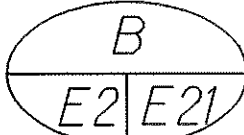
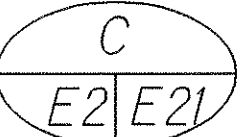
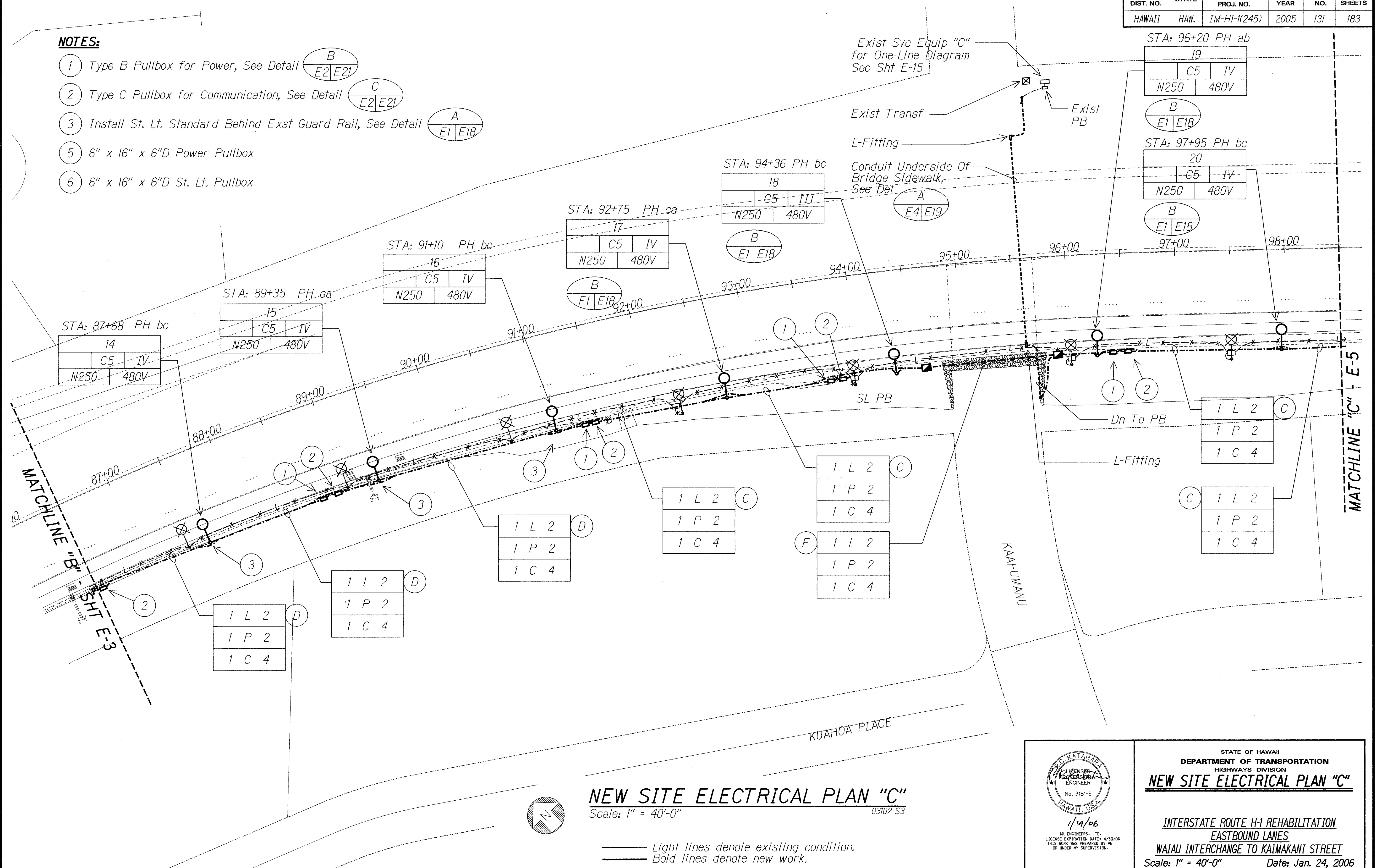


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(245)	2005	131	183

NOTES:

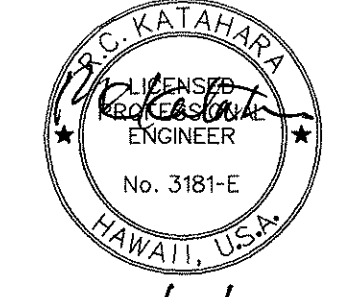
- 1 Type B Pullbox for Power, See Detail 
- 2 Type C Pullbox for Communication, See Detail 
- 3 Install St. Lt. Standard Behind Exst Guard Rail, See Detail 
- 5 6" x 16" x 6"D Power Pullbox
- 6 6" x 16" x 6"D St. Lt. Pullbox



SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
CHECKED BY	

NEW SITE ELECTRICAL PLAN "C"
Scale: 1" = 40'-0"

Light lines denote existing condition.
Bold lines denote new work.



