Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9 0.0/24.6	1	175

INDEX OF PLANS

SHEET NO.	DESCRIPTION
1	TITLE SHEET AND LOCATION MAP
2	KEY MAP AND LINE INDEX
3	WATER QUALITY POLLUTION CONTROL QUANTITIES
4-65	UTILITY PLANS
66	CONSTRUCTION AREA SIGNS
67	EROSION CONTROL LEGEND AND QUANTITIES
68-176	ELECTRICAL PLANS

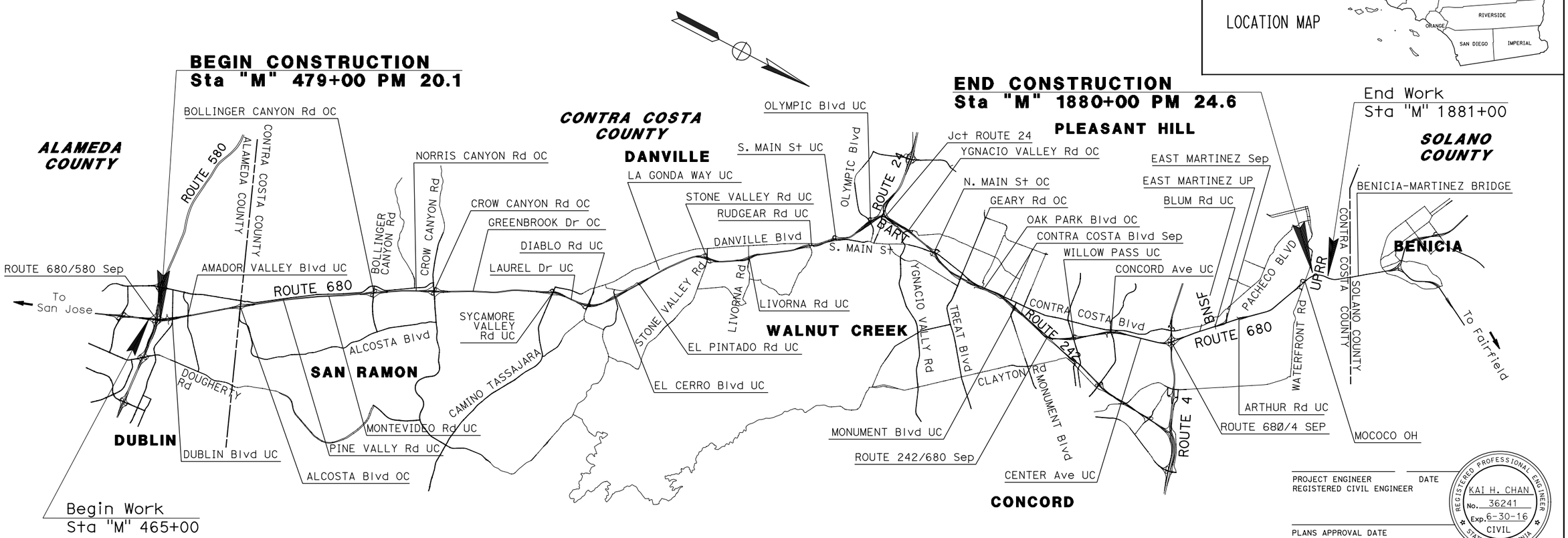
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS. BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN ALAMEDA AND CONTRA COSTA COUNTIES ON ROUTE 680 FROM ROUTE 580 TO BENICIA BRIDGE TOLL PLAZA AND VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

LOCATION MAP



PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
KAI H. CHAN
No. 36241
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CONTRACT No.	04-2J3304
PROJECT ID	0414000490

LAST REVISION 00-00-00
DATE PLOTTED => 5/27/2015
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THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

APPROVED AS TO IMPACT ON STATE FACILITIES AND CONFORMANCE WITH APPLICABLE STATE STANDARDS AND PRACTICES AND THAT TECHNICAL OVERSIGHT WAS PERFORMED.

CONSULTANT DESIGN ENGINEER: ARON ZEREZGHI
CALTRANS DESIGN OVERSIGHT APPROVAL
REGISTRATION No.
LICENSE Exp DATE
DATE SIGNED XX/XX/XX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	2	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KAI H. CHAN No. 36241 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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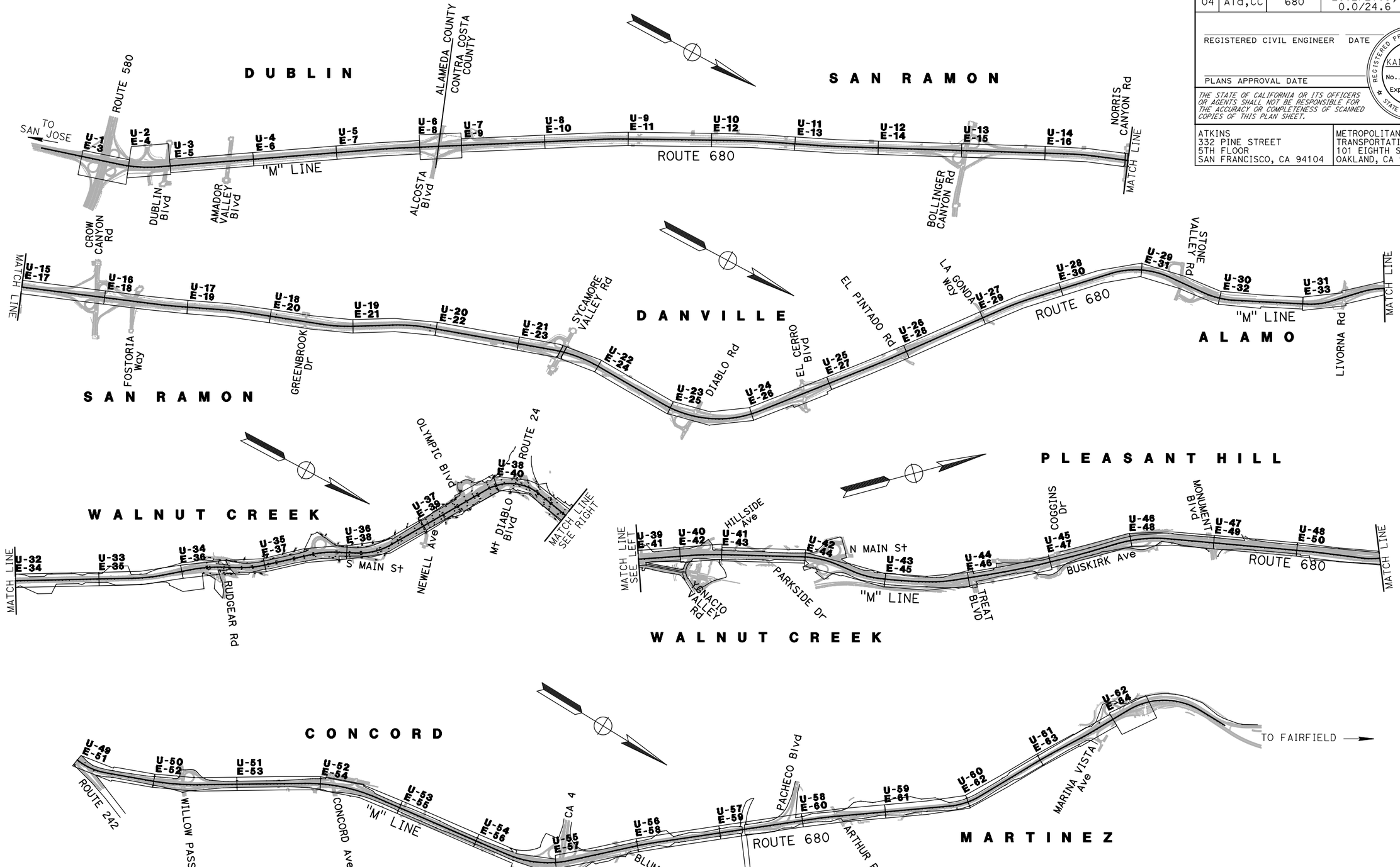

KEY MAP AND LINE INDEX

NO SCALE

K-1

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ARON ZEREZGHI — NATHAN COPE — CALCULATED-DESIGNED BY — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	3	175

REGISTERED CIVIL ENGINEER DATE

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TEMPORARY WATER POLLUTION CONTROL SUMMARY

SHEET No.	Temp DRAINAGE INLET PROTECTION	Temp FIBER ROLLS
	EA	LF
E-3 THRU E-69	70	2,400
TOTAL	70	2,400

TEMPORARY WATER POLLUTION CONTROL QUANTITIES

WPCQ-1

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	4	175

REGISTERED CIVIL ENGINEER DATE

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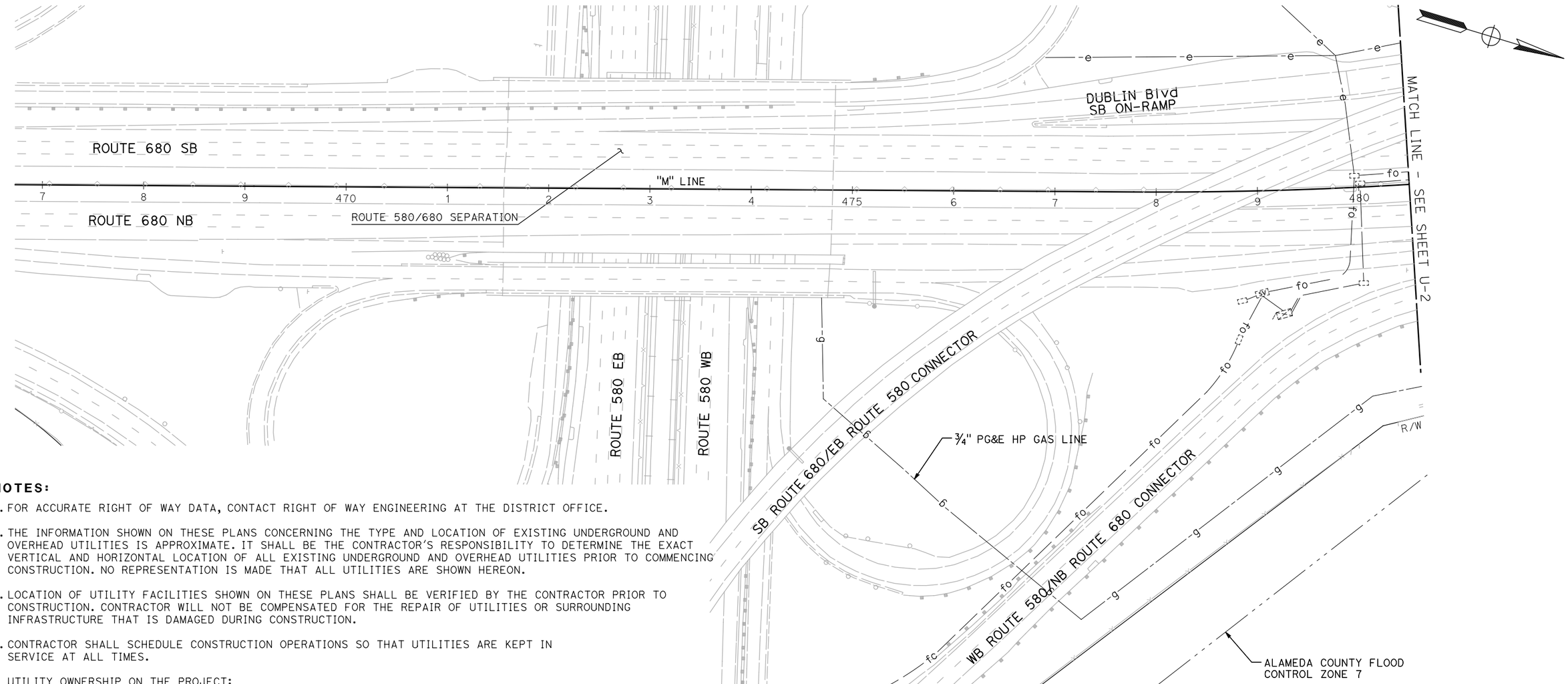
LEGEND:

- w — WATER LINE
- tv — U/G CABLE TV LINE
- e — U/G ELECTRICAL CONDUIT
- s — SANITARY SEWER LINE
- g — NATURAL GAS LINE
- t — U/G TELEPHONE LINE
- U/G COMMUNICATION LINE
- e (oh) — AERIAL ELECTRICAL LINE
- sd — STORM DRAIN LINE
- o — OIL LINE
- fo — U/G FIBER-OPTIC LINE

ABBREVIATIONS:

Abnd	ABANDONED
AT&T	AMERICAN TELEPHONE & TELEGRAPH COMPANY
CCCSD	CENTRAL CONTRA COSTA SANITARY DISTRICT
DSRSD	DUBLIN SAN RAMON SERVICES DISTRICT
EBMUD	EAST BAY MUNICIPAL UTILITY DISTRICT
FO	FIBER OPTIC
HPG	HIGH PRESSURE GAS
JT	JOINT TRENCH
kV	KILOVOLT
PG&E	PACIFIC GAS & ELECTRIC COMPANY
PP66	PHILLIPS 66
STL	STEEL
TV	TELEVISION



NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES IS APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON.
3. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOT BE COMPENSATED FOR THE REPAIR OF UTILITIES OR SURROUNDING INFRASTRUCTURE THAT IS DAMAGED DURING CONSTRUCTION.
4. CONTRACTOR SHALL SCHEDULE CONSTRUCTION OPERATIONS SO THAT UTILITIES ARE KEPT IN SERVICE AT ALL TIMES.

UTILITY OWNERSHIP ON THE PROJECT:

CABLE TELEVISION	COMCAST
ELECTRIC	PG&E, CITY OF SAN RAMON
GAS	PG&E
WATER	DSRSD, CCWD, EBMUD ZONE 7 WATER AGENCY
SANITARY SEWER	EBMUD, CCCSD, MVSD
FIBER OPTIC	COMCAST, LEVEL 3, AND AT&T
TELEPHONE	AT&T, PACIFIC BELL, SPRINT, VERIZON
PETROLLEUM	KINDER MORGAN, SANTA FE PACIFIC, TOSCO, EQUILON, SHELL, EXXON, TEXACO, PHILLIPS 66

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-1

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	5	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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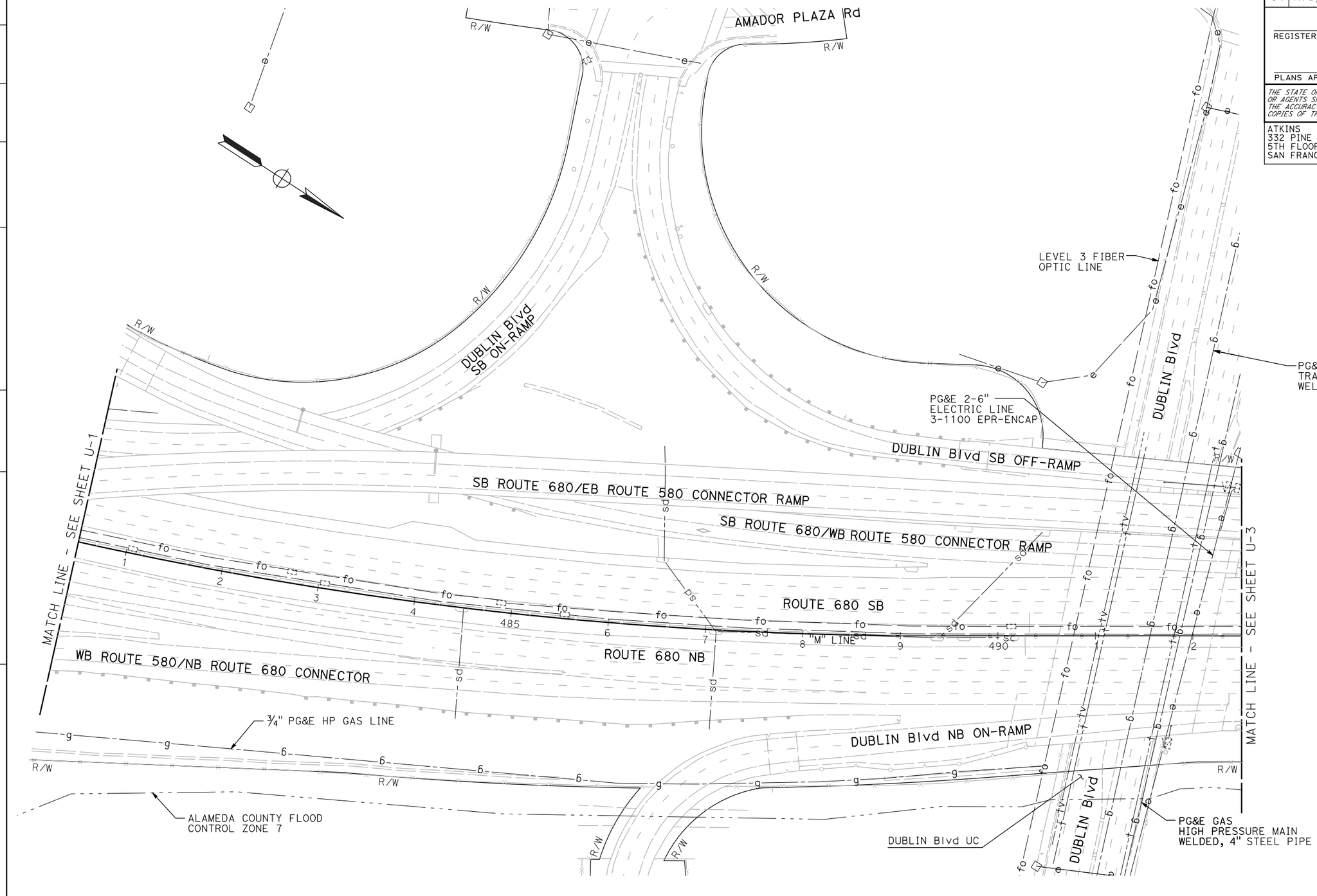

UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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U-2

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DGN FILE => 0414000490ka002.dgn
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UNIT 0750
PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	6	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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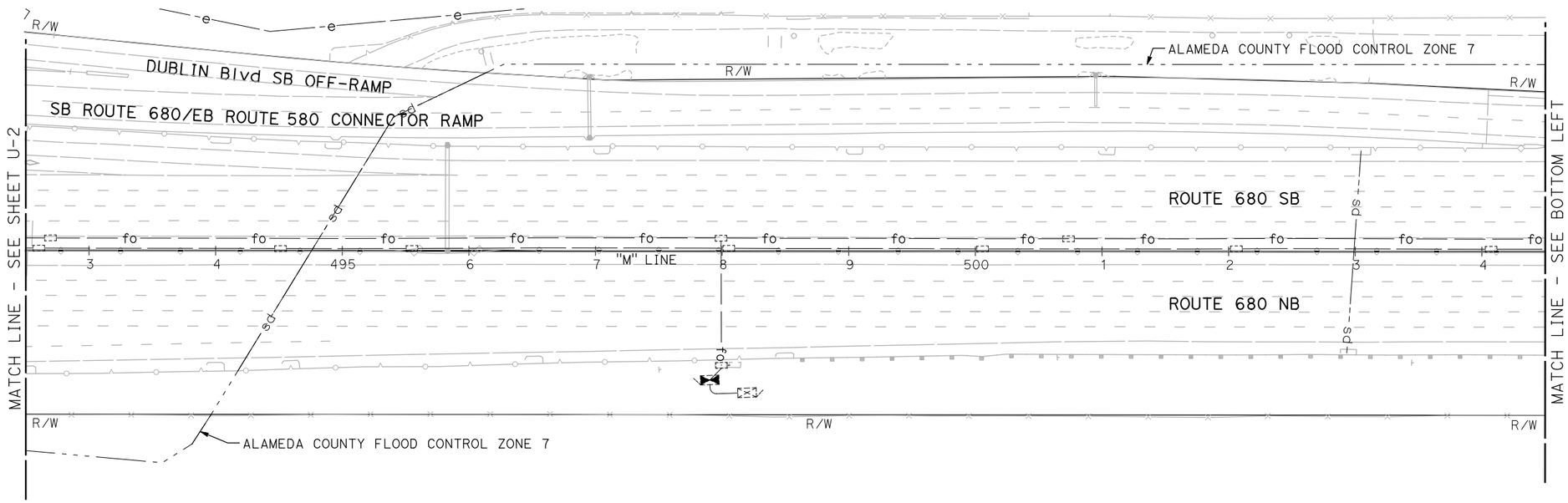
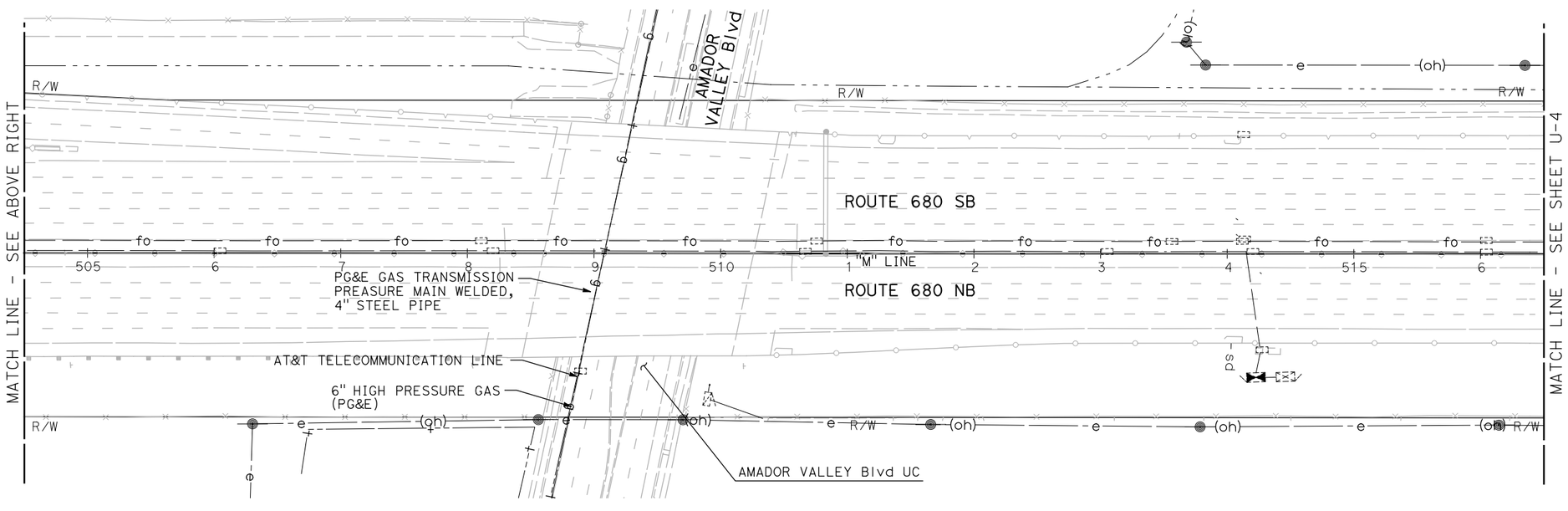
OAKLAND, CA 94607





NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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UTILITY PLAN

SCALE: 1" = 50'

U-3

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	7	175

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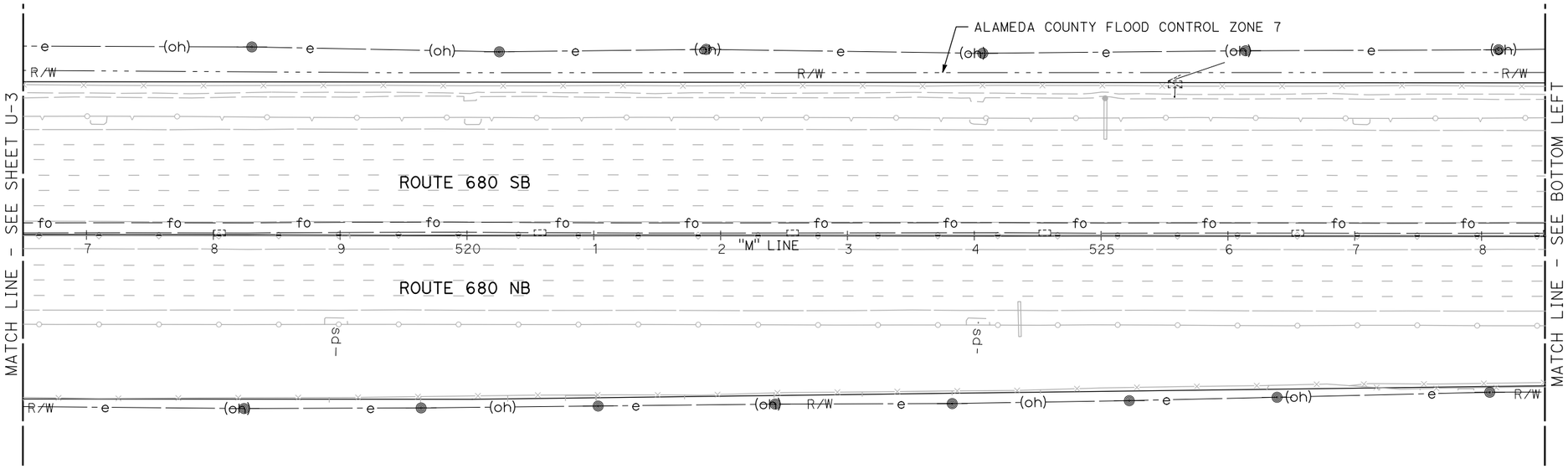

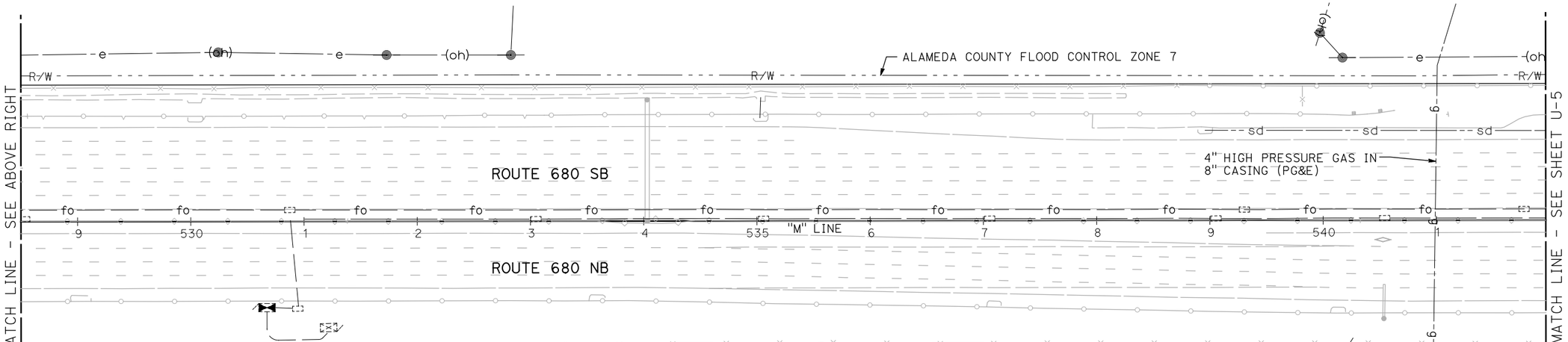

UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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04	Ala,CC	680	20.2/21.9, 0.0/24.6	8	175

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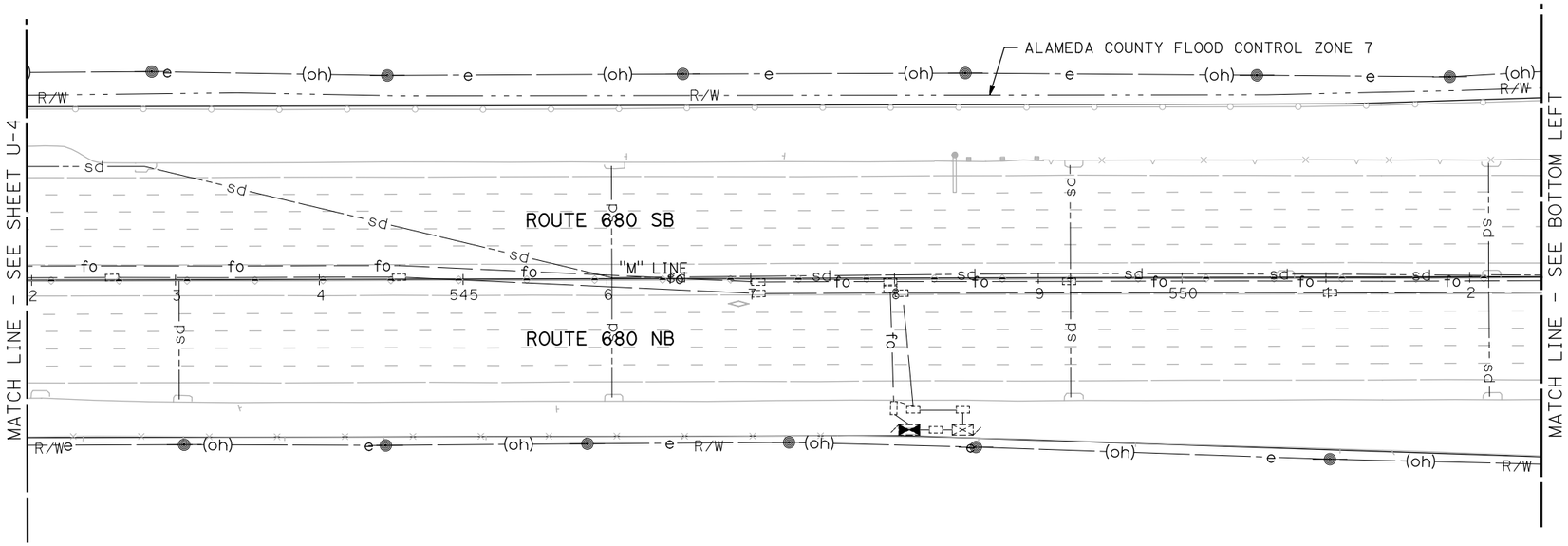

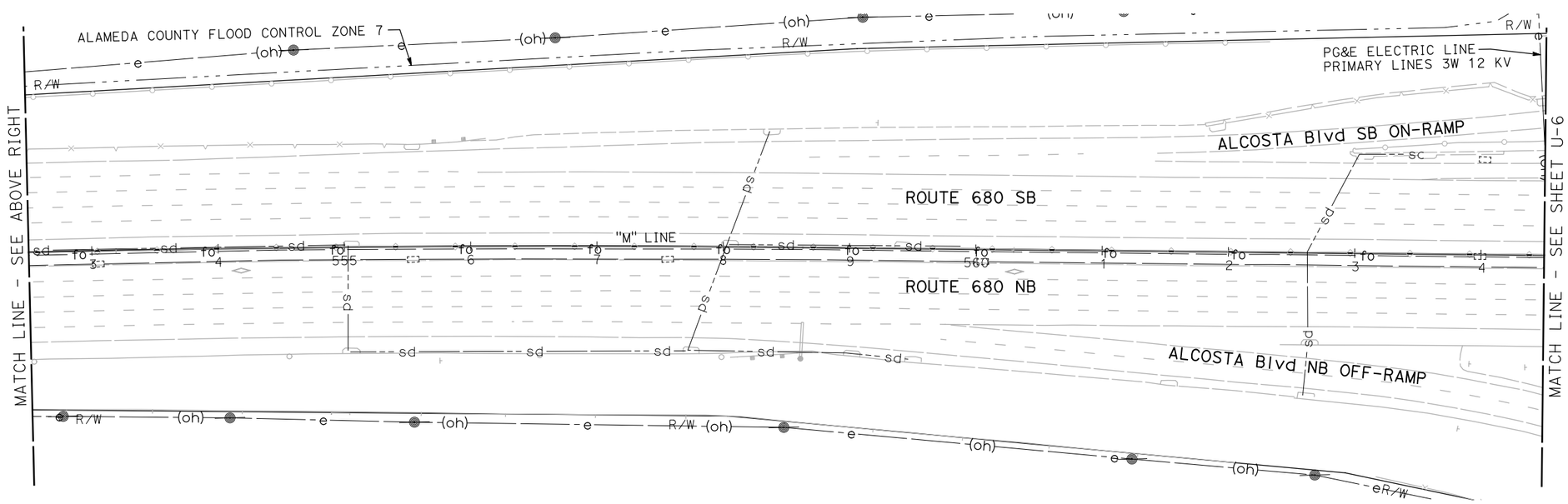

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UTILITY PLAN

SCALE: 1" = 50'

U-5

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04	Ala,CC	680	20.2/21.9, 0.0/24.6	9	175

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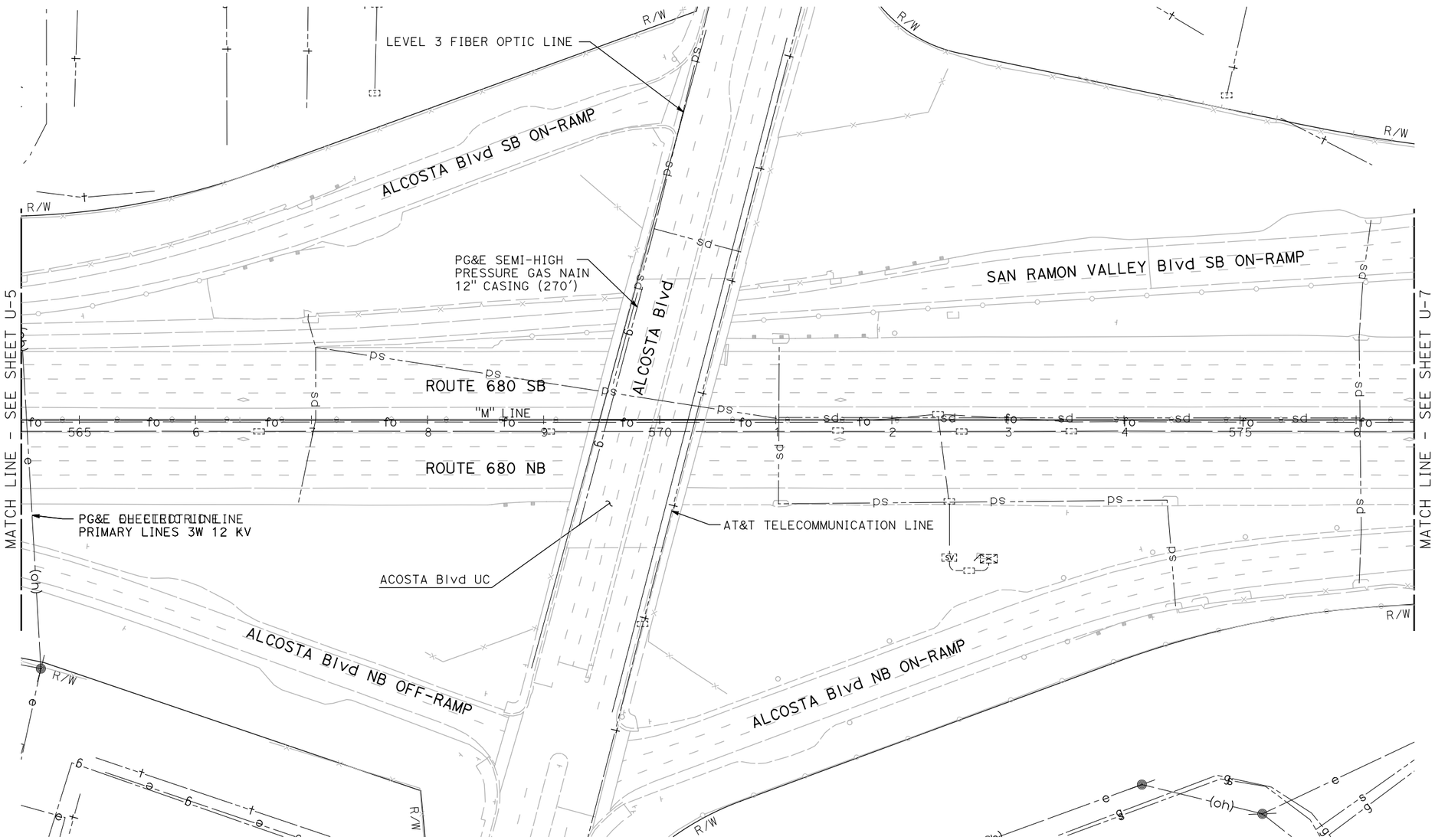

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UTILITY PLAN

SCALE: 1" = 50'

U-6

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	10	175

REGISTERED CIVIL ENGINEER DATE

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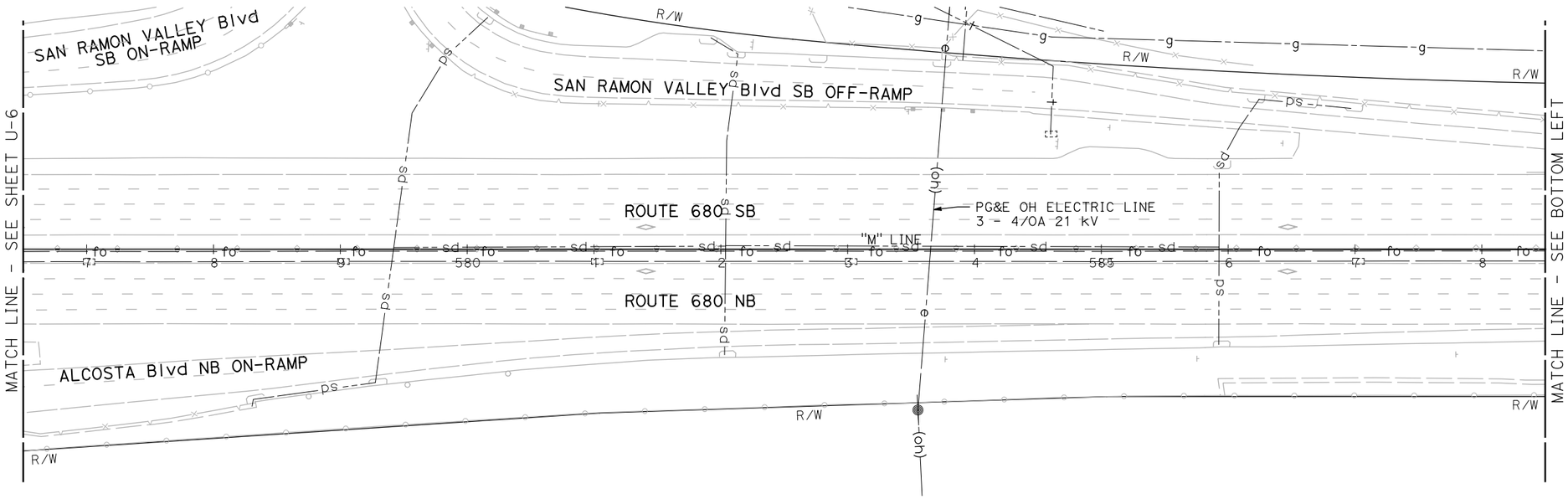

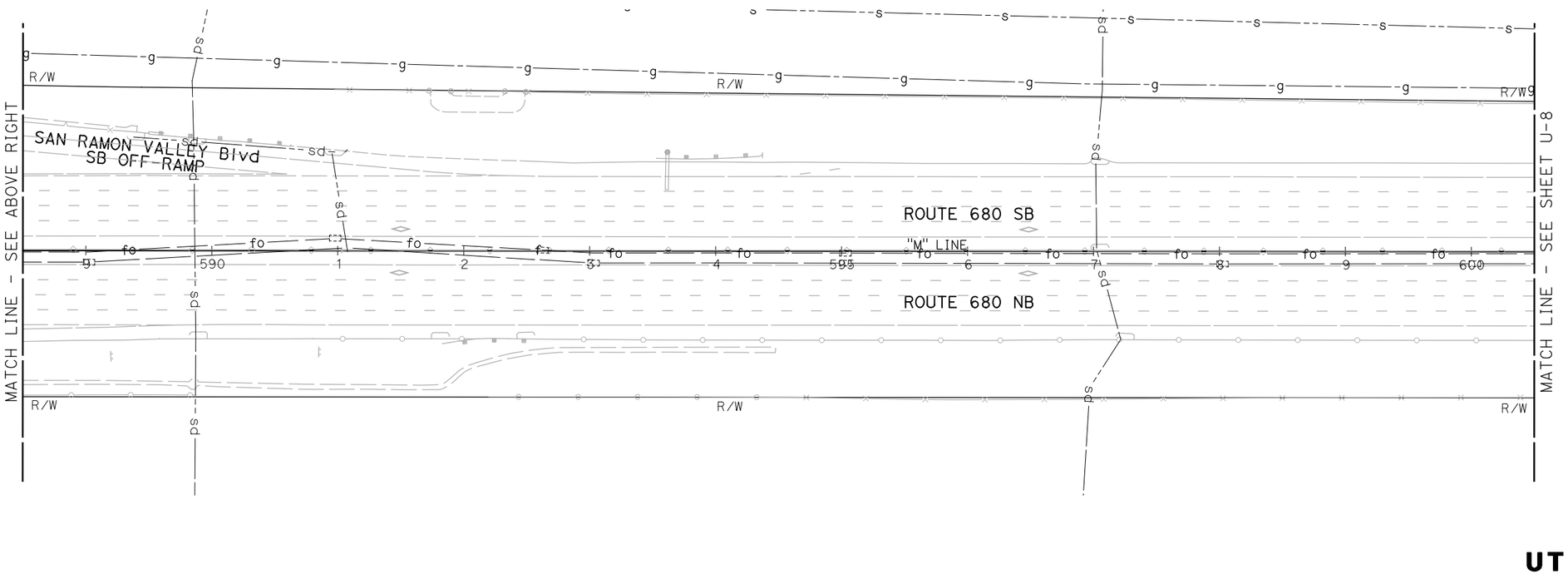

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UTILITY PLAN

SCALE: 1" = 50'

U-7

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	11	175

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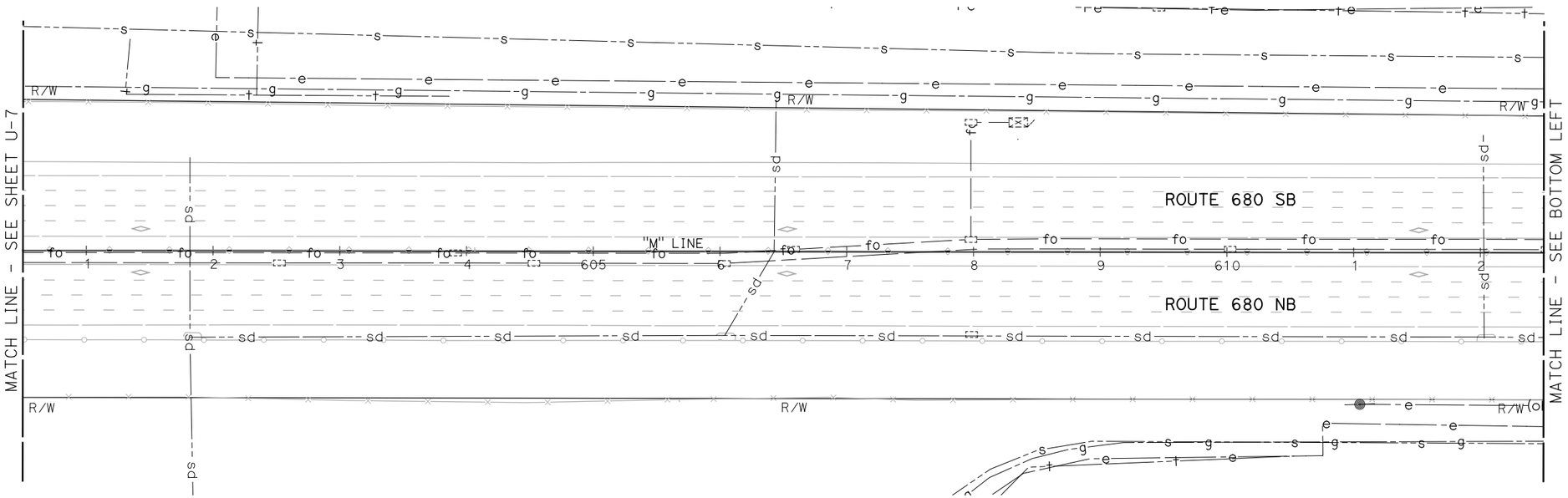
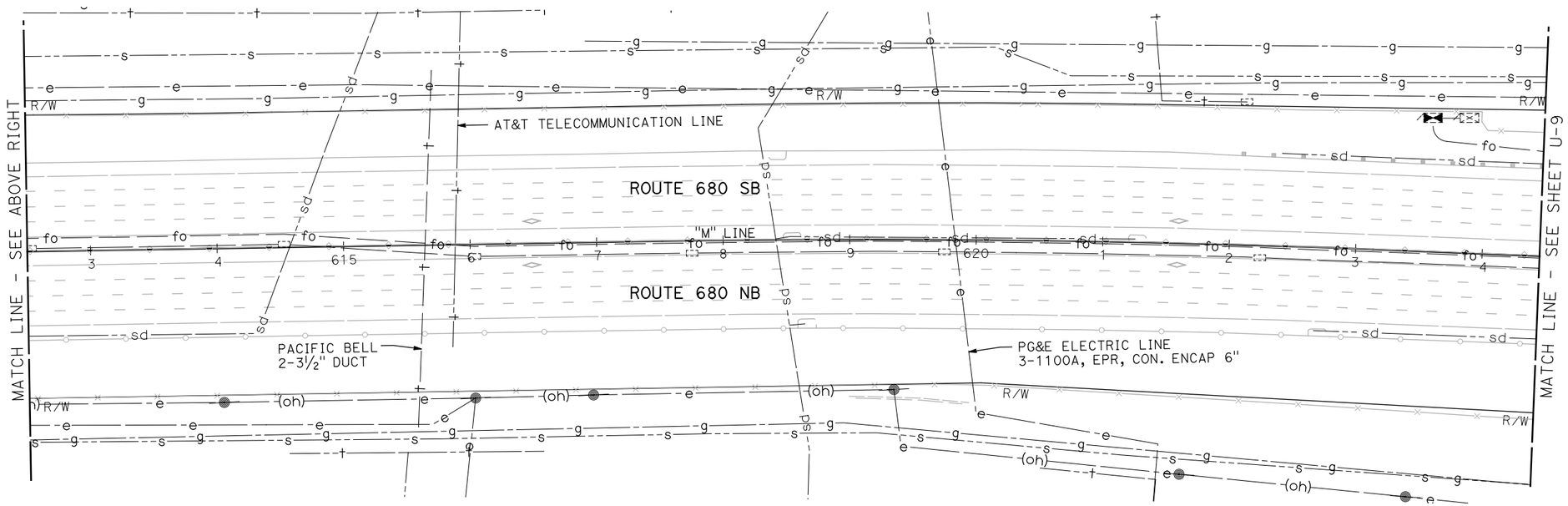
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	12	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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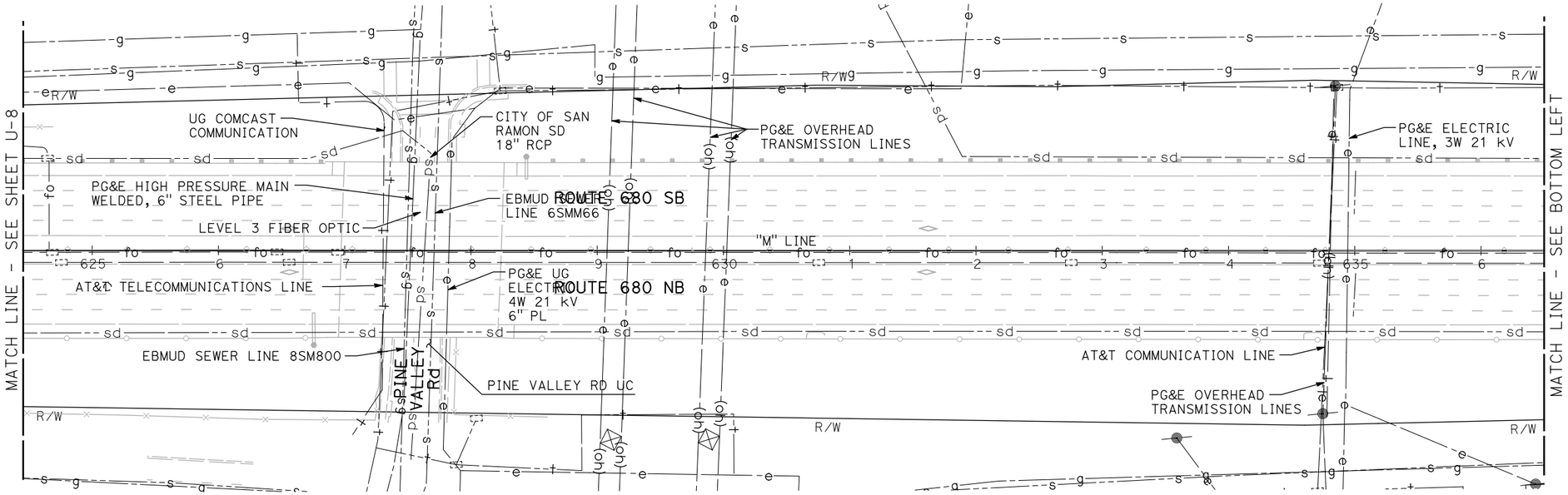

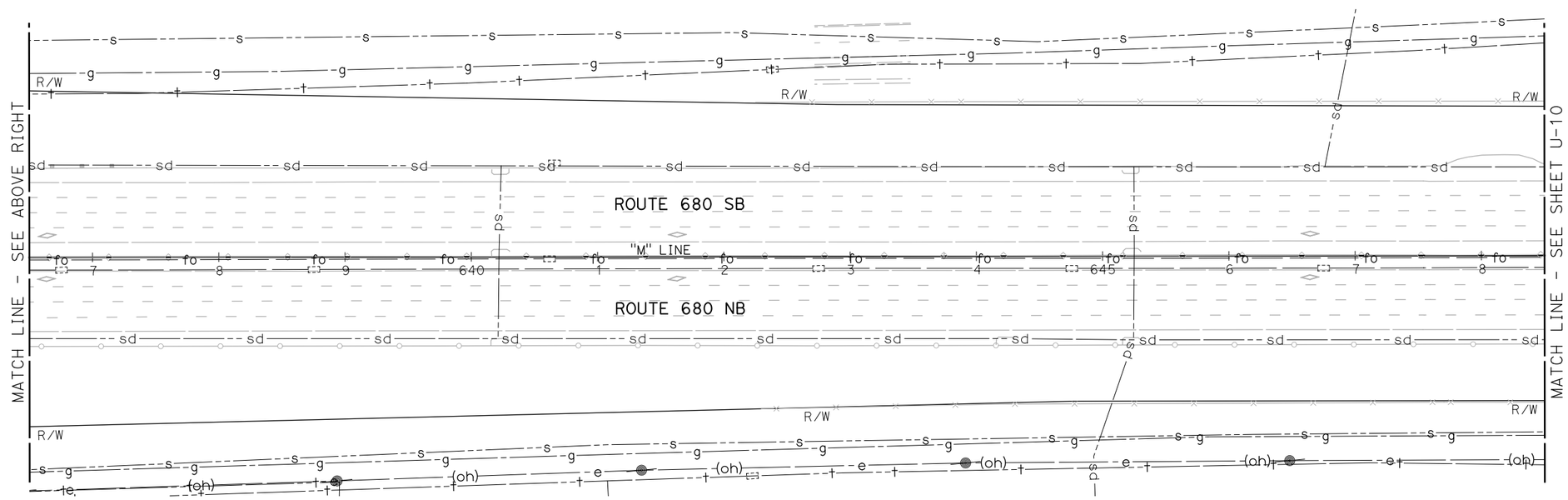

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UTILITY PLAN

SCALE: 1" = 50'

