

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ELECTRICAL DESIGN

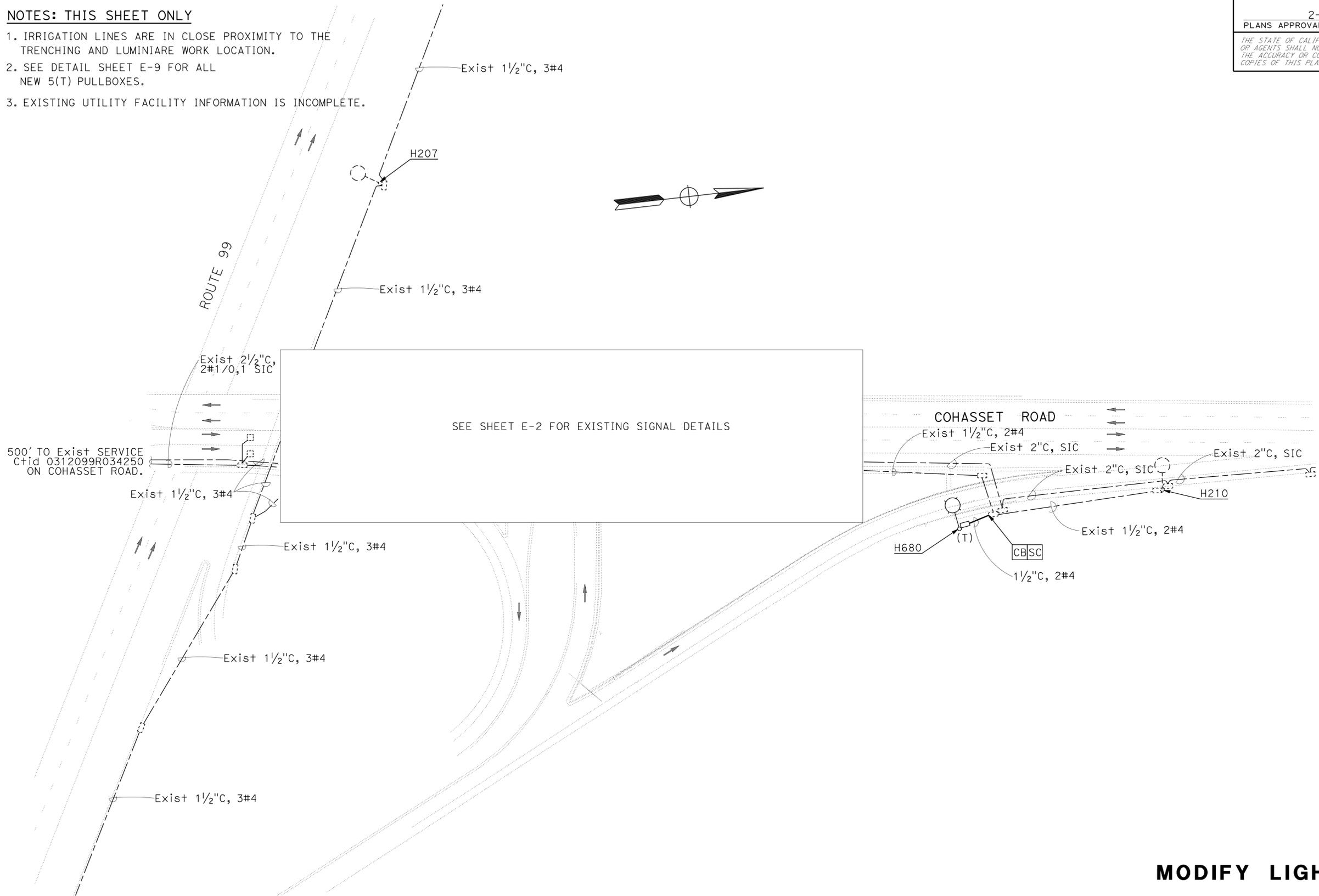
FUNCTIONAL SUPERVISOR: NELSON LEE
 CALCULATED/DESIGNED BY: NATHAN DEKENS
 CHECKED BY: NORMAN S. YE
 REVISED BY: NATHAN DEKENS
 DATE REVISED: [blank]

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

NOTES: THIS SHEET ONLY

- IRRIGATION LINES ARE IN CLOSE PROXIMITY TO THE TRENCHING AND LUMINARE WORK LOCATION.
- SEE DETAIL SHEET E-9 FOR ALL NEW 5(T) PULLBOXES.
- EXISTING UTILITY FACILITY INFORMATION IS INCOMPLETE.



