
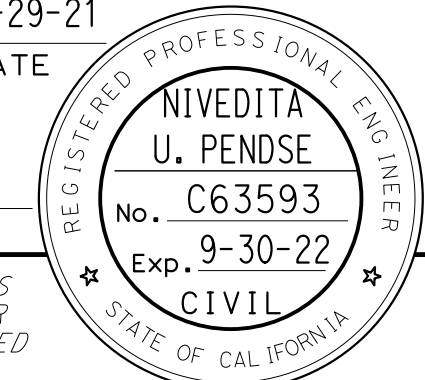
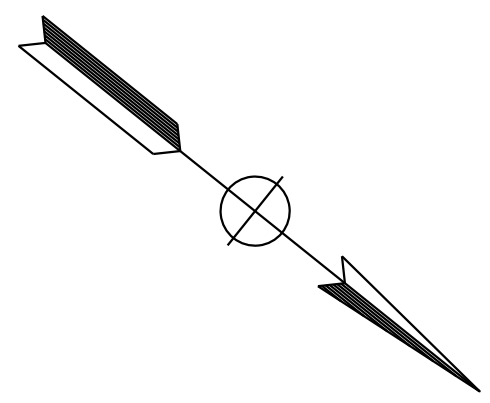
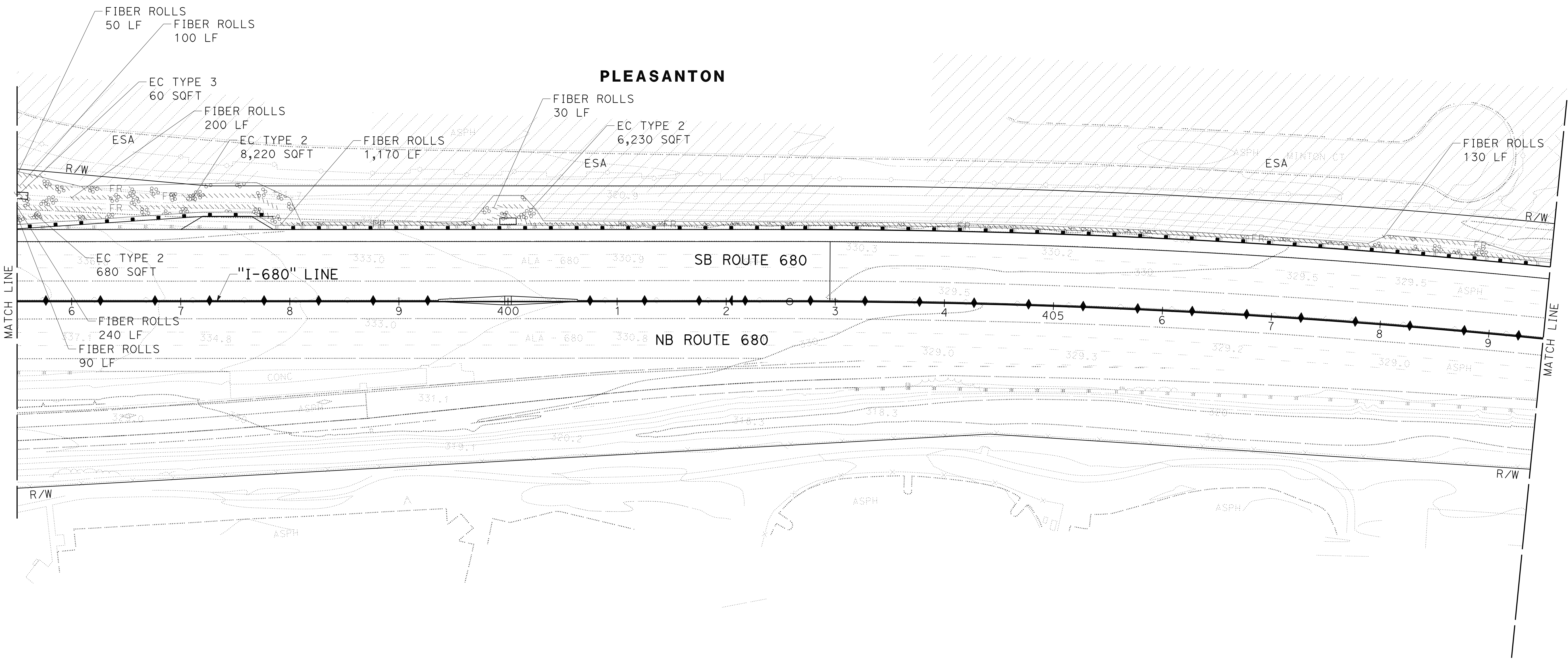


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1101	1710
 REGISTERED CIVIL ENGINEER			9-29-21	DATE	
October 8, 2021 PLANS APPROVAL DATE					
WMH CORPORATION 55 South Market St Suite 1200 San Jose, CA 95113			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		



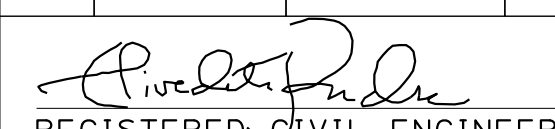
NOTE:
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 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

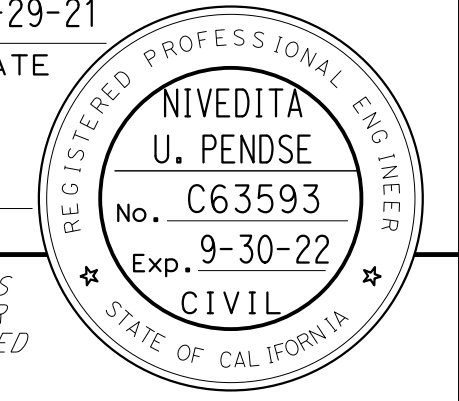


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 CHECKED BY: E. MCPHERSON
 DESIGNED BY: JOYCE RUSHTON
 REVISED BY: JLR
 DATE REVISED: 8-31-21

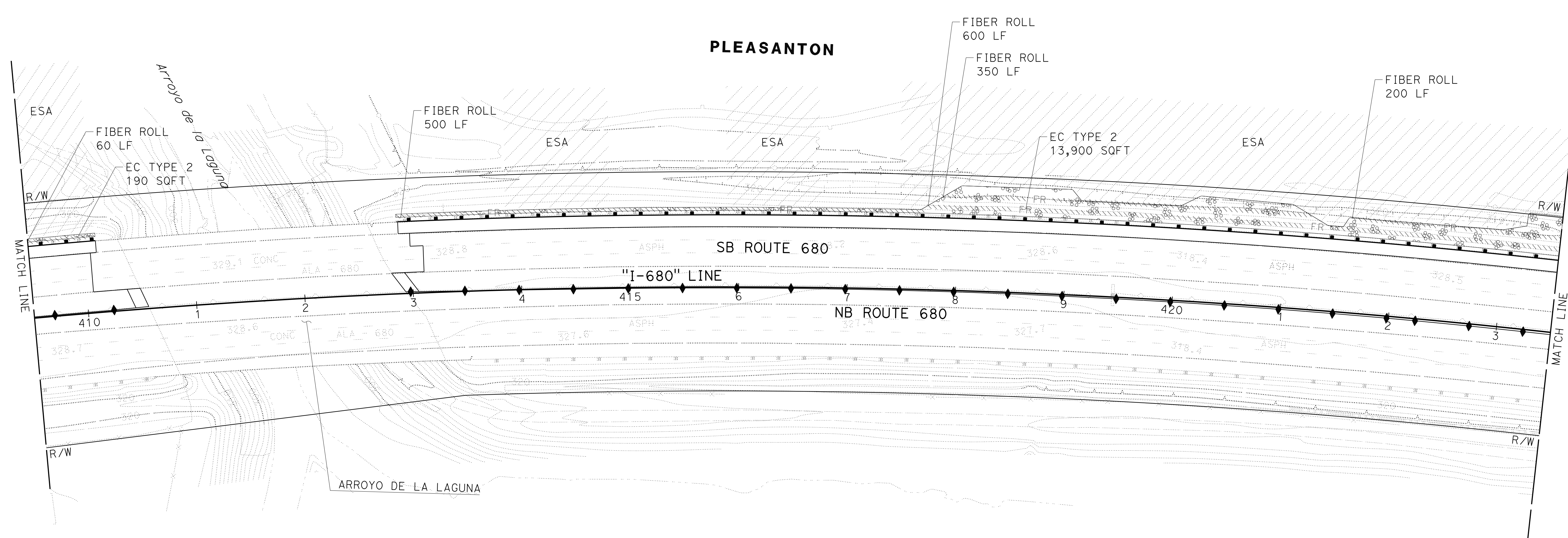
EROSION CONTROL PLAN
 SCALE: 1" = 50'
EC-18

APPROVED FOR EROSION CONTROL WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1102	1710
 REGISTERED CIVIL ENGINEER			9-29-21	DATE	
October 8, 2021			PLANS APPROVAL DATE		
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 DGN FILE => 0420000235\te019.dgn

JOYCE RUSHTON
 E. MCPHERSON
 JLR
 8-31-21
 REVISED BY
 DATE REVISED
 CALCULATED-DESIGNED BY
 CHECKED BY
 TIMOTHY J. LEE
 CONSULTANT FUNCTIONAL SUPERVISOR

EROSION CONTROL PLAN
 SCALE: 1" = 50'
EC-19

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BORDER LAST REVISED 7/2/2010



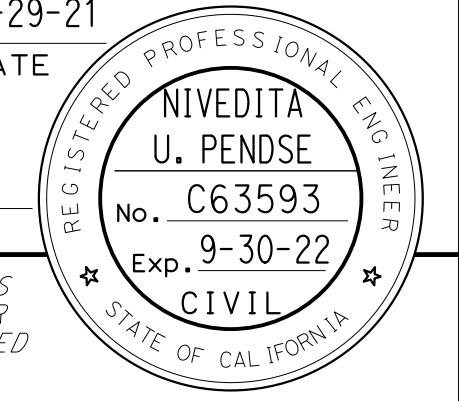
UNIT 0733

PROJECT NUMBER & PHASE

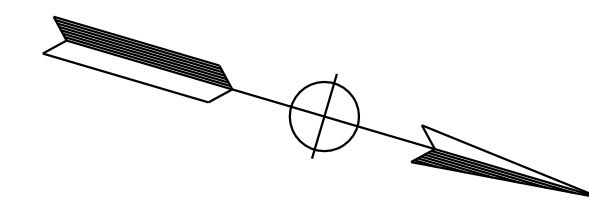
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LAST REVISION DATE PLOTTED => 8-MAR-2022
 09-29-21 TIME PLOTTED => 16:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1103	1710
			9-29-21		
REGISTERED CIVIL ENGINEER			DATE		
			October 8, 2021		
			PLANS APPROVAL DATE		
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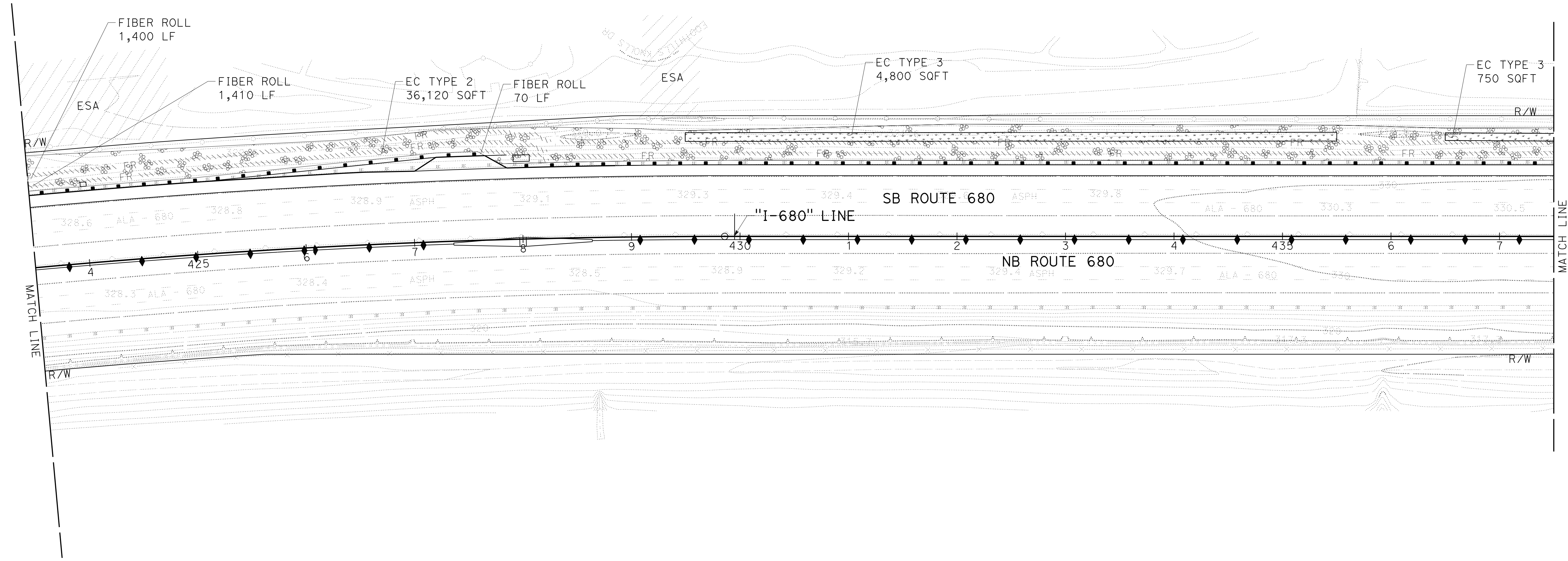


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JOYCE RUSHTON	REVISOR	JLR
E. MCPHERSON	DATE	8-31-21
TIMOTHY J. LEE	DESIGNER	

PLEASANTON




EROSION CONTROL PLAN
SCALE: 1" = 50'
EC-20

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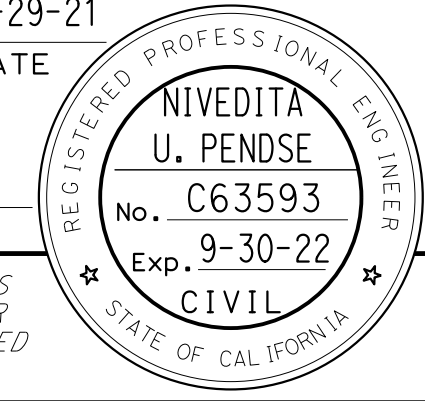
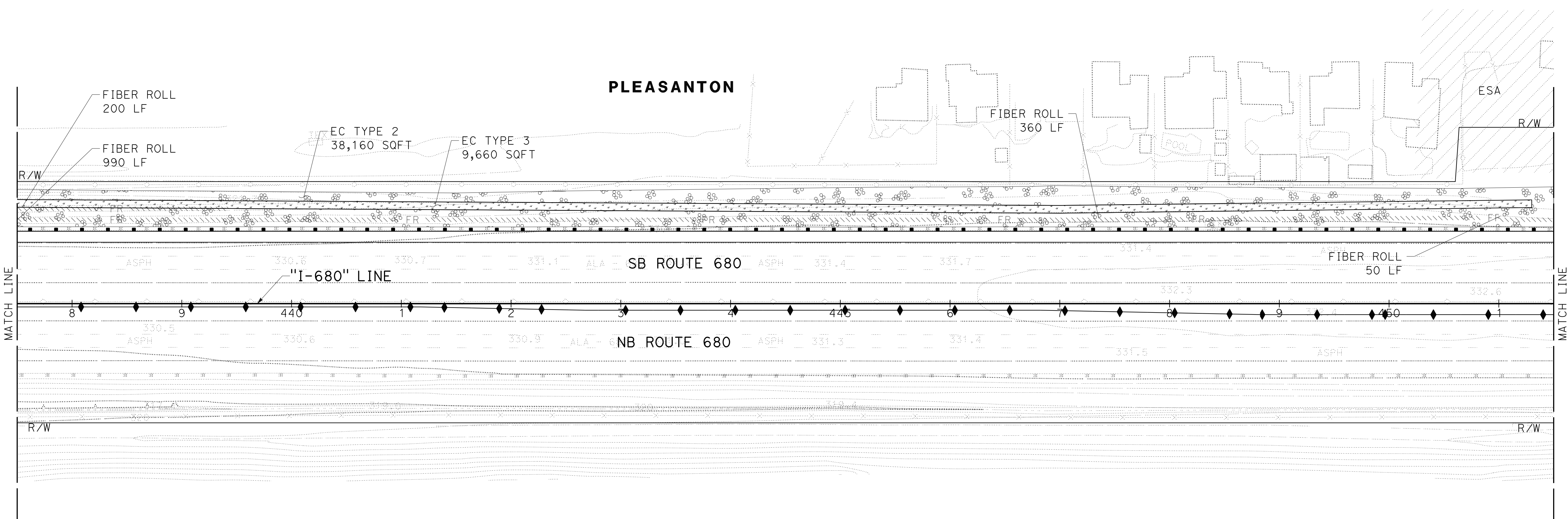
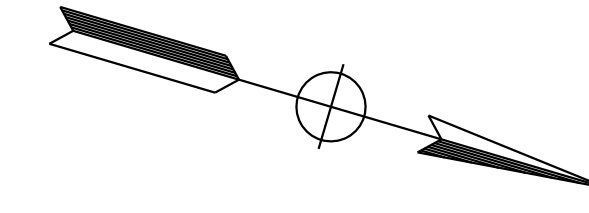
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1104	1710


 REGISTERED CIVIL ENGINEER DATE 9-29-21

October 8, 2021
 PLANS APPROVAL DATE

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 DATE REVISED: 8-31-21

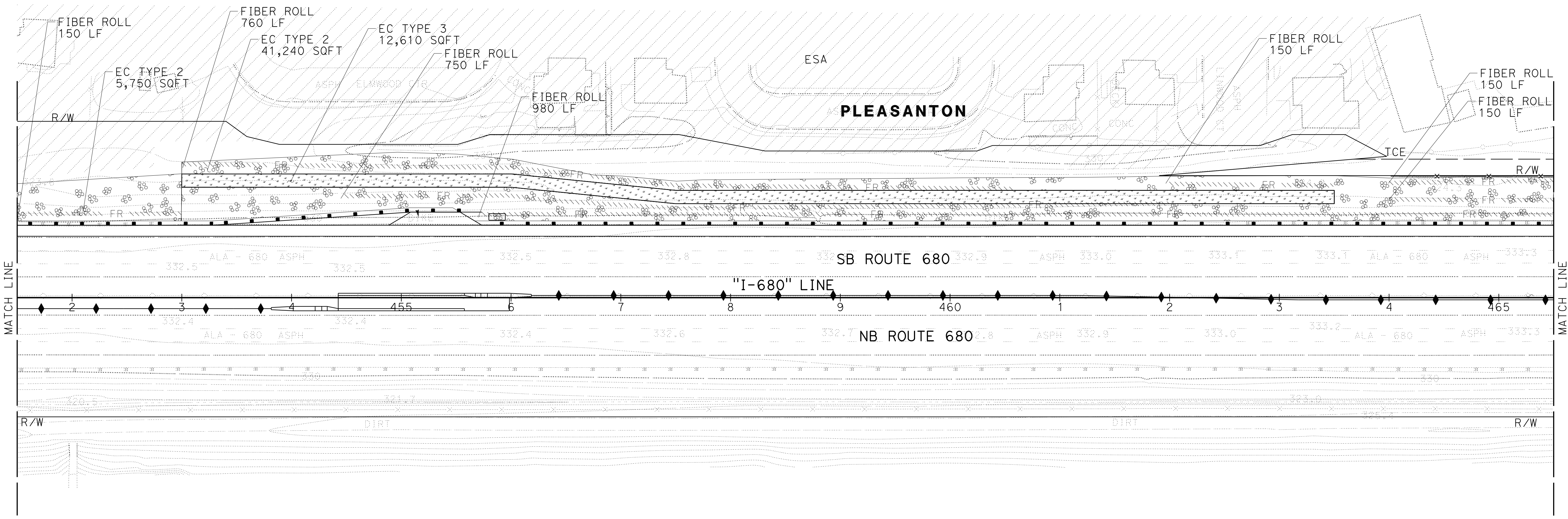
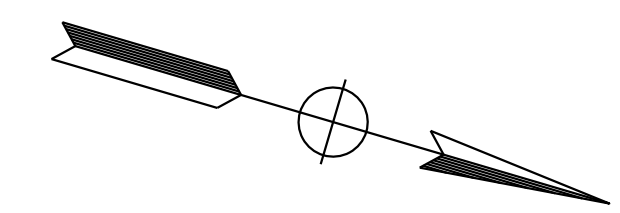
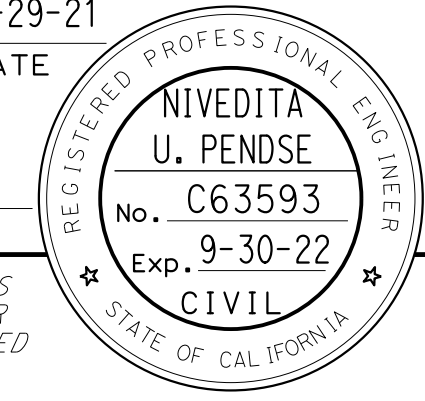
EROSION CONTROL PLAN
SCALE: 1" = 50'
EC-21

APPROVED FOR EROSION CONTROL WORK ONLY

LAST REVISION: DATE PLOTTED => 8-MAR-2022 TIME PLOTTED => 16:35

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1105	1710
			9-29-21		
REGISTERED CIVIL ENGINEER			DATE		
			October 8, 2021		
			PLANS APPROVAL DATE		
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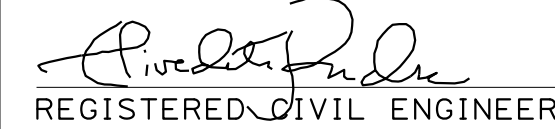


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 DATE REVISED: 8-31-21

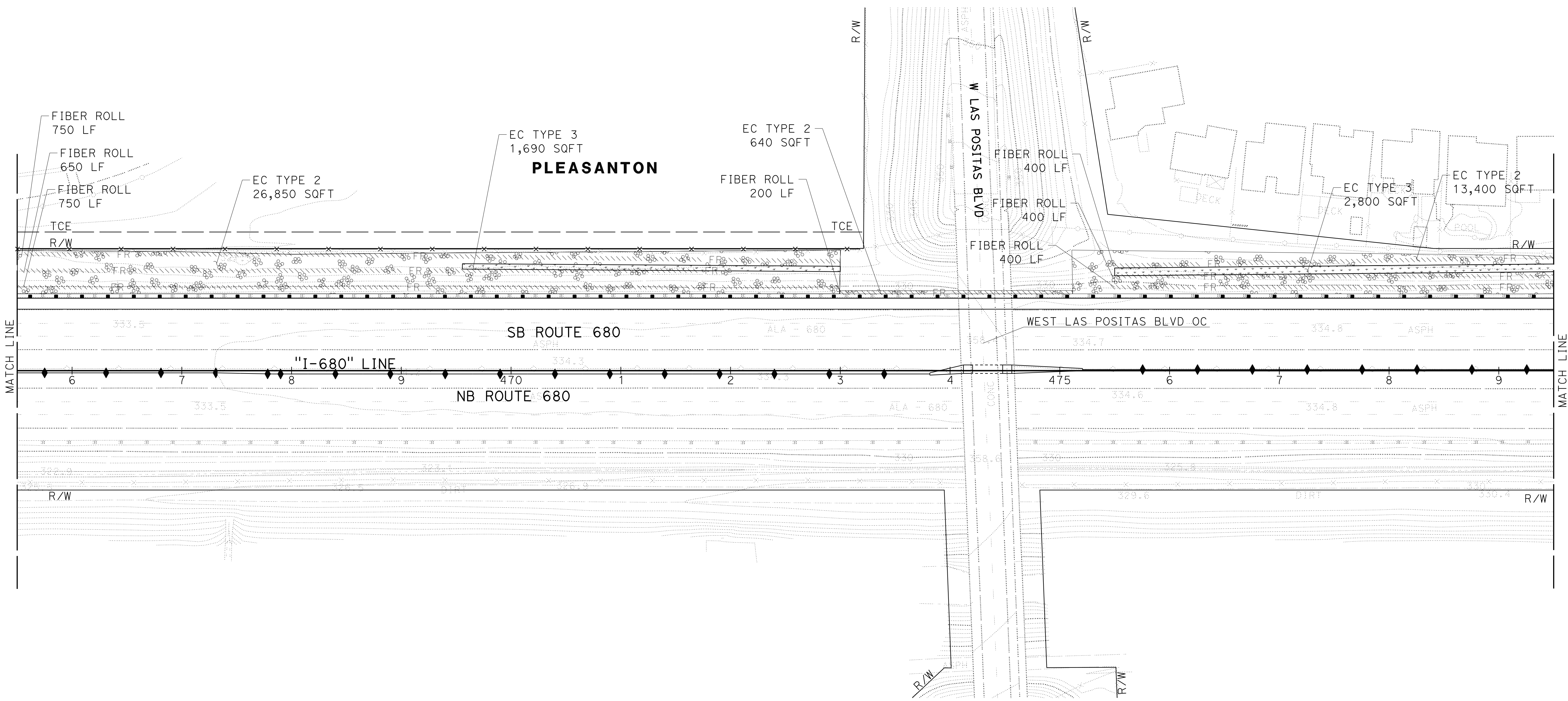
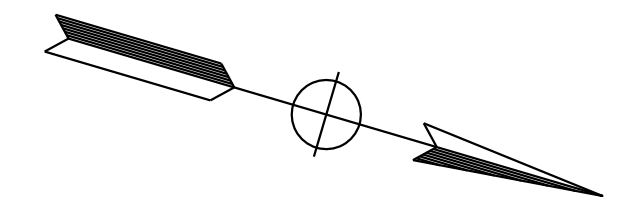
EROSION CONTROL PLAN
SCALE: 1" = 50'
EC-22

APPROVED FOR EROSION CONTROL WORK ONLY

LAST REVISION: 09-29-21 16:35
 DATE PLOTTED: 09-29-21 16:35
 TIME PLOTTED: 09-29-21 16:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1106	1710
 REGISTERED CIVIL ENGINEER			9-29-21	DATE	
October 8, 2021			PLANS APPROVAL DATE		
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RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

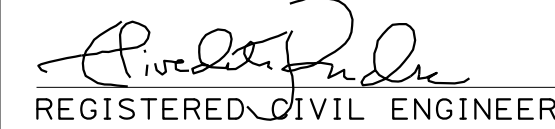


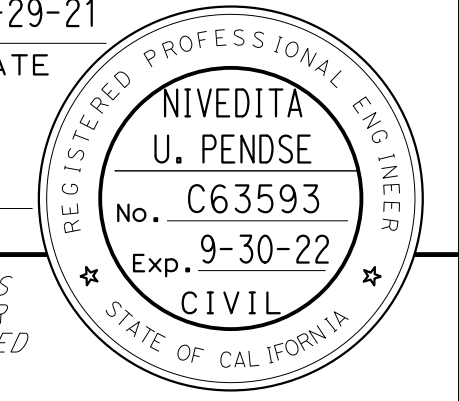
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CONSULTANT: FUNCTIONAL SUPERVISOR: TIMOTHY J. LEE
CALCULATED/DESIGNED BY: JOYCE RUSHTON
CHECKED BY: E. MCPHERSON
REVISED BY: JLR
DATE REVISED: 8-31-21

EROSION CONTROL PLAN
SCALE: 1" = 50'
EC-23

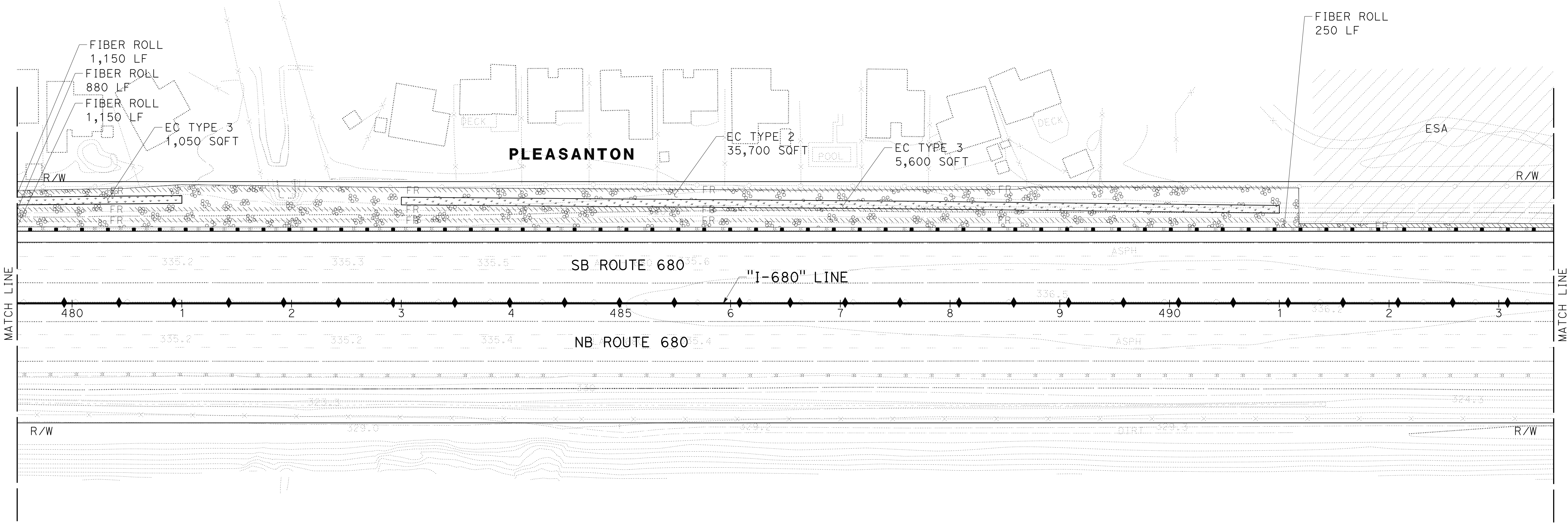
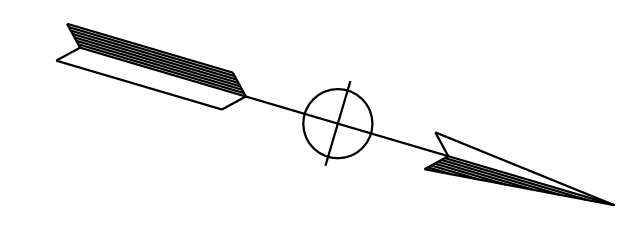
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LAST REVISION: DATE PLOTTED => 8-MAR-2022 TIME PLOTTED => 16:35
09-29-21

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1107	1710
 REGISTERED CIVIL ENGINEER			9-29-21	DATE	
October 8, 2021			PLANS APPROVAL DATE		
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MATCH LINE

MATCH LINE

JOYCE RUSHTON	REVISOR	JLR	8-31-21
E. MCPHERSON	DATE		
TIMOTHY J. LEE	DESIGNER		
	CHECKED BY		
	DESIGNED BY		
	CALCULATED		

EROSION CONTROL PLAN
 SCALE: 1" = 50'
EC-24

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RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

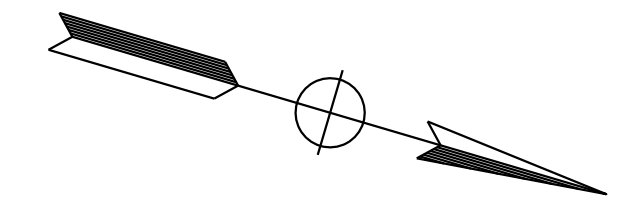
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1108	1710

REGISTERED CIVIL ENGINEER: *Nivedita U. Pendse*
 DATE: 9-29-21
 October 8, 2021
 PLANS APPROVAL DATE

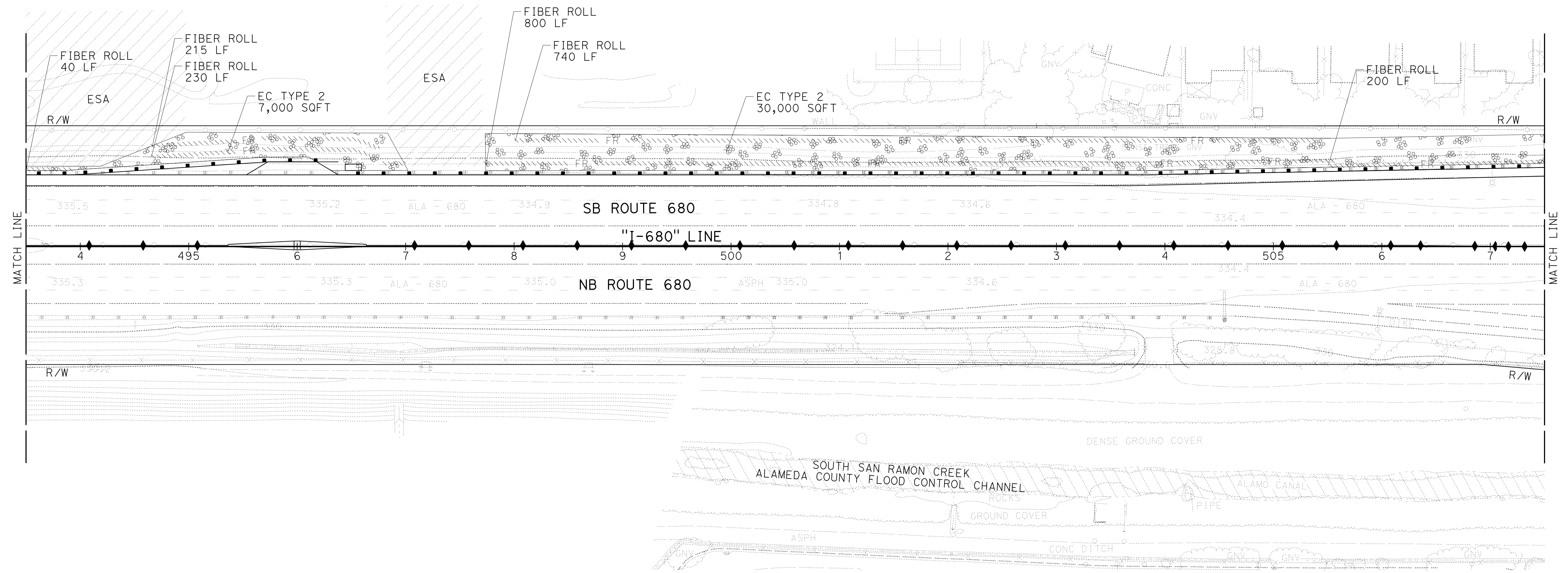
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EROSION CONTROL PLAN
SCALE: 1" = 50'
EC - 25

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RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

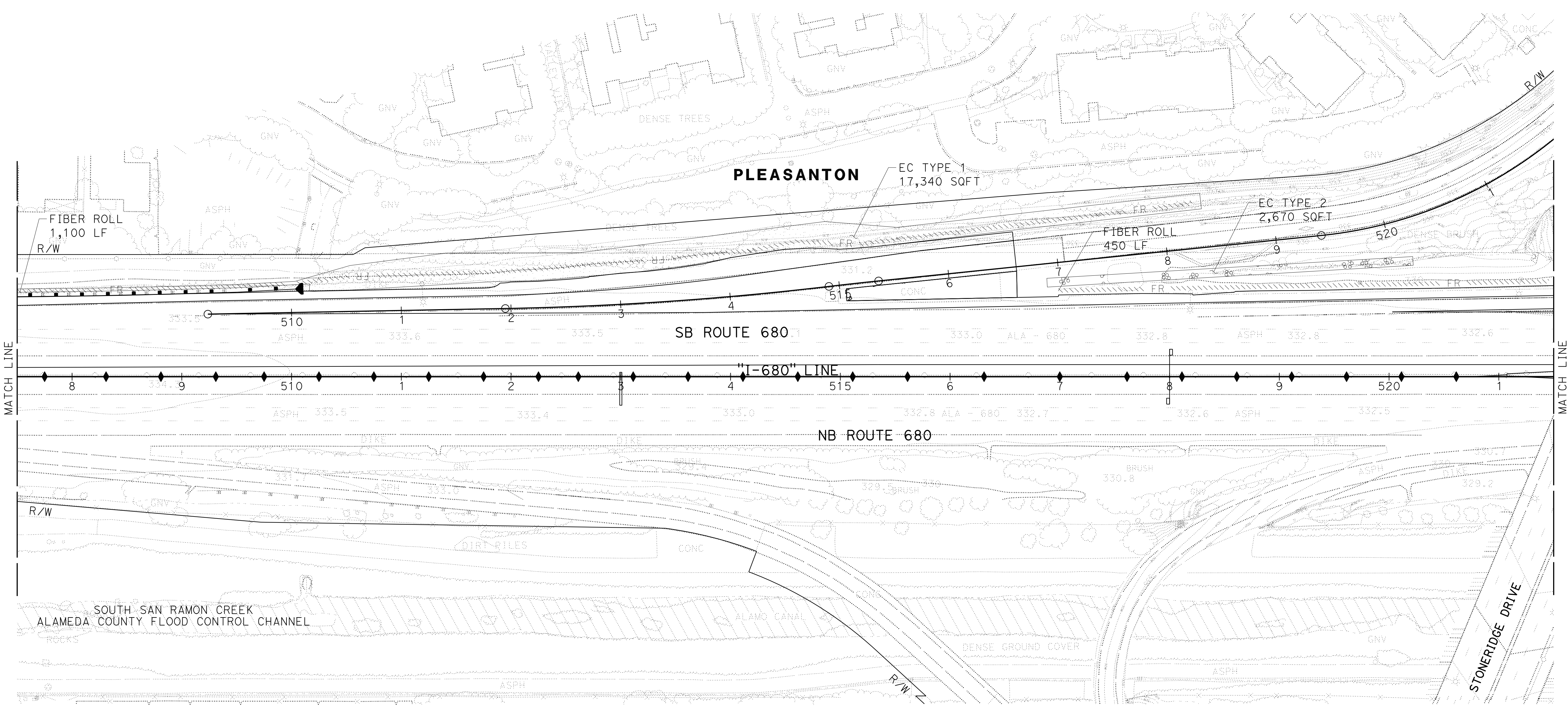
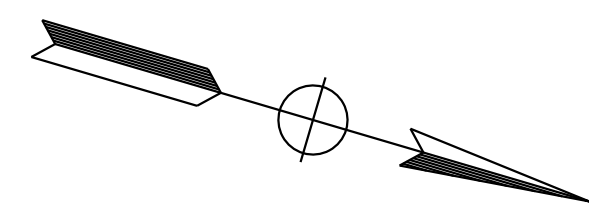
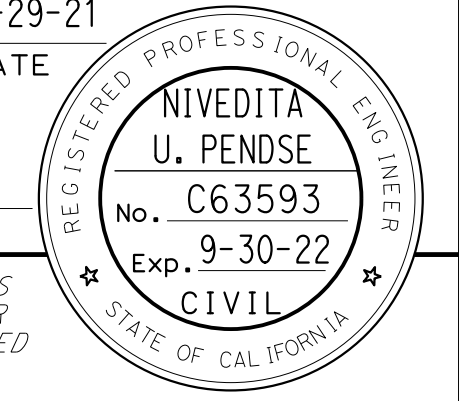
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1109	1710

REGISTERED CIVIL ENGINEER DATE 9-29-21

October 8, 2021
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SOUTH SAN RAMON CREEK
ALAMEDA COUNTY FLOOD CONTROL CHANNEL

STONERIDGE DRIVE

EROSION CONTROL PLAN
SCALE: 1" = 50'
EC-26

APPROVED FOR EROSION CONTROL WORK ONLY

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 09-29-21 TIME PLOTTED => 16:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1110	1710

REGISTERED CIVIL ENGINEER
 DATE 9-29-21
 October 8, 2021
 PLANS APPROVAL DATE

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 No. C63593
 Exp. 9-30-22
 CIVIL
 STATE OF CALIFORNIA

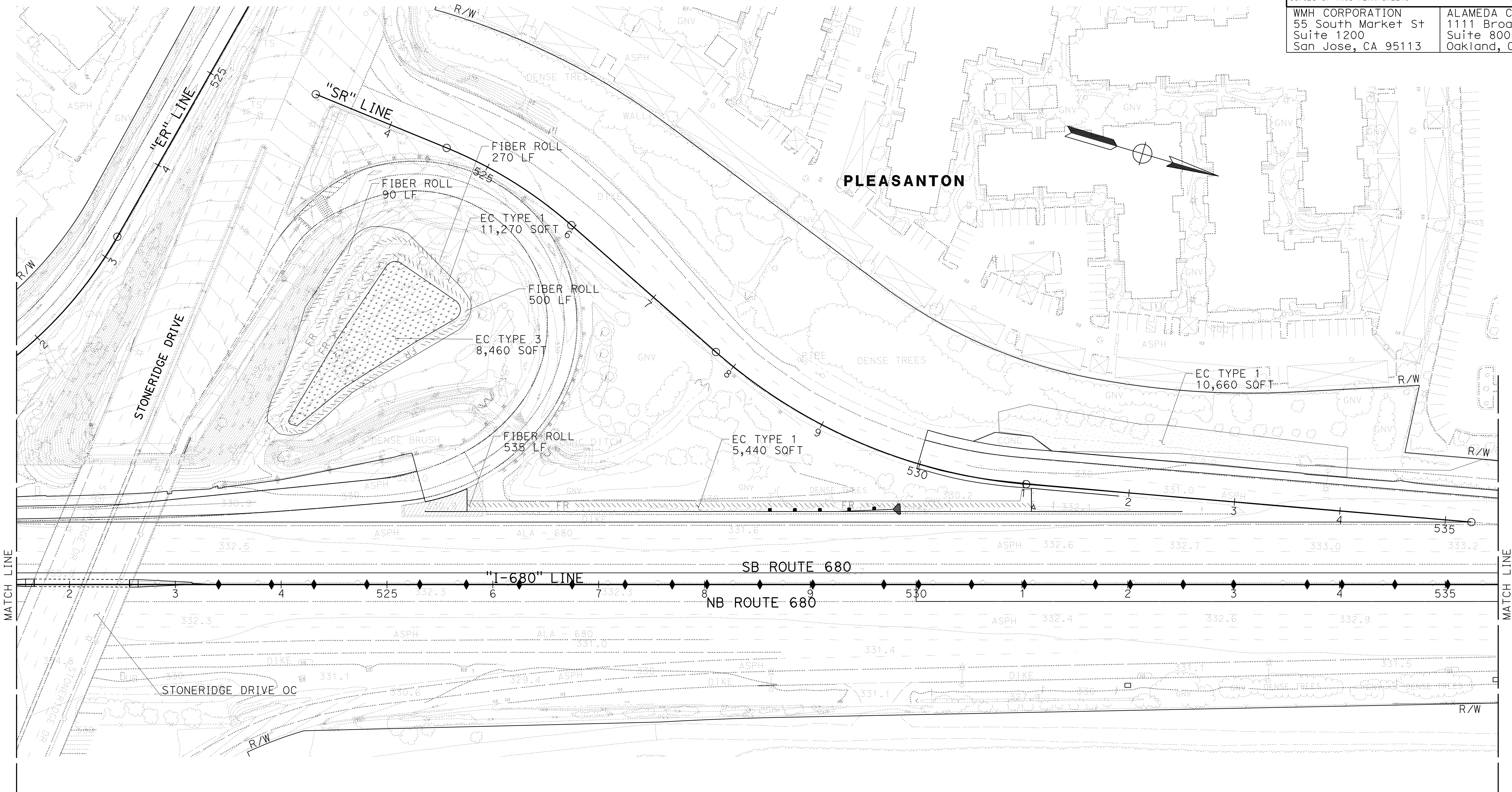
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SOUTH SAN RAMON CREEK
ALAMEDA COUNTY FLOOD CONTROL CHANNEL

EROSION CONTROL PLAN
SCALE: 1" = 50'
EC-27

APPROVED FOR EROSION CONTROL WORK ONLY

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 Et Caltrans

CALCULATED/DESIGNED BY	JOYCE RUSHTON	REVISOR	JLR
CHECKED BY	E. MCPHERSON	DATE REVISED	8-31-21
CONSULTANT FUNCTIONAL SUPERVISOR	TIMOTHY J. LEE		

USERNAME =>	p302438
DGN FILE =>	0420000235\e027.dgn

BORDER LAST REVISED 7/2/2010

RELATIVE BORDER SCALE
15 IN INCHES



UNIT 0733

PROJECT NUMBER & PHASE

04200002351

LAST REVISION DATE PLOTTED => 8-MAR-2022
 09-29-21 TIME PLOTTED => 16:35

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 DGN FILE => 0420000235+e028.dgn

NOTE:
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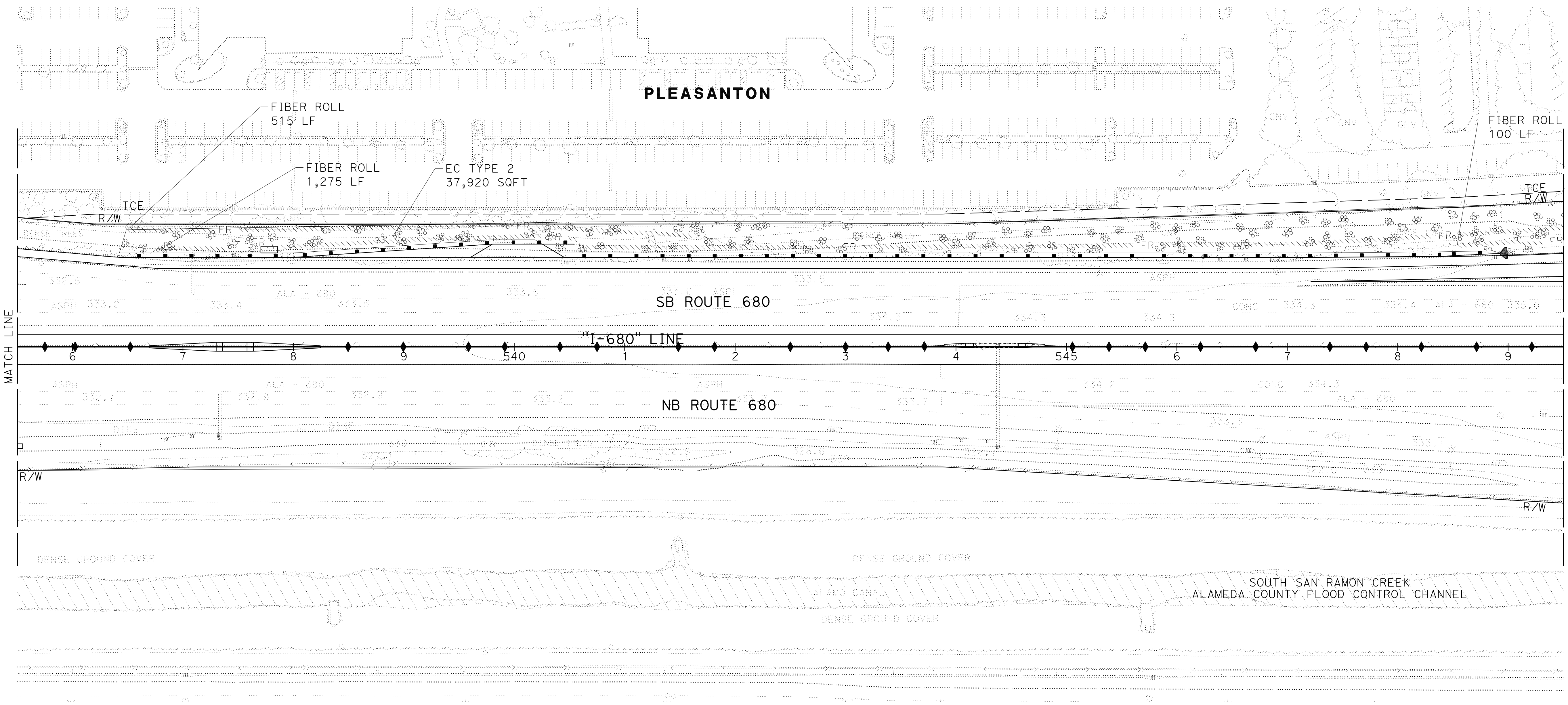
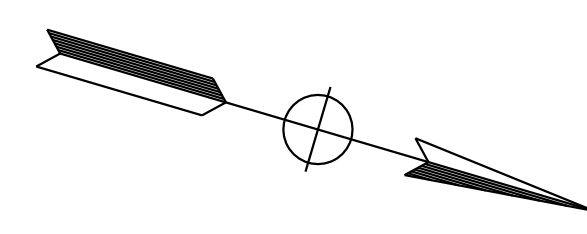
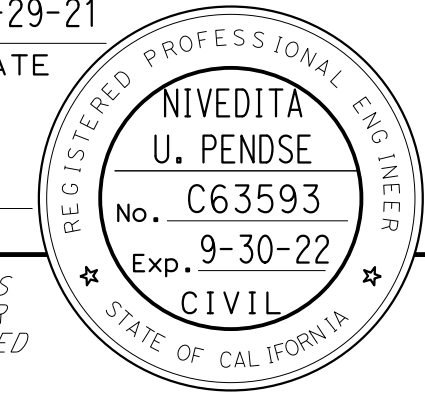
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1111	1710

REGISTERED CIVIL ENGINEER DATE 9-29-21
 October 8, 2021
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EROSION CONTROL PLAN
 SCALE: 1" = 50'
EC - 28

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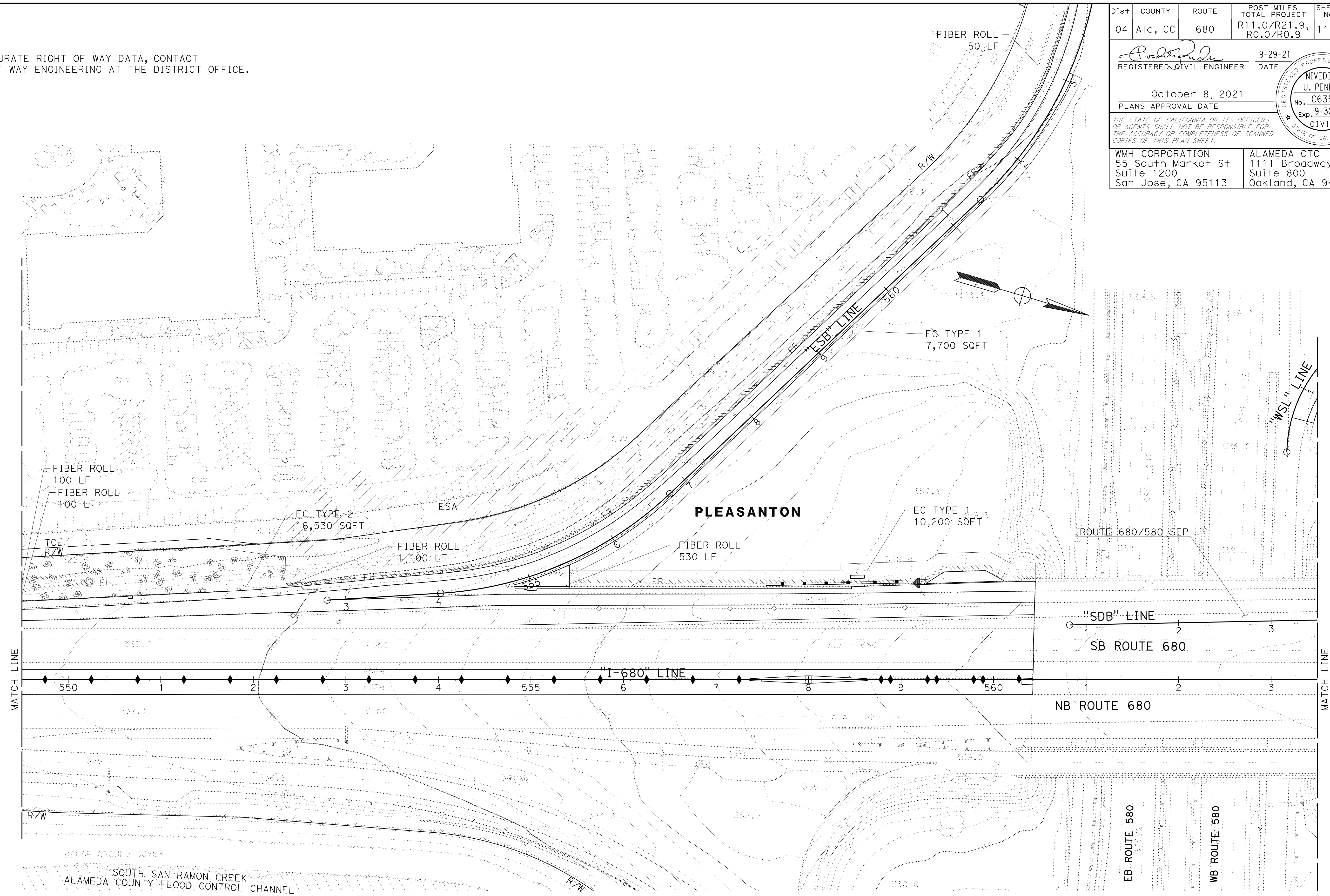
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1112	1710

REGISTERED CIVIL ENGINEER
DATE 9-29-21
October 8, 2021
PLANS APPROVAL DATE

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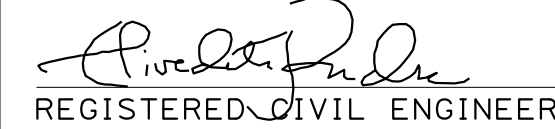
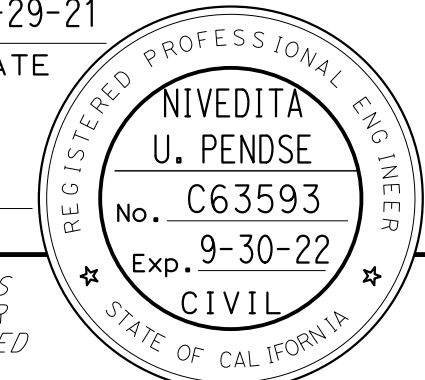
ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607



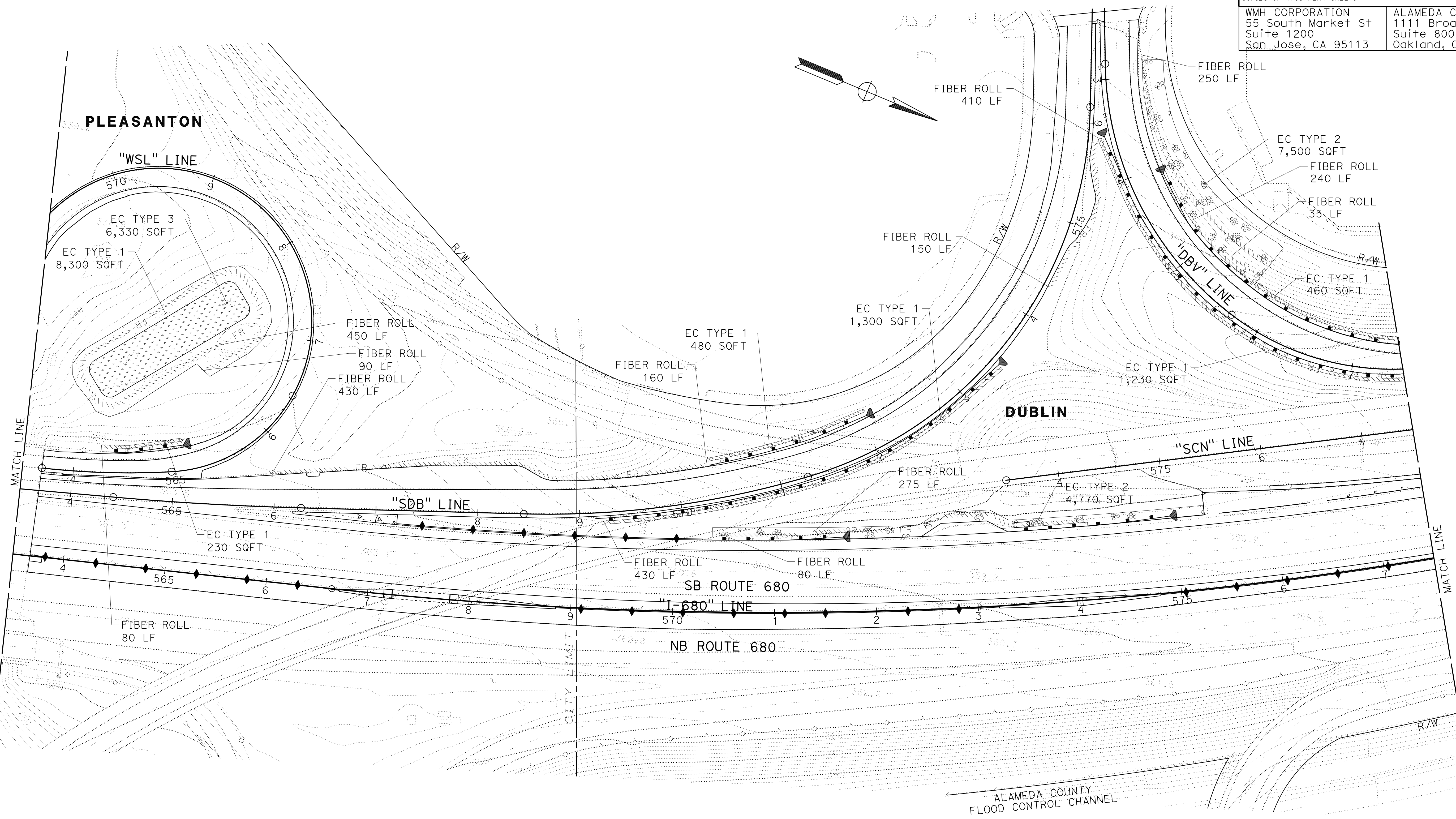
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EROSION CONTROL PLAN
SCALE: 1" = 50'
EC - 29

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 CONSULTANT: FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 JOYCE RUSHTON
 E. MCPHERSON
 REVISED BY
 DATE REVISED
 JLR
 8-31-21
 TIMOTHY J. LEE
 SUPERVISOR