U-9

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DATE PLOTTED => 5/27/2015
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BORDER LAST REVISED 7/2/2010

USERNAME => ZERE2344
DGN FILE => 0414000490ka009.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0750

PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	13	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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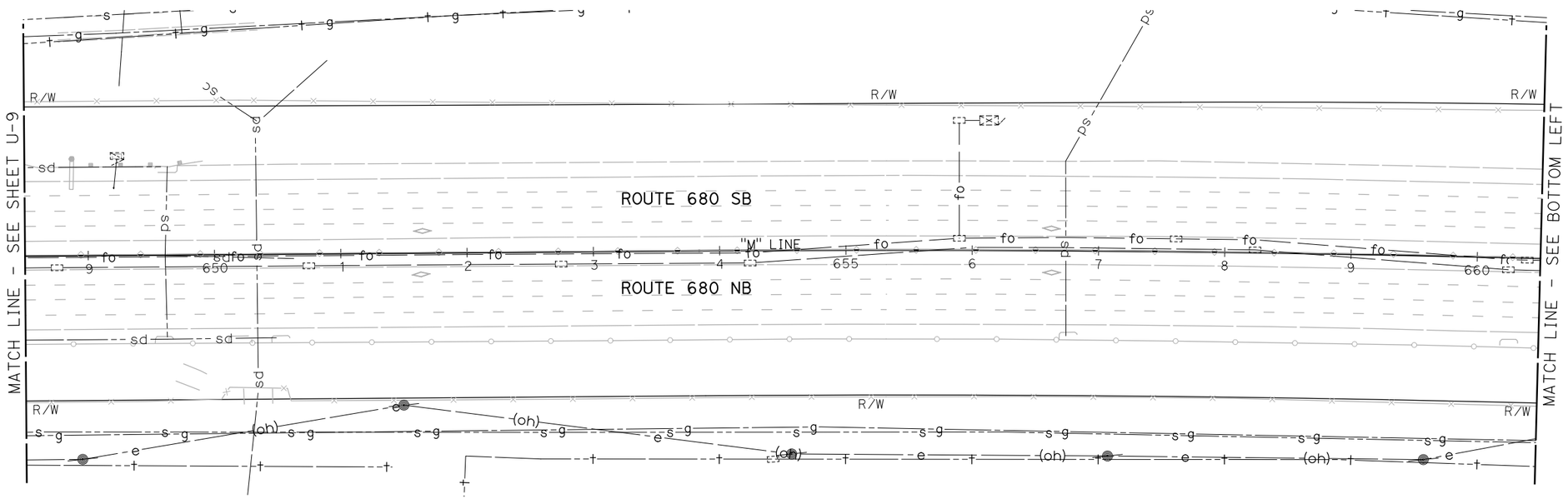
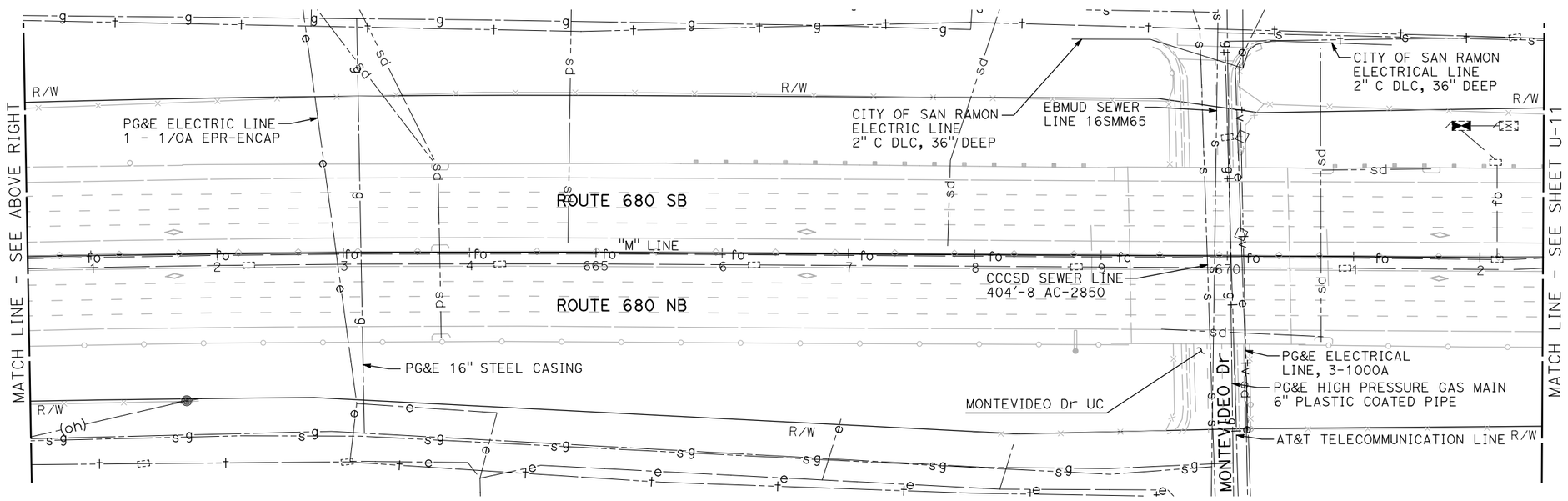
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	14	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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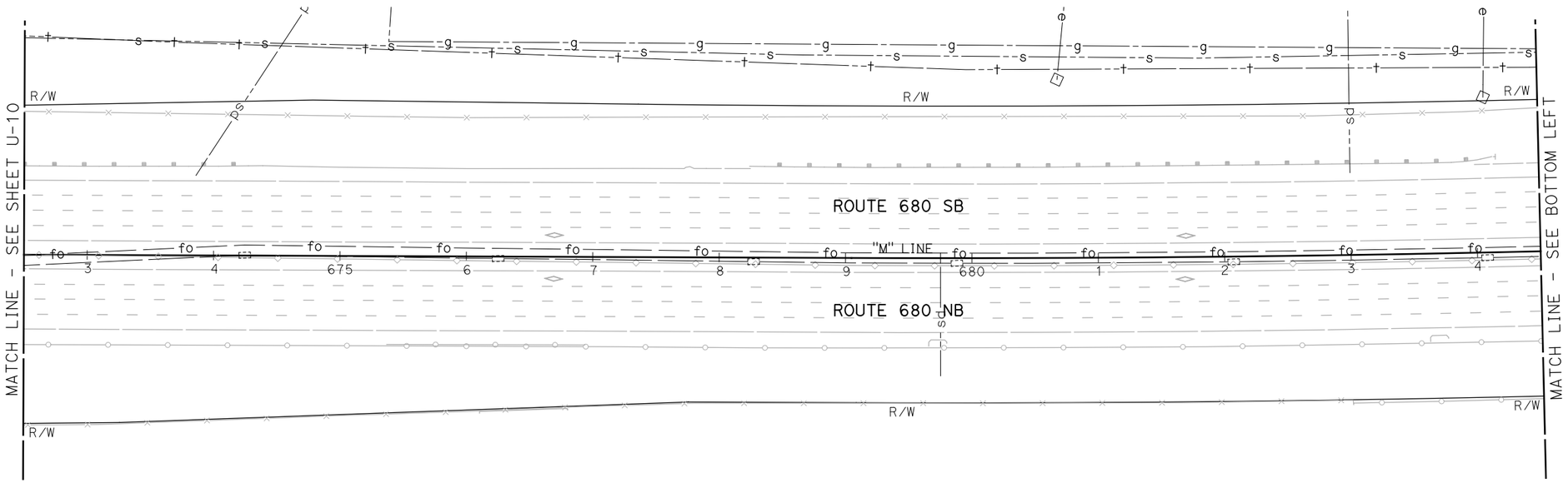
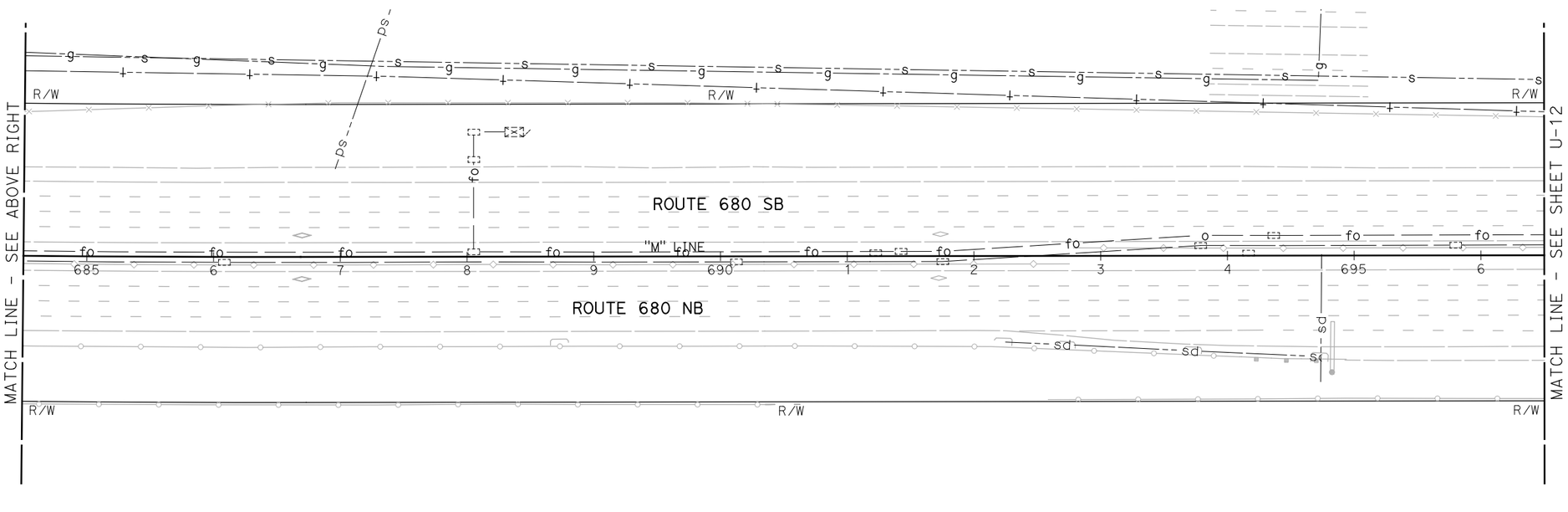
101 EIGHTH STREET
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	15	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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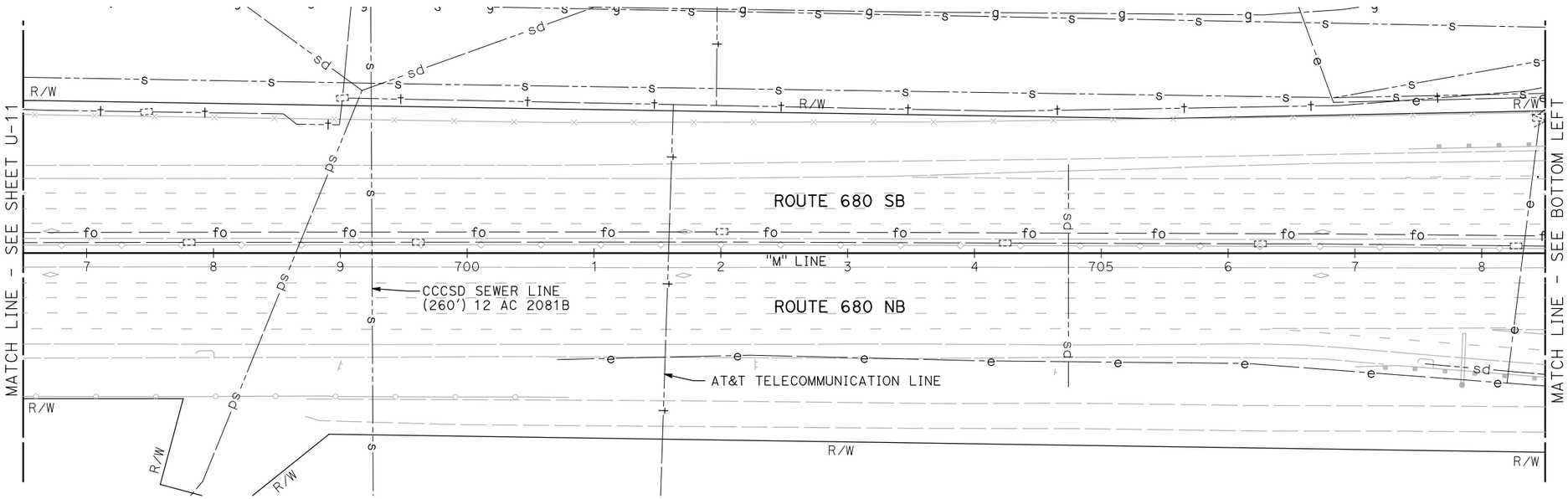
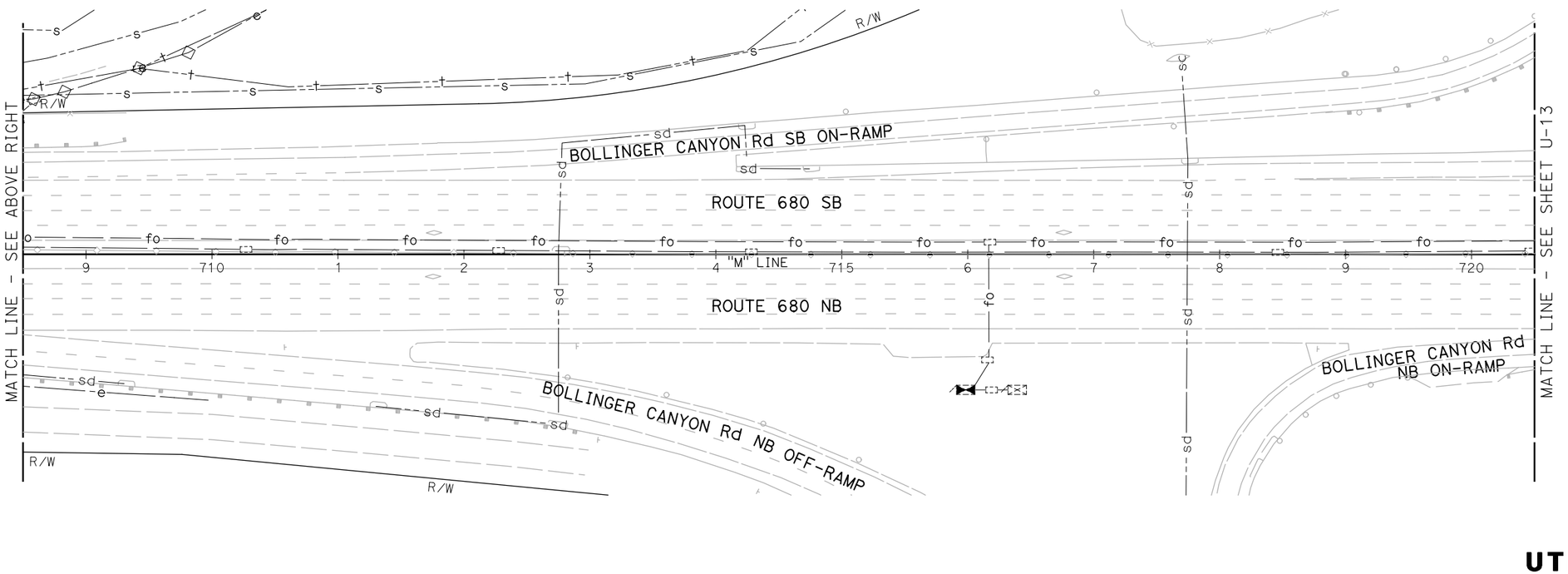
OAKLAND, CA 94607





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UTILITY PLAN

SCALE: 1" = 50'

U-12

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	16	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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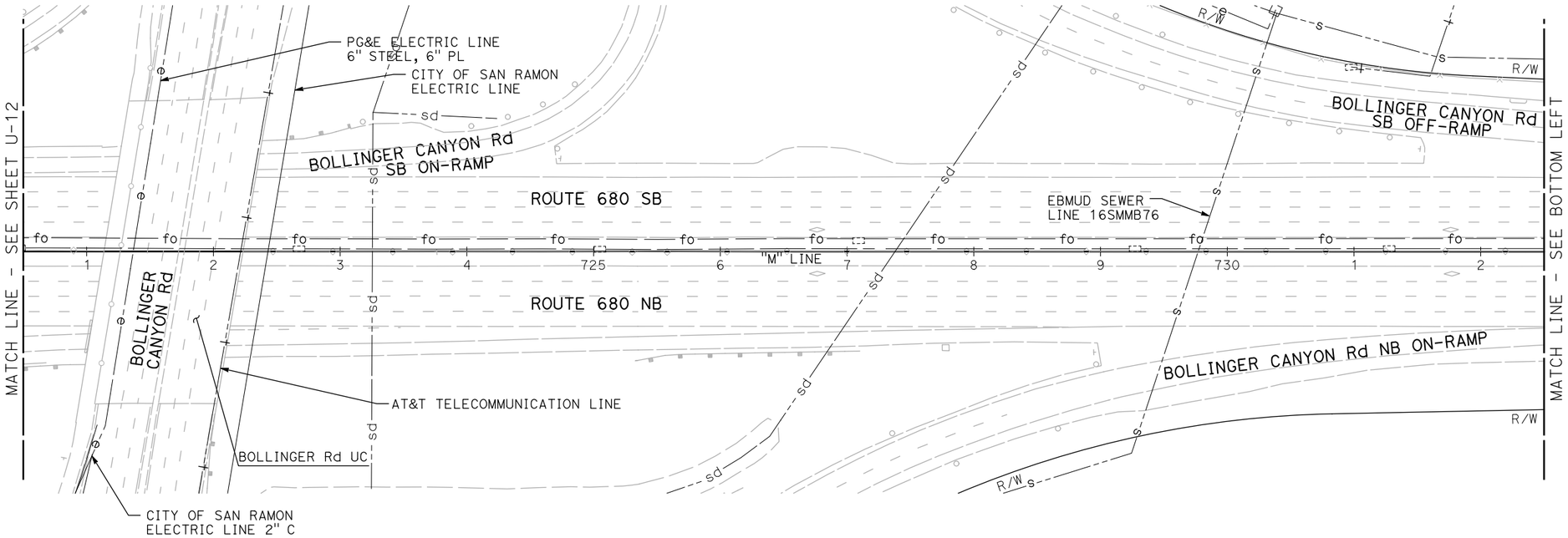

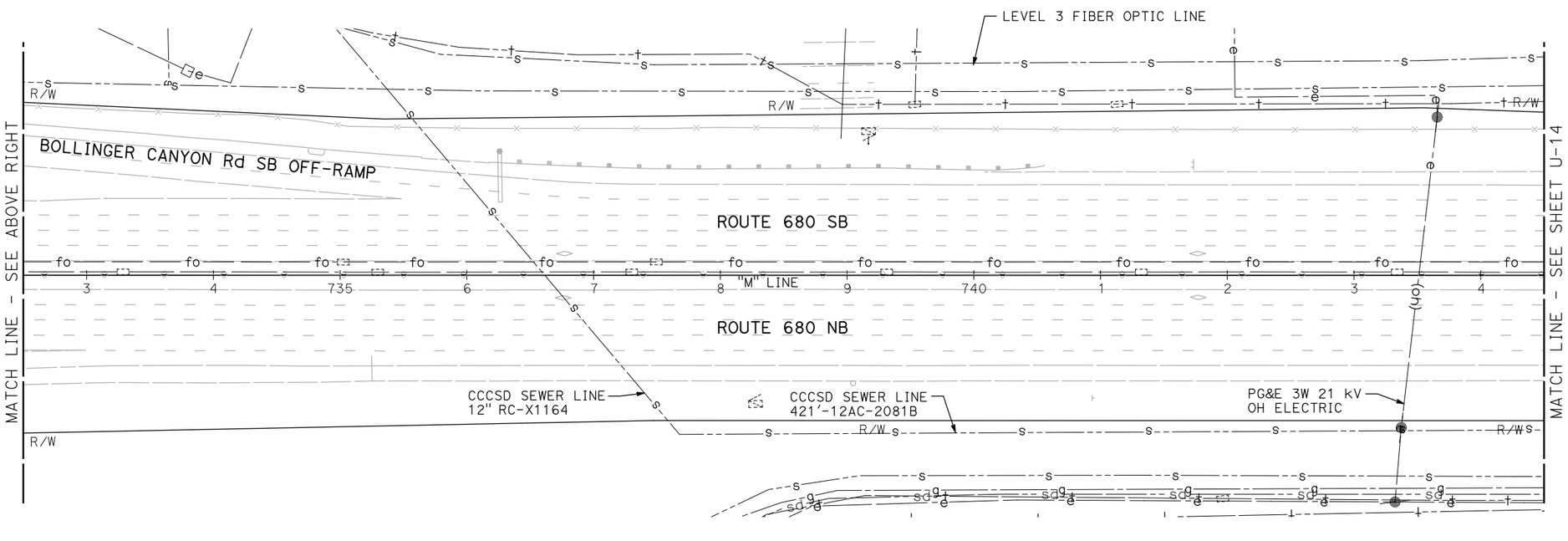

UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 DGN FILE => 0414000490ka013.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	17	175

REGISTERED CIVIL ENGINEER DATE

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REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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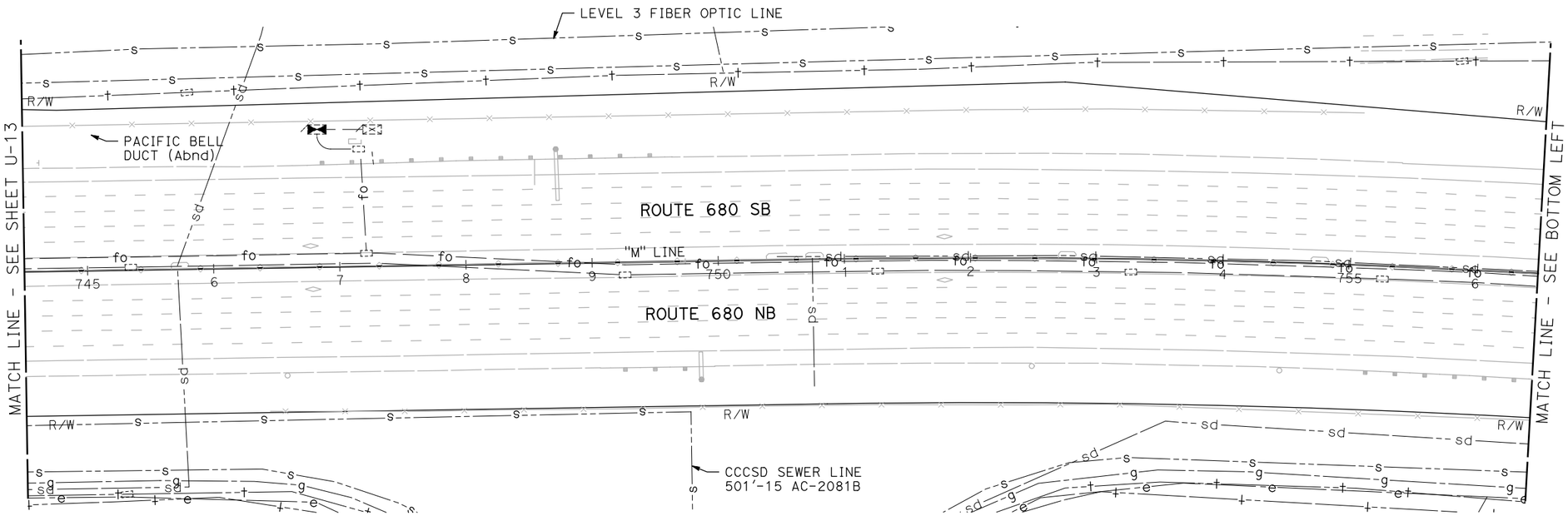
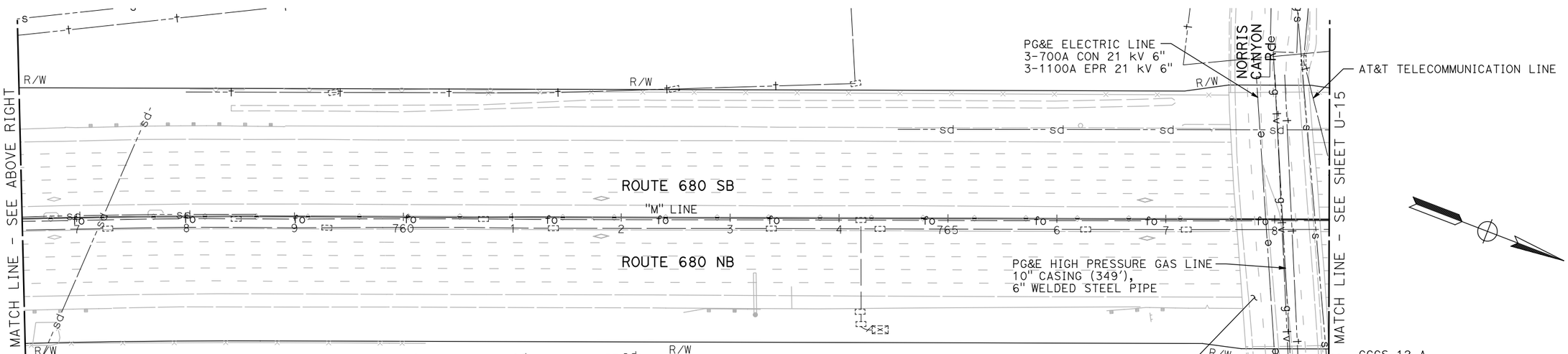
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	18	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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SAN FRANCISCO, CA 94104

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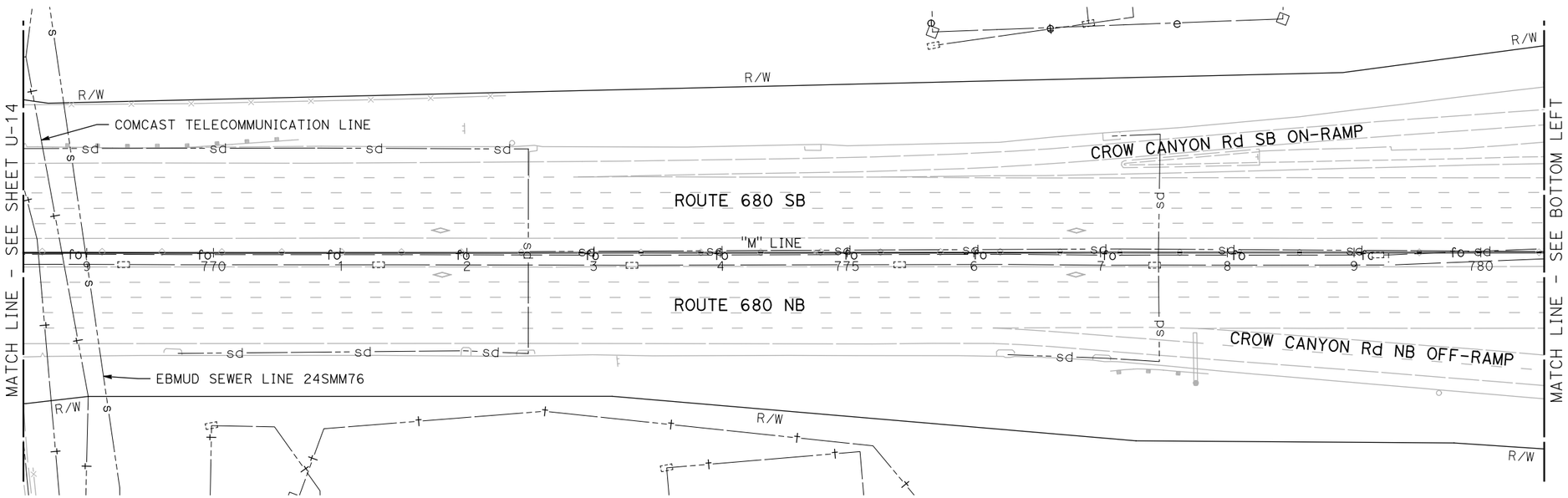
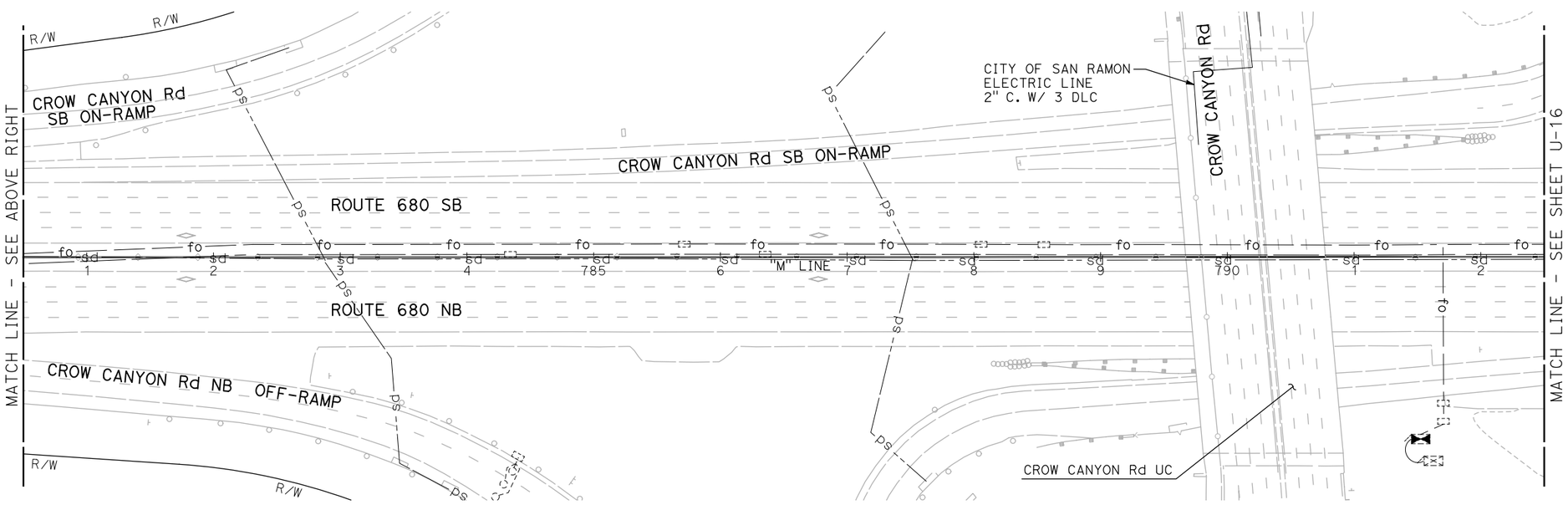
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	19	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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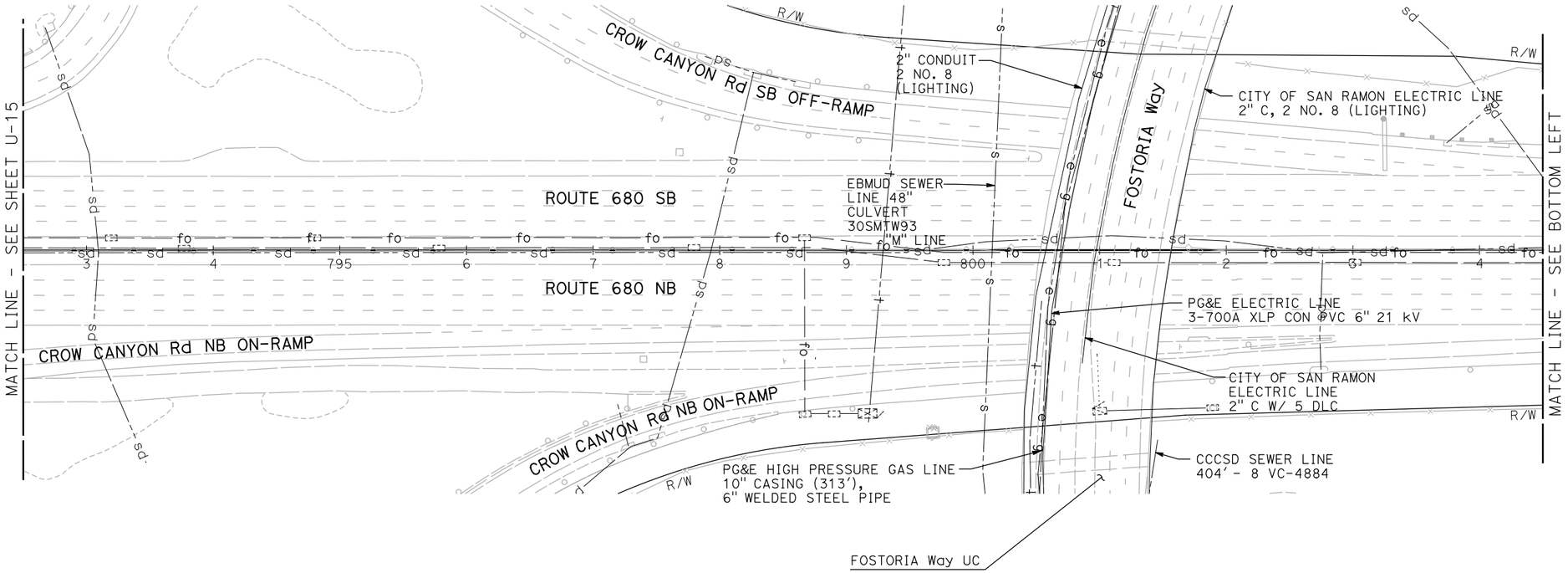
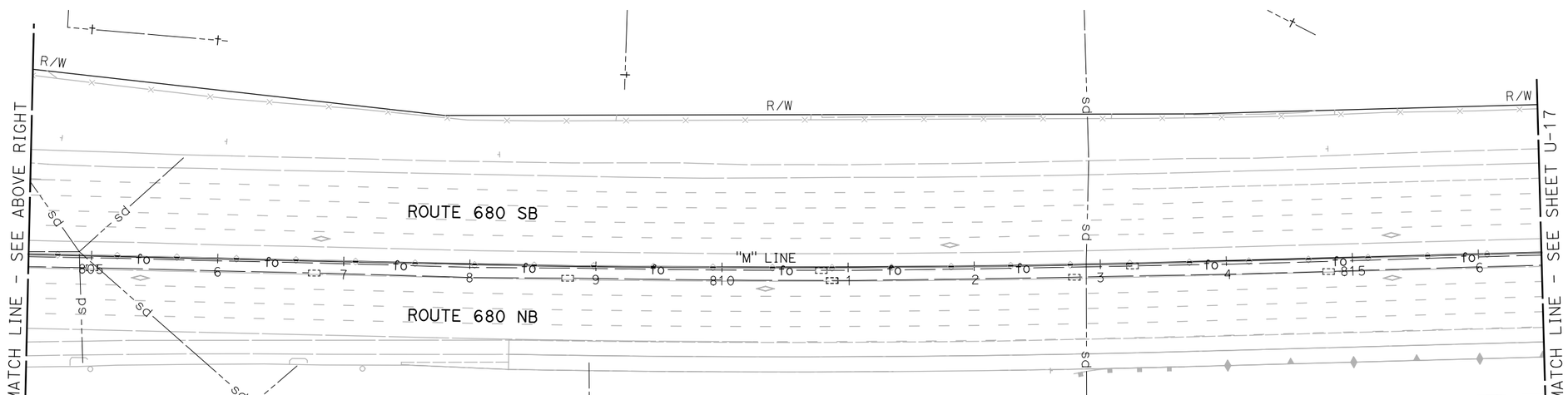
OAKLAND, CA 94607





NOTE:

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UTILITY PLAN

SCALE: 1" = 50'

U-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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BORDER LAST REVISED 7/2/2010

USERNAME => ZERE2344
DGN FILE => 0414000490ka016.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0750

PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	20	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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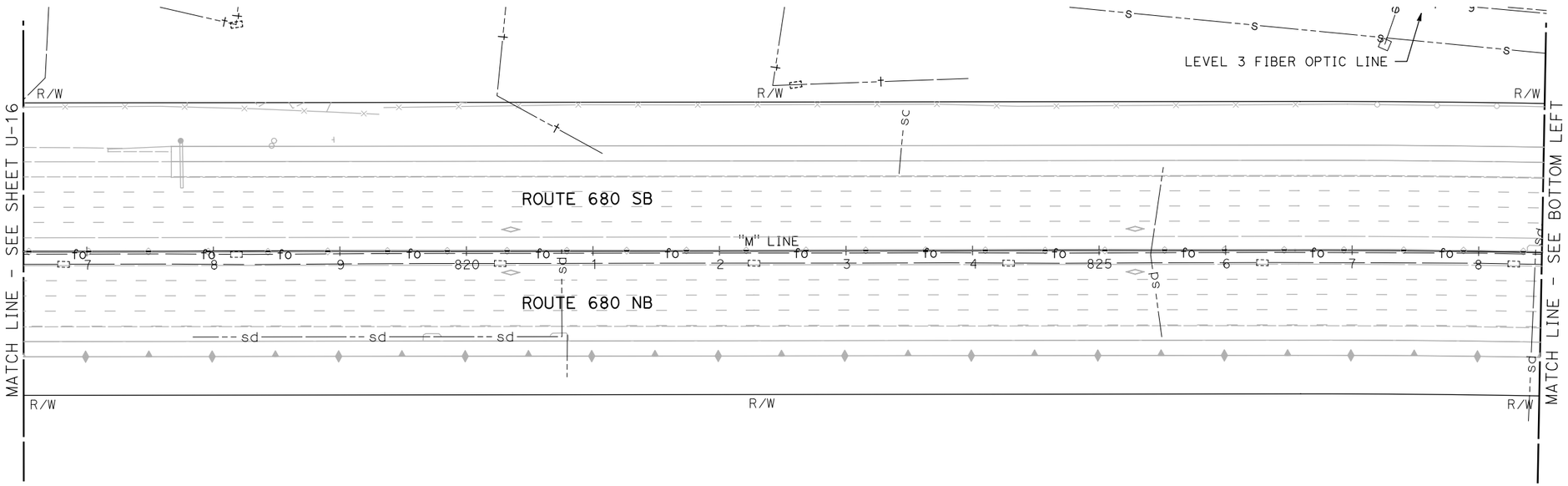

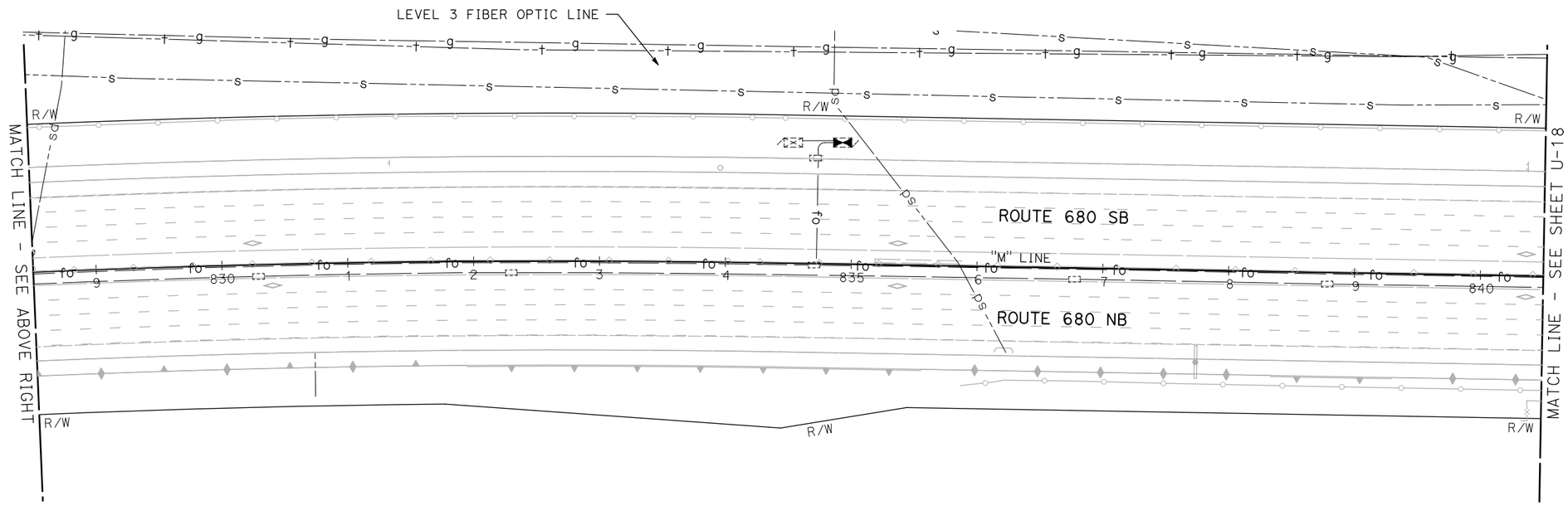

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UTILITY PLAN

SCALE: 1" = 50'

U-17

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	21	175

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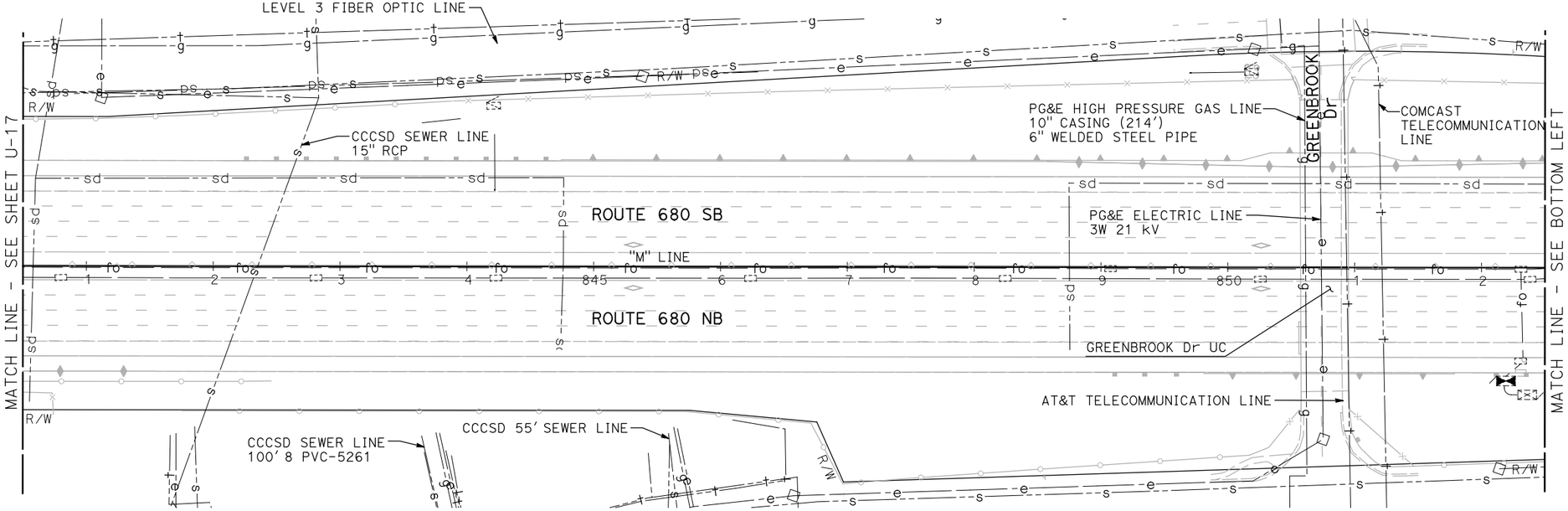
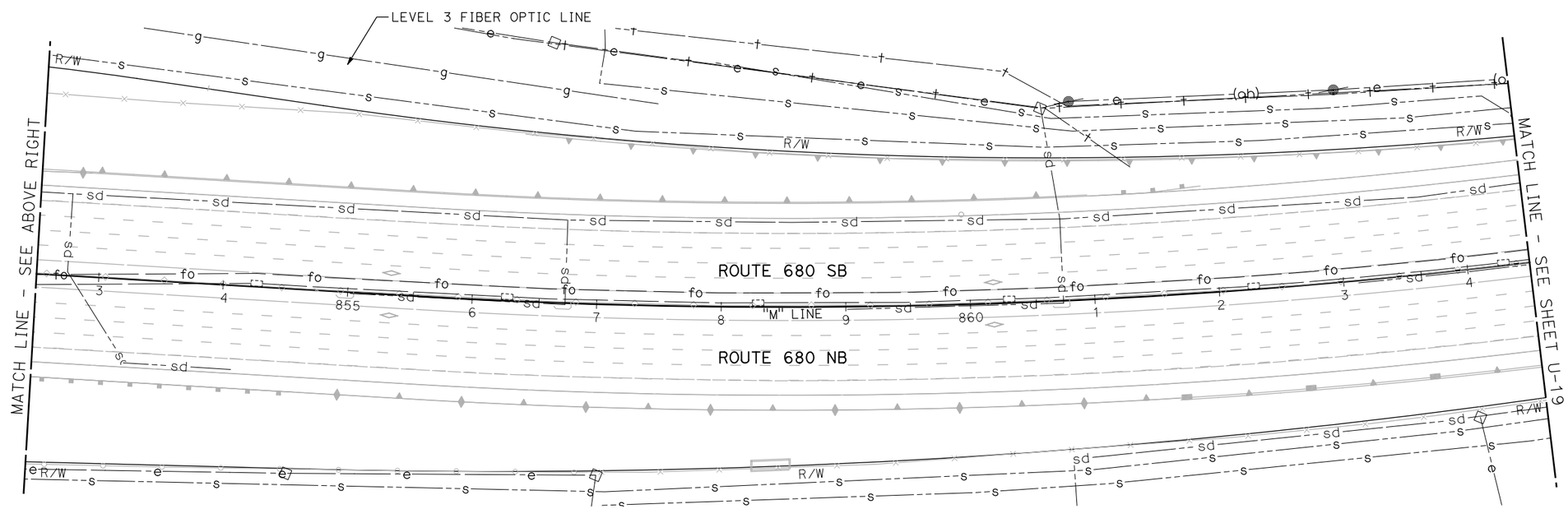
METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 DGN FILE => 0414000490ka018.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	22	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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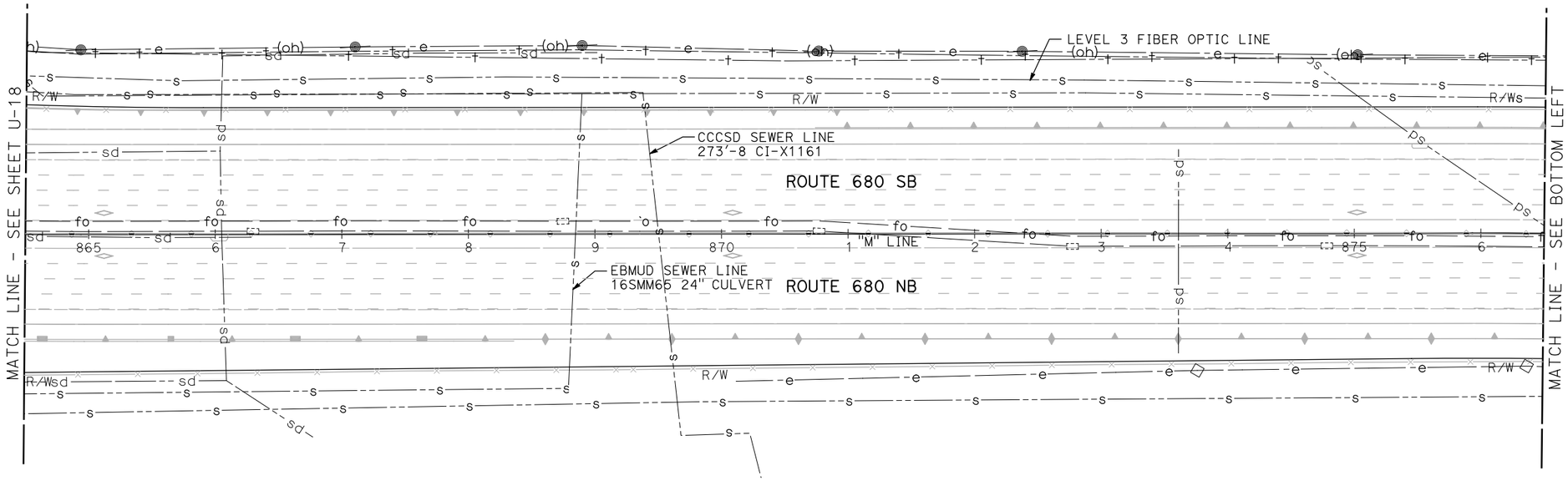
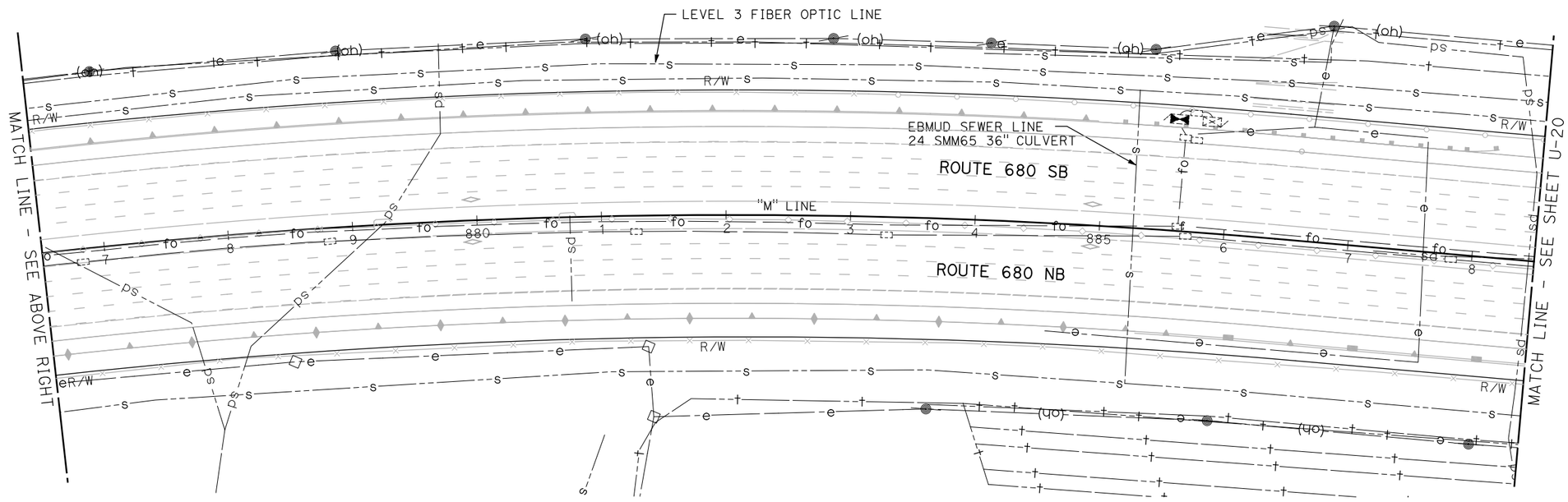
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-19