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Bu+	99	R34.2,R36.3	3	24

REGISTERED PROFESSIONAL ENGINEER
 Norman S. Ye
 No. 16913
 Exp. 6-30-15
 ELECTRICAL
 STATE OF CALIFORNIA
 2-2-15
 REGISTERED ELECTRICAL ENGINEER DATE
 2-2-15
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

MODIFY LIGHTING

SCALE 1" = 50'

2 REPLACED PER ADDENDUM No. 2 DATED MARCH 13, 2015

APPROVED FOR ELECTRICAL WORK ONLY

E-1

LAST REVISION DATE PLOTTED => 10-MAR-2015 02-26-15 TIME PLOTTED => 14:05

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ELECTRICAL DESIGN
 FUNCTIONAL SUPERVISOR
 NELSON LEE
 CALCULATED/DESIGNED BY
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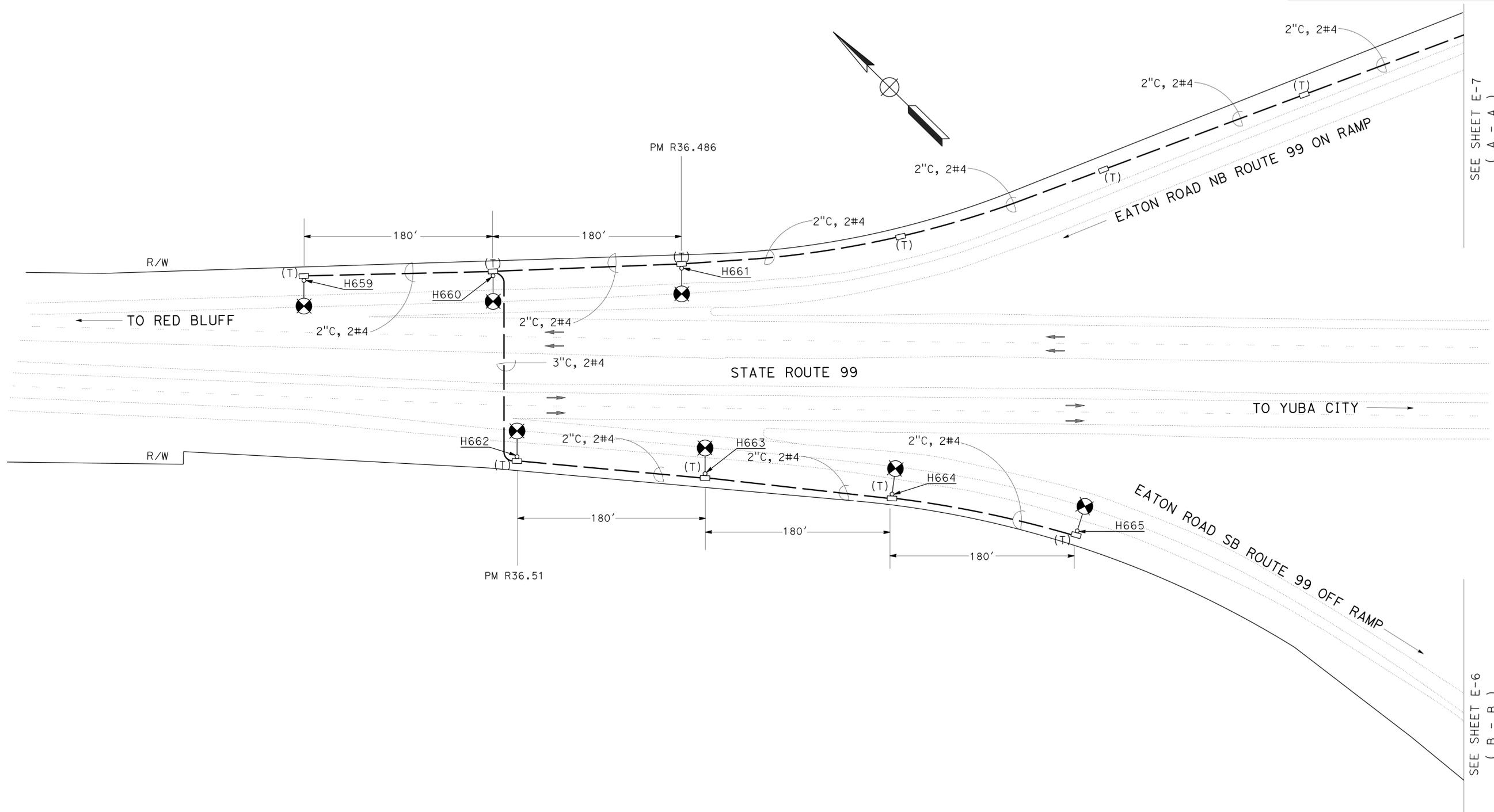
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Bu+	99	R34.2,R36.3	6	24

Norman S. Ye 2-2-15
 REGISTERED ELECTRICAL ENGINEER DATE

2-2-15
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HIGHWAY LIGHTING

SCALE 1" = 50'

2 REPLACED PER ADDENDUM No. 2 DATED MARCH 13, 2015
 APPROVED FOR ELECTRICAL WORK ONLY

E-4

LAST REVISION DATE PLOTTED => 10-MAR-2015 02-26-15 TIME PLOTTED => 14:05

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 NELSON LEE
 CALCULATED/DESIGNED BY
 NATHAN DEKENS
 CHECKED BY
 NORMAN S. YE
 REVISED BY
 DATE
 REVISIONS