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1113	1710
 REGISTERED CIVIL ENGINEER			9-29-21 DATE		
October 8, 2021 PLANS APPROVAL DATE					
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JOYCE RUSHTON	REVISOR	JLR	DATE	8-31-21
E. MCPHERSON	DESIGNER			
TIMOTHY J. LEE	SUPERVISOR			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION


EROSION CONTROL PLAN
 SCALE: 1" = 50'
EC-30

APPROVED FOR EROSION CONTROL WORK ONLY

LAST REVISION DATE PLOTTED => 8-MAR-2022 09-29-21 TIME PLOTTED => 16:36

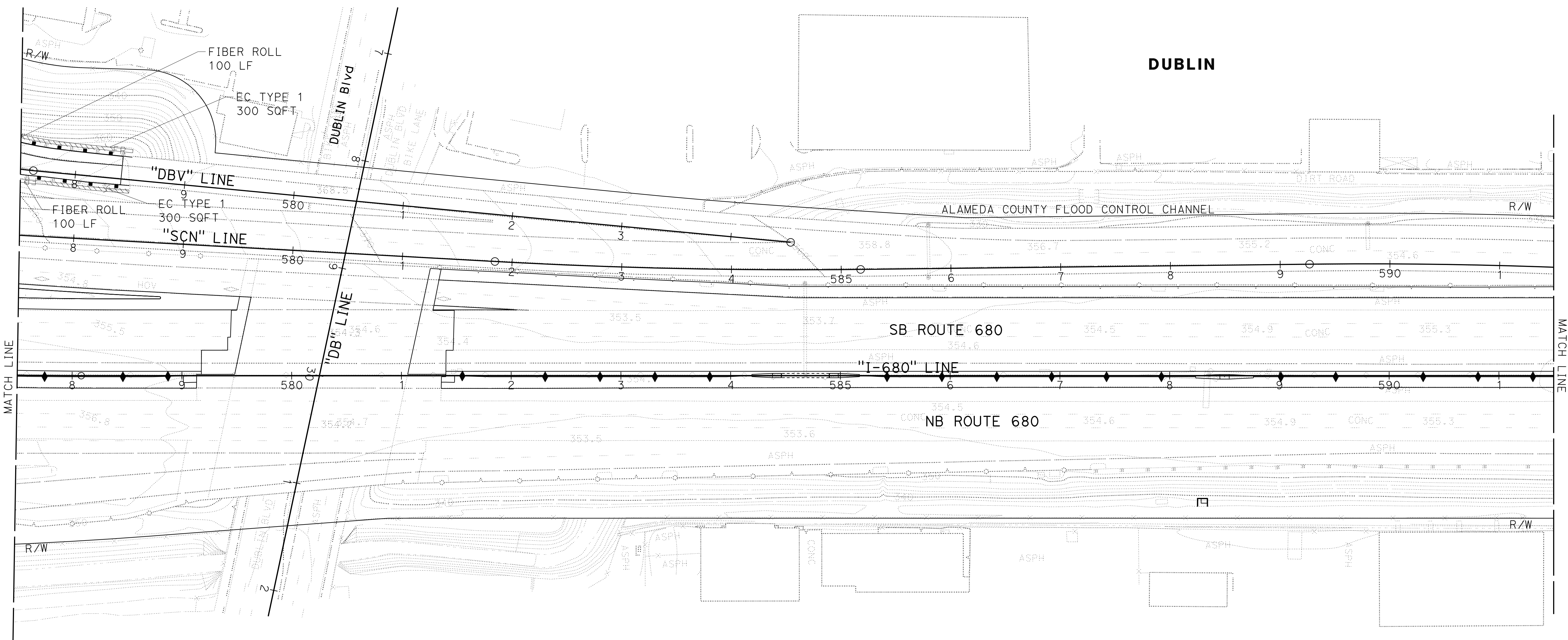
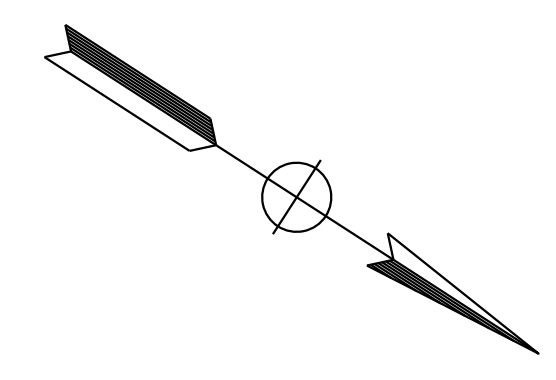
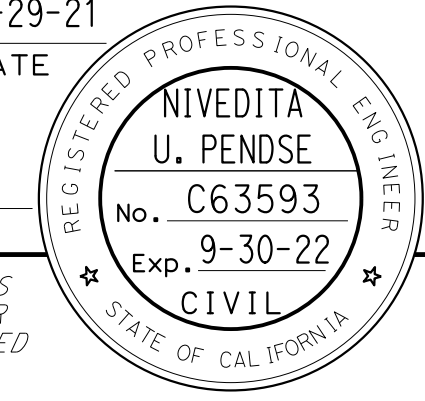
NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1114	1710

REGISTERED CIVIL ENGINEER DATE 9-29-21
 October 8, 2021
 PLANS APPROVAL DATE

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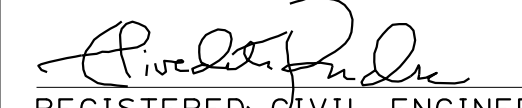
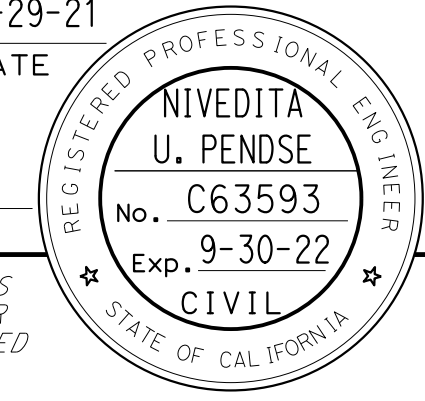
WMH CORPORATION 55 South Market St Suite 1200 San Jose, CA 95113	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
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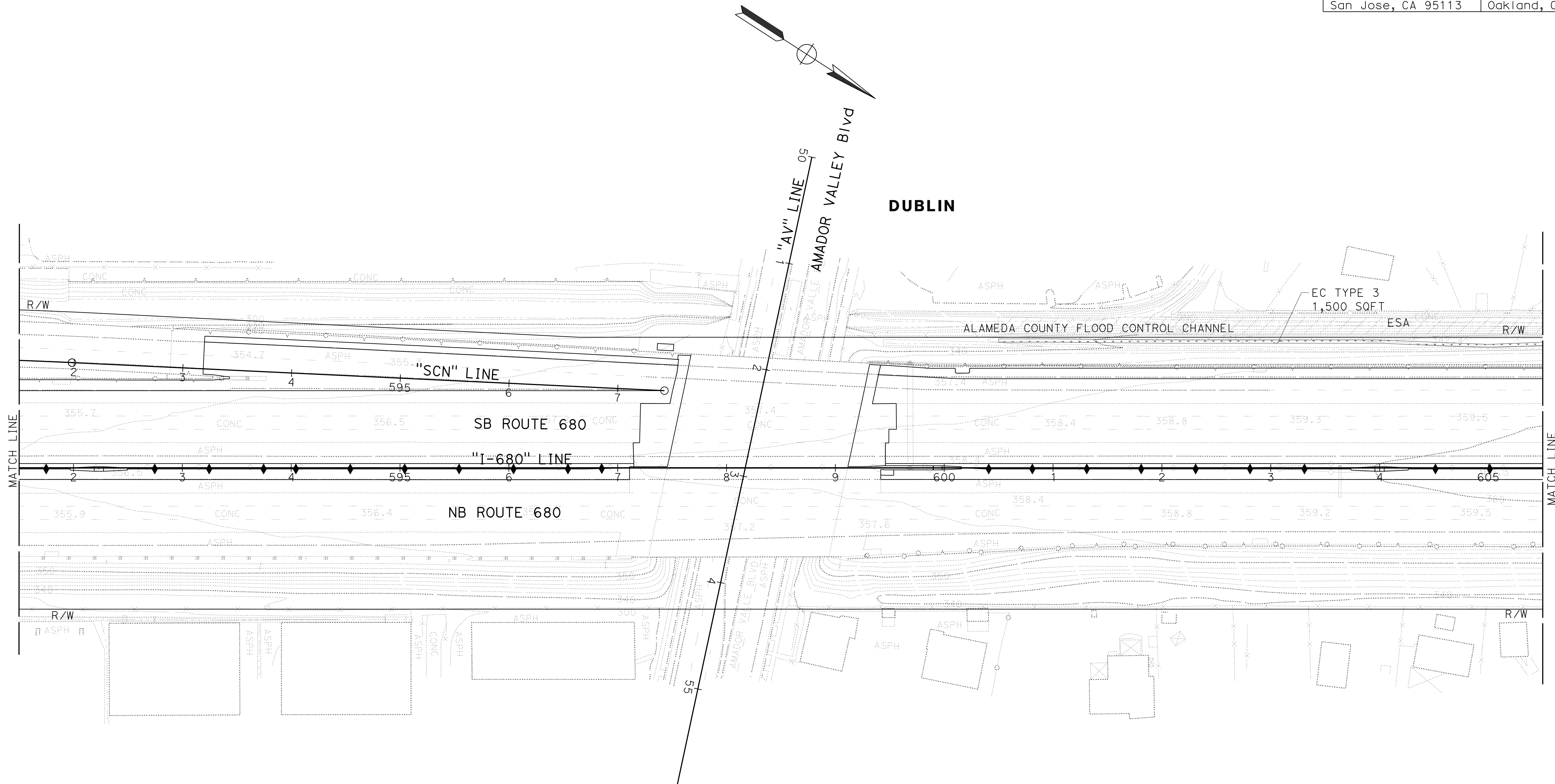
EROSION CONTROL PLAN
SCALE: 1" = 50'
EC-31

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 USERNAME => p302438
 DGN FILE => 0420000235\031.dgn

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1115	1710
 REGISTERED CIVIL ENGINEER			9-29-21	DATE	
October 8, 2021 PLANS APPROVAL DATE					
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NOTE:
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 CHECKED BY: E. MCPHERSON
 REVISED BY: JLR
 DATE REVISED: 8-31-21

EROSION CONTROL PLAN
 SCALE: 1" = 50'
EC-32

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 JOYCE RUSHTON
 REVISED BY: DATE REVISED: 8-31-21
 JLR

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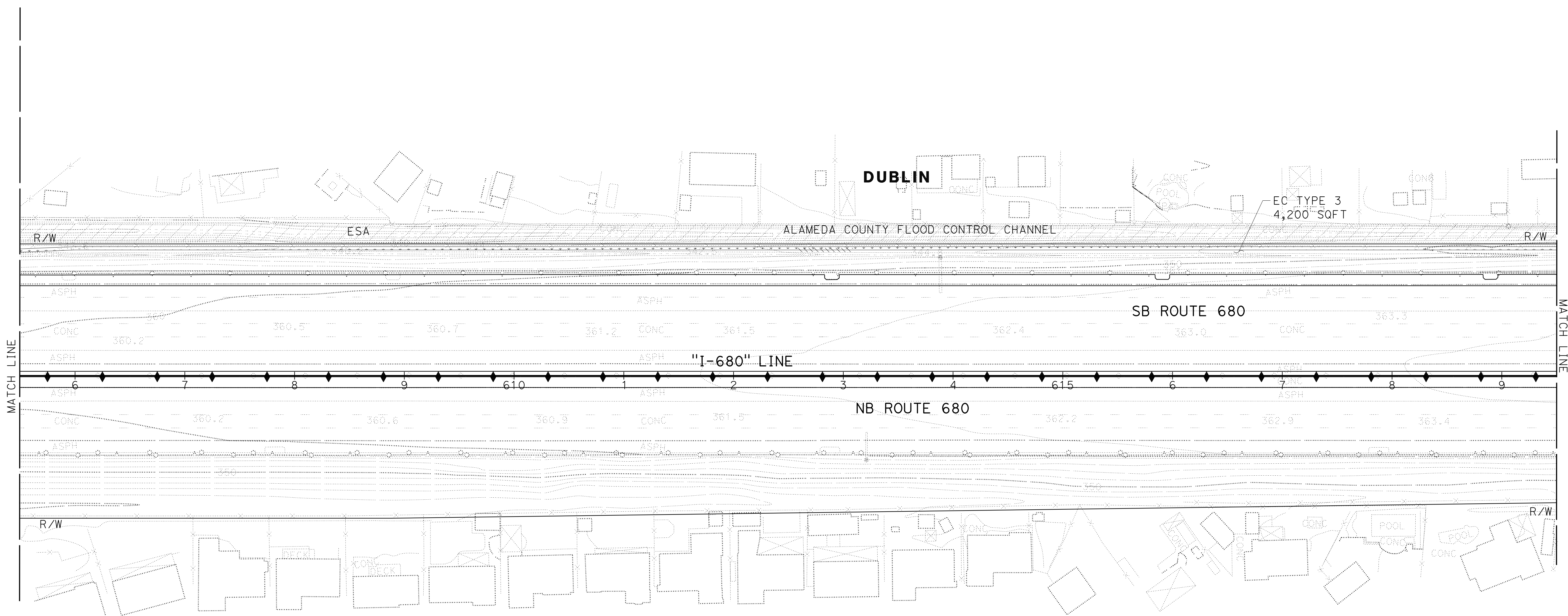
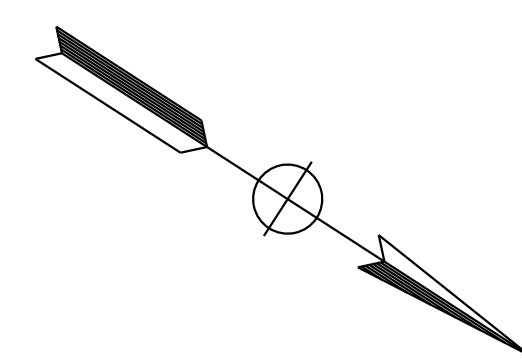
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1116	1710

REGISTERED CIVIL ENGINEER DATE 9-29-21
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EROSION CONTROL PLAN
 SCALE: 1" = 50'
EC-33

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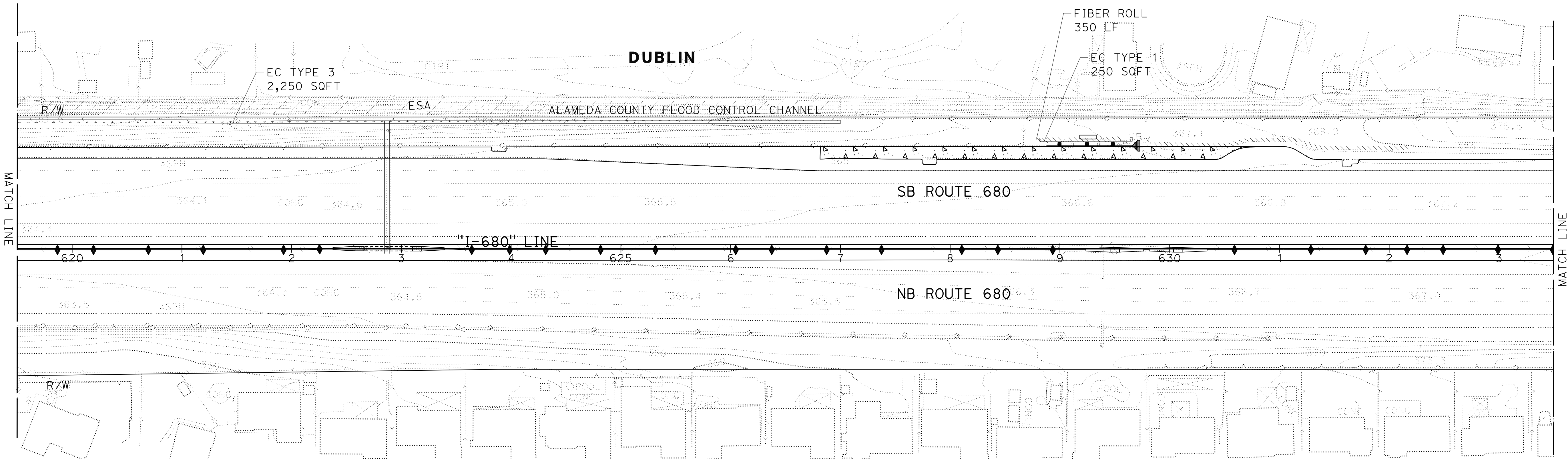
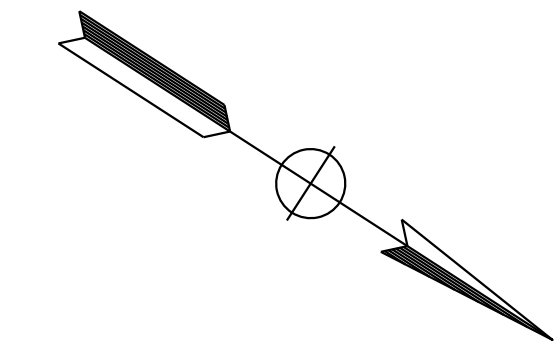
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1117	1710

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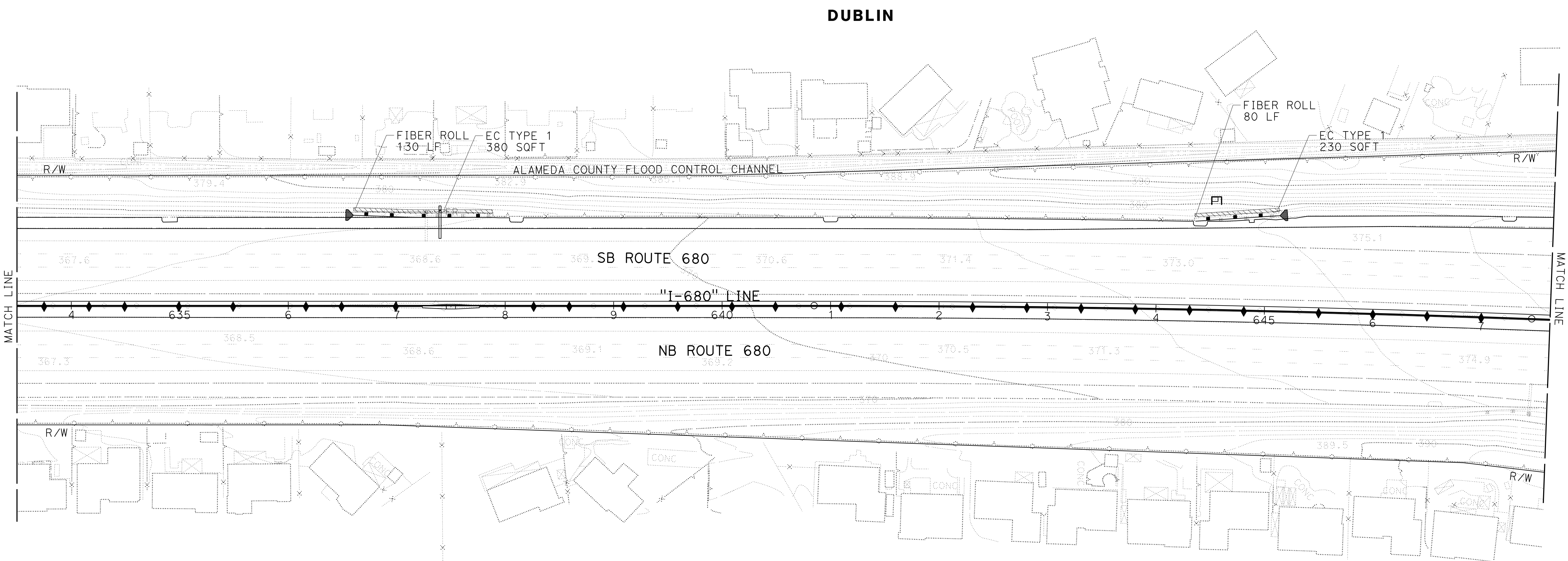
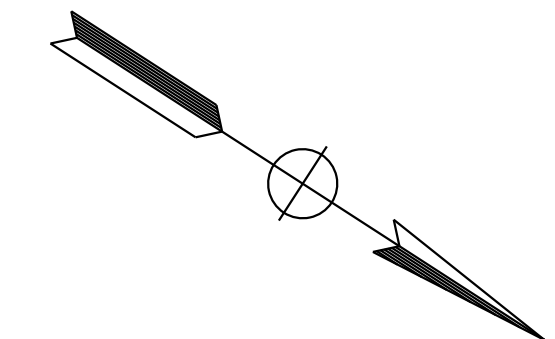
EROSION CONTROL PLAN
SCALE: 1" = 50'
EC-34

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1118	1710
			9-29-21		
REGISTERED CIVIL ENGINEER			DATE		
			October 8, 2021		
			PLANS APPROVAL DATE		
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NOTE:
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 CHECKED BY: E. MCPHERSON
 REVISED BY: JLR
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EROSION CONTROL PLAN
 SCALE: 1" = 50'
EC-35

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1119	1710

REGISTERED CIVIL ENGINEER
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 No. C63593
 Exp. 9-30-22
 CIVIL
 STATE OF CALIFORNIA

9-29-21
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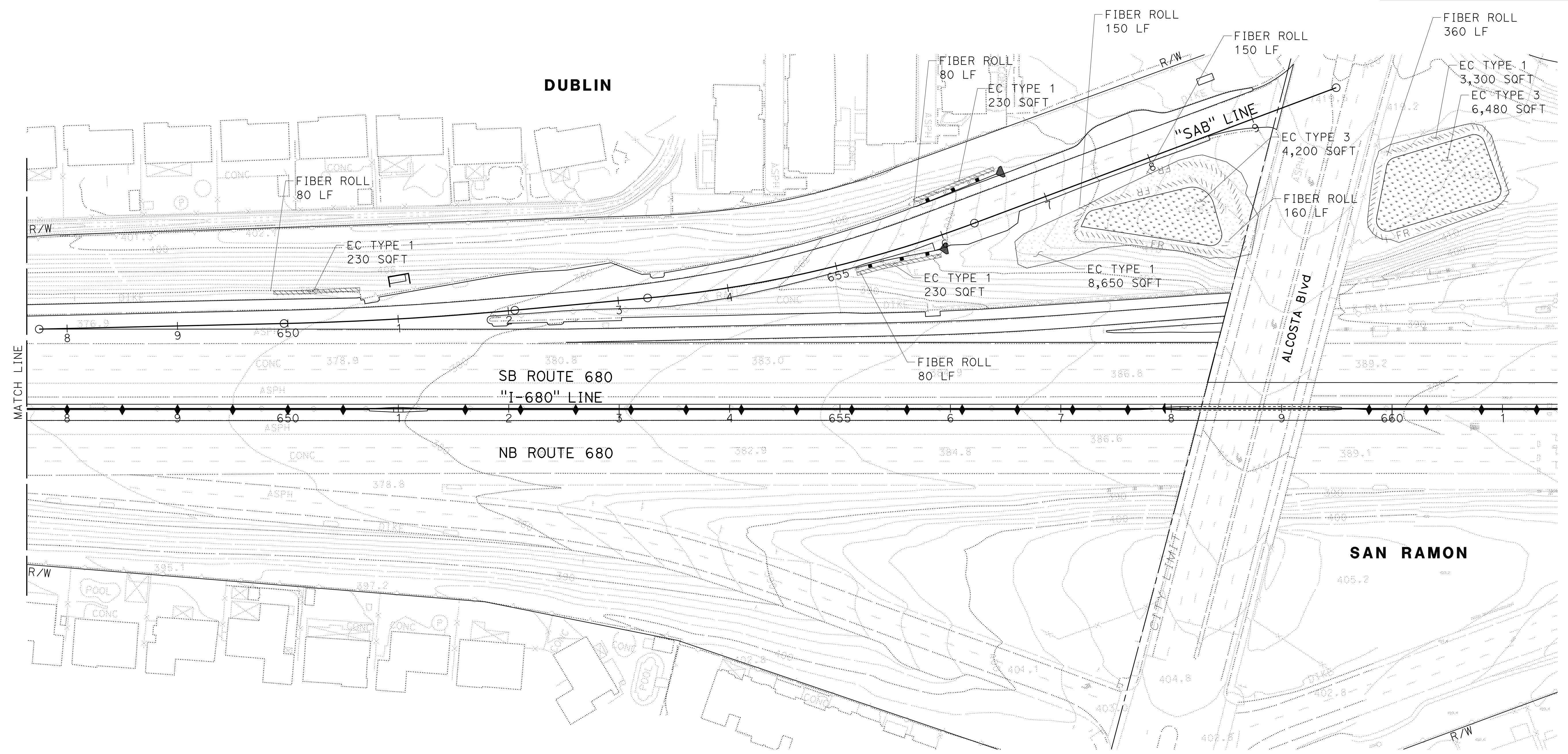
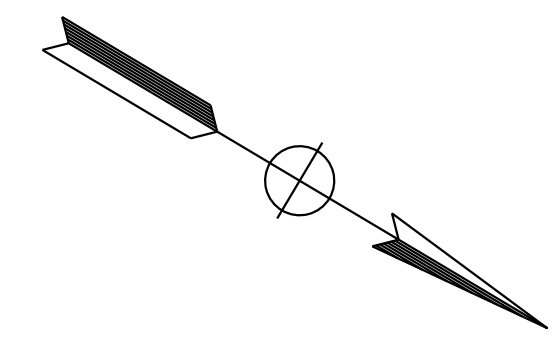
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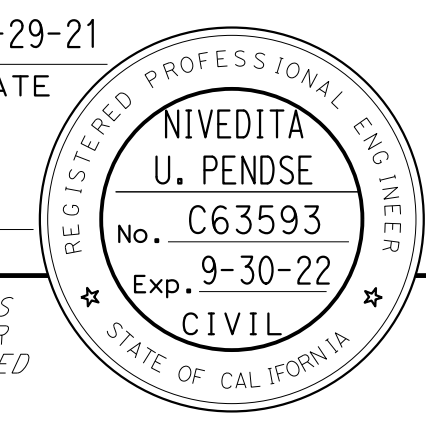
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 Et Caltrans

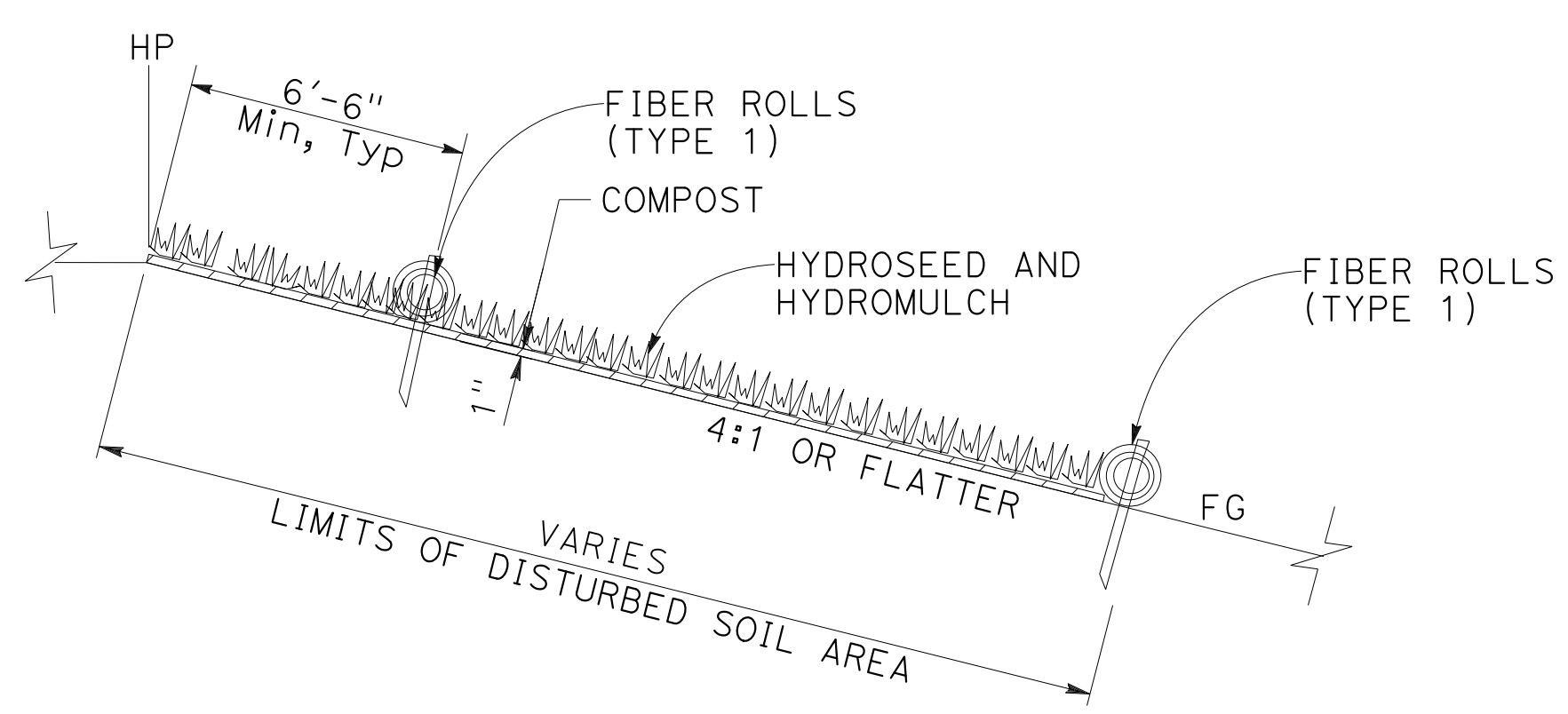
CALCULATED-DESIGNED BY	JOYCE RUSHTON	REVISOR	JLR
CHECKED BY	E. MCPHERSON	DATE	8-31-21
CONSULTANT FUNCTIONAL SUPERVISOR	TIMOTHY J. LEE		

APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL PLAN
 SCALE: 1" = 50'
EC-36

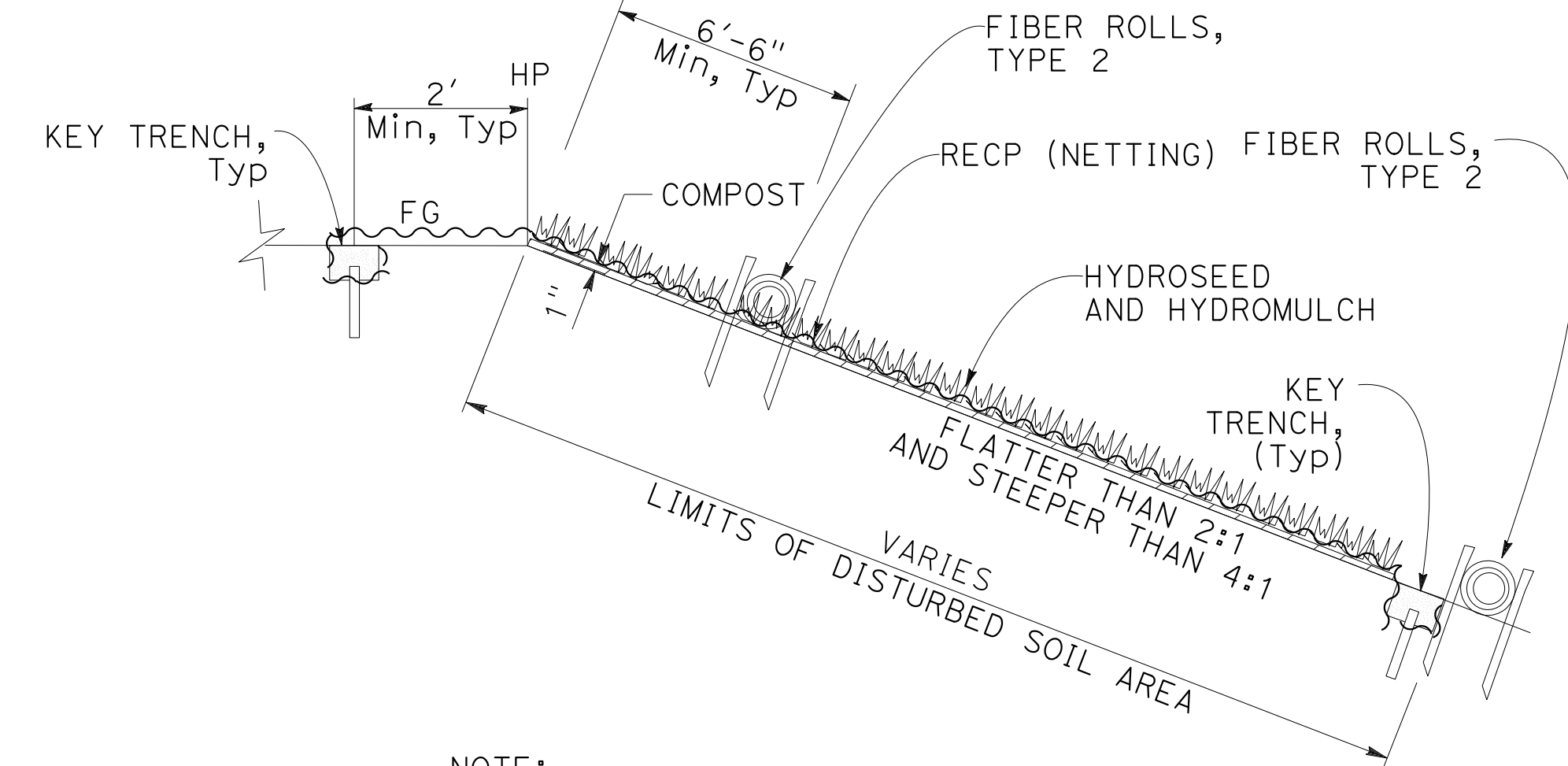
LAST REVISION DATE PLOTTED => 8-MAR-2022
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1120	1710
 REGISTERED CIVIL ENGINEER			9-29-21	DATE	
October 8, 2021 PLANS APPROVAL DATE					
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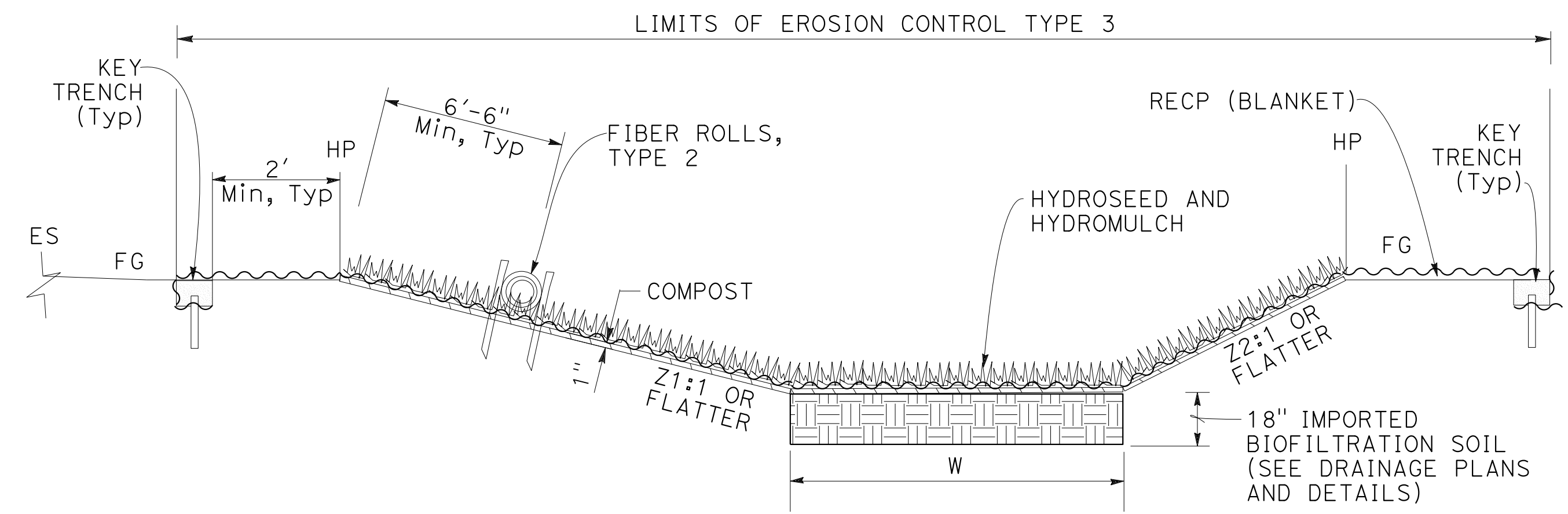
NOTE:
1. DOWNWARD SLOPE SHOWN. USE SAME APPLICATION FOR UPWARD SLOPES.

SECTION
EROSION CONTROL TYPE 1



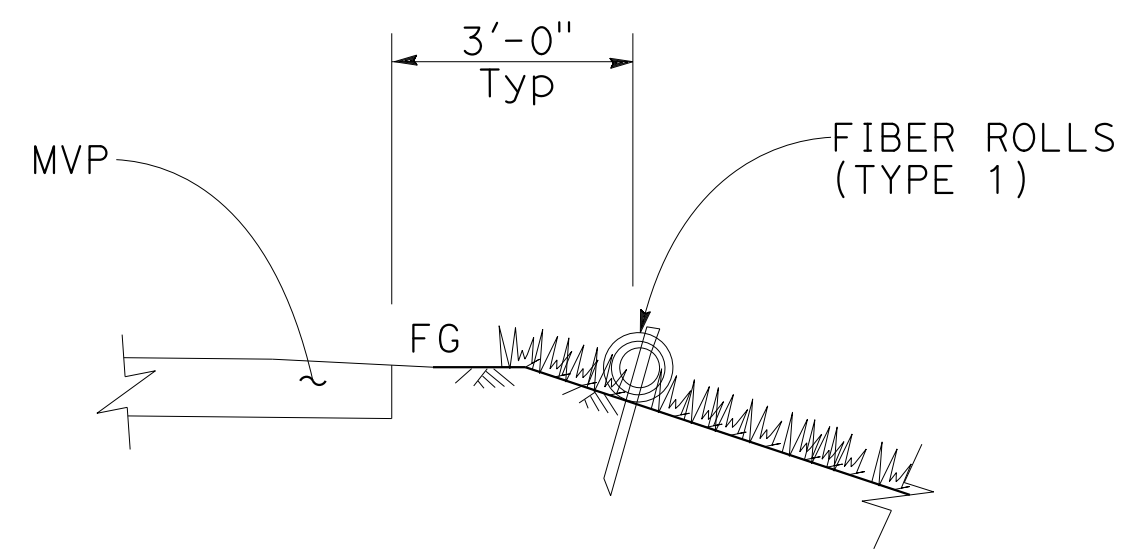
NOTE:
1. DOWNWARD SLOPE SHOWN. USE SAME APPLICATION FOR UPWARD SLOPES.

SECTION
EROSION CONTROL TYPE 2

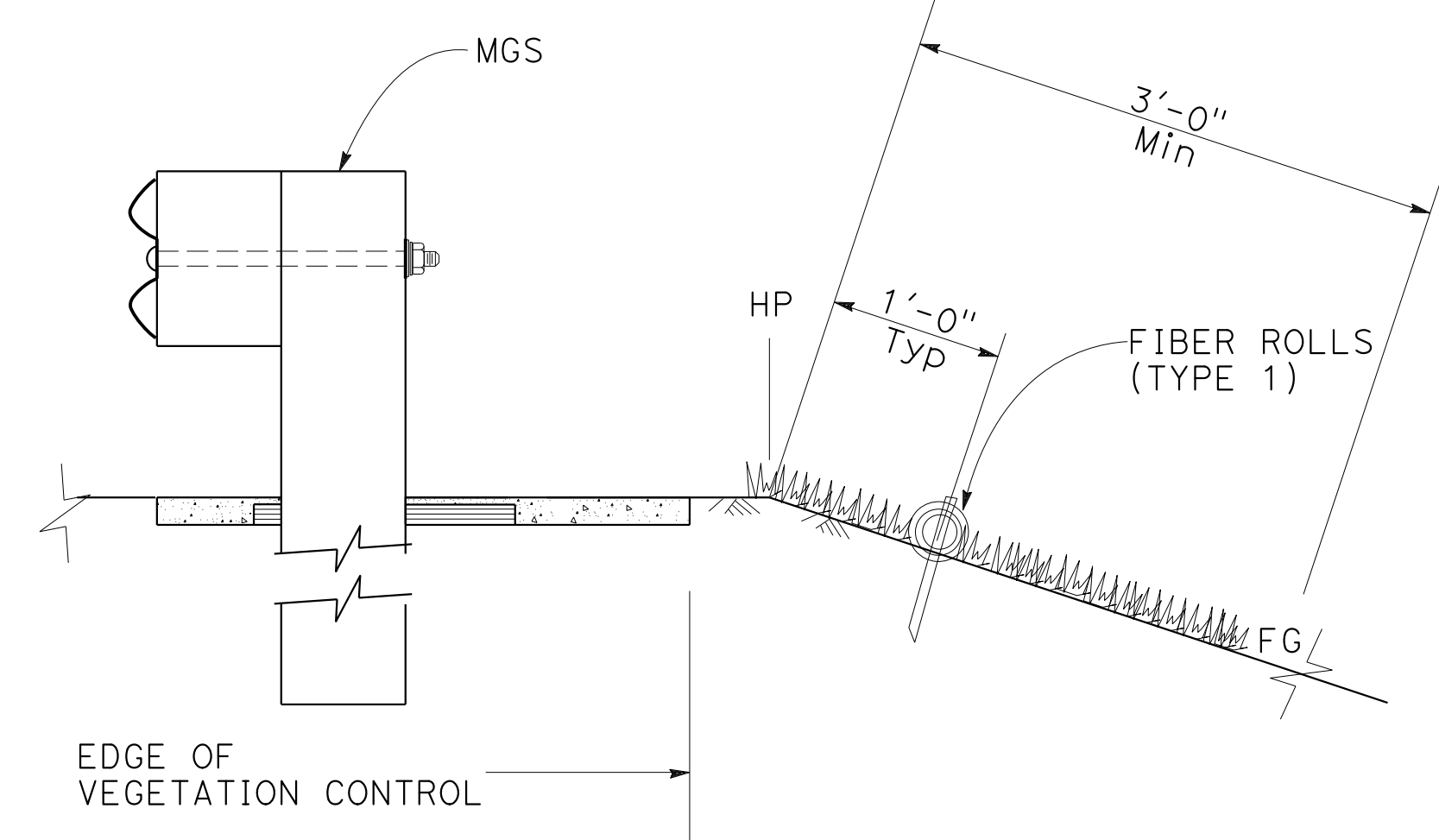


NOTE:
1. FOR W AND SIDE SLOPES Z1:1 AND Z2:1 SEE DRAINAGE DETAILS SHEETS

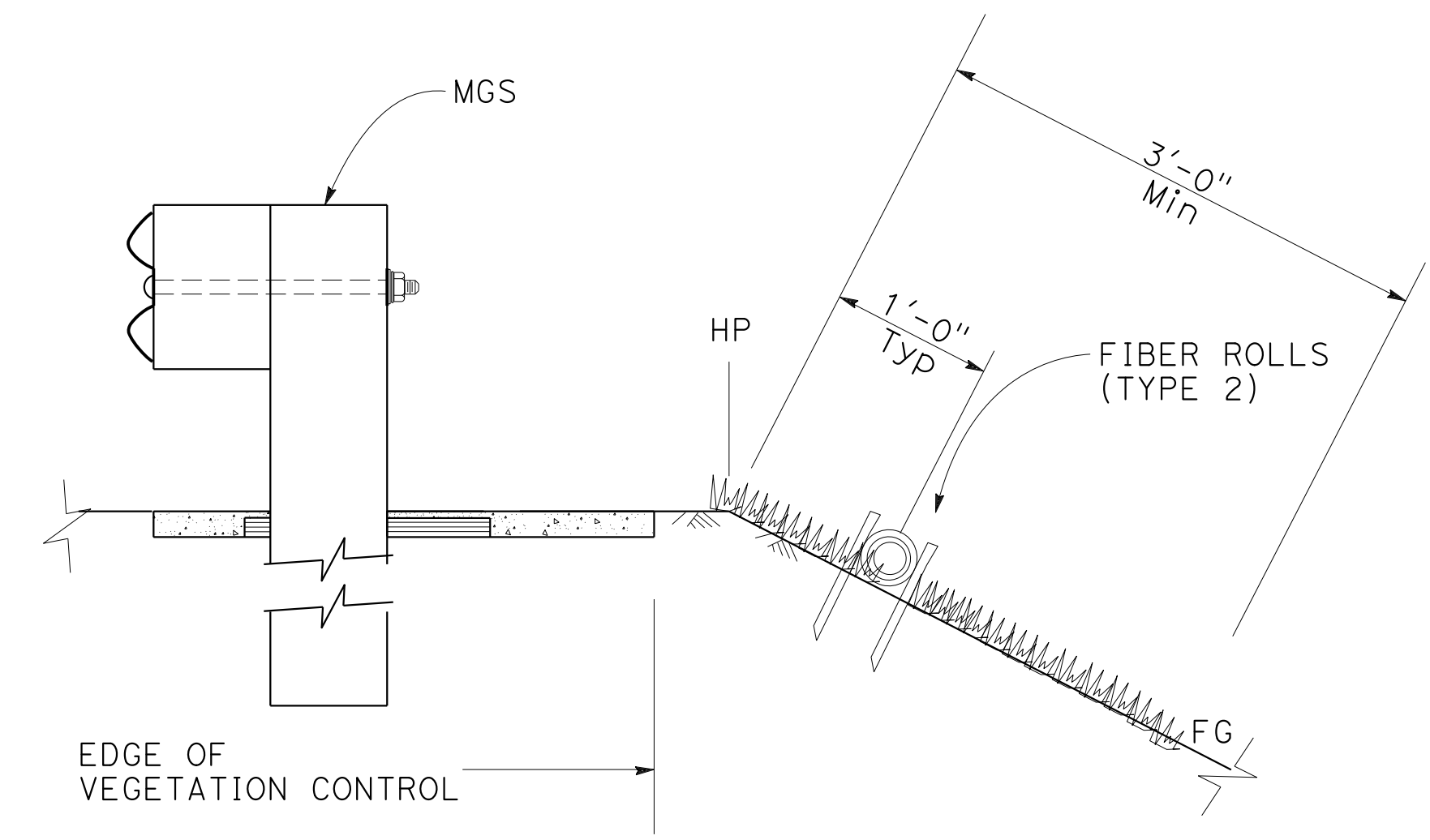
SECTION
**EROSION CONTROL TYPE 3
(BIORETENTION SWALE AND BASIN)**



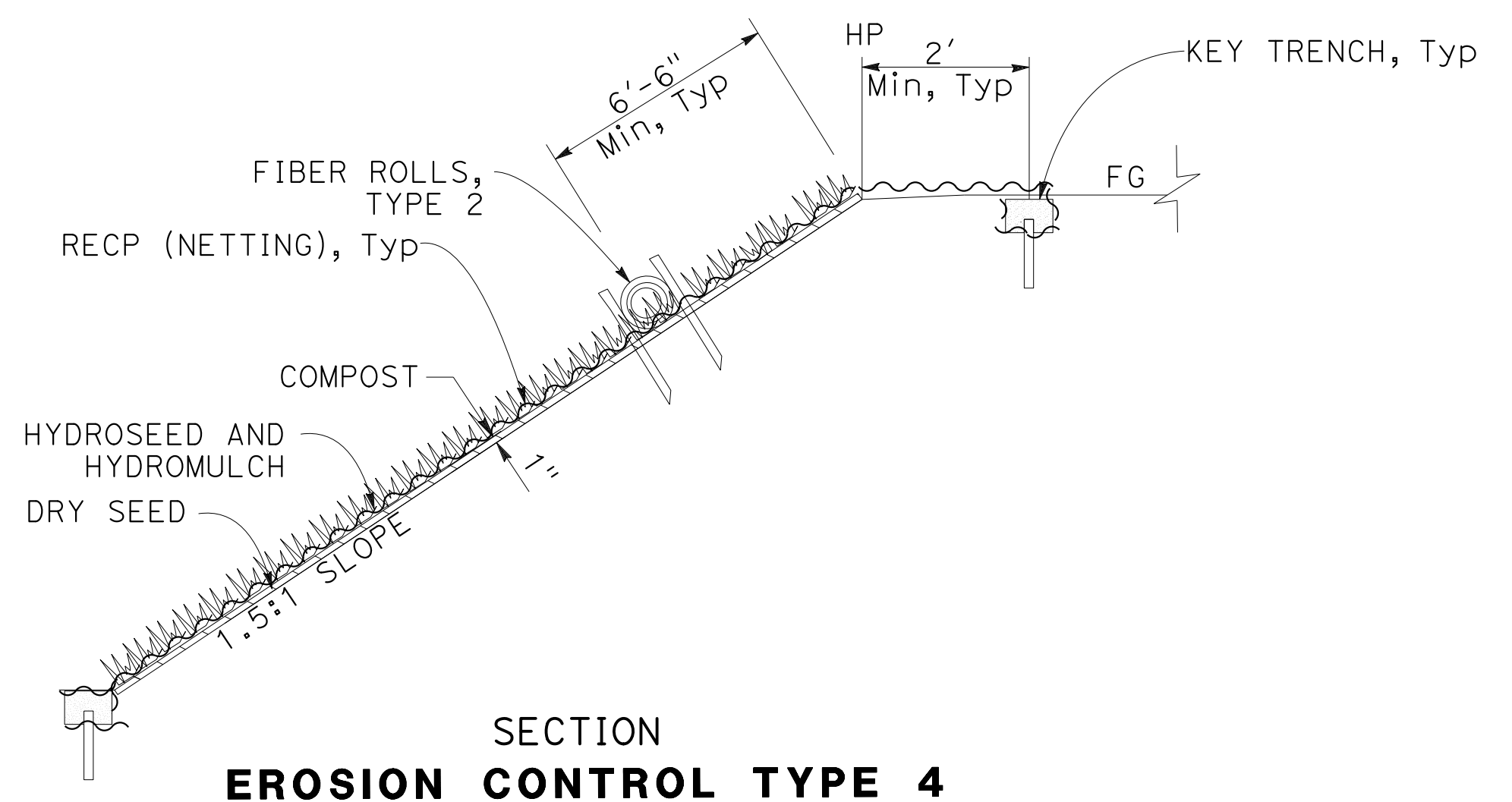
SECTION
FIBER ROLL PLACEMENT AT MVP



SECTION
**FIBER ROLL PLACEMENT AT MGS
SLOPE 4:1 OR FLATTER**



SECTION
**FIBER ROLL PLACEMENT AT MGS
SLOPES BETWEEN 4:1 AND 2:1**


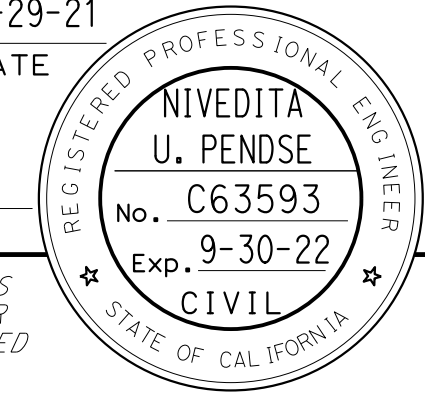


SECTION
EROSION CONTROL TYPE 4

EROSION CONTROL DETAILS
NO SCALE

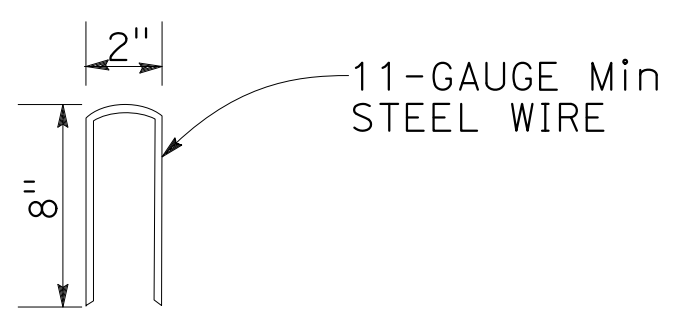
ECD-1

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 CALCULATED/DESIGNED BY
 CHECKED BY
 JOYCE RUSHTON
 E. MCPHERSON
 JLR
 8-31-21
 REVISOR
 DATE
 TIMOTHY J. LEE

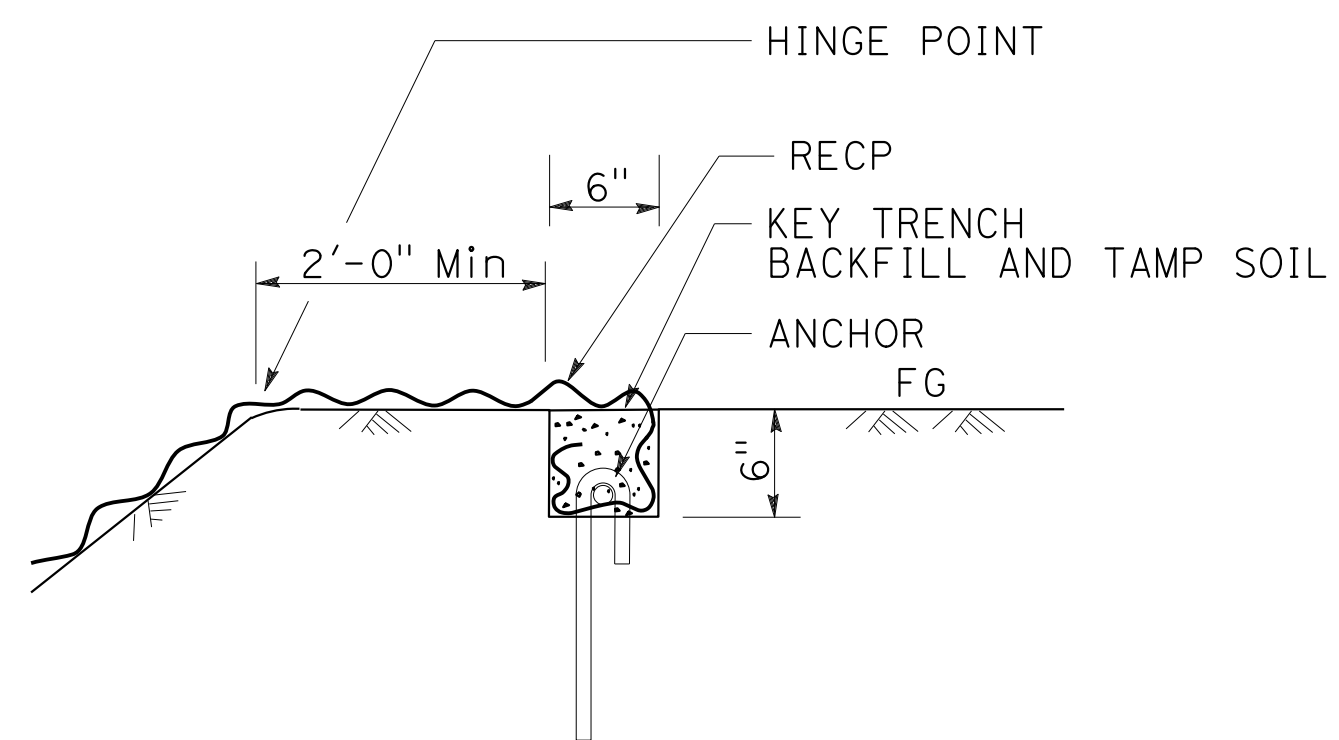
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1121	1710
 REGISTERED CIVIL ENGINEER			9-29-21	DATE	
October 8, 2021 PLANS APPROVAL DATE					
WMH CORPORATION 55 South Market St Suite 1200 San Jose, CA 95113			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		

NOTES:

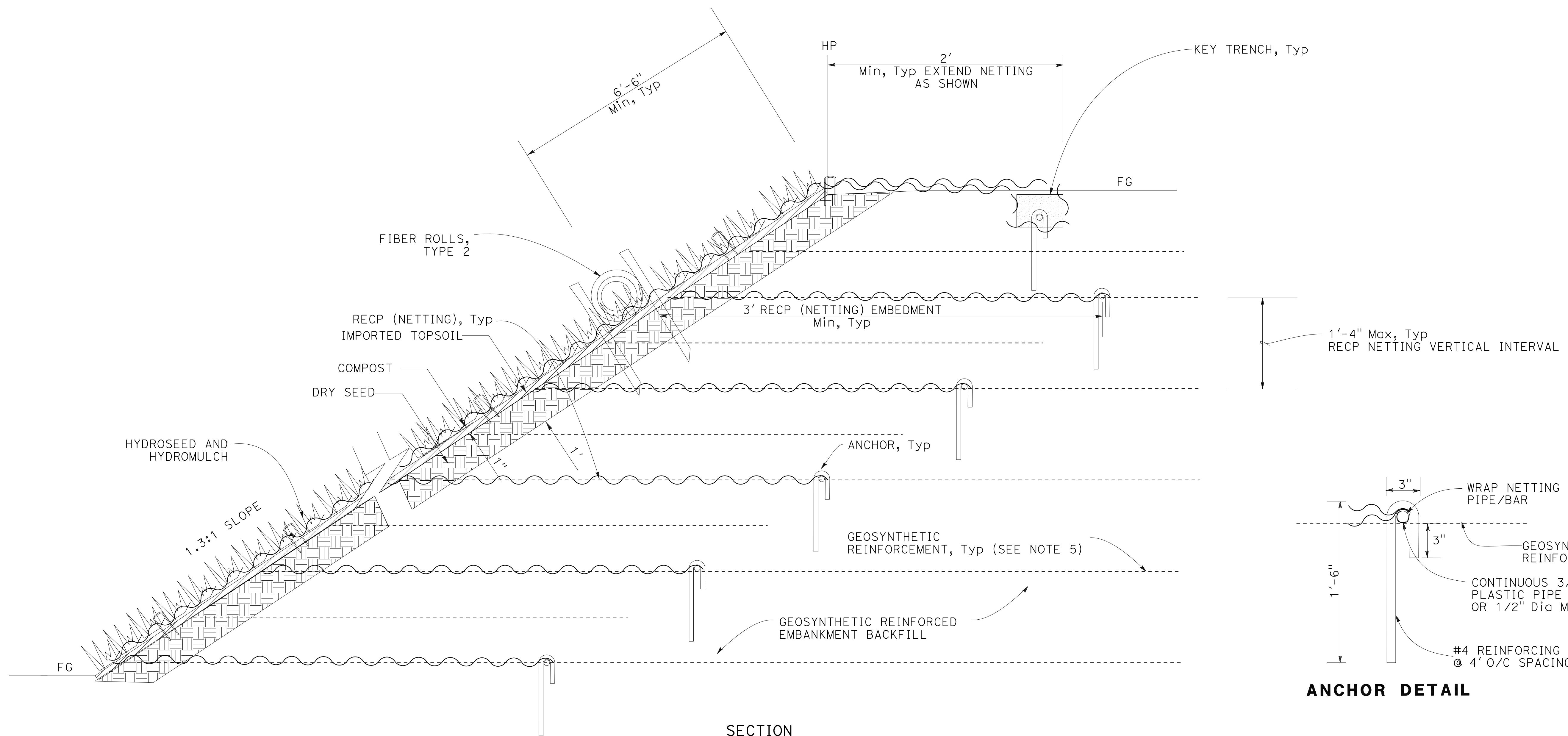
1. INSTALL RECP (NETTING) IN CONJUNCTION WITH INSTALLATION OF GEOSYNTHETIC REINFORCED EMBANKMENT.
2. ANCHOR RECP (NETTING) THROUGH GEOSYNTHETIC REINFORCEMENT AT ALL LOCATIONS.
3. STAPLE RECP (NETTING) AS NECESSARY TO ENSURE CONTACT WITH THE GROUND PLANE.
4. DIMENSIONS MAY VARY TO MATCH FIELD CONDITIONS.
5. SEE GEOSYNTHETIC REINFORCED EMBANKMENT DETAIL, SHEET C-89.
6. INSTALL FIBER ROLLS AS SHOWN AND PER STANDARD PLAN RSP H51.