1/19/06
WK ENGINEERS, LTD.
LICENSE EXPIRATION DATE: 4/30/06
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

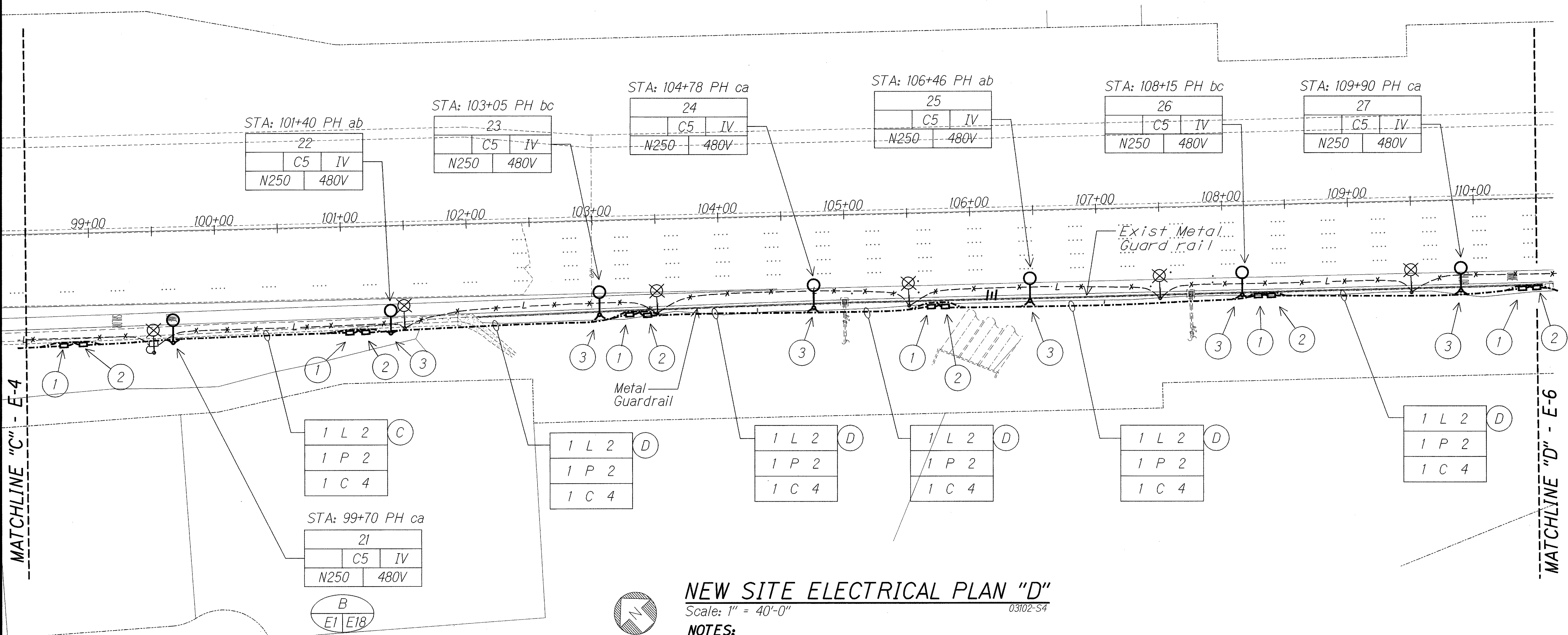
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NEW SITE ELECTRICAL PLAN "C"

INTERSTATE ROUTE H-1 REHABILITATION
EASTBOUND LANES
WAIJU INTERCHANGE TO KAIMAKANI STREET
Scale: 1" = 40'-0" Date: Jan. 24, 2006

SHEET No. E-4 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(245)	2005	132	183



NEW SITE ELECTRICAL PLAN "D"

Scale: 1" = 40'-0" 03102-S4

NOTES:

- Light lines denote existing condition.
- Bold lines denote new work.

NOTES:

- Type B Pullbox for Power, See Detail
- Type C Pullbox for Communication, See Detail
- Install St. Lt. Standard Behind Exst Guard Rail, See Detail
- 6" x 16" x 6"D Power Pullbox
- 6" x 16" x 6"D St. Lt. Pullbox

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	

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WK ENGINEERS, LTD.
LICENSE EXPIRATION DATE: 4/30/06
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