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

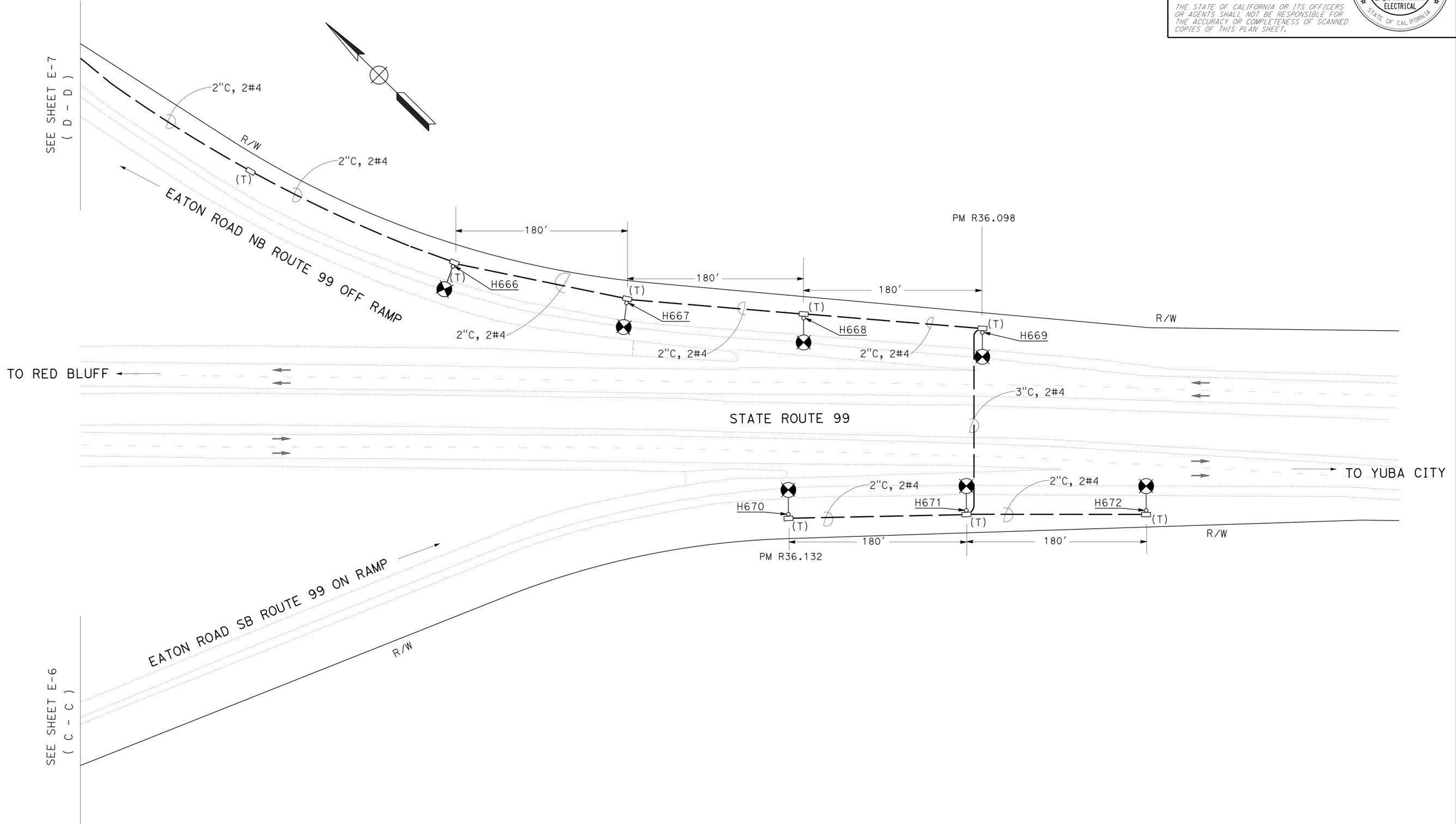
NOTES: THIS SHEET ONLY

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2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Bu+	99	R34.2,R36.3	7	24

REGISTERED ELECTRICAL ENGINEER DATE 2-2-15
 Norman S. Ye
 PLANS APPROVAL DATE 2-2-15
 No. 16913
 Exp. 6-30-15
 ELECTRICAL
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HIGHWAY LIGHTING

SCALE 1" = 50'

2 REPLACED PER ADDENDUM No. 2 DATED MARCH 13, 2015

APPROVED FOR ELECTRICAL WORK ONLY

E-5

LAST REVISION DATE PLOTTED => 10-MAR-2015
 02-26-15 TIME PLOTTED => 14:05

NOTE:

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NOTES: THIS SHEET ONLY

- 1. SEE DETAIL SHEET E-9 FOR ALL NEW 5(T) AND 6(T) PB.
- 2. EXISTING UTILITY FACILITY INFORMATION IS INCOMPLETE.