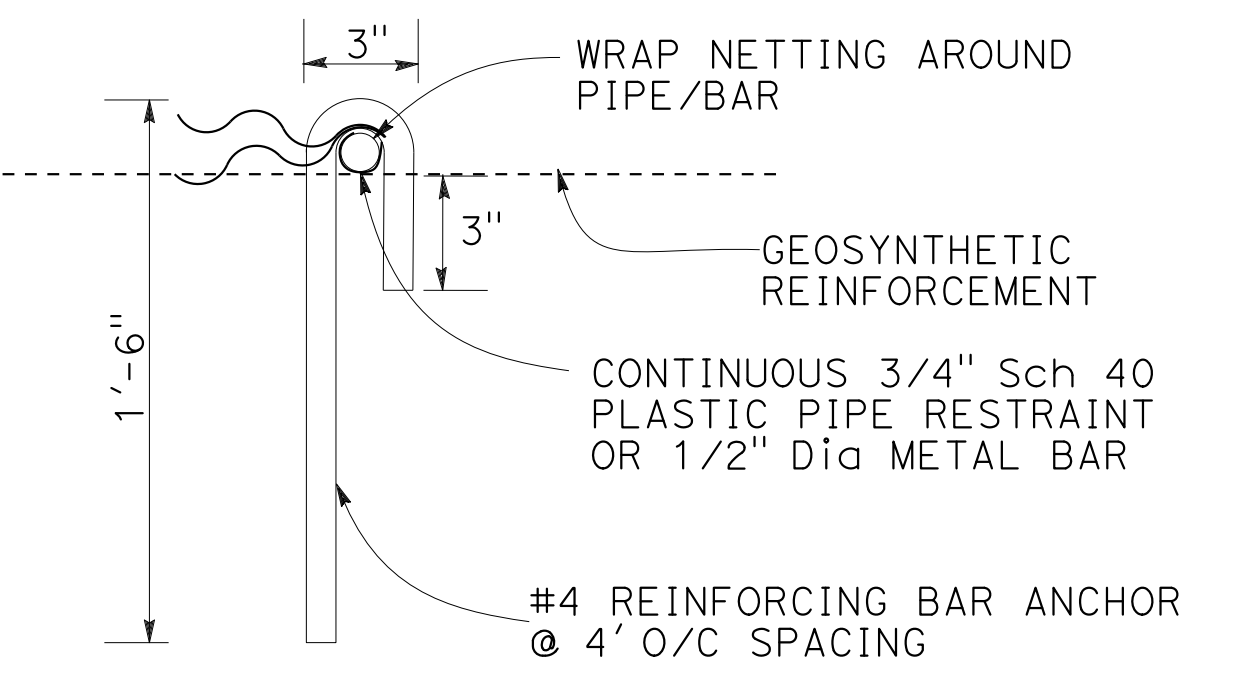
STAPLE DETAIL



KEY TRENCH DETAIL



SECTION EROSION CONTROL TYPE 5 FOR GEOSYNTHETIC REINFORCED EMBANKMENT



ANCHOR DETAIL

EROSION CONTROL DETAILS
NO SCALE
ECD-2

O:\0030\UDRAFT\ING\FINAL_P58E\0420000235\F002.dgn
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 E. MCPHERSON
 JLR
 8-31-21
 REVISOR BY DATE
 CALCULATED BY DESIGNED BY
 CHECKED BY
 SUPERVISOR
 FUNCTIONAL SUPERVISOR
 J. LEE
 CONSULTANT

NOTES:

1. QUANTITIES FOR RECP (NETTING) USED IN EROSION CONTROL (TYPE 5) WHEN INSTALLED WITH GEOSYNTHETIC REINFORCED EMBANKMENT DOES NOT INCLUDE MATERIAL USED FOR EMBEDMENTS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1122	1710

REGISTERED CIVIL ENGINEER
 NIVEDITA U. PENDSE
 No. C63593
 Exp. 9-30-22
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9-29-21
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EROSION CONTROL QUANTITIES

SHEET No.	DESCRIPTION	COMPOST (CY)	IMPORTED TOP SOIL (CY)	ROLLED EROSION CONTROL PRODUCT (NETTING)	ROLLED EROSION CONTROL PRODUCT (BLANKET)	HYDROSEED	HYDROMULCH	DRY SEED	FIBER ROLLS	MOVE IN/ MOVE OUT (EROSION CONTROL)	HYDROSEED MATERIALS (N)				HYDROMULCH MATERIALS (N)	
											EA	LB	LB	LB	LB	LB
EC-1	EROSION CONTROL TYPE 2	23		7,600		7,600	7,600		1,150		8.7		139.6	174.5	436.2	21.8
EC-2	EROSION CONTROL TYPE 1	22				7,000	7,000		2,620	1	8.0		128.6	160.7	401.7	20.1
	EROSION CONTROL TYPE 2	90		29,155		29,155	29,155			33.5		535.4	669.3	1,673.3	83.7	
EC-3	EROSION CONTROL TYPE 3	12			3,750	3,750	3,750		1,975	1		5.3	68.9	86.1	215.2	10.8
	EROSION CONTROL TYPE 2	101		32,620		32,620	32,620			37.4		599.1	748.9	1,872.1	93.6	
EC-4	EROSION CONTROL TYPE 3	12			3,885	3,885	3,885		4,355	1		5.5	71.3	89.2	223.0	11.1
	EROSION CONTROL TYPE 2	185		59,790		59,790	59,790			68.6		1,098.1	1,372.6	3,431.5	171.6	
	EROSION CONTROL TYPE 3	7			2,380	2,380	2,380	1,000		1.1		43.7	54.6	136.6	6.8	
EC-5	EROSION CONTROL TYPE 4	3		1,000		1,000	1,000		3,110	1	17.1		18.4	23.0	57.4	2.9
	EROSION CONTROL TYPE 1	46				14,940	14,940			46.8		274.4	343.0	857.4	42.9	
EC-6	EROSION CONTROL TYPE 2	126		40,730		40,730	40,730		2,940	1		1.8	748.0	935.0	2,337.6	116.9
	EROSION CONTROL TYPE 3	4			1,245	1,245	1,245					22.9	28.6	71.5	3.6	
EC-7	EROSION CONTROL TYPE 1	40				13,110	13,110		2,685	1	15.0		240.8	301.0	752.4	37.6
	EROSION CONTROL TYPE 2	105		34,180		34,180	34,180			39.2		627.7	784.7	1,961.7	98.1	
EC-8	EROSION CONTROL TYPE 3	18			5,750	5,750	5,750		3,015	1		8.2	105.6	132.0	330.0	16.5
	EROSION CONTROL TYPE 1	23				7,380	7,380			8.5		135.5	169.4	423.6	21.2	
EC-9	EROSION CONTROL TYPE 2	100		32,325		32,325	32,325		3,685	1	37.1		593.7	742.1	1,855.2	92.8
	EROSION CONTROL TYPE 3	9			2,875	2,875	2,875					4.1	52.8	66.0	165.0	8.3
EC-10	EROSION CONTROL TYPE 1	18				5,850	5,850		4,315	5	6.7		107.4	134.3	335.7	16.8
	EROSION CONTROL TYPE 2	106		34,190		34,190	34,190			39.2		627.9	784.9	1,962.2	98.1	
EC-11	EROSION CONTROL TYPE 2	96		31,160		31,160	31,160		3,685	1	35.8		572.3	715.3	1,788.3	89.4
	EROSION CONTROL TYPE 2	179		57,975		57,975	57,975			66.5		1,064.7	1,330.9	3,327.3	166.4	
EC-12	EROSION CONTROL TYPE 5	23	281	7,590		7,590	7,590	7,590	4,315	5	8.7		139.4	174.2	435.6	21.8
	EROSION CONTROL TYPE 2	122				39,470	39,470					45.3		724.9	906.1	2,265.3
EC-13	EROSION CONTROL TYPE 2	27		8,820		8,820	8,820		2,955	2	10.1		162.0	202.5	506.2	25.3
	EROSION CONTROL TYPE 3	54			17,600	17,600	17,600						25.1	323.2	404.0	1,010.1
EC-14	EROSION CONTROL TYPE 1	96				31,160	31,160		2,465	1	35.8		572.3	715.3	1,788.3	89.4
	EROSION CONTROL TYPE 2	6		1,940		1,940	1,940			2.2		35.6	44.5	111.3	5.6	
EC-15	EROSION CONTROL TYPE 3	26			8,580	8,580	8,580		535	1		12.2	157.6	197.0	492.4	24.6
	EROSION CONTROL TYPE 2	40		13,020		13,020	13,020			14.9		239.1	298.9	747.2	37.4	
EC-16	EROSION CONTROL TYPE 2	66		21,320		21,320	21,320		2,280	1	24.5		391.6	489.4	1,223.6	61.2
	EROSION CONTROL TYPE 3	9			3,000	3,000	3,000					4.3	55.1	68.9	172.2	8.6
EC-17	EROSION CONTROL TYPE 2	19		6,190		6,190	6,190		1,340	1	7.1		113.7	142.1	355.3	17.8
	EROSION CONTROL TYPE 2	2		730		730	730			0.8		13.4	16.8	41.9	2.1	
EC-18	EROSION CONTROL TYPE 2	86		28,010		28,010	28,010		2,530	1	32.2		514.4	643.0	1,607.6	80.4
	EROSION CONTROL TYPE 3	11			3,610	3,610	3,610					5.1	66.3	82.9	207.2	10.4
EC-19	EROSION CONTROL TYPE 2	45		14,450		14,450	14,450		2,010	1	16.6		265.4	331.7	829.3	41.5
	EROSION CONTROL TYPE 3	1			60	60	60					0.1	1.1	1.4	3.4	0.2
EC-19	EROSION CONTROL TYPE 2	43		14,090		14,090	14,090		1,710		16.2		258.8	323.5	808.7	40.4
SHEET TOTAL		2,001	281	487,525	52,735	648,530	648,530	8,590	45,815	14						

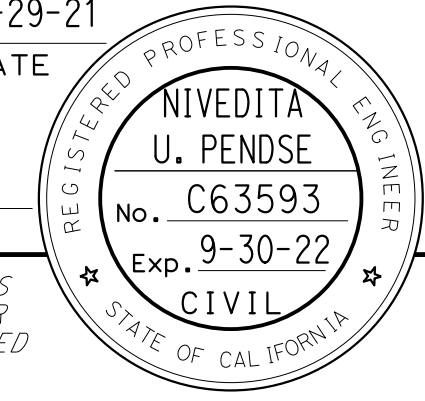
(N) - NOT A SEPARATE BID ITEM.

EROSION CONTROL QUANTITIES

ECQ-1

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION


CALCULATED- DESIGNED BY	J. RUSHTON	REVISOR	JLR	DATE	8-31-21
CHECKED BY	E. MCPHERSON	DATE	REVISED BY	DATE	REVISED
SUPERVISOR	TIMOTHY J. LEE				

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1123	1710
			9-29-21		
			DATE		
October 8, 2021					
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.					
WMH CORPORATION 55 South Market St Suite 1200 San Jose, CA 95113			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		

EROSION CONTROL QUANTITIES


SHEET No.	DESCRIPTION	COMPOST (CY)	IMPORTED TOP SOIL (CY)	ROLLED EROSION CONTROL PRODUCT (NETTING)	ROLLED EROSION CONTROL PRODUCT (BLANKET)	HYDROSEED	HYDROMULCH	DRY SEED	FIBER ROLLS	MOVE IN/ MOVE OUT (EROSION CONTROL)	HYDROSEED MATERIALS (N)				HYDROMULCH MATERIALS (N)		
											MIX 1	MIX 2	FERTILIZER	FIBER (WOOD)	FIBER (ALTERNATE)	TACKIFIER	
											EA	LB	LB	LB	LB	LB	
EC-20	EROSION CONTROL TYPE 2	111		36,120		36,120	36,120		2,880		1	41.5		663.4	829.2	2,073.0	103.7
	EROSION CONTROL TYPE 3	17			5,550	5,550	5,550						7.9	101.9	127.4	318.5	15.9
EC-21	EROSION CONTROL TYPE 2	118		38,160		38,160	38,160		1,600		1	43.8		700.8	876.0	2,190.1	109.5
	EROSION CONTROL TYPE 3	30			9,660	9,660	9,660						13.7	177.4	221.8	554.4	27.7
EC-22	EROSION CONTROL TYPE 2	145		46,990		46,990	46,990		3,090		1	53.9		863.0	1,078.7	2,696.9	134.8
	EROSION CONTROL TYPE 3	39			12,610	12,610	12,610						17.9	231.6	289.5	723.7	36.2
EC-23	EROSION CONTROL TYPE 2	126		40,890		40,890	40,890		3,550		1	46.9		751.0	938.7	2,346.8	117.3
	EROSION CONTROL TYPE 3	14			4,490	4,490	4,490						6.4	82.5	103.1	257.7	12.9
EC-24	EROSION CONTROL TYPE 2	110		35,700		35,700	35,700		3,430		1	41.0		655.6	819.6	2,048.9	102.4
	EROSION CONTROL TYPE 3	21			6,650	6,650	6,650						9.5	122.1	152.7	381.7	19.1
EC-25	EROSION CONTROL TYPE 2	114		37,000		37,000	37,000		2,225		2	42.5		679.5	849.4	2,123.5	106.2
EC-26	EROSION CONTROL TYPE 1	54		17,340		17,340	17,340		1,550		2	19.9		318.5	398.1	995.2	49.8
	EROSION CONTROL TYPE 2	8		2,670		2,670	2,670					3.1		49.0	61.3	153.2	7.7
EC-27	EROSION CONTROL TYPE 1	84		27,370		27,370	27,370		1,395		2	31.4		502.7	628.3	1,570.8	78.5
	EROSION CONTROL TYPE 3	26			8,460	8,460	8,460						12.0	155.4	194.2	485.5	24.3
EC-28	EROSION CONTROL TYPE 2	117		37,920		37,920	37,920		1,890		2	43.5		696.4	870.5	2,176.3	108.8
EC-29	EROSION CONTROL TYPE 1	55		17,900		17,900	17,900		1,880		2	20.5		328.7	410.9	1,027.3	51.4
	EROSION CONTROL TYPE 2	51		16,530		16,530	16,530					19.0		303.6	379.5	948.7	47.4
EC-30	EROSION CONTROL TYPE 1	36		11,540		11,540	11,540		3,080		2	13.2		211.9	264.9	662.3	33.1
	EROSION CONTROL TYPE 2	38		12,270		12,270	12,270					14.1		225.3	281.7	704.2	35.2
	EROSION CONTROL TYPE 3	20			6,330	6,330	6,330						9.0	116.3	145.3	363.3	18.2
EC-31	EROSION CONTROL TYPE 1	2				600	600		200			0.7		11.0	13.8	34.4	1.7
EC-32	EROSION CONTROL TYPE 3	5			1,500	1,500	1,500						2.1	27.5	34.4	86.1	4.3
EC-33	EROSION CONTROL TYPE 3	13			4,200	4,200	4,200						6.0	77.1	96.4	241.0	12.1
EC-34	EROSION CONTROL TYPE 1	1			250	250	250		350					4.6	5.7	14.3	0.7
	EROSION CONTROL TYPE 3	7			2,250	2,250	2,250						3.2	41.3	51.7	129.1	6.5
EC-35	EROSION CONTROL TYPE 1	2				610	610		210			0.7		11.2	14.0	35.0	1.8
EC-36	EROSION CONTROL TYPE 1	39				12,640	12,640		1,060			14.5		232.1	290.2	725.4	36.3
	EROSION CONTROL TYPE 3	33			10,680	10,680	10,680						15.2	196.1	245.2	612.9	30.6
SHEET TOTAL		1,436		304,250	57,590	464,880	464,880		28,390	4							
SHEET TOTAL ECQ-1		2,001	281	487,525	52,735	648,530	648,530	8,590	45,815	14							
TOTAL		3,437	281	791,775	110,325	1,113,410	1,113,410	8,590	74,205	18							

(N) - NOT A SEPARATE BID ITEM.

EROSION CONTROL QUANTITIES

ECQ-2

LAST REVISION DATE PLOTTED => 8-MAR-2022 TIME PLOTTED => 16:37

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION


INDEX OF ELECTRICAL SYSTEMS PLANS:

ELECTRICAL SYSTEMS PLAN SHEET	DESCRIPTION
E-1 TO E-5	INDEX OF ELECTRICAL SYSTEMS PLANS, NOTES, ABBREVIATIONS AND LEGEND
E-6 TO E-40	MODIFYING LIGHTING SYSTEMS
E-41 TO E-52	MODIFYING RAMP METERING SYSTEMS
E-53 TO E-73	MODIFYING TRAFFIC MONITORING STATION SYSTEMS
E-74	MODIFYING HIGH SPEED WEIGH-IN-MOTION SYSTEM
E-75 TO E-76	MODIFYING HIGHWAY ADVISORY RADIO SYSTEMS
E-77 TO E-82	MODIFYING SIGNAL AND LIGHTING SYSTEMS
E-83 TO E-84	SIGNAL AND LIGHTING (CITY)
E-85 TO E-115	FIBER OPTIC CABLE SYSTEMS
E-116 TO E-117	ELECTRICAL SYSTEMS
E-118 TO E-160	ELECTRONIC TOLL SYSTEM
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E-163 TO E-170	TEMPORARY LIGHTING SYSTEMS
E-171 TO E-203	TEMPORARY RAMP METERING SYSTEMS
E-204 TO E-244	TEMPORARY TRAFFIC MONITORING STATION SYSTEMS
ED-1 TO ED-120	ELECTRICAL SYSTEMS DETAILS
EQ-1 TO EQ-9	ELECTRICAL SYSTEMS QUANTITIES

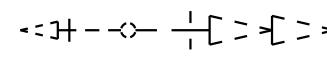
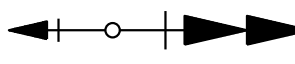
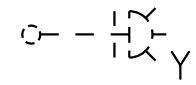
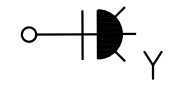
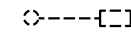
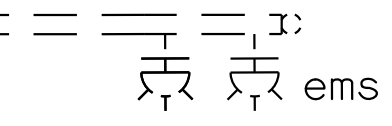






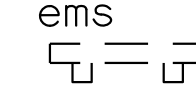

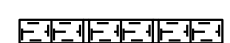

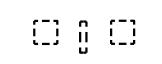

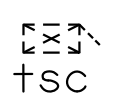
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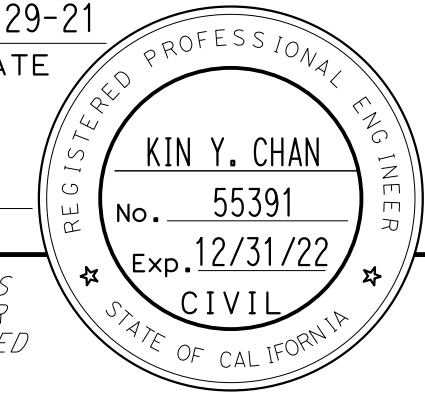
- ALL ELECTRICAL EQUIPMENT MUST BE INSTALLED Min 6' BEHIND MGS/MBGR.
- ALL TRAFFIC RATED PULL BOXES MUST BE WELDED AS SHOWN ON SHEET ED-16, UNLESS OTHERWISE NOTED.
- SEE SIGN PLANS FOR SIGN PANELS MOUNTED ON SIGNAL AND LIGHTING STANDARDS AND MAST ARMS.
- LUMINAIRES SHALL BE ROADWAY 12 WHEN INSTALLED ON TYPE 21, 21D, 30, 31 AND 32 STANDARDS, UNLESS OTHERWISE SPECIFIED. LUMINAIRES SHALL BE ROADWAY 11 WHEN INSTALLED ON OTHER TYPE STANDARDS OR POLES, UNLESS OTHERWISE SPECIFIED.

ABBREVIATIONS:

AT&T	AT&T CORPORATION
CCU	CAMERA CONTROL UNIT
ETS	ELECTRONIC TOLL SYSTEM
FDU	FIBER DISTRIBUTION UNIT
FOV	FIBER OPTIC VAULT
FPC	FIBER PIGTAIL CABLE
FTC	FIBER TRUNK LINE CABLE
HCC	HYBRID CAMERA CABLE
PCP	PRECAST CONCRETE PAVEMENT
PDA	POWER DISTRIBUTION ASSEMBLY
PEUs	DUAL PEU
PG&E	PACIFIC GAS AND ELECTRIC COMPANY
PoE	POWER OVER ETHERNET
PTZ	PAN TILT ZOOM
SLC	SCALE LEAD-IN-CABLE
SMFO	SINGLE MODE FIBER OPTIC
STC	SCREENED TRANSMISSION CABLE
TC	TELEPHONE CABLE
TSC	TRUNK SPLICE CABINET
TVC	TELEVISION CONTROL CABLE
TVCP	TELEVISION CONTROL POWER CABLE
TVL	TELEVISION VIDEO CABLE
TVP	TELEVISION POWER CABLE
VCC	VMS CONTROL CABLE (CAT5E CABLE)
VEU	VIDEO ENCODER UNIT
VMS	VARIABLE MESSAGE SIGN

LEGEND:

EXISTING	NEW	
		TYPE 1-B Std WITH RAMP METER SIGNAL. SEE DETAILS ON SHEET ED-11.
		TYPE 1-B Std WITH SINGLE YELLOW LED FLASHING BEACON. SEE DETAILS ON SHEET ED-12.
		TYPE 1-B Std WITH "METER ON" SIGNAL
		EMS WITH YELLOW LED FLASHING BEACONS ON SIGN STRUCTURE
		FIBER OPTIC VAULT. SEE SHEET ED-18 FOR DETAILS.
		FIBER OPTIC PULL BOX. SEE SHEET ED-17 FOR DETAILS.
		PULL BOX PER PG&E REQUIREMENTS
		Exist EMS ON WOOD POSTS
		VMS ON WOOD POSTS. SEE SHEETS ED-15 AND ED-25 FOR DETAILS.
		WIM BENDING PLATES
		LOOP DETECTOR WITH PİEXO AXEL SENSOR. SEE SHEET ED-24 FOR DETAILS.
		FIBER OPTIC TRUNK SPLICE CABINET

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1124	1710
			9-29-21		
REGISTERED CIVIL ENGINEER			DATE		
October 8, 2021			PLANS APPROVAL DATE		
					
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		

INDEX OF ELECTRICAL SYSTEMS PLANS, NOTES, ABBREVIATIONS AND LEGEND

**ELECTRICAL SYSTEMS
E-1**

LAST REVISION: 09-29-21 DATE PLOTTED => 8-MAR-2022 TIME PLOTTED => 16:37

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT - FUNCTIONAL SUPERVISOR
 MING YANG
 DAN K. YAU
 MY
 9-29-21
 REVISOR
 DATE
 CALCULATED-DESIGNED BY
 CHECKED BY
 TIMOTHY J. LEE
 DEPARTMENT OF TRANSPORTATION
 Et Caltrans®


LEGEND

- | | | |
|--|---|--|
| <p>1 DETECTORS MUST BE CENTERED IN EACH LANE. INSTALL DETECTOR AND SHOULDER TERMINATION USING DEEP LOOP INSTALLATION. SEE LOOP DETECTOR LAYOUT AND DEEP LOOP DETECTOR DETAILS ON SHEETS ED-13 AND ED-14.</p> <p>2 INSTALL EQUIPMENT OUTSIDE CLEAR RECOVERY ZONE.</p> <p>3 DETECTORS MUST BE CENTERED IN EACH LANE AND MUST BE INSTALLED 14' APART (20' CENTER TO CENTER). INSTALL DETECTOR AND SHOULDER TERMINATION USING DEEP LOOP INSTALLATION. SEE LOOP DETECTOR LAYOUT AND DEEP LOOP DETECTOR DETAILS ON SHEETS ED-13 AND ED-14.</p> <p>4 INSTALL 17" x 30" x 26" PULL BOX. COVER SHALL BE MARKED AS "PG&E".</p> <p>5 RC Exist LOOPS IN THESE LANES. INSTALL NEW LOOP DETECTORS AS SHOWN.</p> <p>6 INSTALL NEW LOOP DETECTORS INTO Exist DETECTOR TERMINATION CONDUIT.</p> <p>7 Exist 3"C, 2#6 (240 V Ltg), 2#6 (120 V RM DIAGONAL), 2#6 (120 V RM LOOP), 2#10 (120 V TDC), 2#10 (120 V RRFB), 3#14 (PEU). ADD 2#4 (120 V HAR VMS CONTROLLER).</p> <p>8 ADD 30 A, 120 V, 1P CB IN ONE EMPTY SLOT IN Exist SERVICE EQUIPMENT ENCLOSURE FOR HAR VMS CONTROLLER. SEE WIRING DIAGRAM ON SHEET ED-5.</p> <p>9 RC Exist HPS Lum. INSTALL Rdwy 2 LED Lum TO Exist LIGHTING Std.</p> <p>10 Exist MODEL 170 CONTROLLER ASSEMBLY WITH MODEL 334 CABINET.</p> <p>11 Exist MODEL 2070 CONTROLLER ASSEMBLY WITH MODEL 334 CABINET.</p> <p>12 2"C, 3#8 (120 V HAR VMS)
2"C, 1 VCC</p> <p>13 COODINATE WITH PG&E FOR SERVICE DISCONNECT.</p> <p>14 Exist 1 1/2"C, 2#6 (240 V Ltg).</p> <p>15 Exist 2"C, 2#6 (240 V Ltg).</p> <p>16 Exist 2"C, 2#4 (240 V Ltg).</p> <p>17 2"C, 2#6 (240 V Ltg).</p> <p>18 Exist 3"C, 2#2 (120 V RM), 2#4 (240 V TOS PANEL), 2#4 (120 V CAMERA SYSTEM), 2#4 (240 V Ltg), 2#6 (240 V Ltg), 2#10 (120 V TDC).</p> <p>19 Exist 2"C, 3#2 (SERVICE).</p> <p>20 Exist 3"C, 3#1/0 (120/240 V SERVICE) FROM MAIN PANEL.</p> <p>21 2"C, 2#4 (240 V Ltg).</p> <p>22 Exist 2"C, 2#6 (240 V Ltg), 2#4 (120 V RM), 2#4 (120 V TMS), 3#14 (PEU).</p> <p>23 INSTALL TYPE 1-B STANDARD WITH PEU.</p> <p>24 3"C, PT. DEPTH TO MEET PG&E REQUIREMENTS.</p> <p>25 SC BY PG&E. COVER SHALL BE MARKED AS "CALTRANS/PG&E". THIS IS A PG&E TERMINATION POINT.</p> <p>26 COORDINATE WITH PG&E FOR SERVICE CONNECTION.</p> <p>27 3"C, 3#2 (120/240 V SERVICE).</p> <p>28 2"C, 2#2 (240 V Ltg), 3#14 (PEU).</p> <p>29 Exist 3"C, 6#1/0 (120/240 V SERVICE) FROM MAIN PANEL.</p> <p>30 Exist 2"C, 4#4 (120 V TOS), 2#6 (120 V TOS). ADD 2#4 (240 V Ltg), 3#14 (PEU).</p> | <p>31 ADD ITEMS 5 AND 10 THROUGH 14 PER THE WIRING DIAGRAM ON SHEET ED-3 IN ONE EMPTY SLOT AND ONE KNOCKOUT IN Exist SERVICE EQUIPMENT ENCLOSURE FOR LIGHTING SYSTEM. LABEL CIRCUIT AS "LIGHTING".</p> <p>32 Exist 1 1/2"C, 2#8 (240 V Ltg).</p> <p>33 Exist 2"C, 2#8 (240 V Ltg).</p> <p>34 Exist 1 1/2"C, 2#4 (240 V Ltg).</p> <p>35 Exist 1 1/2"C, 2#4 (240 V Ltg), 2#8 (240 V Ltg).</p> <p>36 2"C, 2#8 (240 V Ltg).</p> <p>37 Exist 2"C, 2#4 (240 V Ltg), 2#8 (240 V Ltg), 3#14 (PEU).</p> <p>38 RC Exist PB. INSTALL NEW PULL BOX AS SHOWN.</p> <p>39 Exist 2"C, 2#4 (240 V TOS). ADD 2#6 (240 V Ltg), 3#14 (PEU).</p> <p>40 Exist 2"C, 2#8 (240 V Ltg), 2#4 (240 V Ltg), 2#6 (120 V RM NB), 2#6 (120 V RM SB), 2#6 (120 V CCTV), 2#6 (120 V FO LINK CABINET), 2#10 (120 V TDC), 3#14 (PEU).</p> <p>41 Exist 2"C, 2#4 (120 V RM), 2#4 (120 V TMS), 2#6 (240 V Ltg), 2#8 (240 V SIGN Ltg), 2#14 (120 V SIGN TEST SWITCH), 5#14 (PEU).</p> <p>42 Exist 2"C, 2#4 (120 V RM), 2#4 (120 V TMS), 2#6 (240 V Ltg), 2#8 (240 V SIGN Ltg), 2#14 (120 V SIGN TEST SWITCH).</p> <p>43 Exist 1 1/2"C, 2#6 (240 V Ltg), 2#8 (240 V SIGN Ltg), 2#14 (120 V SIGN TEST SWITCH).</p> <p>44 Exist 1 1/2"C, PT. ADD 2#4 (480 V Ltg).</p> <p>45 Exist 2"C, 2#4 (240 V CCTV), 2#6 (240 V TMS), 2#8 (240 V Ltg), 3#14 (PEU). ADD 2#2 (240 V Ltg Ckt 2).</p> <p>46 Exist 2"C, 2#4 (480 V CCTV), 2#8 (240 V Ltg).</p> <p>47 1 1/2"C, 2#6 (240 V Ltg).</p> <p>48 2"C, 2#2 (480 V Ltg Ckt 1).</p> <p>49 2"C, 2#2 (240 V Ltg Ckt 2).</p> <p>50 Exist 2-2 1/2"C, 2#4 (120 V TMS), 2#4 (240 V Ltg), 2#6 (120 V RM SB), 2#6 (120 V RM SB), 2#6 (120 V CCTV), 2#6 (120 V HAR), 2#10 (120 V TDC), 2#10 (120 V Irr).</p> <p>51 2"C, 2#2 (240 V Ltg).</p> <p>52 Exist 1 1/2"C, 2#6 (240 V SIGN Ltg), 2#14 (120 V TEST SWITCH).</p> <p>53 Exist 1 1/2"C, 2#8 (240 V Ltg), 2#6 (240 V SIGN Ltg), 2#14 (120 V TEST SWITCH).</p> <p>54 Exist 1 1/2"C, 2#8 (240 V Ltg), 2#6 (240 V SIGN Ltg), 2#14 (120 V TEST SWITCH), 2#6 (120 V RM).</p> <p>55 Exist 2"C, 2#8 (240 V Ltg), 2#6 (240 V SIGN Ltg), 2#14 (120 V TEST SWITCH), 2#6 (120 V RM), 3#14 (PEU). ADD 2#2 (240 V Ltg).</p> <p>56 ADD 30 A, 240 V, 2P CB (LIGHTING) IN TWO KNOCKOUTS AND CONNECT TO METERED SIDE AND USE Exist SPARE 65 A, 3P CONTACTOR IN Exist SERVICE EQUIPMENT ENCLOSURE FOR LIGHTING SYSTEM. SEE WIRING DIAGRAM ON SHEET ED-6.</p> <p>57 Exist 1 1/2"C, 2#8 (240 V Ltg), 2#6 (240 V SIGN Ltg), 2#14 (120 V TEST SWITCH), 2#6 (120 V RM).</p> <p>58 Exist 2"C, 2#8 (240 V Ltg). ADD 2#2 (240 V Ltg).</p> | <p>59 2"C, 2#4 (480 V Ltg Ckt 2).</p> <p>60 INSTALL CONDUIT UNDER SHOULDER.</p> <p>61 2"C, 2#4 (240 V Ltg), 2#10 (120 V Irr).</p> <p>62 Exist 3"C, 4#4 (240 V Ltg), 4#4 (120 V Irr), 3#14 (PEU).</p> <p>63 Exist 2 1/2"C, 4#4 (240 V Ltg), 4#4 (120 V Irr).</p> <p>64 Exist 1 1/2"C, 2#4 (240 V Ltg), 2#8 (480 V DECK HEATING SYSTEM).</p> <p>65 Exist 2"C, 2#4 (240 V Ltg), 2#4 (120 V Irr), 2#4 (SPARE), 2#6 (SPARE), 2#14 (SPARE).</p> <p>66 Exist 2"C, 2#4 (240 V Ltg), 2#4 (120 V Irr), 2#6 (SPARE), 2#14 (SPARE).</p> <p>67 Exist 1 1/2"C, 2#6 (480 V Ltg).</p> <p>68 Exist 2"C, 4#6 (480 V Ltg).</p> <p>69 Exist 1 1/2"C, 2#6 (240 V Ltg), 3#14 (PEU).</p> <p>70 Exist 2"C, 2#4 (240 V Ltg), 2#10 (120 V Irr), 3#14 (PEU).</p> <p>71 Exist 2"C, 2#4 (240 V Ltg), 2#10 (120 V Irr).</p> <p>72 1 1/2"C, 2#4 (240 V Ltg).</p> <p>73 Exist 2"C, 2#6 (240 V Ltg), 4#4 (120 V TMS), 2#10 (120 V Irr), 3#14 (PEU).</p> <p>74 2"C, 2#2 (480 V Ltg Ckt 1), 2#4 (480 V Ltg Ckt 2).</p> <p>75 FURNISH AND INSTALL 15 kVA (240 V TO 480 V) STEP-UP Xfmr IN NEMA 3R ENCLOSURE WITH LOUVERS. SEE SHEET ED-9 FOR NEMA ENCLOSURE AND FOUNDATION DETAILS.</p> <p>76 2"C, 2#2 (240 V Xfmr PRIMARY).</p> <p>77 2"C, 3#2 (240/480 V Xfmr SECONDARY).</p> <p>78 2"C, 2#2 (480 V Ltg Ckt 1), 2#4 (480 V Ltg Ckt 2), 3#14 (PEU).</p> <p>79 2"C, 2#4 (480 V Ltg), 3#14 (PEU).</p> <p>80 2"C, 2#4 (480 V Ltg).</p> <p>81 INSTALL Fdn FOR TYPE 21 Std ON BARRIER FOR FUTURE USE.</p> <p>82 Exist 1 1/2"C, 3#10 (120 V FB).</p> <p>83 Exist 1 1/2"C, 3#10 (120 V FB), 2 DLC.</p> |
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1125	1710
			9-29-21		
REGISTERED CIVIL ENGINEER			DATE		
			October 8, 2021		
			PLANS APPROVAL DATE		
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		

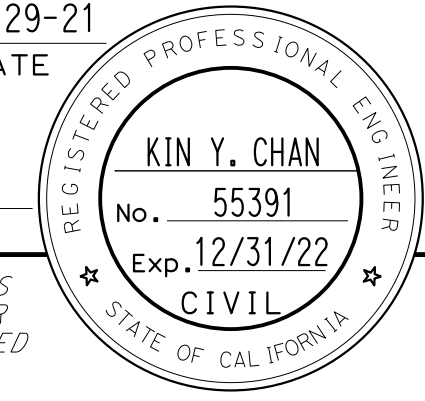
ELECTRICAL SYSTEMS
E-2

LAST REVISION: DATE PLOTTED => 8-MAR-2022
 09-29-21 TIME PLOTTED => 16:37

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION


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|---|---|--|
| <p>84 Exist 2-3"C, 2#2 (120 V RM), 3#10 (120 V FB), 9#14 (RM SIGNAL), 1#8(N), 21 DLC. [RC]11 DLC. ADD 11 DLC.</p> <p>85 Exist 3"C, 2#2 (120 V RM), 2#4 (120 V CCTV), 9#14 (RM SIGNAL), 1#8(N), 19 DLC. [RC] 11 DLC. ADD 11 DLC.</p> <p>86 Exist 3"C, 2#2 (120 V RM), 2#4 (120 V CCTV), 9#14 (RM SIGNAL), 1#8(N), 2 DLC.</p> <p>87 Exist 3"C, 2#2 (120 V RM), 2#4 (120 V CCTV), 9#14 (RM SIGNAL), 1#8(N).</p> <p>88 Exist 2"C, 2#2 (120 V RM), 2#4 (120 V CCTV).</p> <p>89 Exist 2"C, 9#14 (RM SIGNAL), 1#8(N).</p> <p>90 3"C, 11 DLC.</p> <p>91 2"C, 9 DLC.</p> <p>92 2"C, 5 DLC.</p> <p>93 2"C, 1 DLC.</p> <p>94 Exist 1½"C, 3#10 (120 V FB), 1 DLC.</p> <p>95 Exist 1½"C, 1 DLC.</p> <p>96 Exist 1½"C, 2#6 (120 V RM).</p> <p>97 Exist 2"C, 2#6 (120 V RM), 1 DLC.</p> <p>98 Exist 2"C, 2#6 (120 V RM), 3#10 (120 V FB), 2 DLC.</p> <p>99 Exist 2"C, 2#6 (120 V RM), 3#10 (120 V FB), 3 DLC.</p> <p>100 Exist 1½"C, 2#10 (120 V FB).</p> <p>101 Exist 1½"C, 2#10 (120 V FB). ADD 1 DLC.</p> <p>102 Exist 1½"C, 2#10 (120 V FB). ADD 2 DLC.</p> <p>103 Exist 2"C, 2#10 (120 V FB), 1 DLC. [RC]1 DLC. ADD 2 DLC.</p> <p>104 Exist 2-3"C, 2#6 (120 V RM), 2#10 (120 V FB), 6#14 (RM SIGNAL), 1#8(N), 10 DLC. [RC]10 DLC. ADD 13 DLC.</p> <p>105 Exist 3"C, 2#6 (120 V RM), 6#14 (RM SIGNAL), 1 #8(N), 9 DLC. [RC]9 DLC. ADD 11 DLC.</p> <p>106 Exist 1½"C, 1 DLC. [RC]1 DLC. ADD 1 DLC.</p> <p>107 3"C, 6#14 (RM SIGNAL), 1#8(N), 11 DLC.</p> <p>108 INSTALL TYPE 1-B S+d WITH RM SIGNAL. SEE DETAIL "SIG" ON SHEET ED-11.</p> <p>109 2"C, 4 DLC.</p> <p>110 3"C, 14 DLC.</p> <p>111 2"C, 6 DLC.</p> <p>112 Exist 3"C, 9#14 (RM SIGNAL), 1#8(N), 10 DLC. [RC]2 DLC. ADD 10 DLC.</p> <p>113 Exist 2"C, 9#14 (RM SIGNAL), 1#8(N), 2 DLC.</p> <p>114 Exist 3"C, 9#14 (RM SIGNAL), 1#8(N), 2 DLC.</p> <p>115 INSTALL FOUR DEPARTMENT-FURNISHED LOOP DETECTOR SENSOR UNITS IN Exist CONTROLLER CABINET.</p> | <p>116 Exist 2-3"C, 2#6 (120 V RM), 3#10 (120 V FB), 9#14 (RM SIGNAL), 1#8(N), 13 DLC. [RC] 2 DLC. ADD 10 DLC.</p> <p>117 INSTALL ONE DEPARTMENT-FURNISHED LOOP DETECTOR SENSOR UNIT IN Exist CONTROLLER CABINET.</p> <p>118 PULL OUT AND COIL Exist DLCs FOR MAINLINE LOOP DETECTORS TO THIS PULL BOX. INSTALL TO NEW CONDUIT AND SPLICE TO NEW LOOP DETECTORS AS INDICATED ON THE PLANS.</p> <p>119 Exist 3"C, 9#14 (RM SIGNAL), 1#8(N), 10 DLC. [RC]6 DLC. ADD 8 DLC.</p> <p>120 Exist 2-3"C. 2#6 (120 V RM), 3#10 (120 V FB), 9#14 (RM SIGNAL), 1#8(N). 15 DLC. [RC]6 DLC. ADD 8 DLC.</p> <p>121 Exist 2"C, 2#6 (120 V RM), 3#10 (120 V FB), 5 DLC.</p> <p>122 Exist 2"C, 2#6 (120 V RM), 2#6 (120 V CCTV), 2#6 (120 V EMS).</p> <p>123 Exist 2"C, 2#6 (120 V RM), 2#6 (120 V CCTV), 2#6 (120 V EMS), 2#6 (120 V RM).</p> <p>124 Exist 2"C, 2#6 (120 V RM).</p> <p>125 Exist 3"C, 9#14 (RM SIGNAL), 1#8(N), 10 DLC. [RC]2 DLC. ADD 2 DLC.</p> <p>126 Exist 3"C, 3#10 (120 V FB), 9#14 (RM SIGNAL), 1#8(N), 10 DLC. [RC]2 DLC. ADD 2 DLC.</p> <p>127 Exist 3"C, 2#6 (120 V RM), 3#10 (120 V FB), 12#14 (RM SIGNAL), 1#8(N), 13 DLC. [RC] 2 DLC. ADD 2 DLC.</p> <p>128 2"C, 2 DLC.</p> <p>129 Exist 2"C, 6#14 (RM SIGNAL), 1#8(N), 8 DLC. [RC]2 DLC. ADD 2 DLC.</p> <p>130 2"C, 8 DLC.</p> <p>131 Exist 2"C, 1 DLC.</p> <p>132 Exist 2"C, 6 DLC. [RC]2 DLC. ADD 2 DLC.</p> <p>133 Exist 3"C, 6#14 (RM SIGNAL), 1#8(N), 9 DLC. [RC]2 DLC. ADD 2 DLC.</p> <p>134 Exist 1½"C, 3#14 (120 V FB).</p> <p>135 Exist 2"C, 6#14 (RM SIGNAL), 1#8(N), 2 DLC.</p> <p>136 Exist 2"C, 6#14 (RM SIGNAL), 1#8(N), 8 DLC. [RC]6 DLC. ADD 8 DLC.</p> <p>137 Exist 2"C, 6#14 (RM SIGNAL), 1#8(N), 10 DLC. [RC]6 DLC. ADD 8 DLC.</p> <p>138 Exist 1½"C, 1 TC.</p> <p>139 Exist 2"C, 1 TC.</p> <p>140 Exist 2-3"C, 2#6 (120 V RM), 3#10 (120 V FB), 9#14 (RM SIGNAL), 1#8(N), 12 DLC, 1 HCC. [RC]6 DLC. ADD 8 DLC.</p> <p>141 Exist 2"C, 4#6 (120 V RM), 3#10 (120 V FB), 2 DLC. ADD 2#4 (120 V HAR VMS CONTROLLER),</p> <p>142 Exist 2"C, 4#6 (120 V RM). ADD 2#4 (120 V HAR VMS CONTROLLER),</p> <p>143 Exist 2"C, 4#6 (120 V RM), 3#10 (120 V FB). ADD 2#4 (120 V HAR VMS CONTROLLER).</p> <p>144 Exist 2"C, 2#6 (120 V RM). ADD 2#4 (120 V HAR VMS CONTROLLER).</p> <p>145 Exist 2"C, 2#6 (120 V RM), 9#14 (RM SIGNAL), 1#8(N). ADD 2#4 (120 V HAR VMS CONTROLLER).</p> | <p>146 Exist 3"C, 2#6 (120 V RM), 9#14 (RM SIGNAL), 1#8(N), 12 DLC. [RC] 4 DLC. ADD 6 DLC.</p> <p>147 Exist 2-3"C, 2#6 (120 V RM), 3#14 (120 V FB), 9#14 (RM SIGNAL), 1#8(N), 14 DLC. [RC]2 DLC. ADD 4 DLC.</p> <p>148 Exist 3"C, 6#14 (RM SIGNAL), 1#8(N), 10 DLC. [RC]4 DLC. ADD 2#4 (120 V HAR VMS CONTROLLER), 6 DLC.</p> <p>149 Exist 2"C, 8 DLC. [RC]4 DLC. ADD 2#4 (120 V HAR VMS CONTROLLER), 4 DLC.</p> <p>150 Exist 1½"C, 2 DLC. [RC]2 DLC. ADD 2#4 (120 V HAR VMS CONTROLLER), 2 DLC.</p> <p>151 Exist 2"C, 2 DLC.</p> <p>152 2"C, 9#14 (RM SIGNAL), 1#8(N).</p> <p>153 INSTALL TYPE 28-5-100 (Mod) SIGNAL S+d WITH 50' SMA AND RM SIGNAL EQUIPMENT. SEE SHEET ED-10 FOR DETAILS.</p> <p>154 Exist 3"C, 9#14 (RM SIGNAL), 1#8(N), 12 DLC. [RC]10 DLC. ADD 12 DLC.</p> <p>155 INSTALL AWD-I TYPE 1-B (Mod) S+d WITH YELLOW LED FB AND FBCA. SEE SHEET ED-12 FOR DETAILS.</p> <p>156 INSTALL AWD-II TYPE 1-B (Mod) S+d WITH YELLOW LED FB AND FBCA. SEE SHEET ED-12 FOR DETAILS.</p> <p>157 2"C, 2#10 (120 V FB).</p> <p>158 Exist 3"C, 9#14 (RM SIGNAL), 1#8(N), 12 DLC. [RC]10 DLC. ADD 2#10 (120 V FB), 12 DLC.</p> <p>159 Exist 2"C, 4#4 (120 V RM), 2#4 (120 V TMS/CCTV), 2#6 (120 V HAR), 2#10 (120 V TDC). ADD 2#4 (120 V FO HUB).</p> <p>160 Exist 2-3"C, 2#4 (120 V RM), 2#10 (120 V METER ON), 9#14 (RM SIGNAL), 16 DLC. [RC]12 DLC. ADD 14 DLC.</p> <p>161 Exist 1½"C, 2#10 (120 V TDC).</p> <p>162 3"C, 4#4 (120 V RM), 2#4 (120 V TMS/CCTV), 2#4 (120 V FO HUB), 2#6 (120 V HAR).</p> <p>163 2"C, 2#6 (120 V HAR), 2#4 (120 V RM), 2 DLC.</p> <p>164 Exist 1½"C, 3#6 (120 V EMS).</p> <p>165 1½"C, 3#6 (120 V EMS).</p> <p>166 2"C, 3#6 (120 V EMS).</p> |
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1126	1710
			9-29-21		
REGISTERED CIVIL ENGINEER			DATE		
			October 8, 2021		
			PLANS APPROVAL DATE		
					
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		

ELECTRICAL SYSTEMS

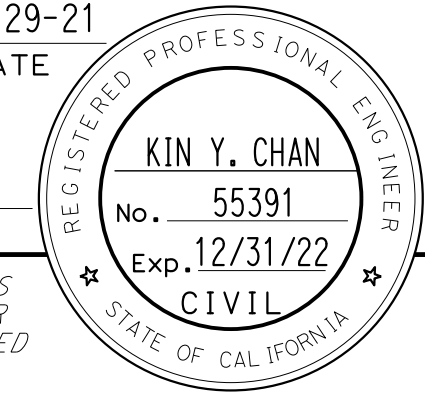
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LAST REVISION DATE PLOTTED => 8-MAR-2022
 09-29-21 TIME PLOTTED => 16:37

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION


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| <p>167 Exist 1 1/2"C, 3#4 (120 V EMS).</p> <p>168 DETECTORS MUST BE CENTERED IN EACH LANE AND MUST BE INSTALLED 14' APART (20' CENTER TO CENTER). SEE DETECTORS ON JPCP/PCP PANEL DETAILS ON SHEET ED-13.</p> <p>169 3"C, 12 DLC.</p> <p>170 Exist 2"C, 2#4 (120 V RM), 2#4 (120 V TMS/CCTV).</p> <p>171 Exist 1 1/2"C, 3#4 (120 V EMS), 4 DLC.</p> <p>172 Exist 1 1/2"C, 2#4 (120 V RM), 2#4 (120V TMS/CCTV), 3#4 (120 V EMS), 4 DLC.</p> <p>173 Exist 1 1/2"C, 2#4 (120 V RM), 3#4 (120 V EMS), 4 DLC.</p> <p>174 Exist 1 1/2"C, 2#4 (120 V TMS/CCTV).</p> <p>175 ADD 30 A, 120 V, 1P CB IN ONE EMPTY SLOT IN Exist SERVICE EQUIPMENT ENCLOSURE FOR FO HUB. SEE WIRING DIAGRAM ON SHEET ED-7.</p> <p>176 Exist 1 1/2"C, 2#4 (120 V RM).</p> <p>177 Exist 2"C, 2#10 (120 V FB).</p> <p>178 Exist 1 1/2"C, 2#10 (120 V FB), 1 DLC.</p> <p>179 Exist 1 1/2"C, 2#10 (120 V FB), 2 DLC.</p> <p>180 Exist 1 1/2"C, 1 DLC. ADD 2#10 (120 V FB).</p> <p>181 Exist 2-3"C, 2#4 (120 V RM), 12#14 (RM SIGNAL), 1#8(N), 24 DLC. RC 22 DLC. ADD 2#10 (120 V FB), 24 DLC.</p> <p>182 CONTROLLER ASSEMBLY IS A PART OF BID ITEM "MODIFYING HIGHWAY ADVISORY RADIO SYSTEMS".</p> <p>183 Exist 2-3"C, 2#4 (120 V RM), 2#14 (120 V METER ON), 26#14 (RM SIGNAL), 1#8(N), 1 HCC, 17 DLC. RC 4 DLC. ADD 4 DLC.</p> <p>184 Exist 2-3"C, 26#14 (RM SIGNAL), 1#8(N), 14 DLC. RC 4 DLC. ADD 4 DLC.</p> <p>185 Exist 2"C, 2#6 (240 V Ltg). RC 2#6. ADD 2#6.</p> <p>186 Exist 2"C, 8 DLC. RC 4 DLC. ADD 4 DLC.</p> <p>187 Exist 2"C, 2#4 (120 V RM).</p> <p>188 2"C, 2#4 (120 V RM).</p> <p>189 Exist 3"C, PT. ADD 2#4 (120 V RM).</p> <p>190 Exist 3"C, 24#14 (RM SIGNAL), 1#8(N), 14 DLC. RC 8 DLC. ADD 10 DLC.</p> <p>191 Exist 2-3"C, 2#4 (120 V RM), 2#10 (120 V FB), 24#14 (RM SIGNAL), 1 TC, 19 DLC. RC 8 DLC. ADD 10 DLC.</p> <p>192 Exist 2"C, 1 TC, 2 DLC. ADD 2#10 (120 V FB).</p> <p>193 Exist 2"C, 2#10 (120 V FB).</p> <p>194 Exist 2"C, 2#10 (120 V METER ON), 3 DLC.</p> <p>195 Exist 2"C, 2#1/0 (120/240 V SERVICE).</p> <p>196 Exist 2"C, 2#1/0 (120/240 V SERVICE), 2#4 (120 V RM).</p> <p>197 Exist 2 1/2"C, 10 DLC. RC 6 DLC.</p> <p>198 Exist 2 1/2"C, 12 DLC. RC 6 DLC. ADD 6 DLC.</p> | <p>199 Exist 2 1/2"C, 2#4 (120 V RM), 14 DLC. RC 6 DLC. ADD 6 DLC.</p> <p>200 Exist 3"C, 2#4 (120 V RM), 14 DLC. RC 6 DLC. ADD 6 DLC.</p> <p>201 Exist 2-3"C, 2#4 (120 V RM), 16 DLC. RC 6 DLC. ADD 6 DLC.</p> <p>202 3"C, 22 DLC.</p> <p>203 2"C, 2#4 (120 V RM).</p> <p>204 3"C, 2#4 (120 V RM), 9#14 (RM SIGNAL), 1#8(N).</p> <p>205 THIS WORK IS A PART OF BID ITEM "MODIFYING LIGHTING SYSTEMS".</p> <p>206 2"C, 2#4 (120 V RM), 12#14 (RM SIGNAL), 1#8(N).</p> <p>207 INSTALL TYPE 23-4-100 (Mod) SIGNAL Std WITH 30' SMA AND SIGNAL EQUIPMENT. SEE SHEET ED-10 FOR DETAILS.</p> <p>208 Exist 2-3"C, 2#4 (120 V RM), 3#14 (120 V FB), 6#14 (RM SIGNAL), 1#8(N), 10 DLC. RC 2 DLC. ADD 2 DLC.</p> <p>209 Exist 2"C, 6 DLC.</p> <p>210 Exist 2"C, 2#4 (240 V TOS PANEL).</p> <p>211 Exist 2"C, 2#4 (480 V TOS PANEL).</p> <p>212 Exist PB WITH 2 kVA (480 V TO 120 V) STEP-DOWN SUBMERSIBLE TYPE Xfmr.</p> <p>213 Exist 2-3"C, 2#6 (120 V TMS), 14 DLC. RC 8 DLC. ADD 8 DLC.</p> <p>214 Exist 2"C, 1 TC
Exist 3"C, 1-72 STRAND SMFO CABLE. ADD 1-12 STRAND SMFO CABLE.</p> <p>215 2"C, 2#4 (120 V HAR CONTROLLER).</p> <p>216 Exist 3"C, 1-72 STRAND SMFO CABLE.</p> <p>217 Exist 2"C, 1-72 STRAND SMFO CABLE.</p> <p>218 PULL OUT Exist 1-72 STRAND SMFO CABLE TO THIS PULL BOX. REINSTALL FO CABLE TO NEW CONDUIT AS SHOWN ON THE PLAN.</p> <p>219 2"C, 2#4 (480 V TOS PANEL).</p> <p>220 2"C, INSTALL Exist 1-72 STRAND SMFO CABLE.</p> <p>221 Exist 2"C, 1-72 STRAND SMFO CABLE. PULL OUT AND REINSTALL Exist 1-72 STRAND SMFO CABLE.</p> <p>222 RC Exist BENDING PLATE SCALES. AB Exist LOOP DETECTORS.</p> <p>223 Exist 2"C, 1-12 STRAND SMFO CABLE.</p> <p>224 Exist 2-3"C, 2#6 (120 V CMS), HARNESS CABLES #4 AND #5.</p> <p>225 Exist 2"C, 2#6 (120 V CCTV), 2#6 (120 V CMS), 2#6 (240 V CMS PANEL).</p> <p>226 Exist 2"C, 2#6 (120 V CCTV), 2#6 (120 V CMS).</p> <p>227 Exist 2-3"C, 2#6 (120 V CCTV/TMS), 1 HCC, 12 DLC. RC 8 DLC. ADD 10 DLC.</p> <p>228 Exist 3"C, 12 DLC. RC 8 DLC. ADD 10 DLC.</p> <p>229 2"C, 10 DLC.</p> <p>230 Exist 2-3"C, 2#6 (120 V TMS), 12 DLC. RC 8 DLC. ADD 10 DLC.</p> | <p>231 Exist 2"C, 2#6 (120 V TMS).</p> <p>232 Exist 2"C, 2#4 (480 V TOS).</p> <p>233 Exist 2-3"C, 2#6 (120 V TMS), 8 DLC. RC 2 DLC. ADD 2 DLC.</p> <p>234 Exist 2"C, 2#4 (120 V TMS).</p> <p>235 Exist 2-3"C, 2#4 (120 V TMS), 12 DLC. RC 12 DLC. ADD 14 DLC.</p> <p>236 Exist 2"C, 2#2 (480 V CMS), 2#4 (480 V TMS/CCTV).</p> <p>237 Exist 2"C, 2#8 (120 V FO LINK CABINET), 2#8 (120 V TDC).</p> <p>238 Exist 3"C, 10 DLC. RC 4 DLC. ADD 4 DLC.</p> <p>239 2"C, INSTALL Exist 4 DLC.</p> <p>240 Exist 2"C, 8 DLC. RC 4 DLC. ADD 6 DLC.</p> <p>241 Exist 2"C, 2#6 (120 V TMS), 8 DLC. RC 4 DLC. ADD 6 DLC.</p> <p>242 Exist 2-3"C, 2#6 (120 V TMS), 10 DLC. RC 4 DLC. ADD 6 DLC.</p> <p>243 Exist 1 1/2"C, 2#4 (120 V TMS).</p> <p>244 Exist 2-3"C, 2#4 (120 V TMS), 1 HCC, 1 TVP, 1 TVCP, 1 TVC, 1 TVL, 12 DLC. RC 4 DLC. ADD 4 DLC.</p> <p>245 Exist 2-3"C, 2#4 (120 V TMS), 4 DLC. RC 4 DLC. ADD 4 DLC.</p> <p>246 2"C, 2#4 (120 V TMS), 2#4 (120 V FO HUB), 4 DLC.</p> <p>247 Exist 2-3"C, 2#4 (120 V TMS), 20 DLC. RC 14 DLC. ADD 16 DLC.</p> <p>248 Exist 2-3"C, 2#4 (120 V TMS), 20 DLC. RC 16 DLC. ADD 18 DLC.</p> <p>249 3"C, 2#4 (120 V TMS).</p> <p>250 Exist 3"C, 20 DLC. RC 14 DLC. ADD 16 DLC.</p> <p>251 Exist 2-3"C, 2#6 (120 V HAR), 1 ANTENNA COAXIAL CABLE.</p> <p>252 INSTALL VMS ASSEMBLY, NEMA 3R ENCLOSURE AND SCA ON WOOD POSTS. SEE SHEETS ED-15 AND ED-25 FOR DETAILS.</p> <p>253 INSTALL DEPARTMENT-FURNISHED MODEL 2070E CONTROLLER UNIT IN CONTRACTOR-FURNISHED COMPLETELY WIRED MODEL 334 CABINET. FRONT DOOR SHALL FACE NORTH.</p> |
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1127	1710
			9-29-21		
REGISTERED CIVIL ENGINEER			DATE		
			October 8, 2021		
			PLANS APPROVAL DATE		
					
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		

ELECTRICAL SYSTEMS

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LAST REVISION DATE PLOTTED => 8-MAR-2022 09-29-21 TIME PLOTTED => 16:37

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- 254 3"C, 2#4 (120 V HAR CONTROLLER), 3#8 (120 V HAR VMS).
3"C, 1 VCC.
- 255 INSTALL BENDING PLATE SCALES AND CONDUITS IN Exist PCC. SEE DETAILS ON SHEET ED-22 AND ED-23.
- 256 SAWCUT 6' x 6' LOOP DETECTORS (CENTERED IN EACH LANE) IN Exist JPCP. SEE DETECTORS ON JPCP/PCP PANEL DETAILS ON SHEET ED-13.
- 257 Exist 2"C, 2#6 (120 V SIGNAL), 2#8 (240 V Ltg), 4#14 (120 V IISNS), 3#14 (PEU).
- 258 Exist 3"C, 1-12 STRAND SMFO CABLE.
- 259 Exist MODEL 2070 CONTROLLER ASSEMBLY IN MODEL 332 CABINET.
- 260 Exist MODEL 2070 CONTROLLER ASSEMBLY IN TYPE M CABINET.
- 261 4-1/2"C, 1-288 STRAND SMFO CABLE. SEE DETAIL A TYPE B ON SHEET ED-19.
- 262 3"C, 1-12 STRAND SMFO CABLE.
- 263 INSTALL FIBER OPTIC VAULT WITH FO SPLICE ENCLOSURE. SEE SHEET ED-18 FOR DETAILS.
- 264 INSTALL FIBER OPTIC PULL BOX. SEE SHEET ED-17 FOR DETAILS.
- 265 Exist 2"C, PT. ADD 1-12 STRAND SMFO CABLE.
- 266 INSTALL FDU FOR 12 STRAND FO CABLE, FO PATCH CABLES AND EDGE ETHERNET SWITCH IN CONTROLLER CABINET. SEE SHEET ED-11 FOR DETAILS.
- 267 Exist 2"C, 2#6 (120 V CCTV), 2#6 (120 V FO LINK CABINET), 2#10 (120 V TDC).
- 268 Exist 2"C, 2#6 (120 V FO LINK CABINET).
- 269 Exist 3"C, 1-72 STRAND SMFO CABLE. ADD 1-12 STRAND SMFO CABLE.
- 270 3"C TYPE 1, 1-288 STRAND SMFO CABLE. SURFACE MOUNT CONDUIT TO THE SIDE OF THE Exist BRIDGE STRUCTURE. SEE SHEETS ED-103 AQND ED-104 FOR DETAILS.
- 271 Exist 2"C, 1 TC. ADD 1-12 STRAND SMFO CABLE.
- 272 Exist 2"C, 2 TC. ADD 1-12 STRAND SMFO CABLE, 1 CAT5E CABLE.
- 273 INSTALL TWO DEPARMENT-FURNISHED LOAD SWITCHES FOR RM SIGNAL IN Exist CABINET.
- 274 INSTALL TYPE 60-5-100 (Mod) SIGNAL S+d WITH 50' SMA AND RM SIGNAL EQUIPMENT. SEE SHEET ED-10 FOR DETAILS.
- 275 Exist 3"C, 6#14 (RM SIGNAL), 1#8(N), 10 DLC. RC 8 DLC. ADD 10 DLC.
- 276 Exist 2"C, 8 DLC. RC 8 DLC. ADD 10 DLC.
- 277 Exist FO SPLICE ENCLOSURE IN TYPE P CABINET.
- 278 Exist 2-3"C, 2#6 (120 V CCTV), 1 HCC. ADD 6#8 (120 V HAR VMS), 2 VCC.
- 279 Exist MODEL 170 CONTROLLER ASSEMBLY. RS Exist MODEL 170 CONTROLLER UNIT. INSTALL DEPARTMENT-FURNISHED MODEL 2070E CONTROLLER UNIT.
- 280 Exist WIM CONTROLLER ASSEMBLY IN MODEL 334 CABINET.
- 281 Exist 2-3"C, 1 STC, 6 SLC, 8 DLC. RC 1 STC, 3 SLC, 2 DLC. ADD 2 STC, 3 SLC, 4 DLC.
- 282 INSTALL PREFORMED LOOP DETECTORS AND PIEZO AXLE SENSOR IN PCP. SEE DETAILS ON SHEET ED-24.
- 283 COIL 100' OF 288-STRAND SMFO CABLE INSIDE FO VAULT.