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ARON ZEREZGHI | NATHAN COPE

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/27/2015 | TIME PLOTTED => 4:12:38 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	23	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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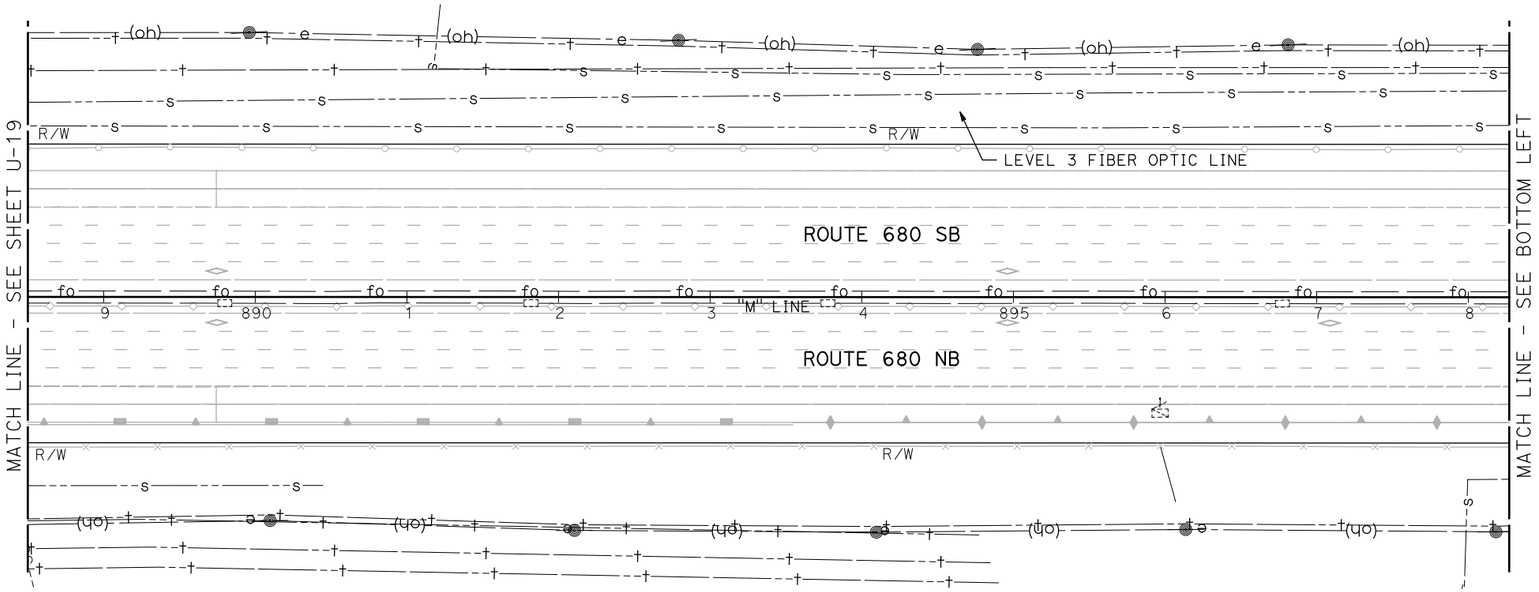
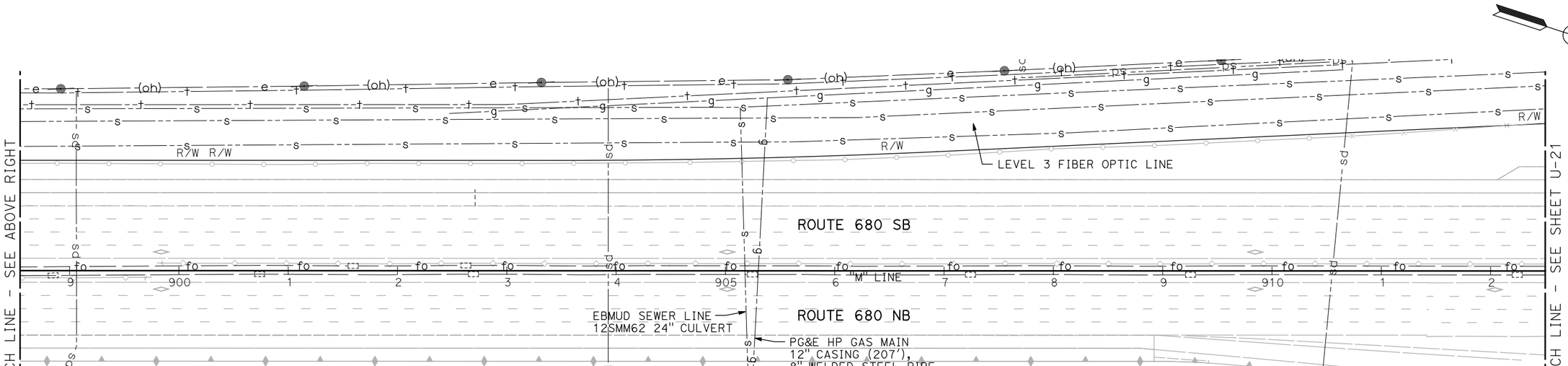
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

U-20

REVISED BY | DATE REVISED

ARON ZEREZGHI | NATHAN COPE

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/27/2015 | TIME PLOTTED => 4:12:42 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	24	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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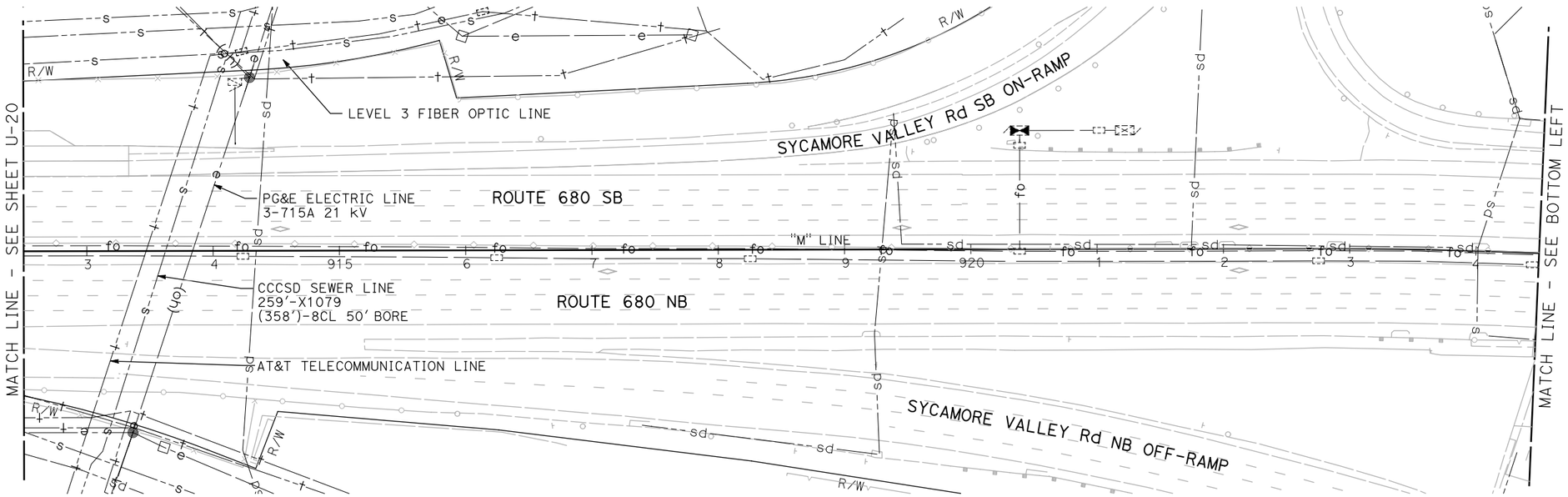
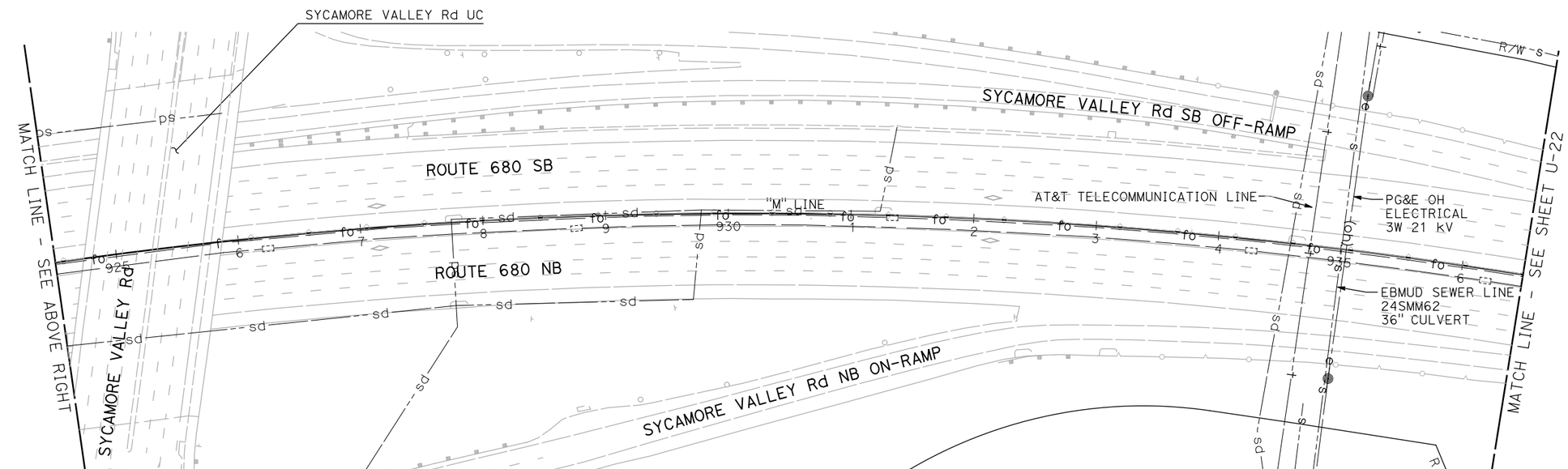
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

U-21

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/27/2015 TIME PLOTTED => 4:12:46 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	25	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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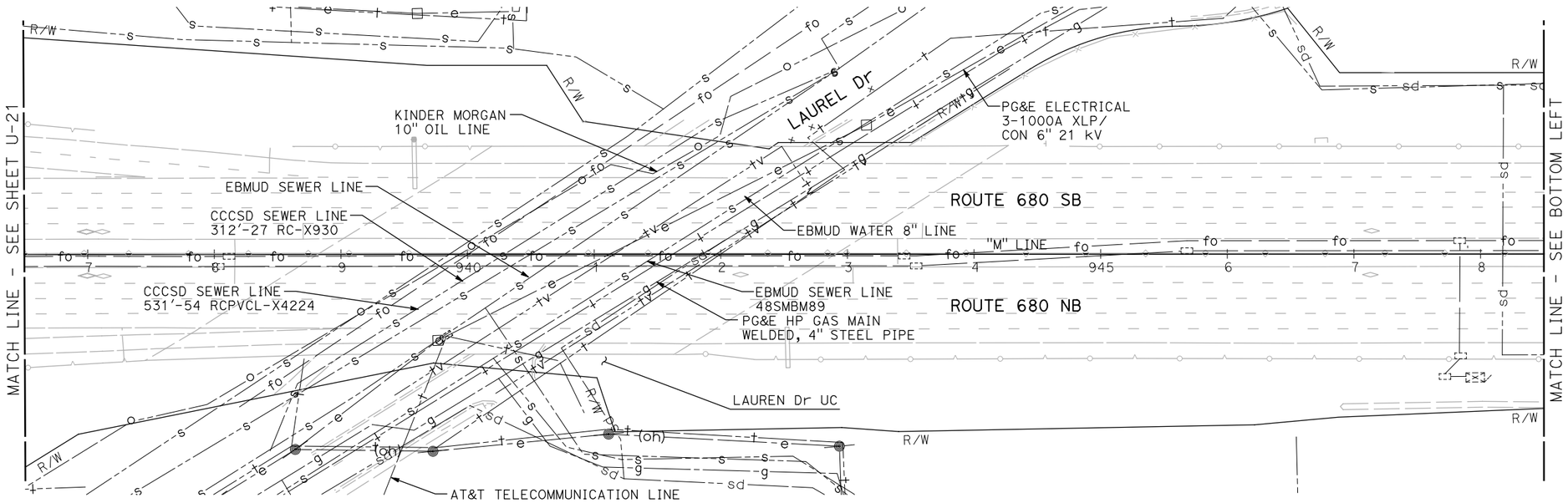
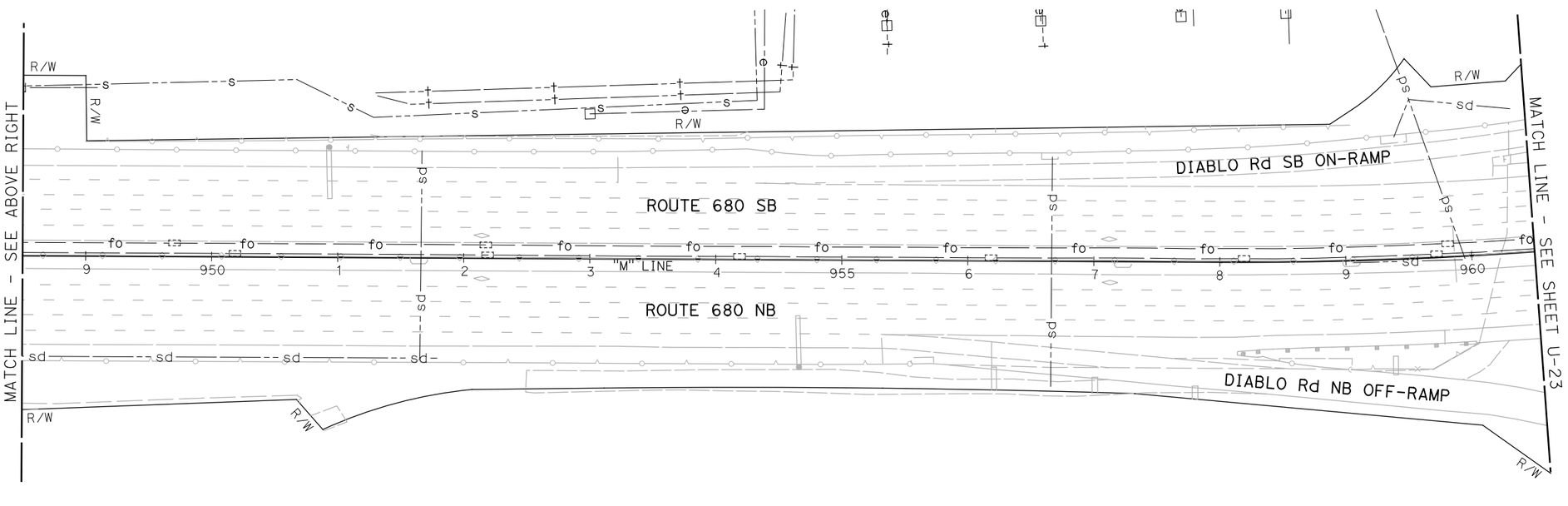
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

U-22

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/27/2015 TIME PLOTTED => 4:12:51 PM

BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 DGN FILE => 0414000490ka022.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	26	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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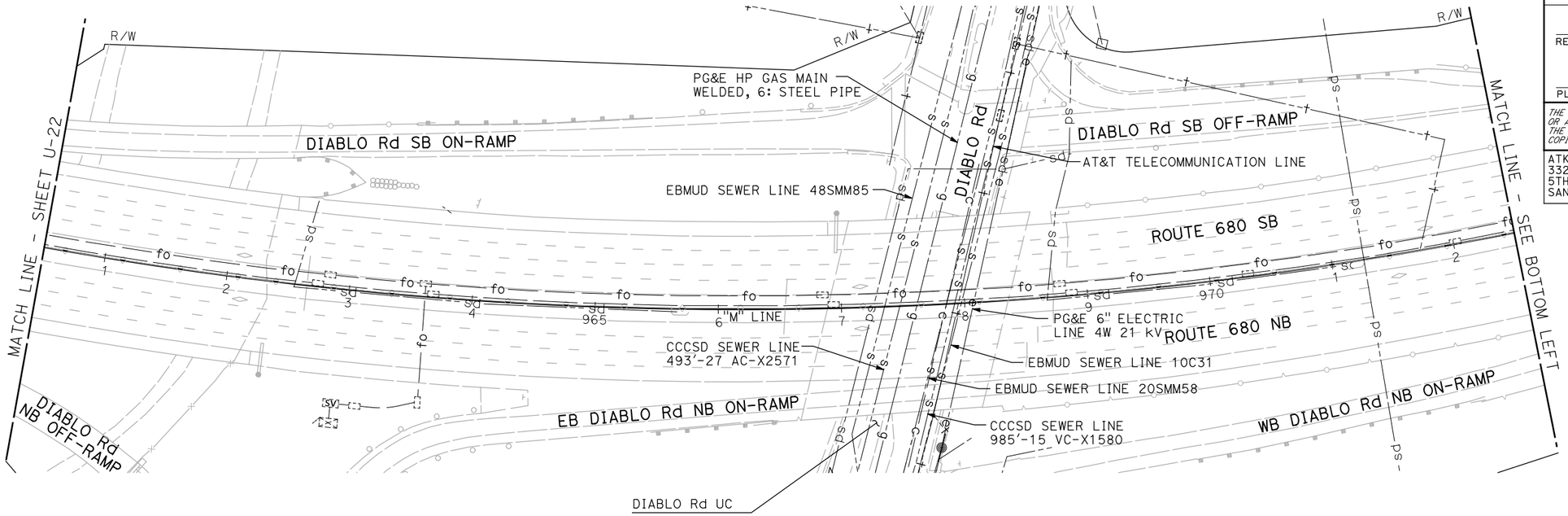
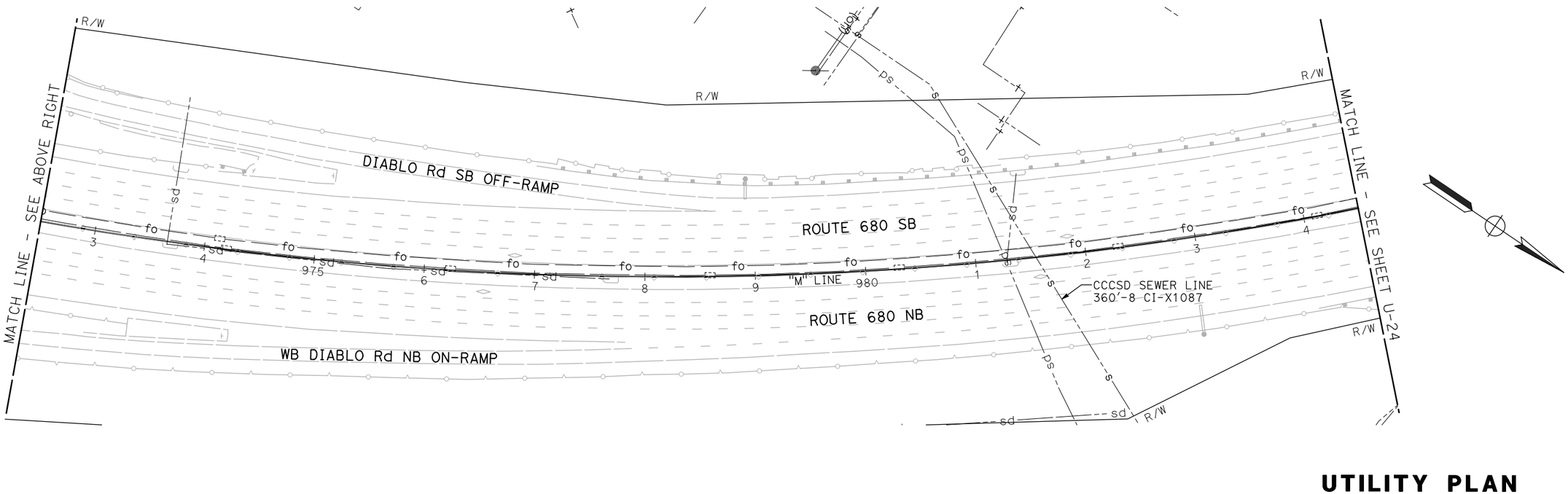
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

U-23

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/27/2015 TIME PLOTTED => 4:12:55 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	27	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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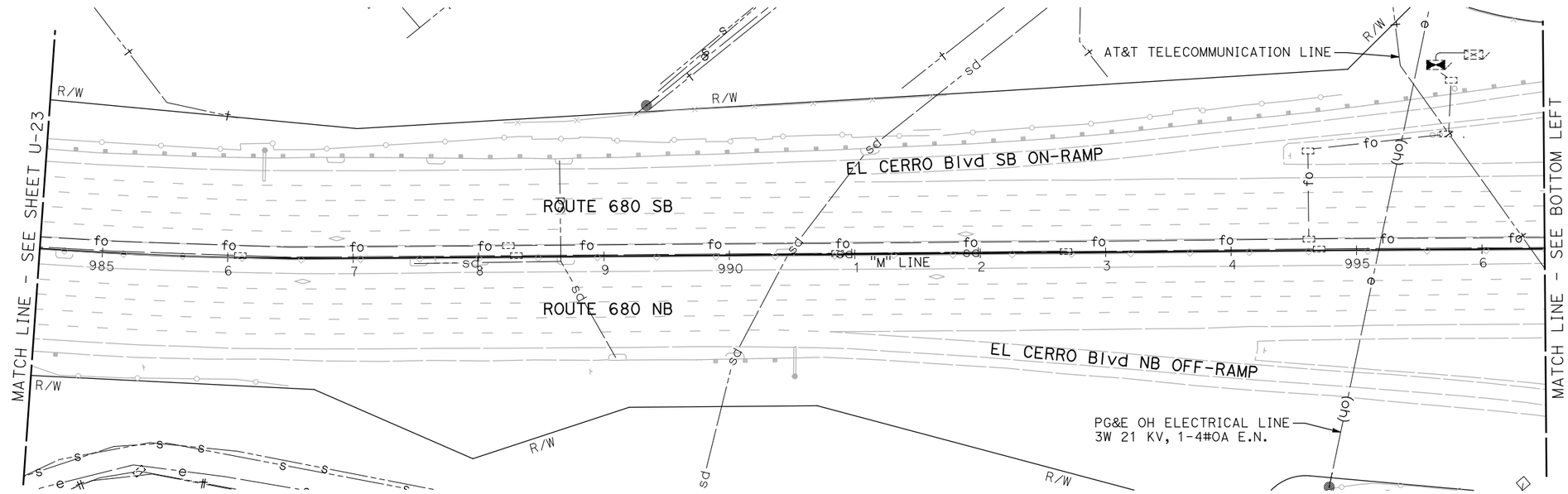
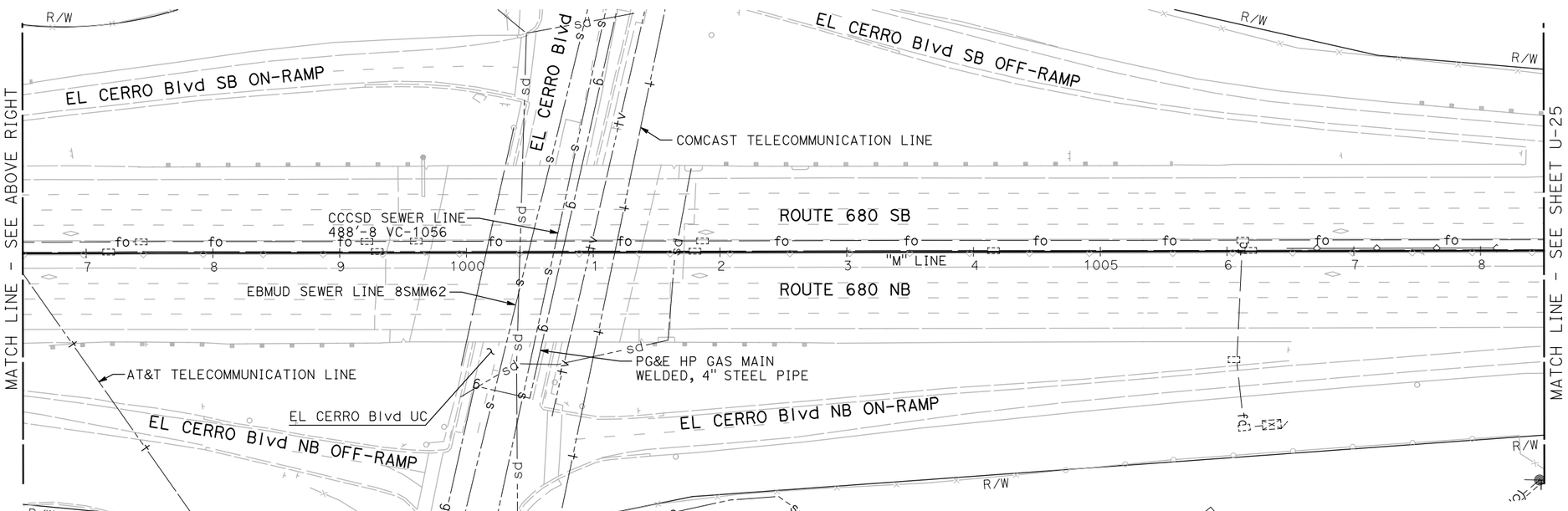
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-24

REVISED BY | DATE REVISED
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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/27/2015 | TIME PLOTTED => 4:12:59 PM

BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 | DGN FILE => 0414000490ka024.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	28	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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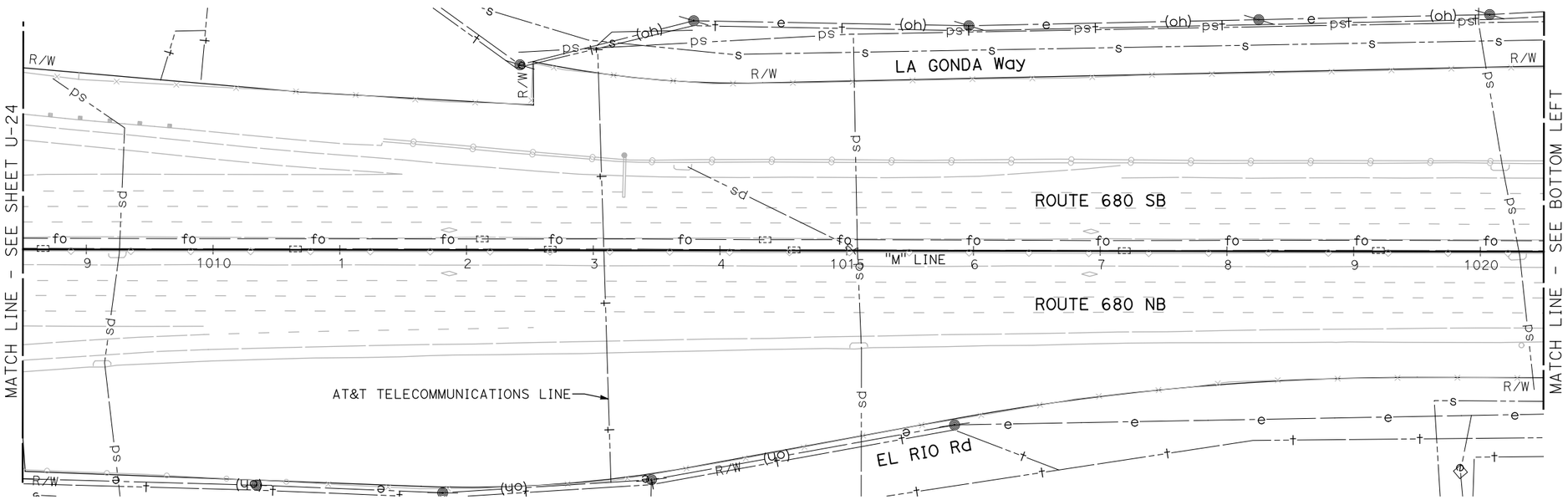
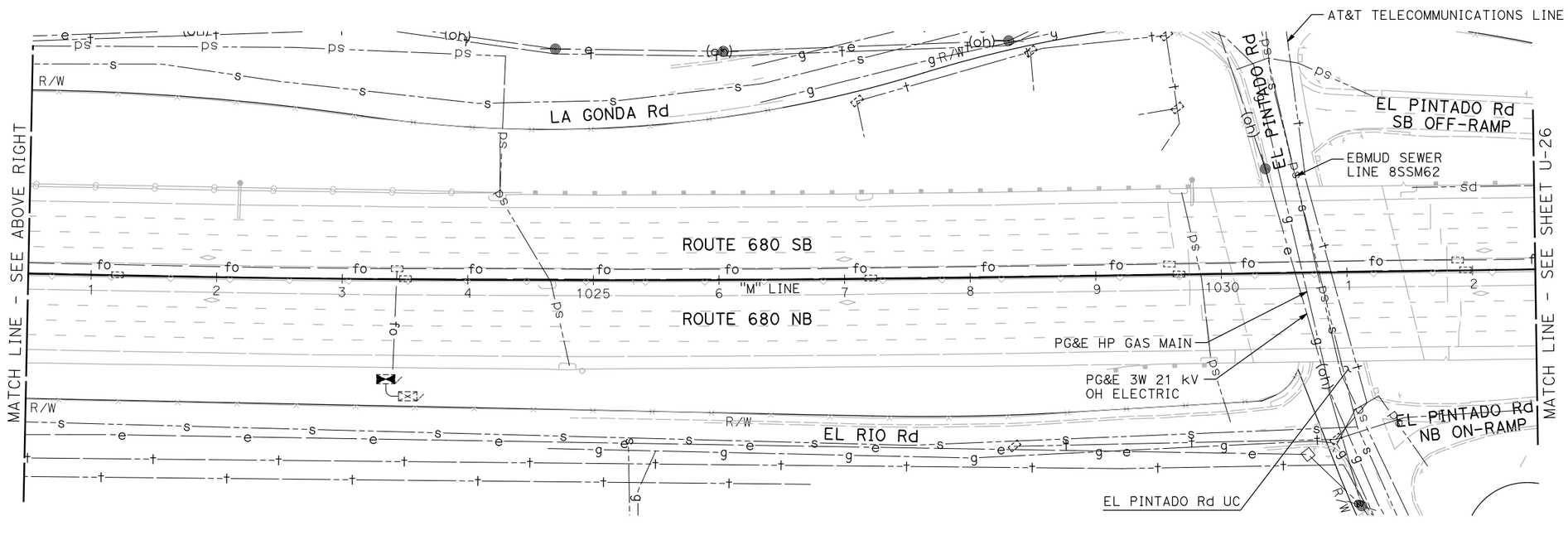
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-25

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/27/2015 TIME PLOTTED => 4:13:03 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	29	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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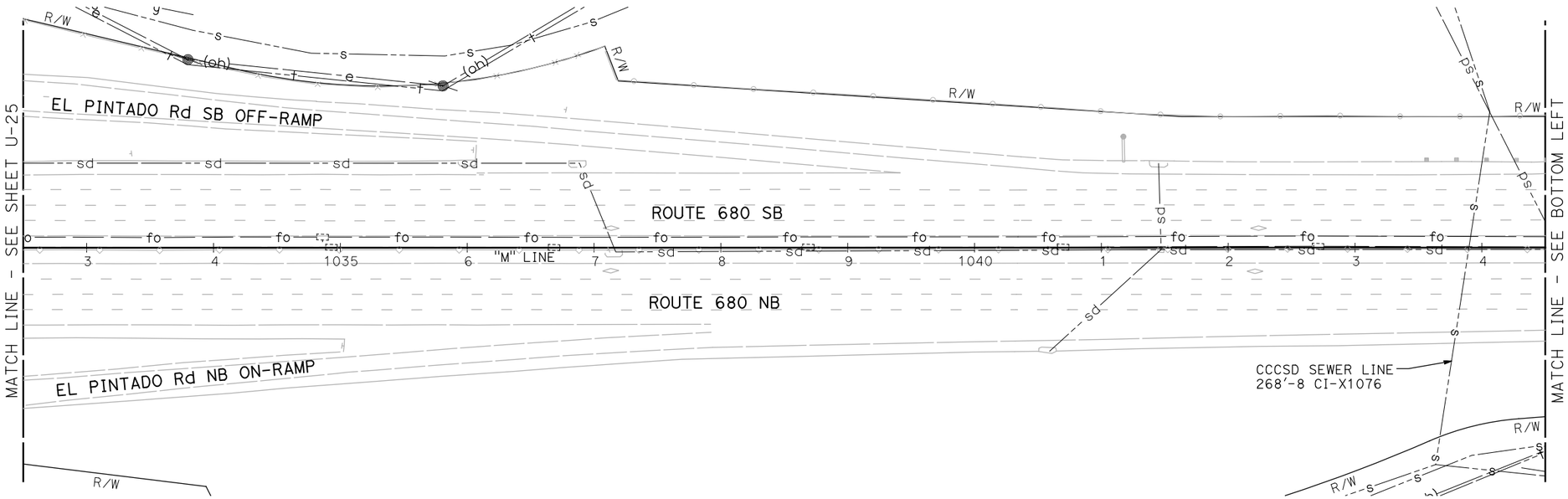
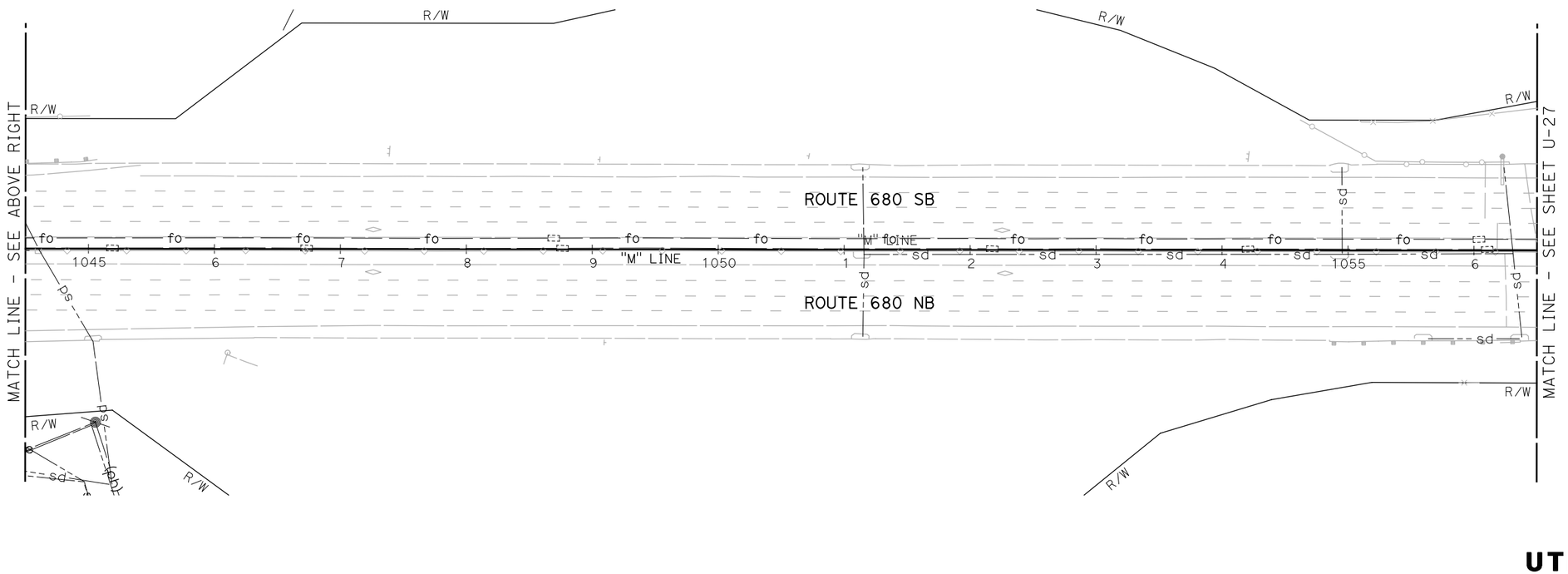
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-26

REVISED BY | DATE REVISED

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CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR | KAI CHAN

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/27/2015 | TIME PLOTTED => 4:13:07 PM

BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 | DGN FILE => 0414000490ka026.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	30	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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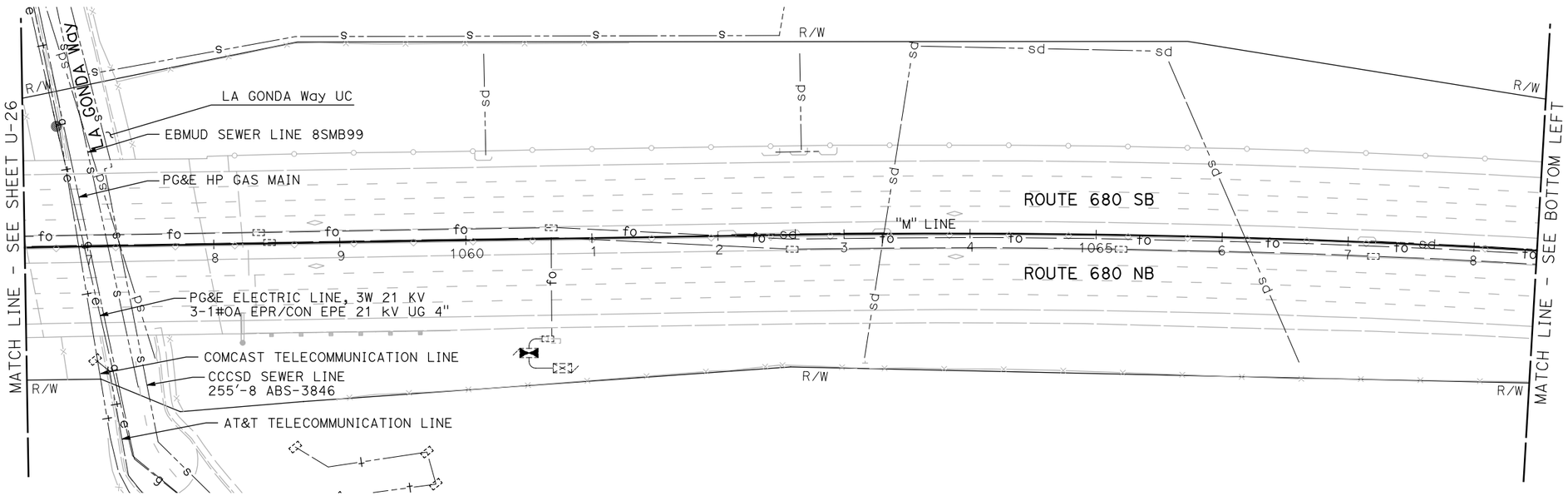
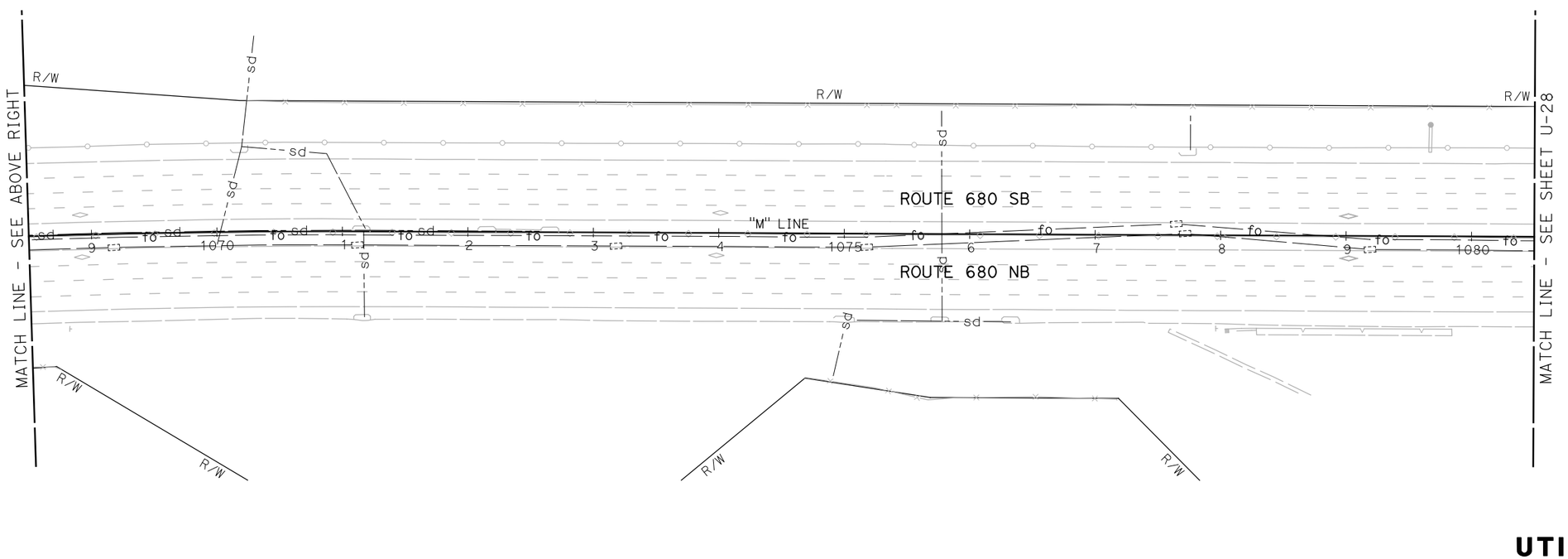
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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CONSULTANT FUNCTIONAL SUPERVISOR | KAI CHAN

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/27/2015 TIME PLOTTED => 4:13:11 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	31	175

REGISTERED CIVIL ENGINEER DATE

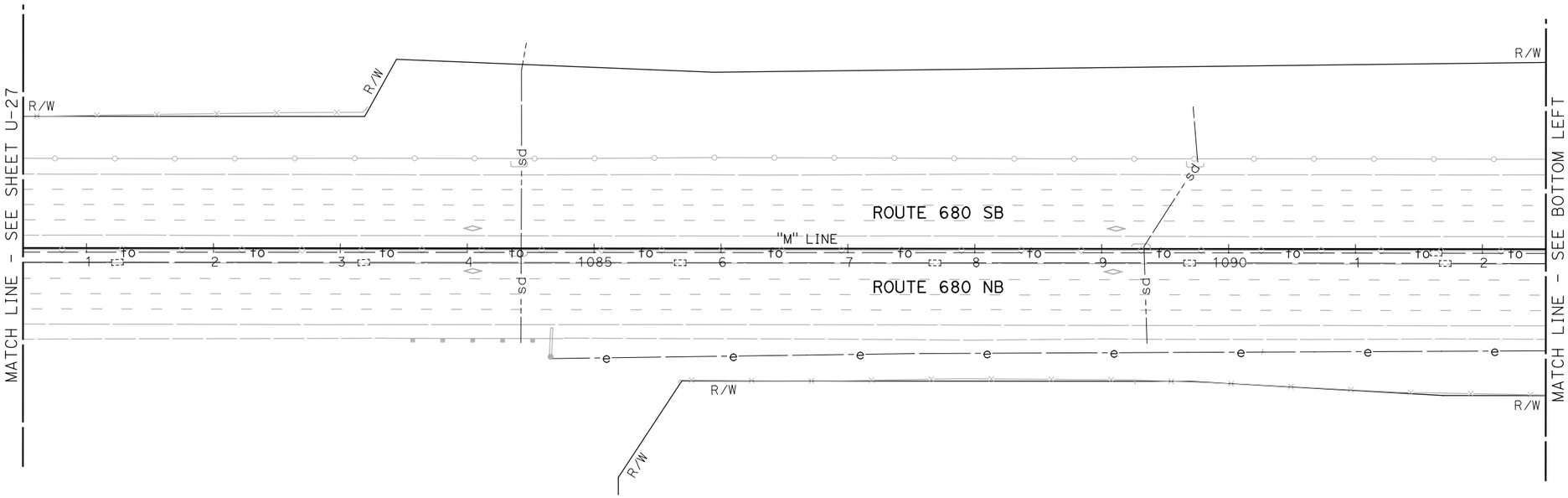
PLANS APPROVAL DATE

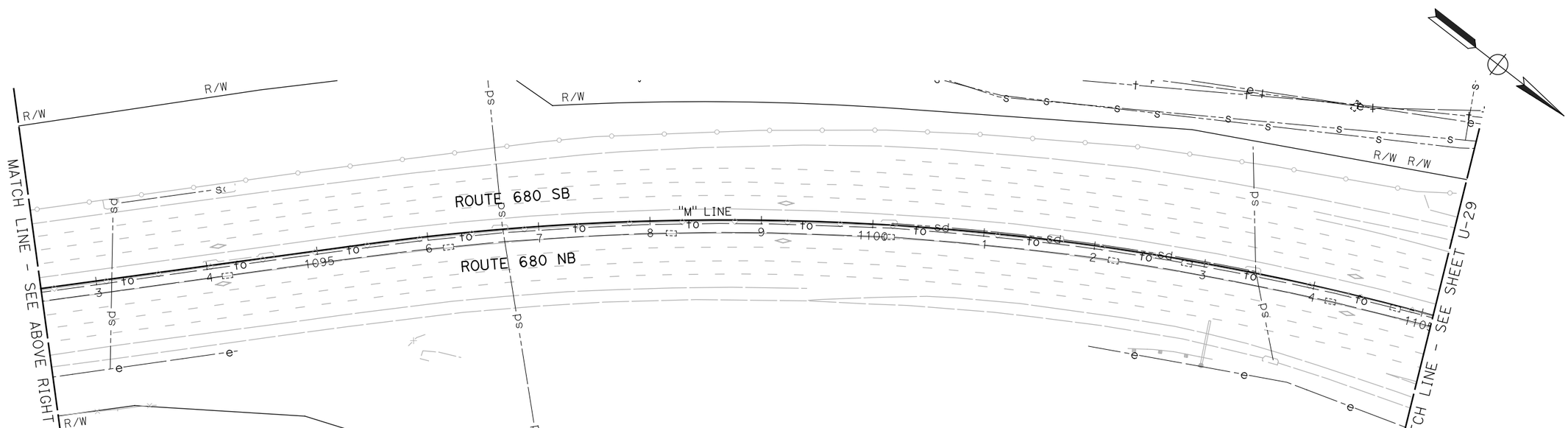
REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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.

ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

U-28

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

CALCULATED-DESIGNED BY: ARON ZEREZGHI

CHECKED BY: NATHAN COPE

REVISED BY

DATE REVISED

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LAST REVISION 00-00-00

DATE PLOTTED => 5/27/2015
TIME PLOTTED => 4:13:15 PM

BORDER LAST REVISED 7/2/2010

USERNAME => ZERE2344
DGN FILE => 04140004900ka028.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0750

PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	32	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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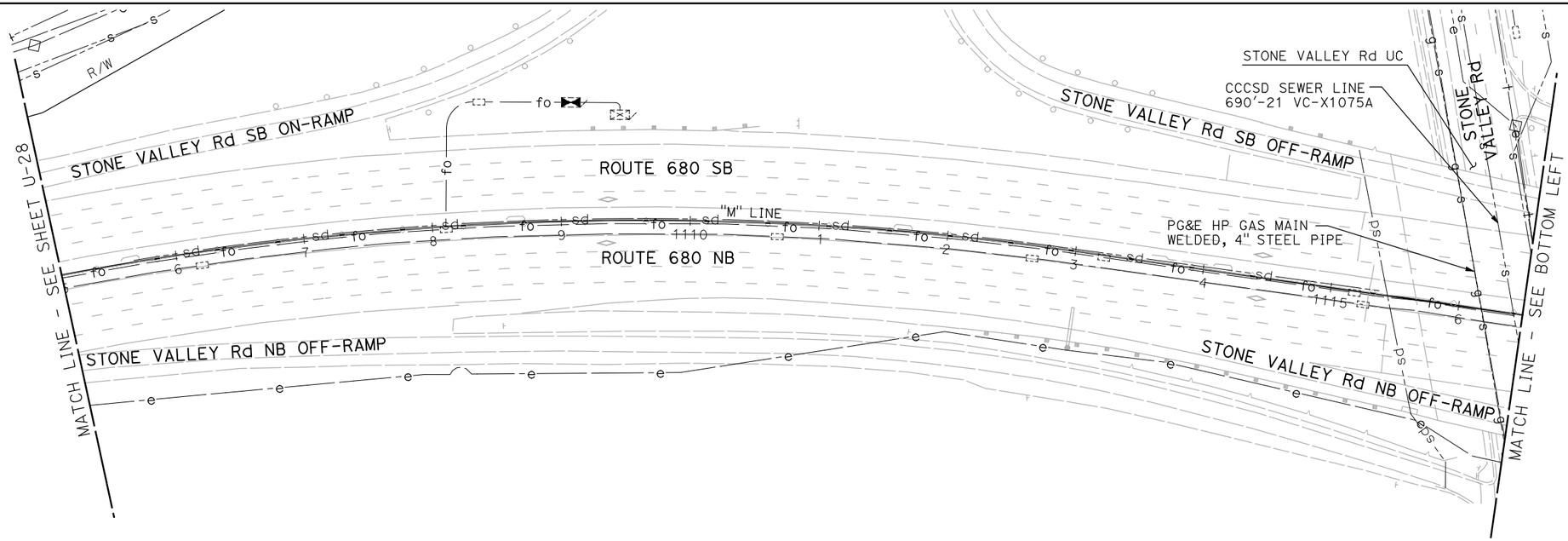
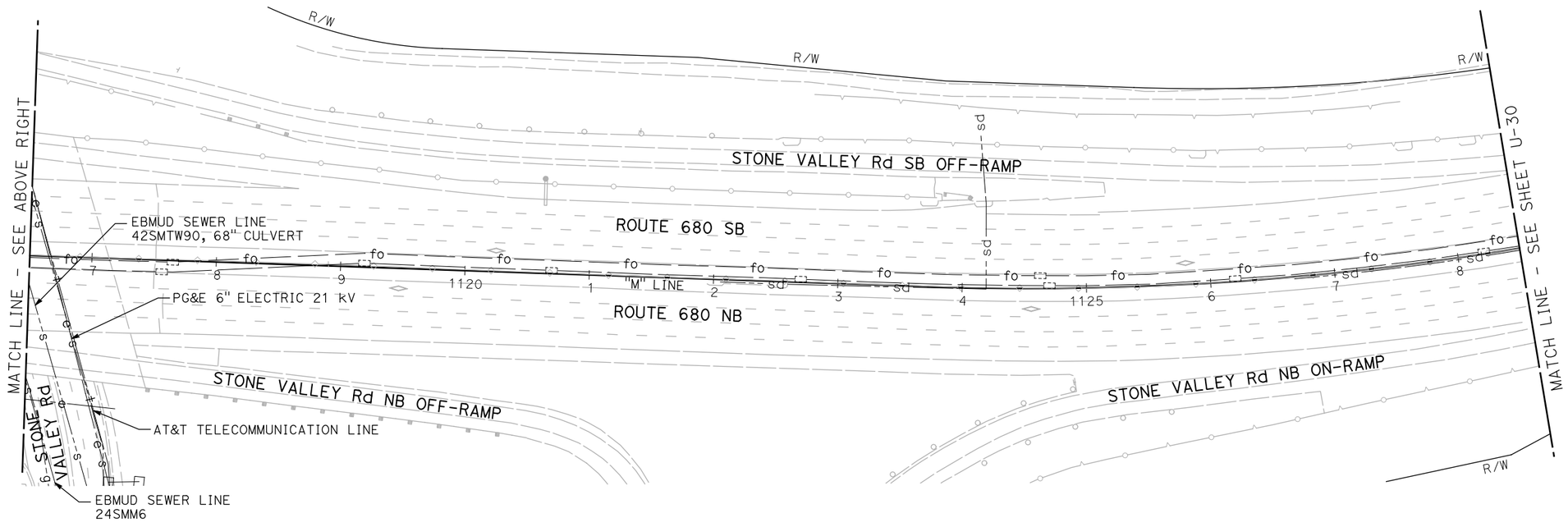
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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U-29

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 DGN FILE => 0414000490ka029.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	33	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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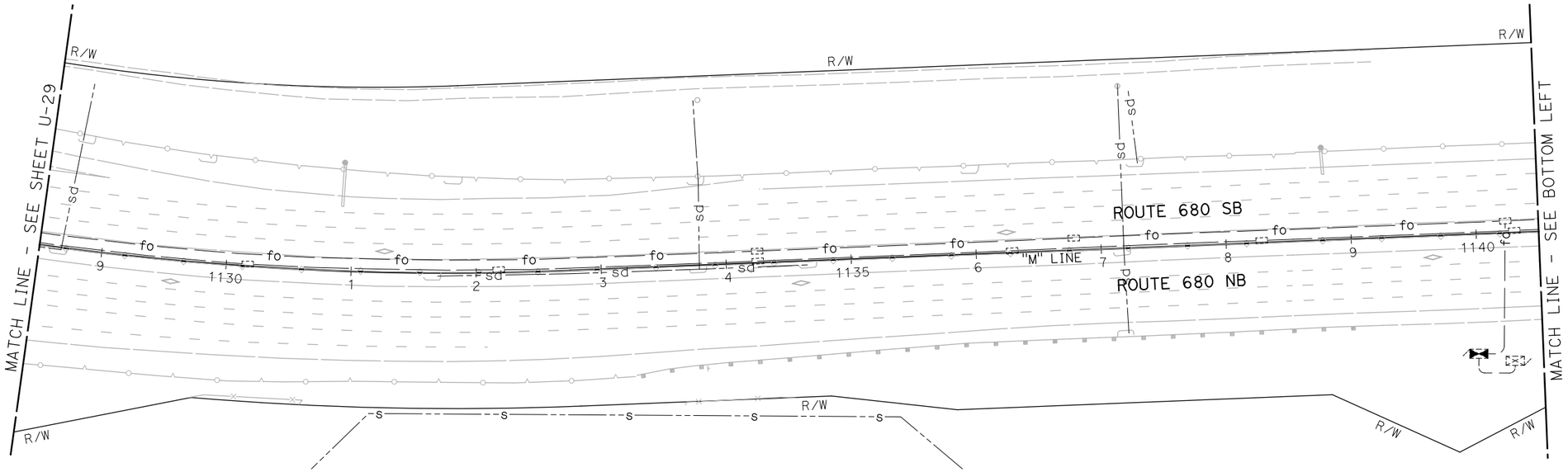
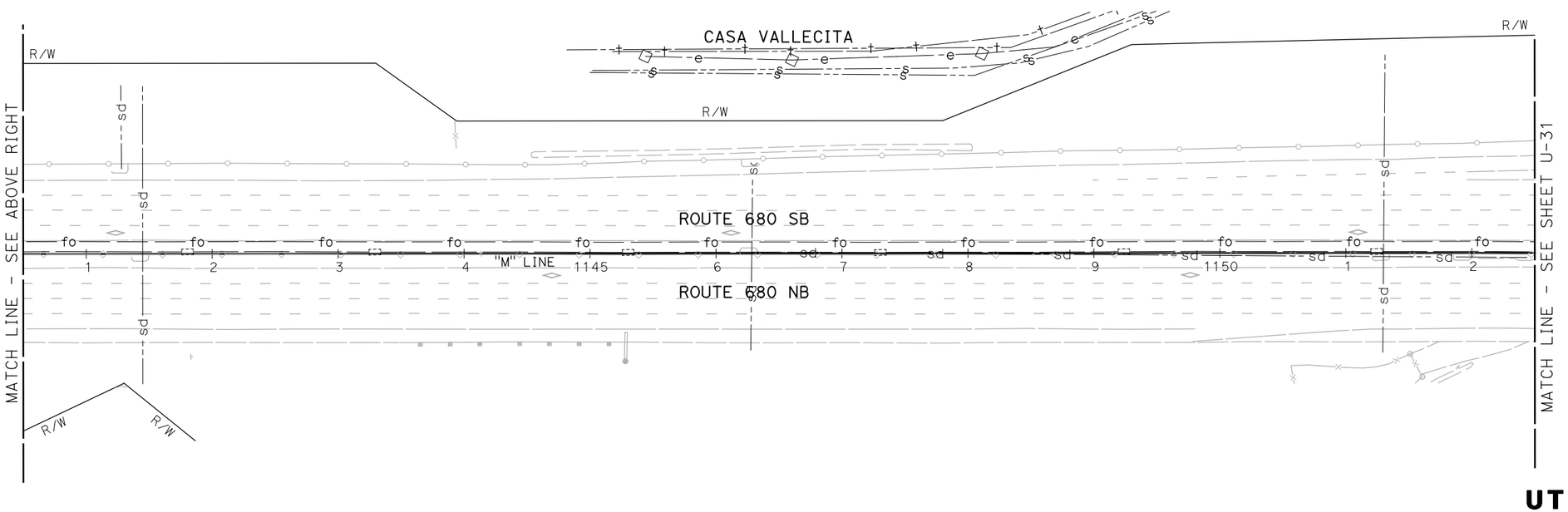
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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DATE PLOTTED => 5/27/2015
TIME PLOTTED => 4:13:24 PM

BORDER LAST REVISED 7/2/2010

USERNAME => ZERE2344
DGN FILE => 04140004490ka030.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0750

PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	34	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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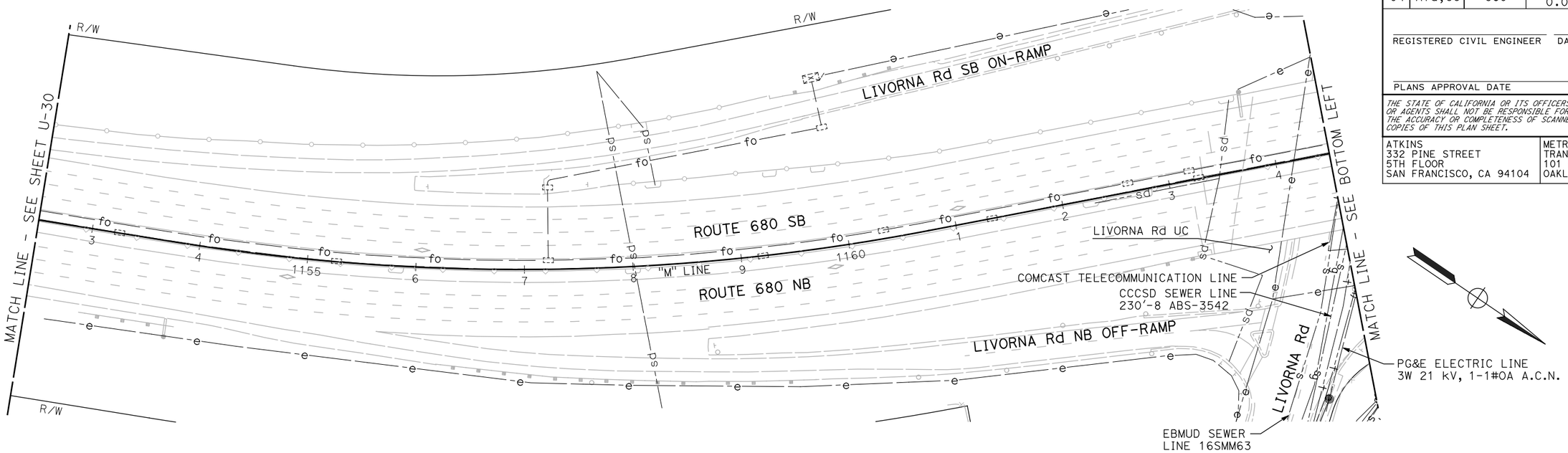

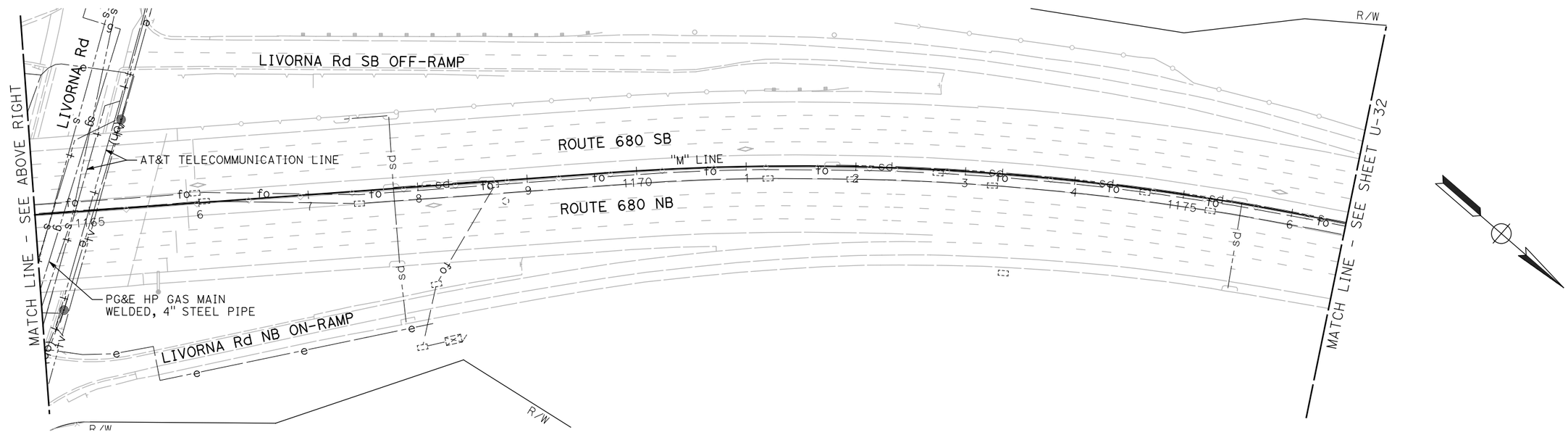

UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	35	175

REGISTERED CIVIL ENGINEER DATE

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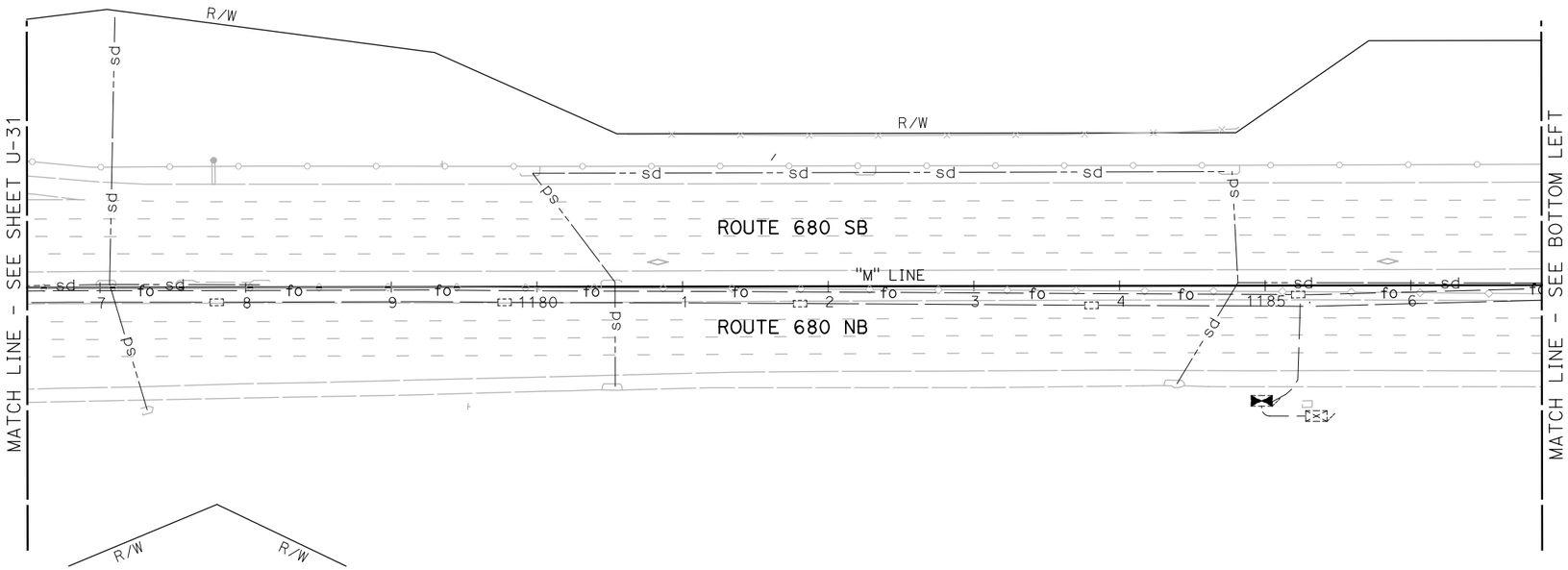

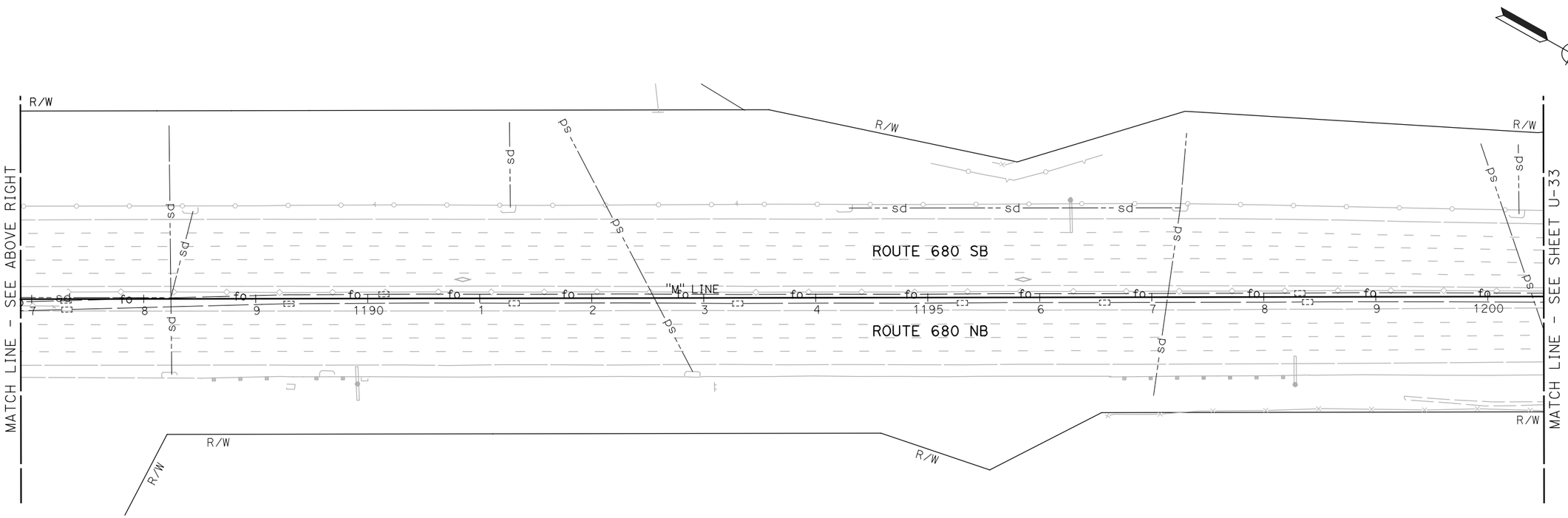

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UTILITY PLAN

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	36	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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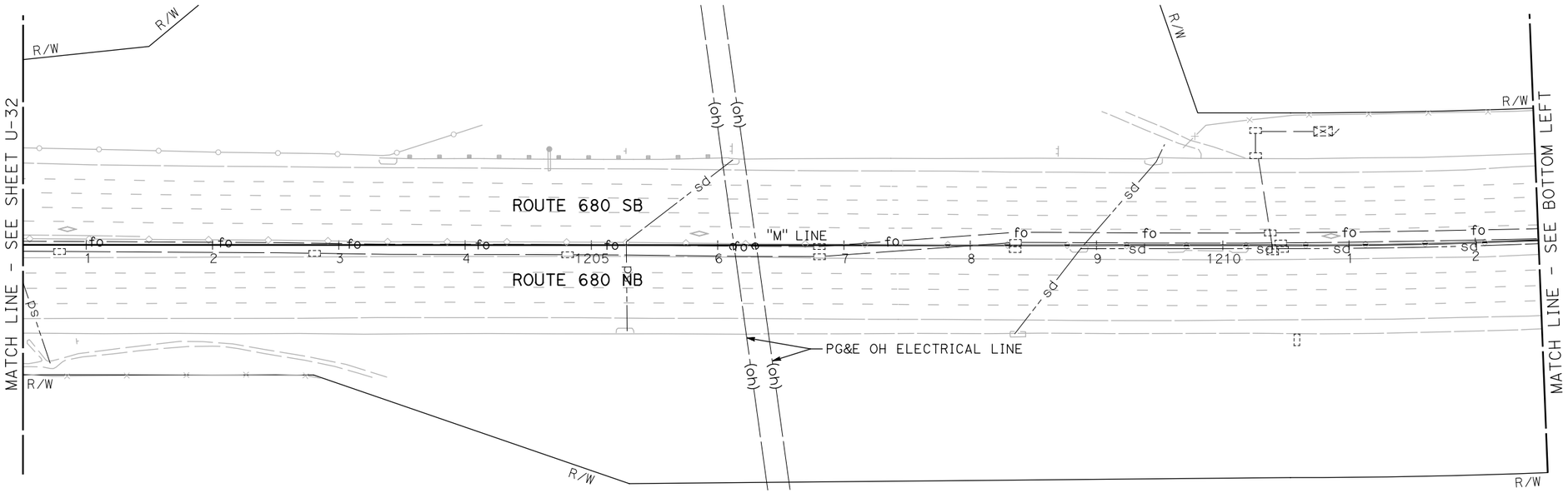

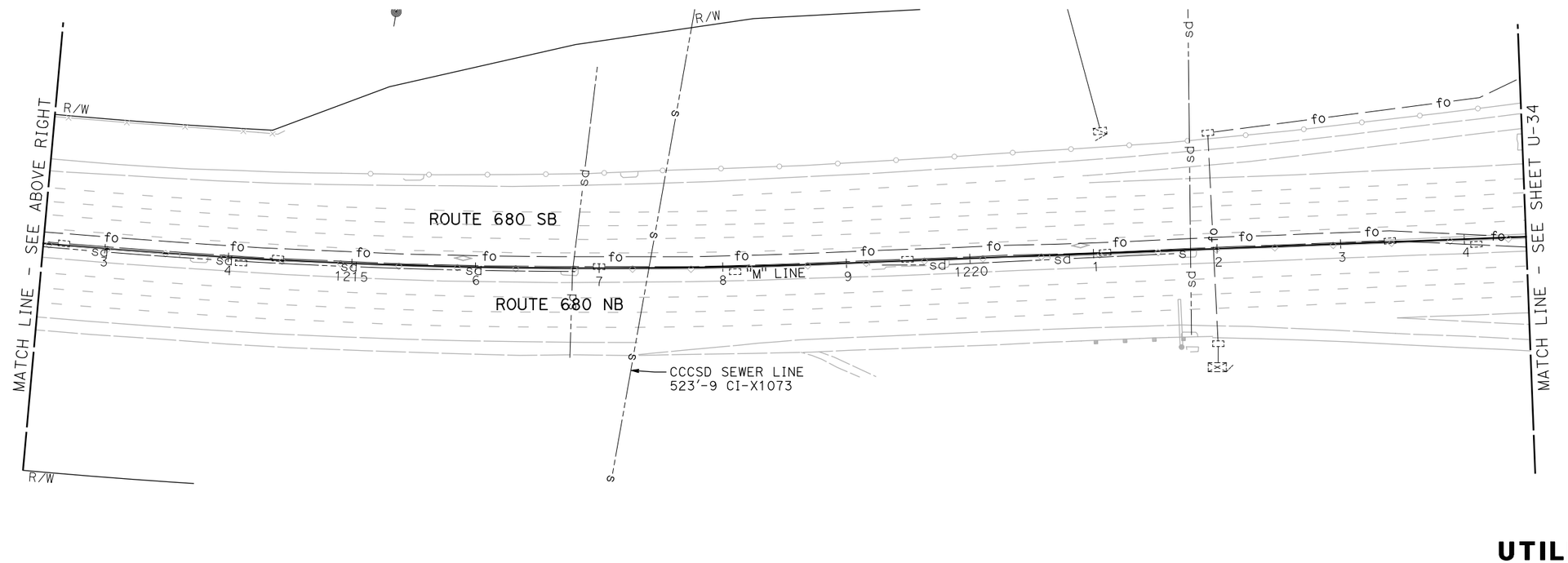

NOTE:

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UTILITY PLAN

SCALE: 1" = 50'

U-33

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	37	175

REGISTERED CIVIL ENGINEER DATE

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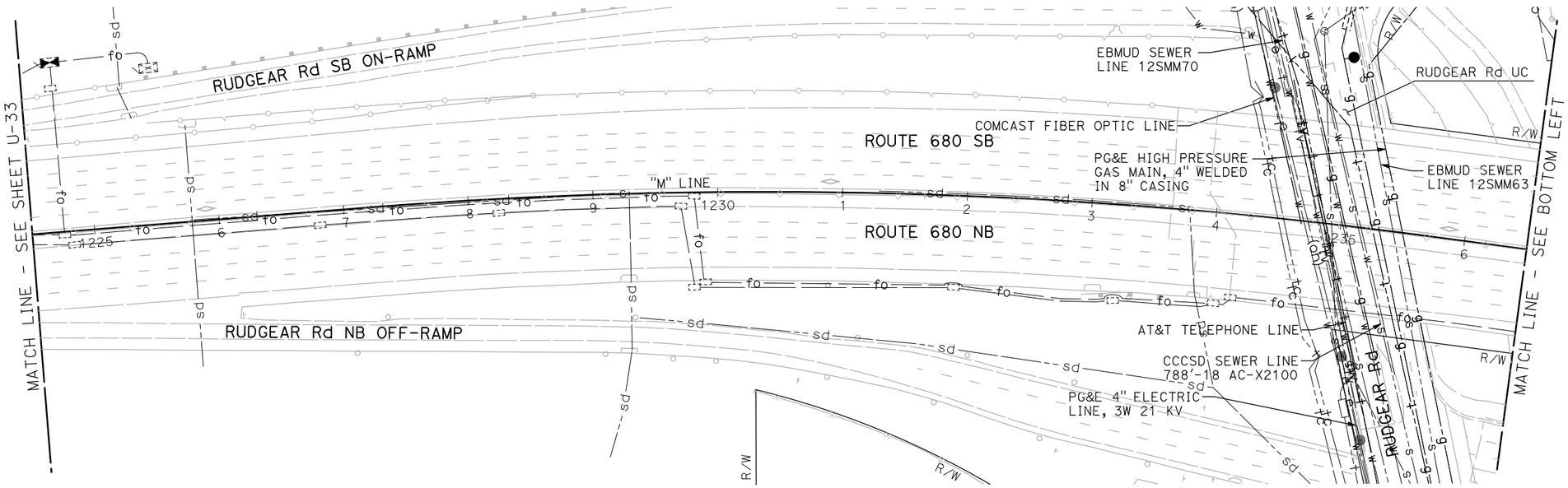

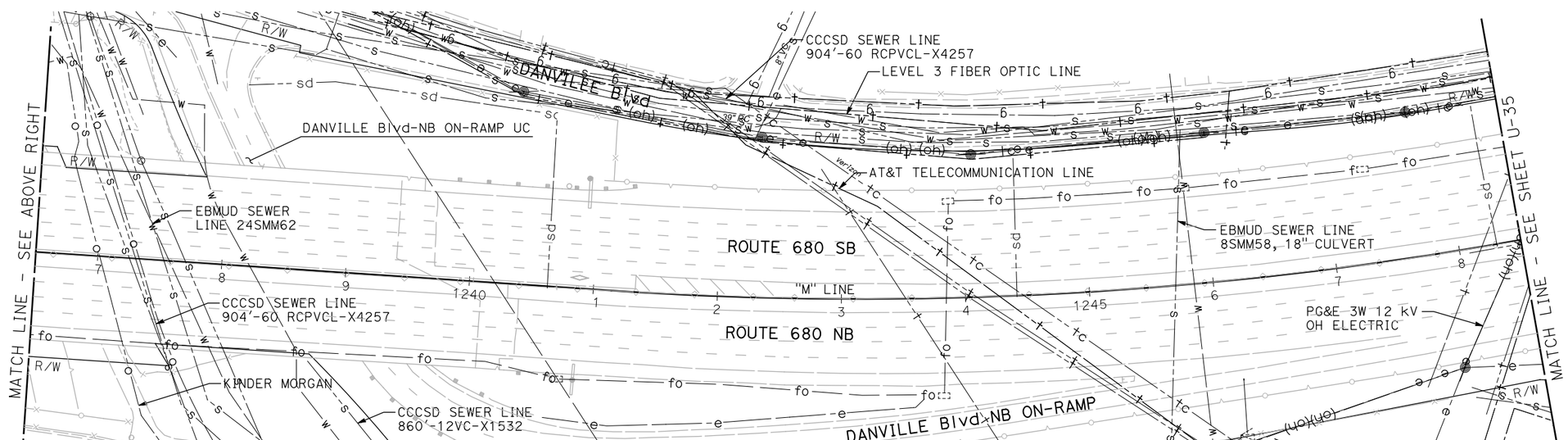

UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	38	175

REGISTERED CIVIL ENGINEER DATE

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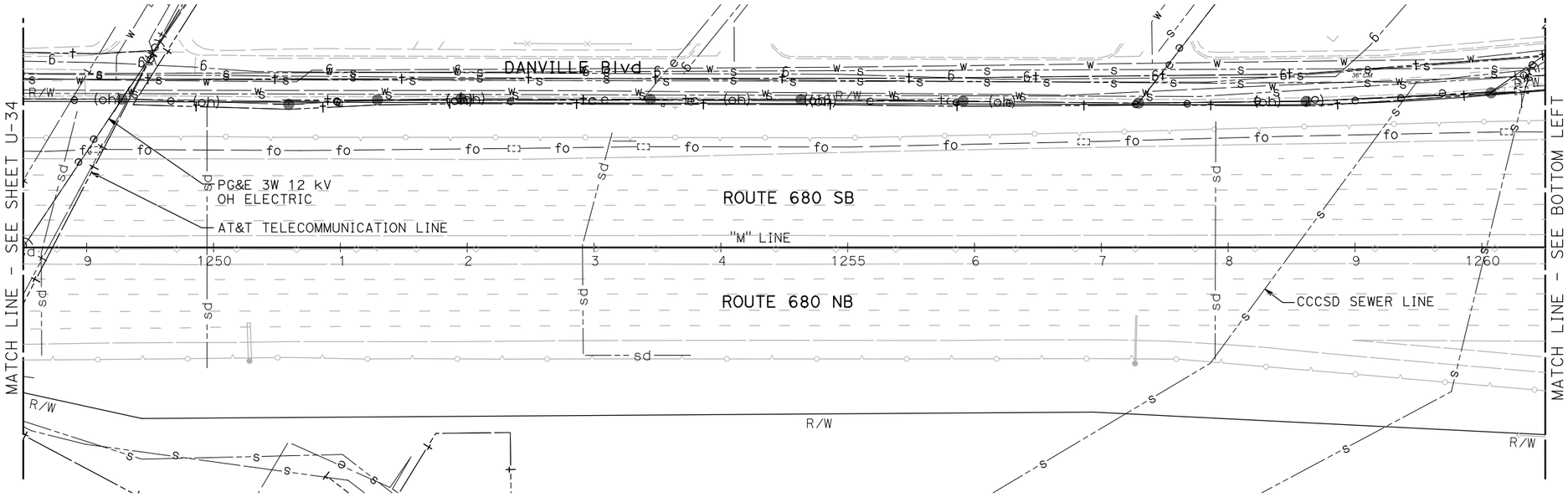
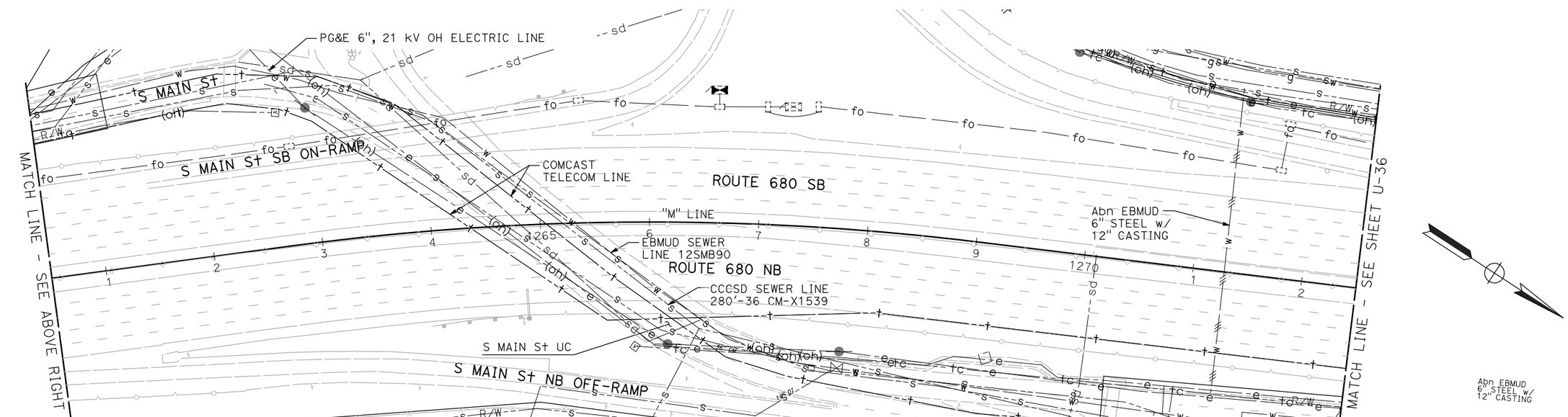
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	39	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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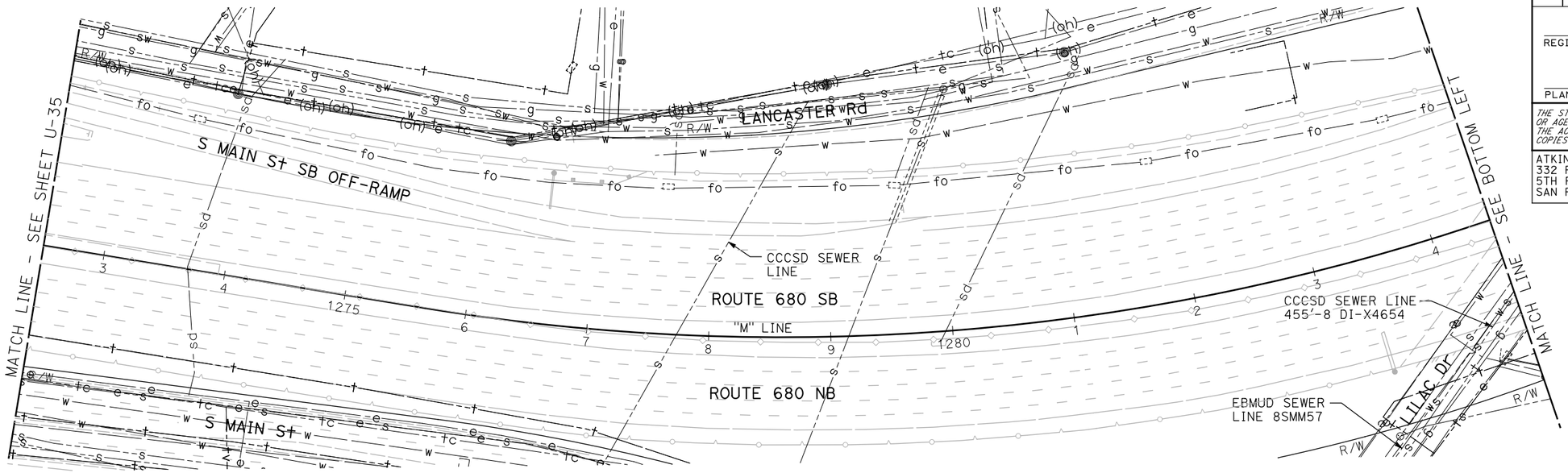

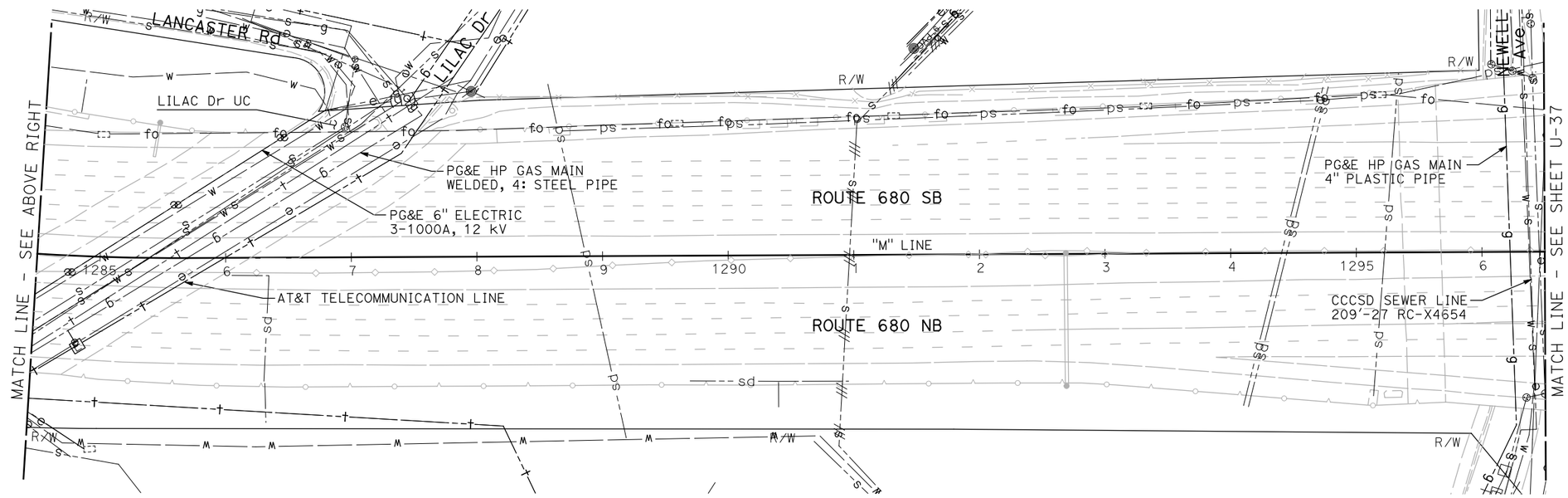

UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	40	175

REGISTERED CIVIL ENGINEER DATE

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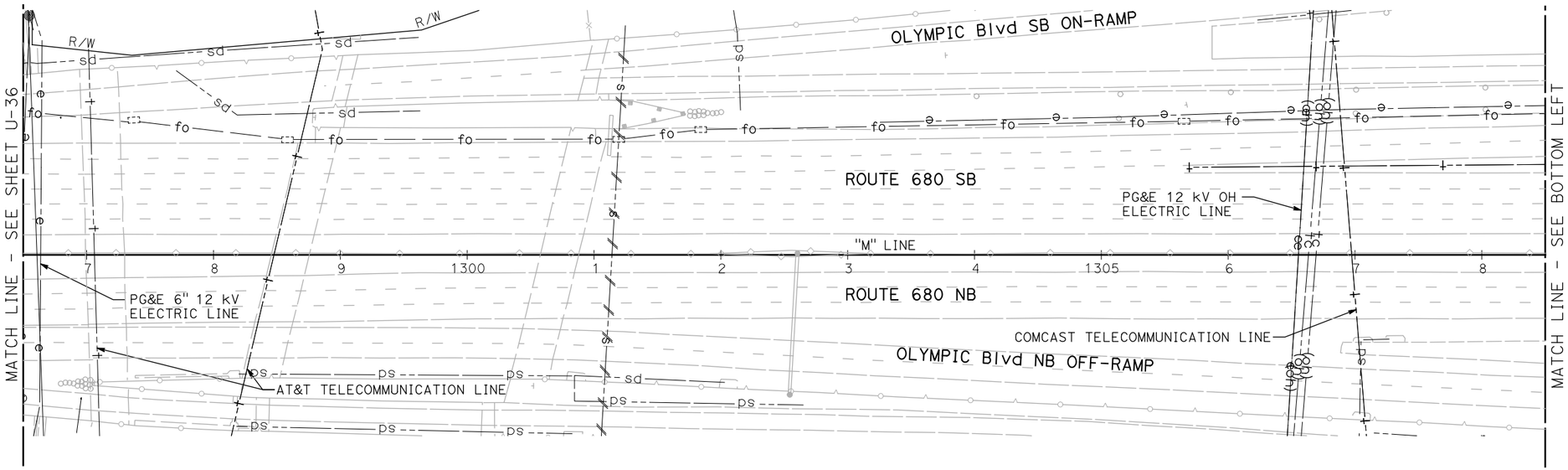

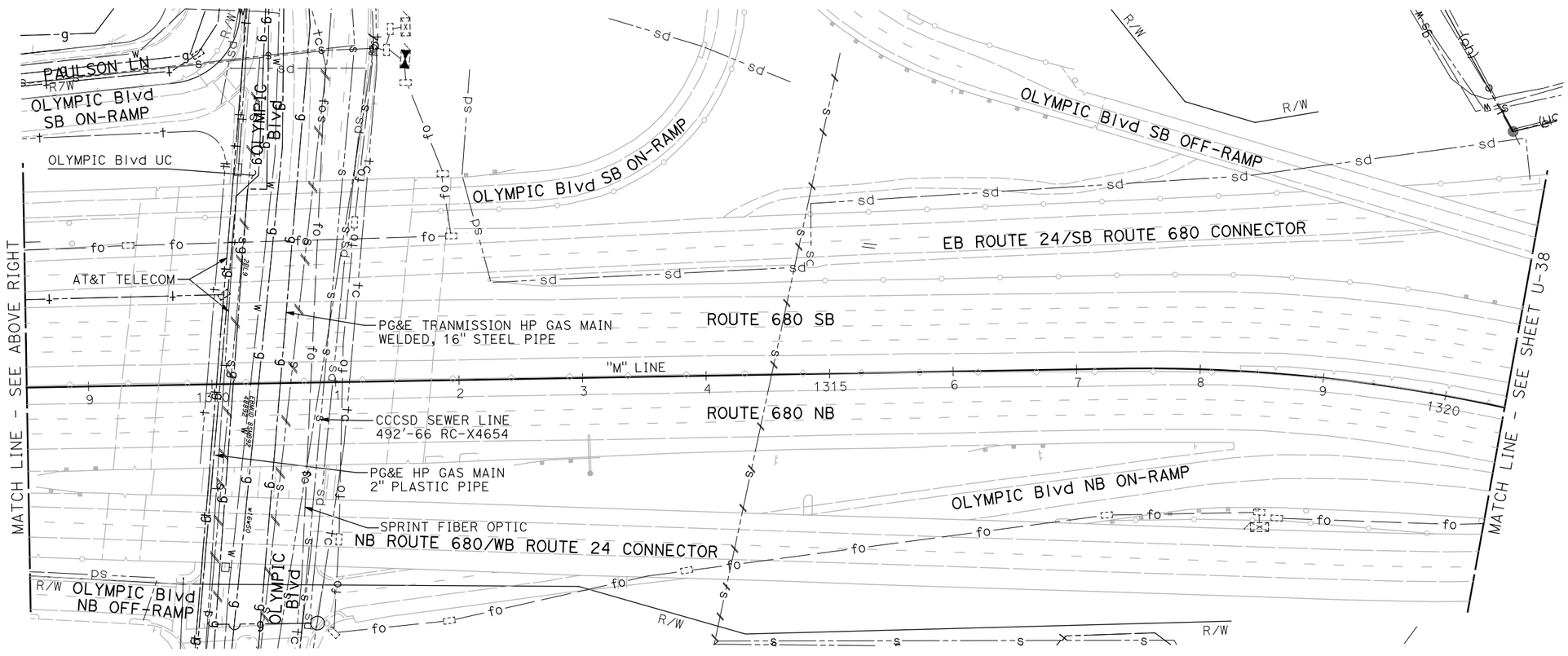

UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	41	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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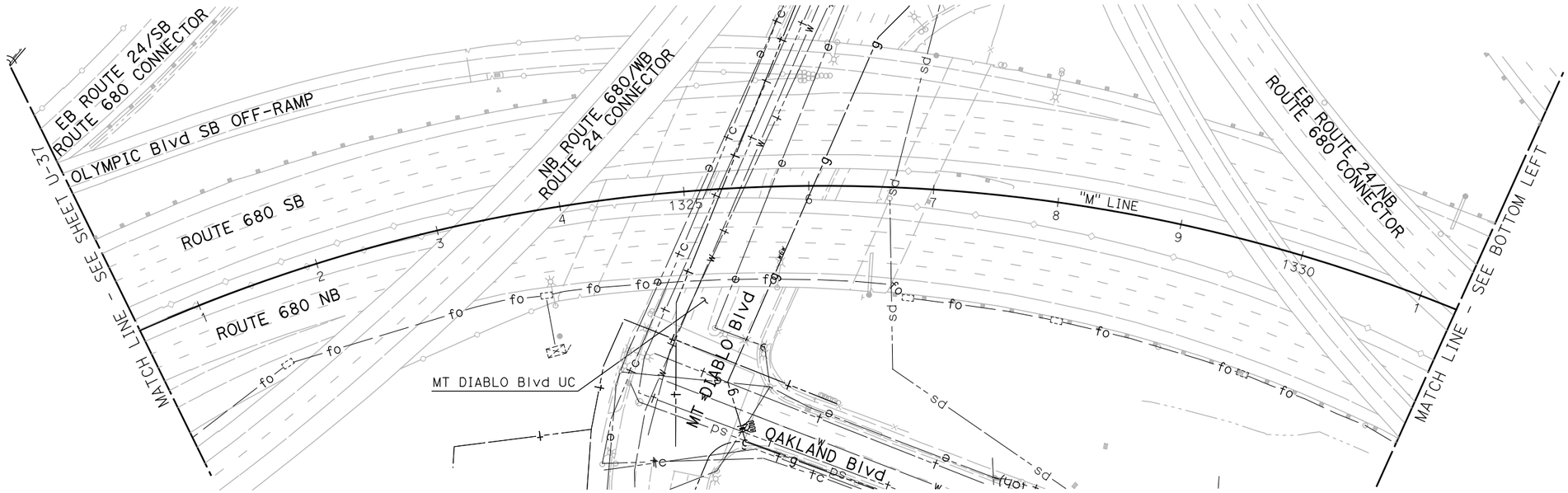
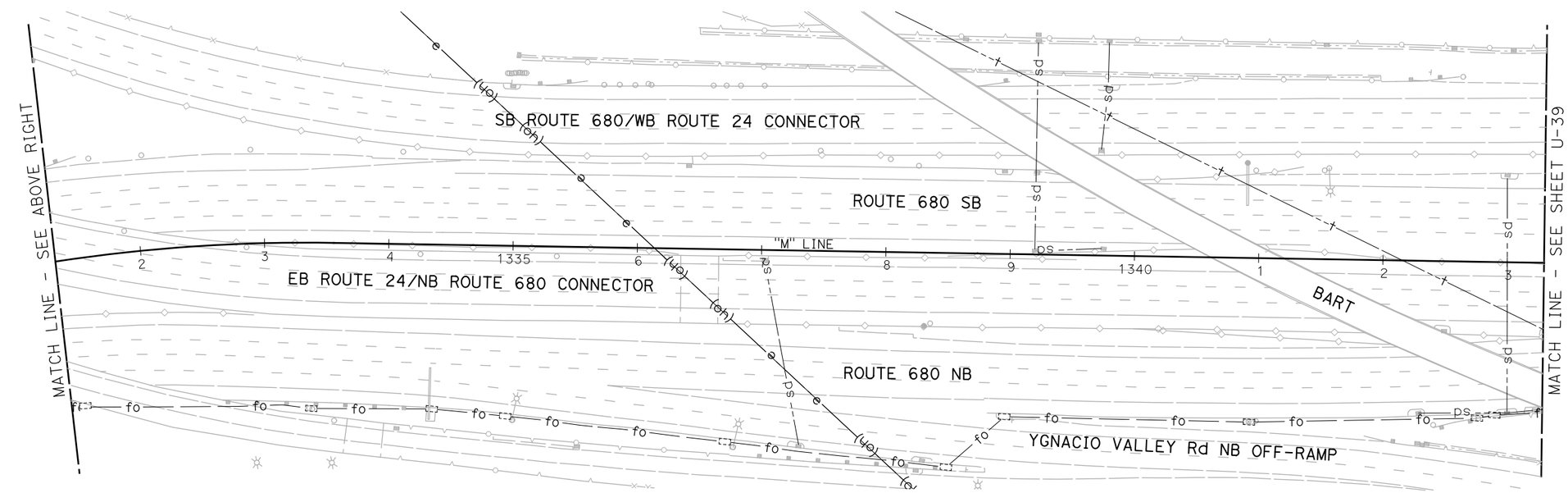
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	42	175

REGISTERED CIVIL ENGINEER DATE

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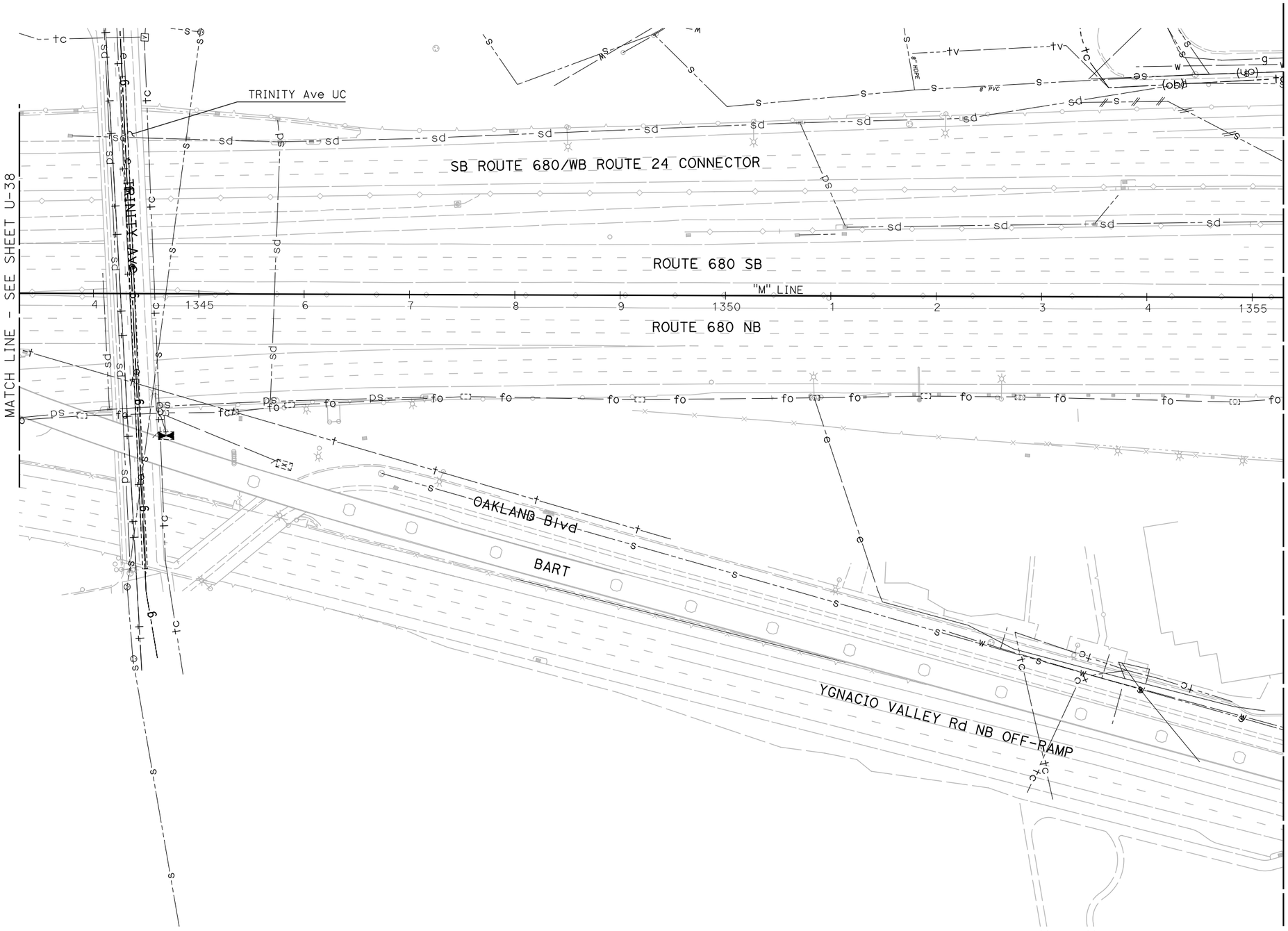
OAKLAND, CA 94607



NOTE:

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UTILITY PLAN

SCALE: 1" = 50'