LEGEND:

- 1 3"C, 2-1/0,1-#2 TO PG&E CONNECTION. TRENCHING, CONDUIT AND FILL PER PG&E REQUIREMENT.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Bu+	99	R34.2,R36.3	8	24

Normanye 2-2-15
 REGISTERED ELECTRICAL ENGINEER DATE
 2-2-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 NORMAN S. YE
 No. 16913
 Exp. 6-30-15
 ELECTRICAL
 STATE OF CALIFORNIA

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SEE SHEET E-4
(B - B)

SEE SHEET E-5
(C - C)

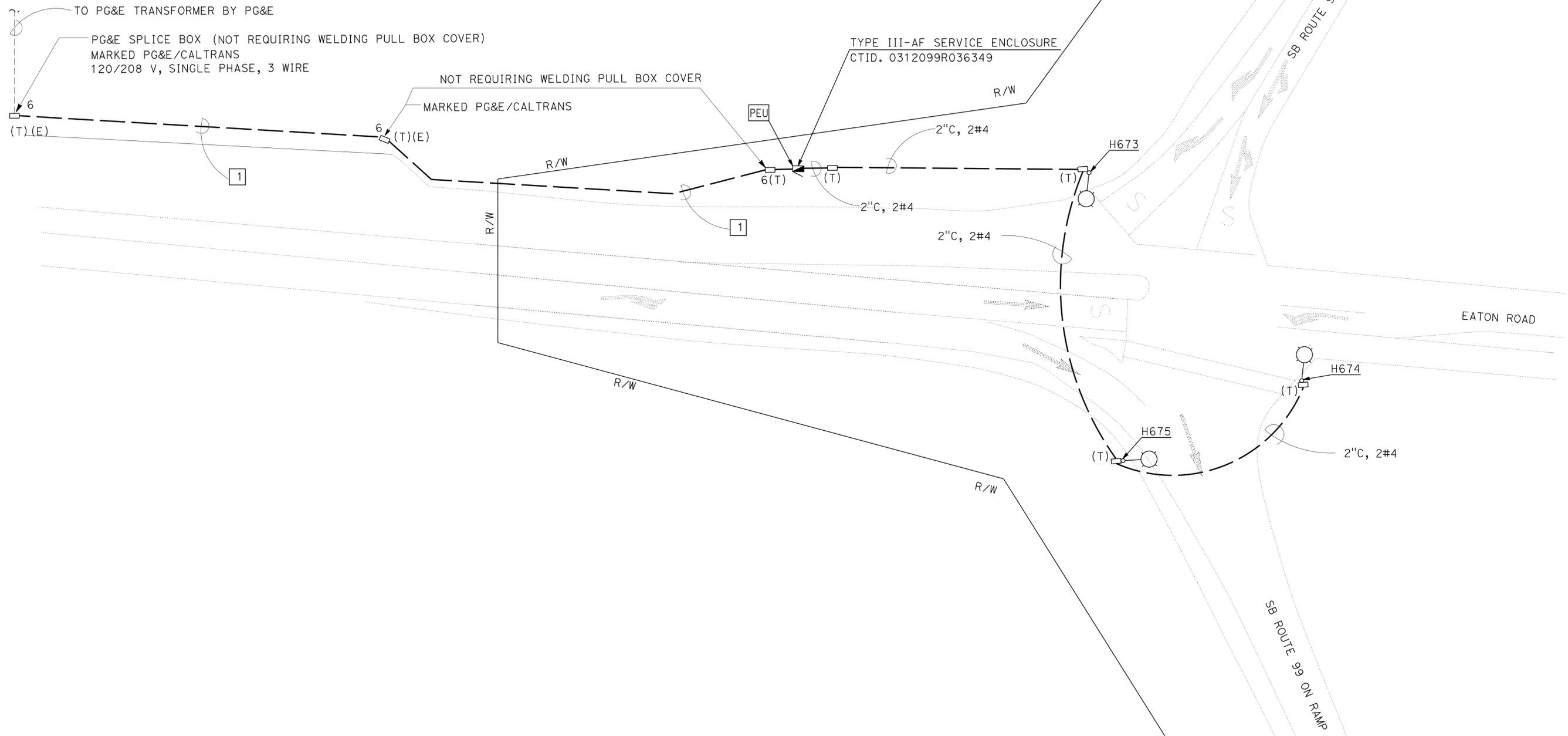
HIGHWAY LIGHTING

SCALE 1"= 20'

E-6

2 REPLACED PER ADDENDUM No. 2 DATED MARCH 13, 2015

APPROVED FOR ELECTRICAL WORK ONLY



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans	NELSON LEE	NATHAN DEKENS	DATE
ELECTRICAL DESIGN		NORMAN S. YE	REVISED
			DATE
			REVISED
			DATE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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 NELSON LEE
 CALCULATED/DESIGNED BY
 NATHAN DEKENS
 CHECKED BY
 NORMAN S. YE
 REVISED BY
 DATE REVISED