- 284 INSTALL THREE DEPARMENT-FURNISHED LOAD SWITCHES FOR RM SIGNAL IN Exist CABINET.
- 285 Exist 1/2"C, PT. ADD 3#8 (120 V HAR VMS), 1 VCC.
- 286 Exist 2"C, 2#6 (120 V HAR). ADD 3#8 (120 V HAR VMS), 1 VCC.
- 287 2"C, 1 CAT5E CABLE.
- 288 THIS WORK IS A PART OF BID ITEM "MODIFYING TRAFFIC MONITORING STATION SYSTEMS".
- 289 Exist 2"C, 1 TC. ADD 1 CAT5E CABLE.
- 290 4-1/2"C, 1-288 STRAND SMFO CABLE, 1-12 STRAND SMFO CABLE. SEE DETAIL A TYPE B ON SHEET ED-19.
- 291 2"C, 2#4 (120 V TMS), 2#4 (120 V FO HUB).
- 292 Exist 1/2"C, 2#4 (120 V CCTV), 2 DLC. RC 2#4.
- 293 2"C, 2#4 (120 V FO HUB).
- 294 3"C, 1-72 STRAND SMFO CABLE.
- 295 3-3"C, 1-288 STRAND SMFO CABLE.
- 296 FURNISH AND INSTALL MODEL 344LX CONTROLLER CABINET WITH FDUs FOR 12, 72 AND 288 STRAND SMFO CABLES, FO PATCH CABLES, POWER SUPPLY, AGGREGATE ETHERNET SWITCH AND OTHER NETWORK EQUIPMENT AS REQUIRED FOR FIBER OPTIC HUB. SEE SHEET ED-20 FOR DETAILS.
- 297 2"C, 2 STC, 2 DLC.
- 298 2"C, 1-12 STRAND SMFO CABLE, 1 CAT5E CABLE.
- 299 RS Exist Rdwy 1 LED Lum. INSTALL Rdwy 11 LED Lum WITH FRONT SIDE SHIELD.
- 300 RS Exist Rdwy 2 LED Lum. INSTALL Rdwy 12 LED Lum WITH BACK SIDE SHIELD.
- 301 INSTALL Rdwy 12 LED Lum WITH BACK SIDE SHIELD.
- 302 RS Exist Rdwy 2 LED Lum. INSTALL Rdwy 12 LED Lum WITH FRONT SIDE SHIELD.
- 303 INSTALL Rdwy 12 LED Lum WITH FRONT SIDE SHIELD.
- 304 RS Exist Rdwy 1 LED Lum. INSTALL Rdwy 11 LED Lum WITH BACK SIDE SHIELD.
- 305 SEE SHEET C-68 AND C-69 FOR DETAILS.
- 306 SEE SHEETS C-53 AND C-54 FOR DETAILS.
- 307 SEE SHEETS C-55 AND C-56 FOR DETAILS.
- 308 SEE RETAINING WALL No. 213A RETAINING WALL DETAILS No. 3 FOR DETAILS.
- 309 SEE RETAINING WALL No. 213B RETAINING WALL DETAILS No. 3 FOR DETAILS.
- 310 Exist 3"C, 2#4 (120 V RM), 3#14 (120 V FB), 6#14 (RM SIGNAL), 1#8(N), 10 DLC. RC 2 DLC. ADD 2 DLC.
- 311 Exist 3"C, 2#4 (120 V RM), 3#14 (120 V FB), 1#8(N), 1 DLC.
- 312 Exist 2"C, 2#4 (120 V RM), 3#14 (120 V FB), 1#8(N), 1 DLC.
- 313 Exist 1/2"C, 2#4 (120 V RM), 3#14 (120 V FB), 1 DLC.
- 314 Exist 2-3"C, 2#4 (120 V RM), 2#10 (120 V FB), 6#14 (RM SIGNAL), 1#8(N), 14 DLC. RC 2 DLC. ADD 2 DLC.
- 315 Exist 3"C, 2#4 (120 V RM), 2#10 (120 V FB), 6#14 (RM SIGNAL), 1#8(N), 14 DLC. RC 2 DLC. ADD 2 DLC.

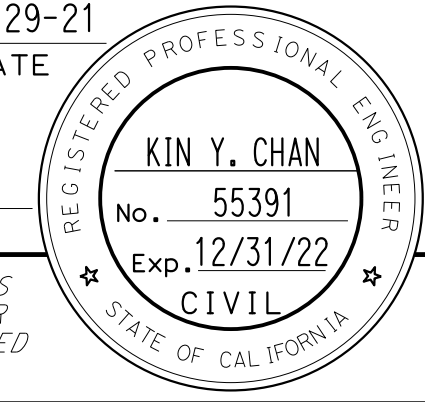
- 316 Exist 3"C, 6#14 (RM SIGNAL), 1#8(N), 8 DLC. RC 2 DLC. ADD 2 DLC.
- 317 RS Exist EMS EQUIPMENT. RC Exist WOOD POSTS.
- 318 Exist 2"C, 6 DLC. RC 3 DLC. ADD 3 DLC.
- 319 Exist 2"C, 1 TELEPHONE SERVICE CABLE.
- 320 RC Exist PB. INSTALL FIBER OPTIC PULL BOX. SEE SHEET ED-17 FOR DETAILS.
- 321 3"C, 2#2 (240 V Ltg).
- 322 SEE SHEET C-67 FOR DETAILS.
- 323 ADD 30 A, 240 V, 2P CB (LIGHTING) IN TWO EMPTY SLOTS AND CONNECT TO METERED SIDE AND USE Exist SPARE 65 A, 3P CONTACTOR IN Exist SERVICE EQUIPMENT ENCLOSURE FOR LIGHTING SYSTEM. SEE WIRING DIAGRAM ON SHEET ED-4.
- 324 INSTALL DEPARTMENT-FURNISHED ELECTRONICS ASSEMBLY FOR BBS. INSTALL CONTRACTOR-FURNISHED BBS CABINET AND 4 BATTERIES.
- 325 Exist 1/2"C, 3#2 (SERVICE).
- 326 Exist 3"C, 3#2 (SERVICE).
- 327 Exist 3"C, 4#4 (240 V Ltg), 4#4 (120 V Irr), 2#4 (SPARE), 2#6 (SPARE), 5#14 (SPARE).
- 328 Exist 3"C, 4#4 (240 V Ltg), 4#4 (120 V Irr).
- 329 Exist 3"C, 4#4 (240 V Ltg), 4#4 (120 V Irr), 2#4 (SPARE), 2#6 (SPARE), 2#14 (SPARE).
- 330 Exist 1/2"C, 2#4 (240 V Ltg), 2#6 (SPARE), 5#14 (SPARE).
- 331 Exist 1/2"C, 2#4 (240 V Ltg), 2#6 (SPARE), 2#14 (SPARE).
- 332 SEE SHEET C-42 FOR DETAILS.
- 333 SEE SHEET C-61 FOR DETAILS.
- 334 SEE SHEET C-65 FOR DETAILS.
- 335 Exist 3/2"C, 9#2 (120/240 V SERVICE).
- 336 ADD ITEMS 5 AND 10 THROUGH 14 PER THE WIRING DIAGRAM ON SHEET ED-8 IN TWO EMPTY SLOTS IN Exist SERVICE EQUIPMENT ENCLOSURE FOR LIGHTING SYSTEM. LABEL CIRCUIT AS "LIGHTING".
- 337 CONTRACTOR MUST VERIFY Exist FIBER OPTIC CABLE ASSIGNMENT AND SPLICE Exist FOC BACK TO ORIGINAL ASSIGNMENT AFTER REINSTALLATION.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1128	1710

9-29-21
REGISTERED CIVIL ENGINEER DATE

October 8, 2021
PLANS APPROVAL DATE

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ELECTRICAL SYSTEMS

E-5

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

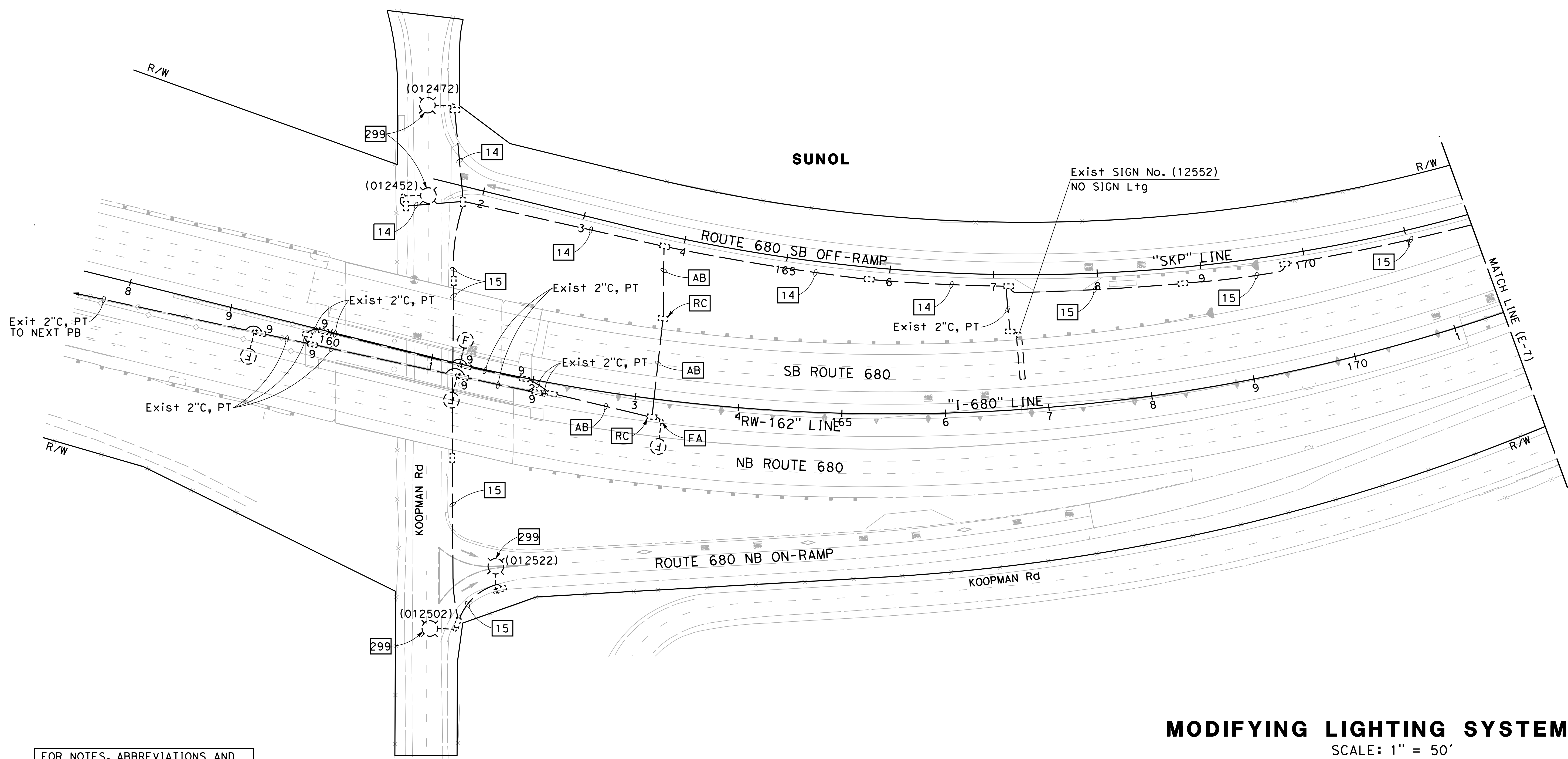
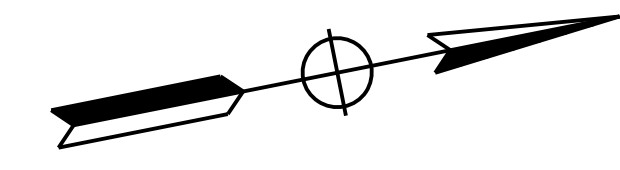
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1129	1710

REGISTERED CIVIL ENGINEER *K. Chan* DATE 9-29-21
 October 8, 2021
 PLANS APPROVAL DATE

KIN Y. CHAN
 No. 55391
 Exp. 12/31/22
 CIVIL
 STATE OF CALIFORNIA

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FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS

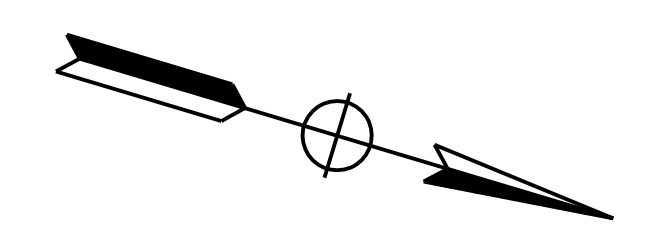
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E-6

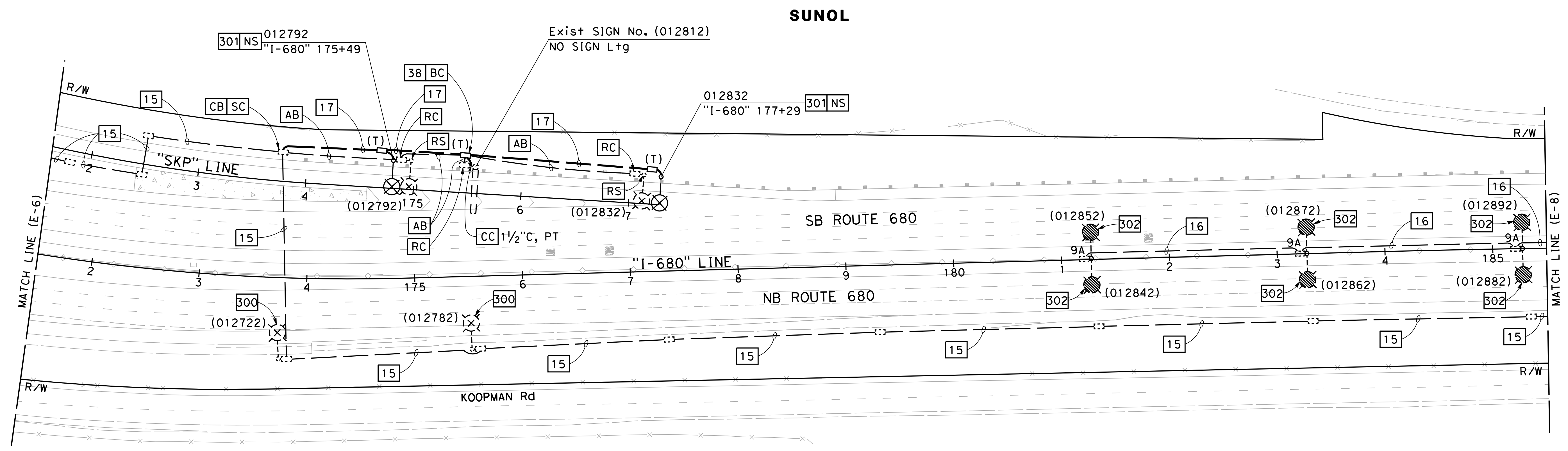
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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 REVISIONS
 MY
 9-29-21
 REVISED BY
 DATE REVISED
 MENG YANG
 DAN K. YAU
 TIMOTHY J. LEE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1130	1710
			REGISTERED CIVIL ENGINEER	DATE	
			October 8, 2021	PLANS APPROVAL DATE	
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 CONSULTANT FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 MING YANG
 DAN K. YAU
 MY
 9-29-21
 REVISOR
 DATE REVISOR
 DATE
 SUPERVISOR
 DATE



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

E-7

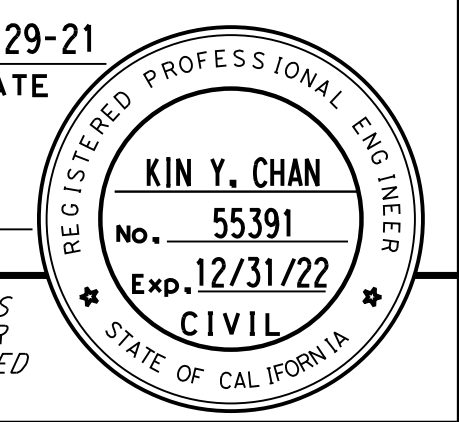
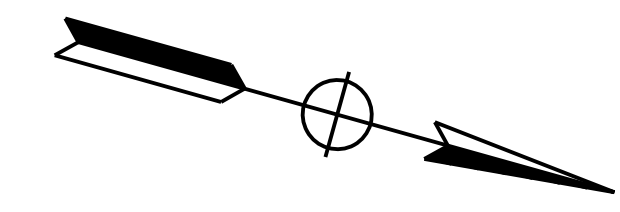
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 09-29-21
 TIME PLOTTED => 10:11:51 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1131	1710

<i>K. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE
October 8, 2021	
PLANS APPROVAL DATE	

Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
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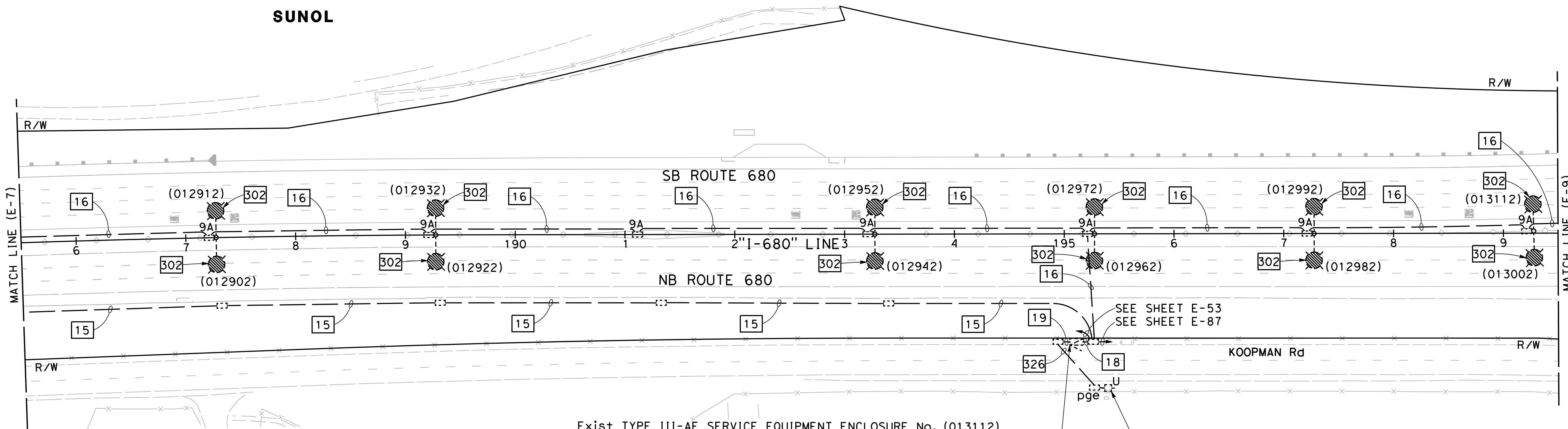
NOTE:
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RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



MY	REVISOR	DATE
9-29-21	9-29-21	9-29-21

MENG YANG	DESIGNED BY
DAN K. YAU	CHECKED BY

TIMOTHY J. LEE	FUNCTIONAL SUPERVISOR
----------------	-----------------------



Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (013112)
TYPE V PEU
Exist CTID No. 0433680R013112
Exist LOAD:
4-165 W LED Lum
24-235 W LED Lum
1000 W RM
100 W TDC
300 W CCTV
500 W FO CABINET (SUBPANEL "A")
1000 W TMS (SUBPANEL "A")
5000 W CMS (SUBPANEL "B")
300 W CCTV (SUBPANEL "B")

SEE SHEET E-53
SEE SHEET E-87
Exist SYSTEM No. 33-680-013112 (PG&E)
TYPE H SERVICE (120/240 V)

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

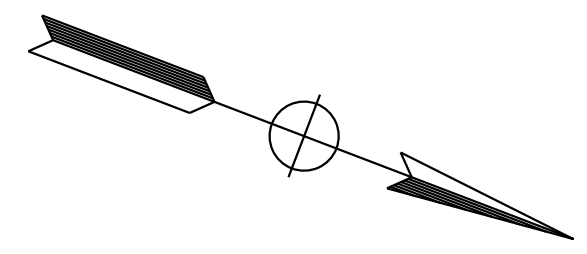
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LAST REVISION DATE PLOTTED => 2/11/2022 09-29-21 TIME PLOTTED => 10:11:53 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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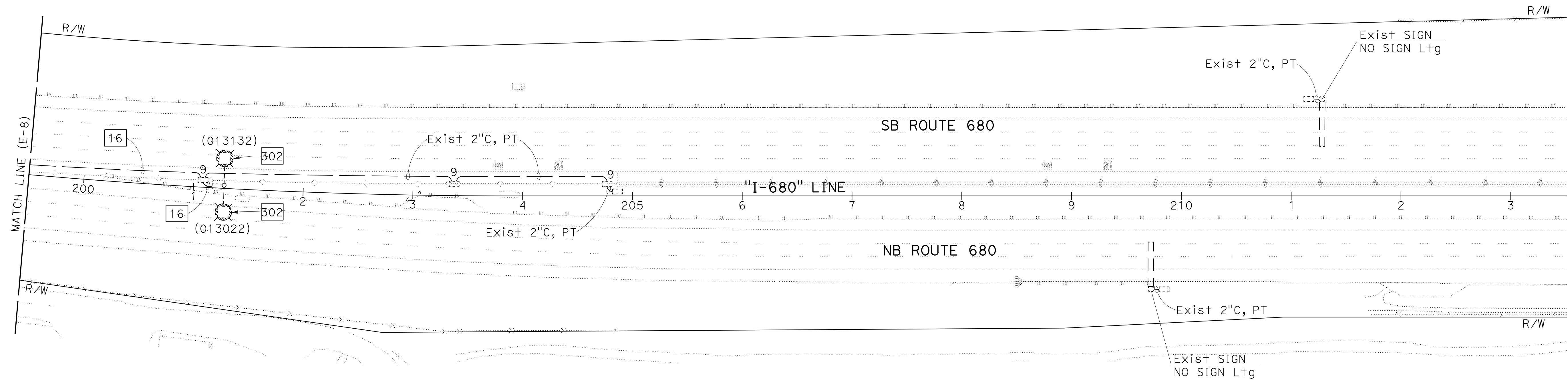
<i>K. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE
October 8, 2021	
PLANS APPROVAL DATE	

Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
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SUNOL



MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

E-9

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT	FUNCTIONAL SUPERVISOR	CALCULATED- DESIGNED BY	REVISOR	DATE
	TIMOTHY J. LEE			MENG YANG	9-29-21
				DAN K. YAU	

LAST REVISION DATE PLOTTED => 8-MAR-2022
 09-29-21 TIME PLOTTED => 16:38

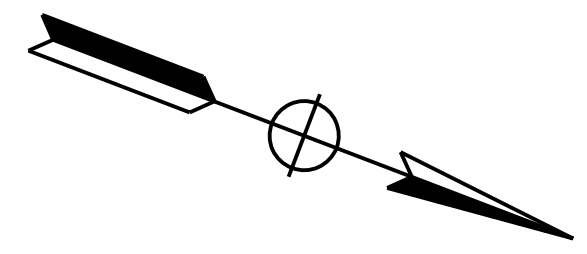
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1133	1710

<i>K. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE
October 8, 2021	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
KIN Y. CHAN
 No. 55391
 Exp. 12/31/22
 CIVIL
 STATE OF CALIFORNIA

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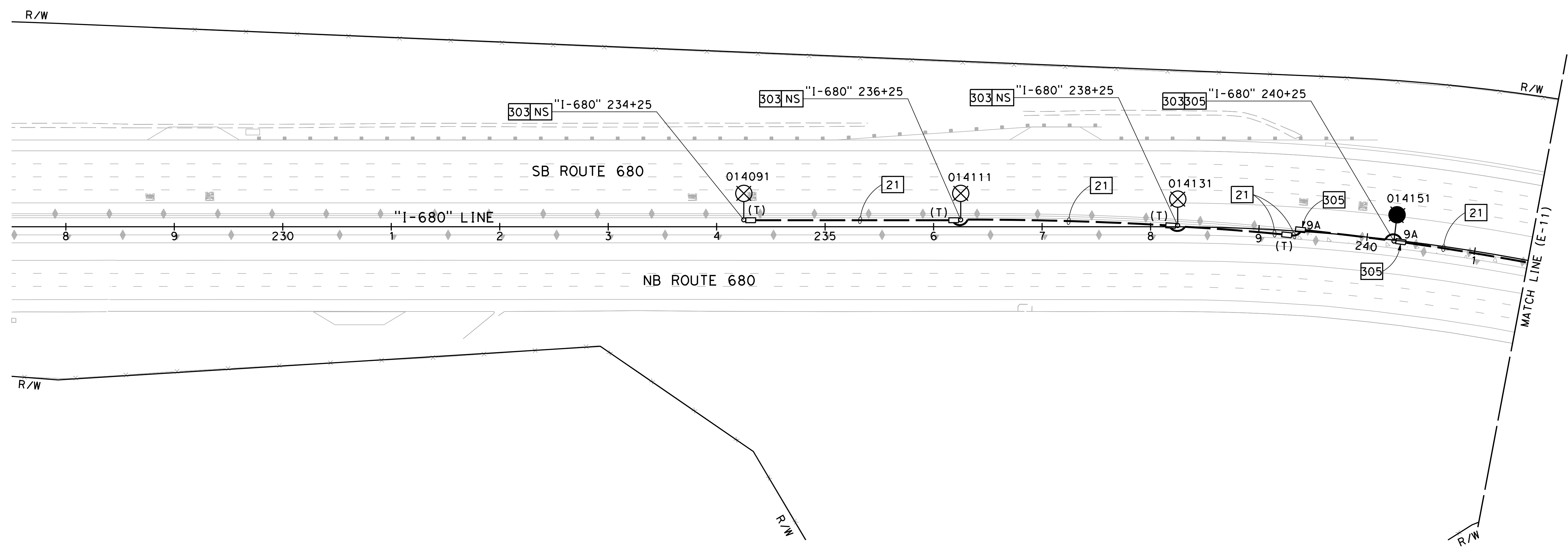
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NOTE:
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RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

MY	REVISOR	DATE
9-29-21	9-29-21	
MENG YANG	DESIGNER	
DAN K. YAU	CHECKER	
TIMOTHY J. LEE	CONSULTANT SUPERVISOR	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	

SUNOL



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS

SCALE: 1" = 50'

E-10

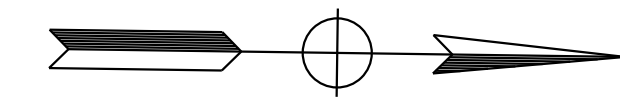
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1134	1710

<i>Kin Y. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE
October 8, 2021	
PLANS APPROVAL DATE	

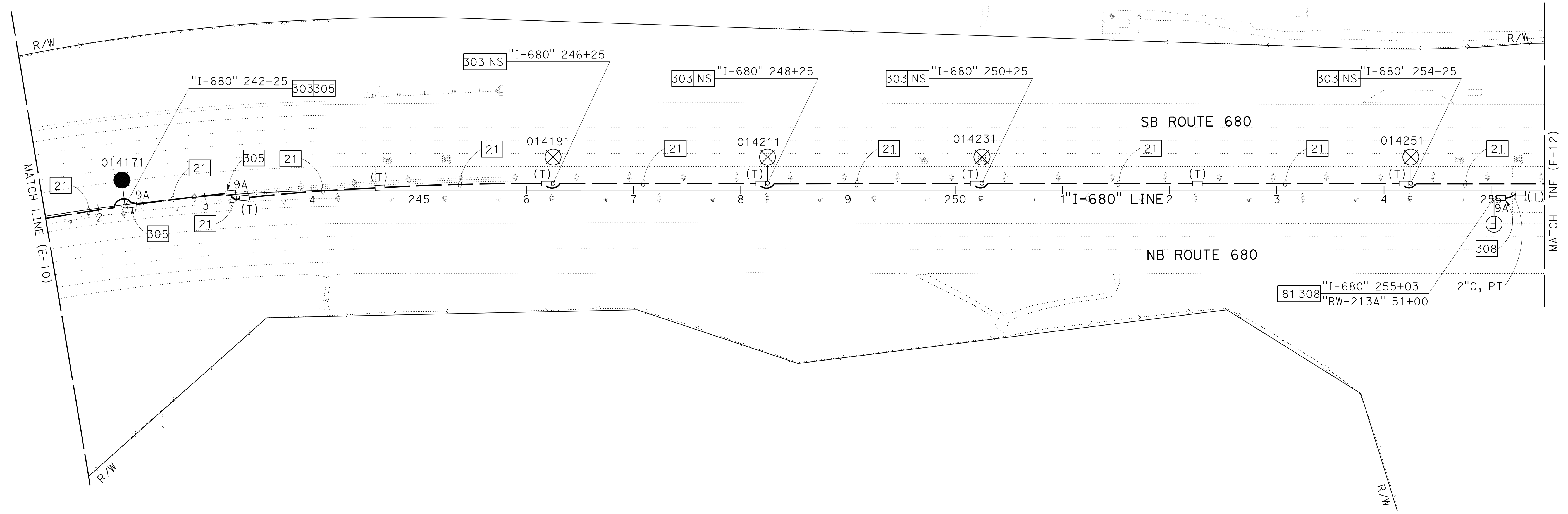
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MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CALCULATED-DESIGNED BY	CHECKED BY
TIMOTHY J. LEE	
CONSULTANT	FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	

SUNOL



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

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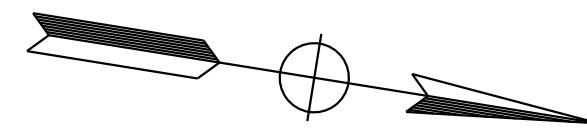
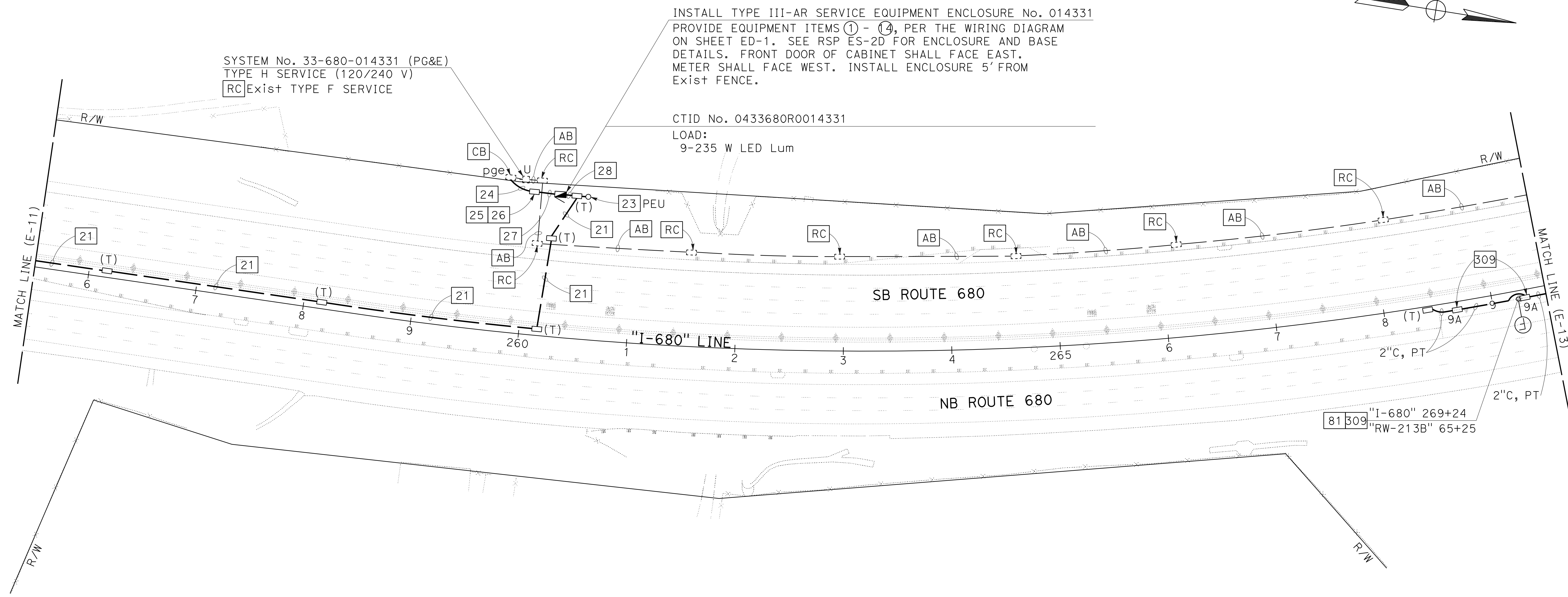
MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

E-11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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			9-29-21	REGISTERED CIVIL ENGINEER DATE	
			October 8, 2021	PLANS APPROVAL DATE	
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		

NOTE:
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RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	DATE
Timothy J. Lee	Meng Yang	Timothy J. Lee	Dan K. Yau	MY	9-29-21



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

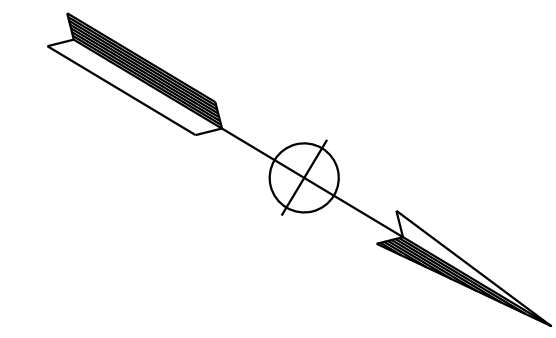
APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'
E-12

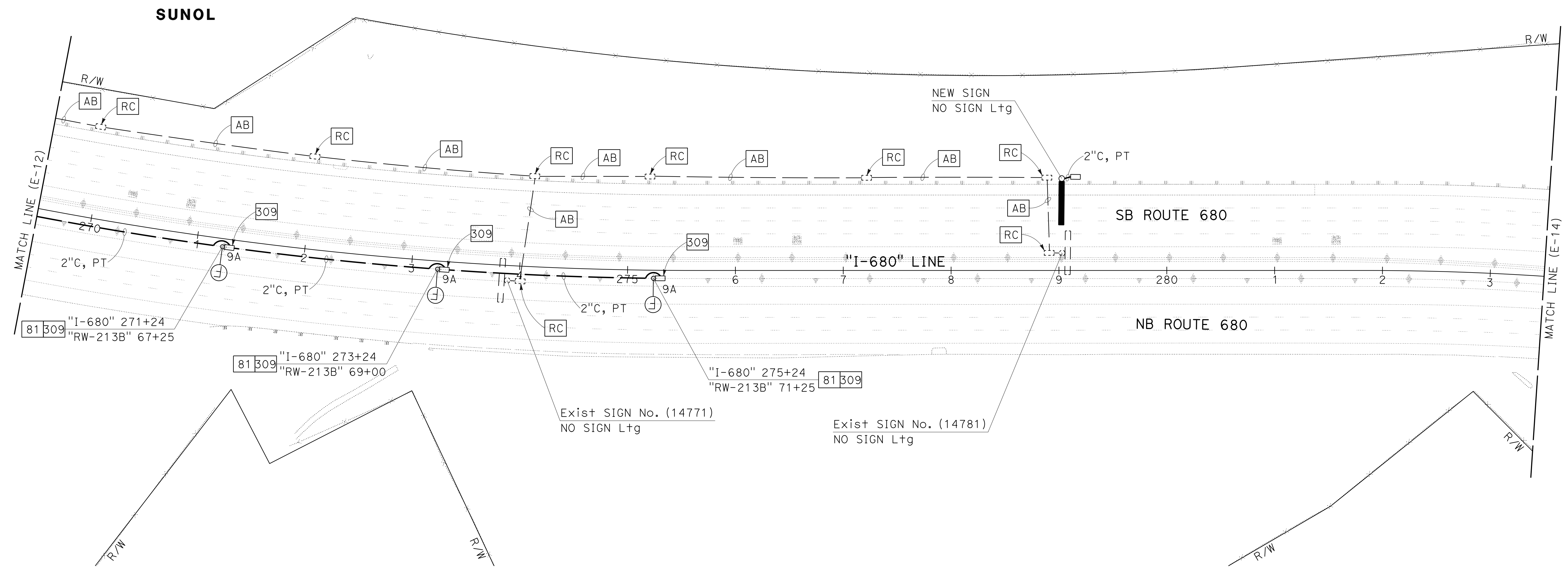
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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			REGISTERED CIVIL ENGINEER	9-29-21	DATE
			October 8, 2021	PLANS APPROVAL DATE	
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		

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MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CALCULATED/DESIGNED BY	CHECKED BY
TIMOTHY J. LEE	
CONSULTANT FUNCTIONAL SUPERVISOR	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

E-13

LAST REVISION DATE PLOTTED => 8-MAR-2022 TIME PLOTTED => 16:38

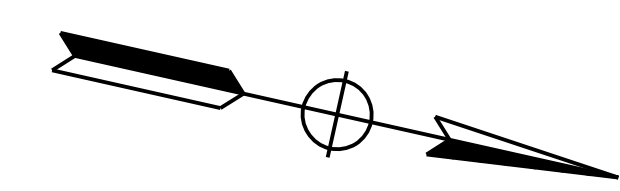
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1137	1710

<i>Kin Y. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE

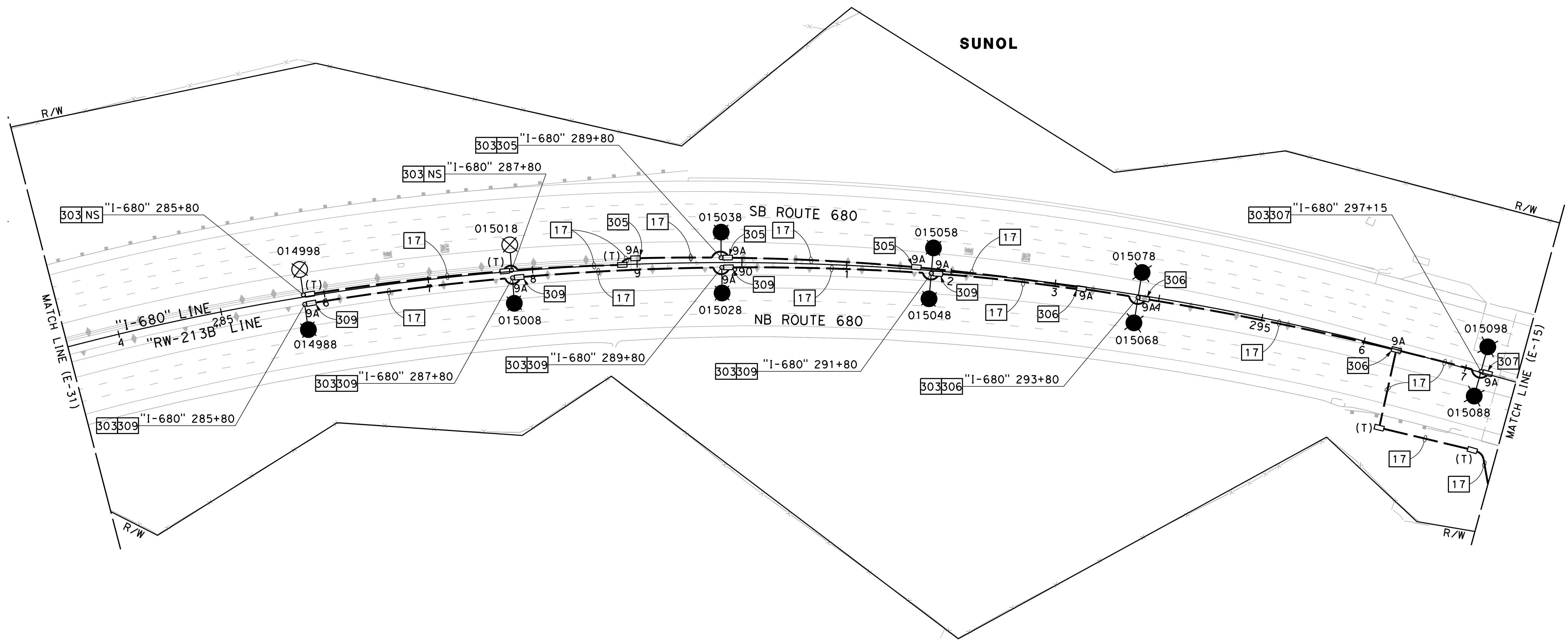
October 8, 2021
PLANS APPROVAL DATE

Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
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NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



REVISOR	DATE
MY	9-29-21
DESIGNED BY	CHECKED BY
MENG YANG	DAN K. YAU
FUNCTIONAL SUPERVISOR	
TIMOTHY J. LEE	



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

E-14

LAST REVISION DATE PLOTTED => 2/11/2022 09-29-21 TIME PLOTTED => 10:12:03 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1138	1710

REGISTERED CIVIL ENGINEER
 KIN Y. CHAN
 No. 55391
 Exp. 12/31/22
 CIVIL
 STATE OF CALIFORNIA

9-29-21
 DATE

October 8, 2021
 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.

Y&C TRANSPORTATION CONSULTANTS, INC.
 200 Brown Rd, Suite 108
 Fremont, CA 94539

ALAMEDA CTC
 1111 Broadway
 Suite 800
 Oakland, CA 94607

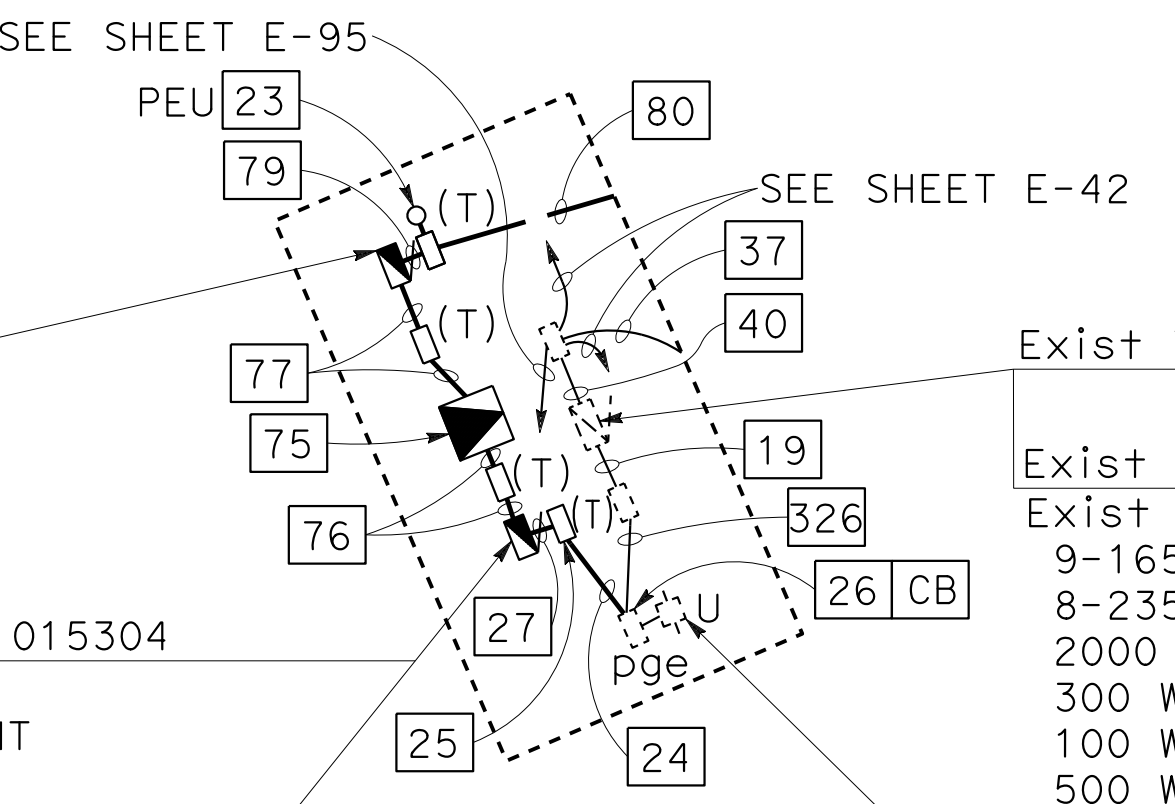
NOTE:

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

INSTALL TYPE III-AF SERVICE EQUIPMENT ENCLOSURE (SUBPANEL)
 PROVIDE EQUIPMENT ITEMS PER THE DETAIL A WIRING DIAGRAM ON SHEET ED-2. SEE SHEET ED-9 FOR EQUIPMENT LAYOUT. SEE RSP ES-2D FOR ENCLOSURE AND BASE DETAILS. FRONT DOOR OF CABINET SHALL FACE NORTH.

INSTALL TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. 015304
 PROVIDE EQUIPMENT ITEMS PER THE DETAIL D WIRING DIAGRAM ON SHEET ED-2. SEE SHEET ED-9 FOR EQUIPMENT LAYOUT. SEE RSP ES-2D FOR ENCLOSURE AND BASE DETAILS. FRONT DOOR OF CABINET SHALL FACE NORTH.