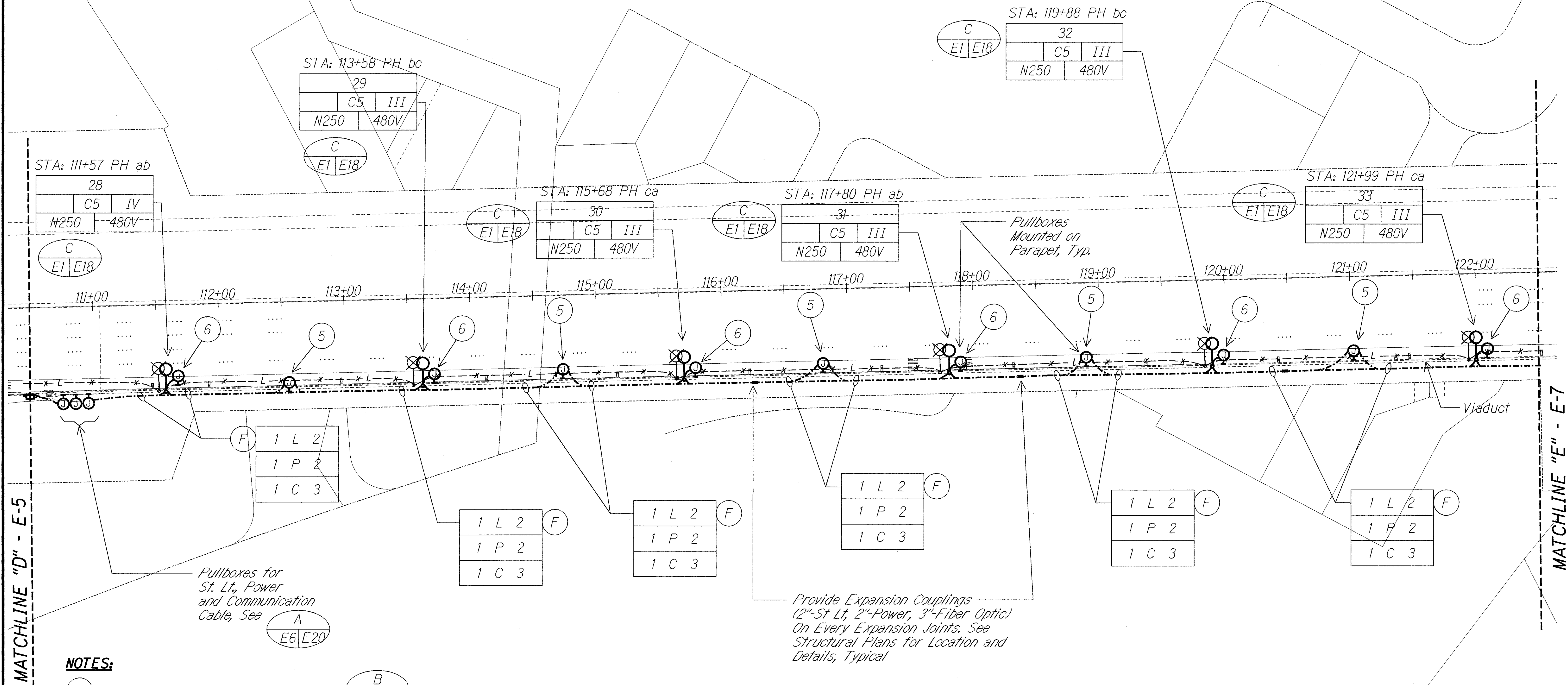
NEW SITE ELECTRICAL PLAN "D"

INTERSTATE ROUTE H-1 REHABILITATION
EASTBOUND LANES
WAI'AU INTERCHANGE TO KAIMAKANI STREET

Scale: 1" = 40'-0" Date: Jan. 24, 2006

SHEET No. E-5 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(245)	2005	133	183



NOTES:

- 1 Type B Pullbox for Power, See Detail B E2/E21
- 2 Type C Pullbox for Communication, See Detail C E2/E21
- 3 Install St. Lt. Standard Behind Exst Guard Rail, See Detail A E1/E18
- 5 6" x 16" x 6"D Power Pullbox
- 6 6" x 16" x 6"D St. Lt. Pullbox

NEW SITE ELECTRICAL PLAN "E"

Scale: 1" = 40'-0" 03102-S5

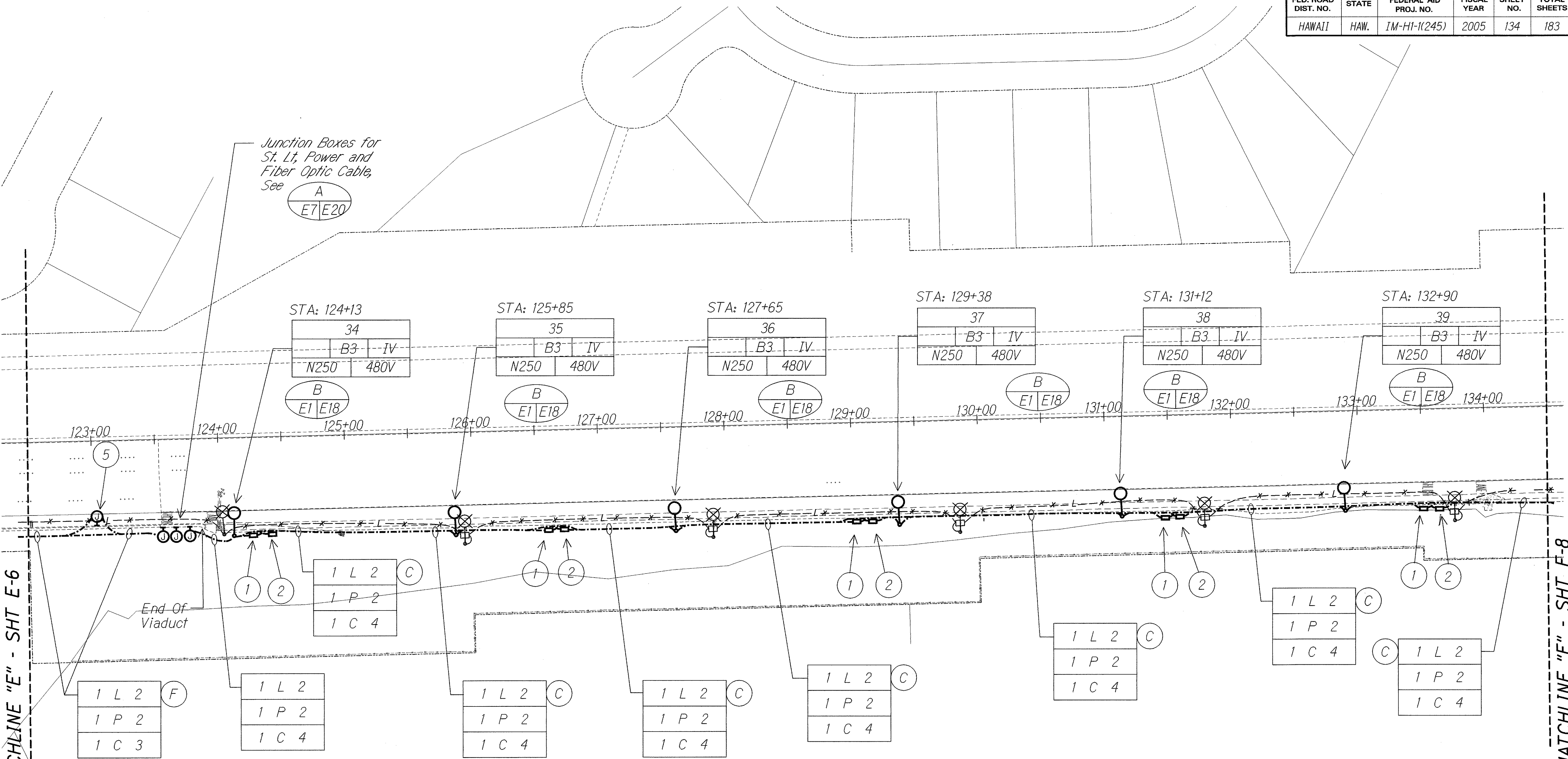
Light lines denote existing condition.
Bold lines denote new work.