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

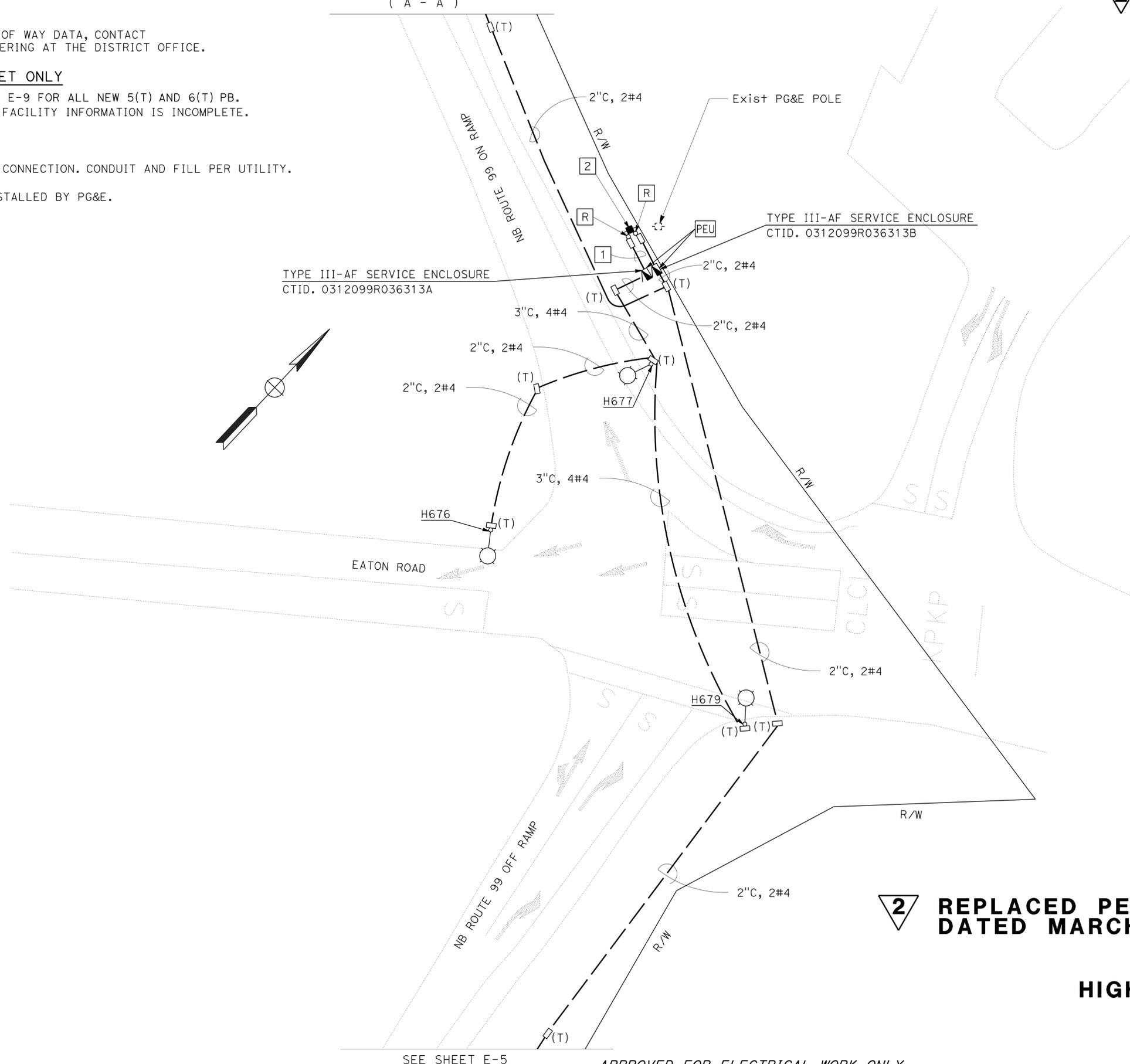
NOTES: THIS SHEET ONLY

1. SEE DETAIL SHEET E-9 FOR ALL NEW 5(T) AND 6(T) PB.
2. EXISTING UTILITY FACILITY INFORMATION IS INCOMPLETE.

LEGEND:

- 1 TO PG&E UTILITY CONNECTION. CONDUIT AND FILL PER UTILITY.
- 2 POLE WILL BE INSTALLED BY PG&E.