CTID No. 0433680R0015304
 LOAD:
 20-235 W LED Lum

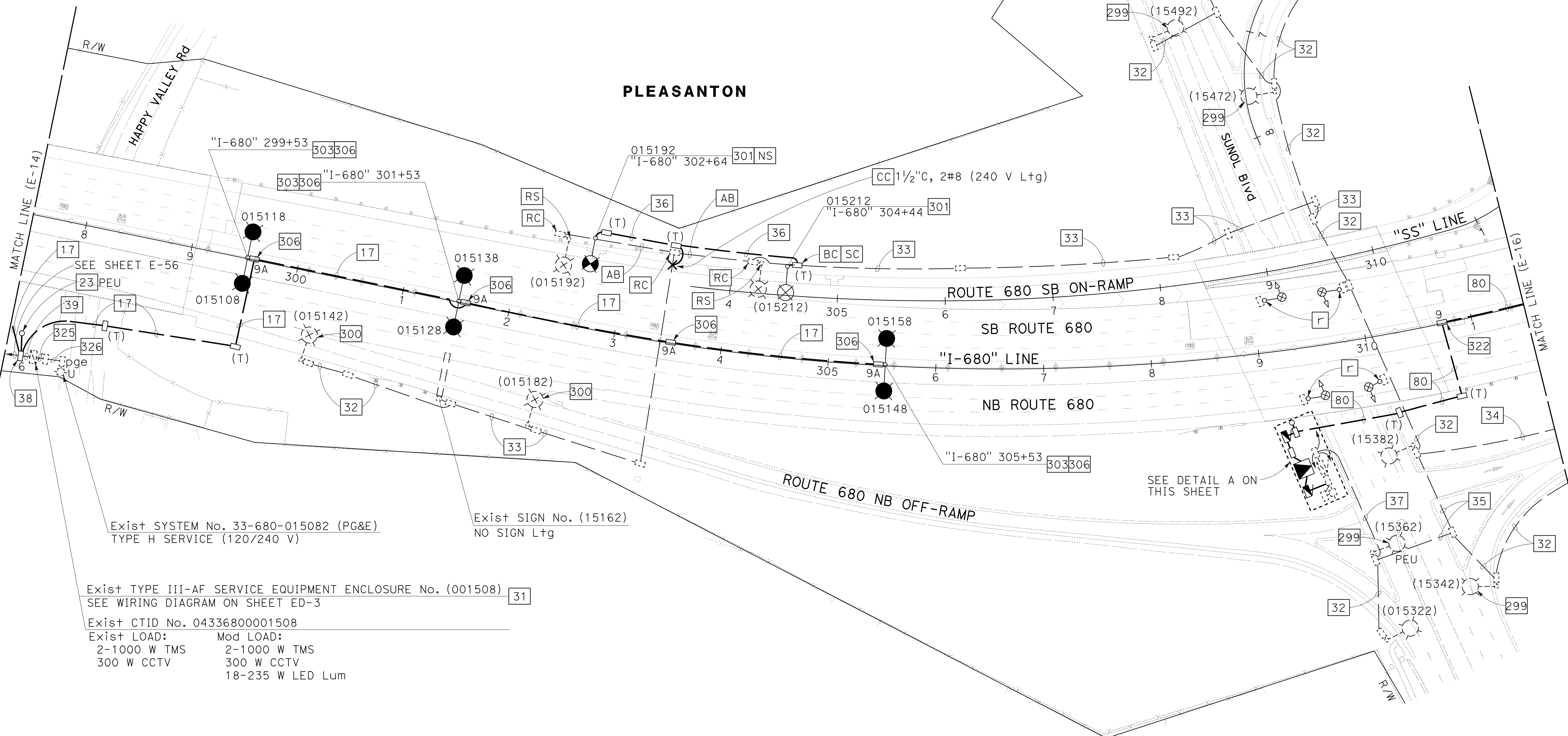


DETAIL A
 SCALE: 1" = 20'

Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (015302)

Exist CTID No. 0433680R0015302
 Exist LOAD:
 9-165 W LED Lum
 8-235 W LED Lum
 2000 W RM
 300 W CCTV
 100 W TDC
 500 W FO LINK CABINET

Exist SYSTEM No. 33-680-015302 (PG&E)
 TYPE H SERVICE (120/240 V)



Exist SYSTEM No. 33-680-015082 (PG&E)
 TYPE H SERVICE (120/240 V)

Exist SIGN No. (15162)
 NO SIGN Ltg

Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (001508) SEE WIRING DIAGRAM ON SHEET ED-3
 Exist CTID No. 04336800001508
 Exist LOAD: 2-1000 W TMS, 300 W CCTV
 Mod LOAD: 2-1000 W TMS, 300 W CCTV, 18-235 W LED Lum

MODIFYING LIGHTING SYSTEMS

SCALE: 1" = 50'

E-15

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

0:\00300\DRAWING\FINAL_P5&E\0420000235u0015.dgn
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT - FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 MING YANG
 DAN K. YAU
 MY
 9-29-21
 REVISED BY
 DATE REVISED
 TIMOTHY J. LEE
 CONSULTANT - FUNCTIONAL SUPERVISOR
 STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 Et Caltrans

USERNAME => p302438
 DGN FILE => 0420000235u0015.dgn



UNIT 0733

PROJECT NUMBER & PHASE

04200002351

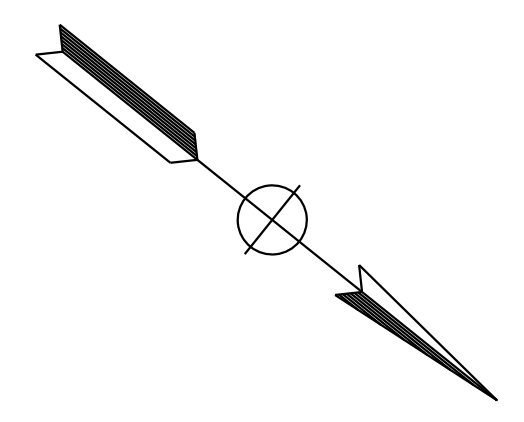
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 09-29-21 TIME PLOTTED => 16:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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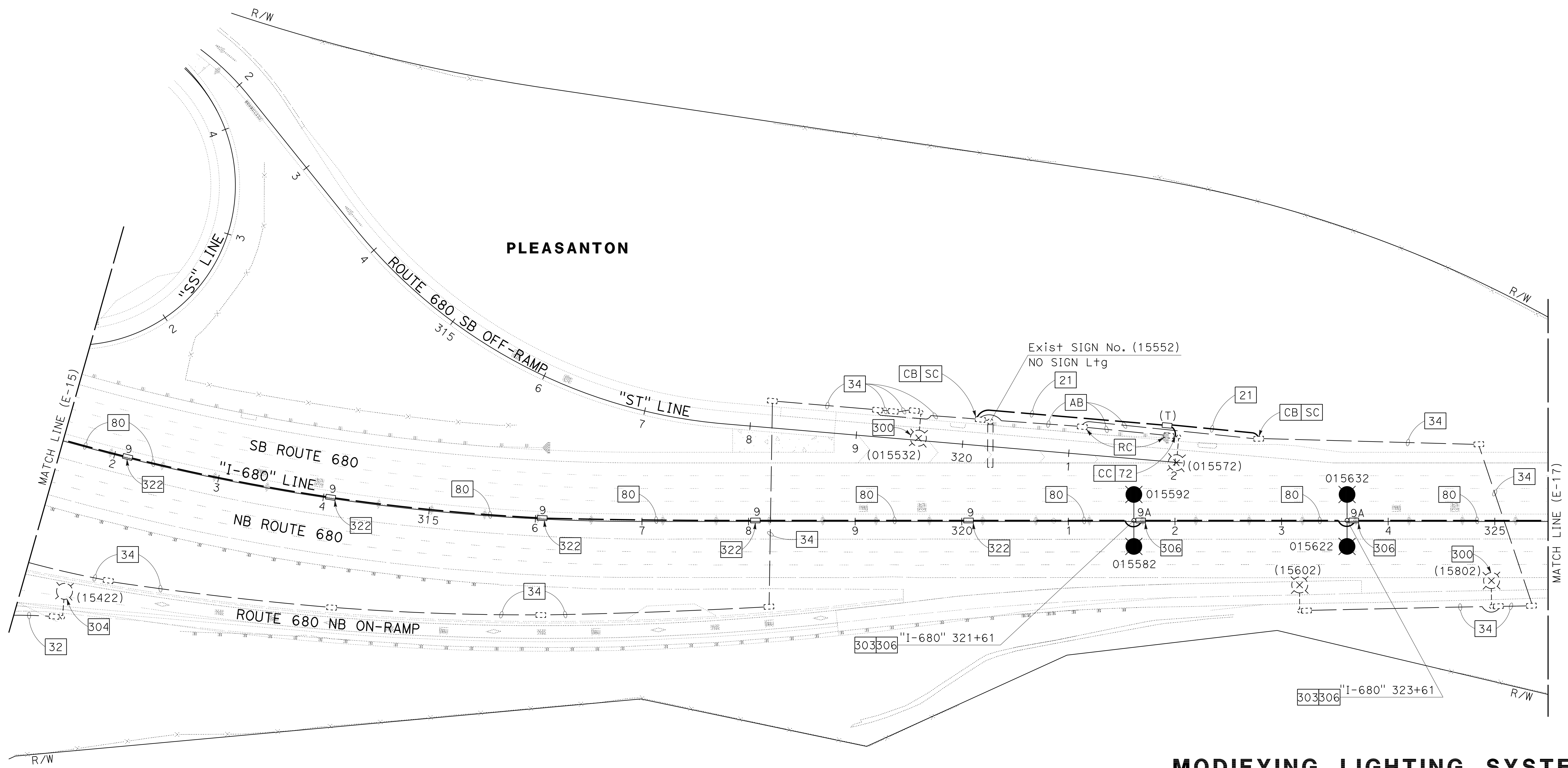
<i>K. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE
October 8, 2021	
PLANS APPROVAL DATE	

Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
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NOTE:
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RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT - FUNCTIONAL SUPERVISOR	REVISOR	DATE
Timothy J. Lee	Timothy J. Lee	MY	9-29-21
Caltrans	Checked by	Revised by	Date
	Dan K. Yau	Meng Yang	



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

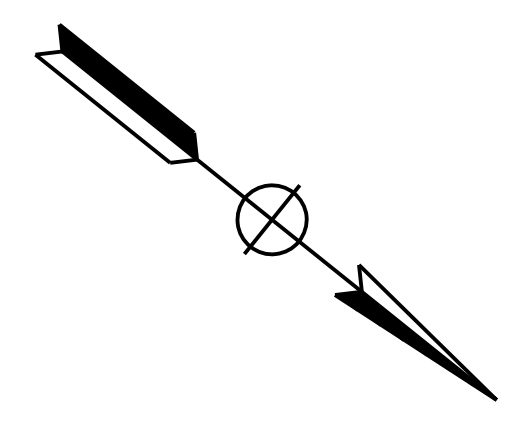
E-16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1140	1710

<i>Kin Y. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE
October 8, 2021	
PLANS APPROVAL DATE	

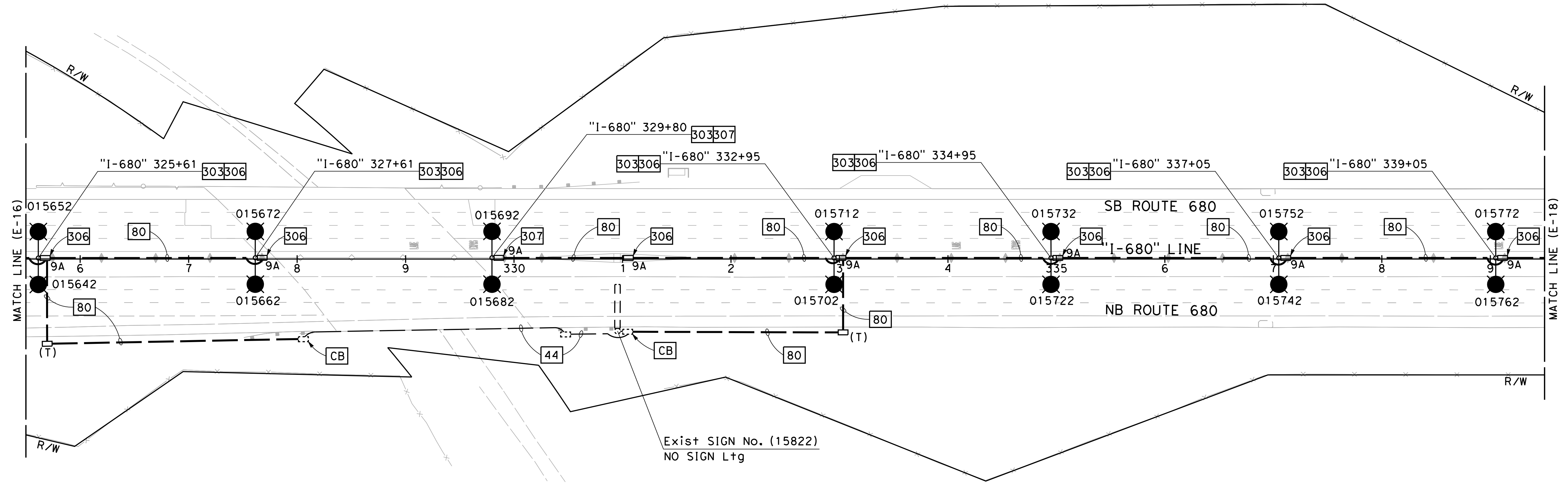
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
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NOTE:
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RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CALCULATED-DESIGNED BY	CHECKED BY
TIMOTHY J. LEE	
CONSULTANT FUNCTIONAL SUPERVISOR	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	

PLEASANTON



Exist SIGN No. (15822)
NO SIGN Ltg

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

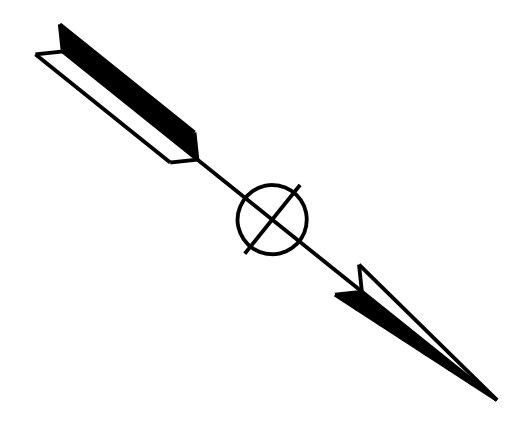
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MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

E-17

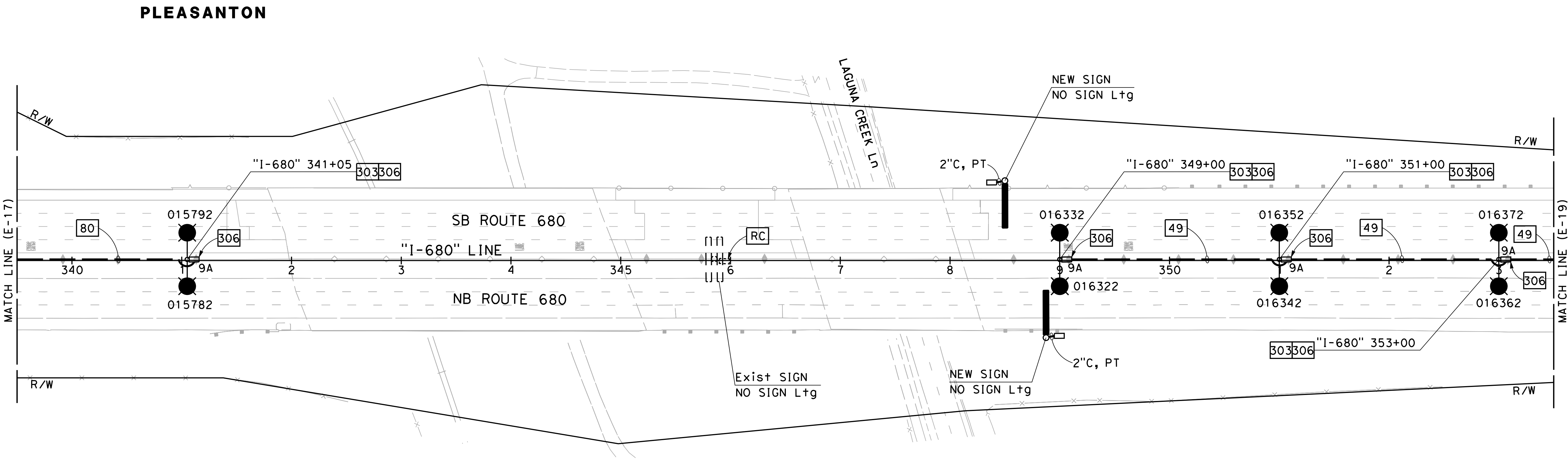
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1141	1710
			REGISTERED CIVIL ENGINEER	DATE	
			KIN Y. CHAN	9-29-21	
			No. 55391		
			Exp. 12/31/22		
			CIVIL		
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MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CALCULATED/DESIGNED BY	CHECKED BY
TIMOTHY J. LEE	
CONSULTANT	FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

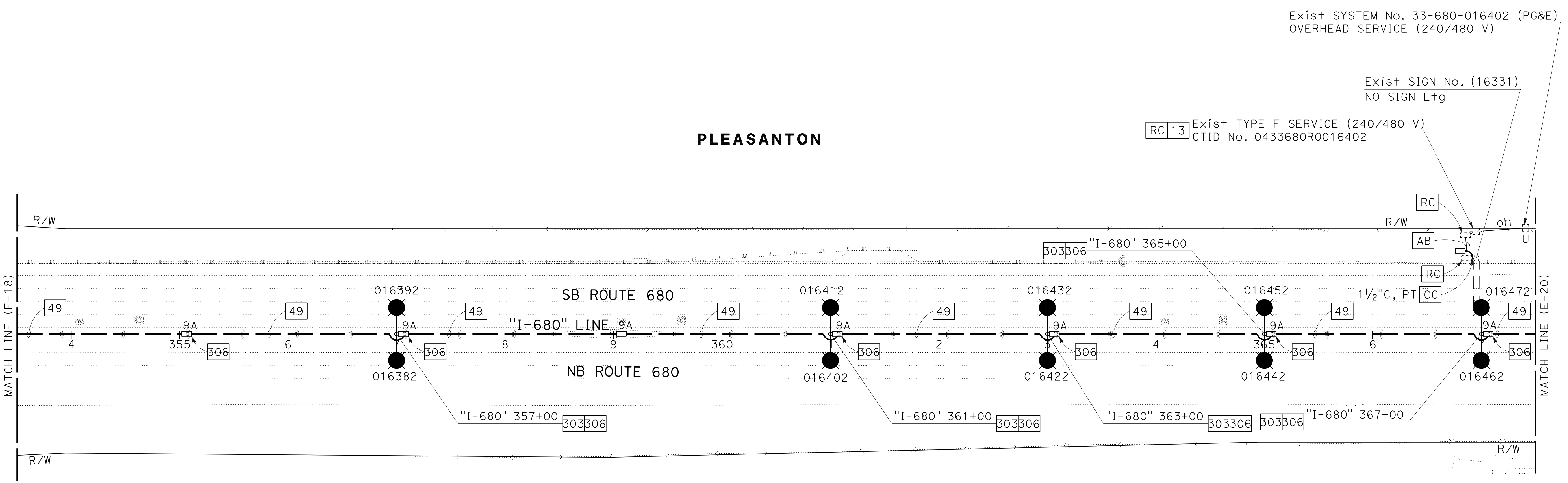
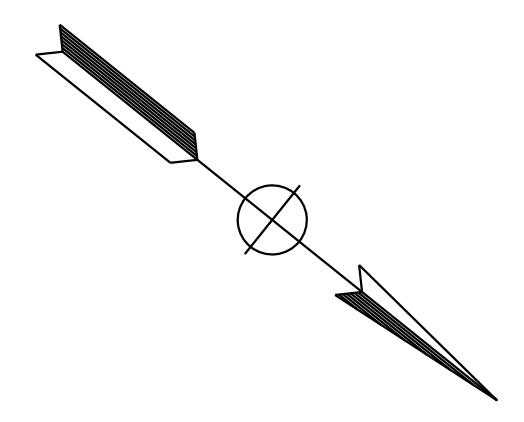
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MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

E-18

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1142	1710
			9-29-21		
REGISTERED CIVIL ENGINEER			DATE		
October 8, 2021			PLANS APPROVAL DATE		
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		

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



MY	REVISOR	DATE
9-29-21	DAN K. YAU	
MENG YANG	CHECKED BY	
DAN K. YAU	TIMOTHY J. LEE	
DESIGNED BY	FUNCTIONAL SUPERVISOR	
TIMOTHY J. LEE		
DEPARTMENT OF TRANSPORTATION		

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

E-19

LAST REVISION DATE PLOTTED => 8-MAR-2022 TIME PLOTTED => 16:39

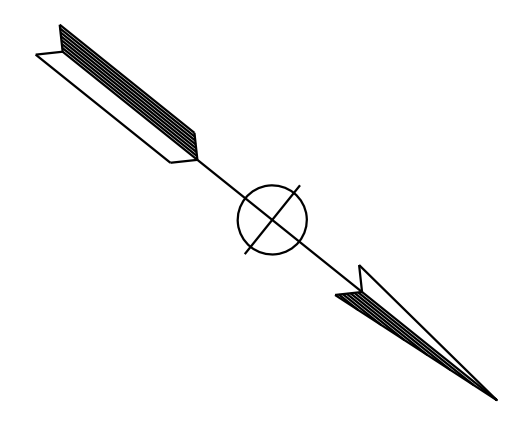
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1143	1710

<i>K. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE

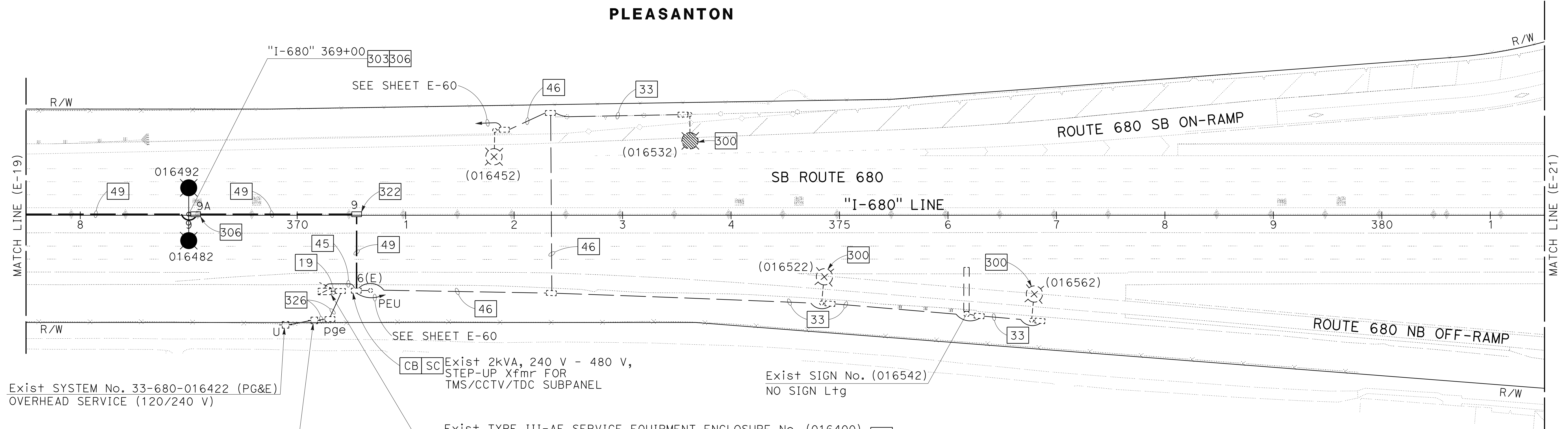
October 8, 2021
PLANS APPROVAL DATE

Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
---	--

NOTE:
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RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CALCULATED-DESIGNED BY	CHECKED BY
TIMOTHY J. LEE	
CONSULTANT	FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA	DEPARTMENT OF TRANSPORTATION



Exist SYSTEM No. 33-680-016422 (PG&E)
OVERHEAD SERVICE (120/240 V)

Exist TYPE H SERVICE

Exist 2kVA, 240 V - 480 V,
STEP-UP Xfmr FOR
TMS/CCTV/TDC SUBPANEL

Exist SIGN No. (016542)
NO SIGN L+g

Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (016400) 323
SEE WIRING DIAGRAM ON SHEET ED-4.
SEE CIRCUIT DIAGRAM ON SHEET ED-21.

Exist CTID No. 0433680R0016400

Exist LOAD:	Mod LOAD:
4-235 W LED Lum	22-235 W LED Lum
1000 W TMS	1000 W TMS
100 W TDC (SUBPANEL)	100 W TDC (SUBPANEL)
300 W TMS/CCTV (SUBPANEL)	300 W TMS/CCTV (SUBPANEL)

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

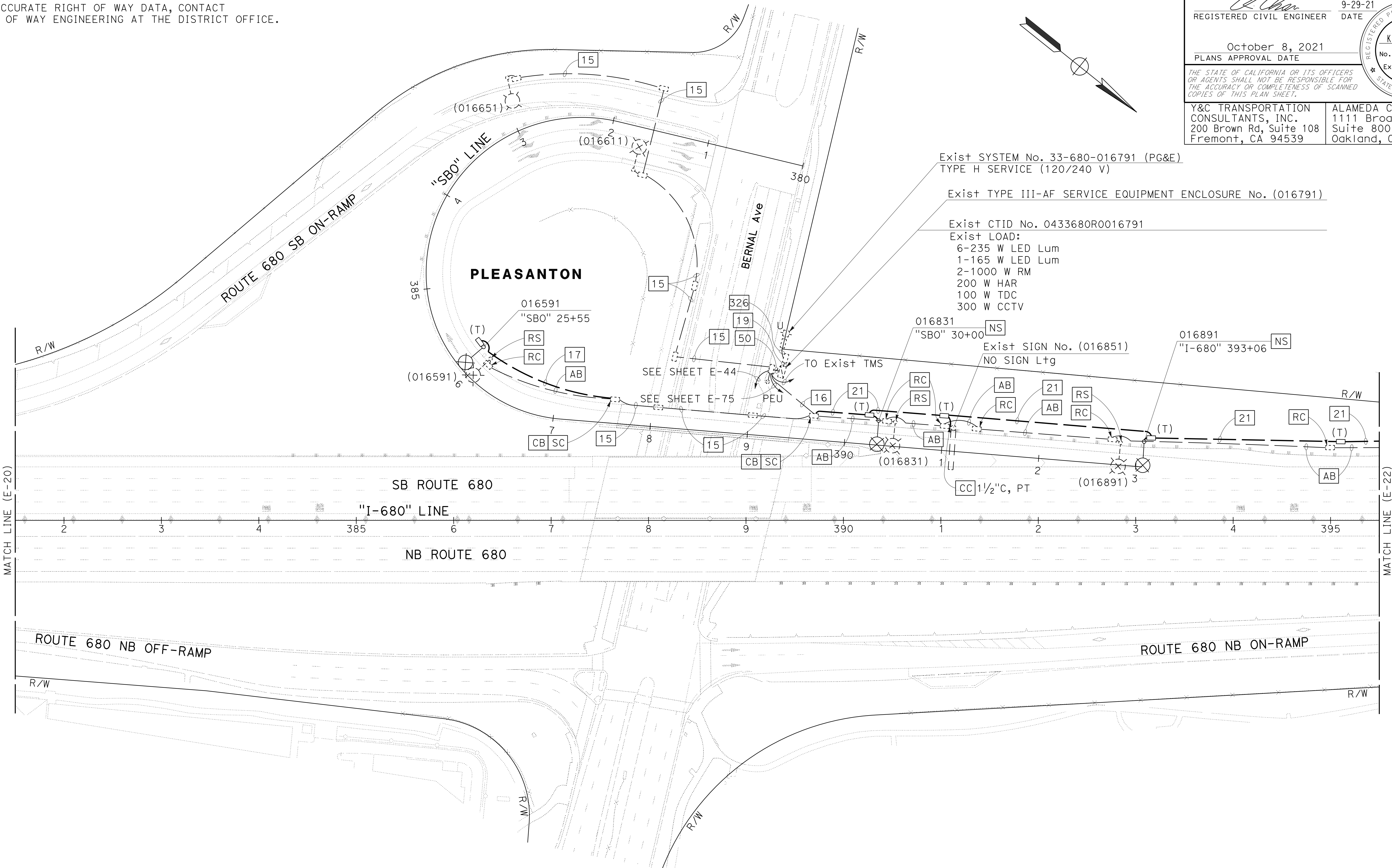
APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

E-20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1144	1710
			REGISTERED CIVIL ENGINEER	9-29-21	DATE
			October 8, 2021	PLANS APPROVAL DATE	
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NOTE:
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Exist SYSTEM No. 33-680-016791 (PG&E)
TYPE H SERVICE (120/240 V)

Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (016791)

Exist CTID No. 0433680R0016791

Exist LOAD:
6-235 W LED Lum
1-165 W LED Lum
2-1000 W RM
200 W HAR
100 W TDC
300 W CCTV

MY	REVISOR	DATE
9-29-21	DAN K. YAU	
DESIGNER	CHECKED BY	
MENG YANG	TIMOTHY J. LEE	
CONSULTANT	FUNCTIONAL SUPERVISOR	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

E-21

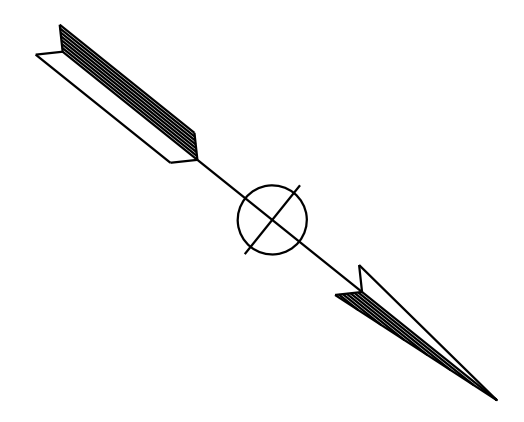
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1145	1710

<i>Kin Y. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE
October 8, 2021	
PLANS APPROVAL DATE	

Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
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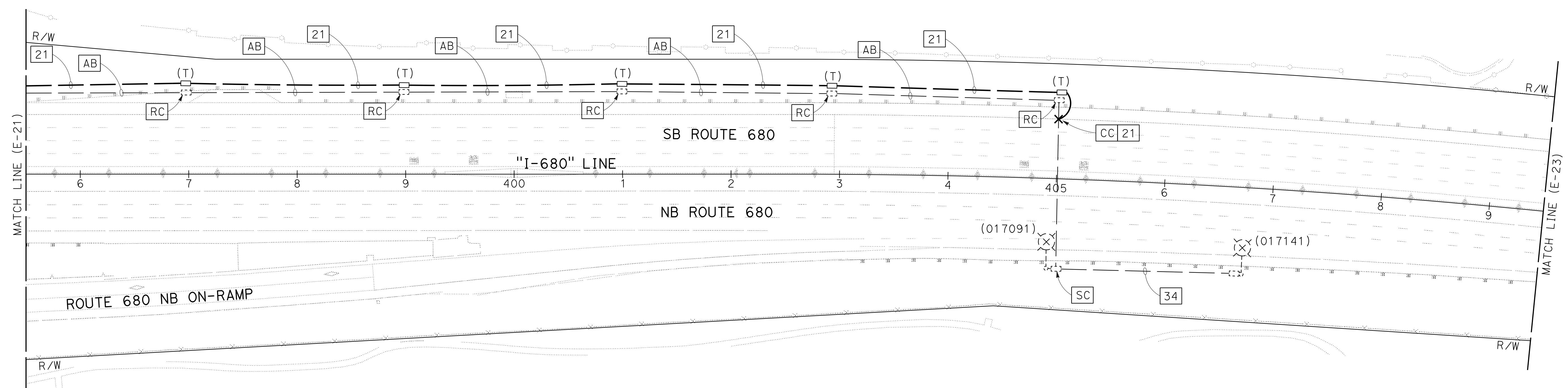
NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans®
 USERNAME => p302438
 DGN FILE => 0420000235\0422.dgn

MY 9-29-21
 REVISOR DAN K. YAU
 CHECKED BY TIMOTHY J. LEE
 SUPERVISOR

PLEASANTON



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

E-22

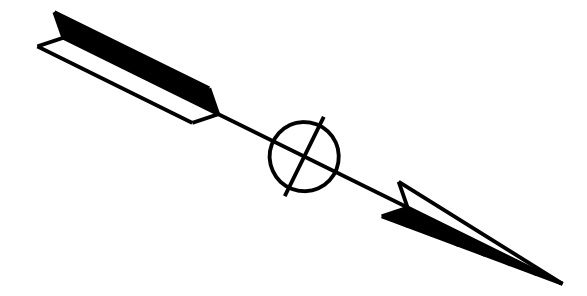
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 09-29-21 TIME PLOTTED => 16:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1146	1710

<i>Kin Y. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE
October 8, 2021	
PLANS APPROVAL DATE	

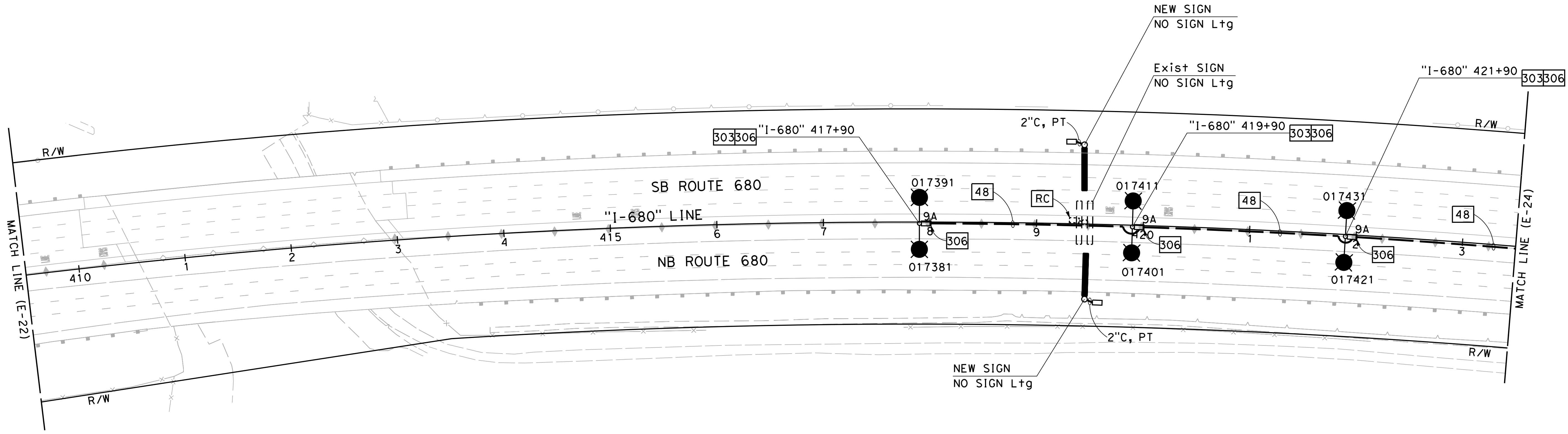
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
---	--

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



MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CALCULATED- DESIGNED BY	CHECKED BY
TIMOTHY J. LEE	

PLEASANTON



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

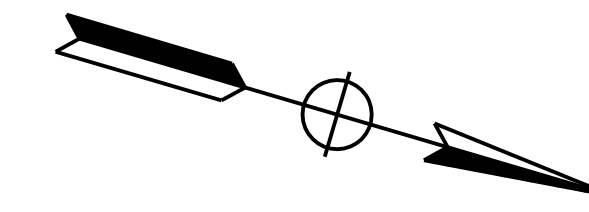
E-23

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LAST REVISION DATE PLOTTED => 2/11/2022 09-29-21 TIME PLOTTED => 11:18:14 AM

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



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1147	1710

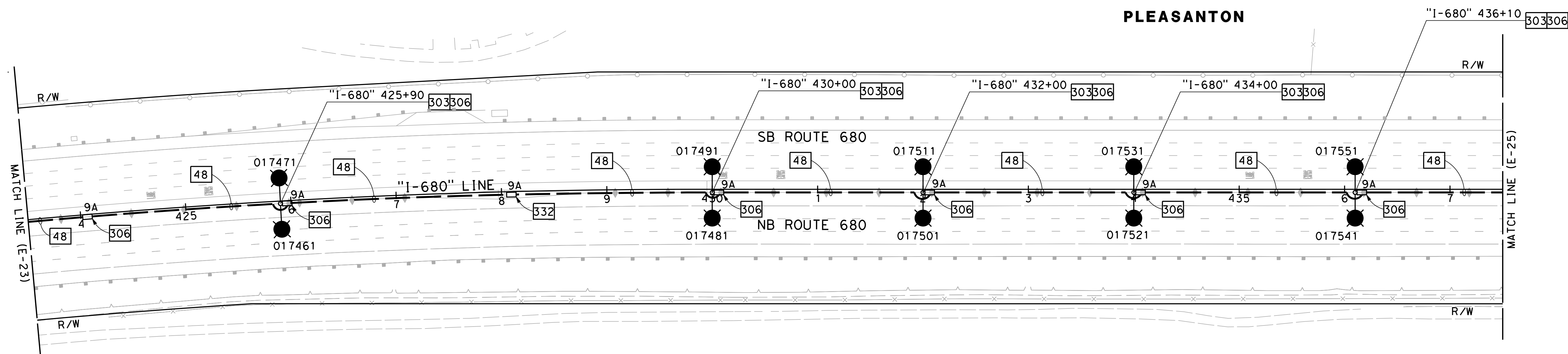
<i>K. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE
October 8, 2021	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
KIN Y. CHAN
 No. 55391
 Exp. 12/31/22
 CIVIL
 STATE OF CALIFORNIA

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT - FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 MING YANG
 DAN K. YAU
 MY
 9-29-21
 REVISED BY
 DATE REVISED
 TIMOTHY J. LEE



FOR NOTES, ABBREVIATIONS AND
 LEGEND, SEE SHEETS E-1 TO E-5

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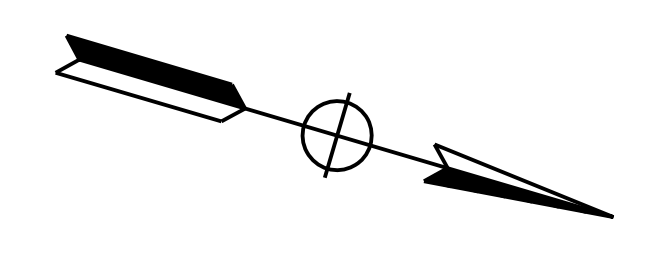
MODIFYING LIGHTING SYSTEMS
 SCALE: 1" = 50'

E-24

LAST REVISION: DATE PLOTTED => 2/11/2022
 09-29-21 TIME PLOTTED => 11:18:15 AM

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT FUNCTIONAL SUPERVISOR
 MING YANG
 DAN K. YAU
 CHECKED BY
 TIMOTHY J. LEE
 REVISIONS
 MY
 9-29-21
 REVISED BY
 DATE REVISED
 CALCULATED/DESIGNED BY
 CHECKED BY

NOTE:
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1148	1710

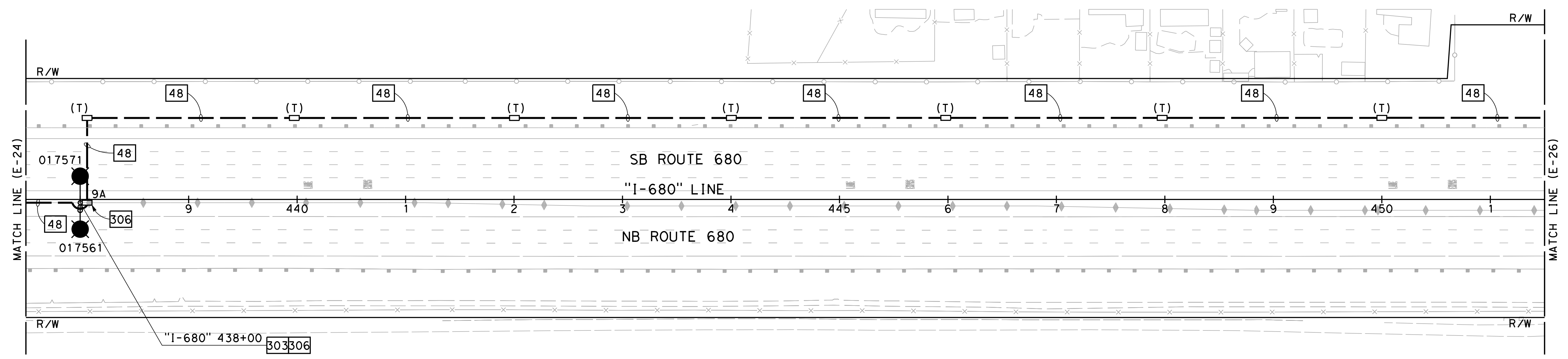
REGISTERED CIVIL ENGINEER *K. Chan* DATE 9-29-21
 October 8, 2021
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KIN Y. CHAN
 No. 55391
 Exp. 12/31/22
 CIVIL
 STATE OF CALIFORNIA

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FOR NOTES, ABBREVIATIONS AND
 LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
 SCALE: 1" = 50'

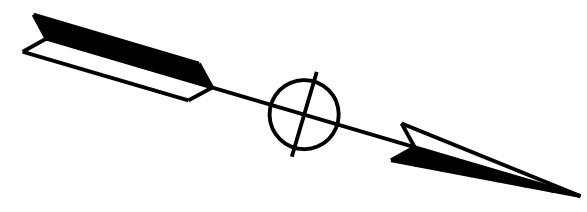
E-25

LAST REVISION DATE PLOTTED => 2/11/2022
 09-29-21 TIME PLOTTED => 11:18:17 AM

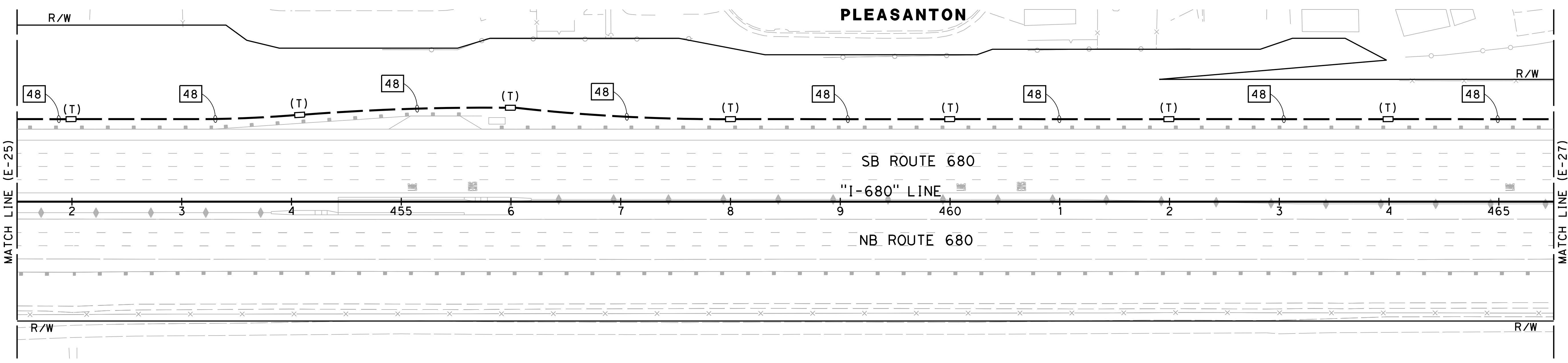
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1149	1710

<i>Kin Y. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE
October 8, 2021	
PLANS APPROVAL DATE	

Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
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NOTE:
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RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT - FUNCTIONAL SUPERVISOR
 CALCULATED-DESIGNED BY
 CHECKED BY
 MING YANG
 DAN K. YAU
 MY
 9-29-21
 REVISOR
 DATE
 TIMOTHY J. LEE
 SUPERVISOR
 Y&C TRANSPORTATION CONSULTANTS, INC.

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

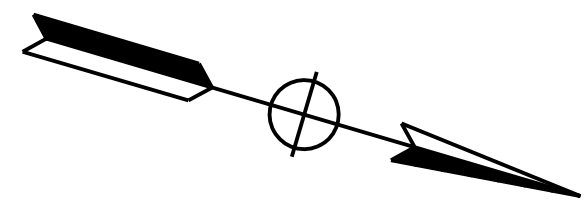
MODIFYING LIGHTING SYSTEMS

SCALE: 1" = 50'

E-26

LAST REVISION
 DATE PLOTTED => 2/11/2022
 09-29-21
 TIME PLOTTED => 11:18:19 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1150	1710
			9-29-21	REGISTERED CIVIL ENGINEER DATE	
			October 8, 2021	PLANS APPROVAL DATE	
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		

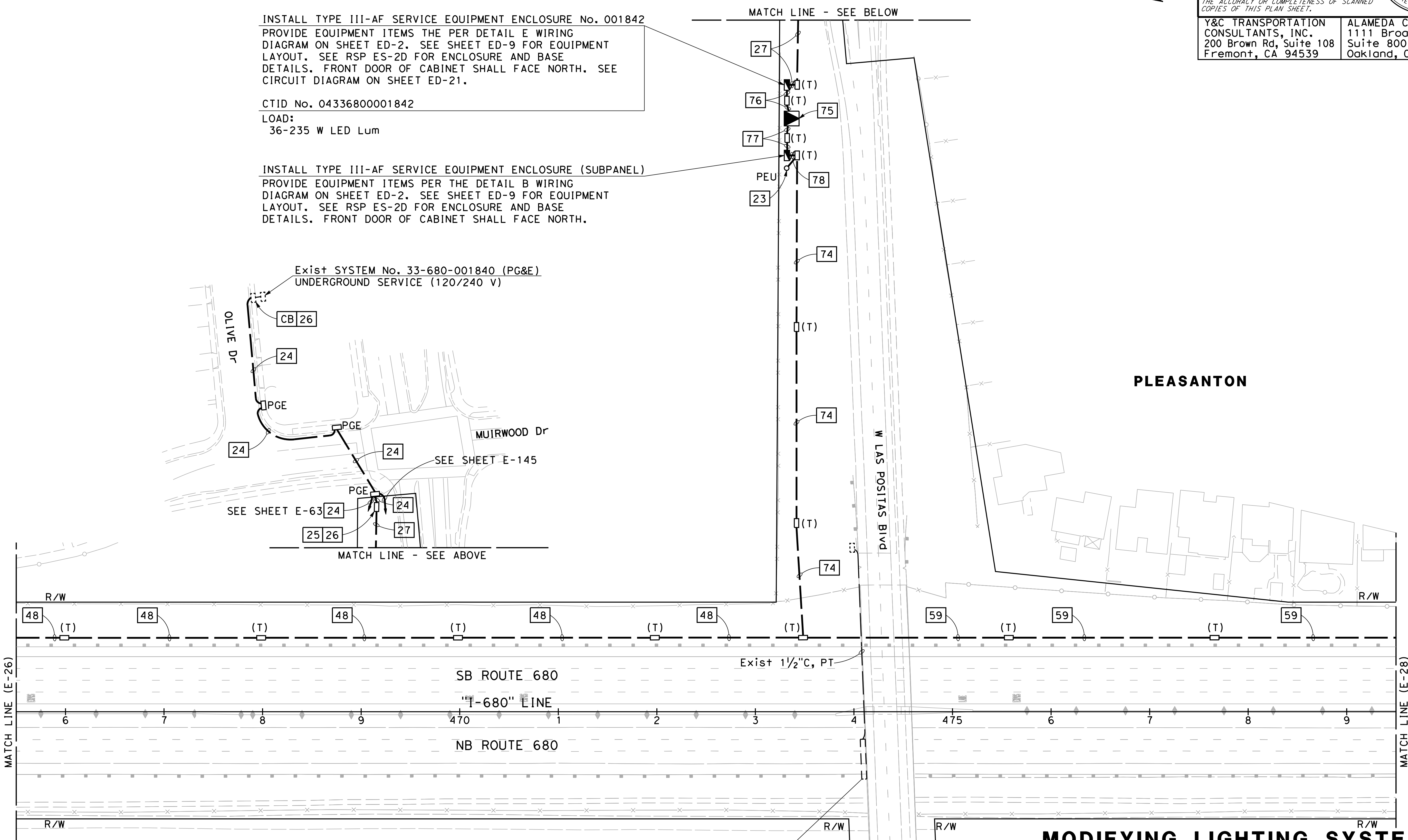


NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

INSTALL TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. 001842
PROVIDE EQUIPMENT ITEMS THE PER DETAIL E WIRING DIAGRAM ON SHEET ED-2. SEE SHEET ED-9 FOR EQUIPMENT LAYOUT. SEE RSP ES-2D FOR ENCLOSURE AND BASE DETAILS. FRONT DOOR OF CABINET SHALL FACE NORTH. SEE CIRCUIT DIAGRAM ON SHEET ED-21.

CTID No. 0433680001842
LOAD:
36-235 W LED Lum

INSTALL TYPE III-AF SERVICE EQUIPMENT ENCLOSURE (SUBPANEL)
PROVIDE EQUIPMENT ITEMS PER THE DETAIL B WIRING DIAGRAM ON SHEET ED-2. SEE SHEET ED-9 FOR EQUIPMENT LAYOUT. SEE RSP ES-2D FOR ENCLOSURE AND BASE DETAILS. FRONT DOOR OF CABINET SHALL FACE NORTH.



PLEASANTON

MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

E-27

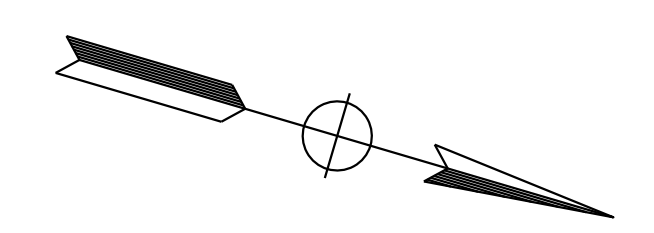
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

O:\Project\2020\116820_680_GAP\0420000235ud027.dgn
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT - FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 MING YANG
 DAN K. YAU
 MY
 9-29-21
 REVISOR
 DATE
 TIMOTHY J. LEE
 SUPERVISOR
 Y&C TRANSPORTATION
 STATE OF CALIFORNIA
 09-29-21 11:18:20 AM

O:\0030\DRAWING\FINAL_P58E\0420000235u028.dgn
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT - FUNCTIONAL SUPERVISOR
 TIMOTHY J. LEE
 CALCULATED/DESIGNED BY
 CHECKED BY
 MING YANG
 DAN K. YAU
 REVISED BY
 DATE REVISED
 MY
 9-29-21

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



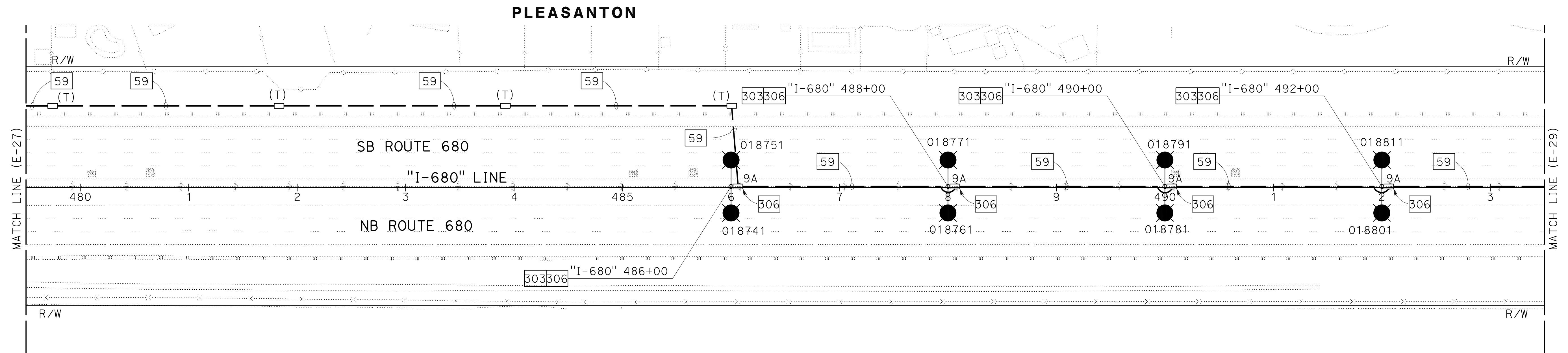
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1151	1710

REGISTERED CIVIL ENGINEER DATE 9-29-21
 October 8, 2021
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KIN Y. CHAN
 No. 55391
 Exp. 12/31/22
 CIVIL
 STATE OF CALIFORNIA

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FOR NOTES, ABBREVIATIONS AND
 LEGEND, SEE SHEETS E-1 TO E-5

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MODIFYING LIGHTING SYSTEMS

SCALE: 1" = 50'

E-28

LAST REVISION DATE PLOTTED => 8-MAR-2022
 09-29-21 TIME PLOTTED => 16:40

O:\Project\2020\116820_680_GAP\0420000235\042029.dgn
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 MENG YANG
 DAN K. YAU
 MY
 9-29-21
 REVISED BY
 DATE REVISED
 TIMOTHY J. LEE
 Y&C TRANSPORTATION

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

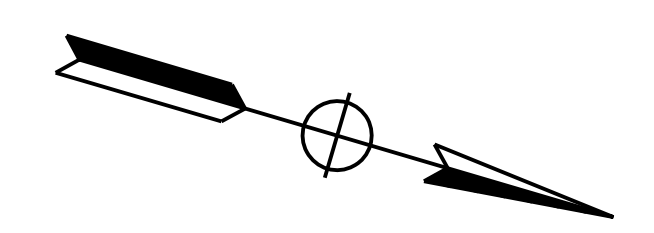
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1152	1710

REGISTERED CIVIL ENGINEER DATE 9-29-21
 October 8, 2021
 PLANS APPROVAL DATE

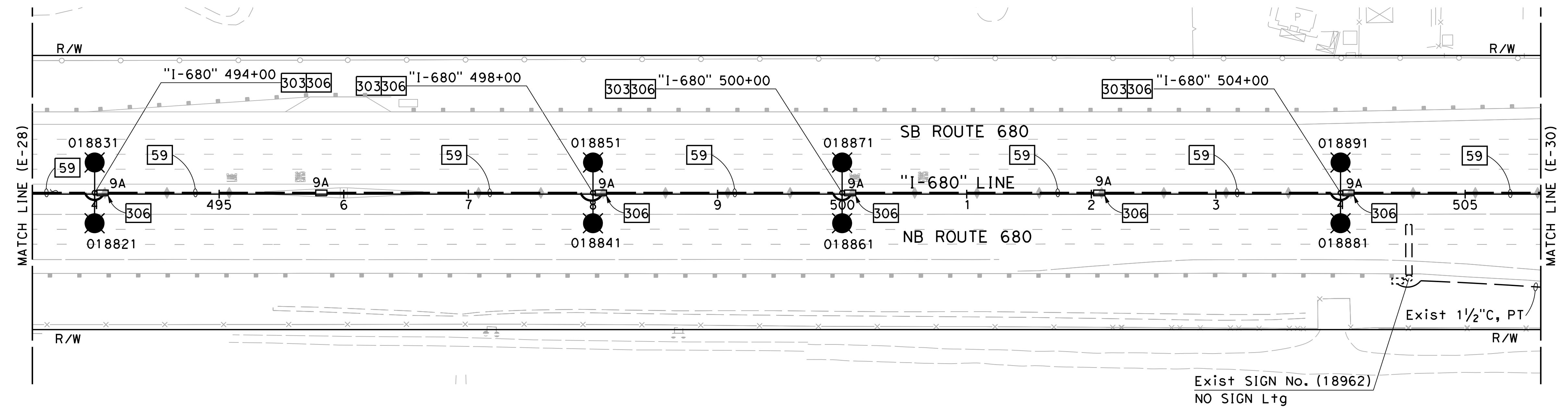
REGISTERED PROFESSIONAL ENGINEER
 KIN Y. CHAN
 No. 55391
 Exp. 12/31/22
 CIVIL
 STATE OF CALIFORNIA

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PLEASANTON



FOR NOTES, ABBREVIATIONS AND
 LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
 SCALE: 1" = 50'

E-29

LAST REVISION DATE PLOTTED => 2/11/2022
 09-29-21 TIME PLOTTED => 11:18:24 AM

NOTE:

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

8 Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (019331)
SEE WIRING DIAGRAM ON SHEET ED-5

Exist CTID No. 0433680R019331

Exist LOAD:	Mod LOAD:
6-235 W LED Lum	6-235 W LED Lum
3-165 W LED Lum	3-165 W LED Lum
1-70 W SOFFIT	1-70 W SOFFIT
2-1000 W RM	2-1000 W RM
100 W TDC	100 W TDC
150 W Irr	150 W Irr
300 W RRFB	300 W RRFB
	500 W LED VMS

Exist 2"C, 2#6 (240 V Ltg),
2#10 (120 V RRFB)

Exist SYSTEM No. 33-680-019331
PG&E SERVICE (120/240 V)

SEE SHEET E-47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1154	1710

REGISTERED CIVIL ENGINEER DATE 9-29-21

October 8, 2021
PLANS APPROVAL DATE

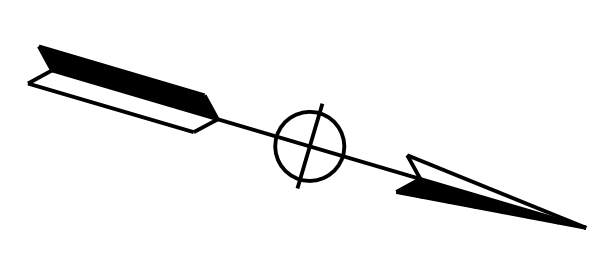
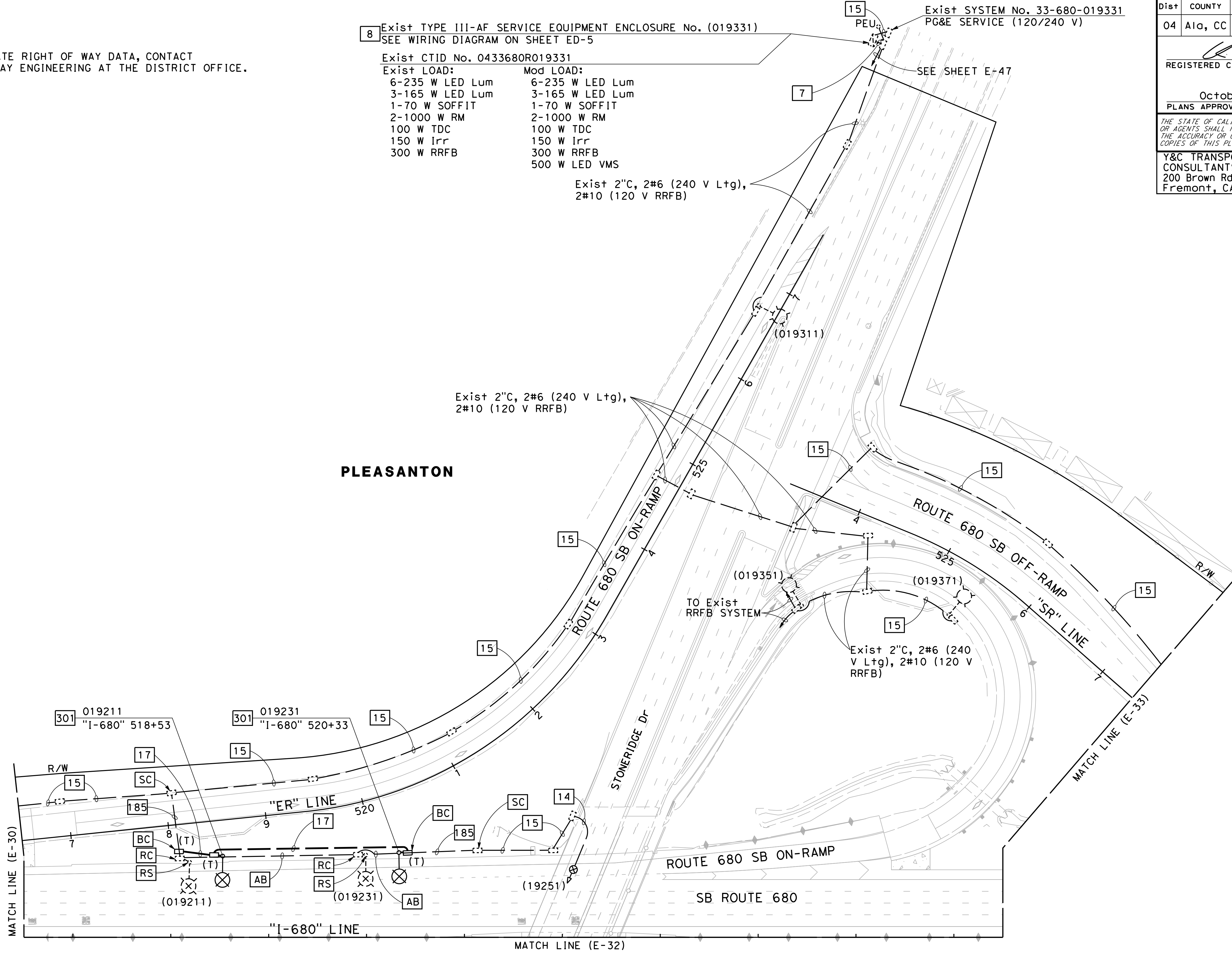
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Fremont, CA 94539

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607

KIN Y. CHAN
No. 55391
Exp. 12/31/22
CIVIL

MY	9-29-21	REVISOR	DATE
MENG YANG	DAN K. YAU	CALCULATED- DESIGNED BY	CHECKED BY
TIMOTHY J. LEE		CONSULTANT FUNCTIONAL SUPERVISOR	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION			



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS

SCALE: 1" = 50'

E-31

LAST REVISION DATE PLOTTED => 2/11/2022 09-29-21 TIME PLOTTED => 11:18:27 AM

NOTE:

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

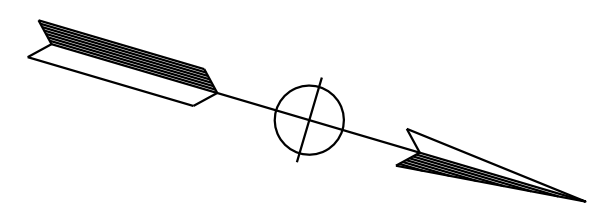
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1155	1710

REGISTERED CIVIL ENGINEER DATE 9-29-21

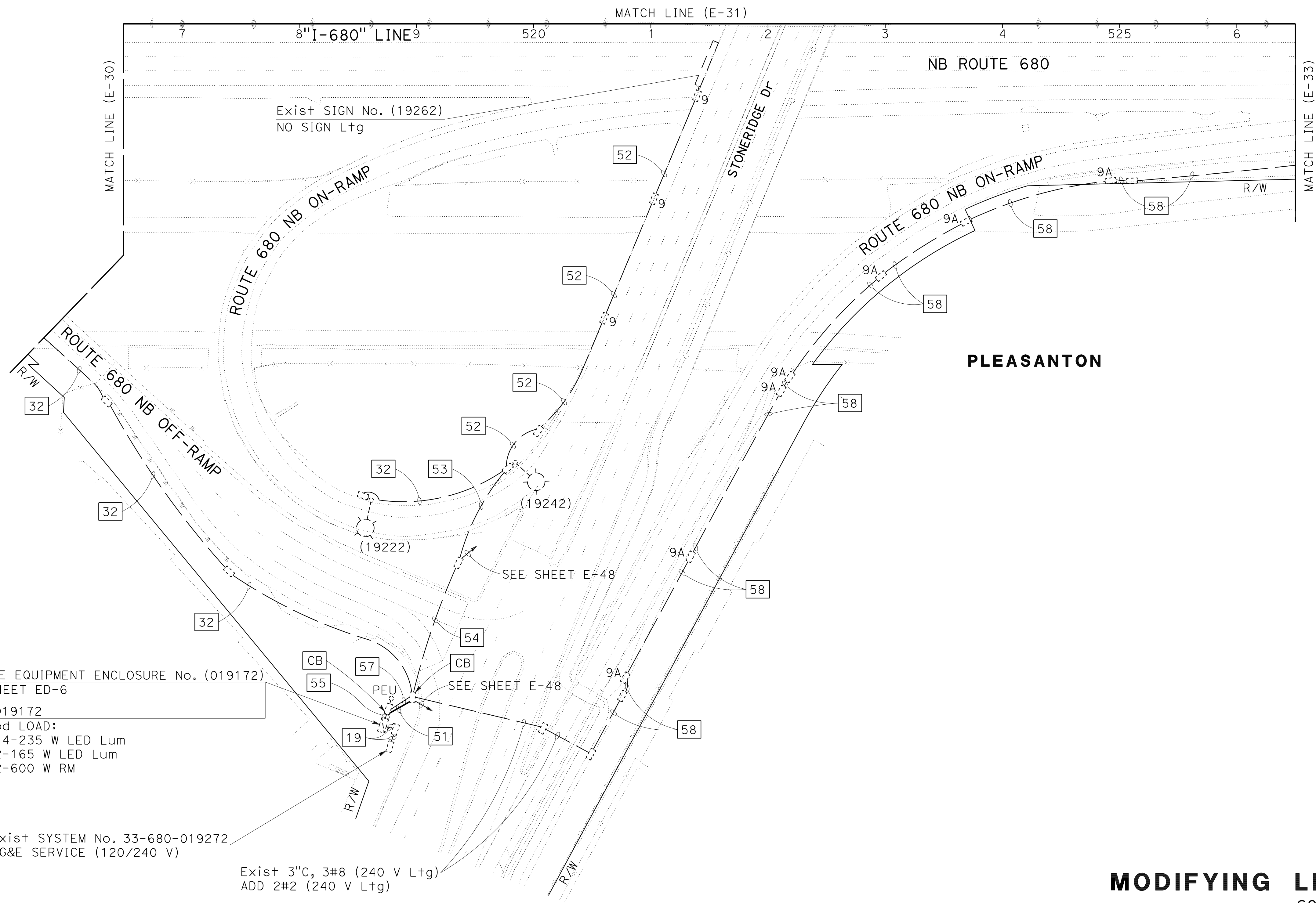
October 8, 2021
PLANS APPROVAL DATE

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 REVISIONS: MY 9-29-21
 MENG YANG
 DAN K. YAU
 TIMOTHY J. LEE
 Y&C TRANSPORTATION CONSULTANTS, INC.