U-39

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	43	175

REGISTERED CIVIL ENGINEER DATE

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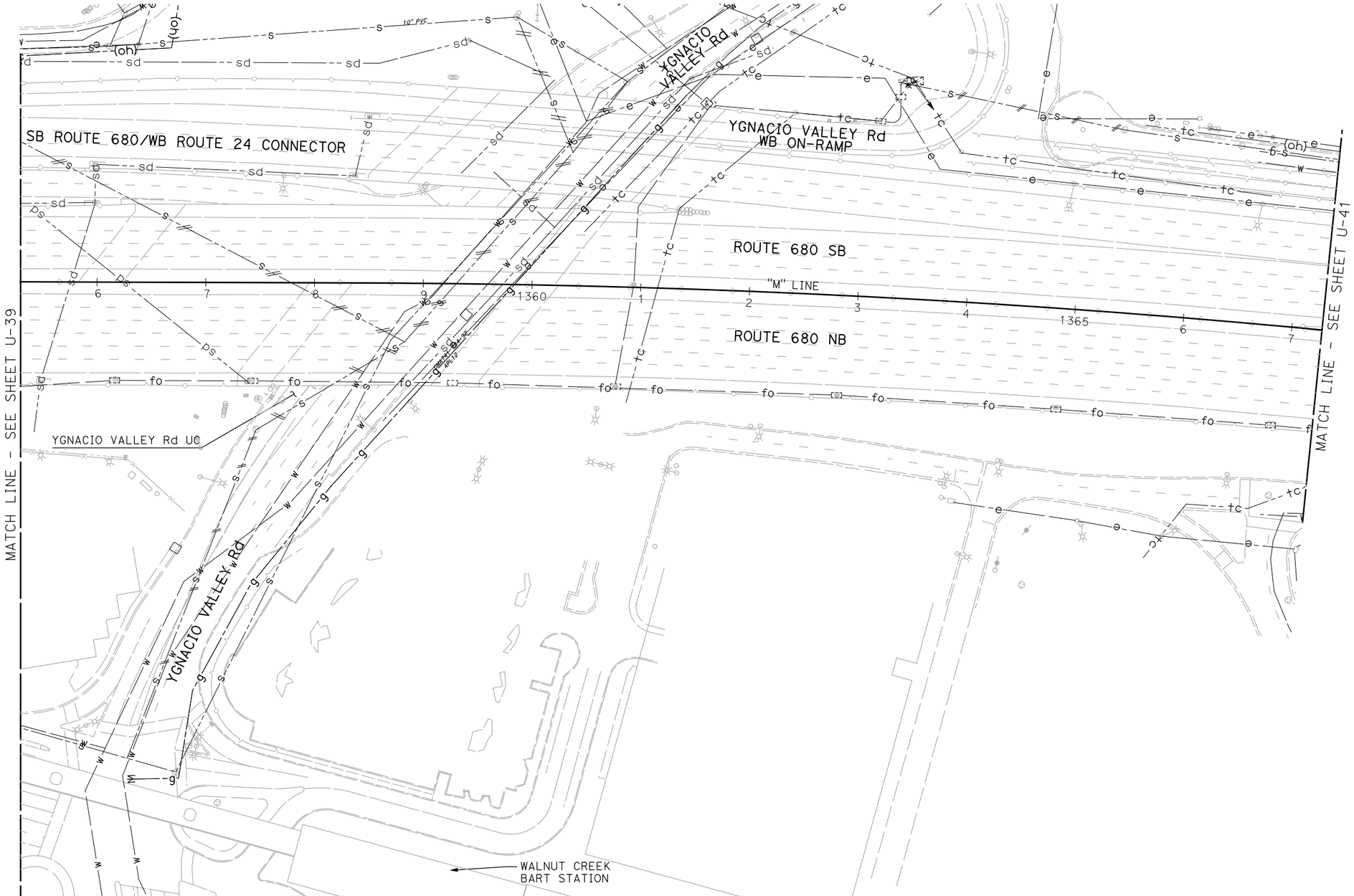
OAKLAND, CA 94607



NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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UTILITY PLAN

SCALE: 1" = 50'

U-40

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	44	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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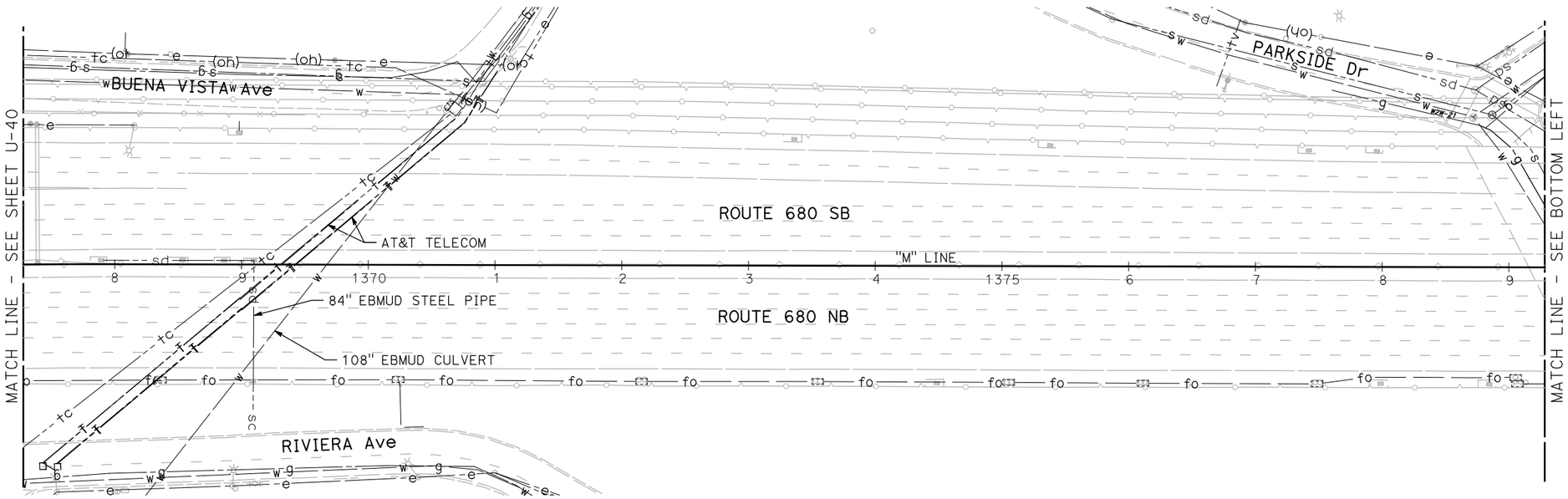

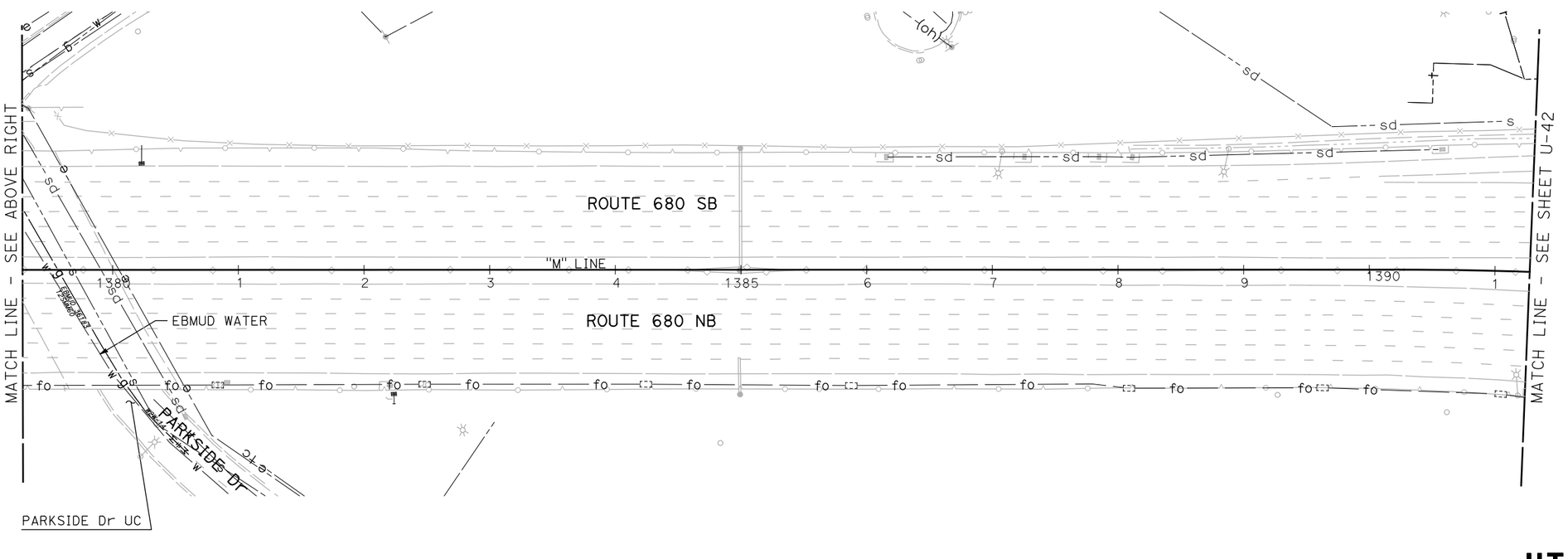

NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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UTILITY PLAN

SCALE: 1" = 50'

U-41

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 DGN FILE => 0414000490ka041.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	45	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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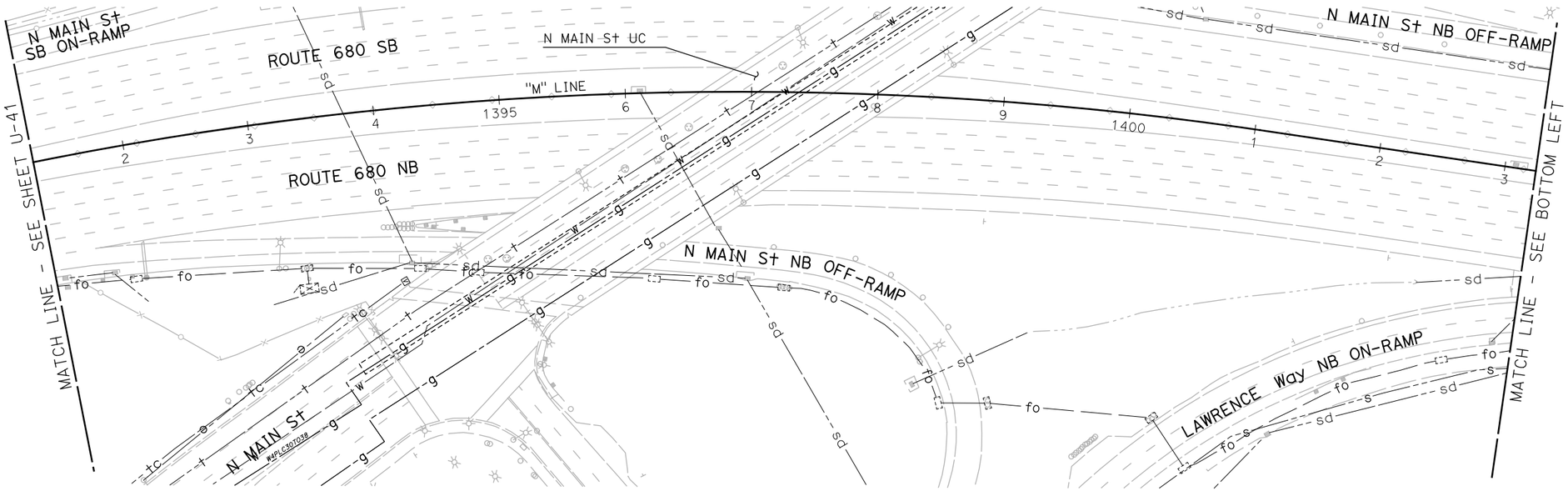
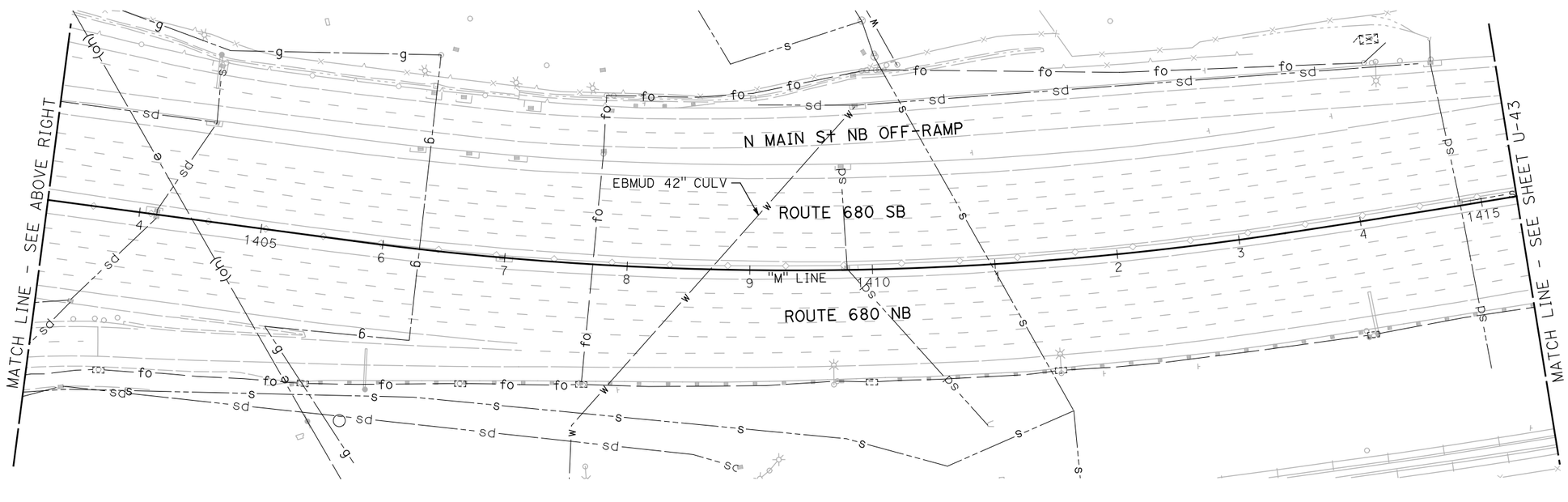
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 DGN FILE => 0414000490ka042.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	46	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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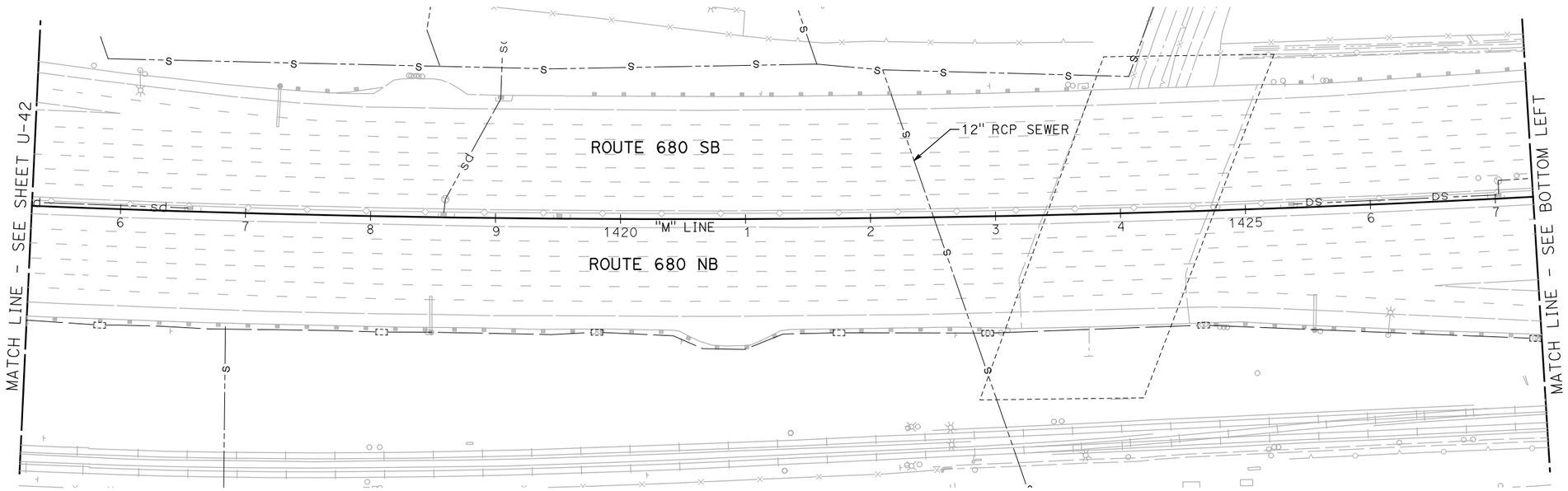

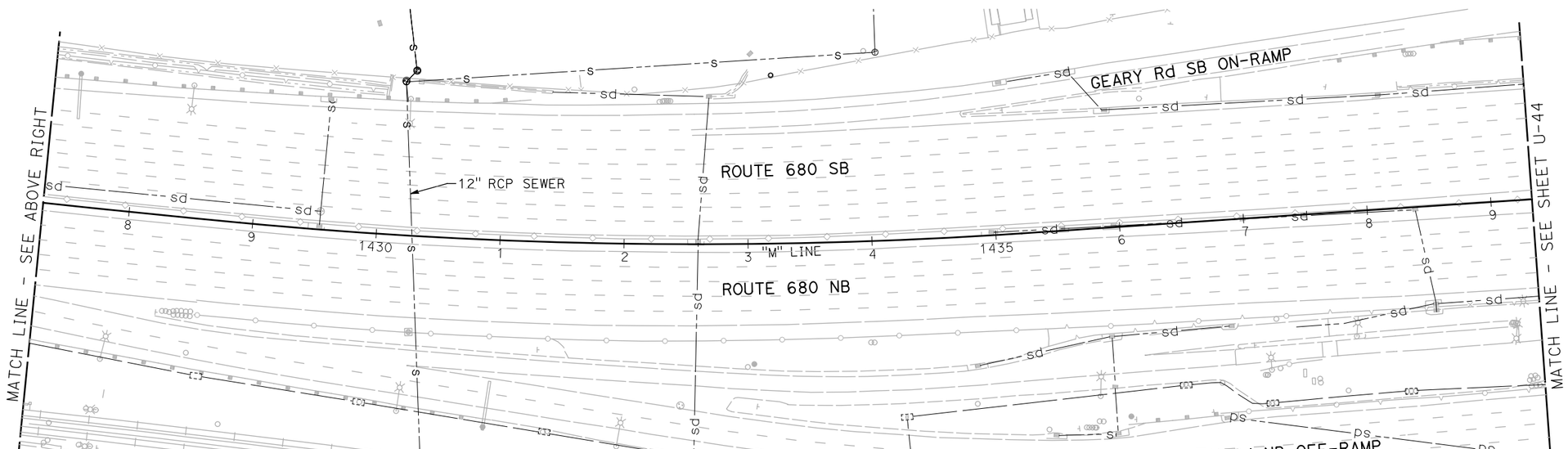

UTILITY PLAN

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	47	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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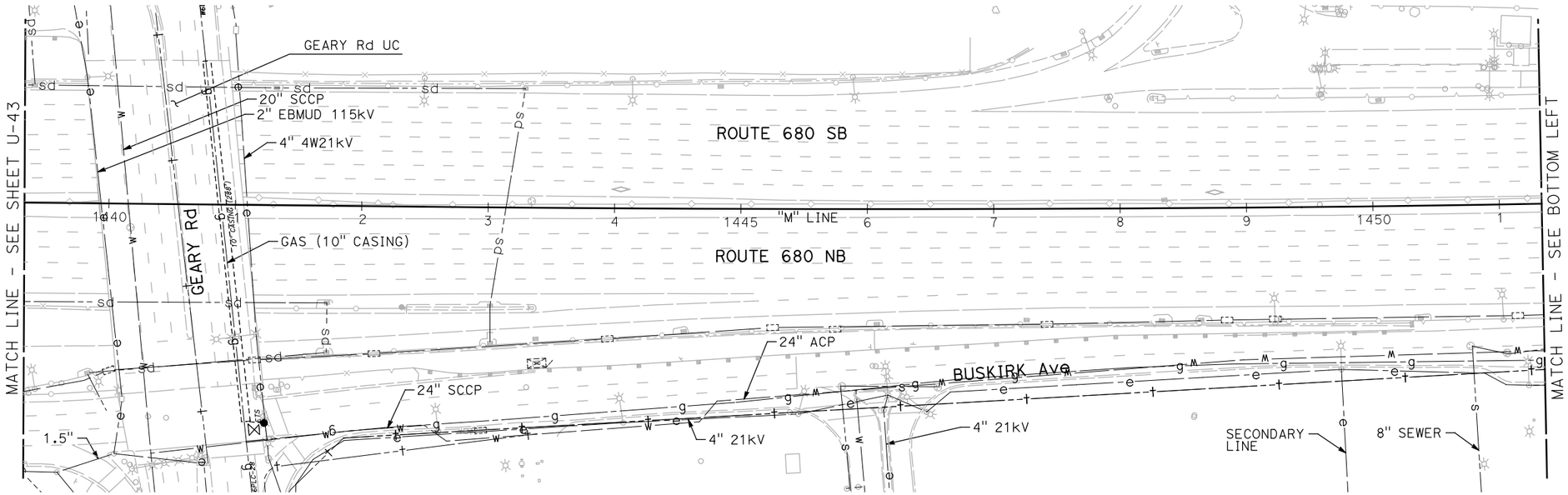

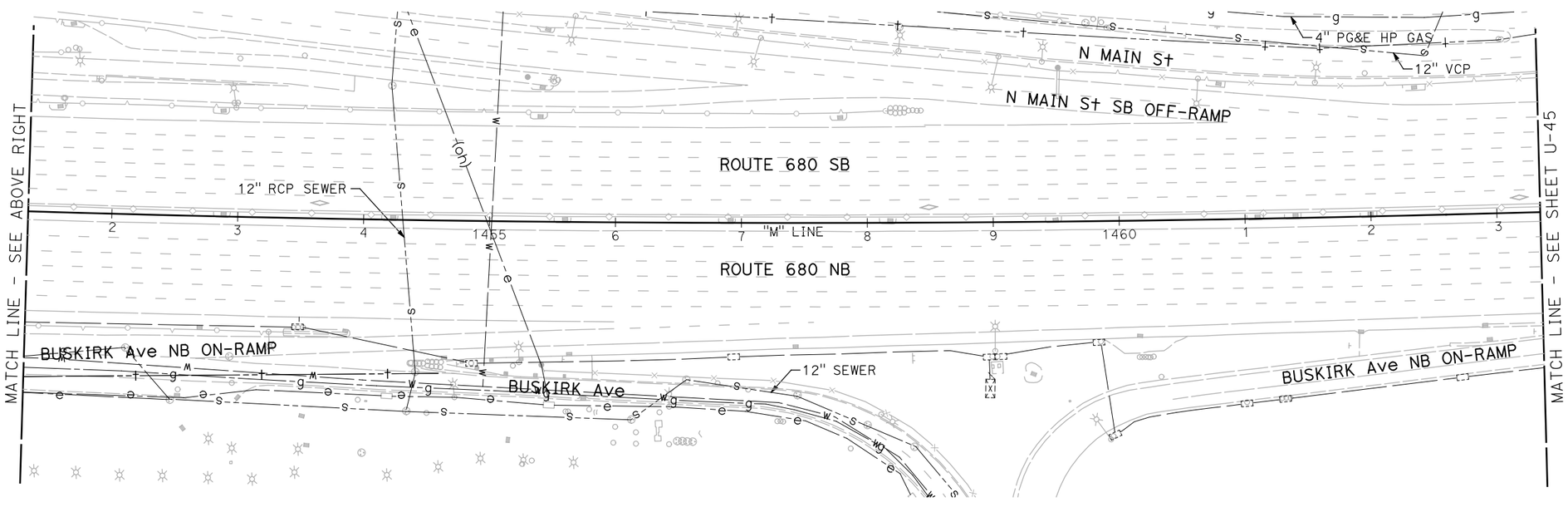

UTILITY PLAN

SCALE: 1" = 50'

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 DGN FILE => 0414000490ka044.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	48	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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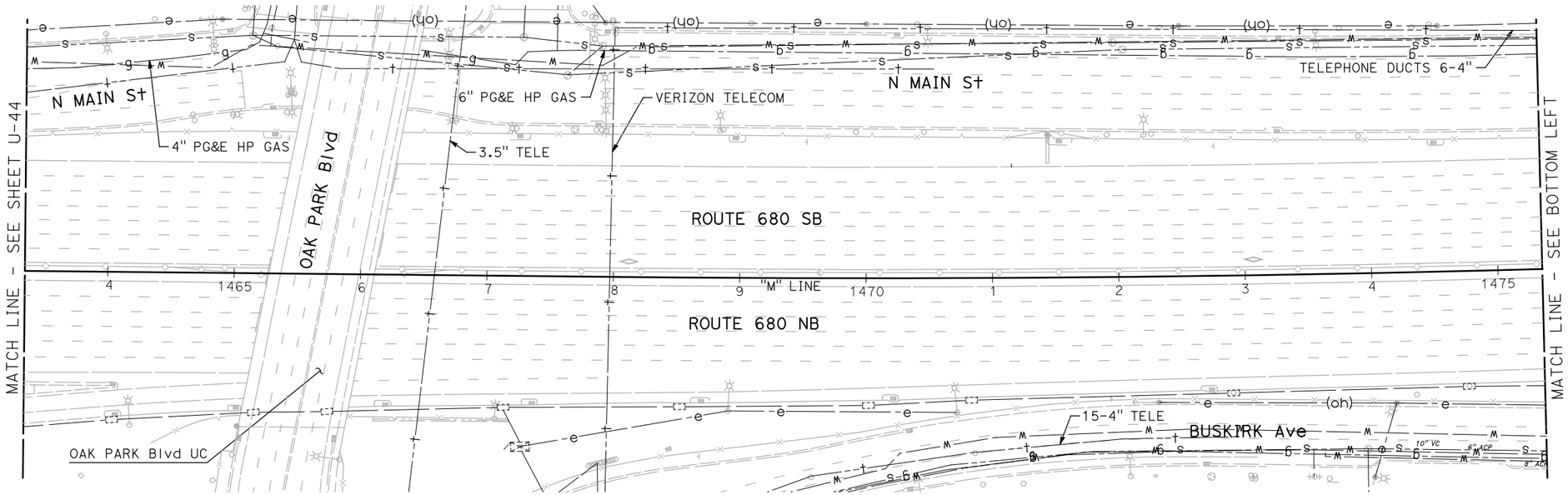
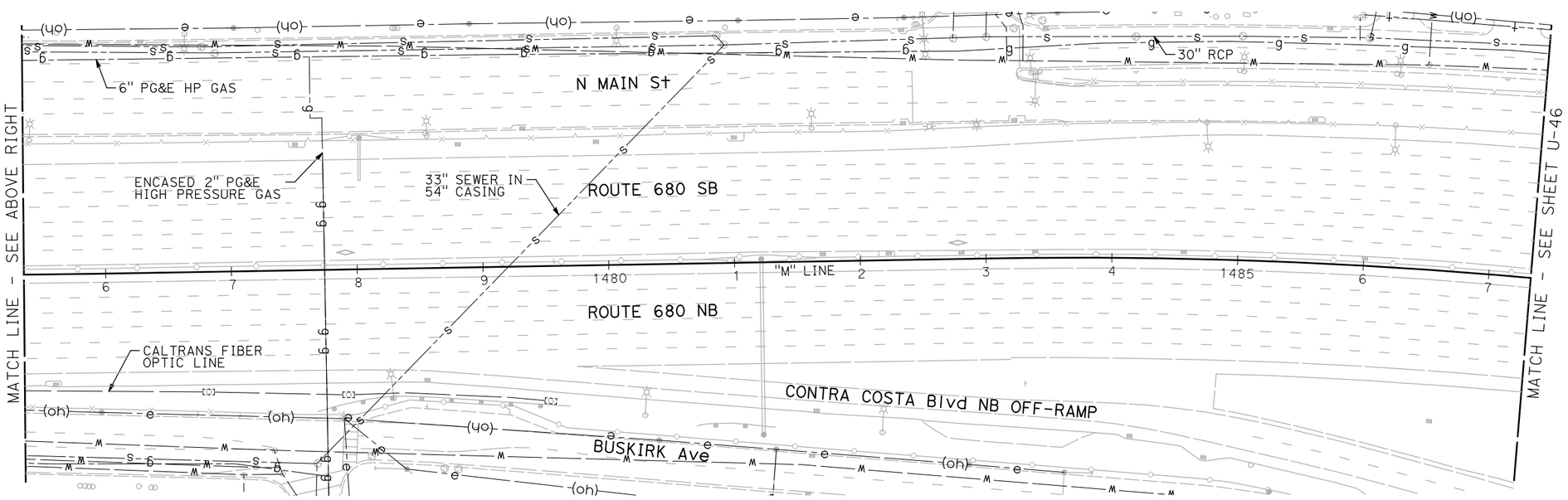
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 DGN FILE => 0414000490ka045.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	49	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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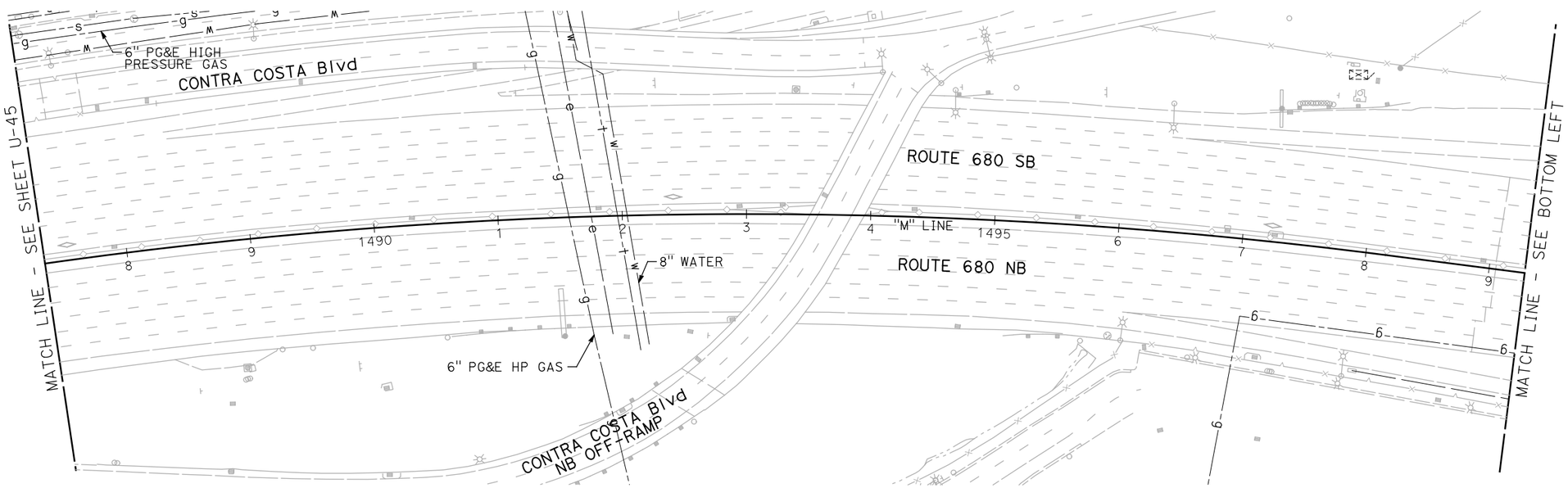
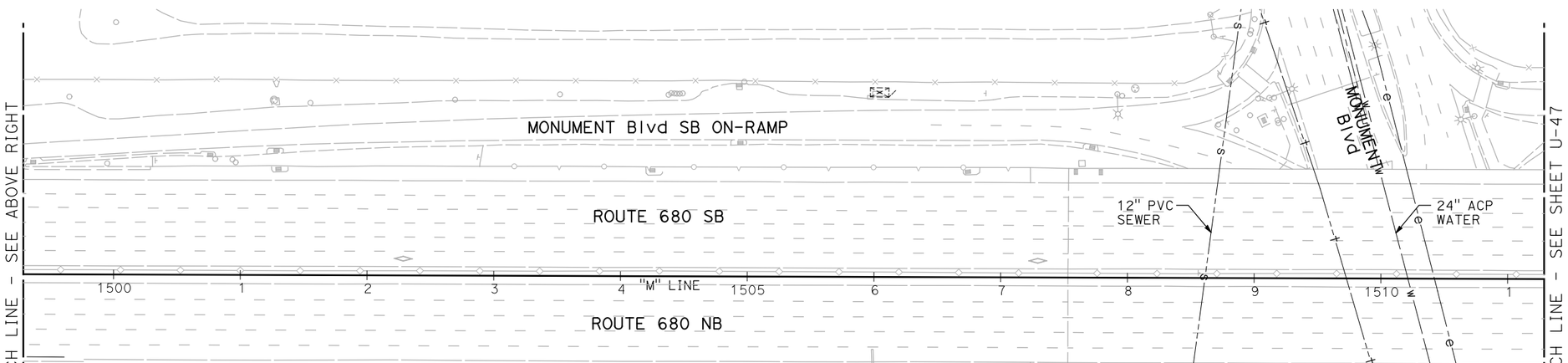
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 DGN FILE => 0414000490ka046.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	50	175

REGISTERED CIVIL ENGINEER DATE

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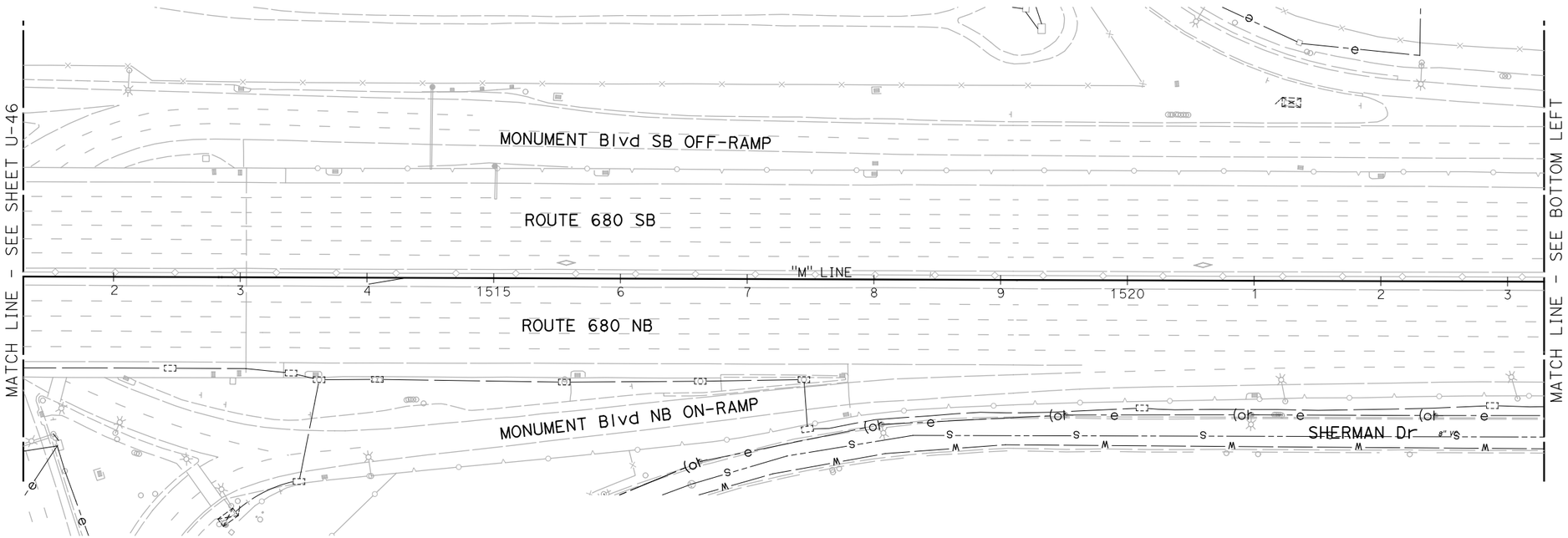
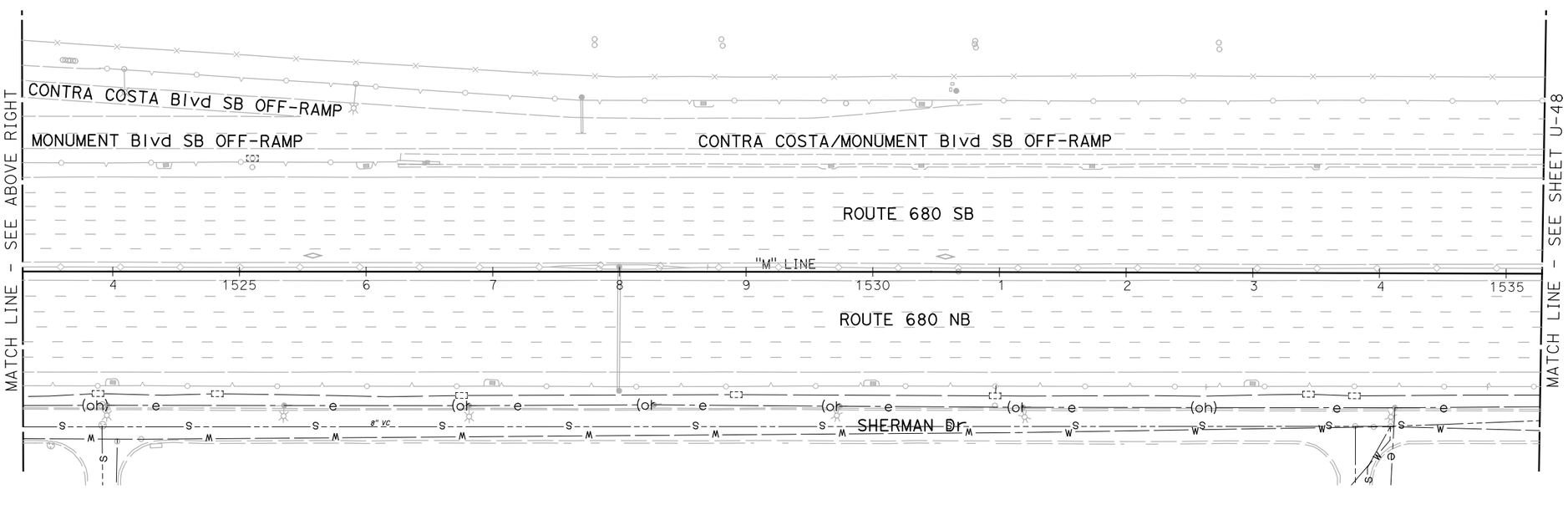
OAKLAND, CA 94607





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UTILITY PLAN

SCALE: 1" = 50'

U-47

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	51	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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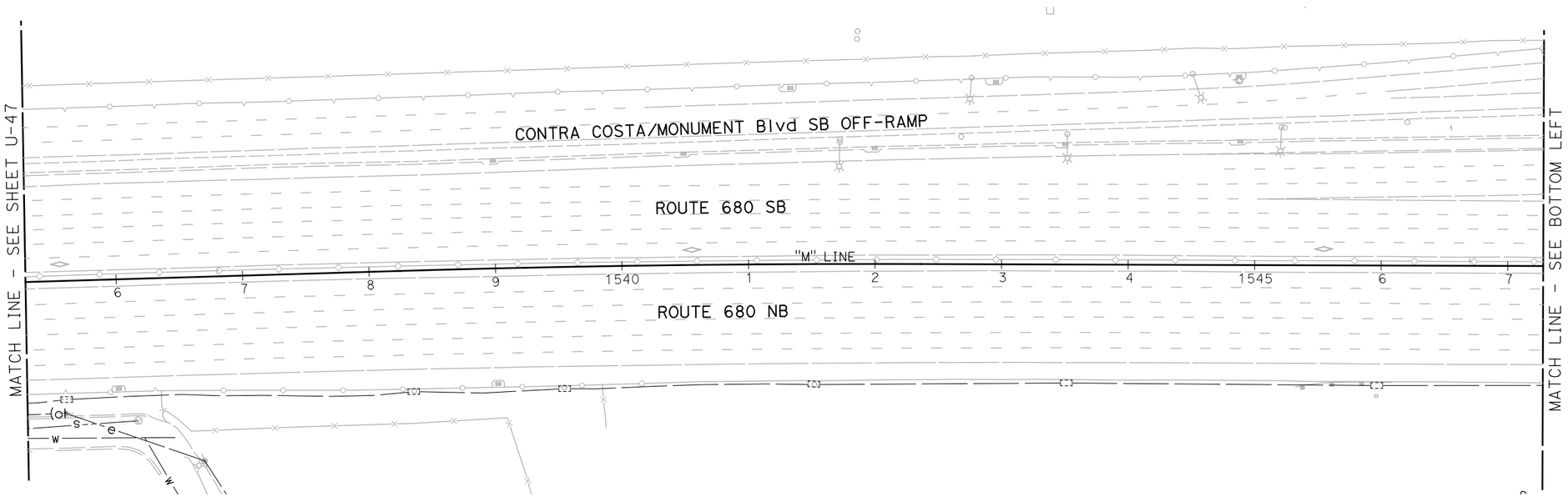
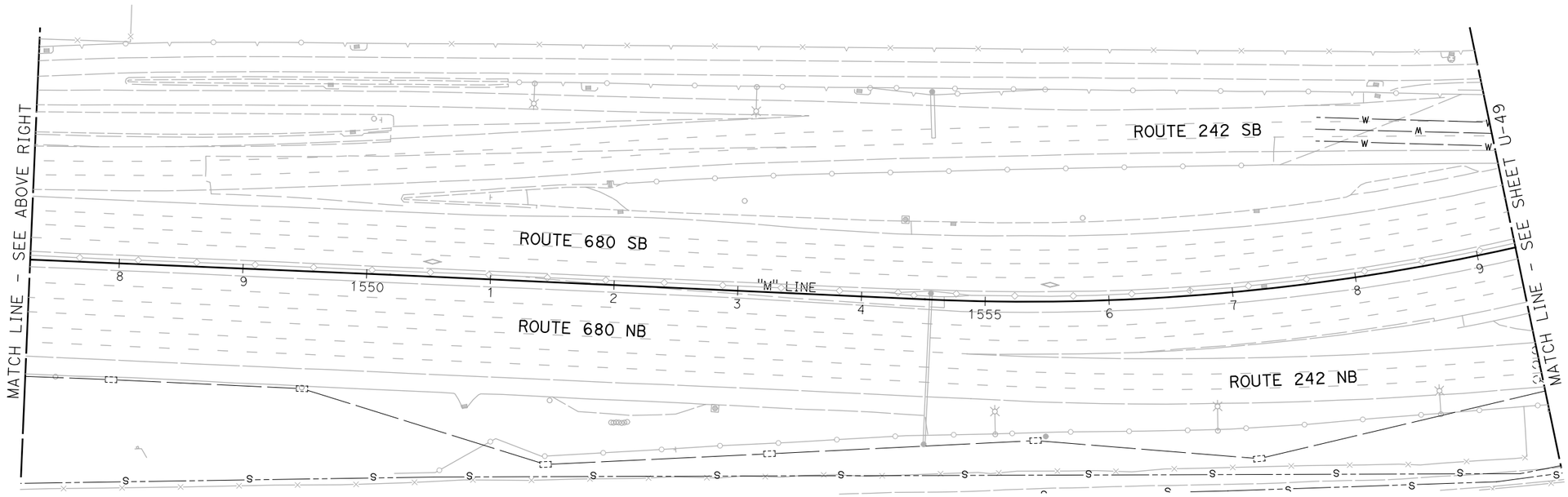
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	52	175

REGISTERED CIVIL ENGINEER DATE

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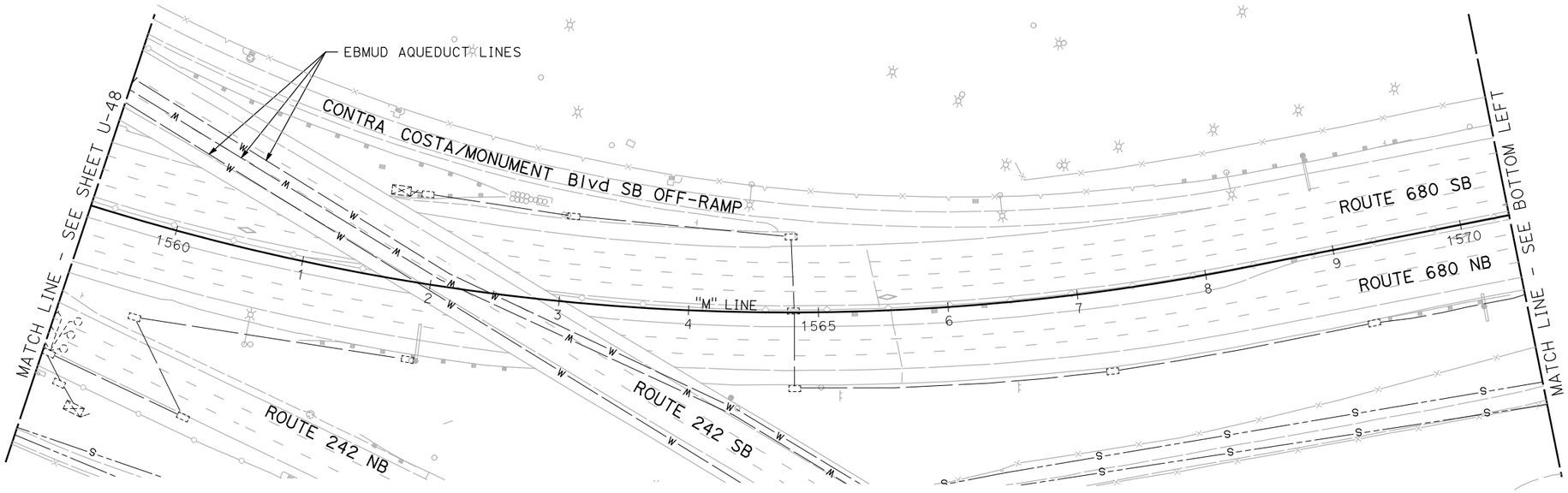
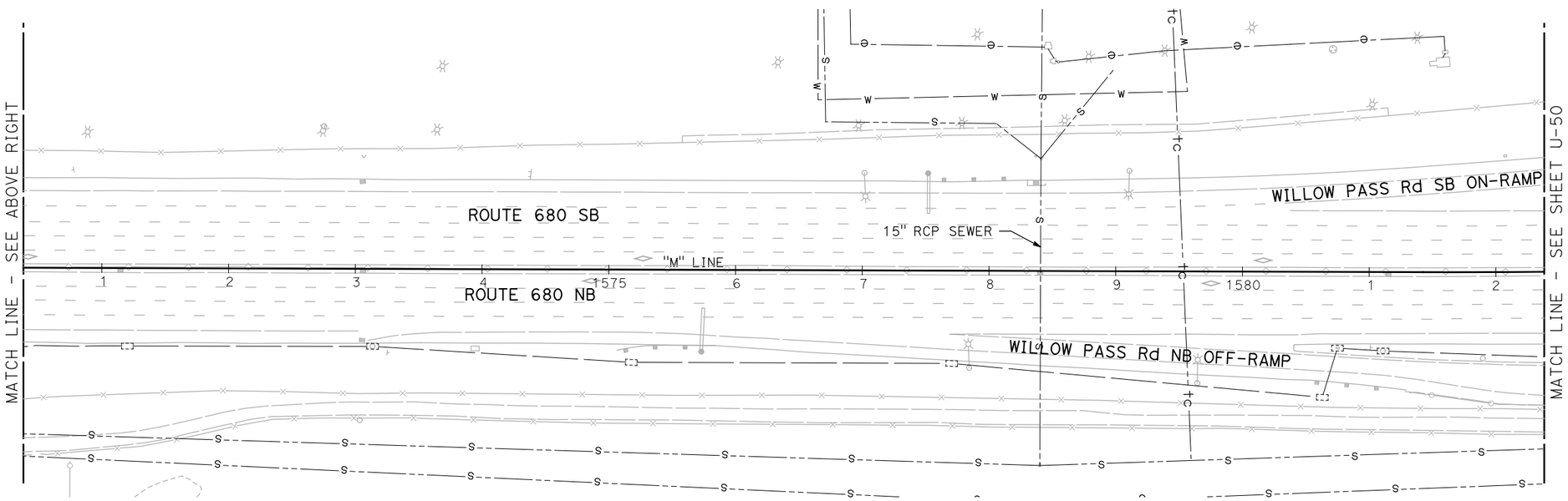
101 EIGHTH STREET
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	53	175

REGISTERED CIVIL ENGINEER DATE

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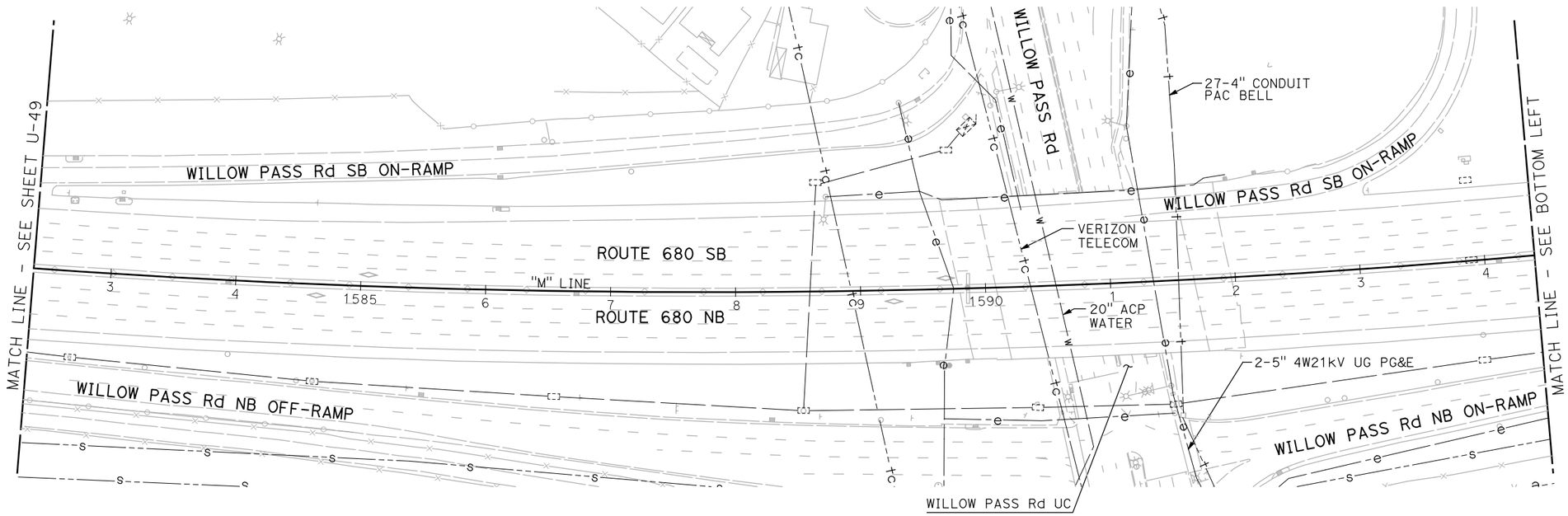
OAKLAND, CA 94607



NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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UTILITY PLAN

SCALE: 1" = 50'