SEE SHEET E-4
(A - A)



2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	R34.2,R36.3	9	24

Norman S. Ye 2-2-15
 REGISTERED ELECTRICAL ENGINEER DATE
 2-2-15
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REGISTERED PROFESSIONAL ENGINEER
 NORMAN S. YE
 No. 16913
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 STATE OF CALIFORNIA

2 REPLACED PER ADDENDUM No. 2
 DATED MARCH 13, 2015

HIGHWAY LIGHTING

SCALE 1" = 20'

E-7

SEE SHEET E-5
(D - D)

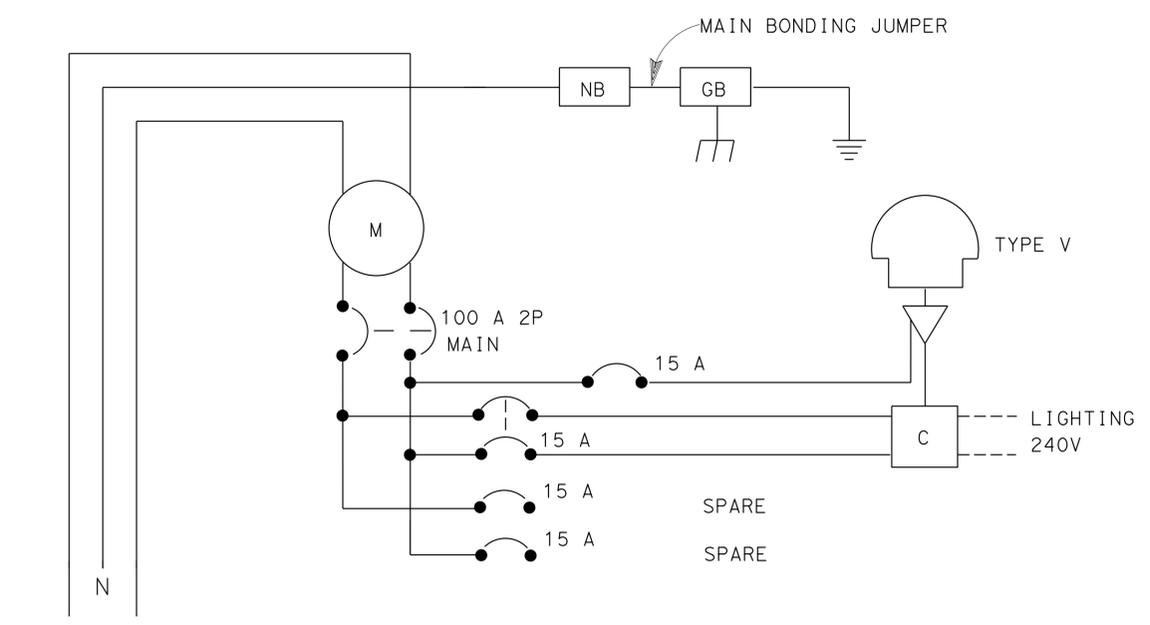
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LAST REVISION DATE PLOTTED => 10-MAR-2015 03-04-15 TIME PLOTTED => 14:05

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 FUNCTIONAL SUPERVISOR: NELSON LEE
 CHECKED BY: NORMAN S. YE
 DESIGNED BY: NATHAN DEKENS
 REVISIONS: (None listed)

2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Bu+	99	R34.2,R36.3	10	24
<i>Normanye</i> REGISTERED ELECTRICAL ENGINEER			2-2-15	DATE	
PLANS APPROVAL DATE			2-2-15		
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REGISTERED PROFESSIONAL ENGINEER NORMAN S. YE No. 16913 Exp. 6-30-15 ELECTRICAL STATE OF CALIFORNIA					

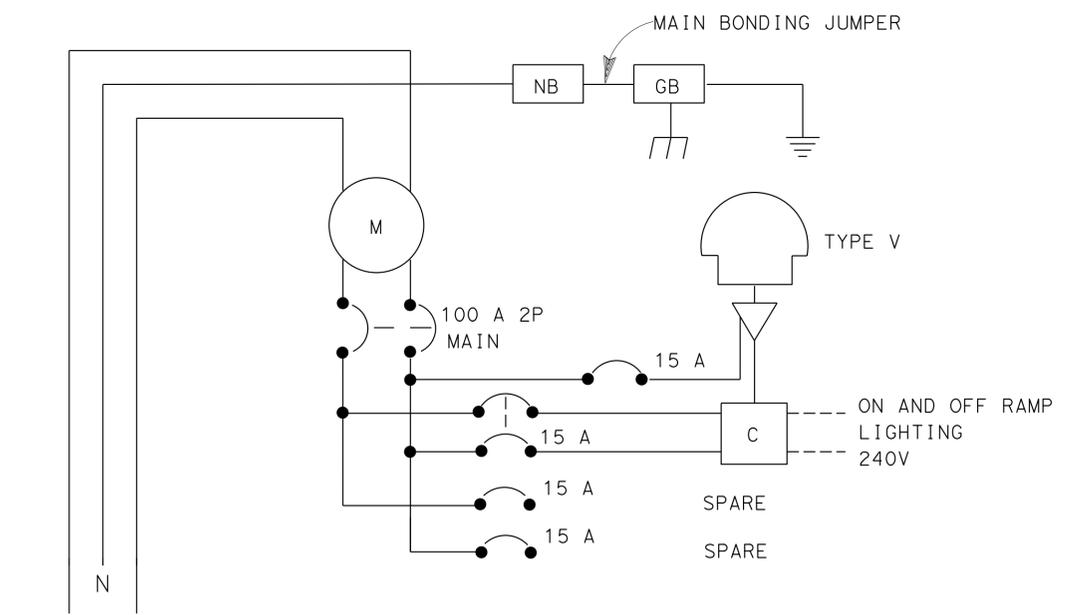


SERVICE WIRING DIAGRAM

CTID NO. 0312099R036349
 LOAD: 3-165 W (LED LIGHTING)