56 Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (019172)
SEE WIRING DIAGRAM ON SHEET ED-6

Exist CTID No. 0433680R019172
Exist LOAD: Mod LOAD:
4-235 W LED Lum 14-235 W LED Lum
2-165 W LED Lum 2-165 W LED Lum
2-600 W RM 2-600 W RM

Exist SYSTEM No. 33-680-019272
PG&E SERVICE (120/240 V)

Exist 3" C, 3#8 (240 V Ltg)
ADD 2#2 (240 V Ltg)

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'
E-32

NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER DATE 9-29-21

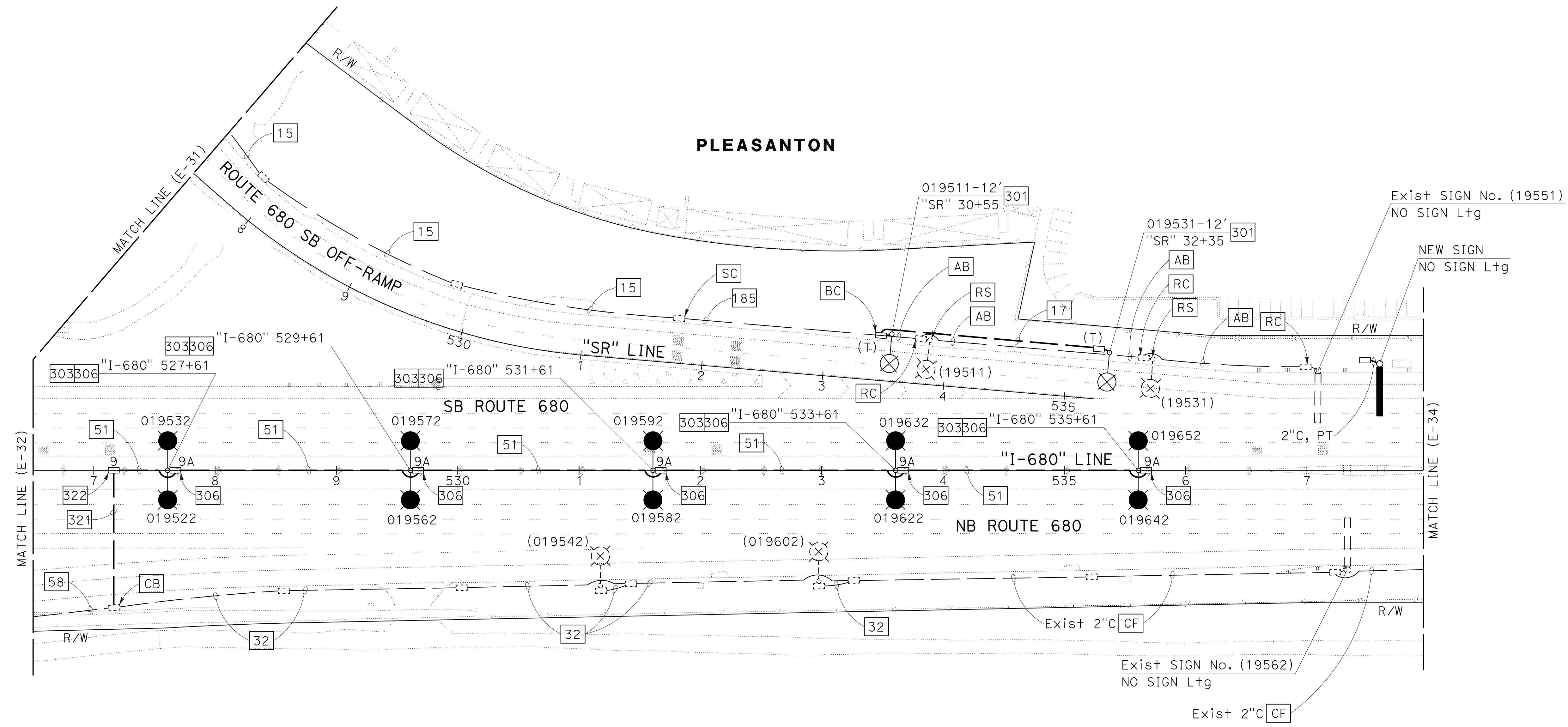
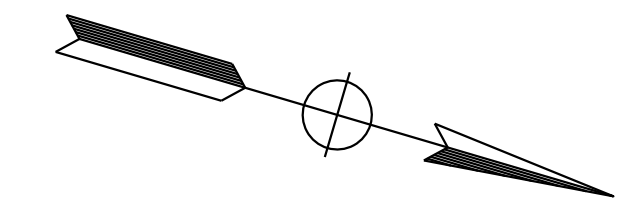
October 8, 2021
PLANS APPROVAL DATE

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200 Brown Rd, Suite 108
Fremont, CA 94539

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607

REGISTERED PROFESSIONAL ENGINEER
KIN Y. CHAN
No. 55391
Exp. 12/31/22
CIVIL
STATE OF CALIFORNIA



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS

SCALE: 1" = 50'

E-33

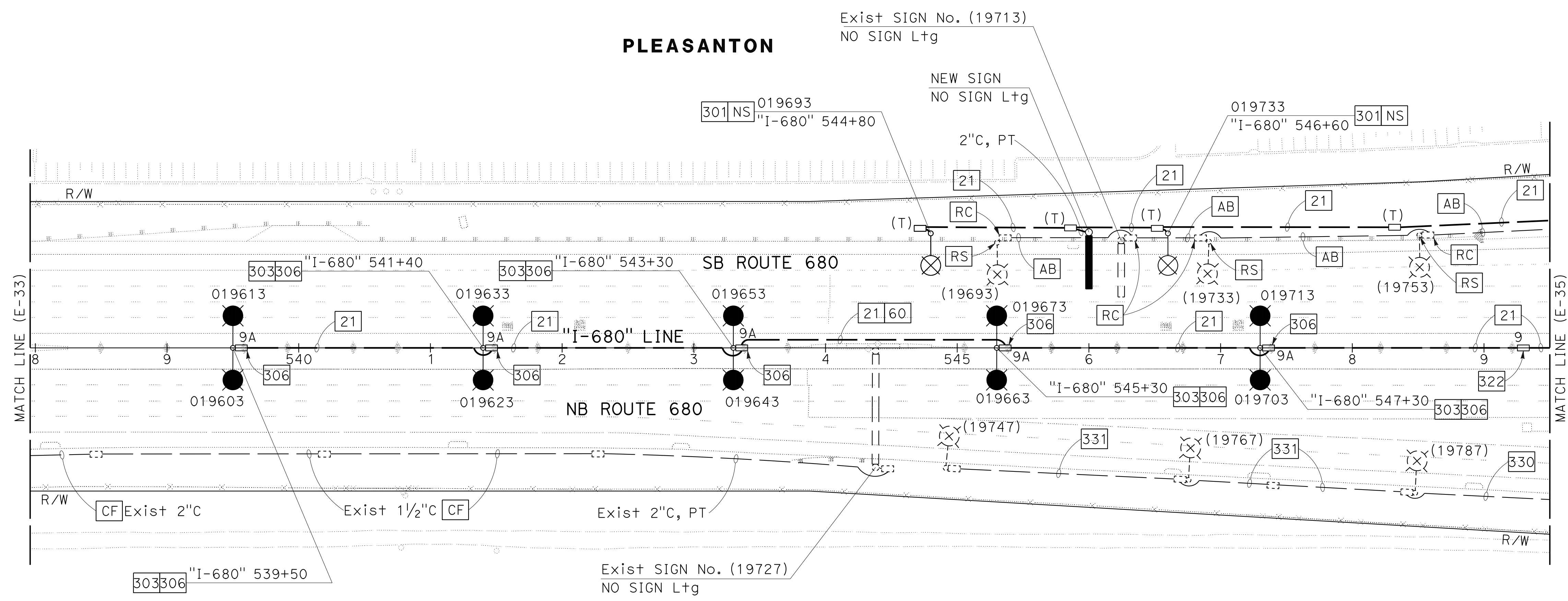
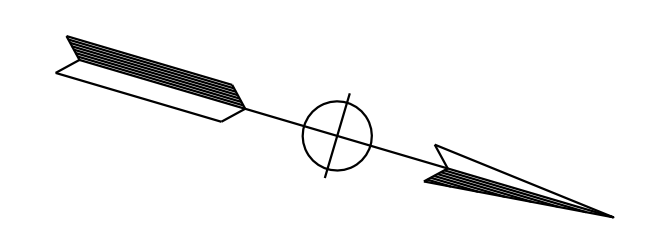
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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Y&C TRANSPORTATION CONSULTANTS, INC.
 SUPERVISOR: TIMOTHY J. LEE
 DESIGNED BY: MING YANG
 CHECKED BY: DAN K. YAU
 REVISIONS: MY 9-29-21
 DATE REVISION: 9-29-21

LAST REVISION: 09-29-21
 DATE PLOTTED => 8-MAR-2022
 TIME PLOTTED => 16:40

NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1157	1710
			9-29-21	REGISTERED CIVIL ENGINEER DATE	
			October 8, 2021	PLANS APPROVAL DATE	
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
	TIMOTHY J. LEE	MENG YANG	MY	DAN K. YAU	9-29-21

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS

SCALE: 1" = 50'

E-34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1158	1710

<i>Kin Y. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE

October 8, 2021
PLANS APPROVAL DATE

Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
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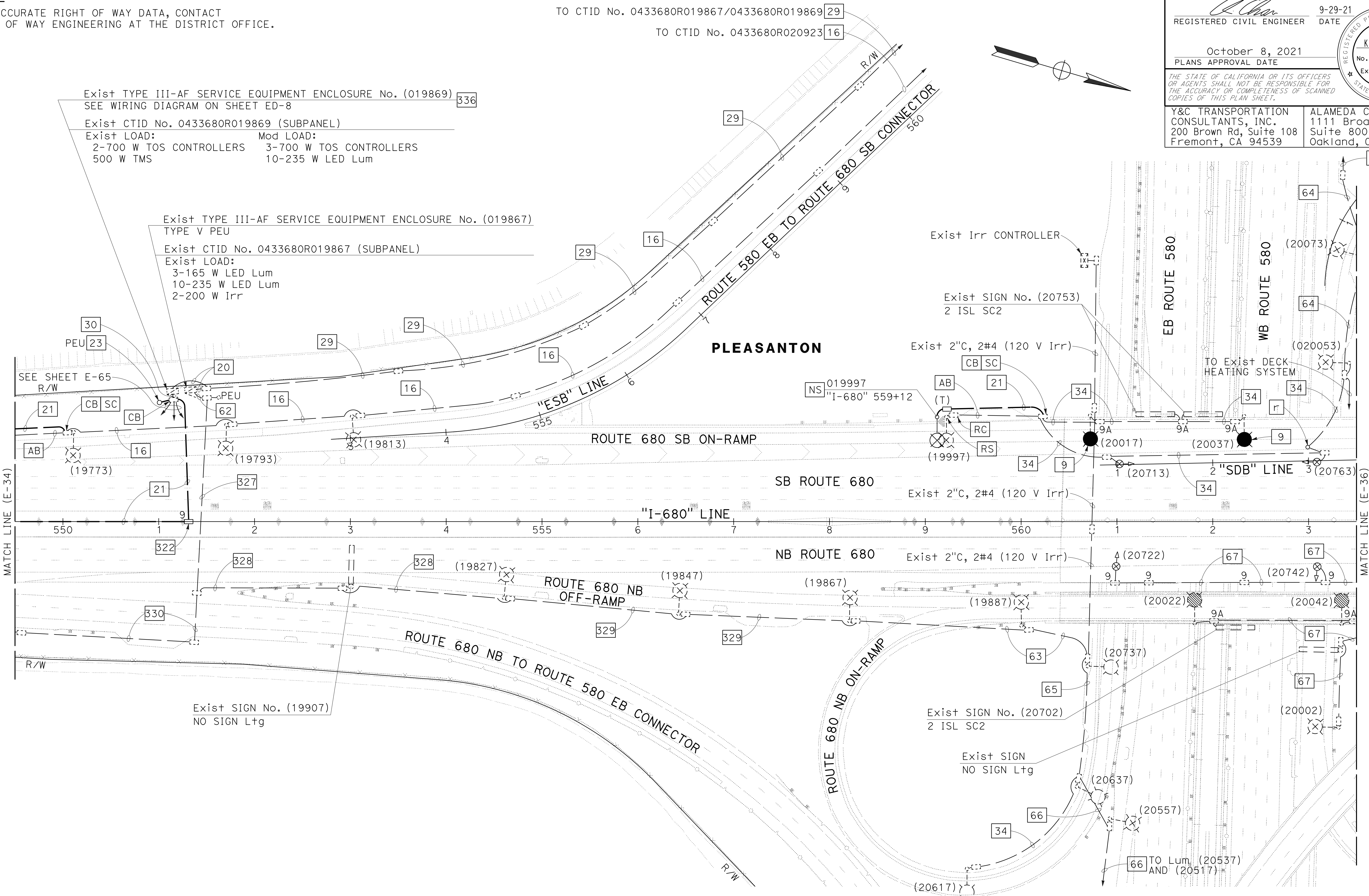
NOTE:

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

TO CTID No. 0433680R019867/0433680R019869 [29]
TO CTID No. 0433680R020923 [16]

Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (019869) [336]
SEE WIRING DIAGRAM ON SHEET ED-8
Exist CTID No. 0433680R019869 (SUBPANEL)
Exist LOAD: 2-700 W TOS CONTROLLERS 500 W TMS
Mod LOAD: 3-700 W TOS CONTROLLERS 10-235 W LED Lum

Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (019867)
TYPE V PEU
Exist CTID No. 0433680R019867 (SUBPANEL)
Exist LOAD: 3-165 W LED Lum 10-235 W LED Lum 2-200 W Irr



MODIFYING LIGHTING SYSTEMS

SCALE: 1" = 50'

E-35

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans
 CONSULTANT SUPERVISOR: TIMOTHY J. LEE
 CHECKED BY: DAN K. YAU
 DESIGNED BY: MENG YANG
 REVISED BY: MY
 DATE REVISED: 9-29-21

335 TO Exist SYSTEM No. 33-680-020215
SEE SHEET E-81

NOTE:

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1159	1710

REGISTERED CIVIL ENGINEER
KIN Y. CHAN
No. 55391
Exp. 12/31/22
CIVIL
STATE OF CALIFORNIA

9-29-21
DATE

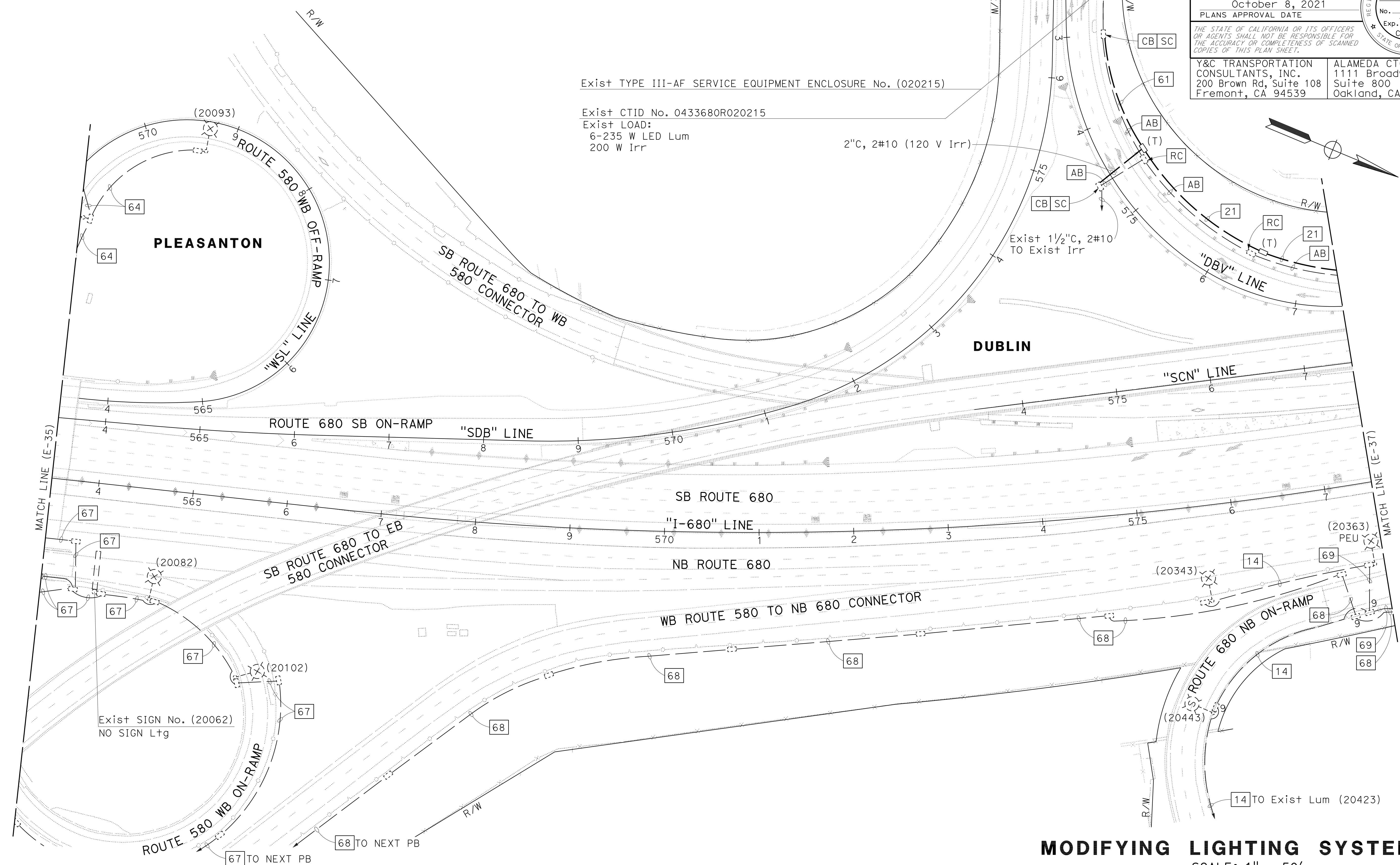
October 8, 2021
PLANS APPROVAL DATE

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Fremont, CA 94539

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607

MY	9-29-21	REVISOR	DATE
MENG YANG		DAN K. YAU	
CALCULATED/DESIGNED BY		CHECKED BY	
TIMOTHY J. LEE			
CONSULTANT	FUNCTIONAL SUPERVISOR		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION			



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

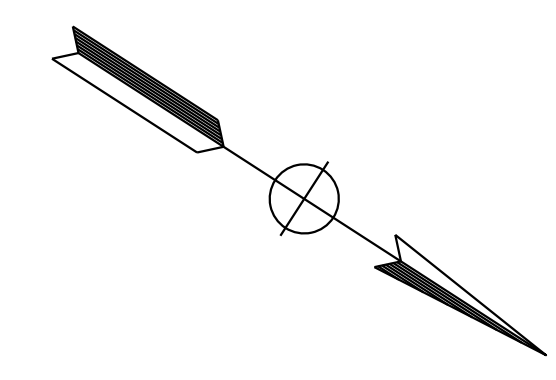
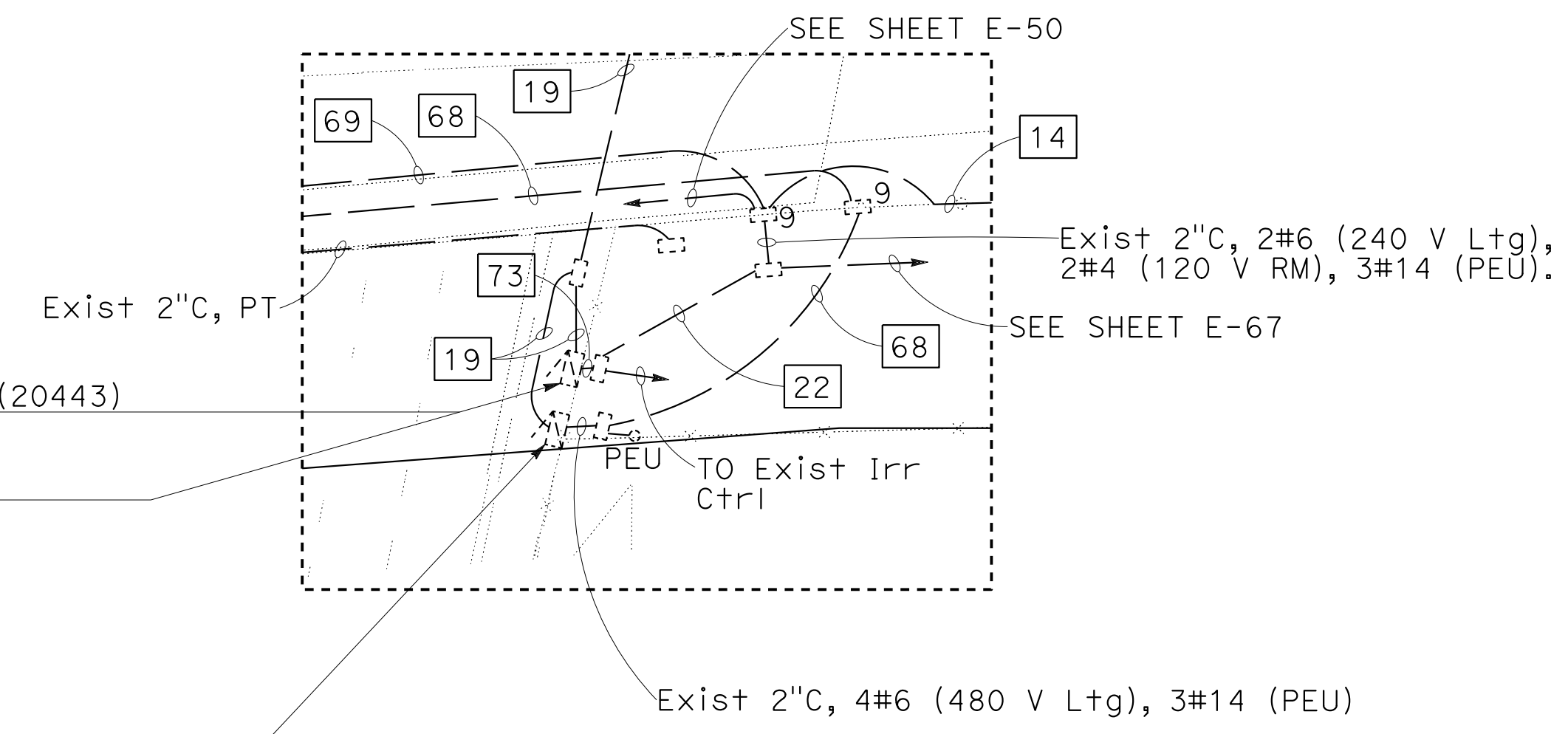
APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

E-36

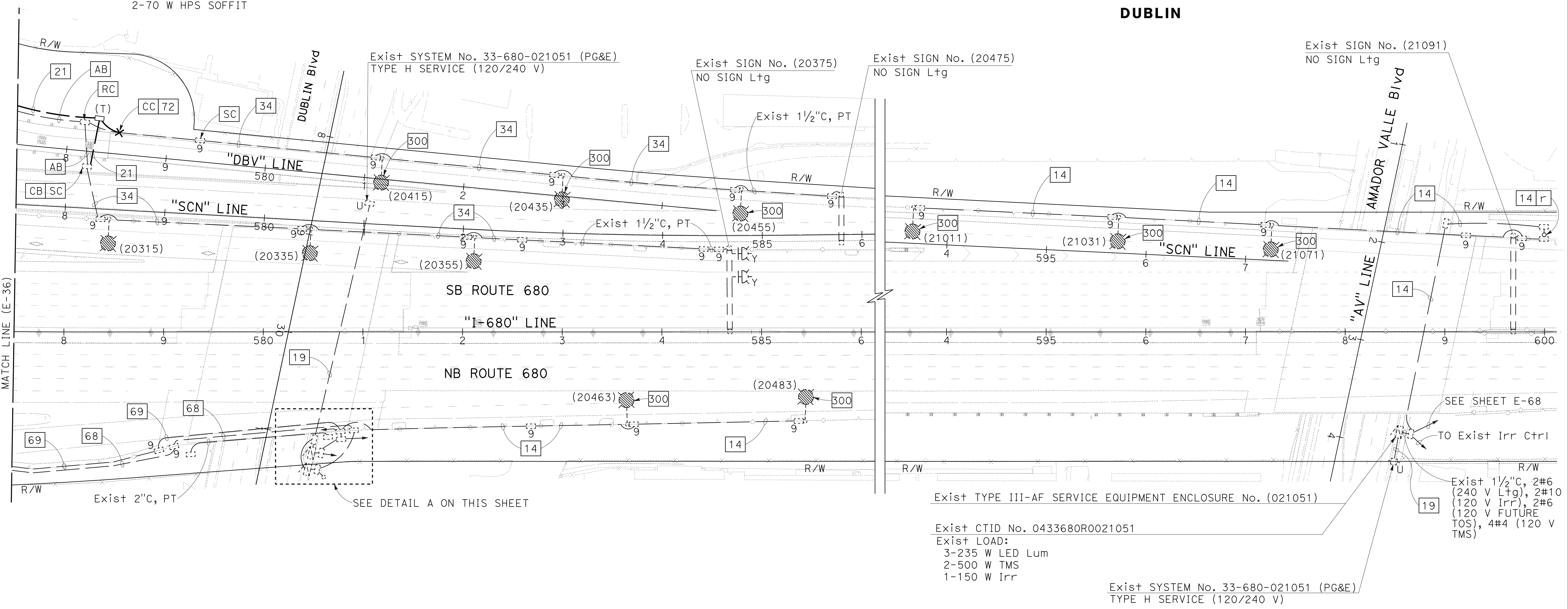
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1160	1710
			REGISTERED CIVIL ENGINEER	DATE	
			October 8, 2021		
			PLANS APPROVAL DATE		
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NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



- Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (20443)
- Exist CTID No. 0433680R0020443
- Exist LOAD:
2-165 W LED Lum
4-235 W LED Lum
500 W RM
500 W TMS
150 W Irr
- Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (20382)
- Exist CTID No. 0433680R0020382
- Exist LOAD:
11-235 W LED Lum
2-70 W HPS SOFFIT

DETAIL A
SCALE: 1" = 50'



DUBLIN

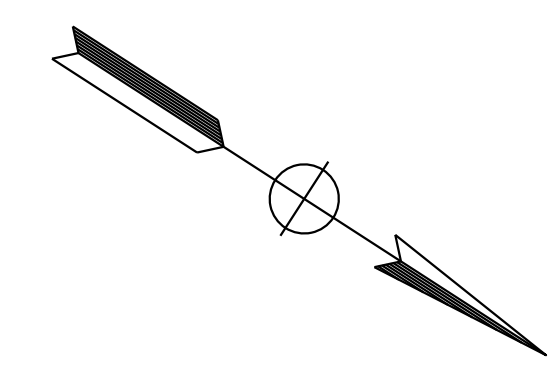
MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT - FUNCTIONAL SUPERVISOR
 CONSULTANT - SUPERVISOR
 CALCULATED - DESIGNED BY
 CHECKED BY
 MING YANG
 DAN K. YAU
 MY
 9-29-21
 REVISED BY
 DATE REVISED
 TIMOTHY J. LEE

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

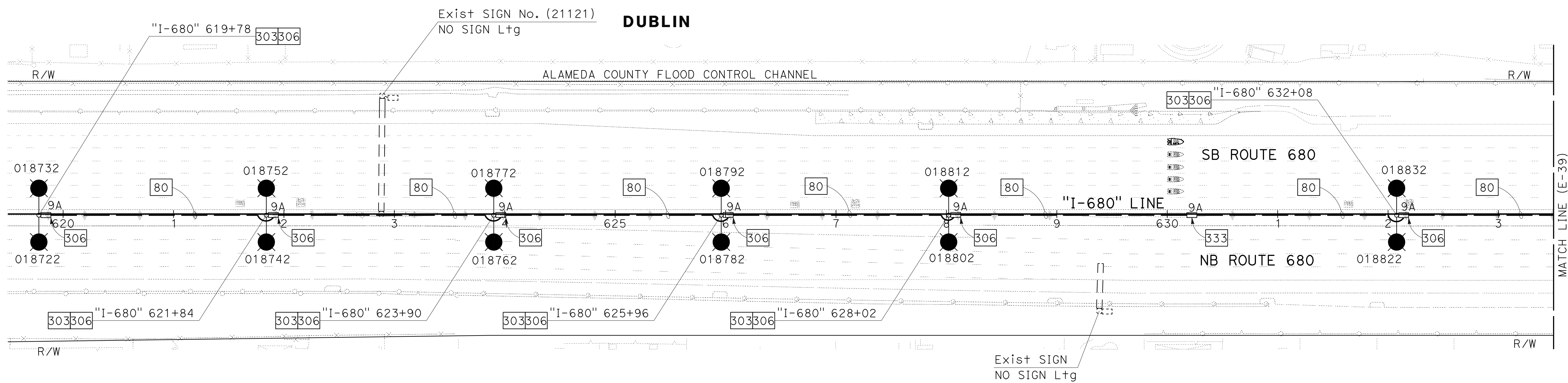
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1161	1710
			9-29-21		
REGISTERED CIVIL ENGINEER			DATE		
October 8, 2021			PLANS APPROVAL DATE		
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		



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

MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CALCULATED/DESIGNED BY	CHECKED BY
TIMOTHY J. LEE	
CONSULTANT	FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

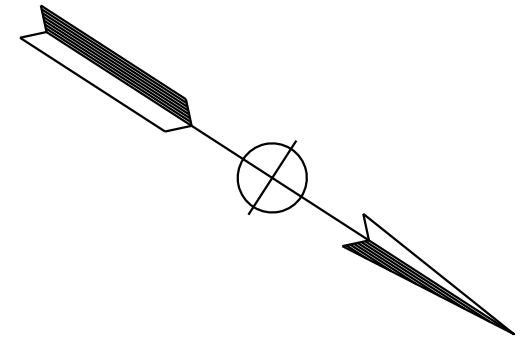
E-38

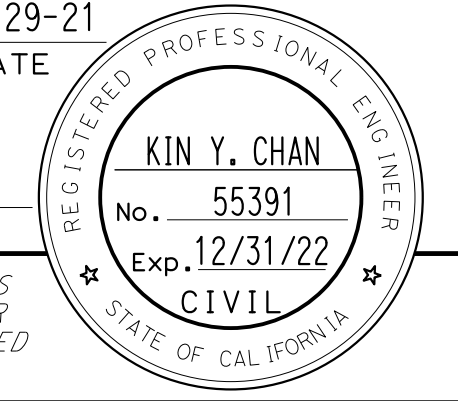
LAST REVISION DATE PLOTTED => 8-MAR-2022 09-29-21 TIME PLOTTED => 16:41

NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1162	1710





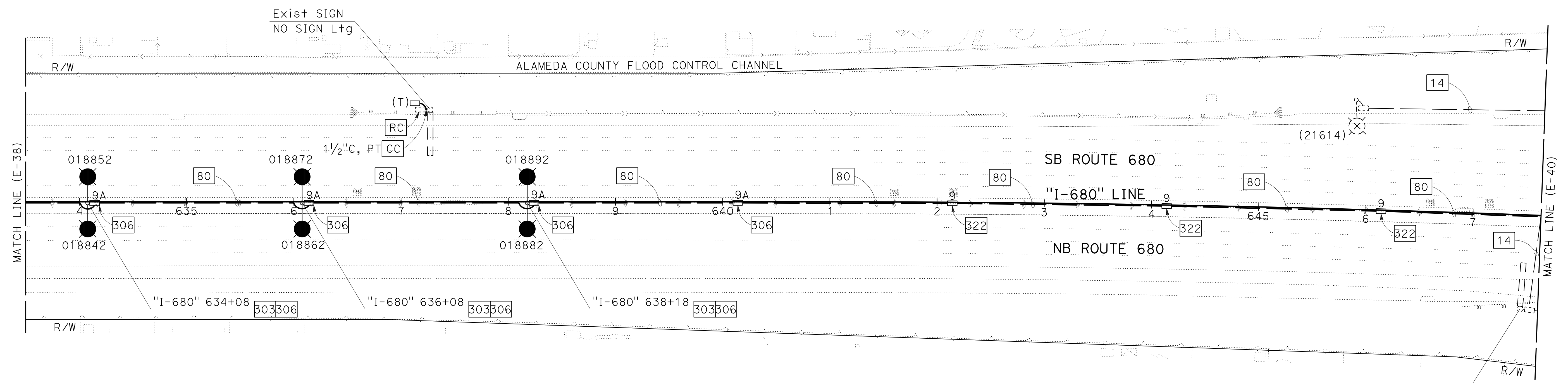
REGISTERED CIVIL ENGINEER DATE 9-29-21
 October 8, 2021
 PLANS APPROVAL DATE

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MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CHECKED BY	
DESIGNED BY	
FUNCTIONAL SUPERVISOR	TIMOTHY J. LEE
CONSULTANT	DEPARTMENT OF TRANSPORTATION

DUBLIN



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING LIGHTING SYSTEMS
SCALE: 1" = 50'

E-39

0:\0030\DRAWING\FINAL_P58E\0420000235u0039.dgn



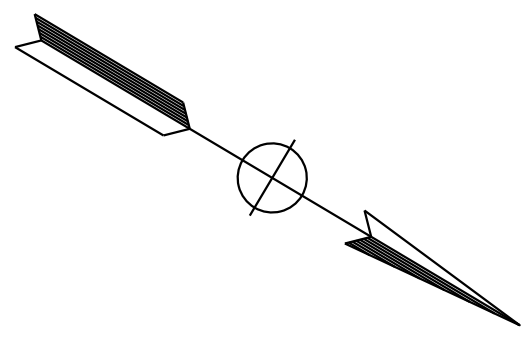
LAST REVISION DATE PLOTTED => 8-MAR-2022
09-29-21 TIME PLOTTED => 16:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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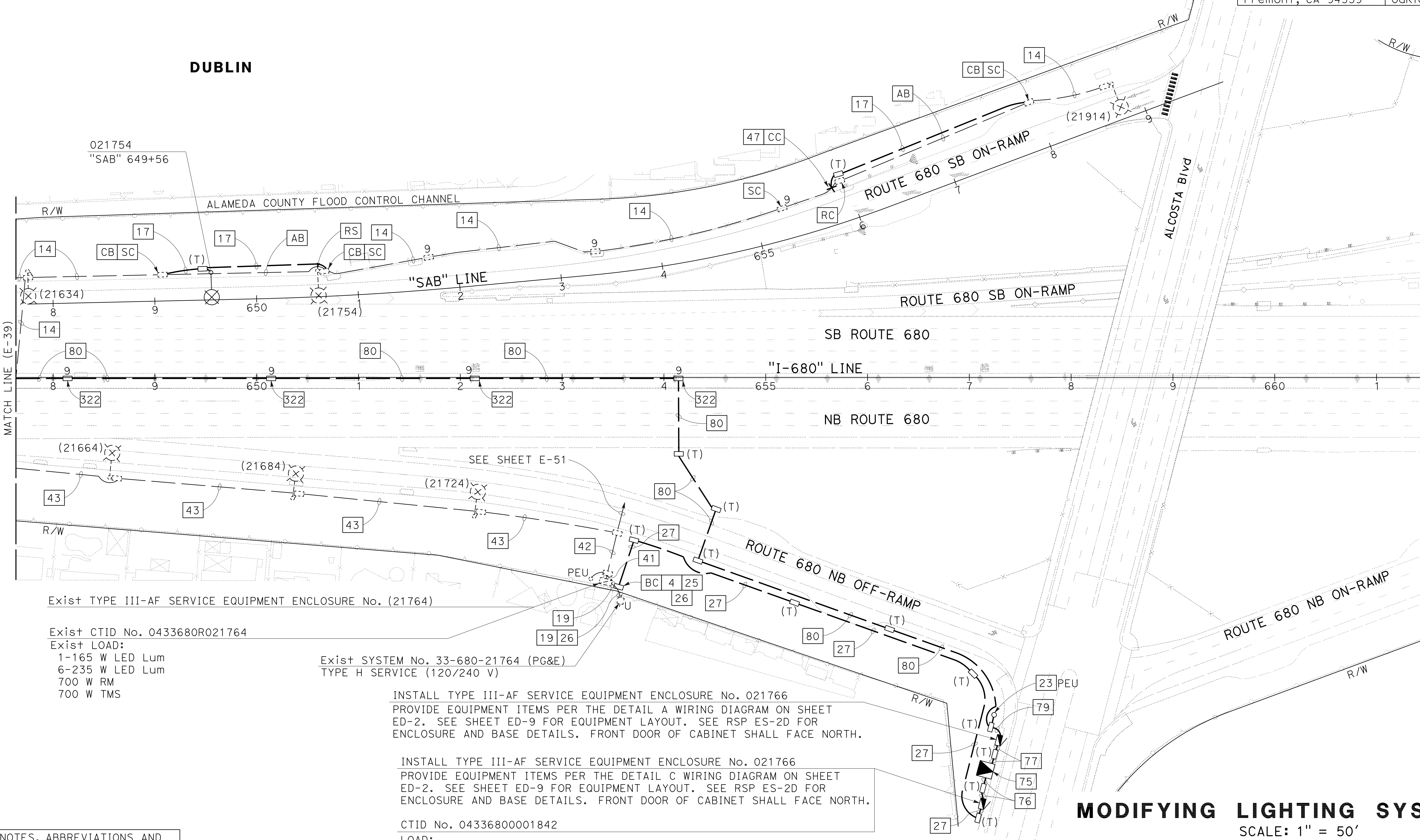
REGISTERED CIVIL ENGINEER	DATE
<i>Kin Y. Chan</i>	9-29-21
October 8, 2021	PLANS APPROVAL DATE

Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
--	--

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



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT - FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 REVISIONS: MY 9-29-21
 CHECKED BY
 TIMOTHY J. LEE
 MENG YANG
 DAN K. YAU
 0:\0030\UDRAFTING\FINAL_P58E\0420000235u040.dgn
 09-29-21 16:41



Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (21764)

Exist CTID No. 0433680R021764
 Exist LOAD:
 1-165 W LED Lum
 6-235 W LED Lum
 700 W RM
 700 W TMS

Exist SYSTEM No. 33-680-21764 (PG&E)
 TYPE H SERVICE (120/240 V)

INSTALL TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. 021766
 PROVIDE EQUIPMENT ITEMS PER THE DETAIL A WIRING DIAGRAM ON SHEET ED-2. SEE SHEET ED-9 FOR EQUIPMENT LAYOUT. SEE RSP ES-2D FOR ENCLOSURE AND BASE DETAILS. FRONT DOOR OF CABINET SHALL FACE NORTH.

INSTALL TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. 021766
 PROVIDE EQUIPMENT ITEMS PER THE DETAIL C WIRING DIAGRAM ON SHEET ED-2. SEE SHEET ED-9 FOR EQUIPMENT LAYOUT. SEE RSP ES-2D FOR ENCLOSURE AND BASE DETAILS. FRONT DOOR OF CABINET SHALL FACE NORTH.

CTID No. 04336800001842
 LOAD:
 18-235 W LED Lum **APPROVED FOR ELECTRICAL WORK ONLY**


FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

MODIFYING LIGHTING SYSTEMS
 SCALE: 1" = 50'
E-40

NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1164	1710

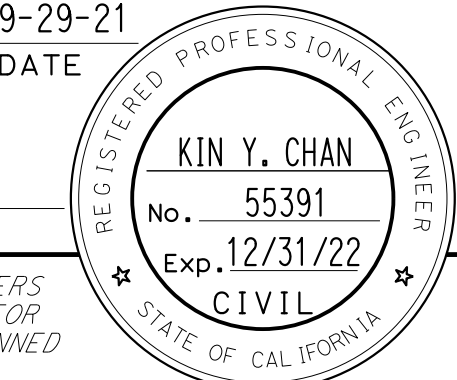
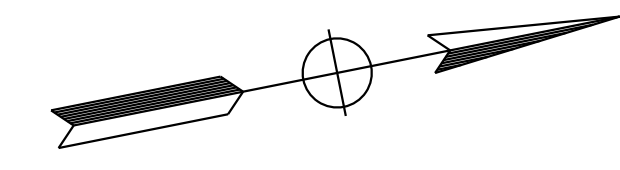
 9-29-21
 REGISTERED CIVIL ENGINEER DATE

October 8, 2021
 PLANS APPROVAL DATE

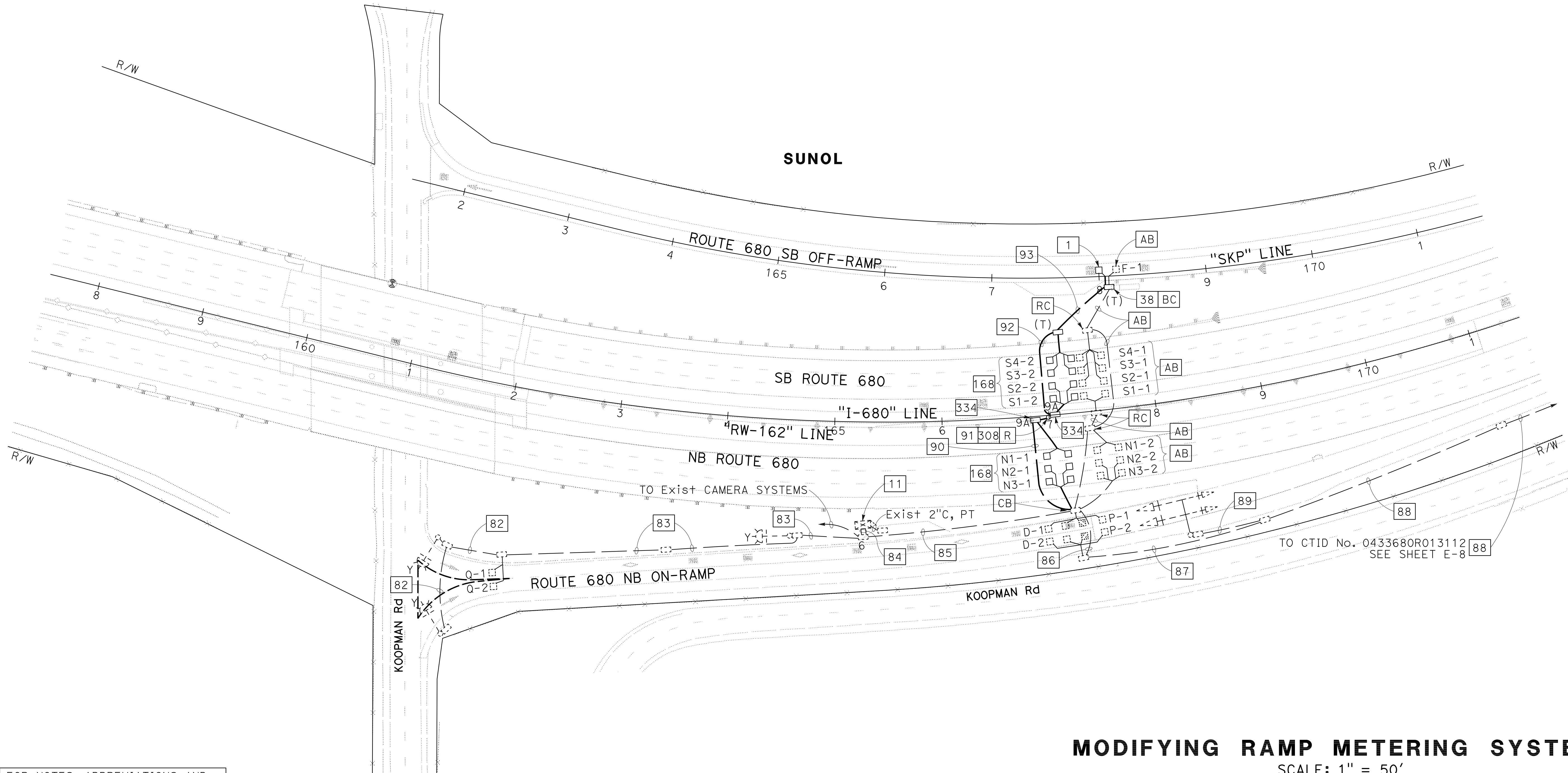
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 200 Brown Rd, Suite 108
 Fremont, CA 94539

ALAMEDA CTC
 1111 Broadway
 Suite 800
 Oakland, CA 94607

MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CALCULATED/DESIGNED BY	CHECKED BY
TIMOTHY J. LEE	
CONSULTANT FUNCTIONAL SUPERVISOR	
DEPARTMENT OF TRANSPORTATION	



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING RAMP METERING SYSTEMS

SCALE: 1" = 50'

E-41

O:\00300\DRAWING\FINAL_P58E\0420000235u041.dgn



LAST REVISION DATE PLOTTED => 8-MAR-2022 09-29-21 TIME PLOTTED => 16:41

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

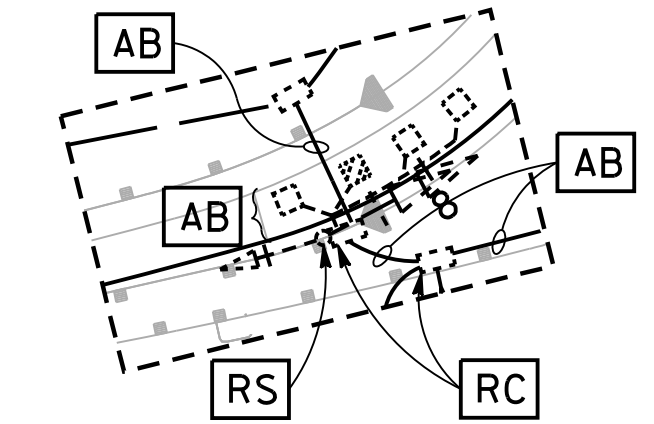
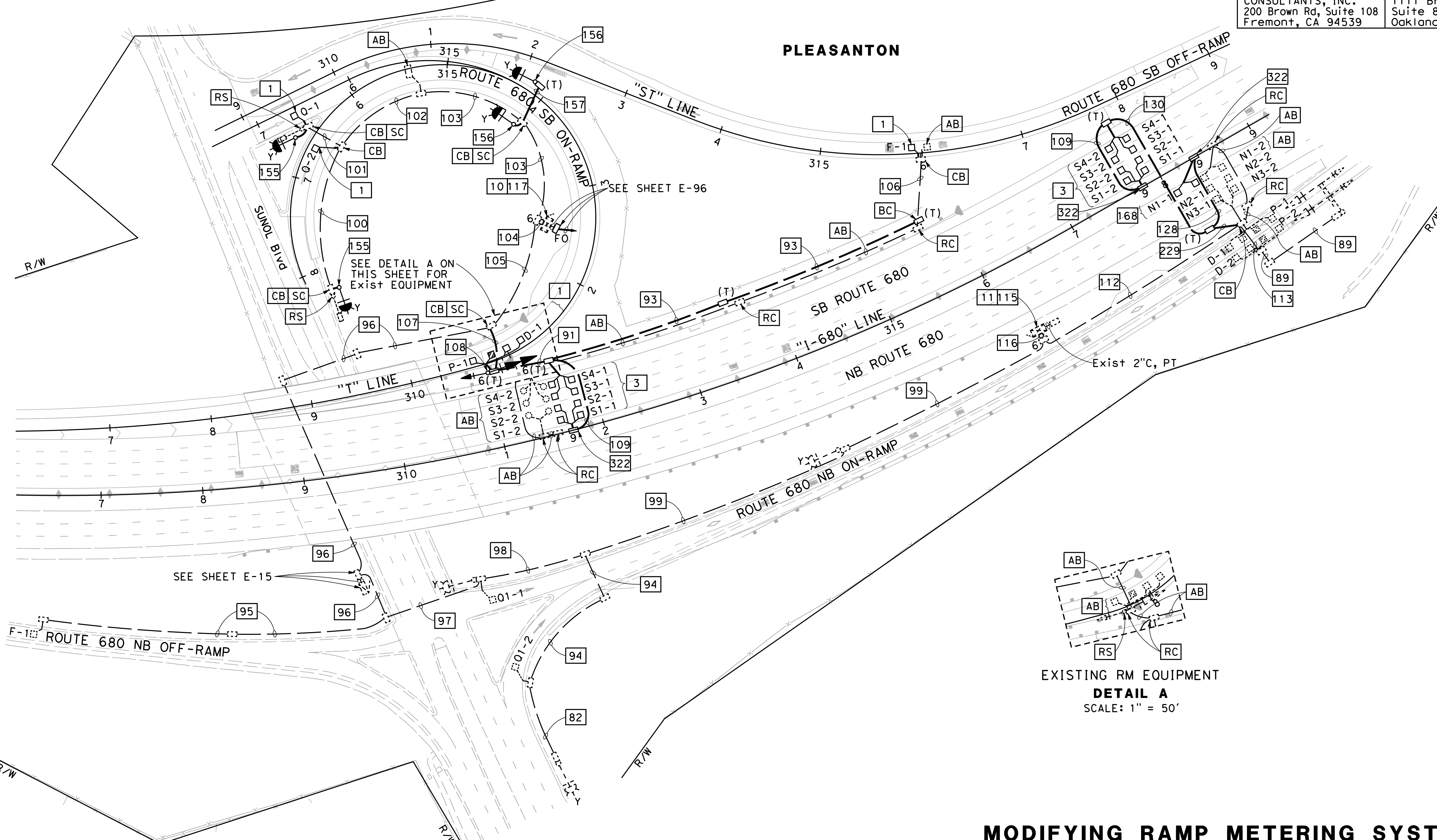
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1165	1710

REGISTERED CIVIL ENGINEER **KIN Y. CHAN** No. 55391 Exp. 12/31/22
 DATE 9-29-21
 October 8, 2021
 PLANS APPROVAL DATE

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Fremont, CA 94539

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607



EXISTING RM EQUIPMENT
DETAIL A
SCALE: 1" = 50'

MODIFYING RAMP METERING SYSTEMS

SCALE: 1" = 50'

E-42

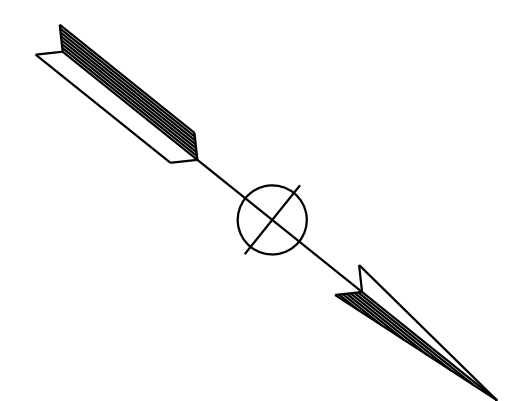
FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT: MENG YANG
 SUPERVISOR: DAN K. YAU
 CHECKED BY: TIMOTHY J. LEE
 DESIGNED BY: MY
 DATE REVISION: 9-29-21

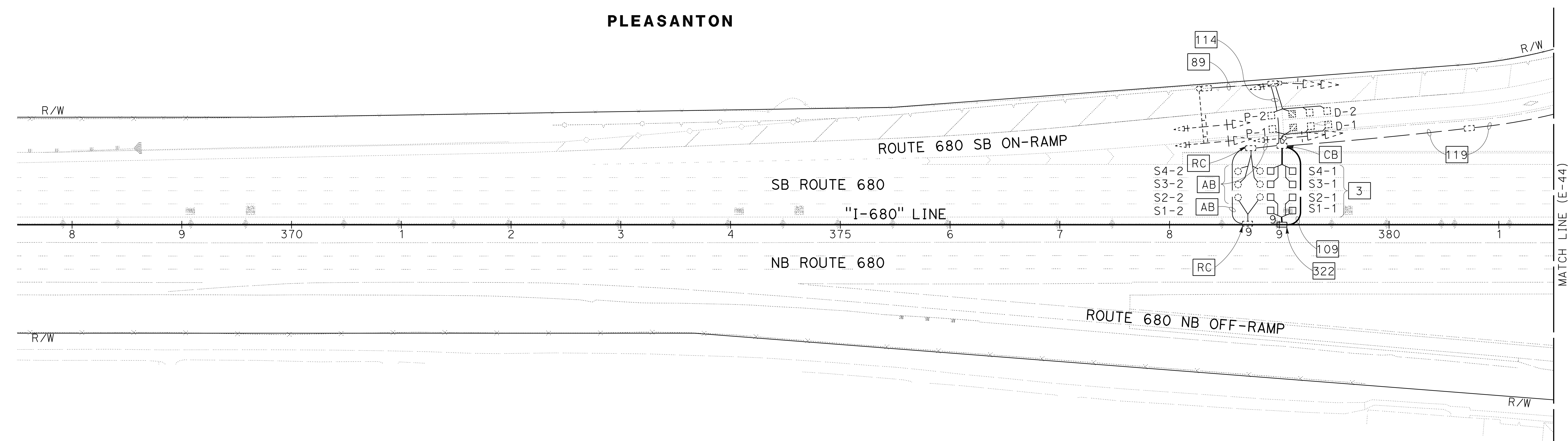
O:\00300\DRAWING\FINAL_P58E\0420000235u043.dgn
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans®
 CONSULTANT: FUNCTIONAL SUPERVISOR: TIMOTHY J. LEE
 CALCULATED/DESIGNED BY: CHECKED BY:
 MENG YANG DAN K. YAU
 REVISED BY: DATE REVISED: MY 9-29-21
 DIST COUNTY ROUTE POST MILES TOTAL PROJECT SHEET No. TOTAL SHEETS
 04 Alameda CC 680 R11.0/R21.9, R0.0/R0.9 1166 1710

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



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1166	1710

REGISTERED CIVIL ENGINEER DATE 9-29-21
 KIN Y. CHAN No. 55391 Exp. 12/31/22 CIVIL
 October 8, 2021 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.
 Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539
 ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

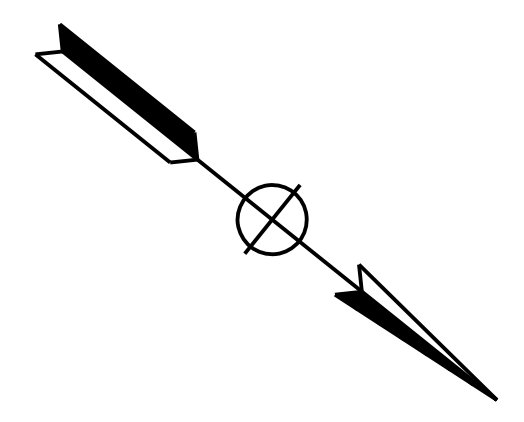
APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING RAMP METERING SYSTEMS
 SCALE: 1" = 50'

E-43

LAST REVISION DATE PLOTTED => 8-MAR-2022
 09-29-21 TIME PLOTTED => 16:41

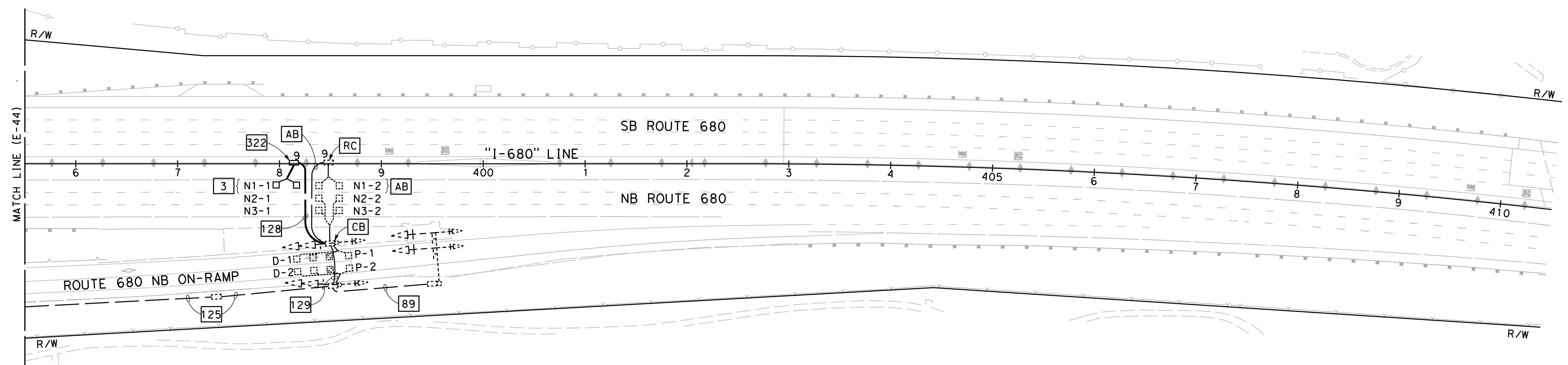
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1168	1710
			9-29-21		
REGISTERED CIVIL ENGINEER			DATE		
October 8, 2021			PLANS APPROVAL DATE		
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		



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

MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CALCULATED-DRAWN BY	CHECKED BY
TIMOTHY J. LEE	
CONSULTANT	FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	

PLEASANTON



MODIFYING RAMP METERING SYSTEMS
SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

E-45

LAST REVISION DATE PLOTTED => 2/11/2022 09-29-21 TIME PLOTTED => 11:19:10 AM

NOTE:

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

Exist 1/2"C, 2#10 (120 V TDC)
TO NEXT PB

SEE SHEET E-31

138 TO TC No. 33-680-19315

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1170	1710

REGISTERED CIVIL ENGINEER DATE 9-29-21

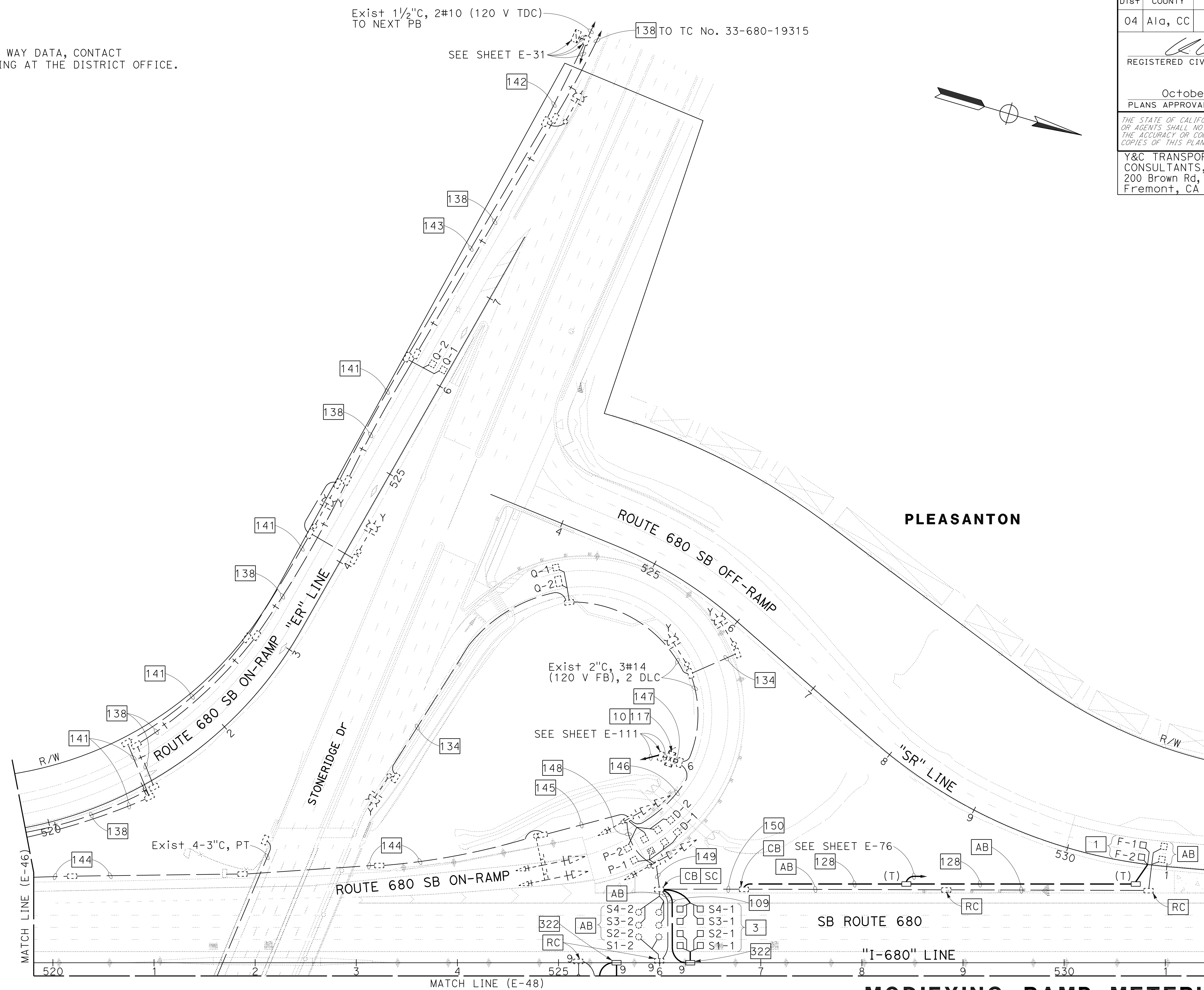
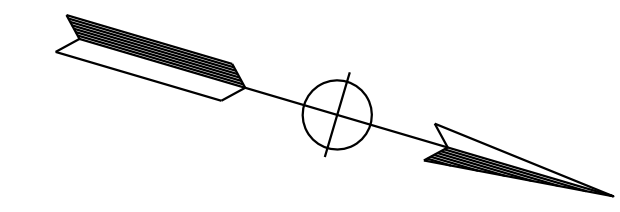
October 8, 2021
PLANS APPROVAL DATE

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Suite 800
Oakland, CA 94607

KIN Y. CHAN
No. 55391
Exp. 12/31/22
CIVIL



PLEASANTON

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING RAMP METERING SYSTEMS

SCALE: 1" = 50'

E-47

0:\0030\UNDRAFTING\FINAL_P58E\0420000235u047.dgn
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT - FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 MING YANG
 DAN K. YAU
 MY
 9-29-21
 REVISOR
 DATE REVISOR
 TIMOTHY J. LEE
 SUPERVISOR
 Y&C TRANSPORTATION CONSULTANTS, INC.
 200 BROWN RD, SUITE 108
 FREMONT, CA 94539
 (925) 463-9000
 WWW.YANDC.COM

LAST REVISION DATE PLOTTED => 8-MAR-2022
 09-29-21 TIME PLOTTED => 16:42

NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1171	1710

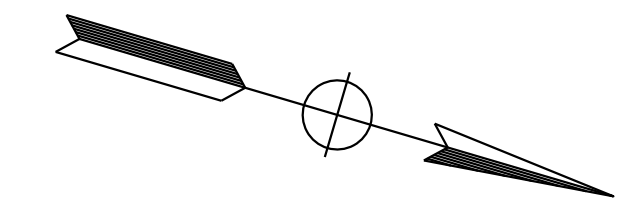
REGISTERED CIVIL ENGINEER DATE 9-29-21

October 8, 2021
PLANS APPROVAL DATE

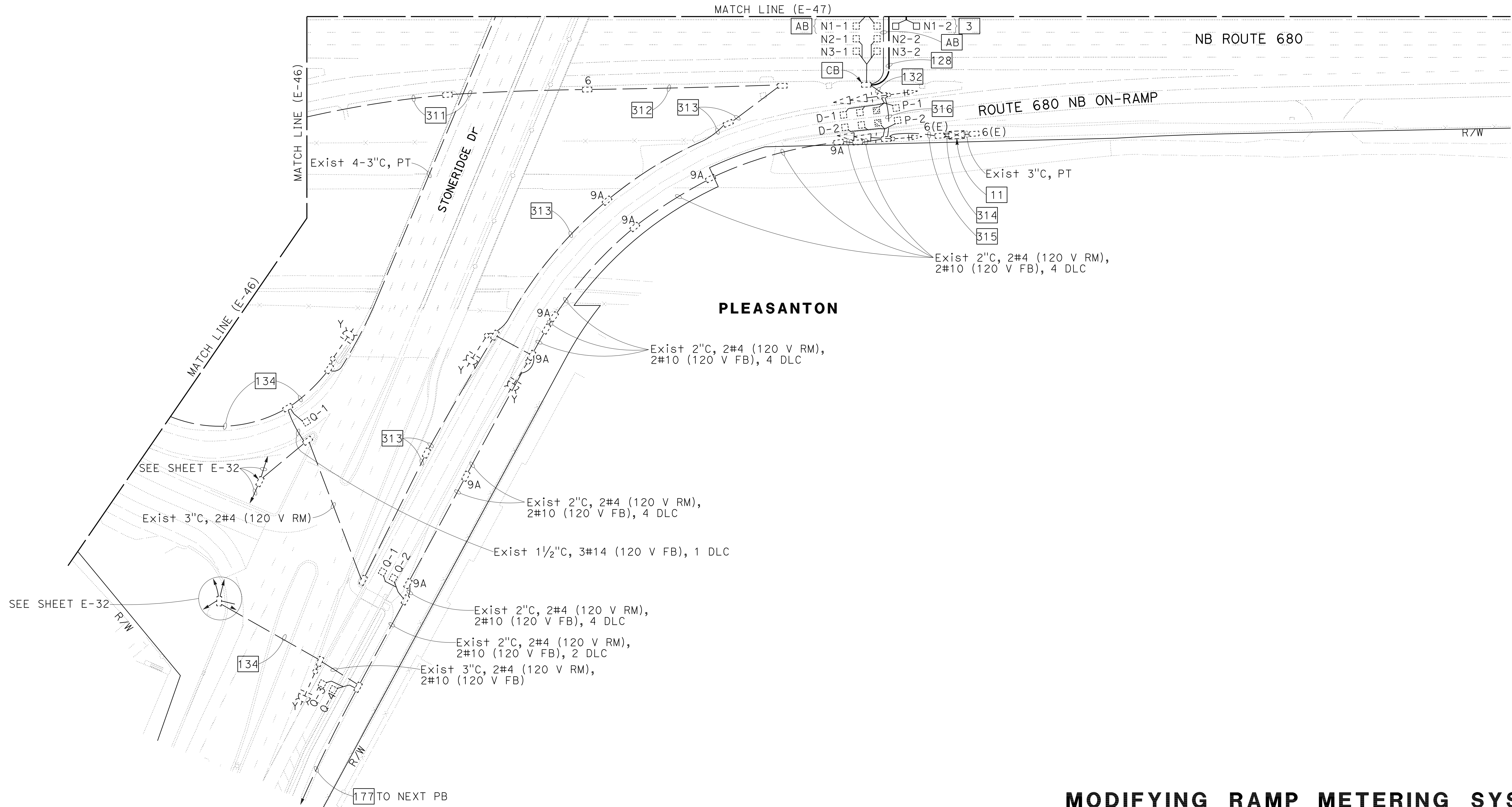
KIN Y. CHAN
No. 55391
Exp. 12/31/22
CIVIL
STATE OF CALIFORNIA

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---	--



MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CALCULATED/DESIGNED BY	CHECKED BY
TIMOTHY J. LEE	
CONSULTANT	FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING RAMP METERING SYSTEMS

SCALE: 1" = 50'

E-48

LAST REVISION DATE PLOTTED => 8-MAR-2022 09-29-21 TIME PLOTTED => 16:42

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

TO Exist SYSTEM No. 33-680-020219 (PG&E)
SEE SHEET E-81

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1172	1710

REGISTERED CIVIL ENGINEER
KIN Y. CHAN
No. 55391
Exp. 12/31/22
CIVIL
STATE OF CALIFORNIA

October 8, 2021
PLANS APPROVAL DATE

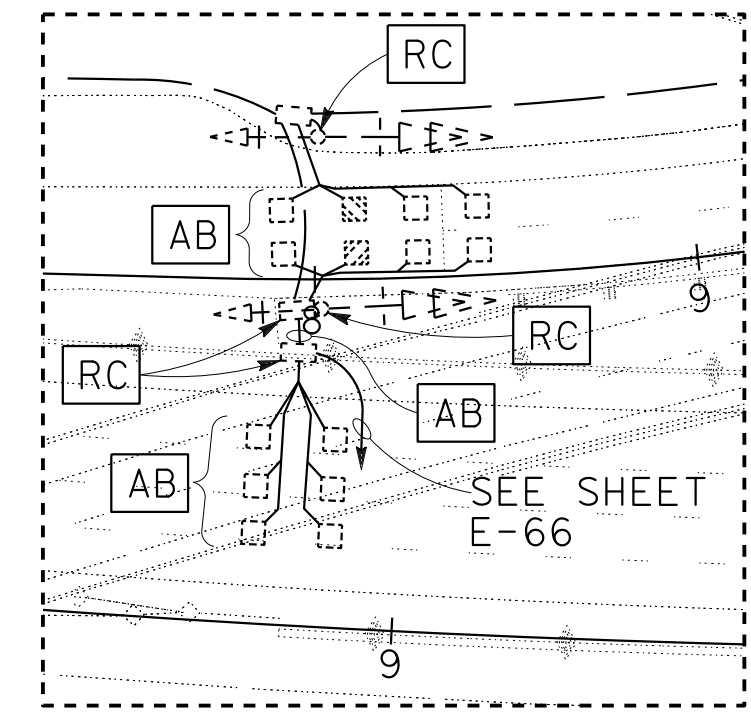
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Y&C TRANSPORTATION CONSULTANTS, INC.
200 Brown Rd, Suite 108
Fremont, CA 94539

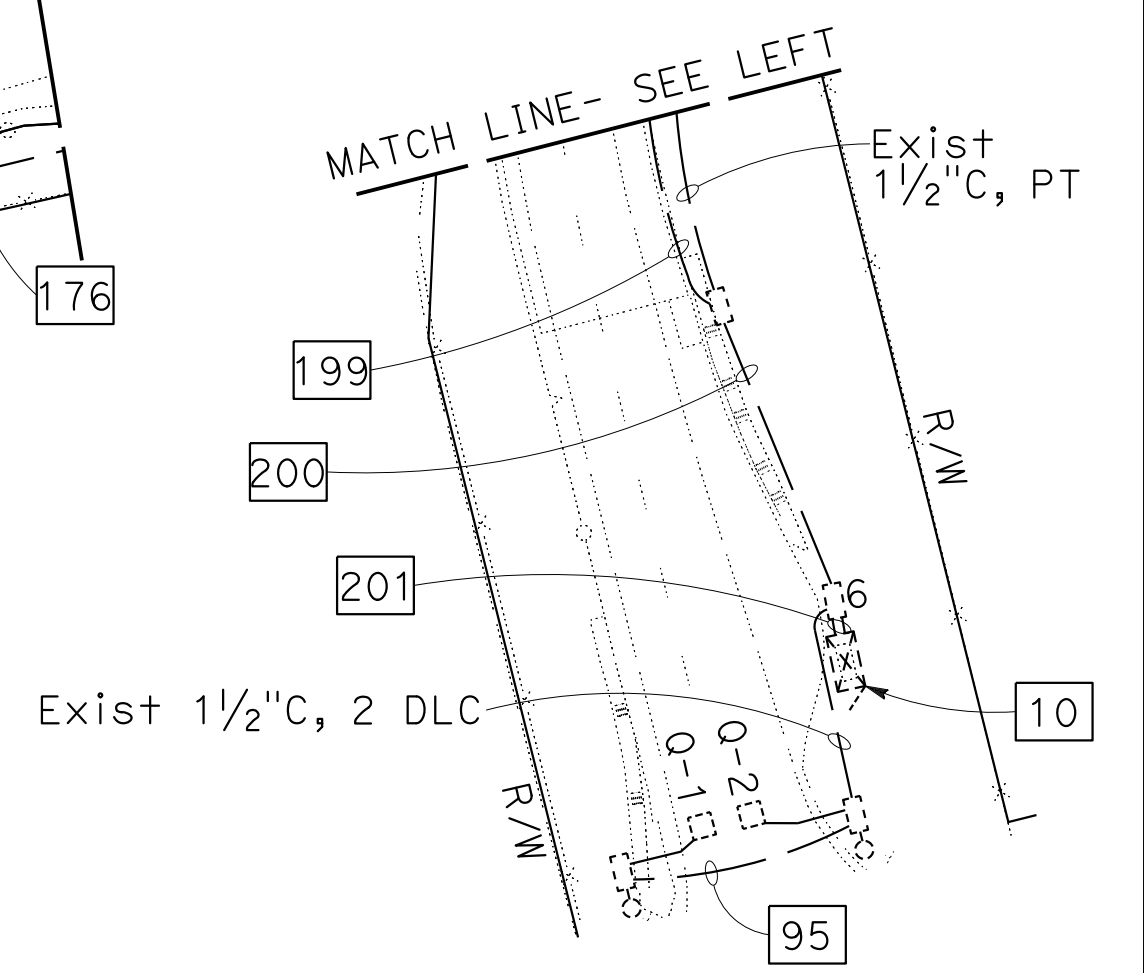
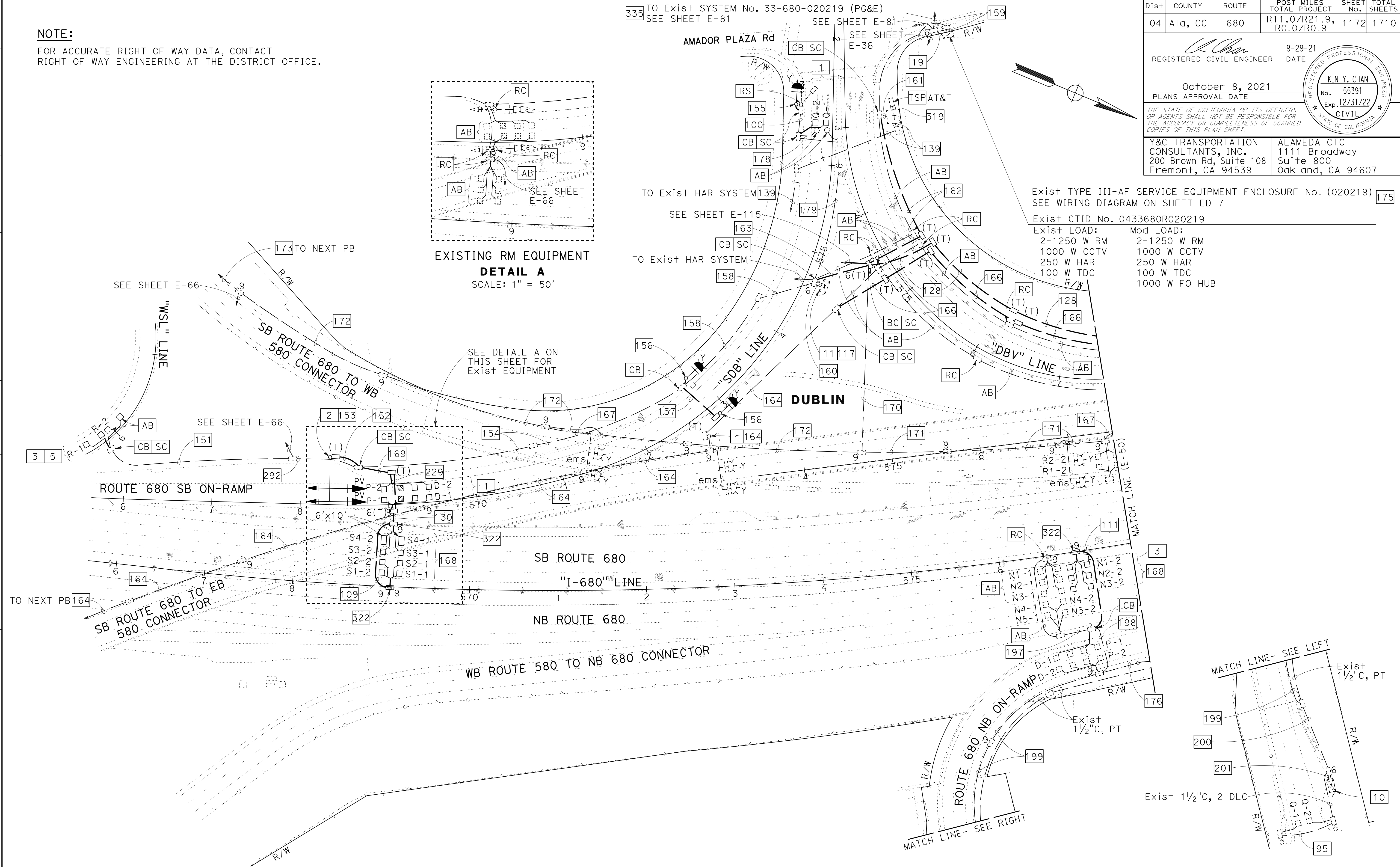
ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607

Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (020219) SEE WIRING DIAGRAM ON SHEET ED-7

Exist CTID No. 0433680R020219
Exist LOAD: 2-1250 W RM, 1000 W CCTV, 250 W HAR, 100 W TDC
Mod LOAD: 2-1250 W RM, 1000 W CCTV, 250 W HAR, 100 W TDC, 1000 W FO HUB



EXISTING RM EQUIPMENT DETAIL A
SCALE: 1" = 50'



MODIFYING RAMP METERING SYSTEMS
SCALE: 1" = 50'

0:\0030\NDRAFT\TING\FINAL_P58E\0420000235u049.dgn
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT - FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 REVISIONS: MY 9-29-21
 REVISED BY: DAN K. YAU
 DATE REVISED: 9-29-21
 MING YANG
 TIMOTHY J. LEE

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

USERNAME => p302438
DGN FILE => 0420000235u049.dgn

RELATIVE BORDER SCALE IS IN INCHES



UNIT 0733

PROJECT NUMBER & PHASE

04200002351

BORDER LAST REVISED 7/2/2010

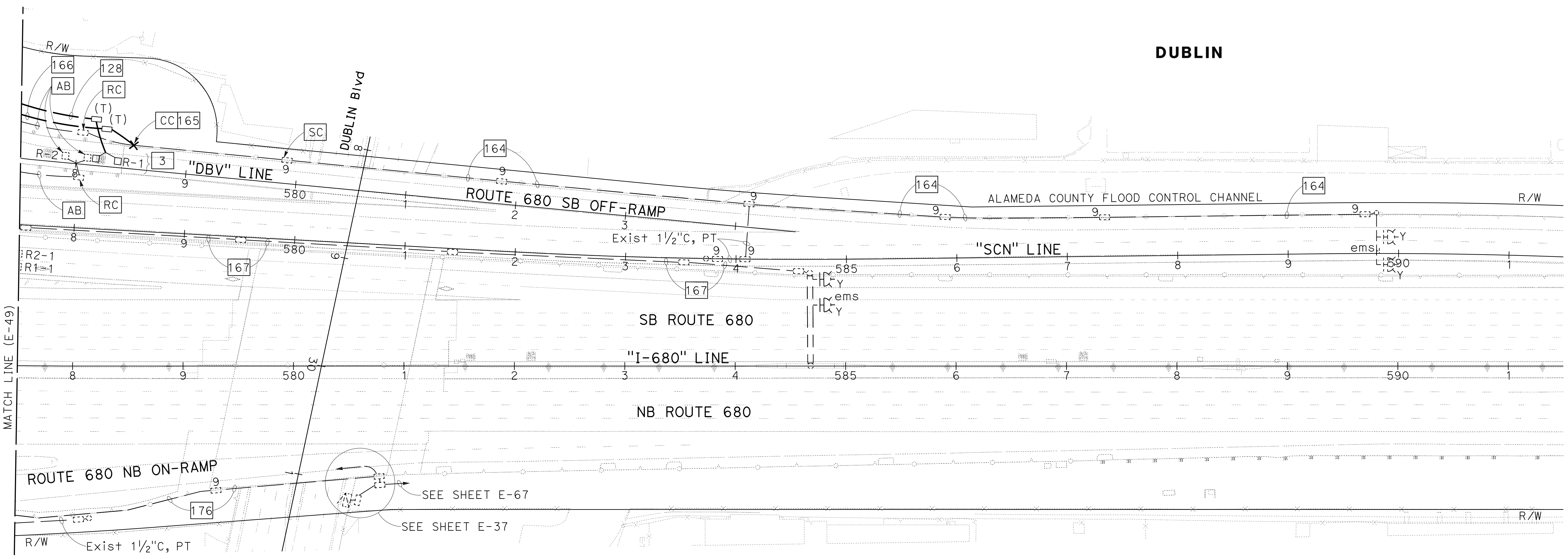
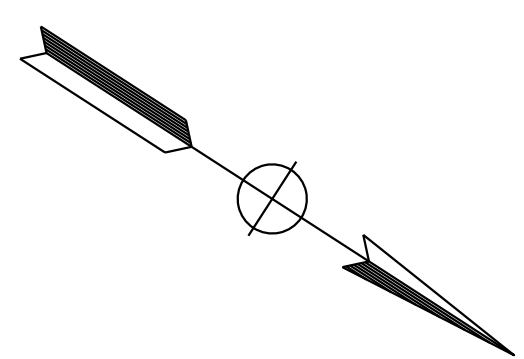
LAST REVISION: DATE PLOTTED => 8-MAR-2022
 09-29-21 TIME PLOTTED => 16:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1173	1710

<i>Kin Y. Chan</i> REGISTERED CIVIL ENGINEER	9-29-21 DATE
October 8, 2021 PLANS APPROVAL DATE	

Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
---	--

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



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT - FUNCTIONAL SUPERVISOR	REVISOR	DATE
Y&C TRANSPORTATION	TIMOTHY J. LEE	MY	9-29-21
DESIGNED BY	CHECKED BY	REVISOR	DATE
MENG YANG	DAN K. YAU	MY	9-29-21

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING RAMP METERING SYSTEMS

SCALE: 1" = 50'

E-50

LAST REVISION DATE PLOTTED => 8-MAR-2022 09-29-21 TIME PLOTTED => 16:42

NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1175	1710

REGISTERED CIVIL ENGINEER **KIN Y. CHAN** No. 55391
 DATE 9-29-21
 PLANS APPROVAL DATE
 Exp. 12/31/22
 CIVIL
 STATE OF CALIFORNIA

Y&C TRANSPORTATION CONSULTANTS, INC.
 200 Brown Rd, Suite 108
 Fremont, CA 94539

ALAMEDA CTC
 1111 Broadway
 Suite 800
 Oakland, CA 94607

Exist TYPE III-AF SERVICE
 EQUIPMENT ENCLOSURE No. (00293)

Exist CTID No. 0428680R000293

Exist LOAD:
 4-235 W LED Lum
 2-85 W ISL Lum
 2-1200 W RM
 2-200 W Irr
 200 W WIM
 200 W TDC

Exist 2"C, 2#6 (240 V Ltg), 2#8 (240 V SIGN Ltg), 2#14 (120 V SIGN TEST SWITCH), 5#14 (120 V PEU), 2#6 (120 V WIM), 4#4 (120 V RM), 2#10 (120 V TDC), 2#10 (120 V Irr)

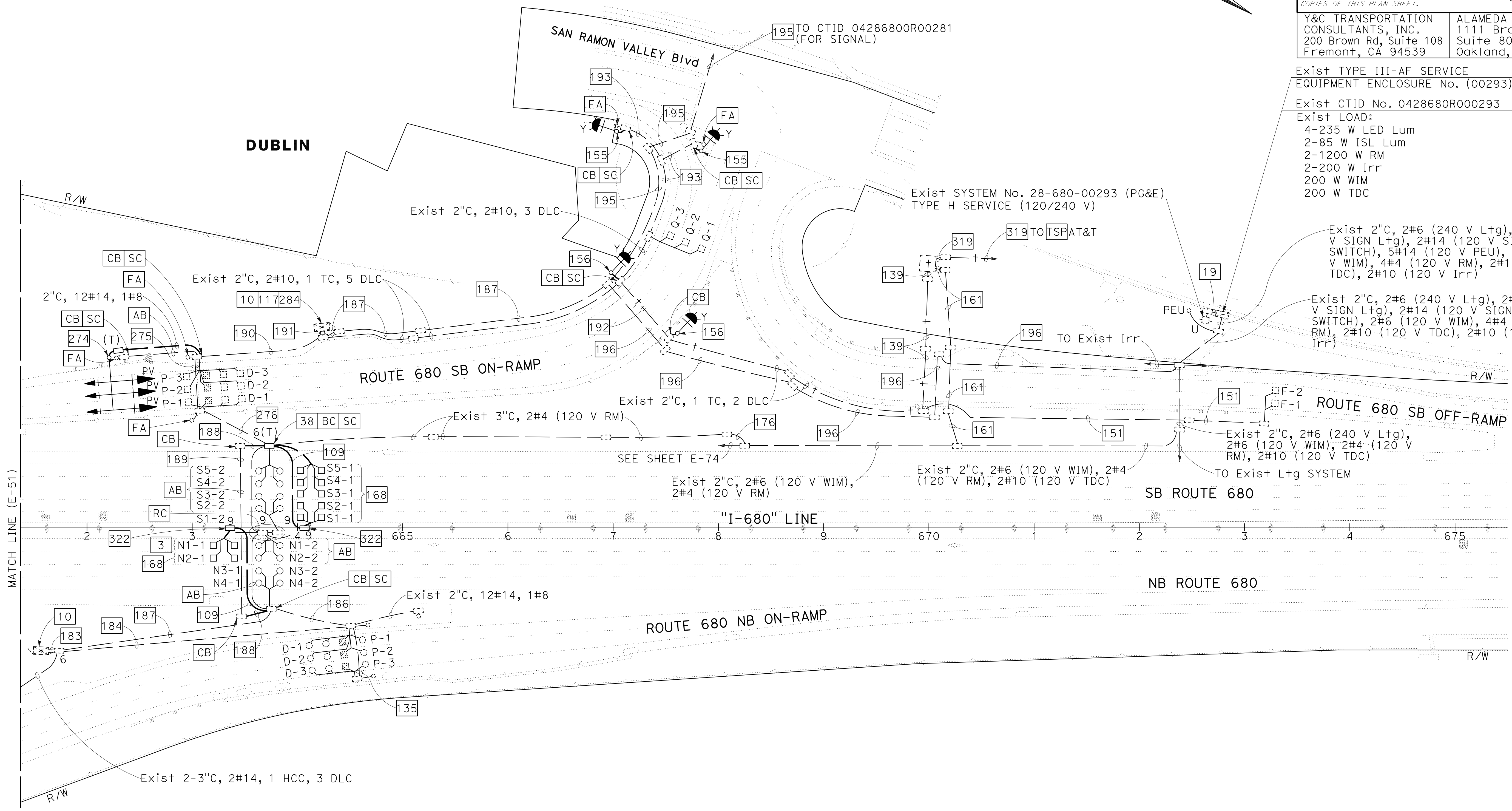
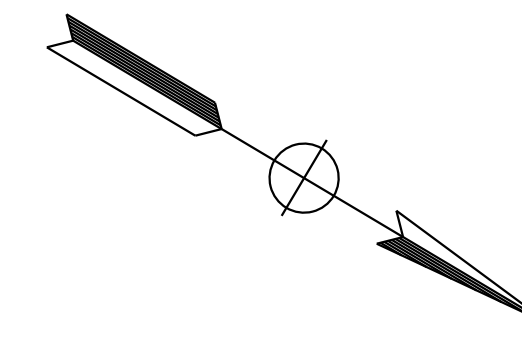
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Exist 2"C, 2#6 (240 V Ltg), 2#6 (120 V WIM), 2#4 (120 V RM), 2#10 (120 V TDC)

Exist 2"C, 2#6 (240 V Ltg), 2#6 (120 V WIM), 2#4 (120 V RM), 2#10 (120 V TDC)

Exist 2"C, 12#14, 1#8

Exist 2-3"C, 2#14, 1 HCC, 3 DLC



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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT - FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 REVISOR
 DATE REVISED
 MY
 DATE
 MENG YANG
 DAN K. YAU
 TIMOTHY J. LEE
 9-29-21

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING RAMP METERING SYSTEMS

SCALE: 1" = 50'

E-52

LAST REVISION DATE PLOTTED => 8-MAR-2022 TIME PLOTTED => 16:42

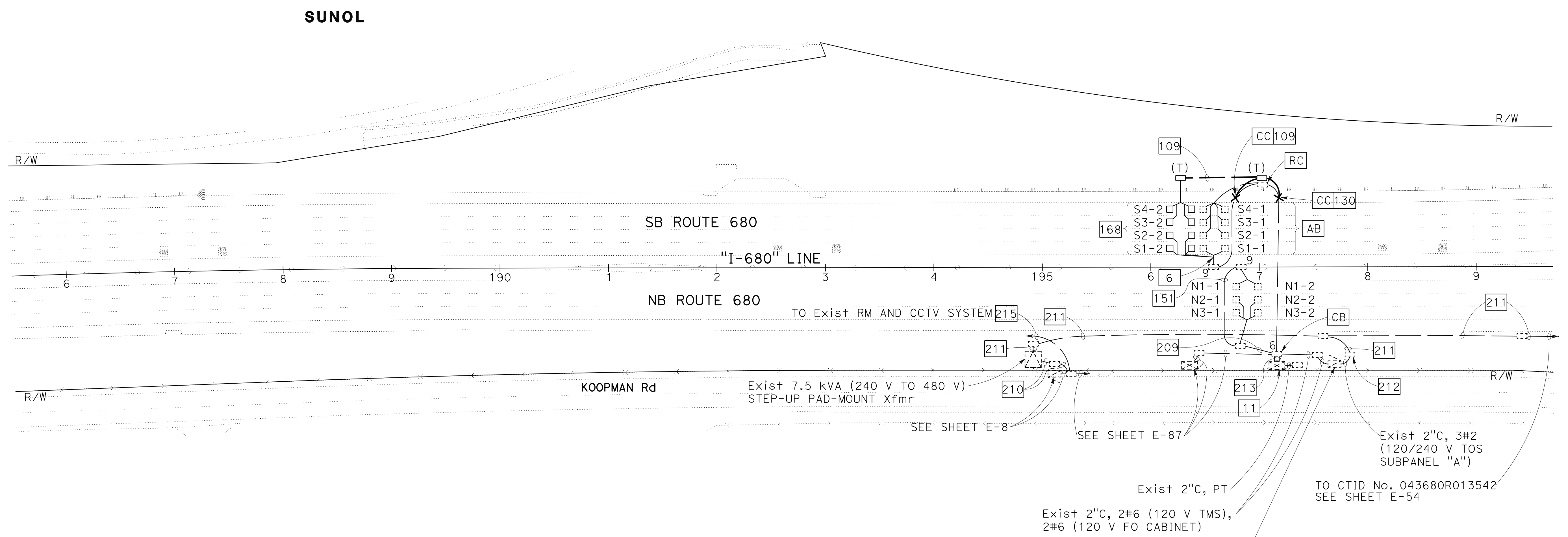
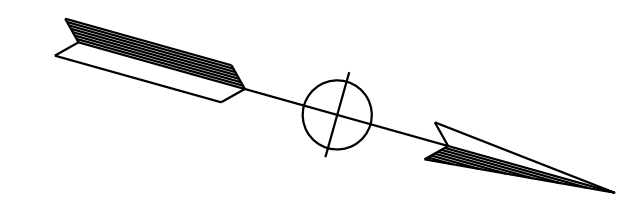
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1176	1710

<i>K. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE

October 8, 2021
PLANS APPROVAL DATE

Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
--	--

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



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT - FUNCTIONAL SUPERVISOR	REVISOR	DATE
Timothy J. Lee	Timothy J. Lee	MY	9-29-21
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CALCULATED/DESIGNED BY	REVISOR	DATE
Timothy J. Lee	Timothy J. Lee	MY	9-29-21
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CHECKED BY	REVISOR	DATE
Timothy J. Lee	Dan K. Yau	MY	9-29-21

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

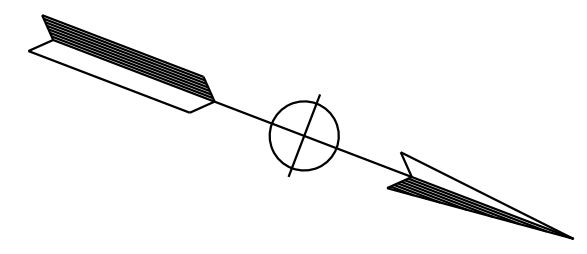
MODIFYING TRAFFIC MONITORING STATION SYSTEMS

SCALE: 1" = 50'

E-53

LAST REVISION DATE PLOTTED => 8-MAR-2022 09-29-21 TIME PLOTTED => 16:42

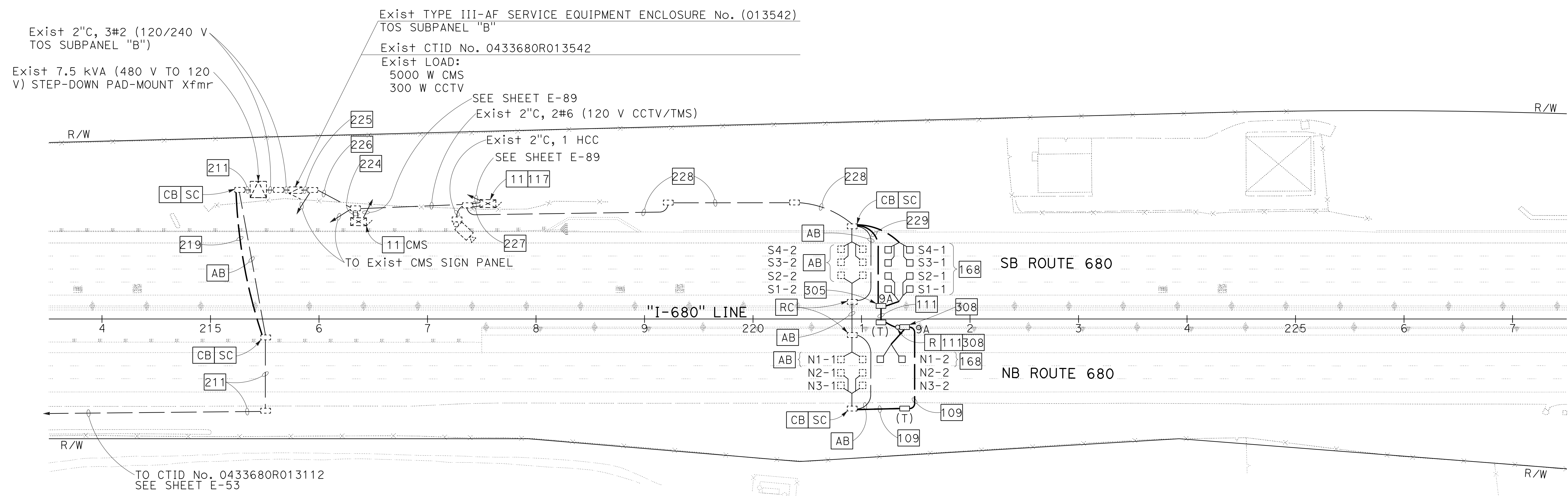
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1177	1710
			REGISTERED CIVIL ENGINEER	DATE	
			KIN Y. CHAN	9-29-21	
			No. 55391		
			Exp. 12/31/22		
			CIVIL		
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NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CALCULATED/DESIGNED BY	CHECKED BY
TIMOTHY J. LEE	
CONSULTANT FUNCTIONAL SUPERVISOR	
DEPARTMENT OF TRANSPORTATION	

SUNOL



MODIFYING TRAFFIC MONITORING STATION SYSTEMS

SCALE: 1" = 50'

E-54

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

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LAST REVISION DATE PLOTTED => 8-MAR-2022 09-29-21 TIME PLOTTED => 16:42

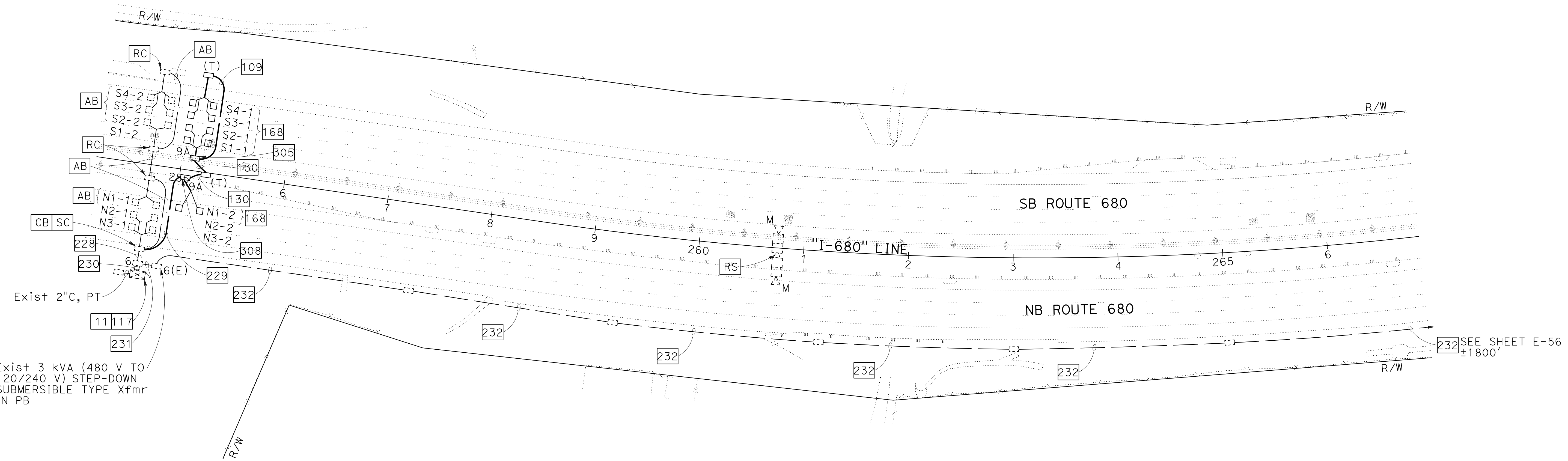
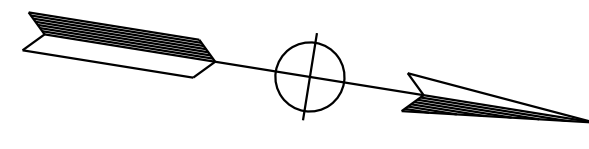
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1178	1710

<i>K. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE

October 8, 2021
PLANS APPROVAL DATE

Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
---	--

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



MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CALCULATED-DESIGNED BY	CHECKED BY
TIMOTHY J. LEE	
CONSULTANT FUNCTIONAL SUPERVISOR	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

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MODIFYING TRAFFIC MONITORING STATION SYSTEMS

SCALE: 1" = 50'

E-55

0:\0030\DRAWING\FINAL_P58E\0420000235\0055.dgn



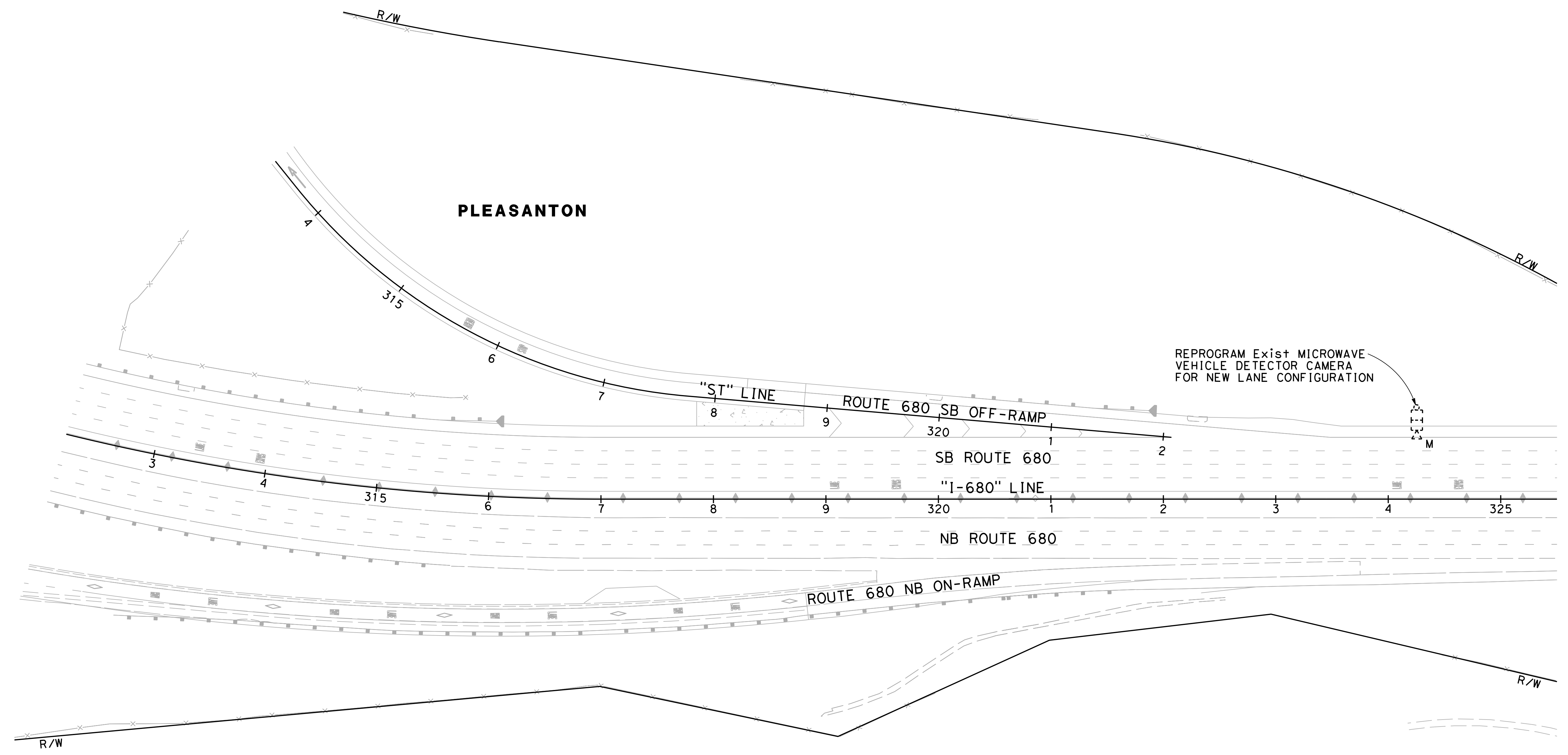
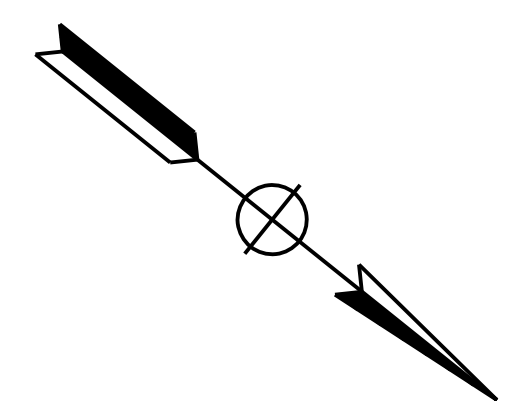
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1180	1710

<i>K. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE
October 8, 2021	
PLANS APPROVAL DATE	

Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
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NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



O:\Project\2020\116820_680_GAP\0420000235\04057.dgn
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT FUNCTIONAL SUPERVISOR: TIMOTHY J. LEE
 CALCULATED/DESIGNED BY: MING YANG
 CHECKED BY: DAN K. YAU
 REVISED BY: MY
 DATE REVISED: 9-29-21
 USERNAME => myong
 DGN FILE => 0420000235\04057



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

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MODIFYING TRAFFIC MONITORING STATION SYSTEMS

SCALE: 1" = 50'

E-57

LAST REVISION: 09-29-21
 DATE PLOTTED => 2/11/2022
 TIME PLOTTED => 11:19:47 AM

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

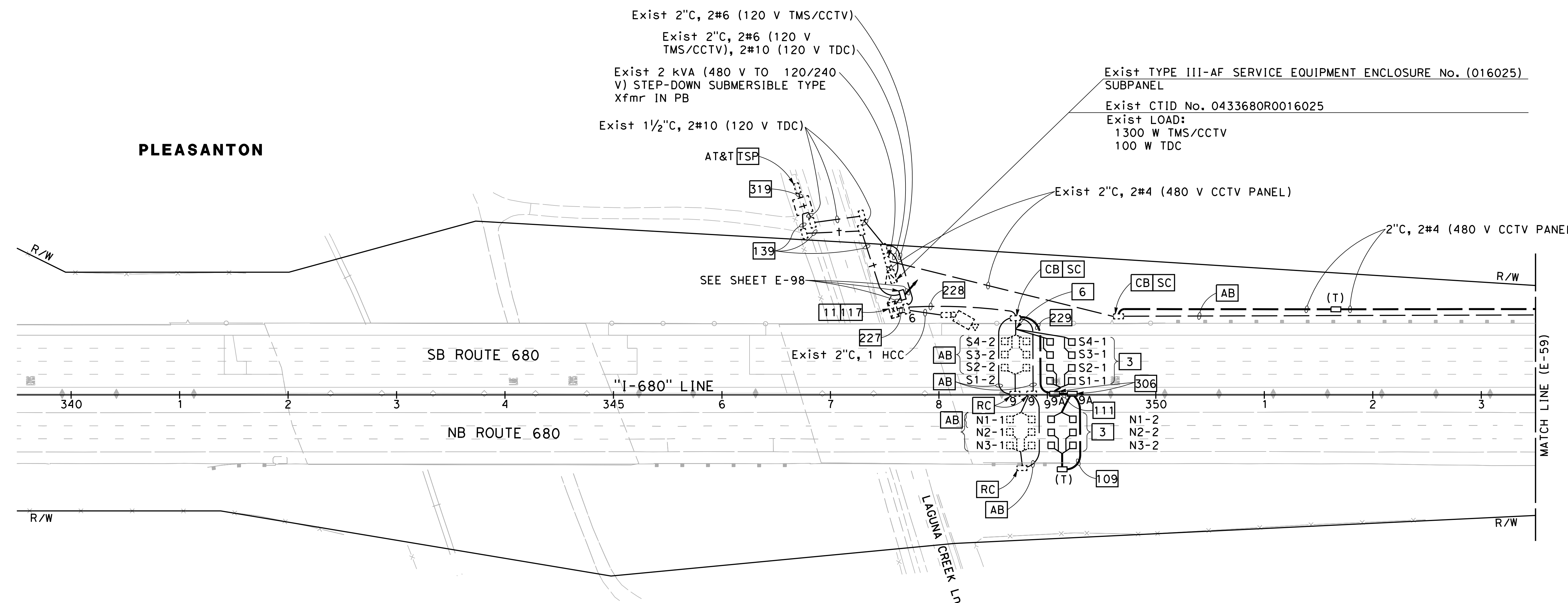
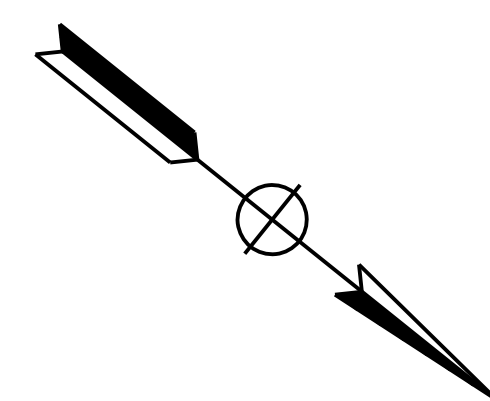
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1181	1710

REGISTERED CIVIL ENGINEER *Kin Y. Chan* DATE 9-29-21
 October 8, 2021
 PLANS APPROVAL DATE

KIN Y. CHAN
 No. 55391
 Exp. 12/31/22
 CIVIL
 STATE OF CALIFORNIA

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT FUNCTIONAL SUPERVISOR
 CALCULATED-DESIGNED BY
 CHECKED BY
 MENG YANG
 DAN K. YAU
 MY
 9-29-21
 REVISED BY
 DATE REVISED
 TIMOTHY J. LEE

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

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MODIFYING TRAFFIC MONITORING STATION SYSTEMS

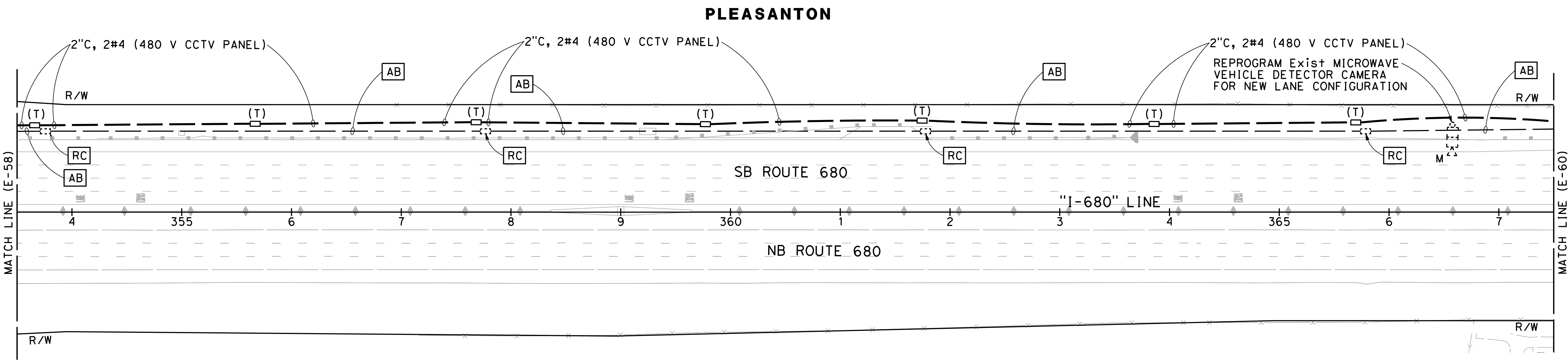
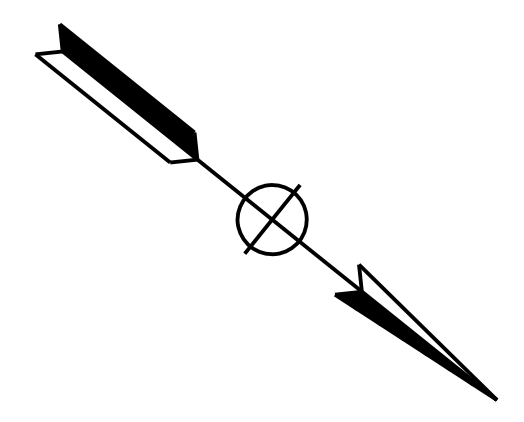
SCALE: 1" = 50'

E-58

LAST REVISION DATE PLOTTED => 2/11/2022
 09-29-21 TIME PLOTTED => 11:19:48 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1182	1710
			9-29-21		
REGISTERED CIVIL ENGINEER			DATE		
October 8, 2021			PLANS APPROVAL DATE		
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		

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



MODIFYING TRAFFIC MONITORING STATION SYSTEMS

SCALE: 1" = 50'

E-59

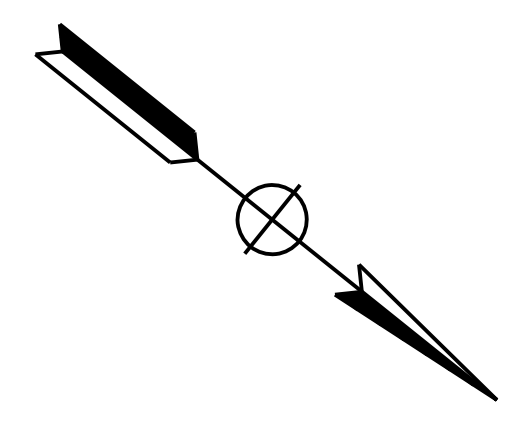
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

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O:\Project\2020\116820_680 GAP\0420000235\04059.dgn
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 MING YANG
 DAN K. YAU
 TIMOTHY J. LEE
 Y&C TRANSPORTATION CONSULTANTS, INC.