U-50

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	54	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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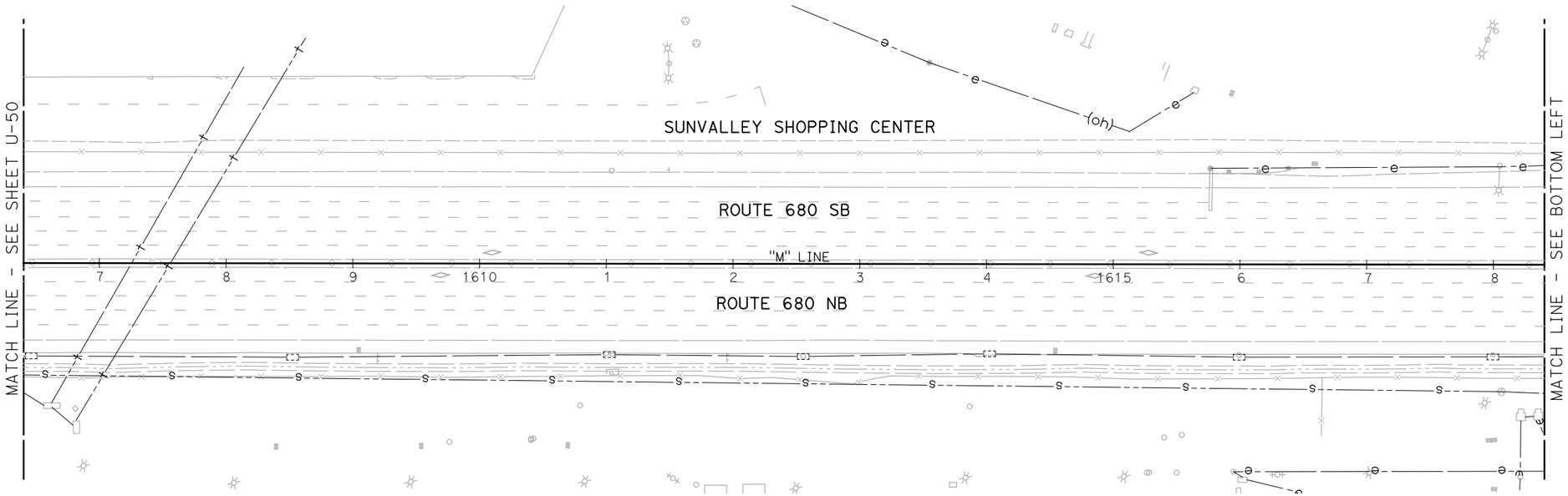
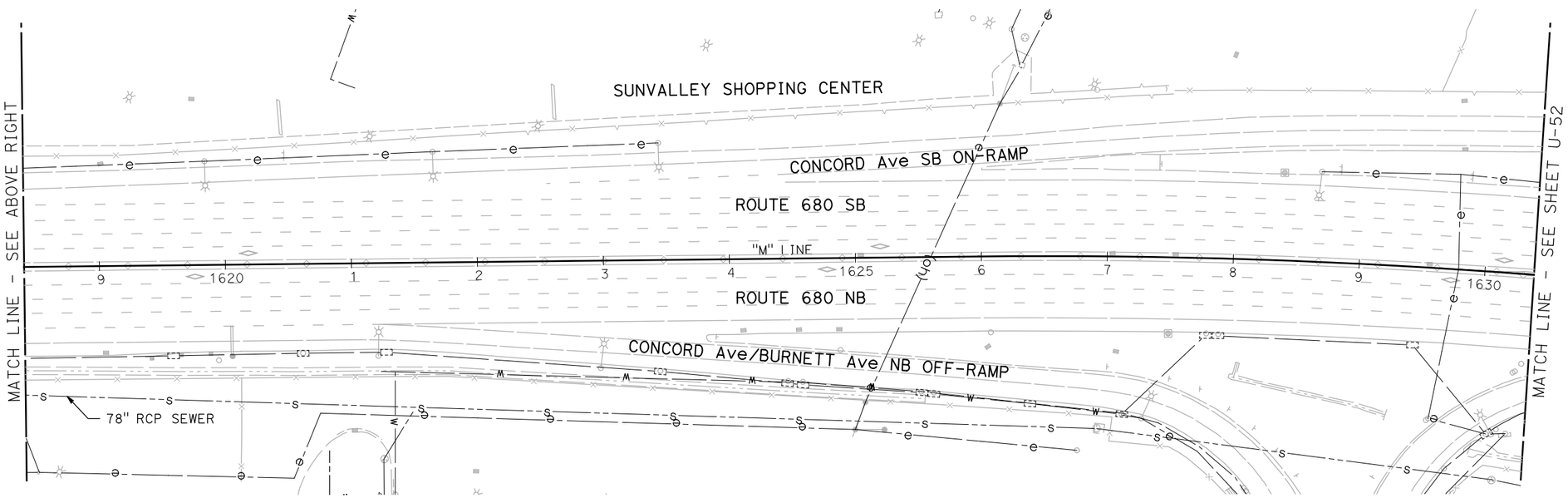
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-51

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

CALCULATED-DESIGNED BY: ARON ZEREZGHI

CHECKED BY: NATHAN COPE

REVISED BY

DATE REVISED

c:\pw_work\atknaca01\zere2344\dms00937\04140000490ka051.dgn

LAST REVISION 00-00-00

DATE PLOTTED => 5/27/2015
TIME PLOTTED => 4:15:42 PM

BORDER LAST REVISED 7/2/2010

USERNAME => ZERE2344
DGN FILE => 0414000490ka051.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0750

PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	55	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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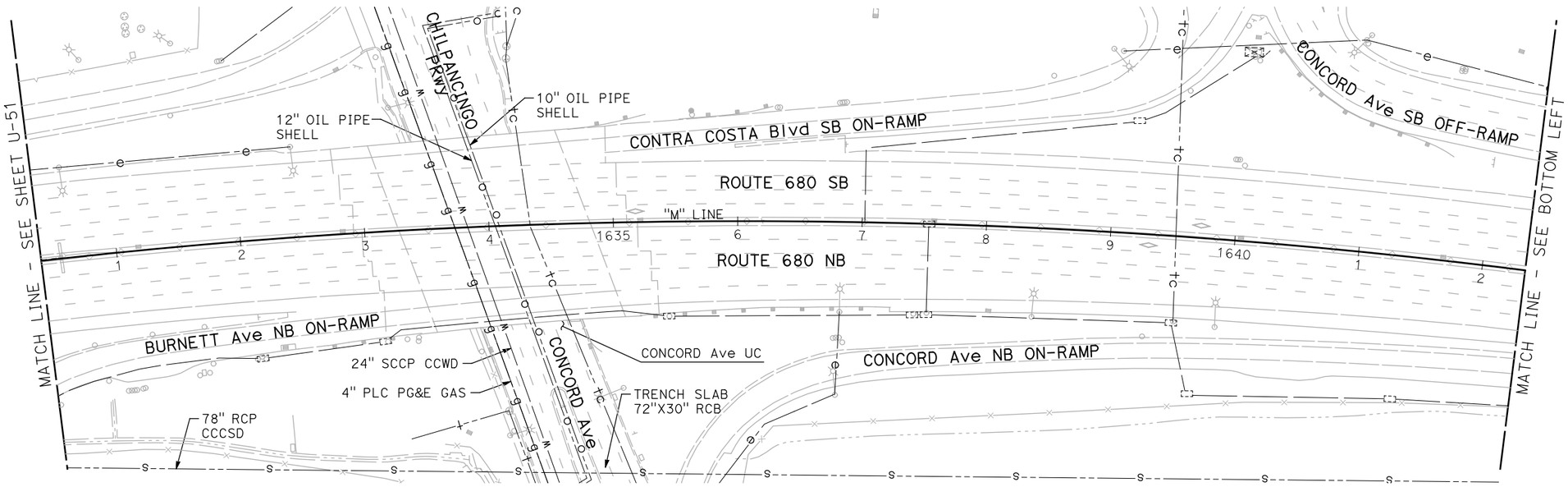
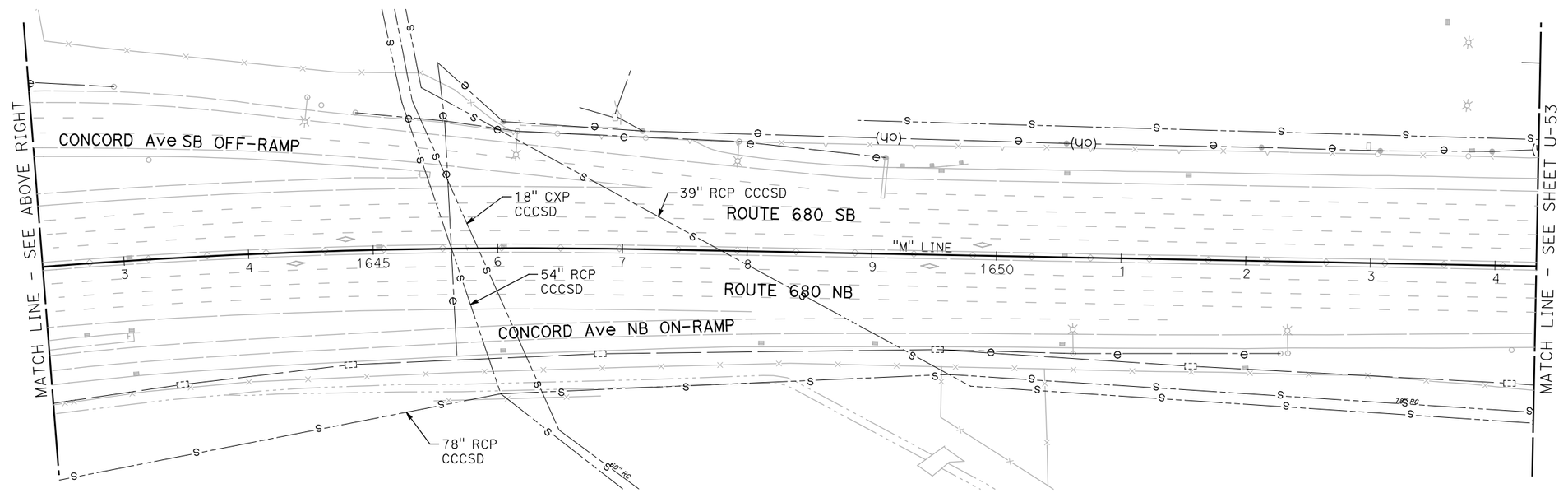
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-52

REVISED BY	DATE REVISED
ARON ZEREZGHI	NATHAN COPE
CALCULATED-DESIGNED BY	CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR	KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/27/2015 TIME PLOTTED => 4:15:50 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	56	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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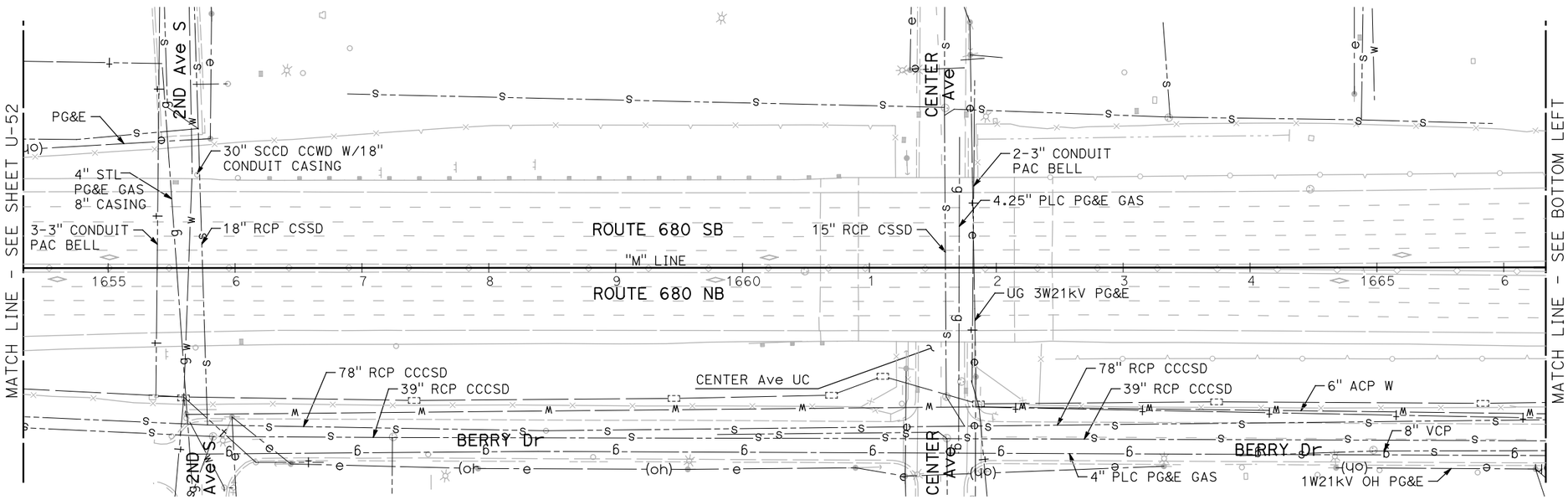
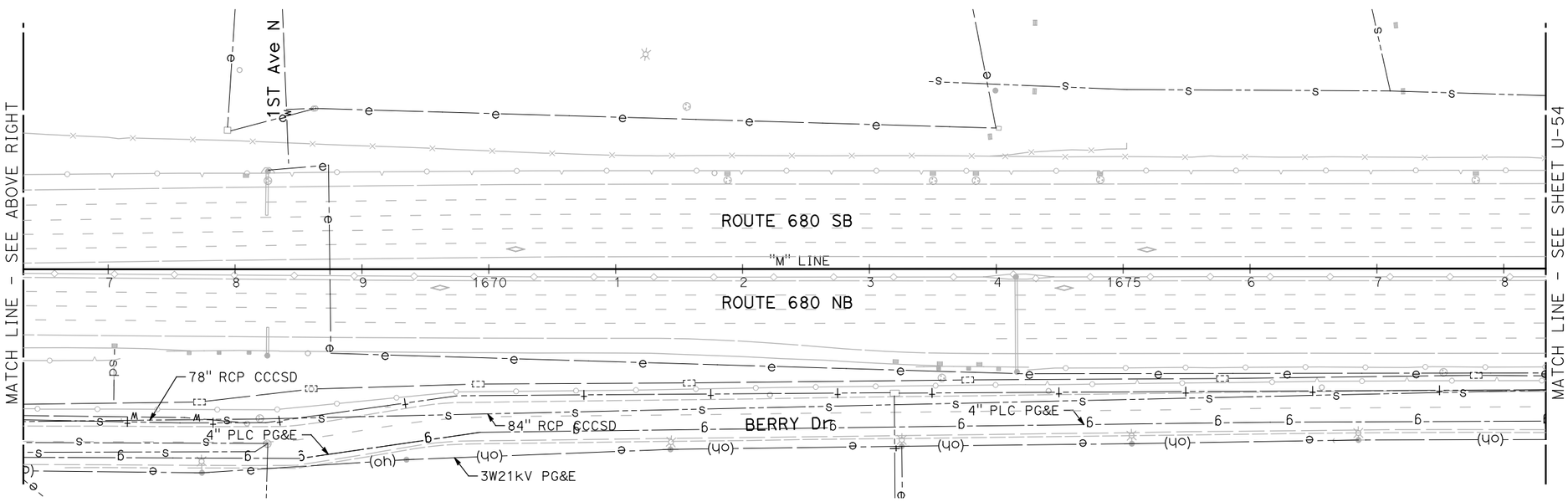
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-53

REVISED BY | DATE REVISED

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/27/2015 TIME PLOTTED => 4:15:58 PM

BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 DGN FILE => 0414000490ka053.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	57	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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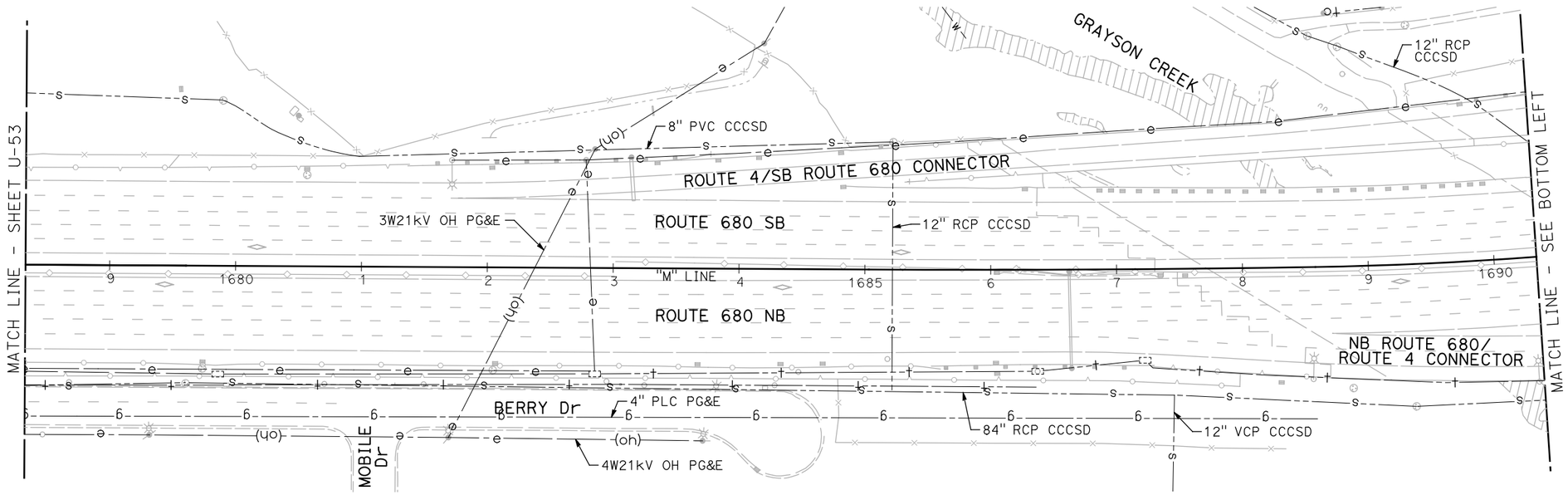
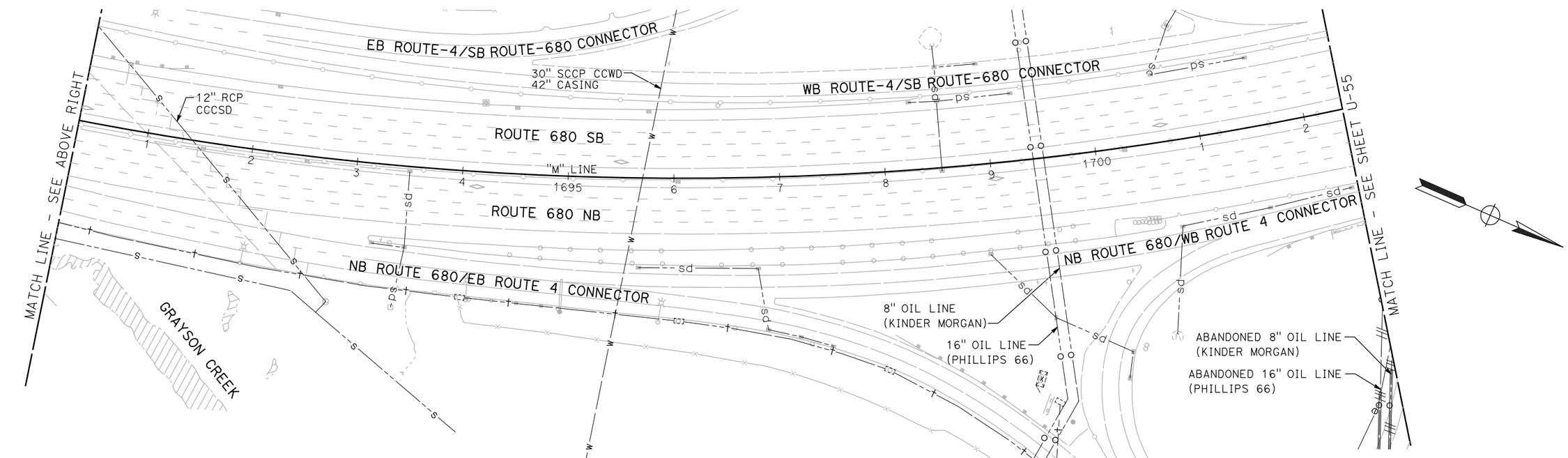
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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U-54

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CONSULTANT FUNCTIONAL SUPERVISOR | KAI CHAN

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/27/2015 TIME PLOTTED => 4:16:06 PM

BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 DGN FILE => 0414000490ka054.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	58	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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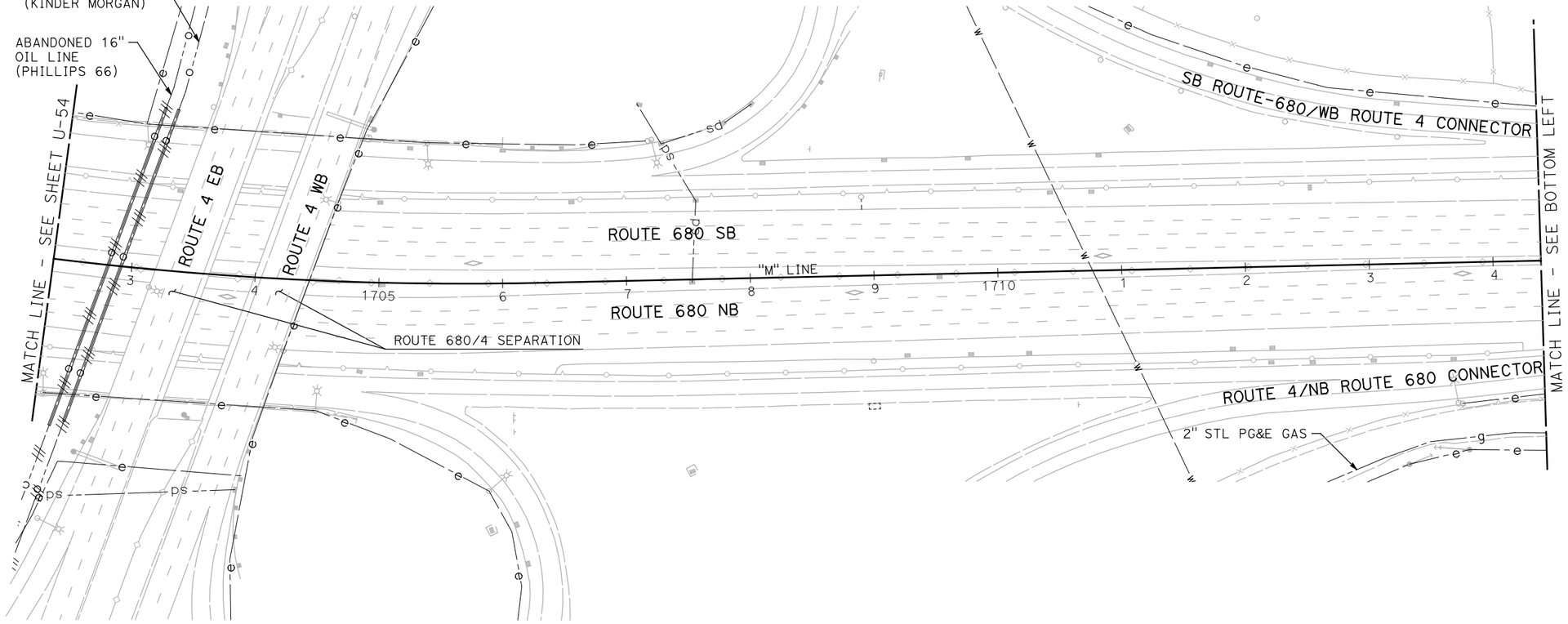
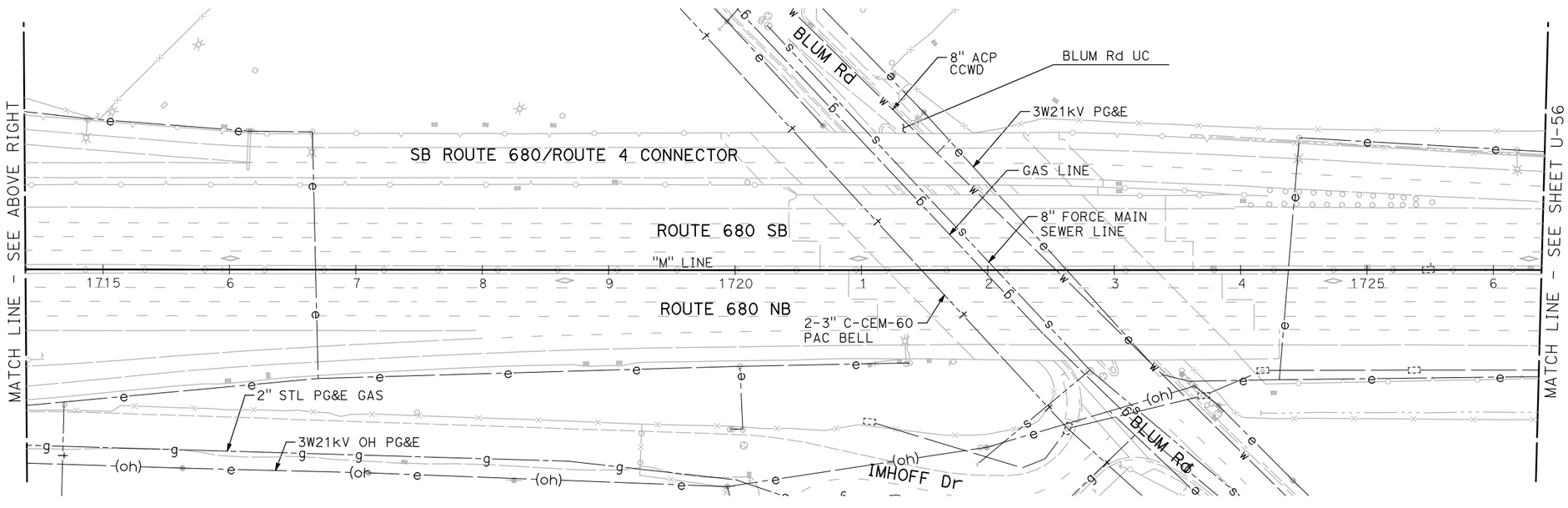
OAKLAND, CA 94607





NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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UTILITY PLAN

SCALE: 1" = 50'

U-55

REVISED BY | DATE REVISED

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/27/2015 | TIME PLOTTED => 4:16:14 PM

BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 | DGN FILE => 0414000490ka055.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	59	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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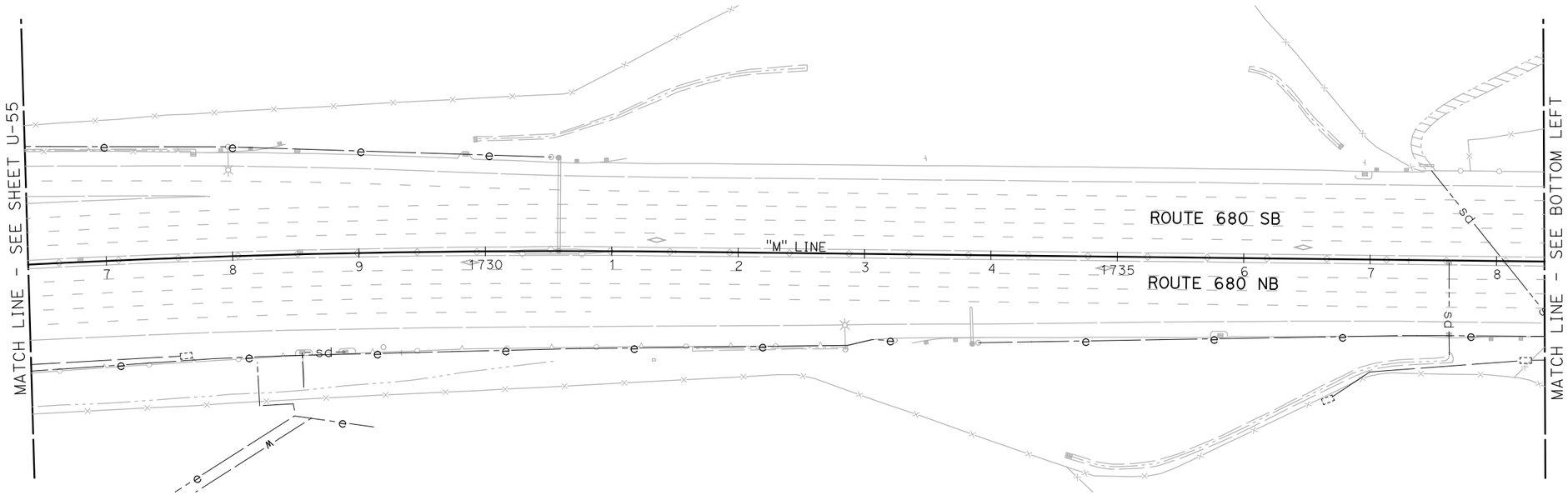
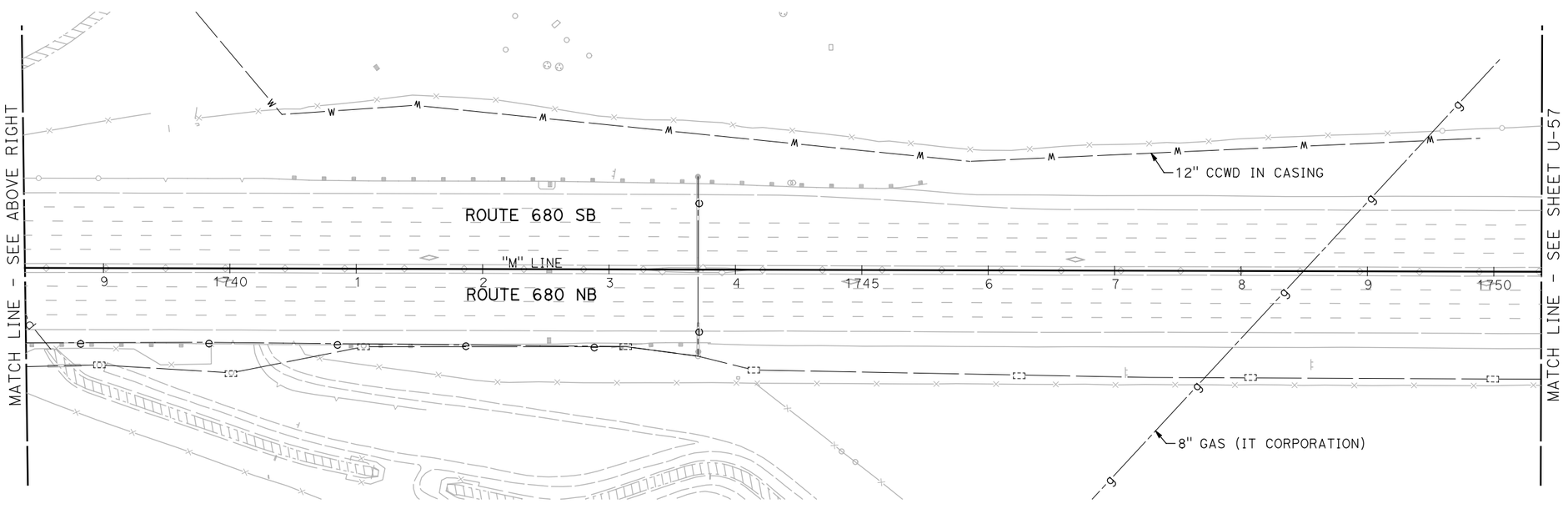
101 EIGHTH STREET
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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U-56

REVISED BY	DATE REVISED

ARON ZEREZGHI — NATHAN COPE

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CONSULTANT FUNCTIONAL SUPERVISOR — KAI CHAN

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/27/2015 TIME PLOTTED => 4:16:21 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	60	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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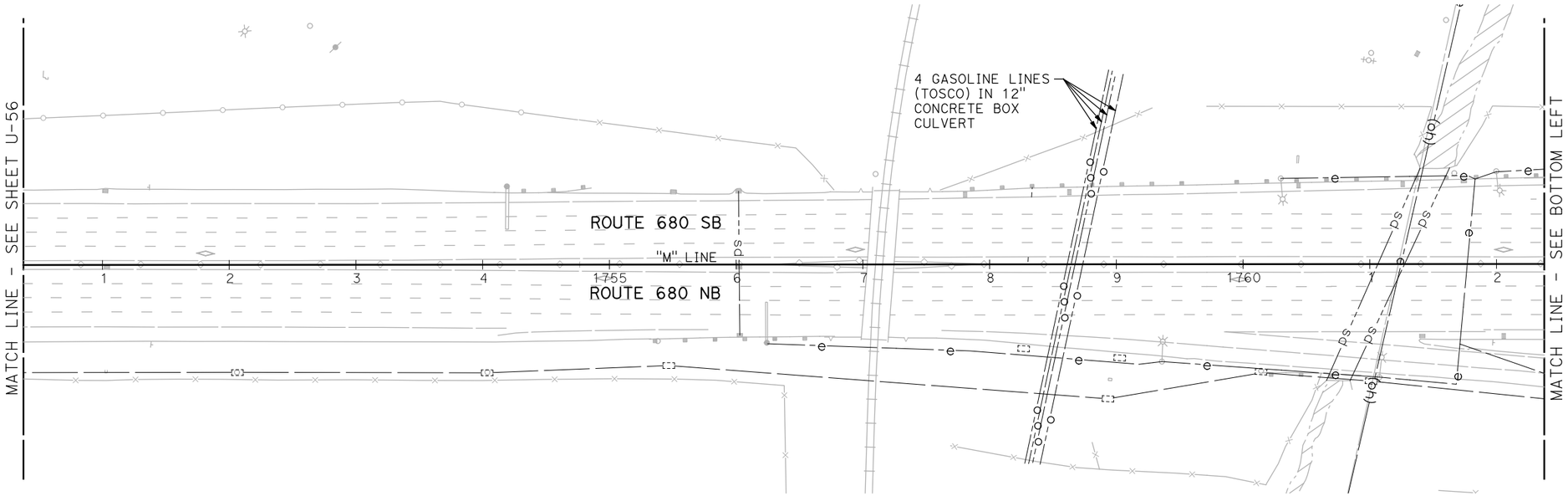
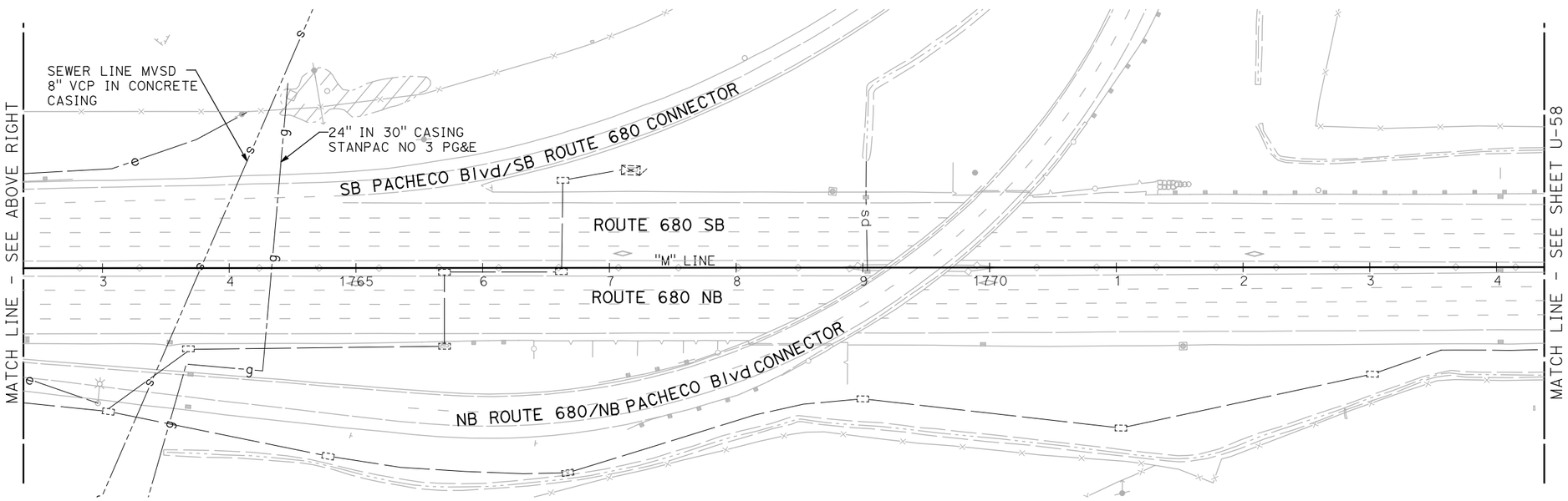
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-57

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

CALCULATED-DESIGNED BY: ARON ZEREZGHI

CHECKED BY: NATHAN COPE

REVISED BY

DATE REVISED

c:\pw_work\atknaca01\zere2344\dms00937\04140004900ka057.dgn

LAST REVISION 00-00-00

DATE PLOTTED => 5/27/2015
TIME PLOTTED => 4:16:29 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	61	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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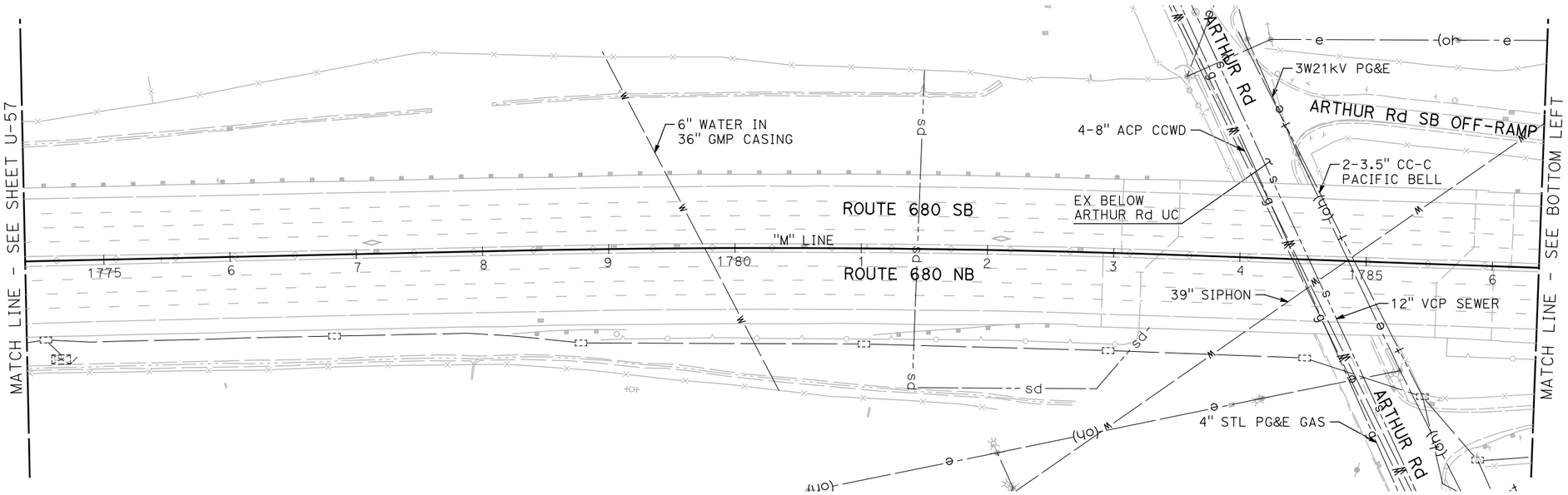
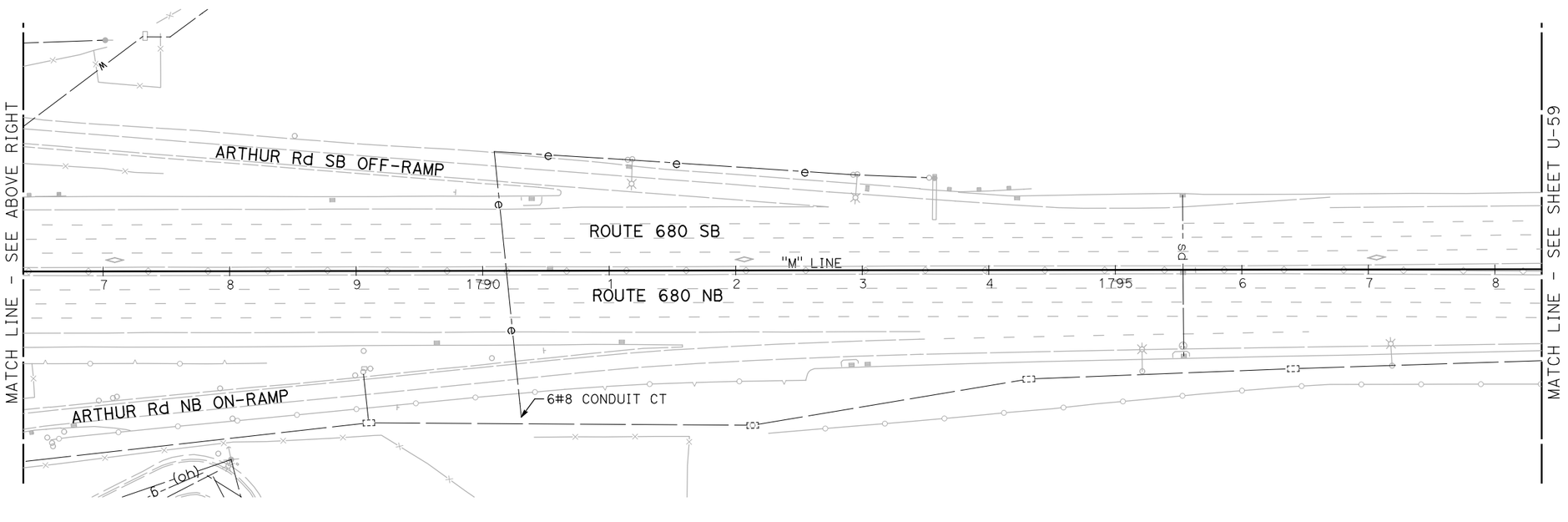
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

U-58

REVISED BY | DATE REVISED

ARON ZEREZGHI | NATHAN COPE

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CONSULTANT FUNCTIONAL SUPERVISOR | KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/27/2015 TIME PLOTTED => 4:16:38 PM

BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 DGN FILE => 04140000490ka058.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	62	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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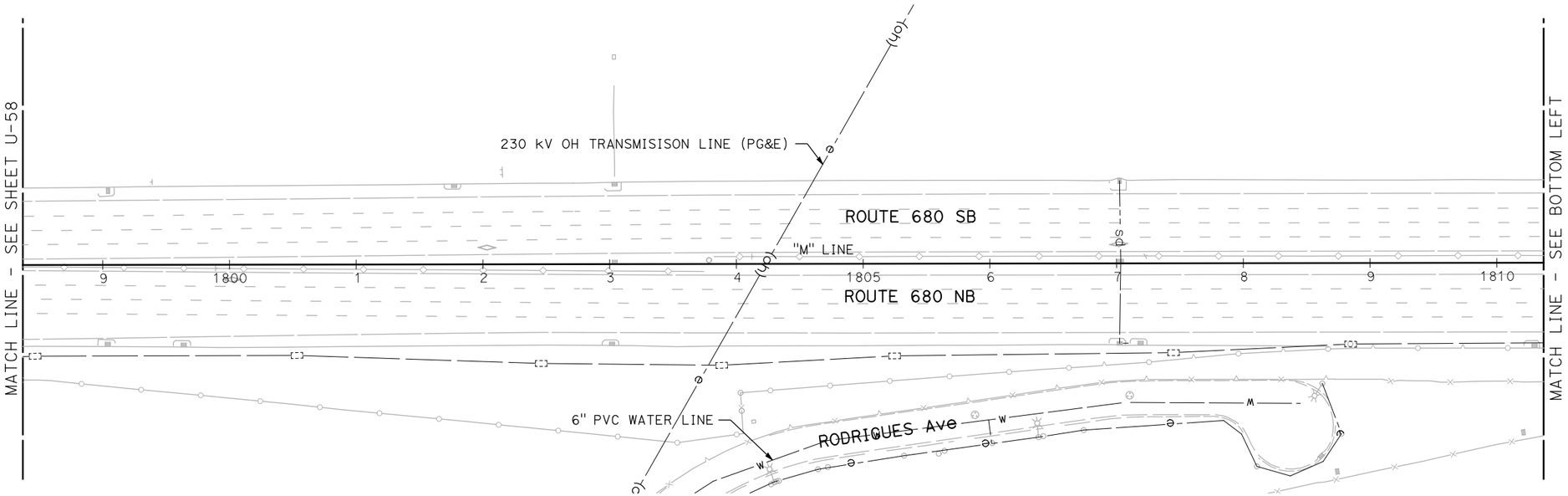
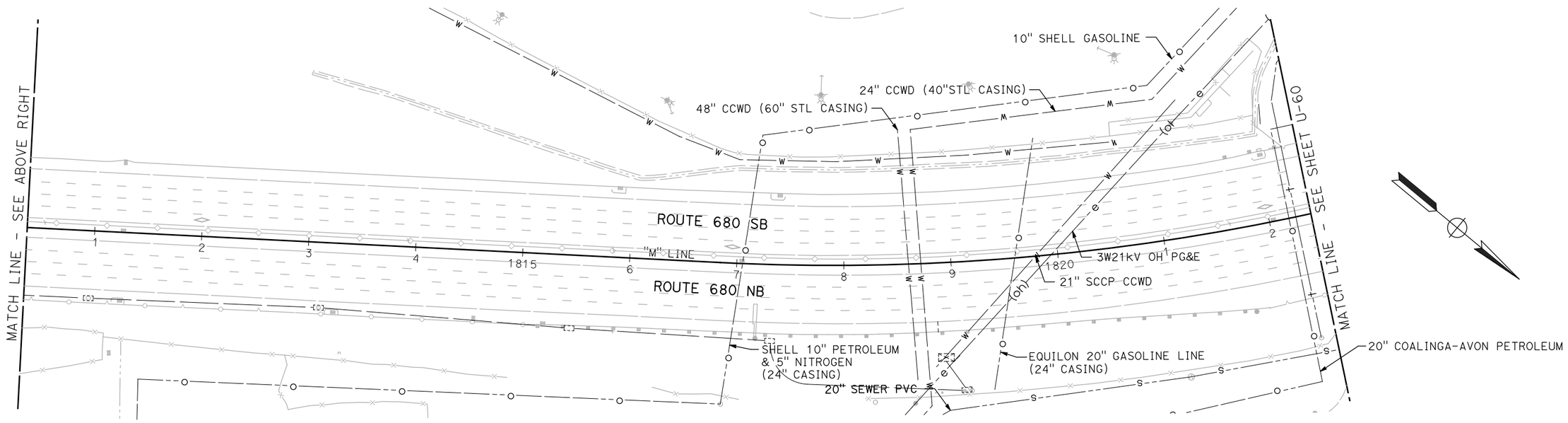
101 EIGHTH STREET
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

U-59

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
ARON ZEREZGHI	NATHAN COPE

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/27/2015 TIME PLOTTED => 4:16:46 PM

BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 DGN FILE => 0414000490ka059.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	63	175

REGISTERED CIVIL ENGINEER DATE

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REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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ATKINS
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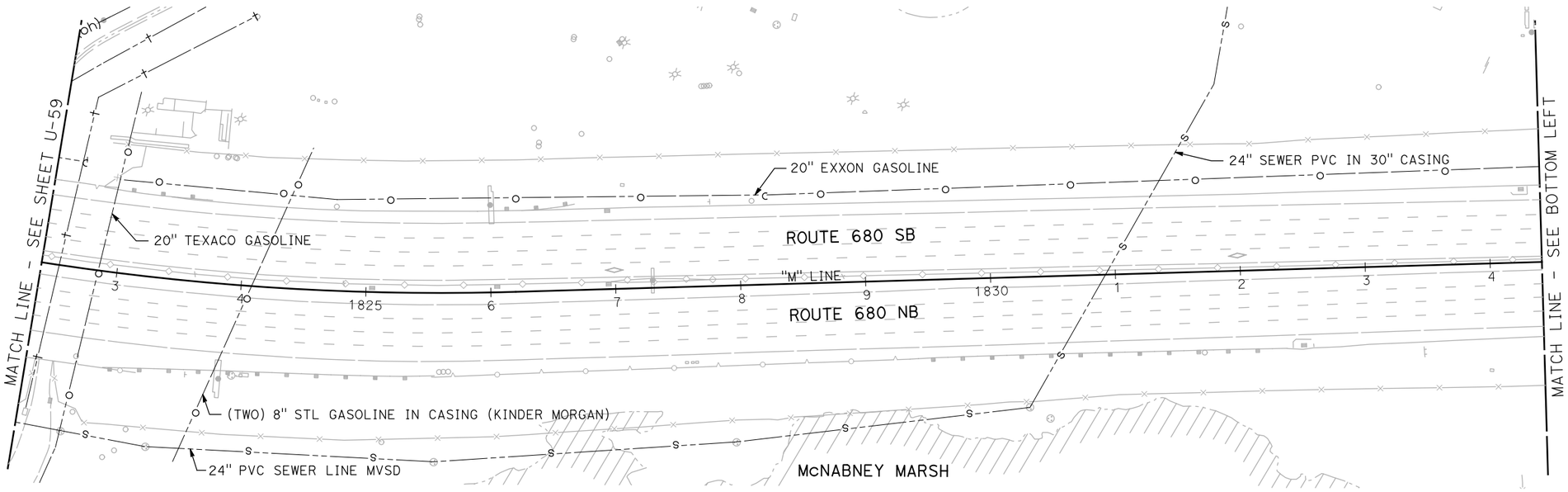
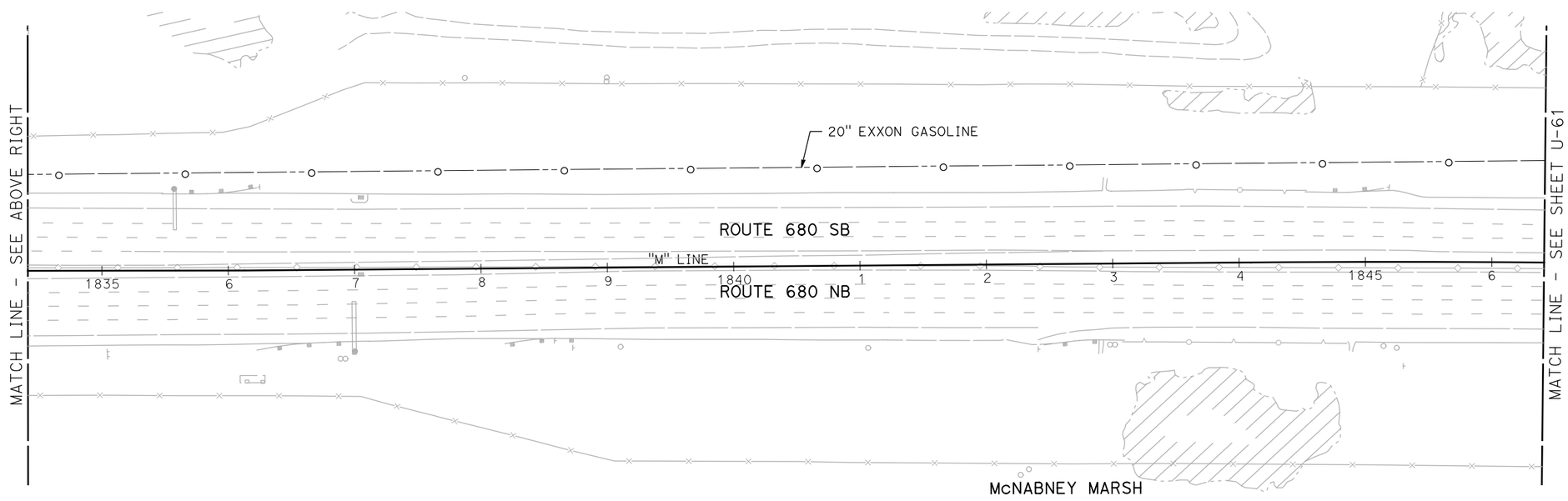
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