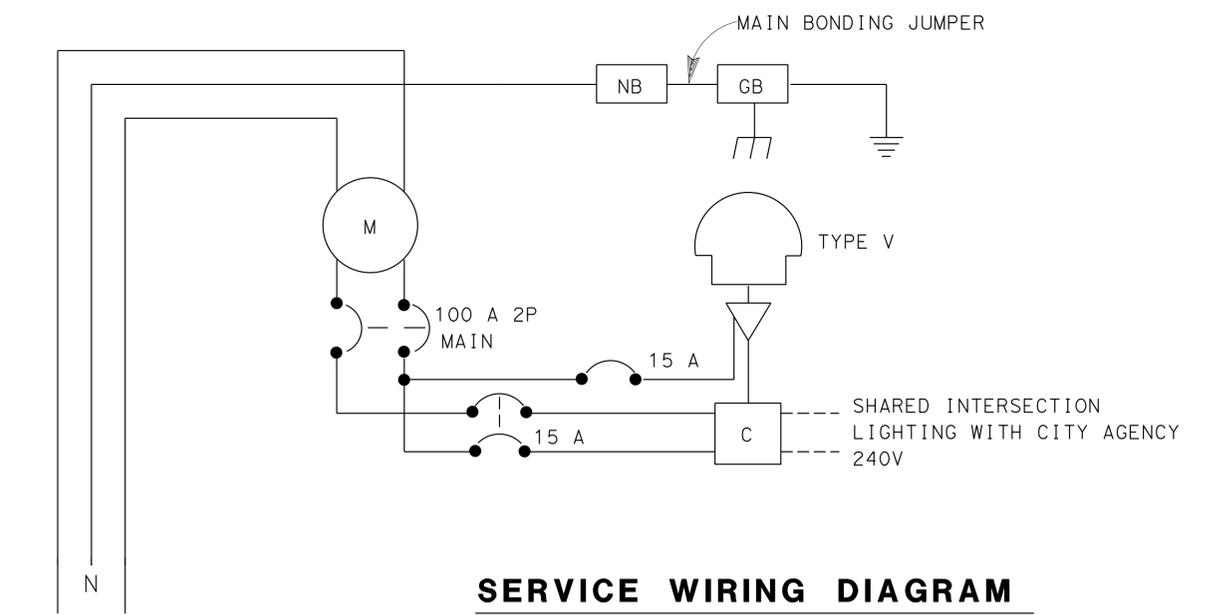
WIRING DIAGRAM LEGEND:

- (M) METER SOCKET AND SUPPORT
- (C) CONTACTOR
- (NB) SOLID NEUTRAL BUS
- ▽ AUTO TEST SWITCH
- ☉ PHOTOELECTRIC UNIT



SERVICE WIRING DIAGRAM

CTID NO. 0312099R036313B
 LOAD: 14-235 W (LED LIGHTING)



SERVICE WIRING DIAGRAM

CTID NO. 0312099R036313A
 LOAD: 3-165 W (LED LIGHTING)

HIGHWAY LIGHTING

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APPROVED FOR ELECTRICAL WORK ONLY