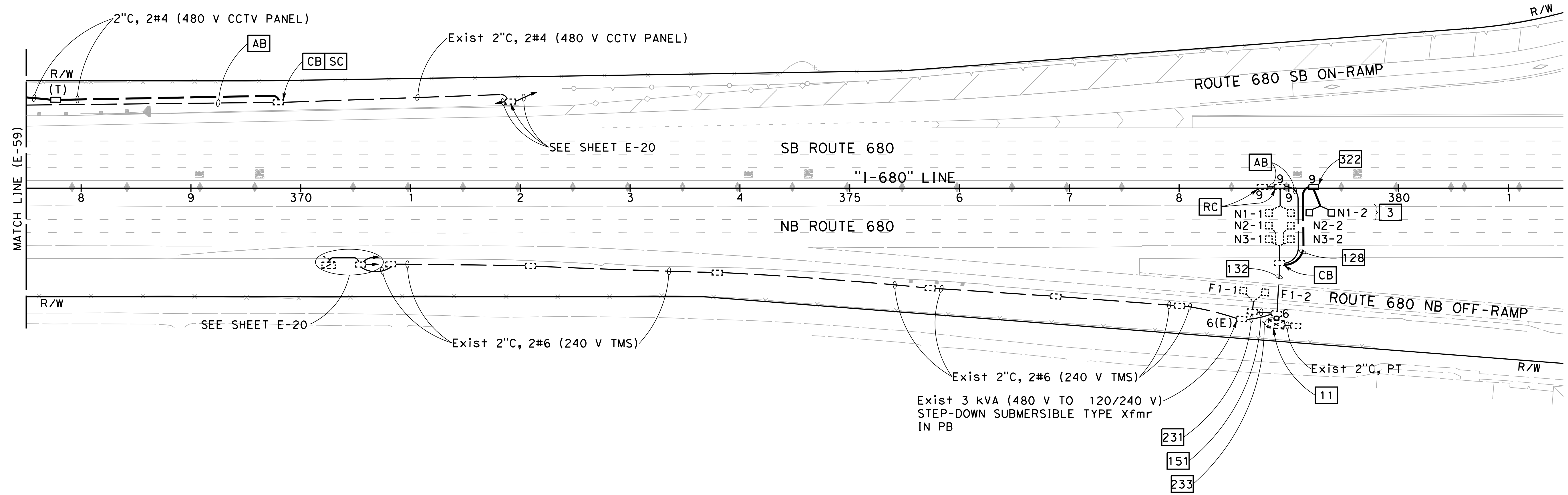
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1183	1710
			9-29-21		
REGISTERED CIVIL ENGINEER			DATE		
October 8, 2021			PLANS APPROVAL DATE		
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		

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



MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CALCULATED-DRAWN BY	CHECKED BY
TIMOTHY J. LEE	
CONSULTANT FUNCTIONAL SUPERVISOR	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	

PLEASANTON



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

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**MODIFYING TRAFFIC MONITORING
STATION SYSTEMS**

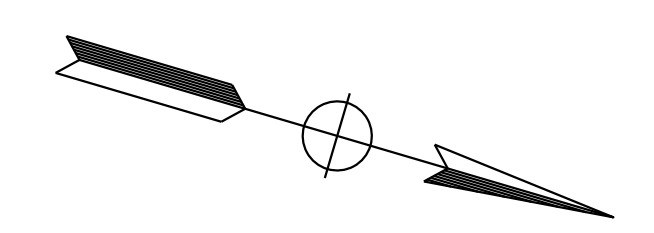
SCALE: 1" = 50'

E-60

LAST REVISION DATE PLOTTED => 2/11/2022 09-29-21 TIME PLOTTED => 11:19:53 AM

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT: FUNCTIONAL SUPERVISOR: TIMOTHY J. LEE
 CALCULATED/DESIGNED BY: MING YANG
 CHECKED BY: DAN K. YAU
 REVISED BY: MY
 DATE REVISED: 9-29-21

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



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1185	1710

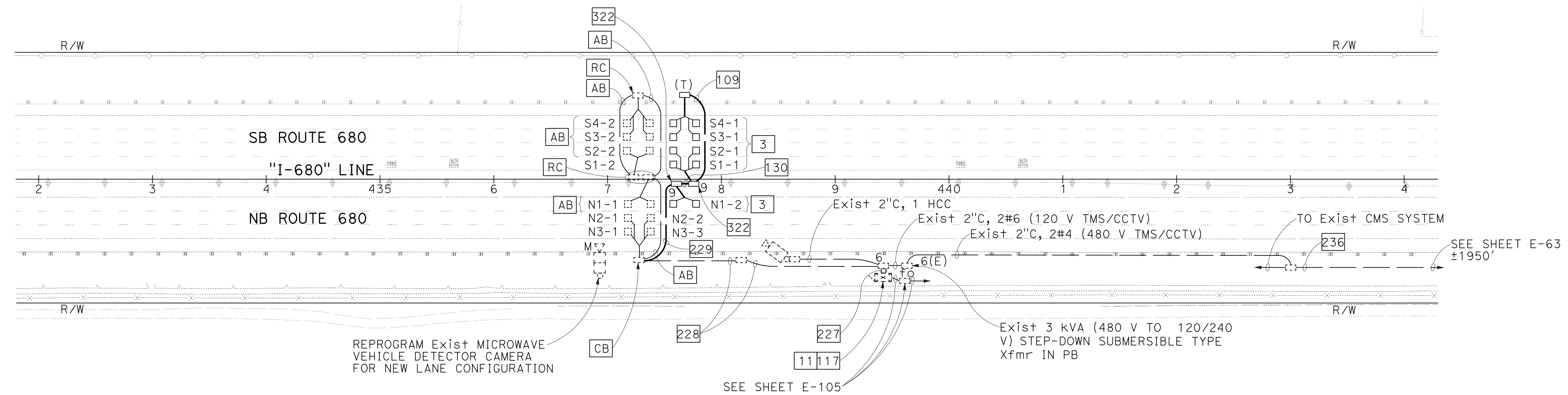
REGISTERED CIVIL ENGINEER: *Kin Y. Chan* DATE: 9-29-21
 October 8, 2021
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KIN Y. CHAN
 No. 55391
 Exp. 12/31/22
 CIVIL
 STATE OF CALIFORNIA

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MODIFYING TRAFFIC MONITORING STATION SYSTEMS

SCALE: 1" = 50'

E-62

LAST REVISION: DATE PLOTTED => 8-MAR-2022
 09-29-21 TIME PLOTTED => 16:45

NOTE:

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RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Exist SYSTEM No. 33-680-001840 (PG&E)
UNDERGROUND SERVICE (120/240 V)

Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (001840)

Exist CTID No. 04336800001840

Exist LOAD:

- 1000 W TMS
- 100 W TDC
- 500 W FO LINK CABINET
- 5000 W CMS (SUBPANEL)
- 2-300 W CCTV/TMS (SUBPANEL)

Exist 2"C, 2#2 (480 V TOS)

Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE (SUBPANEL)

MUIRWOOD Dr
SEE SHEET E-27

Exist 2"C, 2#2 (240 V TOS),
2#8 (120 V FO LINK CABINET),
2#8 (120 V TDC)
Exist 2"C, 2#2 (240 V TOS)
SEE SHEET E-107

Exist 15 kVA (240 V TO 480 V)
STEP-UP PAD-MOUNT Xfmr

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1186	1710

REGISTERED CIVIL ENGINEER
KIN Y. CHAN
No. 55391
Exp. 12/31/22
CIVIL

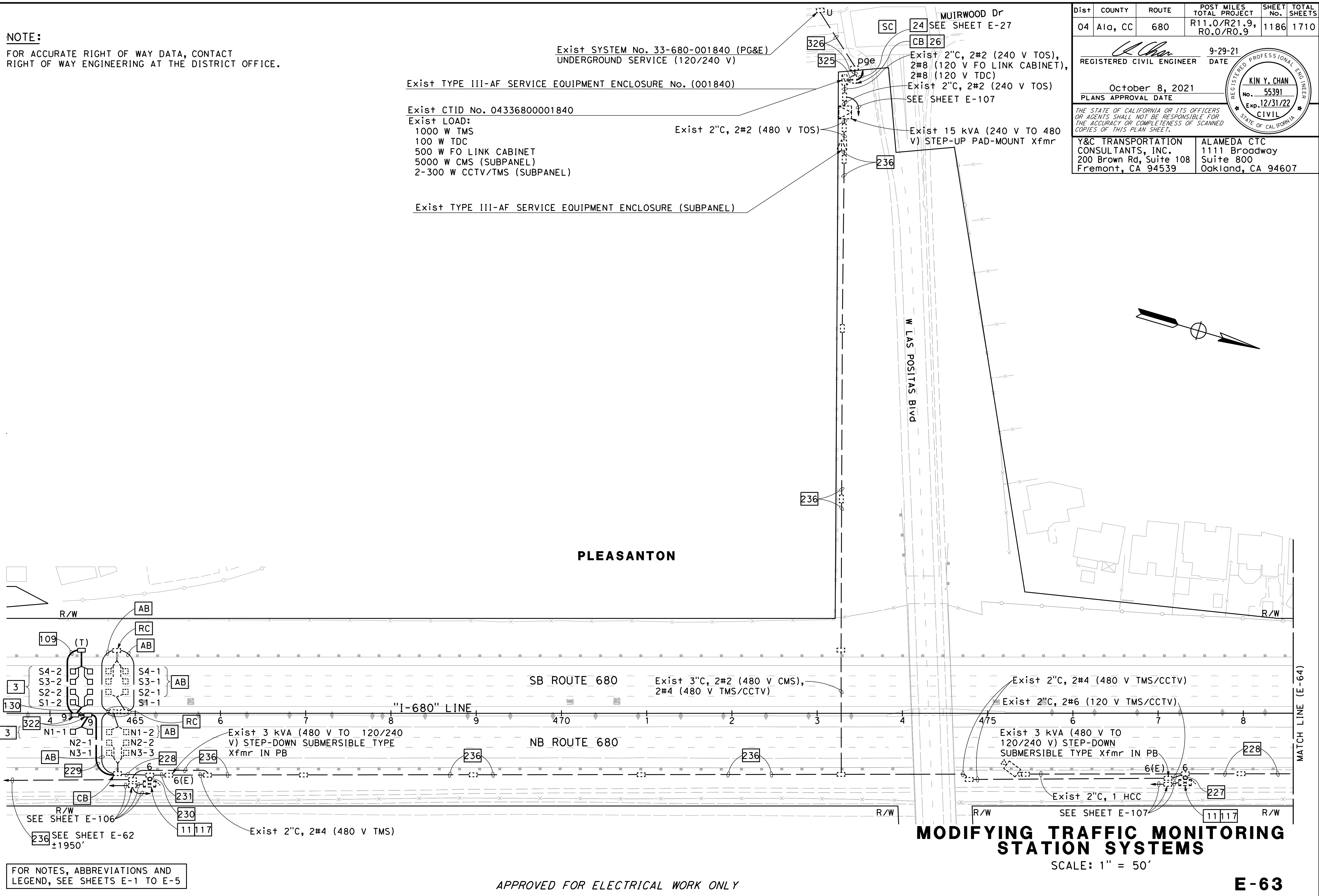
October 8, 2021
PLANS APPROVAL DATE

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Y&C TRANSPORTATION CONSULTANTS, INC.
200 Brown Rd, Suite 108
Fremont, CA 94539

ALAMEDA CTC
1111 Broadway
Suite 800
Oakland, CA 94607

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT FUNCTIONAL SUPERVISOR: TIMOTHY J. LEE
 CALCULATED/DESIGNED BY: MING YANG
 CHECKED BY: DAN K. YAU
 REVISED BY: MY
 DATE REVISED: 9-29-21
 USERNAME => myong
 DGN FILE => 0420000235ud063



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING TRAFFIC MONITORING STATION SYSTEMS

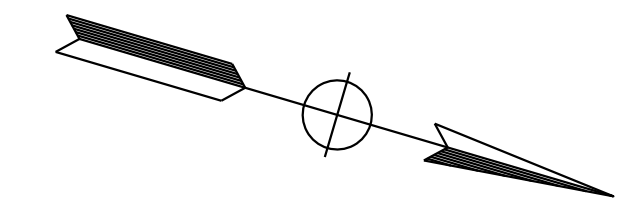
SCALE: 1" = 50'

E-63

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1187	1710

<i>Kin Y. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE
October 8, 2021	
PLANS APPROVAL DATE	

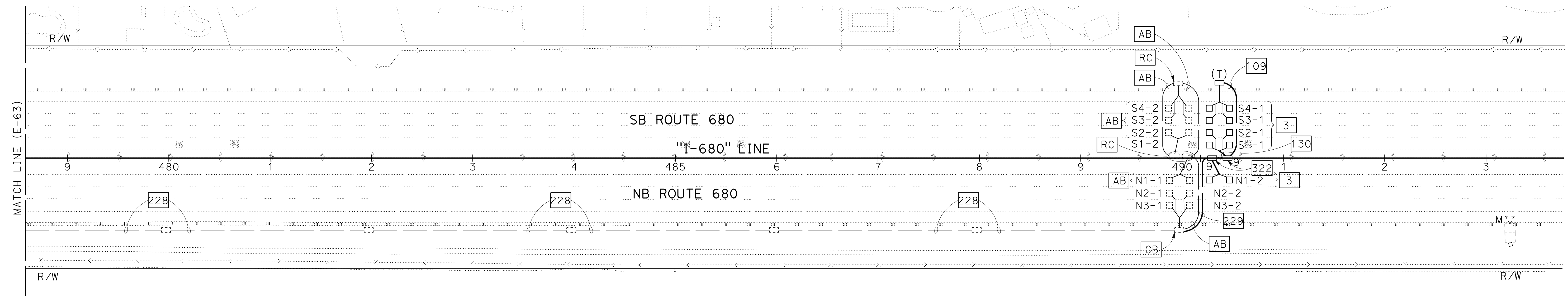
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
---	--



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

MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CALCULATED- DESIGNED BY	CHECKED BY
TIMOTHY J. LEE	

PLEASANTON



**MODIFYING TRAFFIC MONITORING
STATION SYSTEMS**

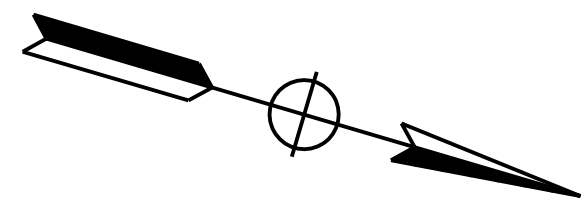
SCALE: 1" = 50'

E-64

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

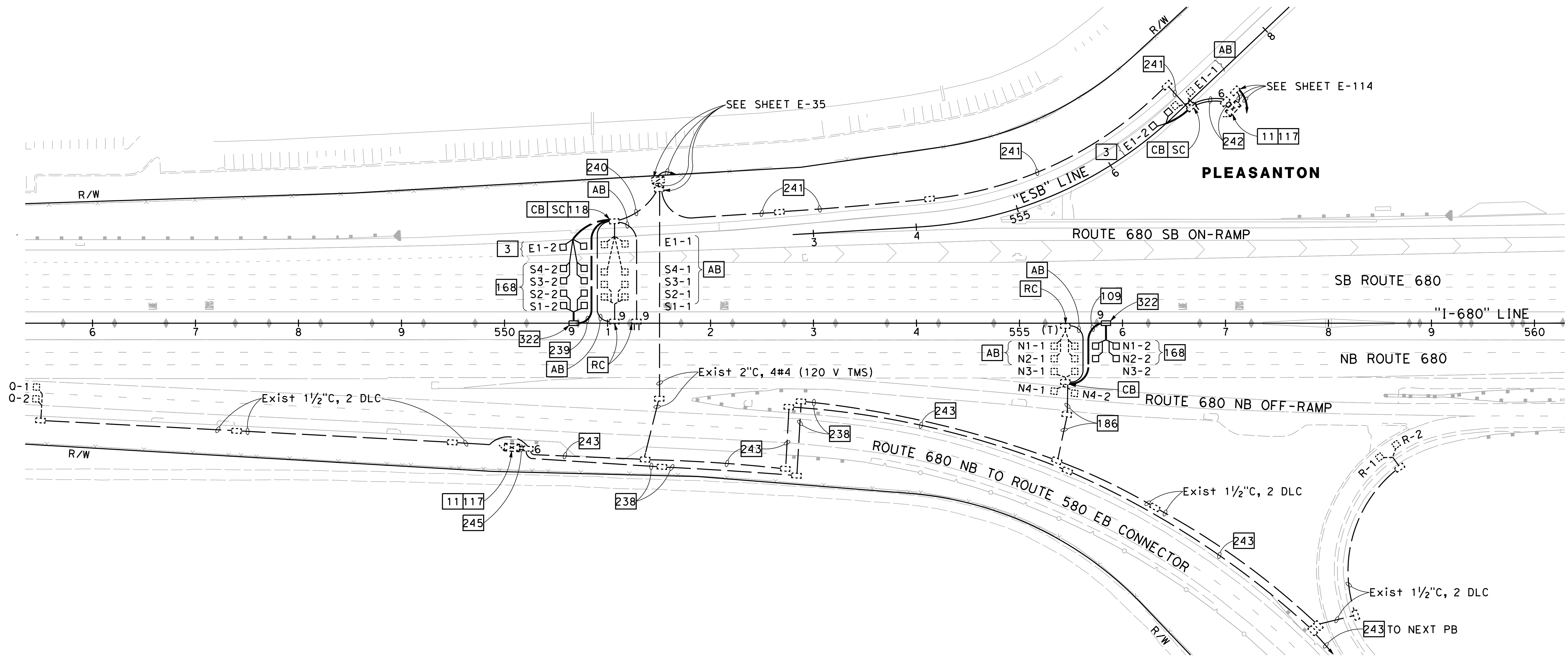
APPROVED FOR ELECTRICAL WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1188	1710
			REGISTERED CIVIL ENGINEER	DATE	
			KIN Y. CHAN	9-29-21	
			No. 55391		
			Exp. 12/31/22		
			CIVIL		
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NOTE:
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MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CALCULATED-DRAWN BY	CHECKED BY
TIMOTHY J. LEE	
CONSULTANT FUNCTIONAL SUPERVISOR	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	



MODIFYING TRAFFIC MONITORING STATION SYSTEMS

SCALE: 1" = 50'

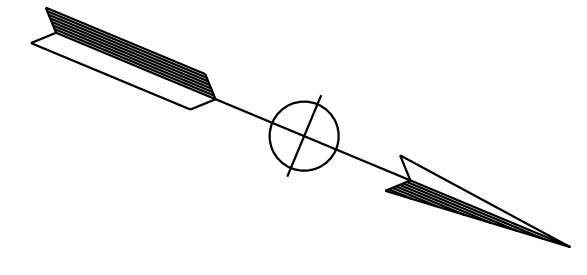
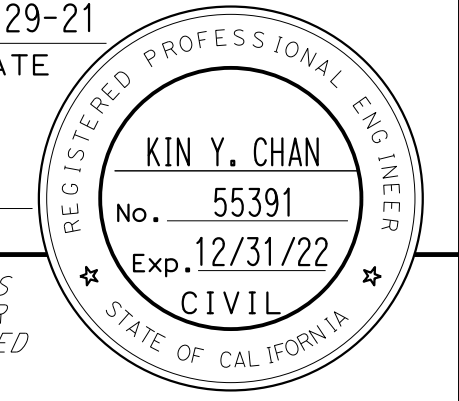
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

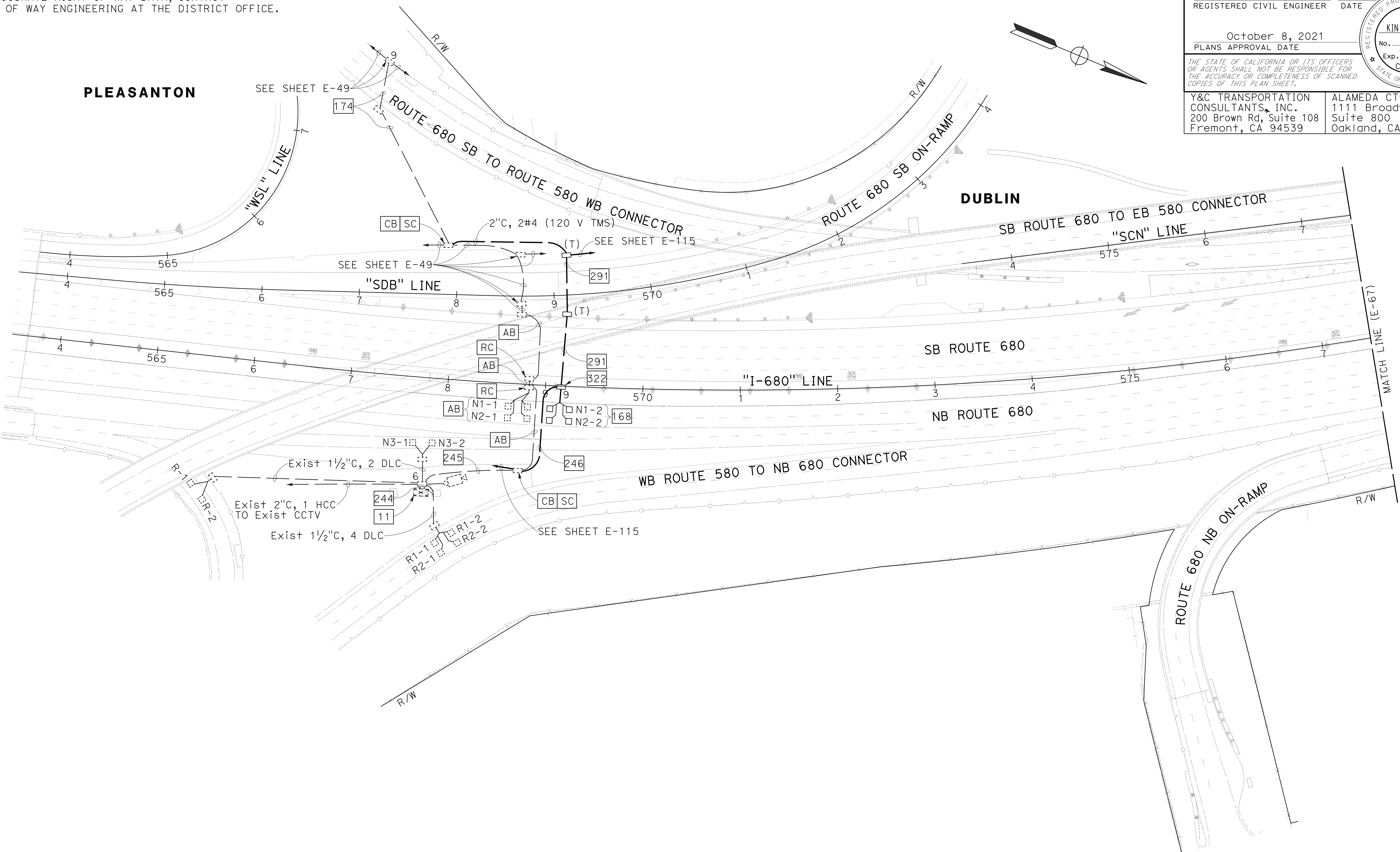
E-65

LAST REVISION DATE PLOTTED => 2/11/2022 09-29-21 TIME PLOTTED => 11:20:02 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1189	1710
			9-29-21		
REGISTERED CIVIL ENGINEER			DATE		
			October 8, 2021		
			PLANS APPROVAL DATE		
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NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



MY	9-29-21				
REVISOR	DATE	REVISION	BY	DATE	
MENG YANG	DAN K. YAU				
CALCULATED/DESIGNED BY	CHECKED BY				
TIMOTHY J. LEE					

MODIFYING TRAFFIC MONITORING STATION SYSTEMS

SCALE: 1" = 50'

E-66

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

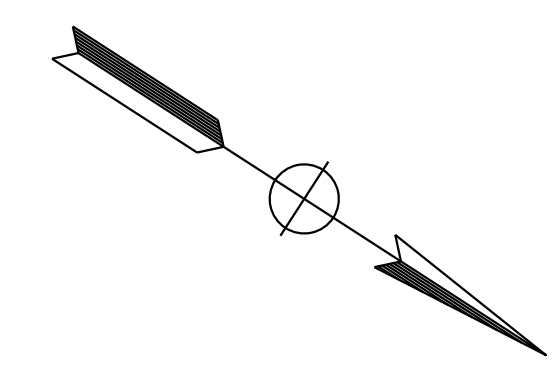
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION: 09-29-21 DATE PLOTTED => 8-MAR-2022 TIME PLOTTED => 16:44

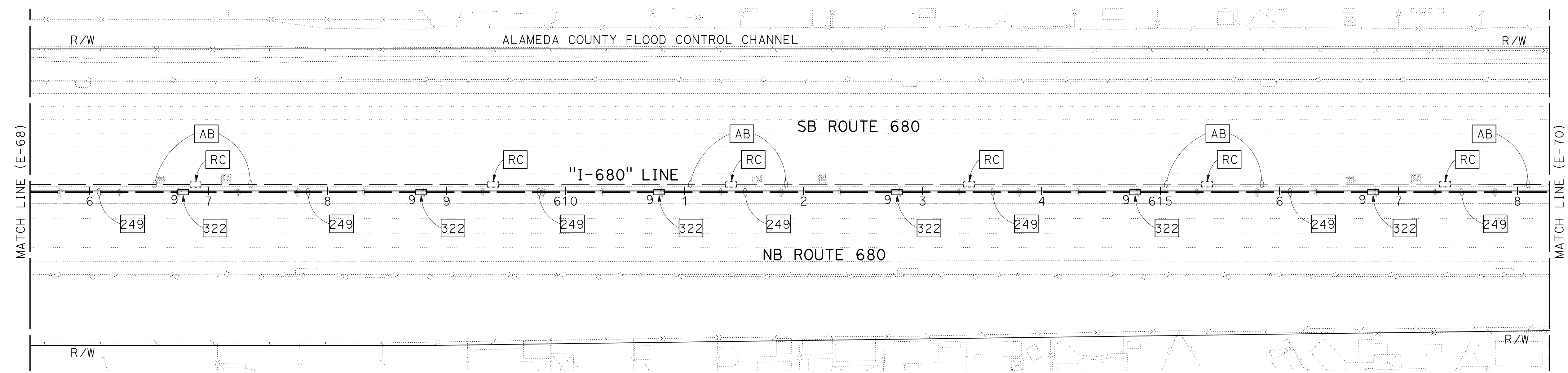
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04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1192	1710
			9-29-21		
REGISTERED CIVIL ENGINEER			DATE		
			October 8, 2021		
			PLANS APPROVAL DATE		
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		



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

MY	REVISOR	DATE
9-29-21	9-29-21	9-29-21
MENG YANG	DAN K. YAU	
CALCULATED- DESIGNED BY	CHECKED BY	
TIMOTHY J. LEE		
CONSULTANT- FUNCTIONAL SUPERVISOR		
DEPARTMENT OF TRANSPORTATION		

DUBLIN



**MODIFYING TRAFFIC MONITORING
STATION SYSTEMS**

SCALE: 1" = 50'

E-69

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

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LAST REVISION DATE PLOTTED => 8-MAR-2022 09-29-21 TIME PLOTTED => 16:44

NOTE:

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

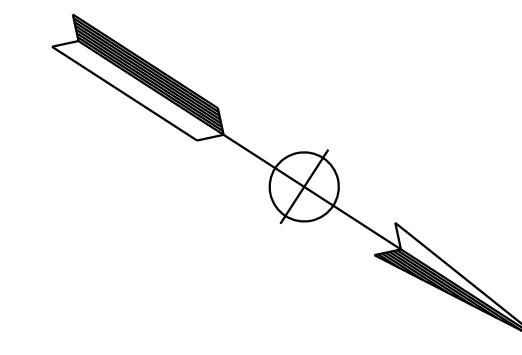
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1193	1710

 9-29-21
 REGISTERED CIVIL ENGINEER DATE

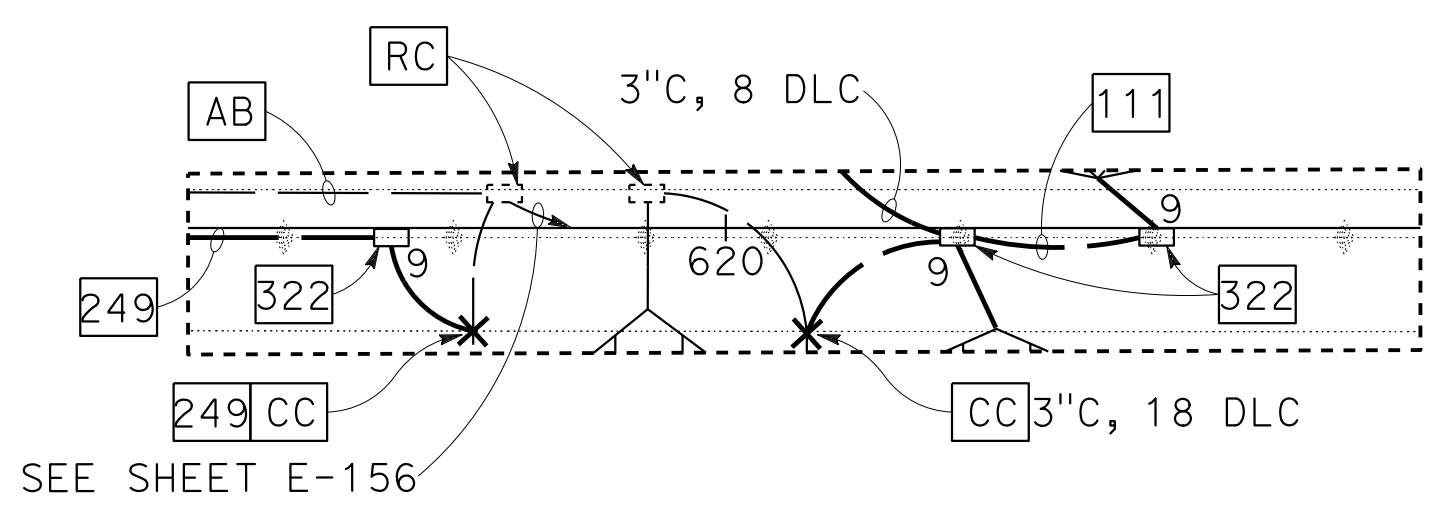
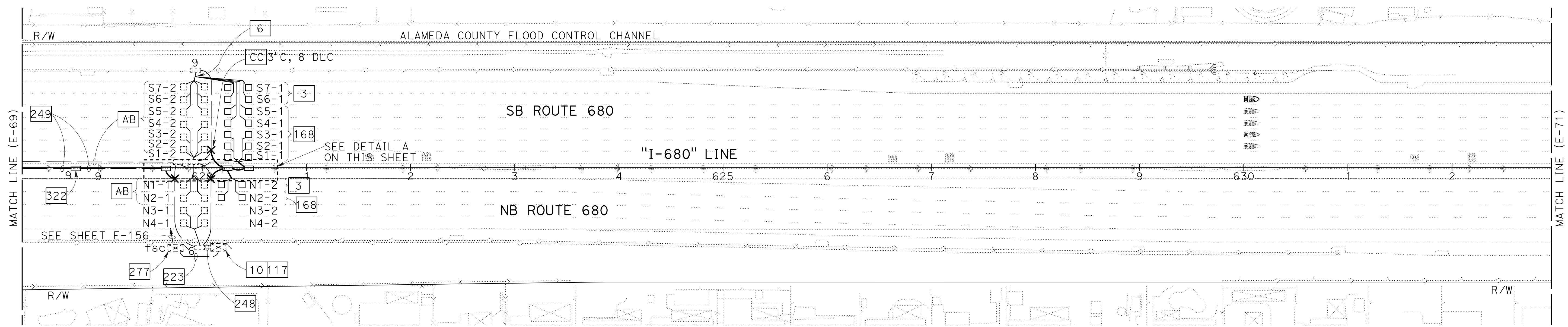
October 8, 2021
 PLANS APPROVAL DATE

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DUBLIN



DETAIL A
SCALE: 1" = 20'

**MODIFYING TRAFFIC MONITORING
STATION SYSTEMS**

SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

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E-70


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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT: FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 MING YANG
 DAN K. YAU
 MY
 9-29-21
 REVISOR
 DATE
 SUPERVISOR
 TIMOTHY J. LEE
 TRANSPORTATION
 SUPERVISOR



NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1194	1710

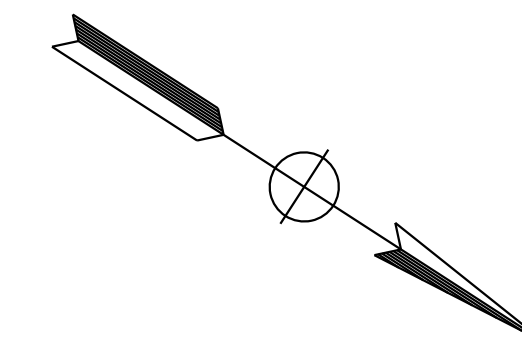
 9-29-21
 REGISTERED CIVIL ENGINEER DATE

October 8, 2021
 PLANS APPROVAL DATE

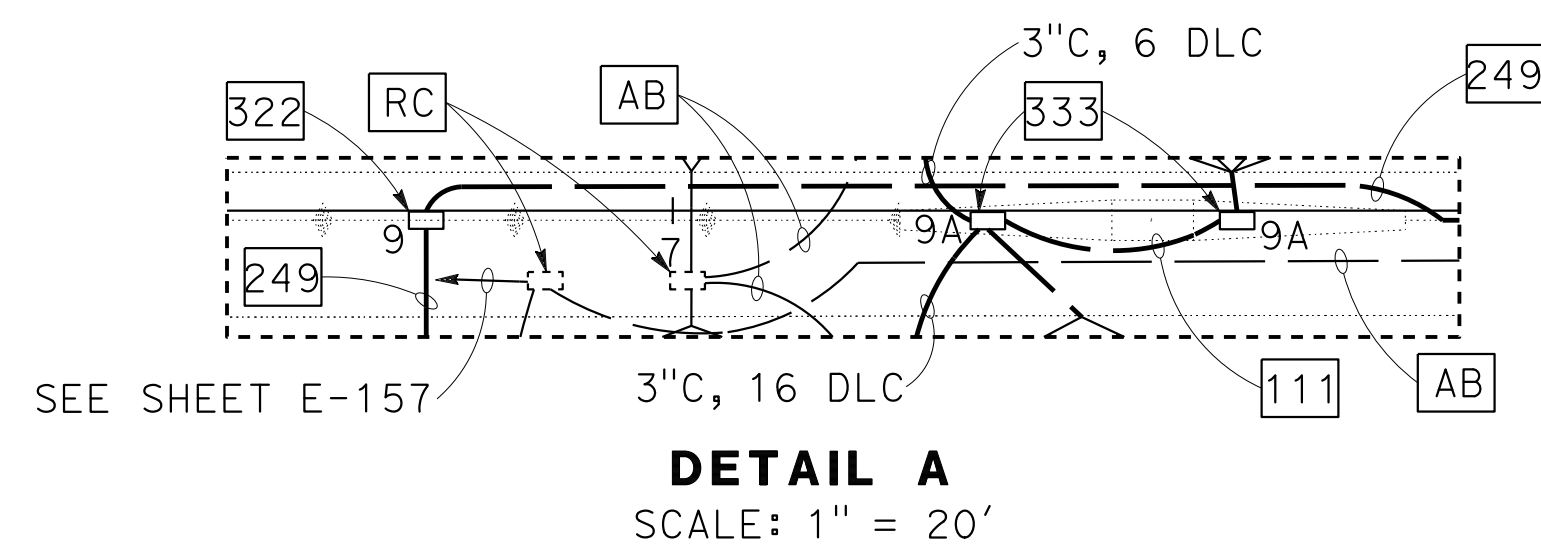
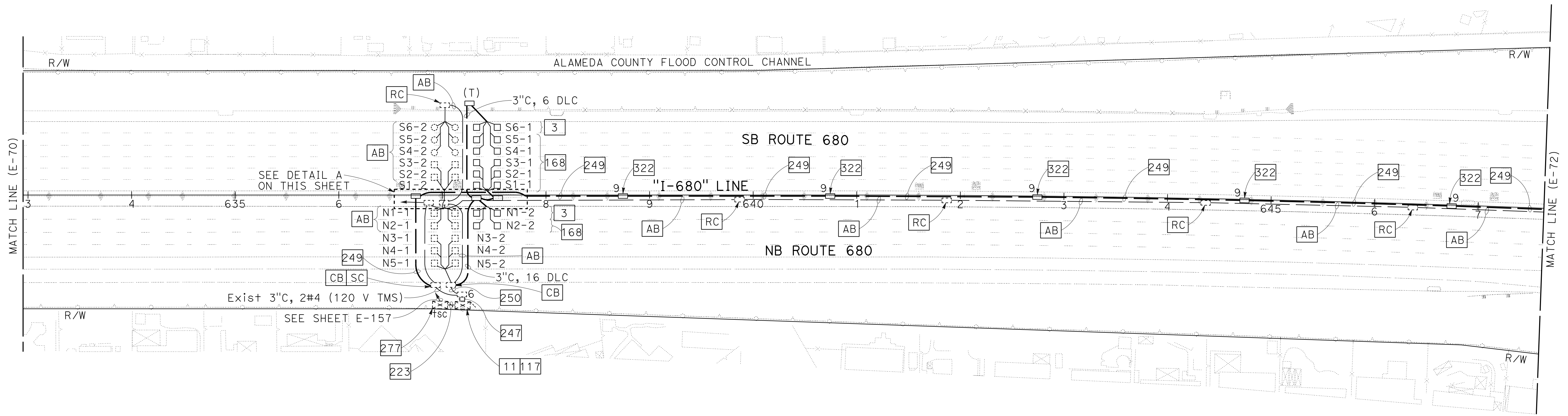
THE STATE OF CALIFORNIA OR ITS OFFICERS
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF SCANNED
 COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
 200 Brown Rd, Suite 108
 Fremont, CA 94539

ALAMEDA CTC
 1111 Broadway
 Suite 800
 Oakland, CA 94607



DUBLIN



**MODIFYING TRAFFIC MONITORING
STATION SYSTEMS**

SCALE: 1" = 50'

E-71

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans
 CONSULTANT SUPERVISOR: TIMOTHY J. LEE
 CALCULATED/DESIGNED BY: MING YANG
 CHECKED BY: DAN K. YAU
 REVISED BY: MY
 DATE REVISED: 9-29-21

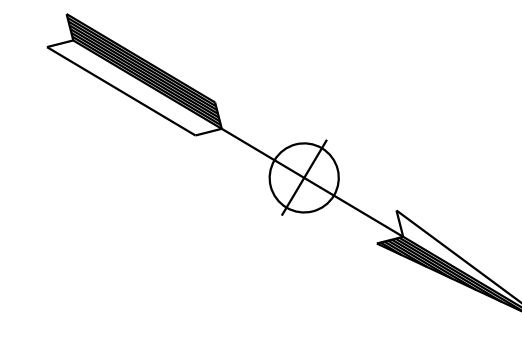
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1195	1710

<i>Kin Y. Chan</i> REGISTERED CIVIL ENGINEER	9-29-21 DATE
October 8, 2021 PLANS APPROVAL DATE	

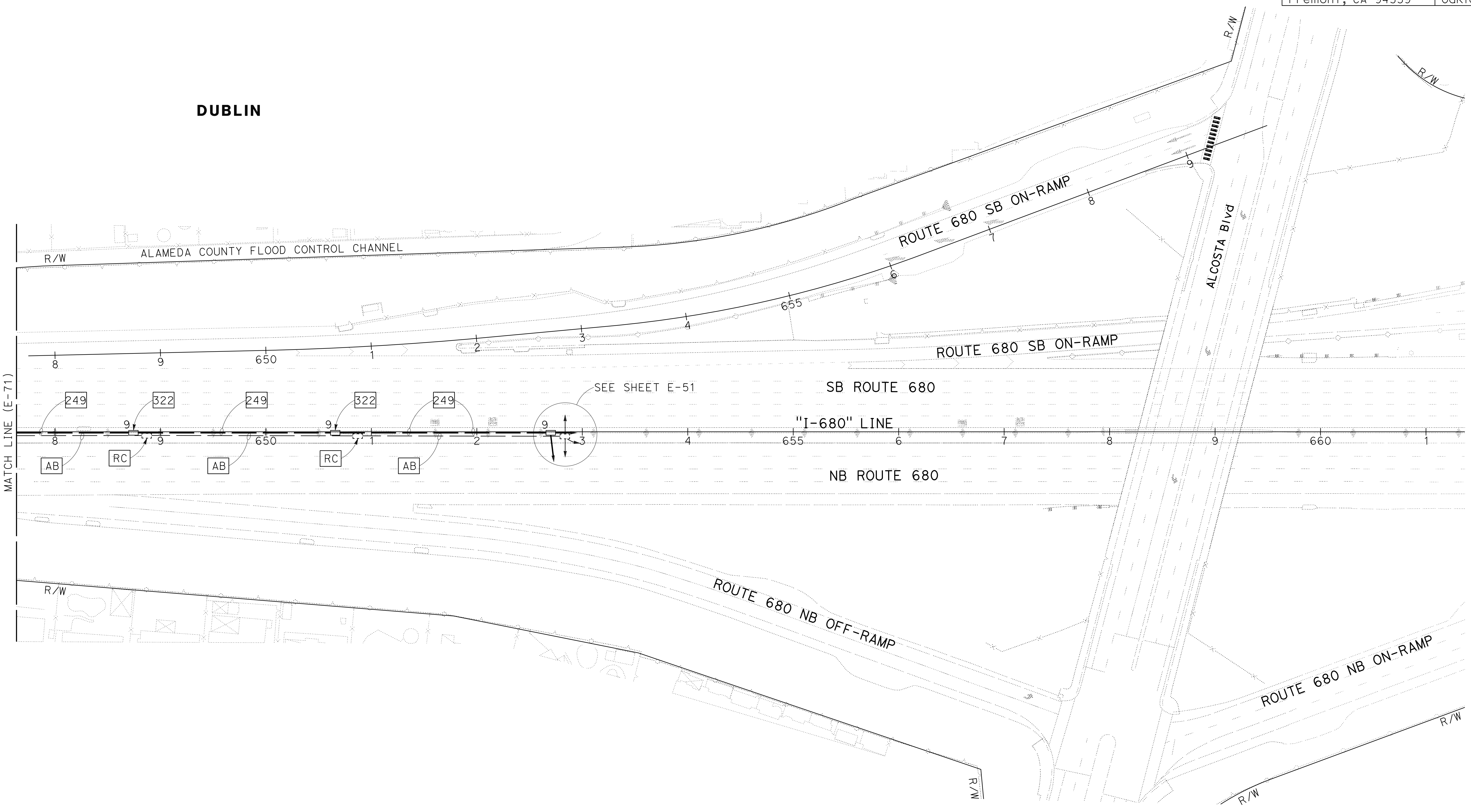
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
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NOTE:

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



MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CALCULATED-DESIGNED BY	CHECKED BY
TIMOTHY J. LEE	
CONSULTANT	FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	



**MODIFYING TRAFFIC MONITORING
STATION SYSTEMS**

SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

E-72

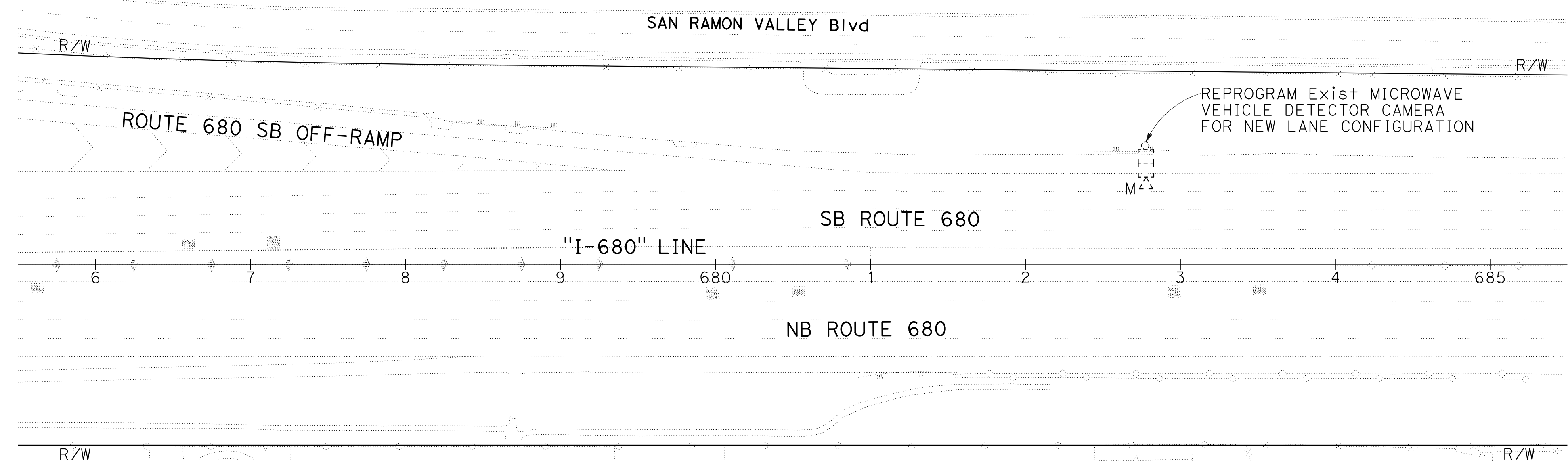
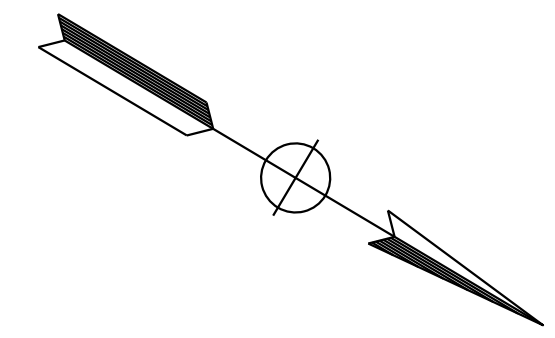
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1196	1710

<i>K. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE

October 8, 2021
PLANS APPROVAL DATE

Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
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NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



REPROGRAM Exist MICROWAVE
VEHICLE DETECTOR CAMERA
FOR NEW LANE CONFIGURATION

DUBLIN

**MODIFYING TRAFFIC MONITORING
STATION SYSTEMS**

SCALE: 1" = 50'

E-73

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

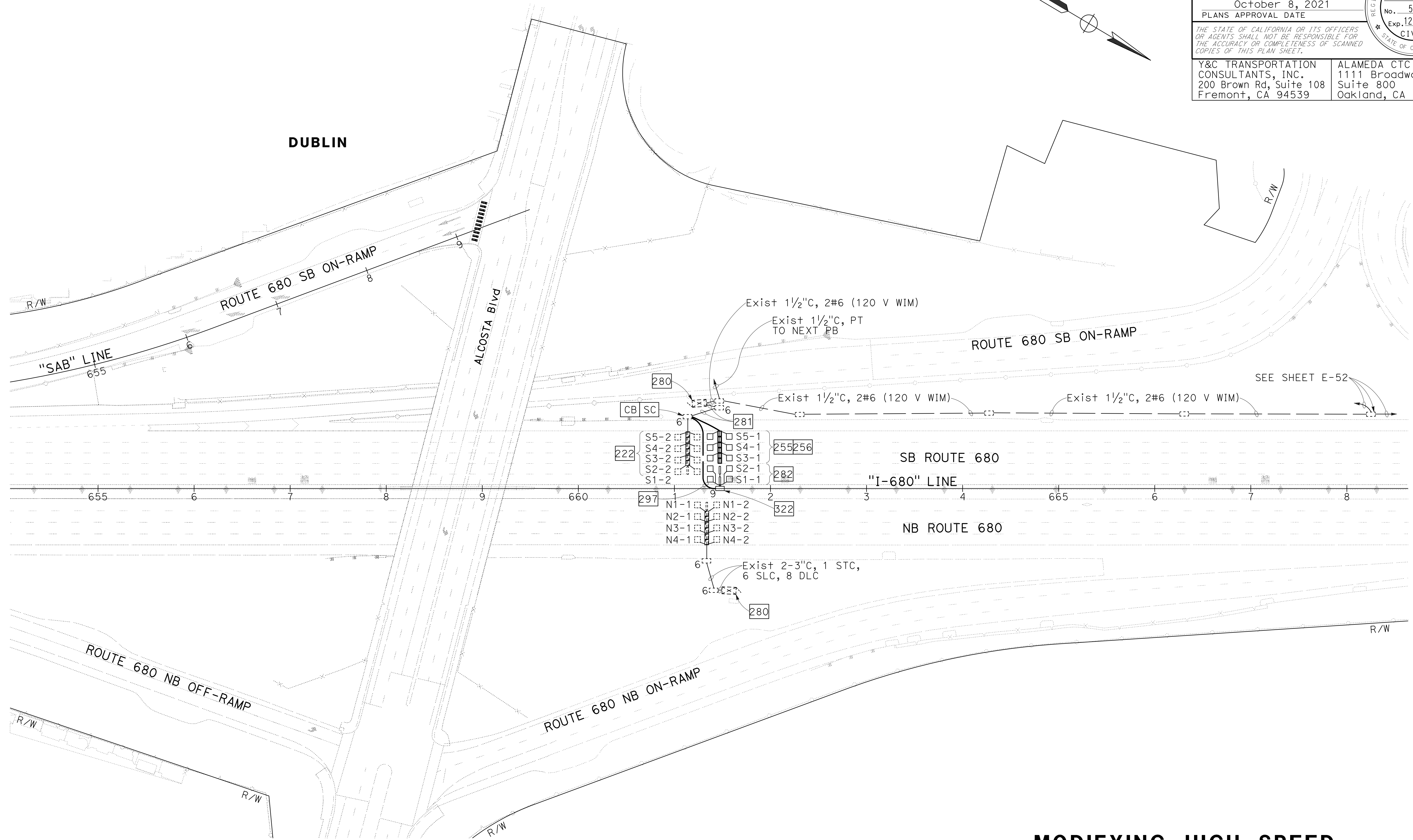
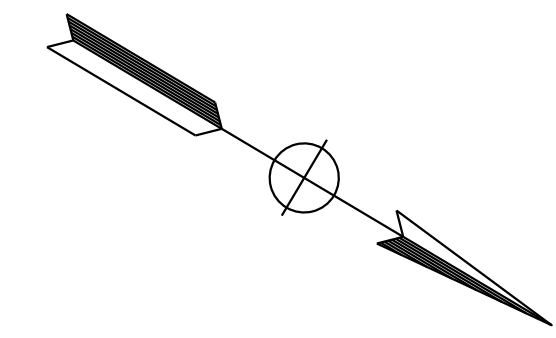
APPROVED FOR ELECTRICAL WORK ONLY



MY	REVISOR	DATE
9-29-21	DAN K. YAU	
	CHECKED BY	
	TIMOTHY J. LEE	
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	TIMOTHY J. LEE	
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, RO.0/RO.9	1197	1710
			9-29-21		
REGISTERED CIVIL ENGINEER			DATE		
October 8, 2021			PLANS APPROVAL DATE		
Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539			ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607		

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



MY	9-29-21	REVISOR	DATE
MENG YANG	DAN K. YAU	CHECKED BY	TIMOTHY J. LEE
DESIGNED BY	CHECKED BY	FUNCTIONAL SUPERVISOR	CONSULTANT
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Y&C TRANSPORTATION CONSULTANTS, INC.		

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING HIGH SPEED WEIGH-IN-MOTION SYSTEM

SCALE: 1" = 50'


E-74

LAST REVISION | DATE PLOTTED => 8-MAR-2022 | TIME PLOTTED => 16:44

NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1198	1710

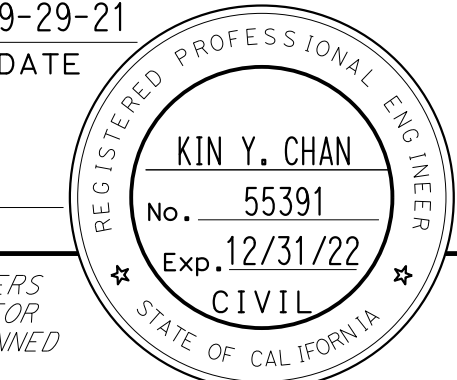
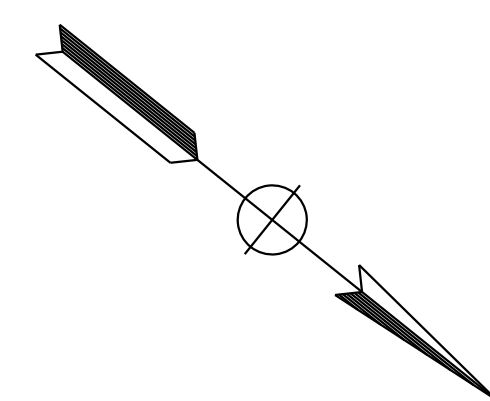
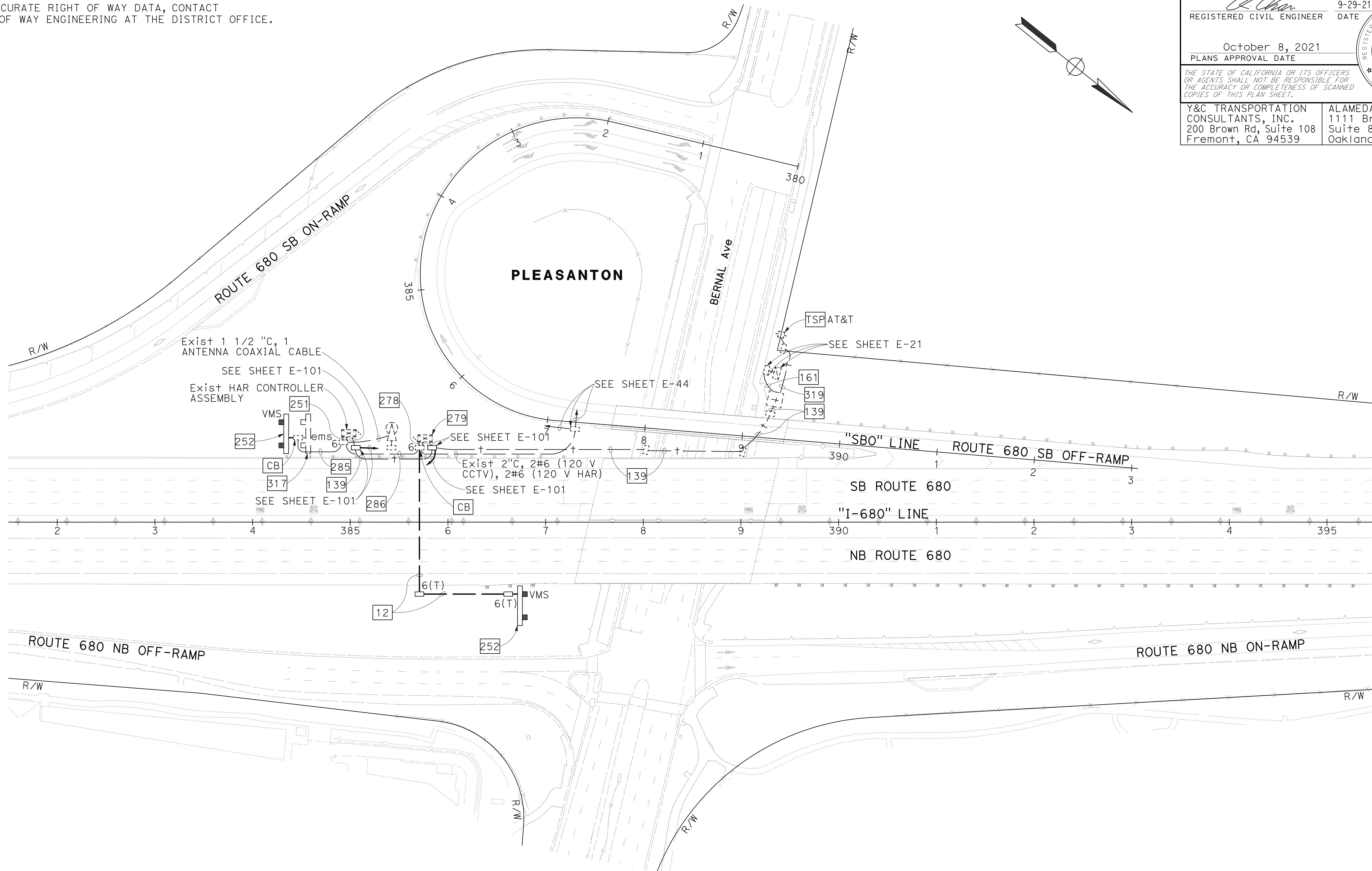
 9-29-21
 REGISTERED CIVIL ENGINEER DATE

October 8, 2021
 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.

Y&C TRANSPORTATION CONSULTANTS, INC.
 200 Brown Rd, Suite 108
 Fremont, CA 94539

ALAMEDA CTC
 1111 Broadway
 Suite 800
 Oakland, CA 94607

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans

MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CHECKED BY	DESIGNED BY
TIMOTHY J. LEE	

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

MODIFYING HIGHWAY ADVISORY RADIO SYSTEMS

SCALE: 1" = 50'

E-75

LAST REVISION DATE PLOTTED => 8-MAR-2022
 09-29-21 TIME PLOTTED => 16:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala, CC	680	R11.0/R21.9, R0.0/R0.9	1199	1710

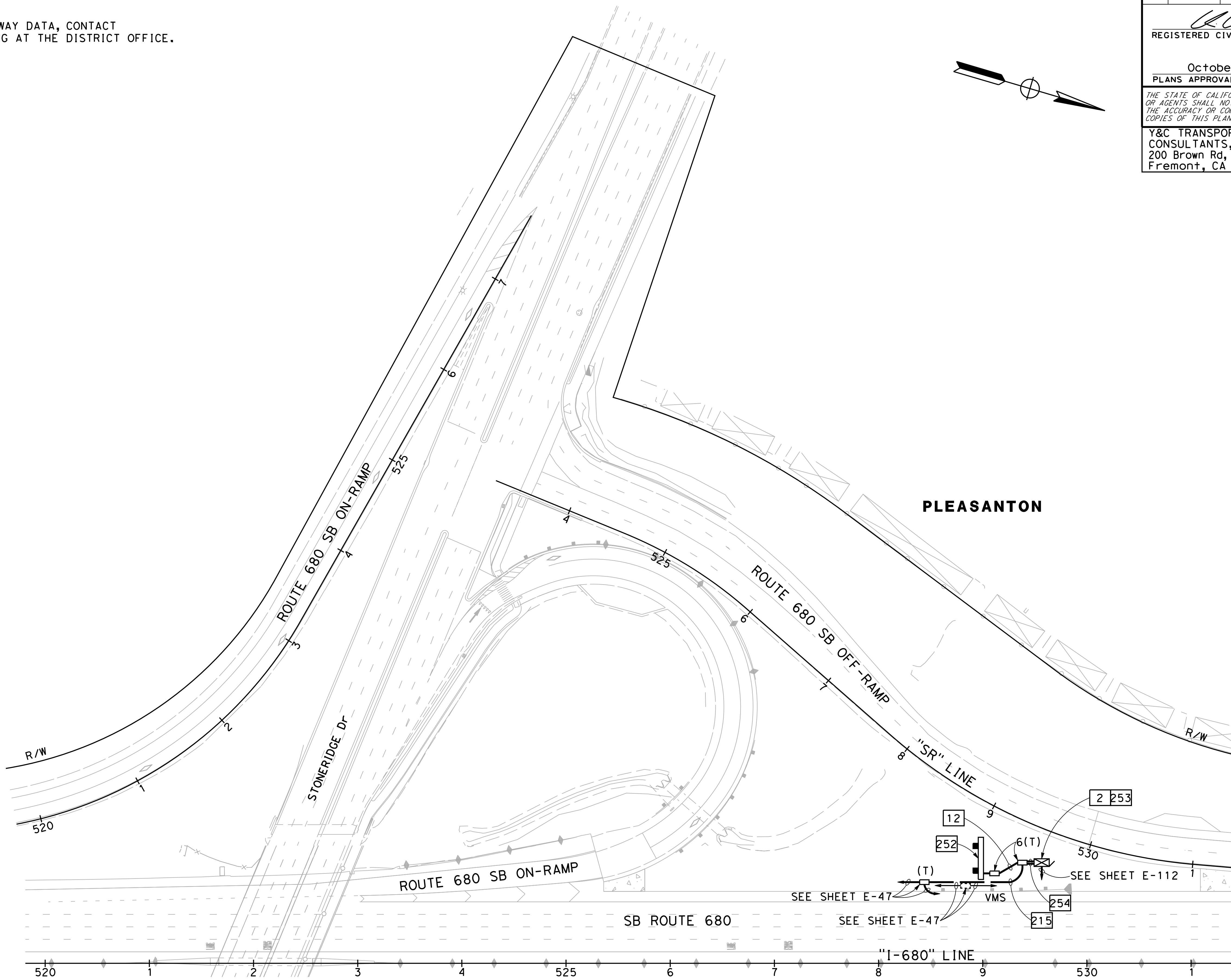
<i>K. Chan</i>	9-29-21
REGISTERED CIVIL ENGINEER	DATE

October 8, 2021
PLANS APPROVAL DATE

Y&C TRANSPORTATION CONSULTANTS, INC. 200 Brown Rd, Suite 108 Fremont, CA 94539	ALAMEDA CTC 1111 Broadway Suite 800 Oakland, CA 94607
---	--

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

MY	9-29-21
REVISOR	DATE
MENG YANG	DAN K. YAU
CALCULATED- DESIGNED BY	CHECKED BY
TIMOTHY J. LEE	
CONSULTANT FUNCTIONAL SUPERVISOR	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	



MODIFYING HIGHWAY ADVISORY RADIO SYSTEMS
SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 TO E-5

APPROVED FOR ELECTRICAL WORK ONLY

E-76

LAST REVISION DATE PLOTTED => 2/11/2022 09-29-21 TIME PLOTTED => 11:20:27 AM