M. C. KATAHARA
LICENSED PROFESSIONAL ENGINEER
No. 3181-E
HAWAII, U.S.A.
1/19/06
M. C. ENGINEERS, LTD.
LICENSE EXPIRATION DATE: 4/30/06
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NEW SITE ELECTRICAL PLAN "E"

INTERSTATE ROUTE H-1 REHABILITATION
EASTBOUND LANES
WAI'AU INTERCHANGE TO KAI'IA STREET
Scale: 1" = 40'-0" Date: Jan. 24, 2006
SHEET No. E-6 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(245)	2005	134	183

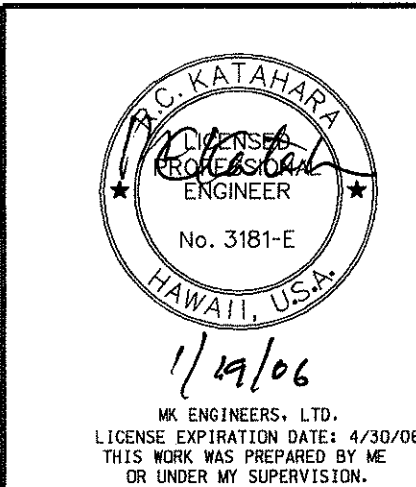


NEW SITE ELECTRICAL PLAN "F"
Scale: 1" = 40'-0"

NOTES:

- 1 Type B Pullbox for Power, See Detail (E2|E21)
- 2 Type C Pullbox for Communication, See Detail (E2|E21)
- 3 Install St. Lt. Standard Behind Exst Guard Rail, See Detail (E1|E18)
- 5 6" x 16" x 6"D Power Pullbox
- 6 6" x 16" x 6"D St. Lt. Pullbox

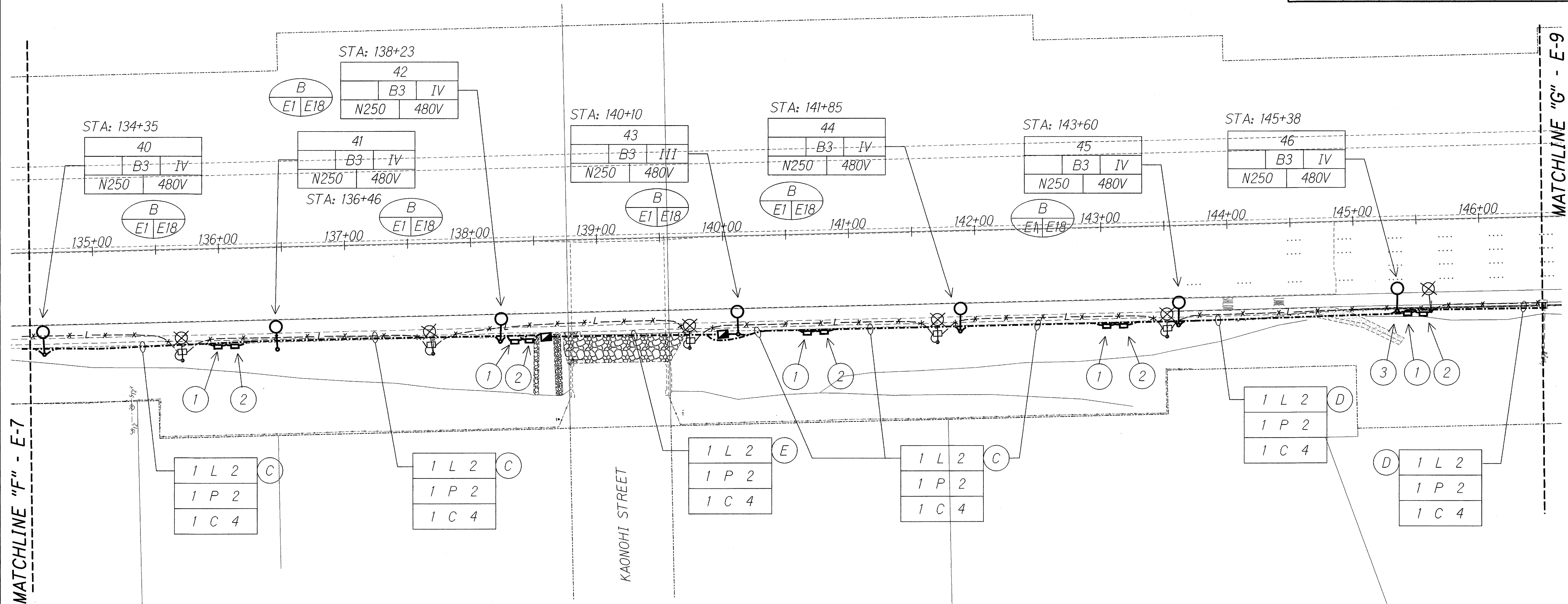
Light lines denote existing condition.
Bold lines denote new work.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NEW SITE ELECTRICAL PLAN "F"
INTERSTATE ROUTE H-1 REHABILITATION
EASTBOUND LANES
WAI'AU INTERCHANGE TO KAIMAKANI STREET
Scale: 1" = 40'-0" Date: Jan. 24, 2006