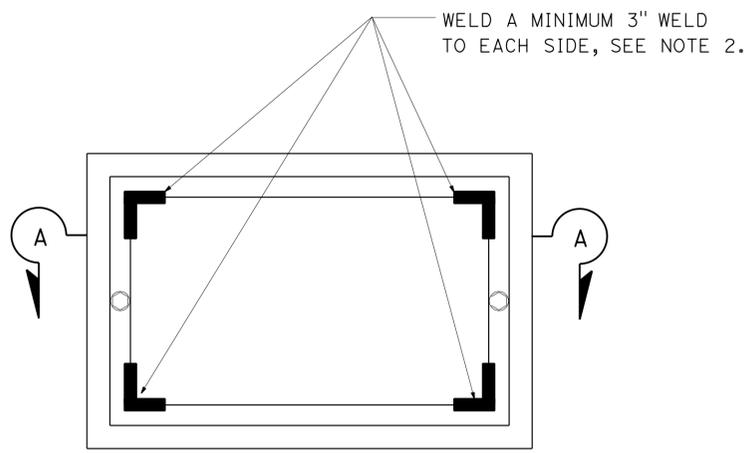
E-8

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03	Bu+	99	R34.2,R36.3	11	24

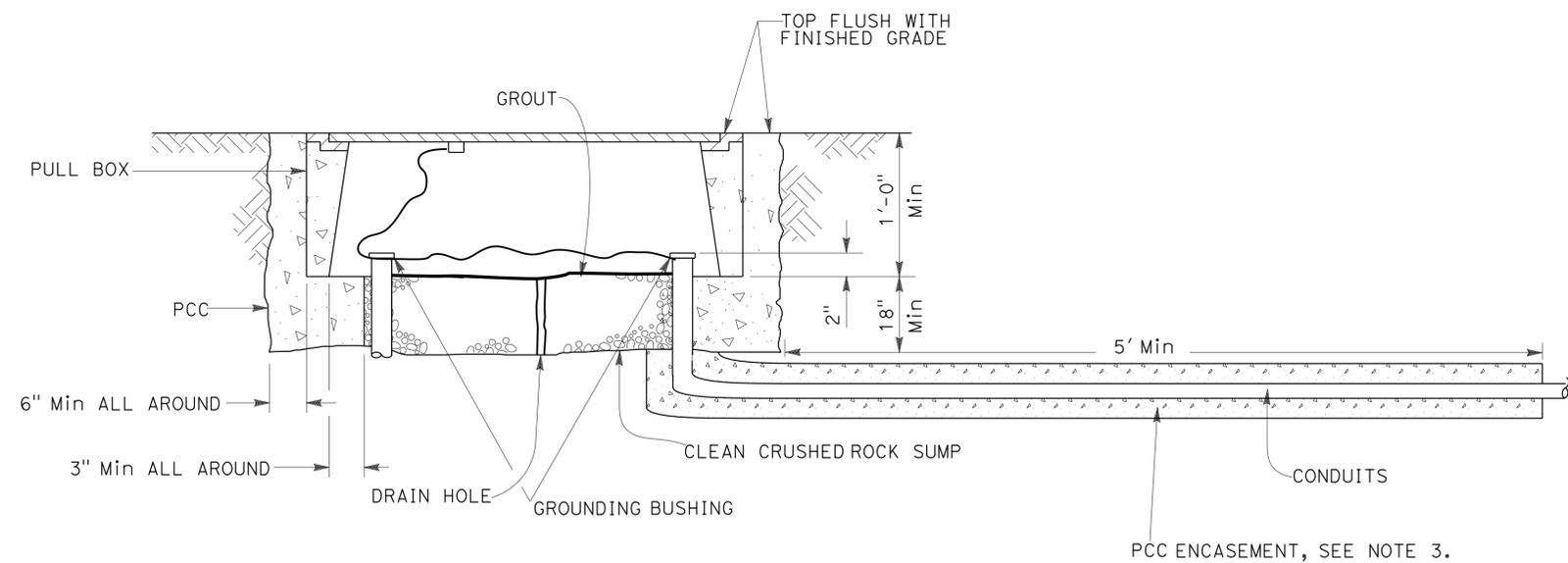
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TOP VIEW

NOTES ON PULL BOXES:

1. THIS DETAIL SUPPLEMENTS REVISED STANDARD PLAN RSP ES-8BS DATED JANUARY 20, 2012. IT IS TO BE USED FOR DISTRICT 3 AND THE NORTH REGION PROJECTS ONLY.
2. ALL WELDING SHALL COMPLY WITH REQUIREMENTS IN STANDARD SPECIFICATION SECTIONS 11, 11-3.01, AND 75.
3. ALL CONDUITS COMING INTO THE PULL BOX SHALL BE ENCASED IN A MIN. 3" ALL AROUND PCC ENCASEMENT. THIS PCC ENCASEMENT SHALL BE EXTENDED A MIN. 5' OUT FROM PULL BOX NORMAL PCC SURROUNDINGS.



SECTION A-A

**No. 5(T) AND No. 6(T)
 TRAFFIC PULL BOX**

HIGHWAY LIGHTING

2

REPLACED PER ADDENDUM No. 2 DATED MARCH 13, 2015

NO SCALE

E-9

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Bu+	99	R34.2,R36.3	12	24

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MODIFY LIGHTING

(COHASSET ROAD)

SHEET No.	No. 5(T) PB	#4 AWG	1 1/2" TYPE 3 CONDUIT	TYPE 15 LUMINAIRE
	EA	FT	FT	EA
E-1	1	50	25	1

HIGHWAY LIGHTING

(EATON ROAD)

SHEET No.	No. 5 PB	No. 5 (T) PB	No. 6 (T) PB	No. 6E (T) PB	2" TYPE 3 CONDUIT	#4 AWG	TYPE 31 LUMINAIRE WITH SLIP BASE	TYPE 15 LUMINAIRE	TYPE III SERVICE PEDESTAL
	EA	EA	EA	EA	FT	FT	EA	EA	EA
E-4		12			2000	4000	7		
E-5		11			2000	4000	7		
E-6		4	1	2	825	1650		3	1
E-7	2	8			750	1500		4	2

NOTE: ITEMS SHOWN IN TABLES ARE NOT SEPERATE PAY ITEMS.

ELECTRICAL QUANTITIES

2 REPLACED PER ADDENDUM No. 2 DATED MARCH 13, 2015

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