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U-60

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CONSULTANT FUNCTIONAL SUPERVISOR | KAI CHAN

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/27/2015 TIME PLOTTED => 4:16:51 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	64	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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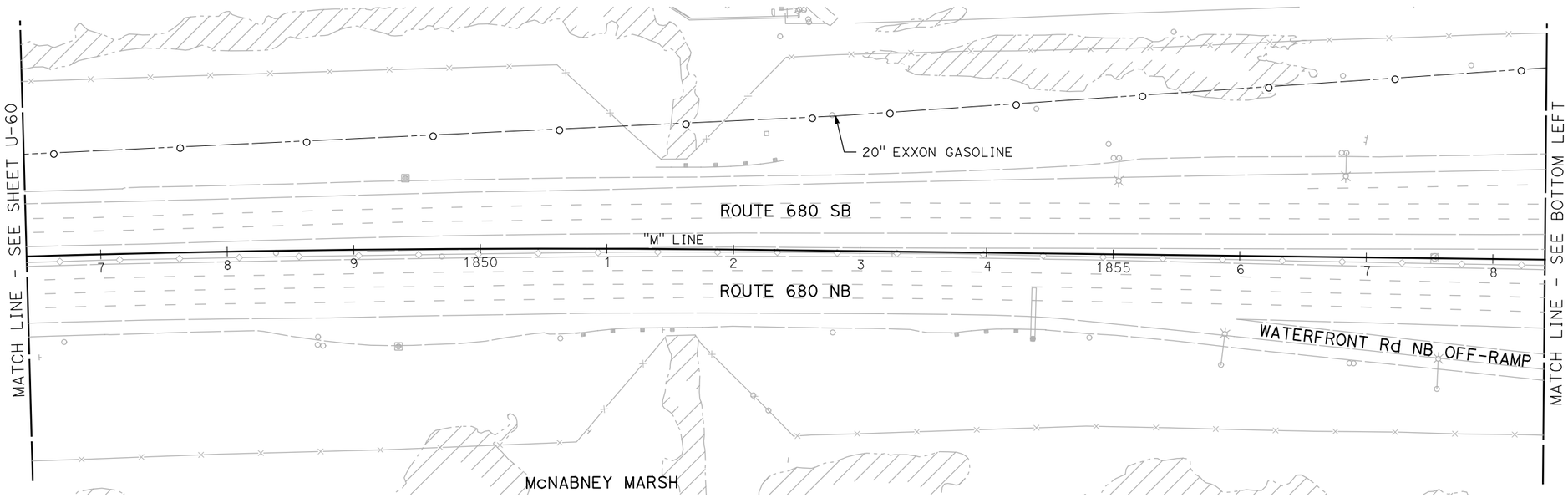
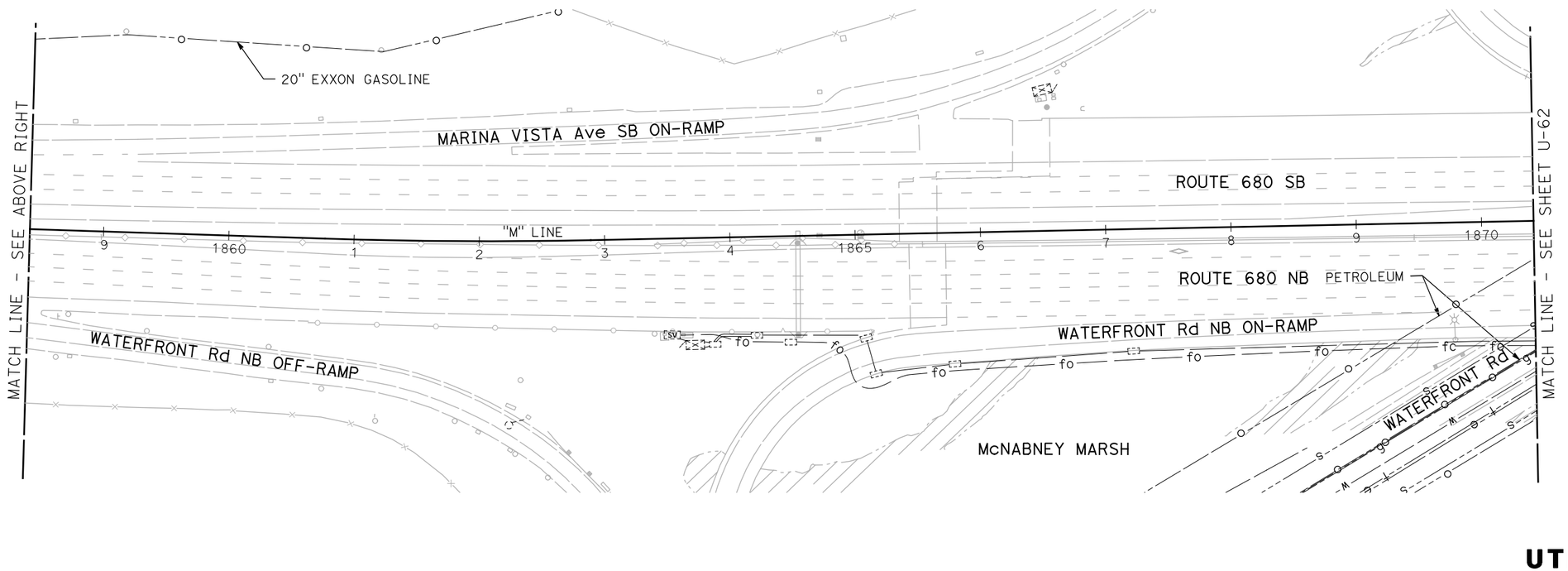
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

U-61

REVISED BY	DATE REVISED
ARON ZEREZGHI	NATHAN COPE
CALCULATED-DESIGNED BY	CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR	KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	65	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NATHAN DAVID COPE No. 72316 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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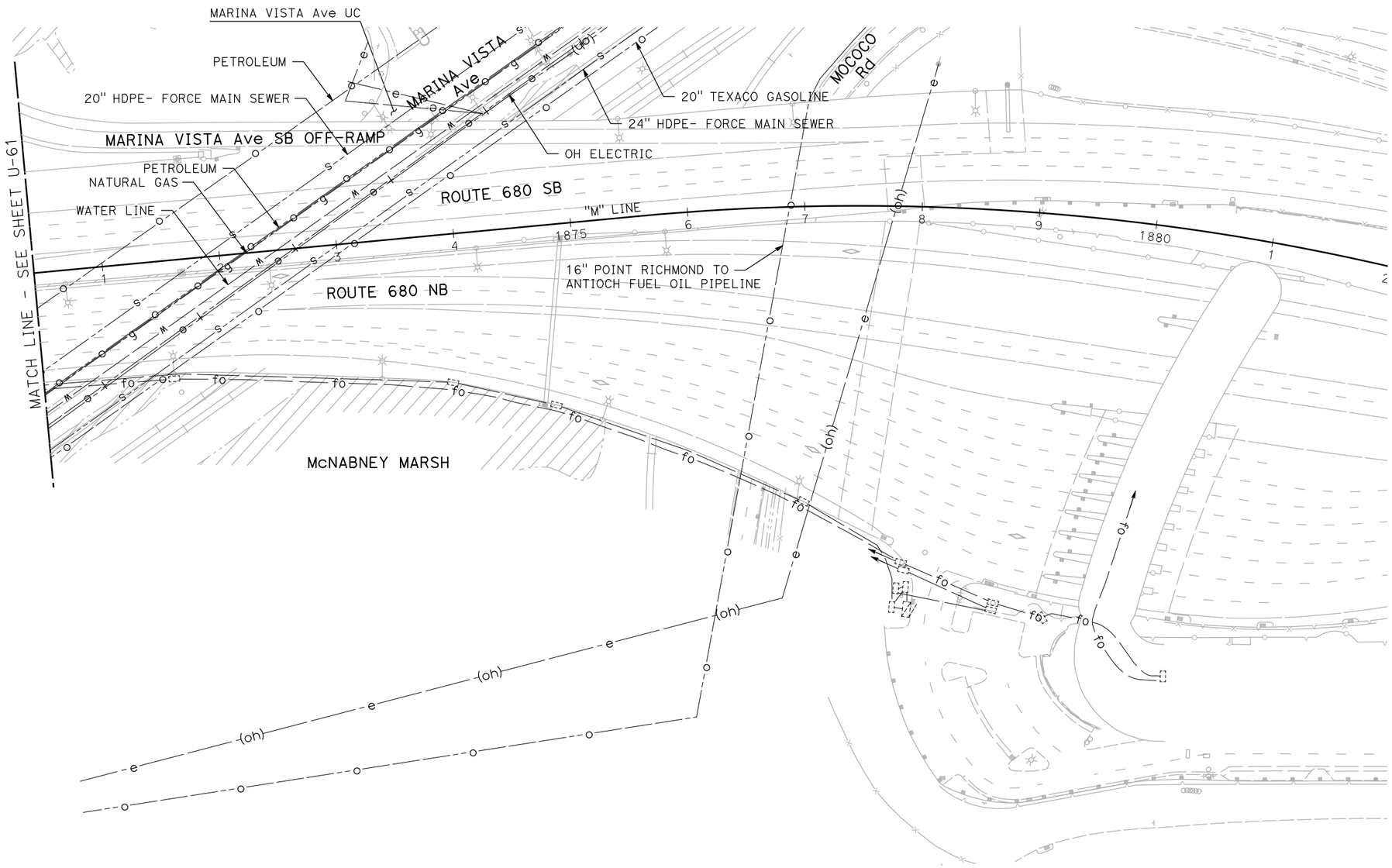
OAKLAND, CA 94607



NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-62

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

CALCULATED-DESIGNED BY: ARON ZEREZGHI

CHECKED BY: NATHAN COPE

REVISED BY

DATE REVISED

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BORDER LAST REVISED 7/2/2010

USERNAME => ZERE2344
DGN FILE => 04140004900ka062.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0750

PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	66	175

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KAI H. CHAN No. 36241 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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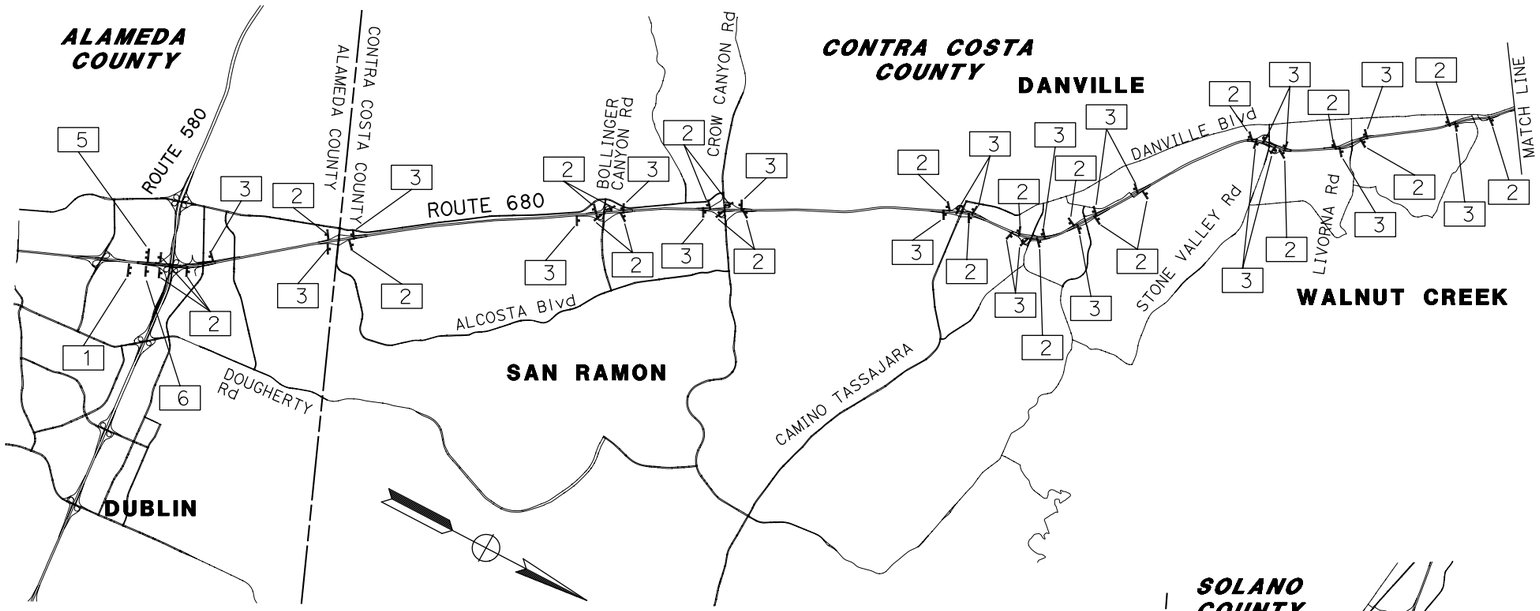

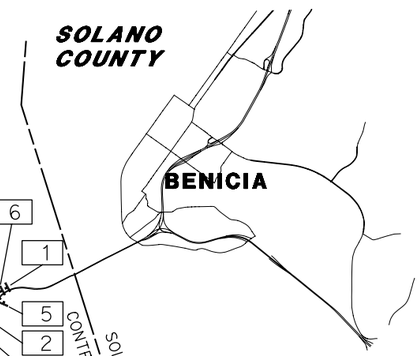

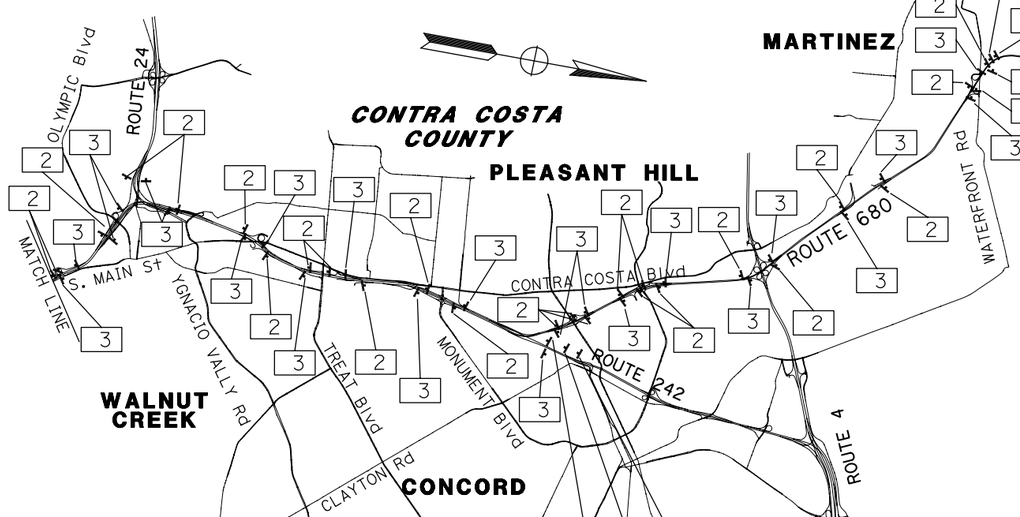

LEGEND

No. CONSTRUCTION AREA SIGN NUMBER

NOTES

1. SEE STANDARD PLAN T14 FOR RAMP CLOSURE.
2. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE ONLY. EXACT LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER.
3. CONFLICTING SIGNS SHALL BE COVERED WHEN NOT IN USE.
4. DETOUR SIGNS TO BE COVERED OR REMOVED WHEN NOT IN USE.
5. INFORMATION SIGNS SHALL BE INSTALLED A MINIMUM OF 72 HOURS PRIOR TO ANY CLOSURE.
6. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE ACCESS AT ALL TIMES.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	MESSAGE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS
1	G20-1	ROAD WORK NEXT 14 MI	60" x 36"	2 - 4" x 4"	3
2	W20-1	ROAD WORK AHEAD	48" x 48"	1 - 4" x 4"	53
3	G20-2	END ROAD WORK	48" x 18"	1 - 4" x 4"	46
4	W20-1	ROAD WORK AHEAD	72" x 72"	2 - 6" x 6"	2
5	G20-2	END ROAD WORK	60" x 24"	2 - 4" x 4"	3
6	C40 (CA)	TRAFFIC FINES DOUBLED	72" x 36"	2 - 4" x 6"	3

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

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REGISTERED CIVIL ENGINEER DATE

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REGISTERED PROFESSIONAL ENGINEER KAI H. CHAN No. 36241 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA

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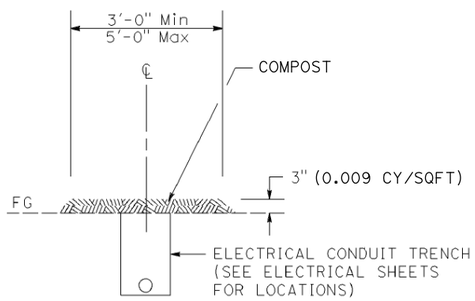
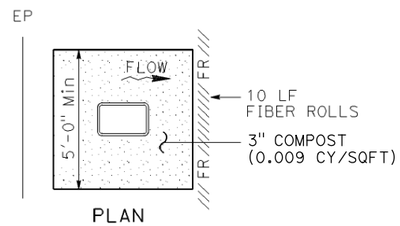
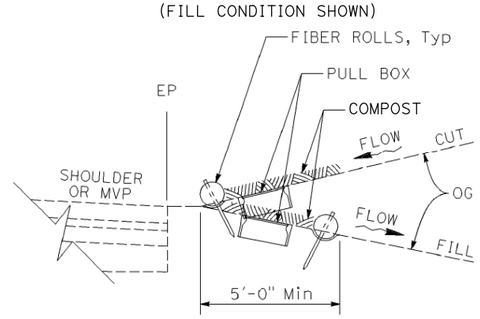


SECTION

EROSION CONTROL FOR CONDUIT TRENCHING, TYPICAL



PLAN
(FILL CONDITION SHOWN)



SECTION

EROSION CONTROL FOR ELECTRICAL COMPONENTS, TYPICAL

EQUIPMENT ENCLOSURE FOUNDATIONS, VAULTS AND PULL BOXES (PULL BOX SHOWN)

EROSION CONTROL

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	DEPTH	REMARKS
		DESCRIPTION	TYPE			
STEP 1	FIBER ROLLS	FIBER ROLL	8 TO 10 INCHES IN DIA	-	-	RICE STRAW FILLED, JUTE COVERED AND INSTALLATION TYPE 1
STEP 2	COMPOST	COMPOST	COURSE	404 CY/ACRE	3"	COARSE COMPOST MAY BE SUBSTITUTED WITH WOOD CHIP OR TREE TRIMMING WOOD MULCH

EROSION CONTROL QUANTITIES

SHEET No.	LOCATION	FIBER ROLLS	COMPOST
		LF	SQFT
E-03 THRU E-63	FIBER OPTIC CONDUIT TRENCHING	-	1,930
E-03 THRU E-63	ELECTRICAL COMPONENTS	2,400	5,500
	TOTAL	2,400	7,430

PROJECT NOTES:

1. KEY IN COMPOST OR TAPER ORIGINAL GROUND SO COMPOST DOES NOT OBSTRUCT STORM WATER FLOWS. KEEP COMPOST CLEAR OF AREAS OF CONCENTRATED FLOWS.

EROSION CONTROL LEGEND AND QUANTITIES

NO SCALE

ECL-1

REVISED BY | DATE REVISED
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SUPERVISOR | KAI CHAN
CONSULTANT FUNCTIONAL SUPERVISOR
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	68	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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OAKLAND, CA 94607

NOTES:

1. THIS PROJECT HAS BEEN DESIGNED USING CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND STANDARD SPECIFICATIONS, 2010 EDITION.
2. ALL NEW INFRASTRUCTURE SHALL BE INSTALLED WITHIN RIGHT-OF-WAY OR EASEMENTS. CONTRACTOR MUST IDENTIFY AND IS RESPONSIBLE FOR ALL UTILITY IDENTIFICATION PRIOR TO INSTALLATION.
3. CALL UNDERGROUND SERVICE ALERT (U.S.A.) AT (800) 227-2600 AT LEAST 48 HOURS PRIOR TO EXCAVATION TO LOCATE ALL EXISTING UNDERGROUND UTILITIES. UTILITY LOCATION SERVICES SHALL MEET LOCAL JURISDICTION REQUIREMENTS.
4. THE FOLLOWING UNDERGROUND FACILITIES MAY BE LOCATED IN THE PROJECT AREA: PULL BOXES, CONDUIT, AND CABLE FOR STREETLIGHTS, TRAFFIC SIGNALS, AND TRAFFIC OPERATIONS SYSTEMS. UNLESS OTHERWISE NOTED, ALL EXISTING FACILITIES SHALL BE PROTECTED-IN-PLACE. THE CONTRACTOR MUST CONTACT THE APPROPRIATE LOCAL JURISDICTION FOR LOCATIONS AT LEAST 2 WORKING DAYS PRIOR TO WORKING IN THE AREA.
5. THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES IS APPROXIMATE AND HAS NOT BEEN INDEPENDENTLY VERIFIED BY THE DESIGN ENGINEER. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON PLANS WERE OBTAINED FROM THE BAY AREA EXPRESS LANES COMMUNICATION NETWORK CONDUIT TESTING REPORT AND CALTRANS RECORDS AND PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE DESIGN ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION. THE CONTRACTOR WILL NOT BE COMPENSATED FOR THE REPAIR OF UTILITIES OR SURROUNDING INFRASTRUCTURE THAT IS DAMAGED DURING CONSTRUCTION.
6. CONTRACTOR SHALL PROTECT ALL EXISTING INFRASTRUCTURE AREAS NOT SPECIFIED FOR REMOVAL, AND SHALL BE RESPONSIBLE TO REPLACE OR REPAIR ANY DAMAGED INFRASTRUCTURE AREAS IN A TIMELY MANNER AT NO ADDITIONAL COST. THE CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING PLANTINGS, MATERIALS, AESTHETIC FEATURES, LANDSCAPING, AND IRRIGATION SYSTEMS, AND REPLACE OR RECONSTRUCT ANY PLANTS, MATERIALS, AESTHETIC FEATURES, LANDSCAPING, AND IRRIGATION SYSTEMS DAMAGED DURING THE COURSE OF CONSTRUCTION PER THE LANDSCAPE AND AESTHETICS PERFORMANCE SPECIFICATION.
7. CONDUIT ROUTING, PULL BOX, POLE, AND CABINET LOCATIONS ARE SCHEMATIC FOR THE PURPOSE OF CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION. FINAL LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
8. ALL NEW CONDUIT SHALL BE INSTALLED PER THE CALTRANS STANDARD SPECIFICATIONS AND PER SPECIFIED DETAILS ON THESE SHEETS UNLESS OTHERWISE NOTED ON THE PLANS.
9. THE CONTRACTOR SHALL PLACE ALL CONDUIT IN A MANNER THAT MINIMIZES HORIZONTAL AND VERTICAL BENDING, NOT TO EXCEED 1 FOOT PER 10 FEET.
10. ANY REMOVAL OF PAVEMENT NECESSARY TO FACILITATE INSTALLATION OF CONDUIT UNDER ROADWAY SHALL BE REPLACED TO ITS ORIGINAL CONDITION.
11. PULL BOXES SHALL BE INSTALLED PER STANDARD PLANS AND PER DETAILS IN THESE PLANS. PULL BOXES SHALL NOT BE INSTALLED IN SIDEWALK RAMPS NOR IN OR WITHIN TEN (10) FEET OF ANY DRIVEWAY OR LOCATED IN SWALES OR DITCHES. PULL BOXES TO BE INSTALLED IN THE PAVED ROADWAY SHOULDER SHALL BE TRAFFIC-RATED.
12. ALL HUB CABINETS SHALL BE INSTALLED OUTSIDE OF THE CLEAR RECOVERY ZONE OR BEHIND BARRIER RAIL OR GUARDRAIL. CABINET DOORS SHALL OPEN AS CALLED OUT IN THESE PLANS.
13. THE COMPLETE ELECTRICAL SYSTEM, INCLUDING PULL BOXES AND VAULTS, SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC). ALL WORK SHALL BE IN COMPLIANCE WITH THE NEC AND LOCAL CODES.
15. ELECTRICAL PULL BOXES FOR CONDUIT SYSTEMS THAT DO NOT CONTAIN FIBER OPTIC CABLE SHALL HAVE A MAXIMUM SPACING OF 500'.
16. LOCATION OF EXISTING PULL BOXES, VAULTS, TSCs, ARE APPROXIMATE. CONTRACTOR SHALL LOCATE ALL EXISTING PULL BOXES TO BE UTILIZED AS PART O THE BACKHAUL COMMUNICATIONS SYSTEM PRIOR TO STARTING WORK.
17. CONTRACTOR SHALL BE ALLOWED UP TO FIVE (5) TRUNK PLICES BETWEEN BACKHAUL COMMUNICATION HUB CABINETS TO ACCOMMODATE FIBER OPTIC CABLE REEL LENGTHS. CONTRACTOR SHALL SUBMIT PROPOSED TRUNK SPLICE LOCATIONS TO ENGINEER FOR APPROVAL.

INDEX OF ELECTRICAL PLANS:

SHEET NUMBER	TITLE
E-1	NOTES, LEGEND, ABREVIATIONS, AND INDEX OF ELECTRICAL PLANS
E-2	LEGEND
E-3 TO E-68	BACKHAUL COMMUNICATIONS SYSTEM
E-69	ELECTRICAL DETAILS (WALNUT CREEK BART SPLICE VAULT)
E-70	ELECTRICAL DETAILS (FIBER OPTIC PULL BOX)
E-71	ELECTRICAL DETAILS (FIBER OPTIC SPLICE VAULT)
E-72	ELECTRICAL DETAILS (TRUNKLINE MODIFICATION)
E-73	ELECTRICAL DETAILS (FIBER OPTIC CONDUIT AND TRENCH DETAIL)
E-74	ELECTRICAL DETAILS (FIBER OPTIC MARKER)
E-75	ELECTRICAL DETAILS (HUB CABINET CONTENTS DETAIL)
E-76	ELECTRICAL DETAILS (HUB CABINET FOUNDATION)
E-77	ELECTRICAL DETAILS (HUB CABINET DETAIL)
E-78	ELECTRICAL DETAILS (I-680 NETWORK OVERVIEW)
E-79 TO E-80	ELECTRICAL QUANTITIES (BACKHAUL)
E-81	ELECTRICAL DETAILS (BAIFA-OAKLAND HUB FIBER OPTIC SPLICE DIAGRAM)
E-82 TO E-83	ELECTRICAL DETAILS (WEST DUBLIN HUB FIBER OPTIC SPLICE DIAGRAM)
E-84 TO E-85	ELECTRICAL DETAILS (WALNUT CREEK HUB FIBER OPTIC SPLICE DIAGRAM)
E-86	ELECTRICAL DETAILS (WALNUT CREEK MAINTENANCE YARD BRANCH CABLE SPLICE DIAGRAM)
E-87	ELECTRICAL DETAILS (WALNUT CREEK MAINTENANCE YARD FIBER OPTIC SPLICE DIAGRAM)
E-88 TO E-90	ELECTRICAL DETAILS (BENICIA TOLL PLAZA FIBER OPTIC SPLICE DIAGRAM)
E-91	ELECTRICAL DETAILS (CALTRANS TMC FIBER OPTIC SPLICE DIAGRAM)
E-92 TO E-106	ELECTRICAL DETAILS (TRUNKLINE SPLICE CABINET SPLICE DIAGRAM)
E-107	ELECTRICAL DETAILS (SERVICE EQUIPMENT ENCLOSURE TYPICAL WIRING DIAGRAM)
E-108	ELECTRICAL DETAILS (BORE PIT BACKFILL)

ABBREVIATIONS:

(SEE RSP ES-1A, RSP ES 1-B, RSP ES-1C)

BAIFA	BAY AREA INFRASTRUCTURE FINANCING AUTHORITY
BART	BAY AREA RAPID TRANSIT
BATA	BAY AREA TOLL AUTHORITY
BOH	BAIFA OAKLAND HUB
CALTRANS	CALIFORNIA DEPARTMENT OF TRANSPORTATION
E	ELECTRIC
FOB	FACE OF BARRIER
FOT	FIBER OPTIC TRUNKLINE
ITS	INTELLIGENT TRANSPORTATION SYSTEM
MPOE	MAIN POINT OF ENTRY
MTC	METROPOLITAN TRANSPORTATION COMMISSION
PDU	POWER DISTRIBUTION UNIT
PG&E	PACIFIC GAS & ELECTRIC
SMFO	SINGLE MODE FIBER OPTIC
STR	STRAND
†c	TELEPHONE CABLE
†vl	TELEVISION VIDEO CABLE
†vc	TELEVISION CONTROL CABLE
†vp	TELEVISION POWER CABLE
†vcp	TELEVISION CONTROL POWER CABLE
TMC	TRAFFIC MANAGEMENT CENTER
TSC	TRUNKLINE SPLICE CABINET
UPS	UN-INTERRUPTED POWER SUPPLY

LEGEND:

(SEE RSP ES-1A, RSP ES 1-B, RSP ES-1C)

NEW	EXISTING	
		BAIFA HUB CABINET ASSEMBLY, DOOR INDICATES FRONT OF CABINET
SV	SV	FIBER OPTIC SPLICE VAULT (SEE SHEET E-84 FOR INSTALLATION DETAIL)
		BART ACCESS POINT
FB	fb	FIBER OPTIC PULL BOX (SEE SHEET E-83 FOR INSTALLATION DETAIL)
		TRUNKLINE SPLICE CABINET (TSC), TYPE P

NOTES, LEGEND, ABREVIATIONS, AND INDEX OF ELECTRICAL PLANS

E-1

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	KAI CHAN

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REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp. 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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LEGEND:

1. INSTALL BAIFA HUB CABINET ASSEMBLY MINIMUM 30′ FROM EDGE OF TRAVELED WAY OR 4′ MINIMUM BEHIND FACE OF BARRIER. SEE SHEETS E-88 THROUGH E-90 FOR FOUNDATION AND EQUIPMENT INSTALLATION DETAILS.
2. PROVIDE 30′ OF 144 STR SMFO CABLE SLACK IN EXISTING PULL BOX. SEE DETAIL D ON SHEET E-85.
3. PROVIDE 30′ OF 144 STR SMFO CABLE SLACK IN NEW PULL BOX. SEE DETAIL D ON SHEET E-85.
4. SPLICE 144 STR SMFO IN NEW FIBER SPLICE CLOSURE. SEE DETAILS ON SHEETS E-94 THROUGH E-118.
5. Exist 3"C, 2-72 STR SMFO CABLE. RC 2-72 STR SMFO CABLES. INSTALL 12 STR SMFO CABLE.
6. Exist 3"C, 72 STR SMFO CABLE. RC 72 STR SMFO. INSTALL 144 STR SFMO CABLE.
7. INSTALL 3"C, 144 STR SMFO CABLE AND 24 STR SMFO CABLE.
8. Exist 3"C, 1-12 STR SMFO CABLE. RC 12 STR SMFO. INSTALL 12 STR SFMO CABLE.
9. Exist 3"C, PT. INSTALL 72 STR SMFO, 6 STR SMFO CABLES.
10. INSTALL 3"C, 24 STR SMFO CABLE.
11. Exist 3"C, PT. INSTALL 1-144 STR SMFO CABLE.
12. PROVIDE 150′ OF 144 STR SMFO CABLE SLACK IN EXISTING PULL BOX. SEE DETAIL D ON SHEET E-85.
13. INSTALL 1-72 STR SMFO CABLE. ROUTE CABLE THROUGH Exist. ELECTRICAL CHASE AS DIRECTED BY ENGINEER.
14. INSTALL FIBER OPTIC SPLICE VAULT. SEE SHEET E-84 FOR INSTALLATION DETAILS.
15. INSTALL 2"C, 2#6 (120 / 240 V), 1#6 (GROUND).
16. INSTALL FIBER OPTIC SPLICE CLOSURE IN BOX. SEE SHEETS E-94 THROUGH E-118 FOR FIBER SPLICING DIAGRAMS.
17. RC EXISTING PULL BOX AND CONNECT EXISTING TRUNKLINE CONDUIT FOR FIBER OPTIC CABLE. SEE DETAIL B ON SHEET E-85.
18. RC Exist No. 6 PULL BOX AND INSTALL FIBER OPTIC PULL BOX WITH EXTENSIONS AND MODIFY EXISTING CONDUIT RUNS AS REQUIRED FOR FIBER OPTIC INSTALLATION. SEE DETAIL A ON SHEET E-85.
19. INSTALL 1-144 STR SMFO CABLE. ROUTE CABLE THROUGH Exist ELECTRICAL CHASE AS DIRECTED BY ENGINEER.
20. Exist 2-2"C, PT. INSTALL 2#6 (120 / 240 V SERVICE), 1#6 (GROUND) IN CONDUIT AS DIRECTED BY ENGINEER.
21. INSTALL 3"C, 24 STR SMFO CABLE AND 72 STR SMFO CABLE.
22. Exist 3"C, 72 STR SMFO CABLE. RC 72 STR SMFO CABLE AND INSTALL 72 STR SMFO CABLE.
23. Exist 2"C, 1-tc. RC Exist tc.
24. Exist 2"C, 1-tc. RC Exist tc. INSTALL 144 STR SMFO CABLE.
25. INSTALL TYPE III-AF SERVICE EQUIPMENT ENCLOSURE. REFER TO SERVICE WIRING DIAGRAM ON E-105 AND PROVIDE ALL EQUIPMENT ITEMS INDICATED ON PLANS. INSTALL WITH 30′ MINIMUM CLEARANCE BETWEEN EDGE OF TRAVELED WAY AND NEAREST EDGE OF CABINET.
26. TERMINATE BACKHAUL FIBER IN EXISTING BART COMMERCIAL FIBER OPTIC MANHOLE. SEE SHEET E-68A FOR ADDITIONAL DETAIL
27. Exist 2-3"C, CALTRANS FO CABLE. INSTALL 144 STR SMFO CABLE IN EMPTY CONDUIT AS DIRECTED BY THE ENGINEER.
28. Exist 4-3"C, CALTRANS FO CABLE. INSTALL 144 STR SMFO CABLE IN EMPTY CONDUIT AS DIRECTED BY THE ENGINEER.
29. SPLICE NEW FIBER OPTIC CABLE TO EXISTING FIBER OPTIC CABLE IN EXISTING CALTRANS VAULT. SEE SPLICE DIAGRAMS ON SHEET E-94 THROUGH E-118.
30. Exist 3"C, 72 STR SMFO CABLE. RC 72 STR SMFO. INSTALL 144 STR SMFO CABLE AND 12 STR SMFO CABLE.
31. Exist 3"C, 72 STR SMFO. INSTALL 72 STR SMFO CABLE.
32. PROVIDE 30′ OF 24 STR SMFO CABLE SLACK IN NEW PULL BOX. SEE DETAIL D ON SHEET E-85.
33. Exist 2-3"C, PT. INSTALL 144 STR SMFO CABLE IN EMPTY CONDUIT AS DIRECTED BY THE ENGINEER.
34. Exist 2"C, BATA SMFO CABLE. INSTALL 144 STR SMFO CABLE IN FABRIC INNERDUCT.
35. INSTALL 2-3"C, 1-144 STR SMFO CABLE.
36. INSTALL 4" DIAMETER PUNCH-OUT HOLE IN WALL OF RAISED FLOOR. PULL SMFO CABLE THROUGH TO Exist RACK.
37. INSTALL 3"C PT, FOR PG&E SERVICE CONDUCTORS. COORDINATE WITH BAIFA ENGINEER PRIOR TO CONDUCTING THIS WORK. TRENCH AND CONDUIT TO BE INSPECTED BY PG&E.
38. 2"C, 2#2 (120 / 240 V SERVICE), 1#2 (GND).
39. INSTALL 3"C, 48 STR SMFO CABLE.
40. Exist 3"C, 72 STR SMFO. RC 72 STR SMFO CABLE. INSTALL 144 STR SMFO.
41. RC EXISTING PULL BOX. INSTALL NO. 6 (T) WITH EXTENSION AND MODIFY EXISTING CONDUIT RUNS AS REQUIRED FOR FIBER OPTIC CABLE INSTALLATION, SEE DETAIL A AND B ON E-85.
42. Exist CALTRANS FIBER OPTIC SPLICE VAULT. SPLICE 144 STR SMFO CABLE INTO EXISTING BART SMFO CABLE IN NEW SPLICE CLOSURE.
43. Exist 3"C, PT. INSTALL 144 STR SMFO CABLE PER ENGINEER'S DIRECTION.
44. Exist 3"C, 72 STR SMFO CABLE. INSTALL 24 STR SMFO CABLE.
45. COIL 24 STR SMFO CABLE IN EXISTING CABINET. SPLICING TO BE DONE BY OTHERS (BART).
46. NOT USED.
47. NOT USED.
48. Exist. 3"C INSTALL 1-12 STR SMFO CABLE BETWEEN NEW FIBER OPTIC DISTRIBUTION UNIT IN CABINET AND EXISTING FIBER OPTIC DISTRIBUTION UNIT AT WALNUT CREEK MAINTENANCE YARD. COORDINATE WITH ENGINEER PRIOR TO STARTING WORK AT THIS LOCATION.
49. Exist 3"C, 72 STR SMFO CABLE, 12 STR SMFO CABLE. RC 72 STR SMFO CABLE. INSTALL 1-144 STR SMFO CABLE. 12 STR SMFO CABLE TO REMAIN.
50. INSTALL 3" C STUB-UP TO LOOPS.
51. TERMINATE SERVICE CONDUCTOR INTO Exist 60 A CB "HUB CABINET".
52. TERMINATE 12 STR SMFO ON EXISTING FIBER OPTIC DISTRIBUTION UNIT. SEE DETAILS ON SHEETS E-94 THROUGH E-118.
53. Exist 2-3"C, 2-72 STR SMFO CABLE, 12 STR SMFO CABLE. RC 2-72 STR SMFO CABLE. INSTALL 1-12 STR SMFO CABLE.
54. Exist 2-3"C, 72 STR SMFO CABLE, 12 STR SMFO CABLE. RC 72 STR SMFO CABLE, 12 STR SMFO CABLE. INSTALL 144 STR SMFO CABLE, 12 STR SMFO CABLE.
55. Exist 2-3"C, 12 STR SMFO CABLE. RC 12 STR SMFO CABLE. INSTALL 1-12 STR SMFO CABLE.
56. RC Exist SPLICE CLOSURE.
57. INSTALL 3"C, 72 STR SMFO CABLE. RC 72 STR SMFO CABLE.
58. Exist 3"C. INSTALL 12 STR SMFO CABLE.
59. INSTALL CONDUIT VIA HORIZONTAL DIRECTIONAL DRILL METHOD.
60. INSTALL FIBER OPTIC DISTRIBUTION UNIT IN EXISTING CABINET.
61. TERMINATE 12 STR SMFO ON NEW 12 STR FIBER OPTIC DISTRIBUTION UNIT. SEE DETAILS ON SHEETS E-94 THROUGH E-118.
62. Exist 2"C, 1-tc. RC tc. INSTALL 1-12 STR SMFO CABLE.
63. Exist 3"C, 1-tc. INSTALL 1-12 STR SMFO CABLE.
64. Exist 3"C, 1-tvl, 1-tvcp, 1-tvp, 1-tc. RC 1-tc. INSTALL 1-12 STR SMFO CABLE IN FABRIC INNERDUCT.
65. Exist 3"C, 1-tvl, 1-tvp, 1-tvcp, 2-tc. RC 1-tc. INSTALL 1-12 STR SMFO CABLE IN FABRIC INNERDUCT.
66. Exist 3"C, 2-tc. RC 1-tc. Install 1-12 STR SMFO CABLE.
67. Exist 3"C, PT. Install 1-12 STR SMFO CABLE.
68. Exist 3-3"C, PT. Install 1-12 STR SMFO CABLE IN CONDUIT AS DIRECTED BY ENGINEER.
69. Exist 2-3"C. Install 1-12 STR SMFO CABLE IN CONDUIT AS DIRECTED BY ENGINEER.
70. PROVIDE 30′ OF 144 STR SMFO CABLE SLACK IN EXISTING FIBER OPTIC SPLICE VAULT.
71. PROVIDE 30′ OF 144 STR SMFO CABLE SLACK IN NEW FIBER OPTIC SPLICE VAULT.
72. Exist 3"C, 1-72 STR SMFO, 1-12 STR SMFO CABLE. RC Exist 72 STR SMFO CABLE. INSTALL 1-144 STR SMFO CABLE.
73. Exist 2-3"C, 10 dlc, 1-tc. RC tc. INSTALL 1-12 STR SMFO CABLE IN FABRIC INNERDUCT.
74. Exist 3"C, 26 dlc. INSTALL 1-12 STR SMFO CABLE IN FABRIC INNERDUCT.
75. Exist 2"C, 2#2, 4 dlc. INSTALL 1-12 STR SMFO CABLE IN FABRIC INNERDUCT.
76. Exist 2.5"C, 2#2, 10 dlc. INSTALL 1-12 STR SMFO CABLE IN FABRIC INNERDUCT.
77. Exist 3"C, 2#2, 15 dlc. INSTALL 1-12 STR SMFO CABLE IN FABRIC INNERDUCT.
78. Exist 3"C, 12 dlc. INSTALL 1-12 STR SMFO CABLE IN FABRIC INNERDUCT.
79. INSTALL FIBER OPTIC DISTRIBUTION UNIT IN Exist CABINET. TERMINATE 72 STR SMFO CABLE IN NEW FIBER OPTIC DISTRIBUTION UNIT.
80. SPLICE 2-72 STR SMFO CABLE TO 144 STR SMFO IN NEW SPLICE CLOSURE.
81. COIL 50′ OF 12 STR SMFO CABLE IN Exist CABINET FOR FUTURE CONNECTION TO CALTRANS EQUIPMENT.
82. Exist 3"C, 9#14, 1#8, 26 dlc. INSTALL 1-12 STR SMFO CABLE IN FABRIC INNERDUCT.
83. Exist 3"C, 2-72 STR SMFO CABLE. RC 2-72 STR SMFO CABLES. INSTALL 2-12 STR SMFO CABLE.

LEGEND

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	70	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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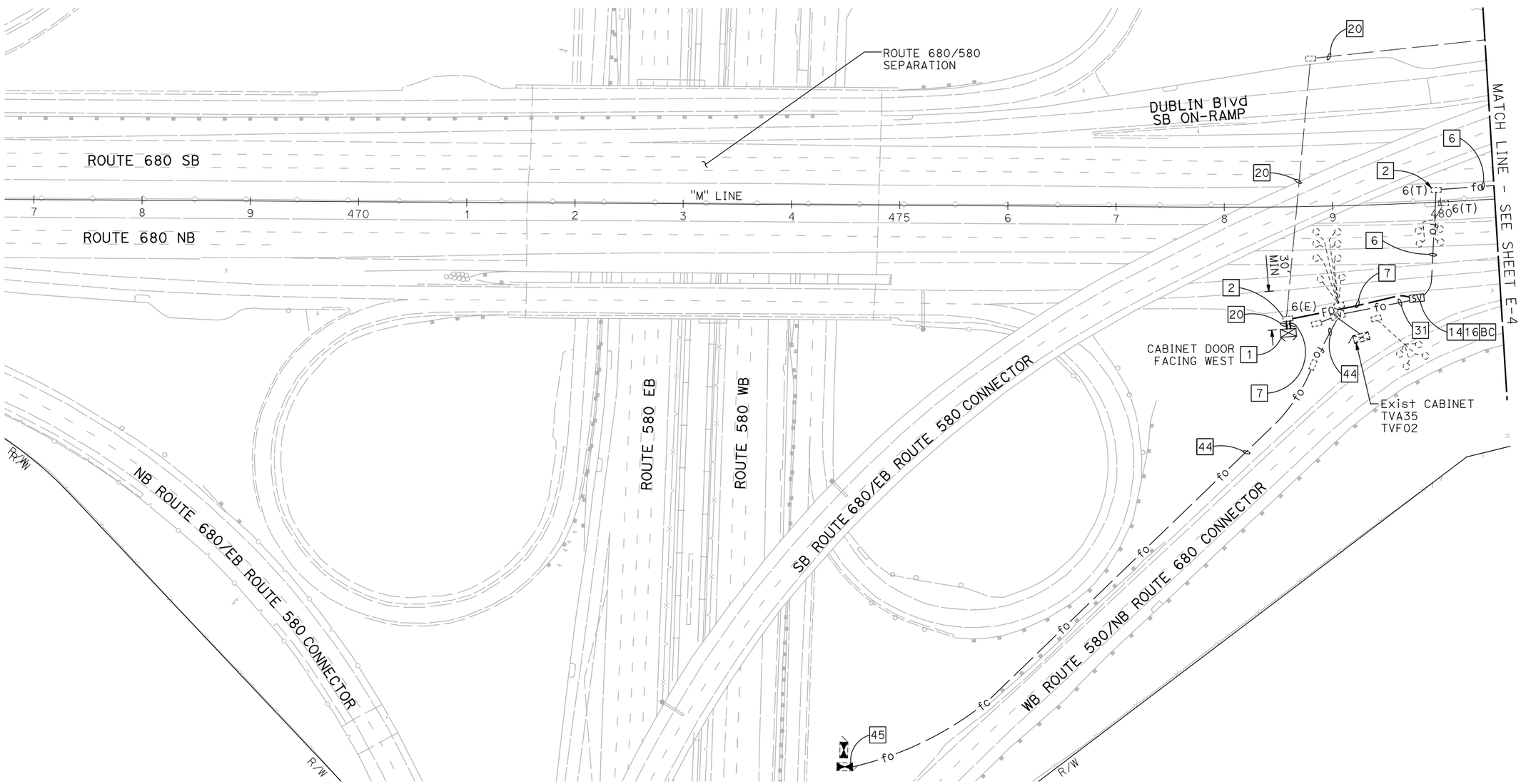

BACKHAUL COMMUNICATIONS SYSTEM
(WEST DUBLIN HUB)

SCALE: 1" = 50'

NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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E-3

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 | DGN FILE => 0414000490ua003.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	71	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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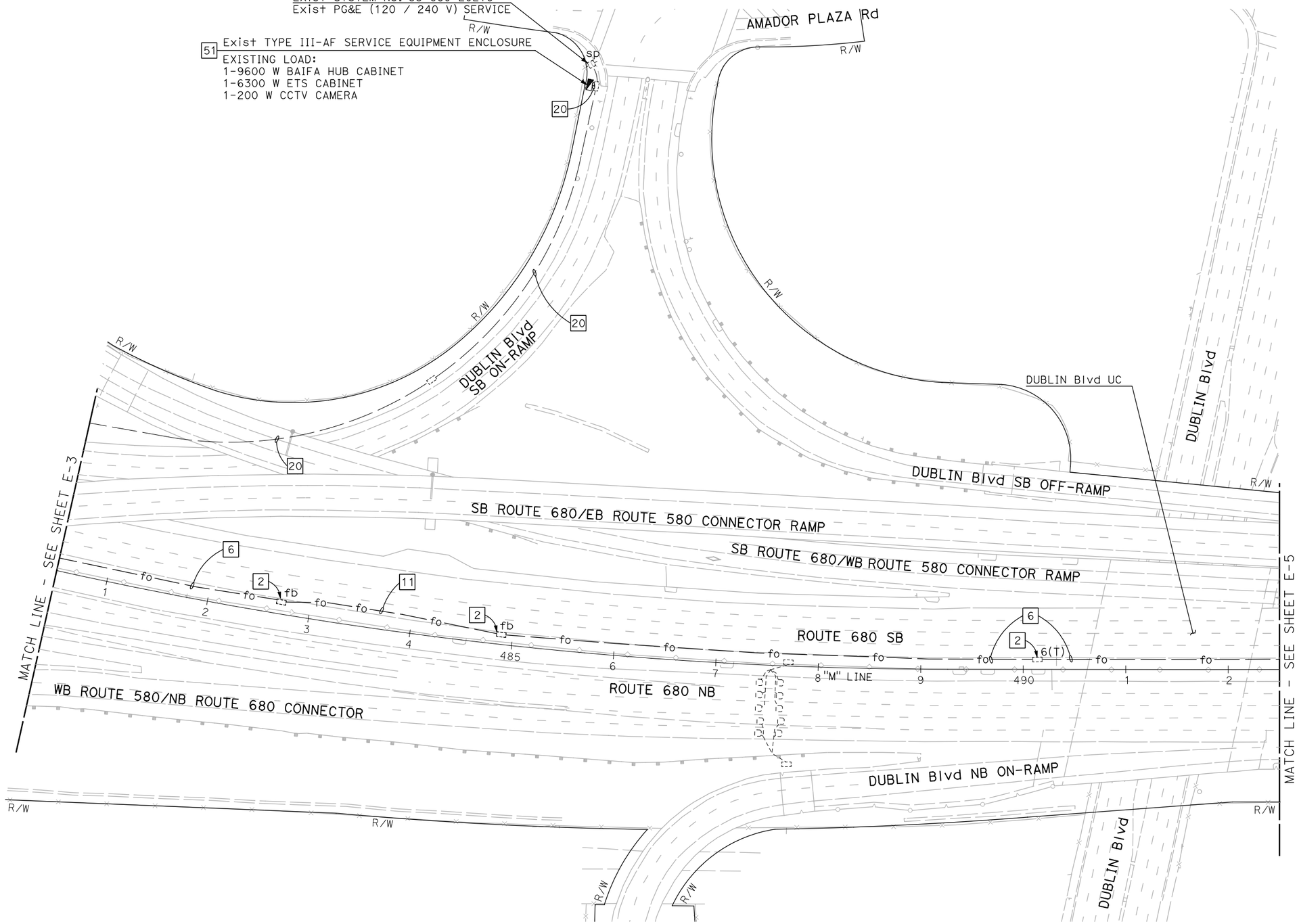

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-4

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	72	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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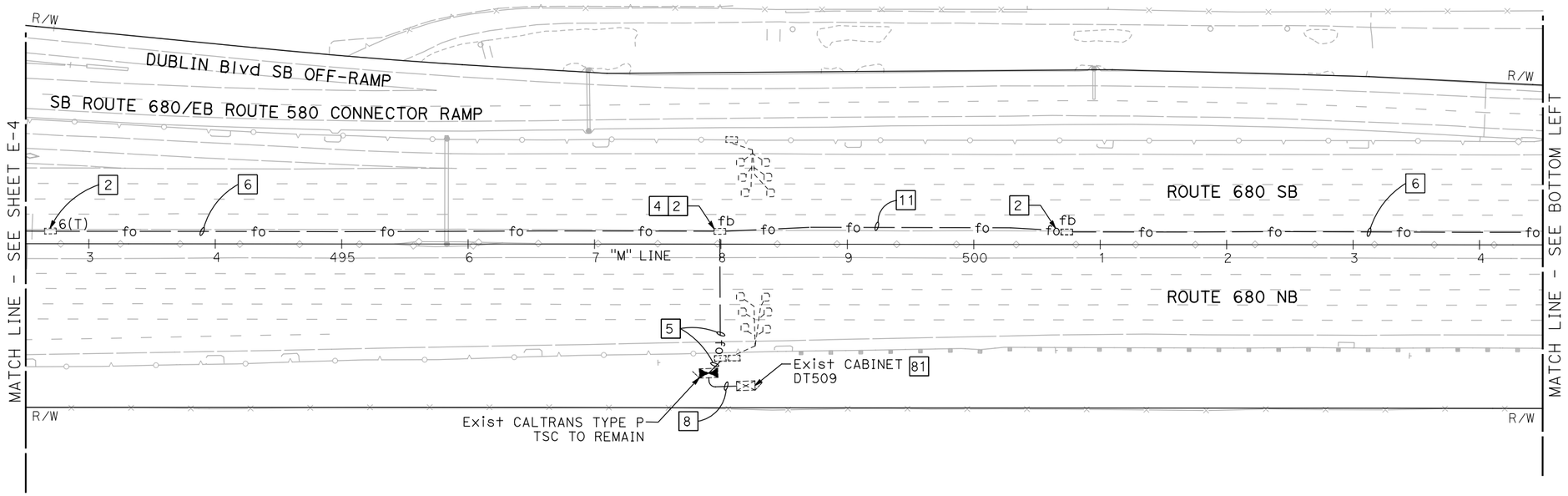