SHEET No. E-7 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(245)	2005	135	183



NEW SITE ELECTRICAL PLAN "G"
Scale: 1" = 40'-0"

Light lines denote existing condition.
Bold lines denote new work.

NOTES:

- 1 Type B Pullbox for Power, See Detail
- 2 Type C Pullbox for Communication, See Detail
- 3 Install St. Lt. Standard Behind Exst Guard Rail, See Detail
- 5 6" x 16" x 6"D Power Pullbox
- 6 6" x 16" x 6"D St. Lt. Pullbox

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NOTE BOOK	
CHECKED BY	
N.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

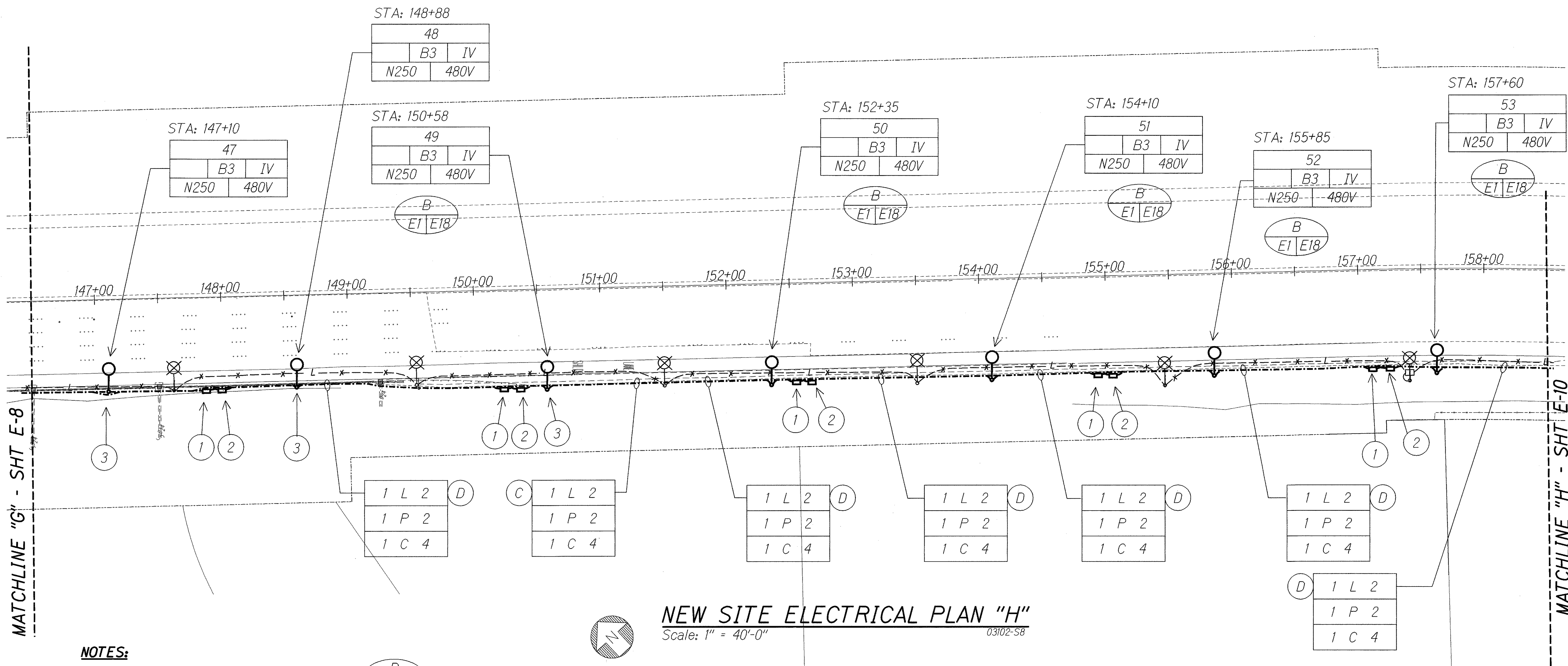
NEW SITE ELECTRICAL PLAN "G"

INTERSTATE ROUTE H-1 REHABILITATION
EASTBOUND LANES
WAIJU INTERCHANGE TO KAIMAKANI STREET

Scale: 1" = 40'-0" Date: Jan. 24, 2006

SHEET No. E-8 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(245)	2005	136	183



NEW SITE ELECTRICAL PLAN "H"
Scale: 1" = 40'-0" 03102-S8

Light lines denote existing condition.
Bold lines denote new work.

NOTES:

- 1 Type B Pullbox for Power, See Detail
- 2 Type C Pullbox for Communication, See Detail
- 3 Install St. Lt. Standard Behind Exst Guard Rail, See Detail
- 5 6" x 16" x 6"D Power Pullbox
- 6 6" x 16" x 6"D St. Lt. Pullbox

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	
NOTE BOOK	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NEW SITE ELECTRICAL PLAN "H"

INTERSTATE ROUTE H-1 REHABILITATION
EASTBOUND LANES
WAIJU INTERCHANGE TO KAIMAKANI STREET
Scale: 1" = 40'-0" Date: Jan. 24, 2006
SHEET No. E-9 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(245)	2005	137	183

NOTES:

- 1

Type B Pullbox for Power, See Detail

B

E2

E21
- 2

Type C Pullbox for Communication, See Detail

C

E2

E21
- 3

Install St. Lt. Standard Behind Exst Guard Rail, See Detail

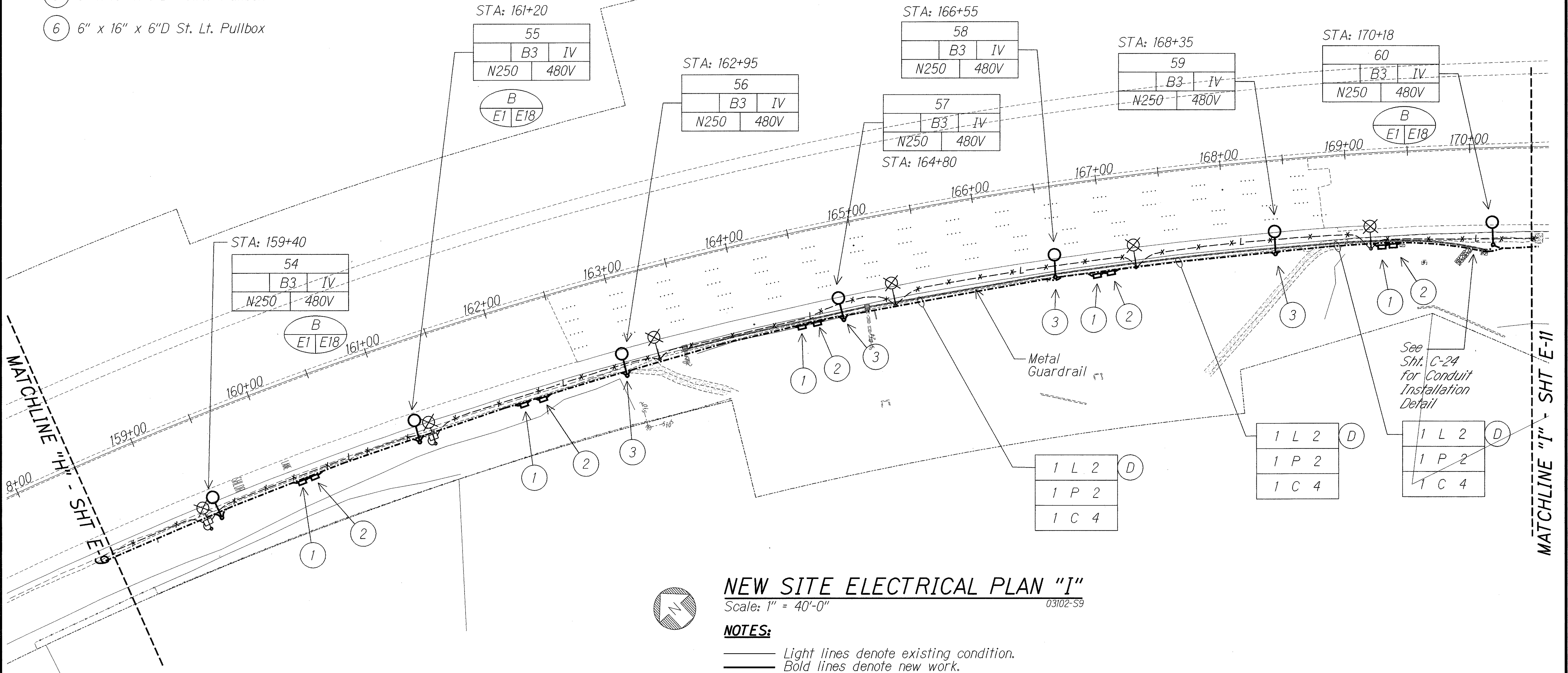
A

E1

E18
- 5

6" x 16" x 6"D Power Pullbox
- 6

6" x 16" x 6"D St. Lt. Pullbox



NEW SITE ELECTRICAL PLAN "I"

Scale: 1" = 40'-0"

03102-S9

NOTES:

- Light lines denote existing condition.
- Bold lines denote new work.

SURVEY PLOTTED BY	DATE
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WE ENGINEERS, LTD.

LICENSE EXPIRATION DATE: 4/30/06

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STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

NEW SITE ELECTRICAL PLAN "I"

INTERSTATE ROUTE H-1 REHABILITATION

EASTBOUND LANES

WAI'AU INTERCHANGE TO KAIMAKANI STREET

Scale: 1" = 40'-0" Date: Jan. 24, 2006

SHEET No. E-10 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(245)	2005	138	183

MAHIKO PL

MATCHLINE "J" - SHT E-12

MATCHLINE "I" - SHT E-10

Exist Lighting Service Equip "B"
See Sheet E-14
for One-Line Diagram

Exist 2-2
(1-2" Empty)

Penetrate
Exist Ltg
Pullbox

See Sht. C-24
for Conduit
Installation
Detail

STA: 176+95

64
B4 IV
N250 480V

STA: 175+29

63
B4 IV
N250 480V

STA: 178+65

65
B4 IV
N250 480V

STA: 180+26

66
B4 IV
N250 480V

STA: 181+88

67
B4 IV
N250 480V

STA: 171+80

61
B4 IV
N250 480V

STA: 173+53

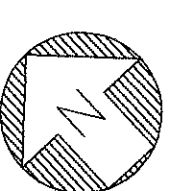
62
B4 IV
N250 480V

Metal
Guard Rail

NEW SITE ELECTRICAL PLAN "J"

Scale: 1" = 40'-0"

03102-S10



Light lines denote existing condition.
Bold lines denote new work.

NOTES:

- 1 Type B Pullbox for Power, See Detail
- 2 Type C Pullbox for Communication, See Detail
- 3 Install St. Lt. Standard Behind Exst Guard Rail, See Detail
- 5 6" x 16" x 6"D Power Pullbox
- 6 6" x 16" x 6"D St. Lt. Pullbox

1 L 2
1 P 2
1 C 4

1 L 2
1 P 2
1 C 4

1 L 2
1 P 2
1 C 4

1 L 2
1 P 2
1 C 4

1 L 2
1 P 2
1 C 4

1 L 2
1 P 2
1 C 4

1 L 2
1 P 2
1 C 4

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DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

1/19/06
HW ENGINEERS, LTD.
LICENSE EXPIRATION DATE: 4/30/06
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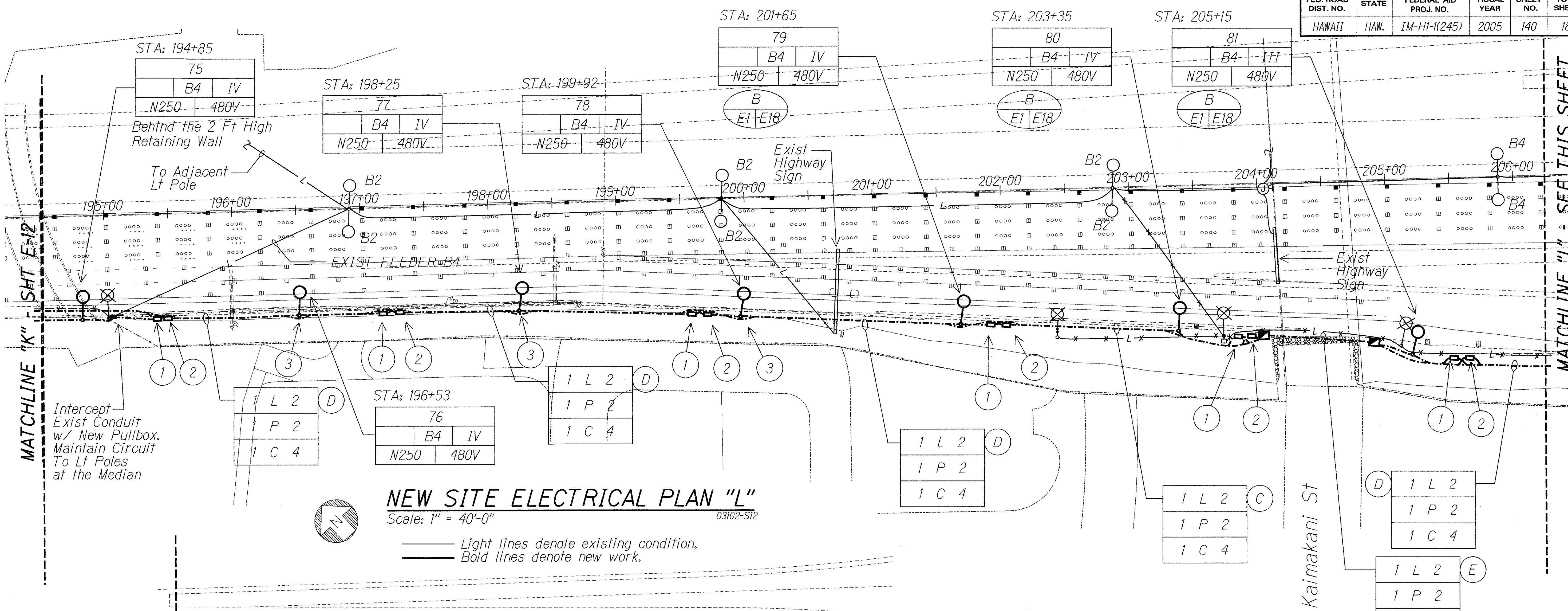
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NEW SITE ELECTRICAL PLAN "J"

INTERSTATE ROUTE H-1 REHABILITATION
EASTBOUND LANES
WAI'AU INTERCHANGE TO KAIMAKANI STREET
Scale: 1" = 40'-0" Date: Jan. 24, 2006

SHEET No. E-11 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(245)	2005	140	183

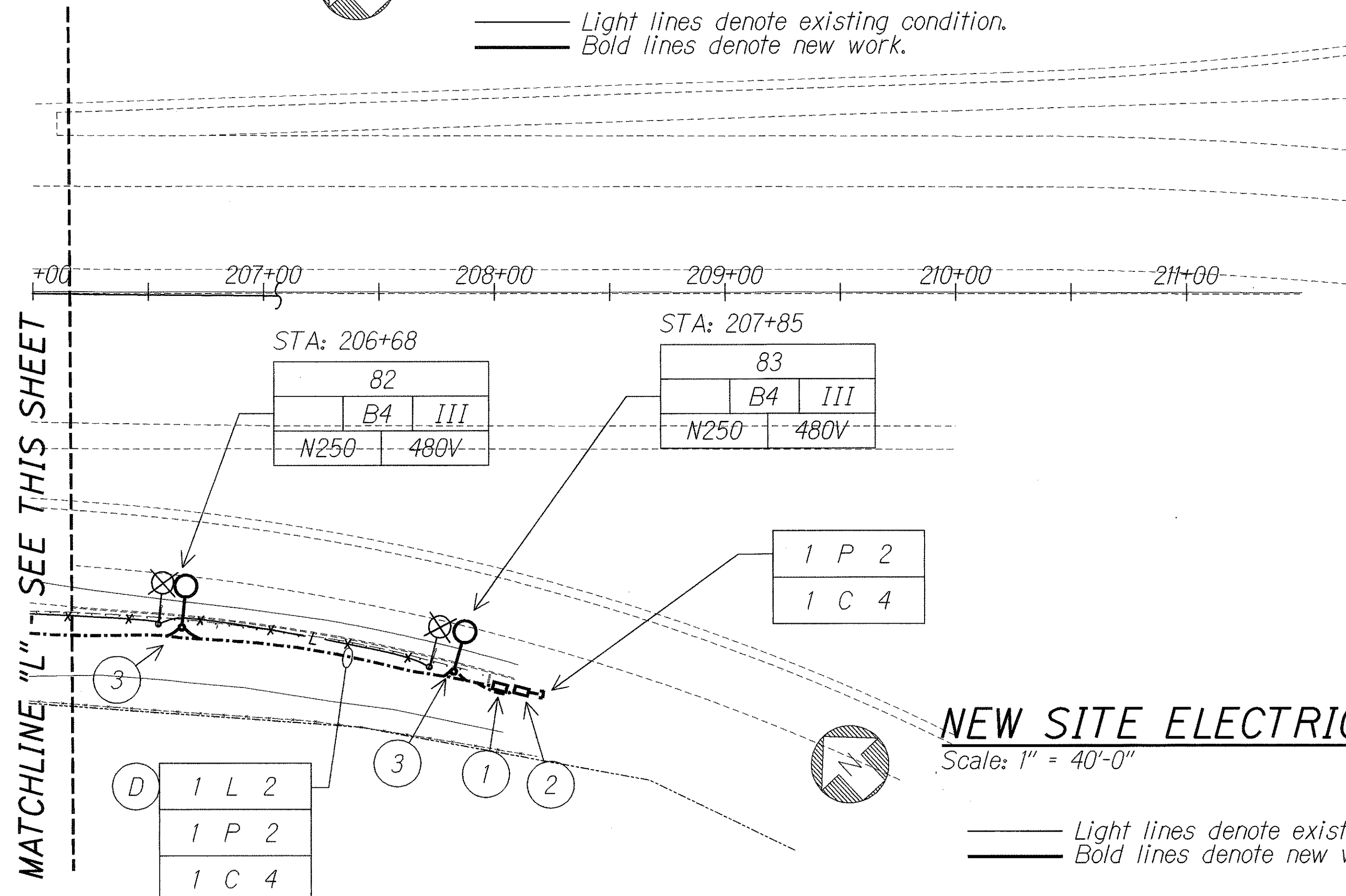


NEW SITE ELECTRICAL PLAN "L"
Scale: 1" = 40'-0"

Light lines denote existing condition.
Bold lines denote new work.

NOTES:

- 1 Type B Pullbox for Power, See Detail
- 2 Type C Pullbox for Communication, See Detail
- 3 Install St. Lt. Standard Behind Exst Guard Rail, See Detail
- 5 6" x 16" x 6"D Power Pullbox
- 6 6" x 16" x 6"D St. Lt. Pullbox



NEW SITE ELECTRICAL PLAN "M"
Scale: 1" = 40'-0"

Light lines denote existing condition.
Bold lines denote new work.

SURVEY PLOTTED BY	DATE
DRAWN BY	
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NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

4/15/06
W. ENGINEERS, LTD.
LICENSE EXPIRATION DATE: 4/30/06
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NEW SITE ELECTRICAL PLANS
"L" & "M"
INTERSTATE ROUTE H-1 REHABILITATION
EASTBOUND LANES
WAI'AU INTERCHANGE TO KAIMAKANI STREET
Scale: 1" = 40'-0" Date: Jan. 24, 2006
SHEET No. E-13 OF 21 SHEETS