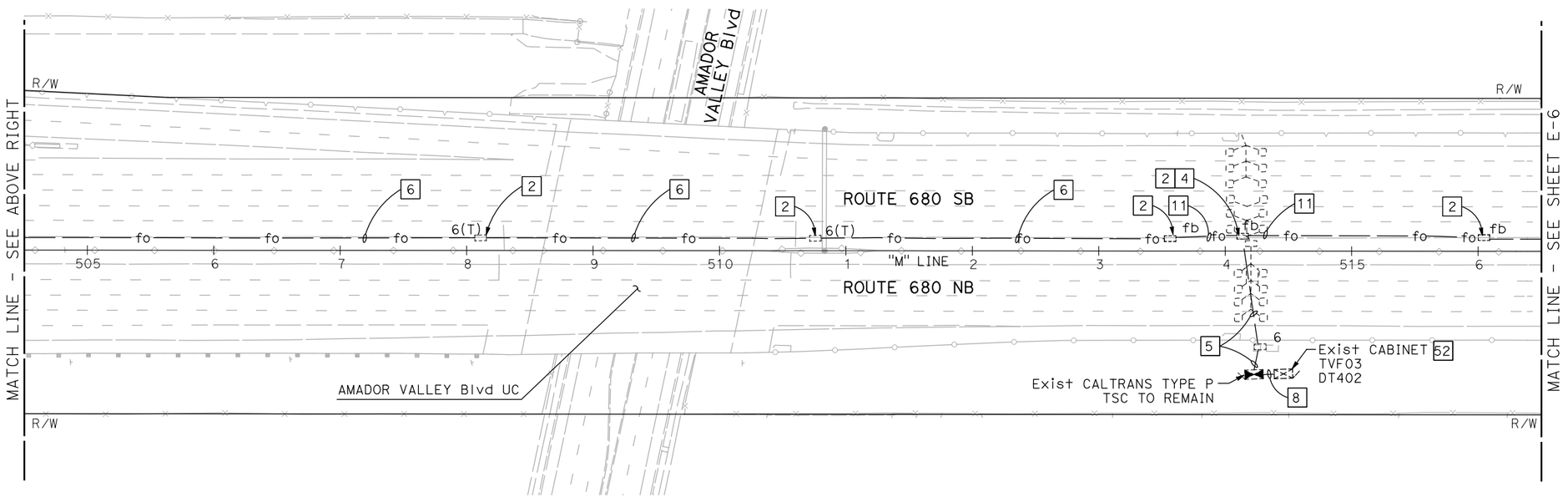

BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	73	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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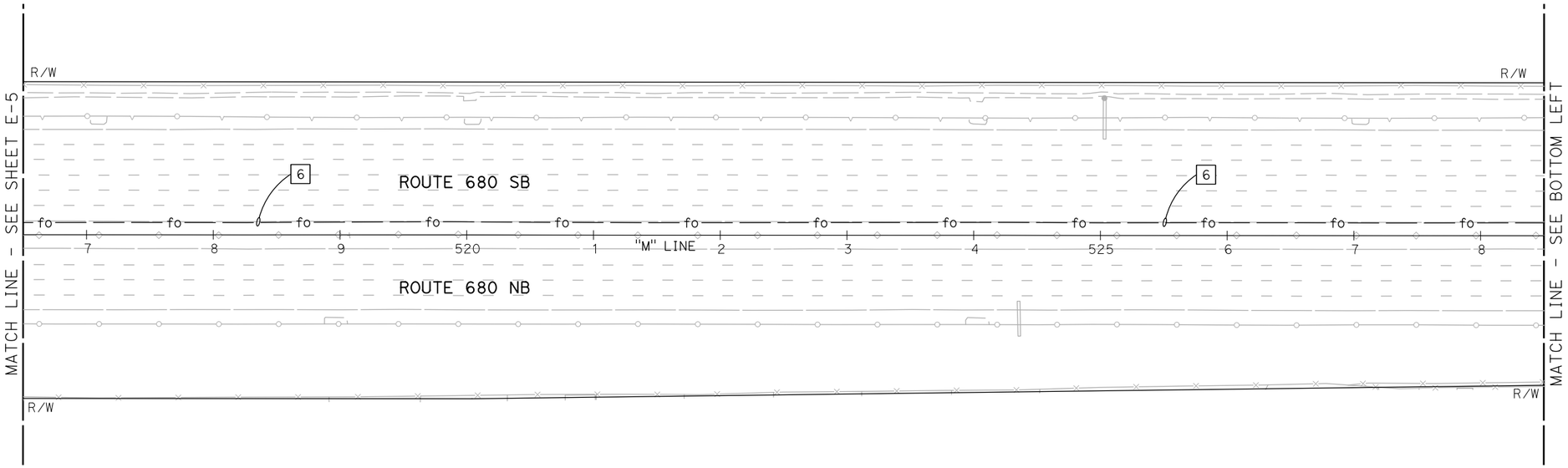

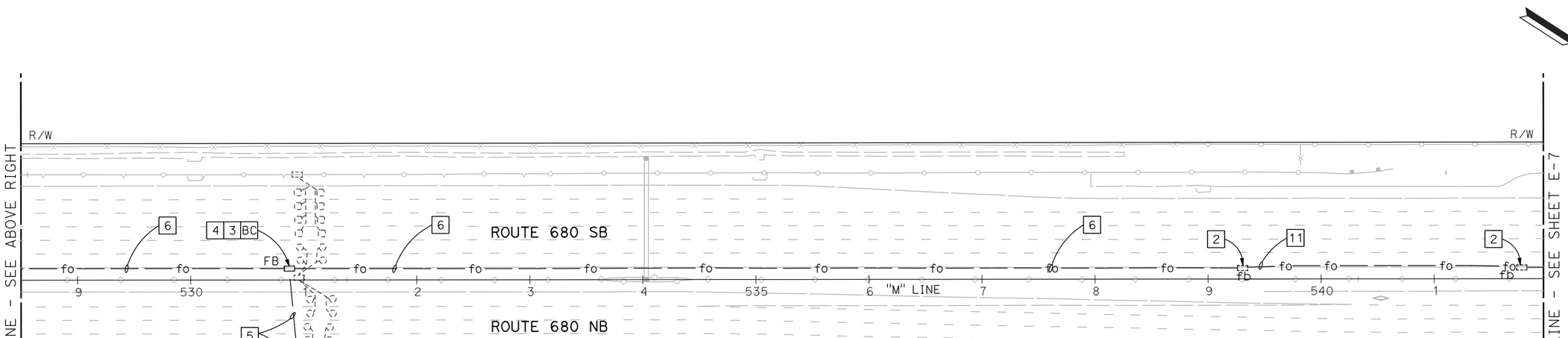

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-6

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	74	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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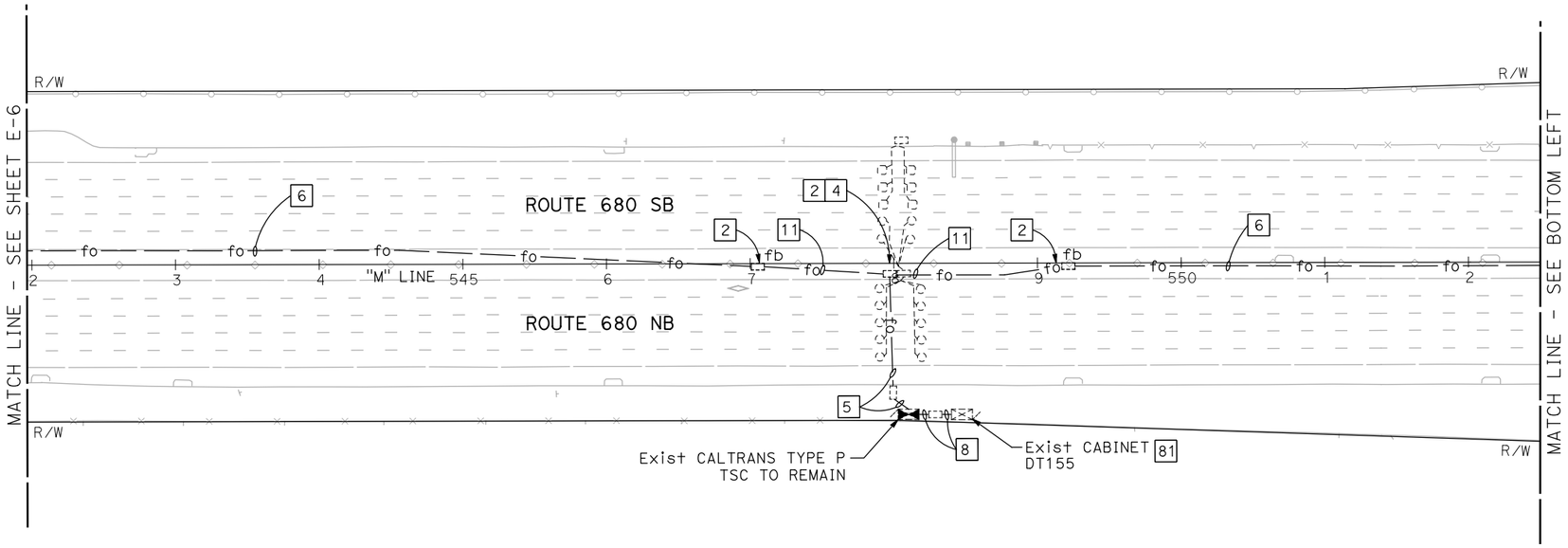

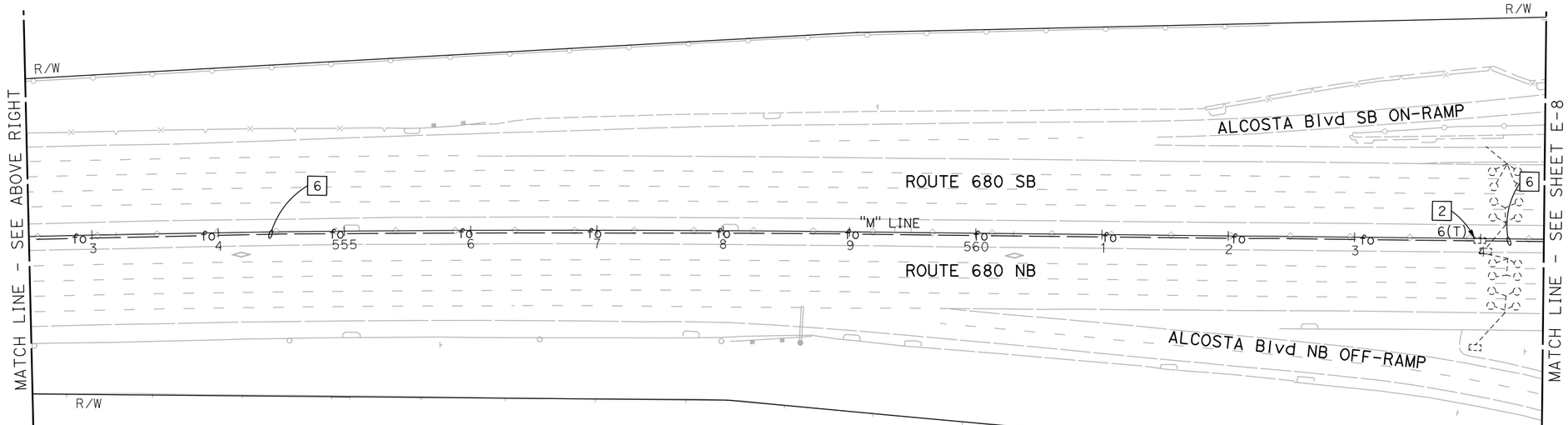

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-7

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	75	175

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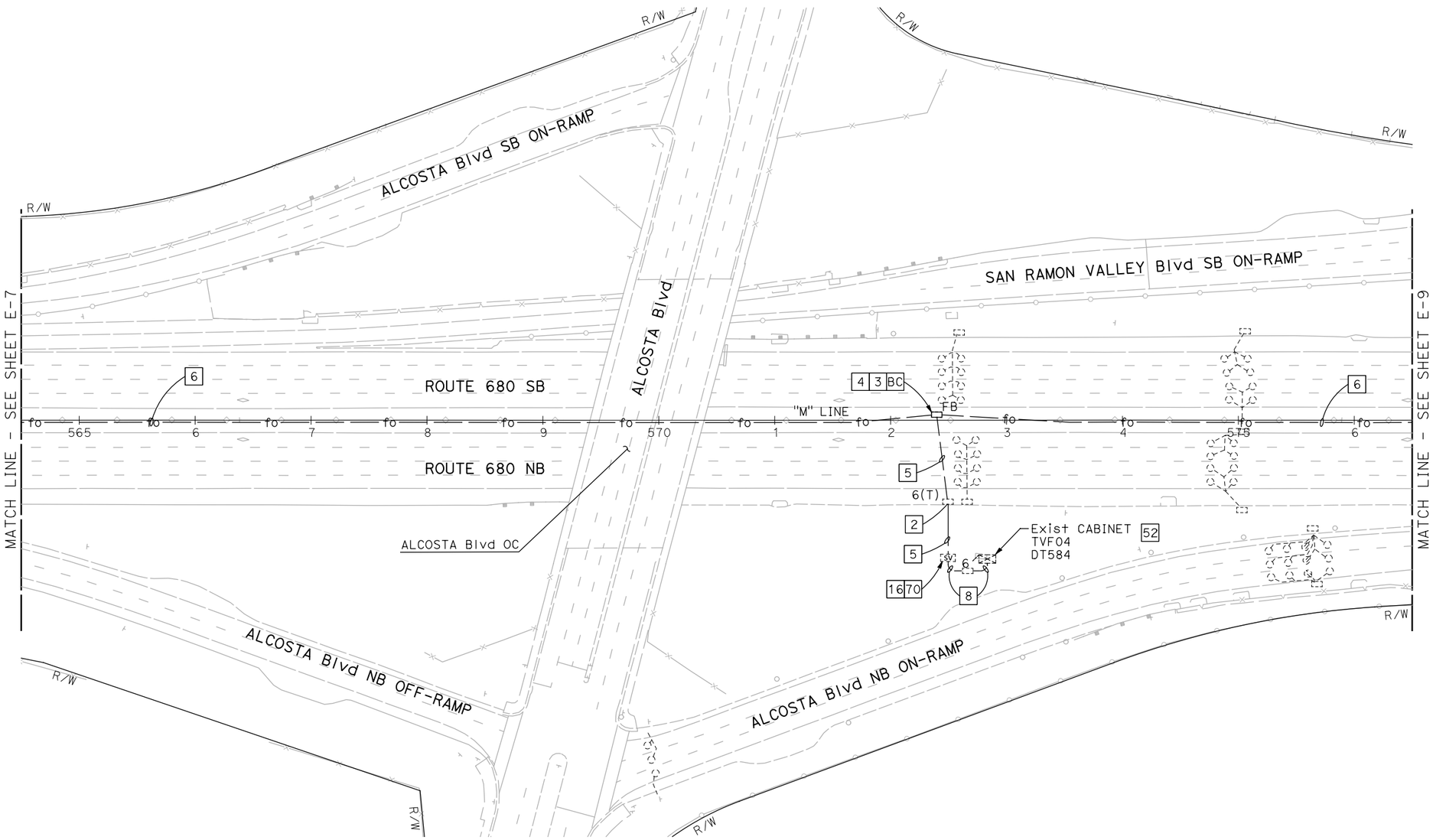

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-8

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	76	175

REGISTERED ELECTRICAL ENGINEER DATE

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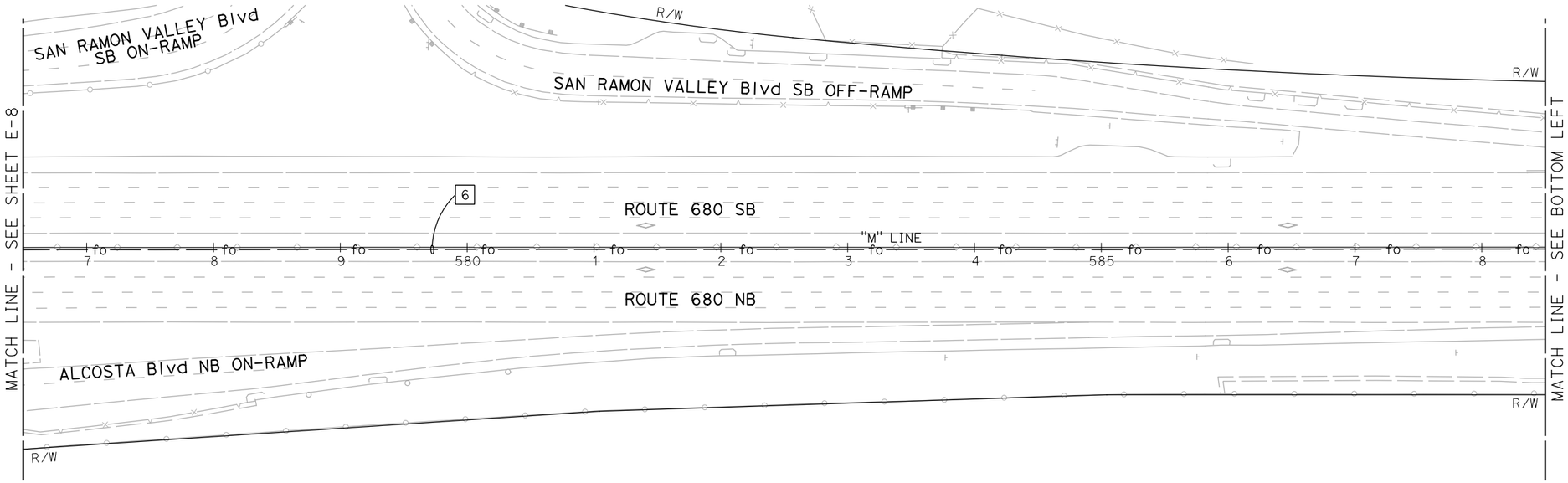

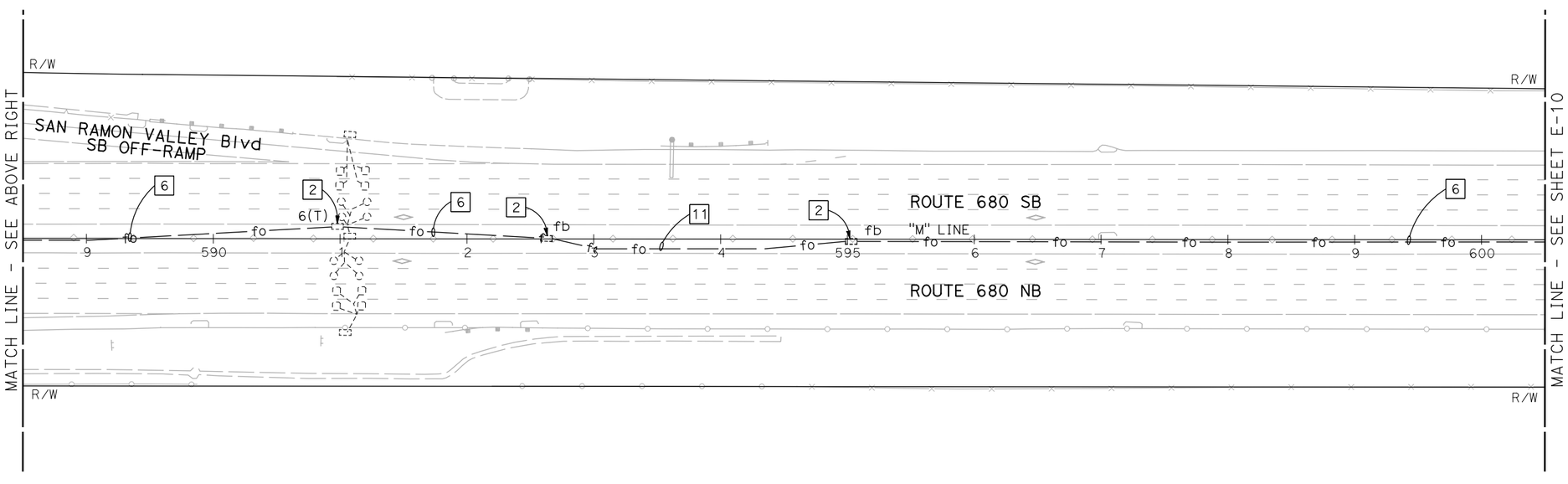

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-9

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	77	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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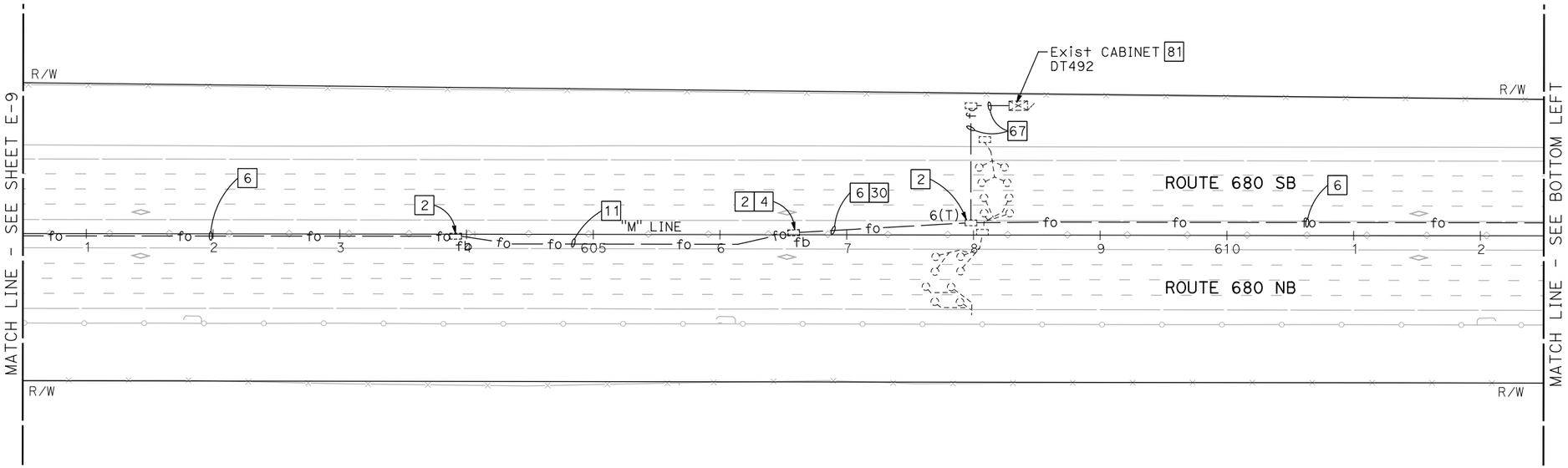

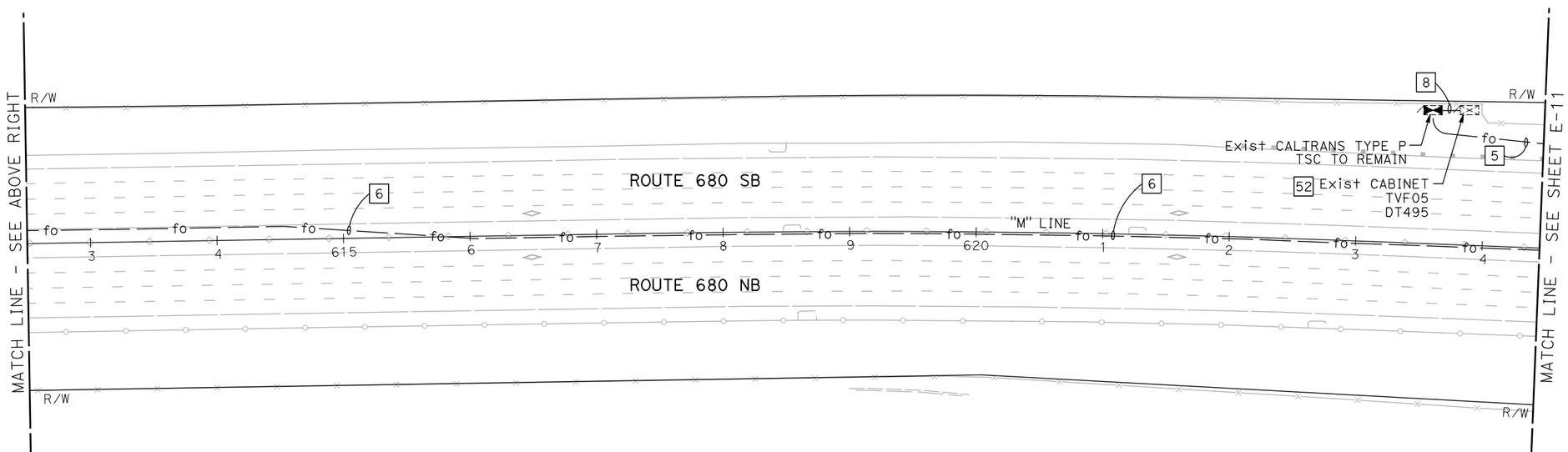

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-10

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	78	175

REGISTERED ELECTRICAL ENGINEER DATE

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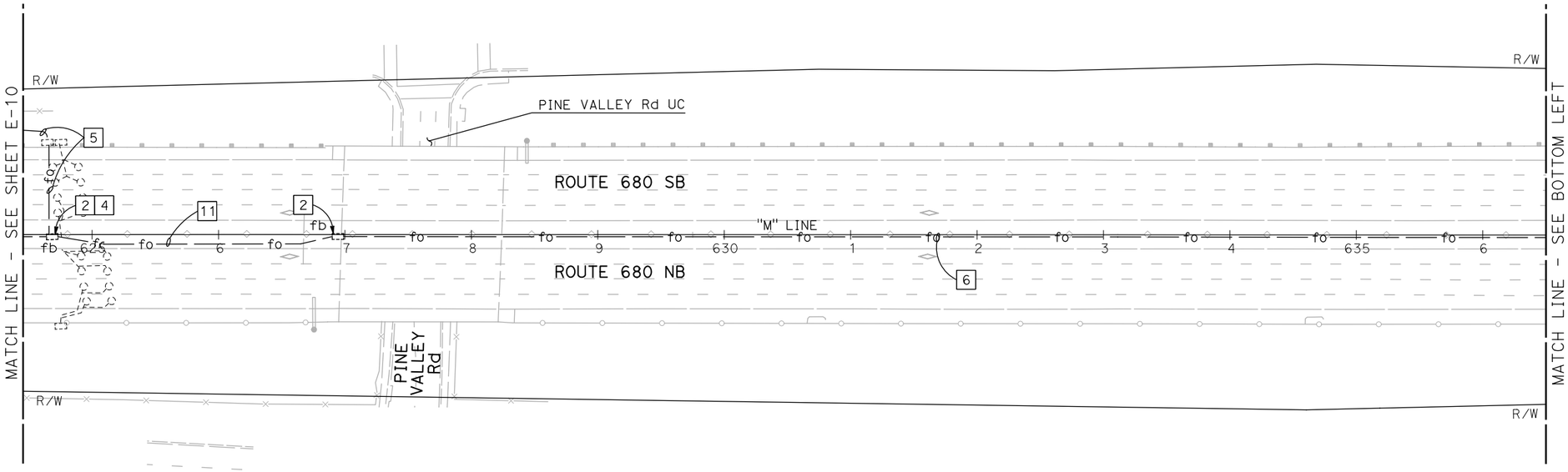

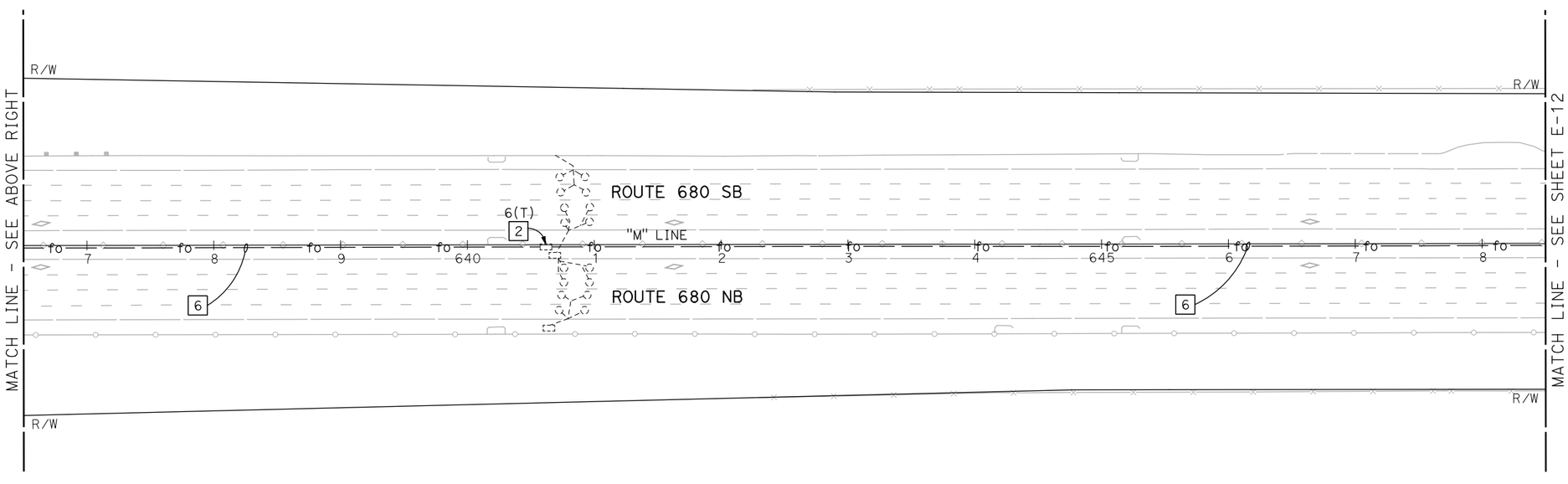

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-11

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	79	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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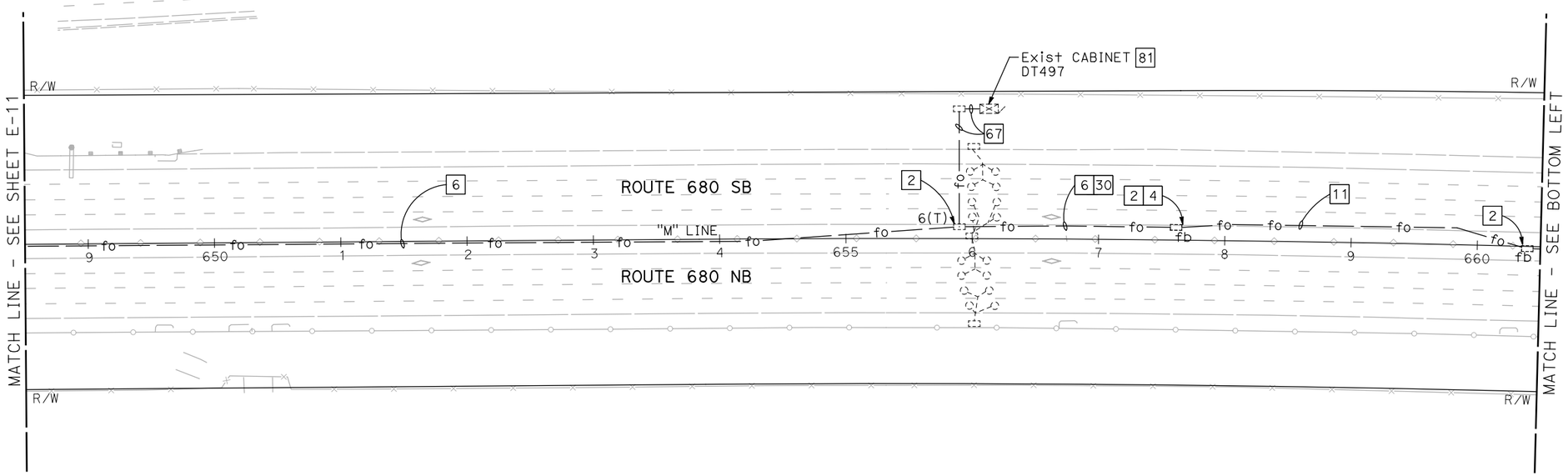

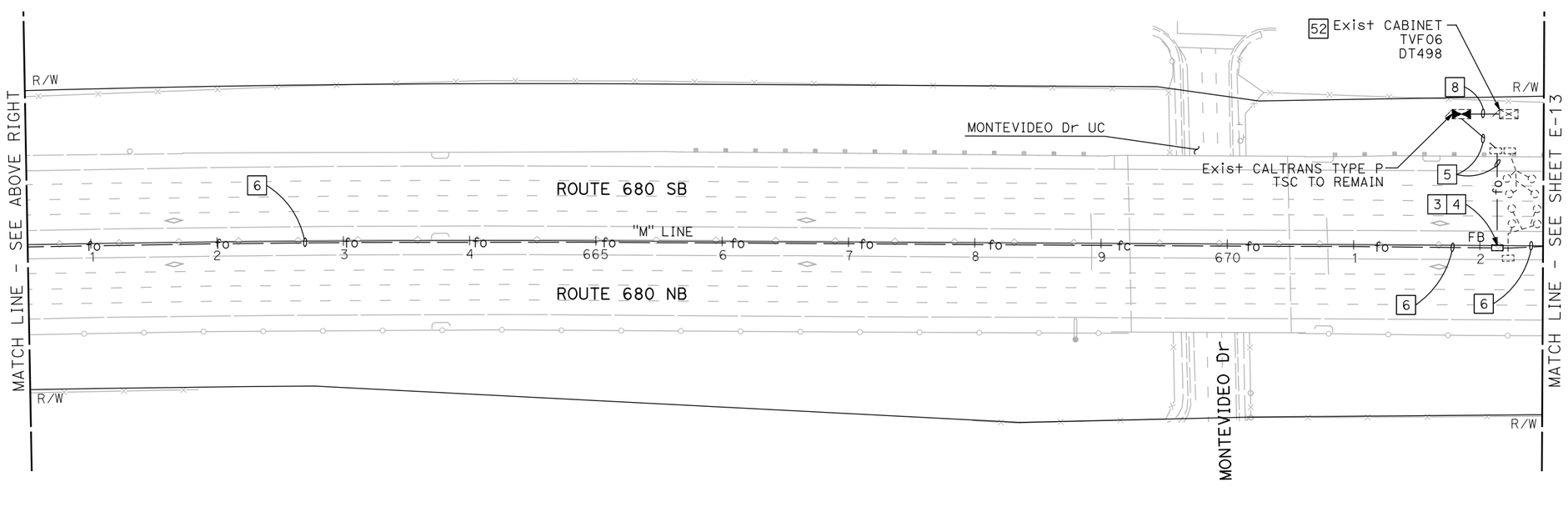

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-12

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	80	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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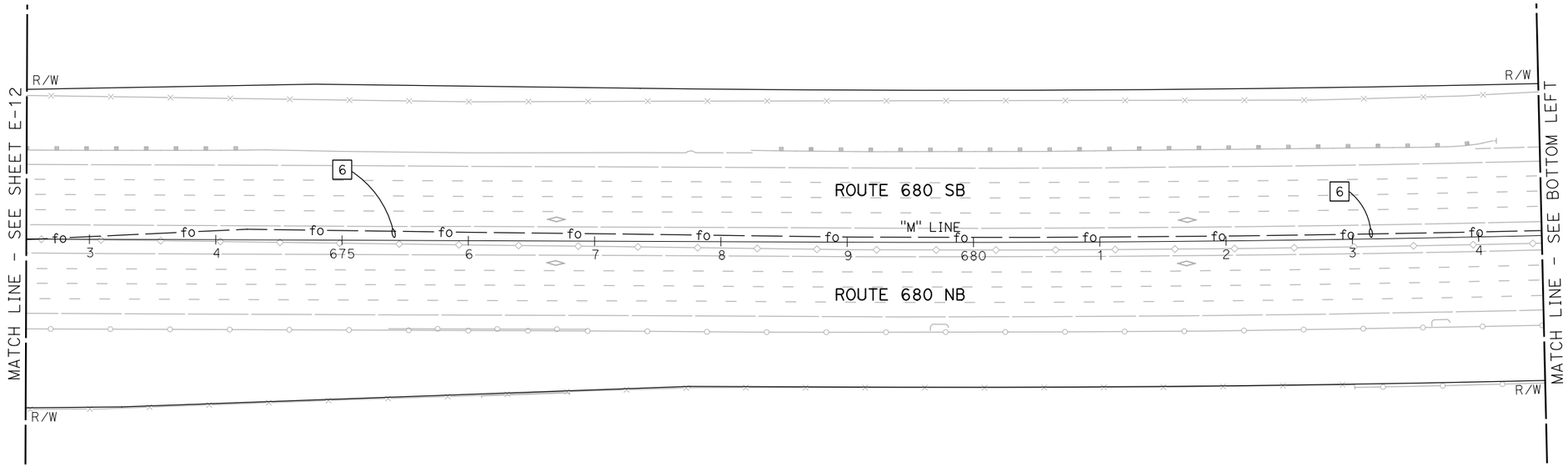

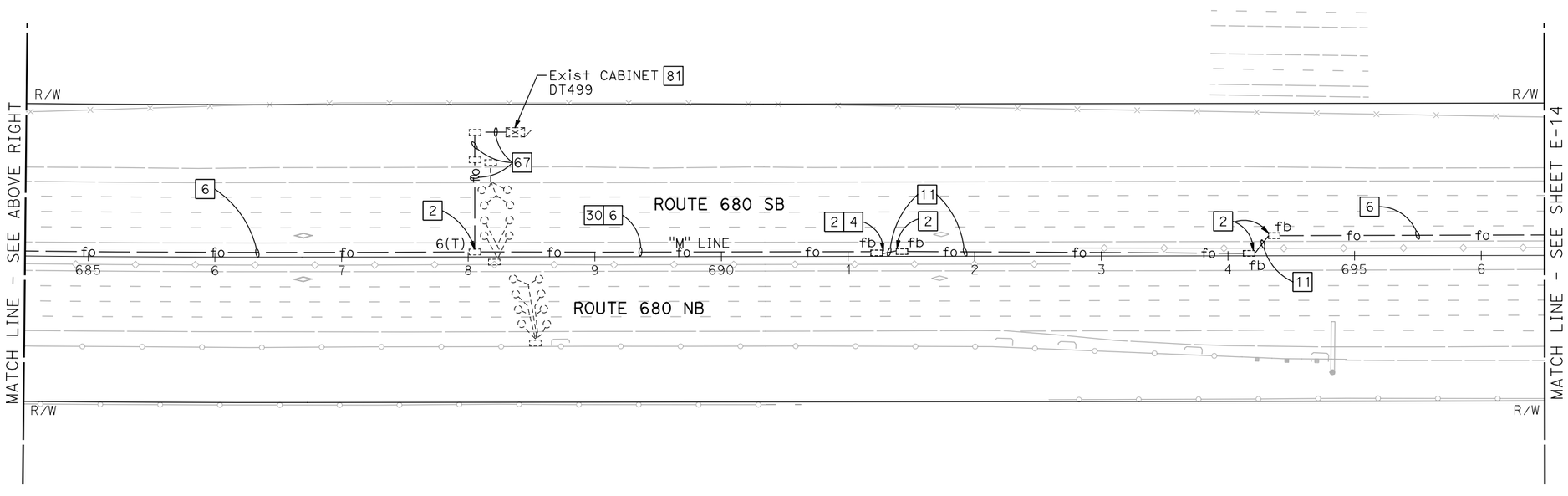

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-13

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	81	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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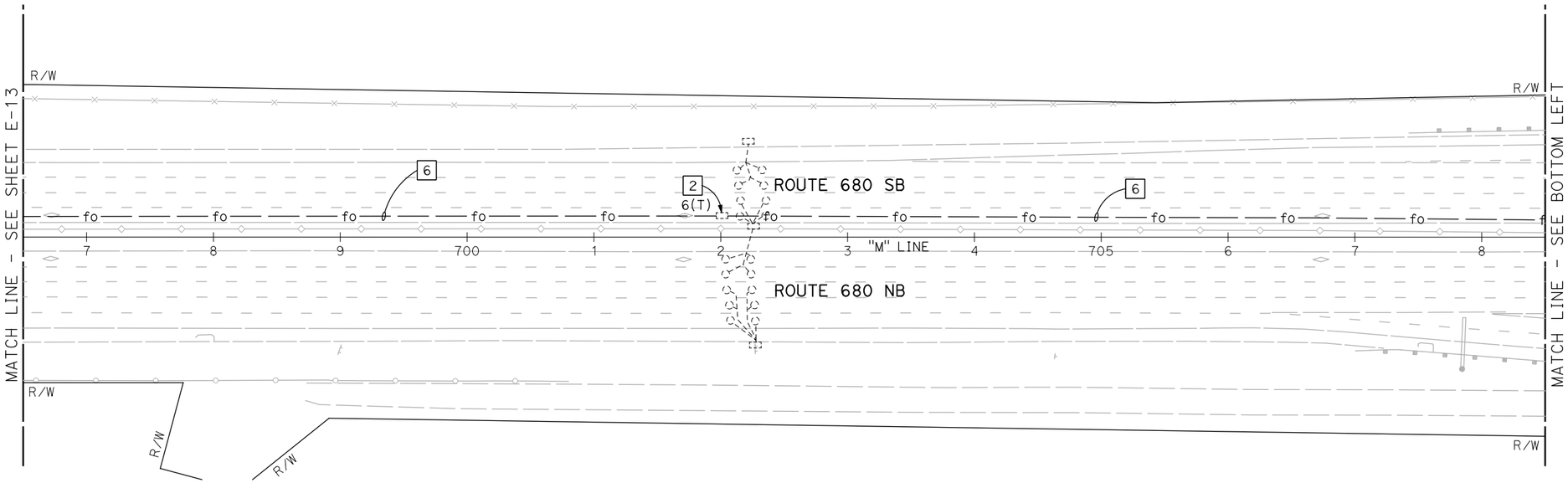

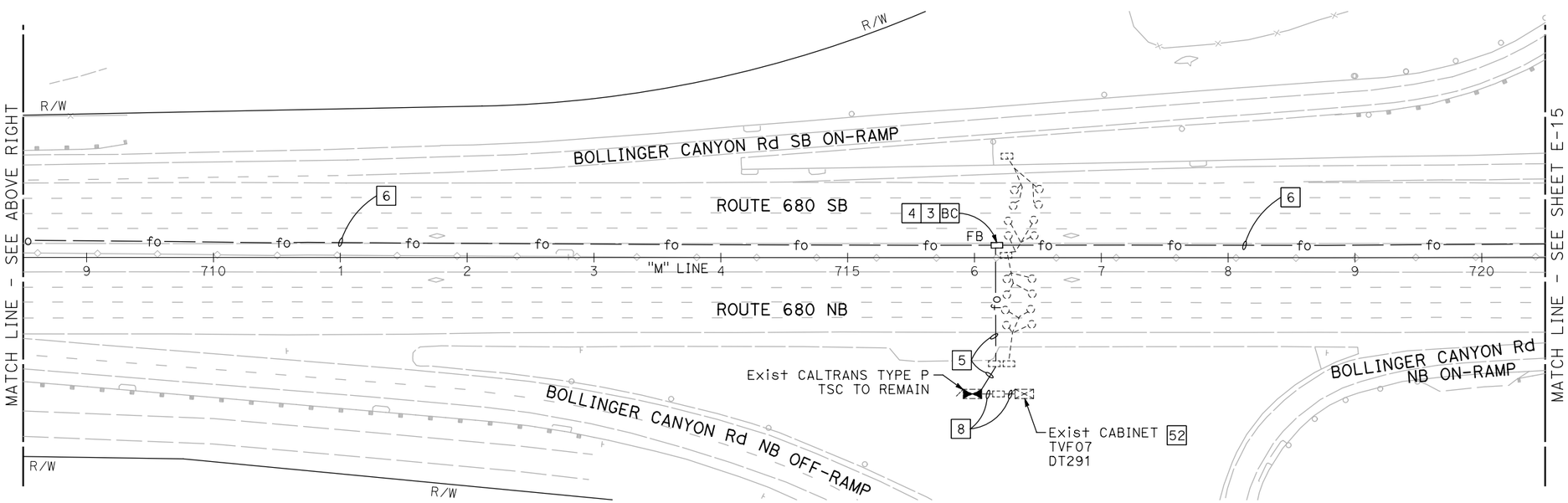

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-14

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	82	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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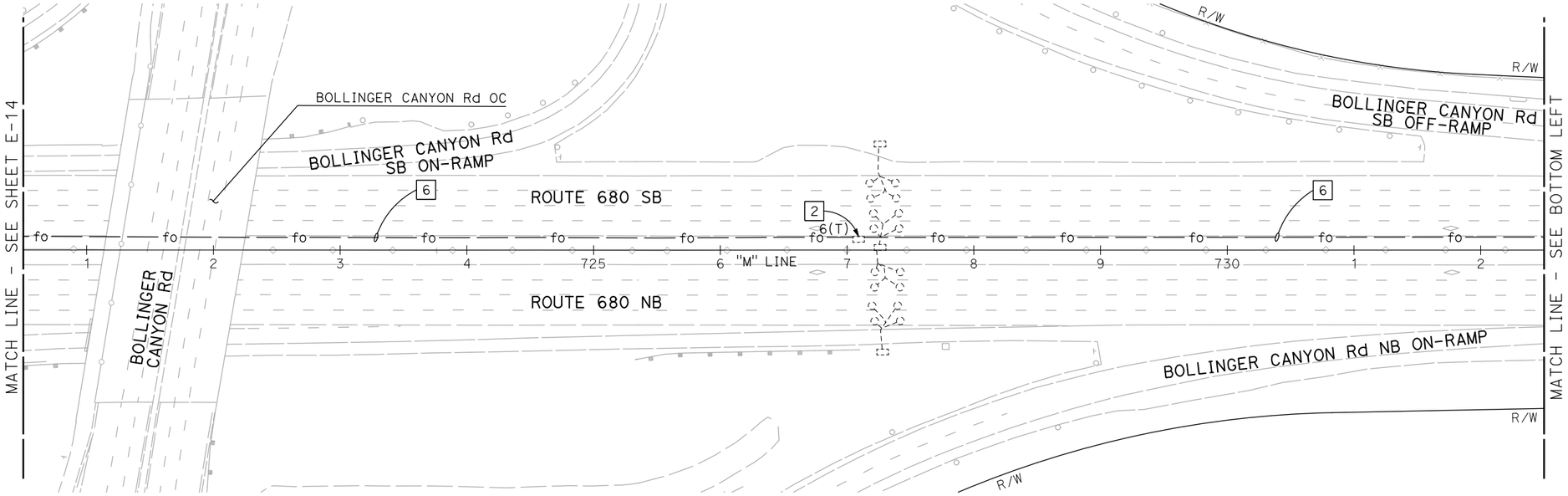

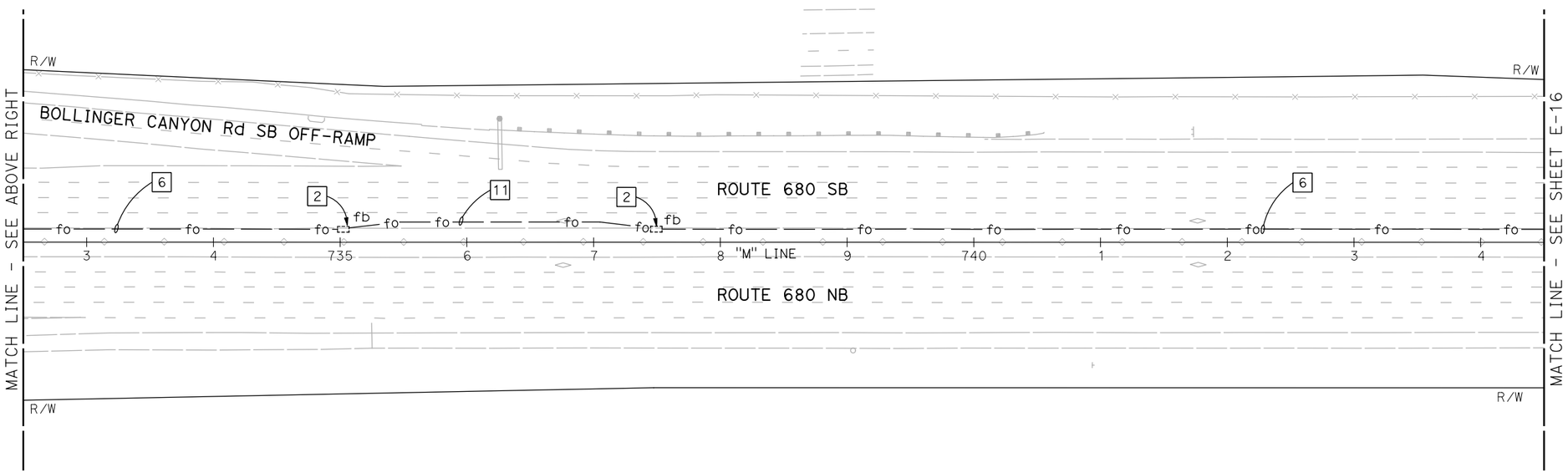

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	83	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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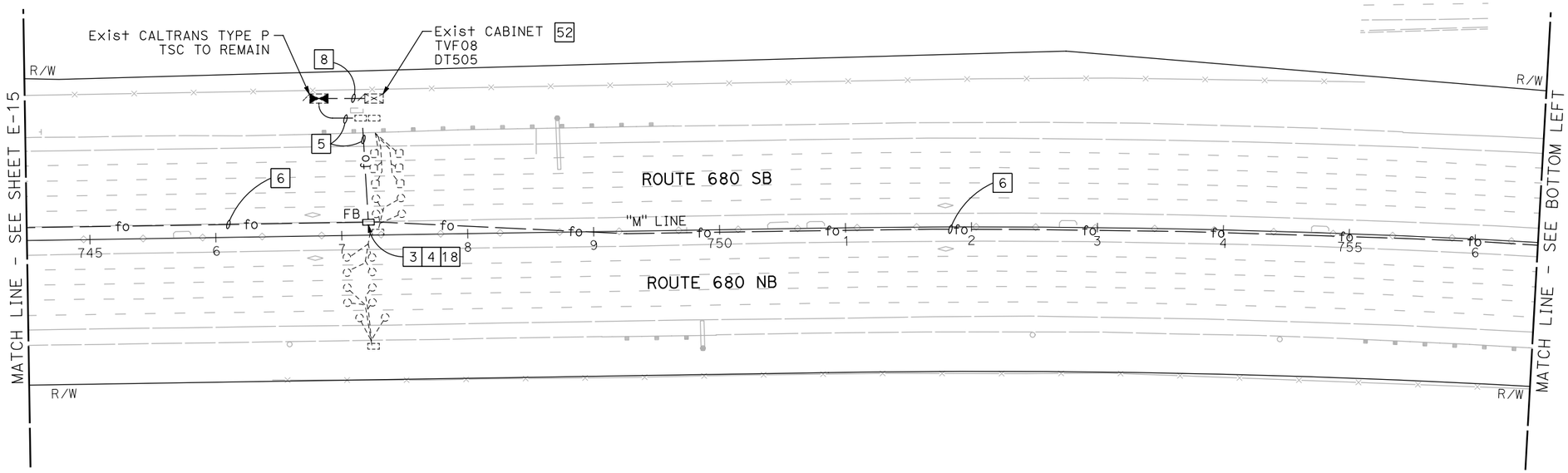

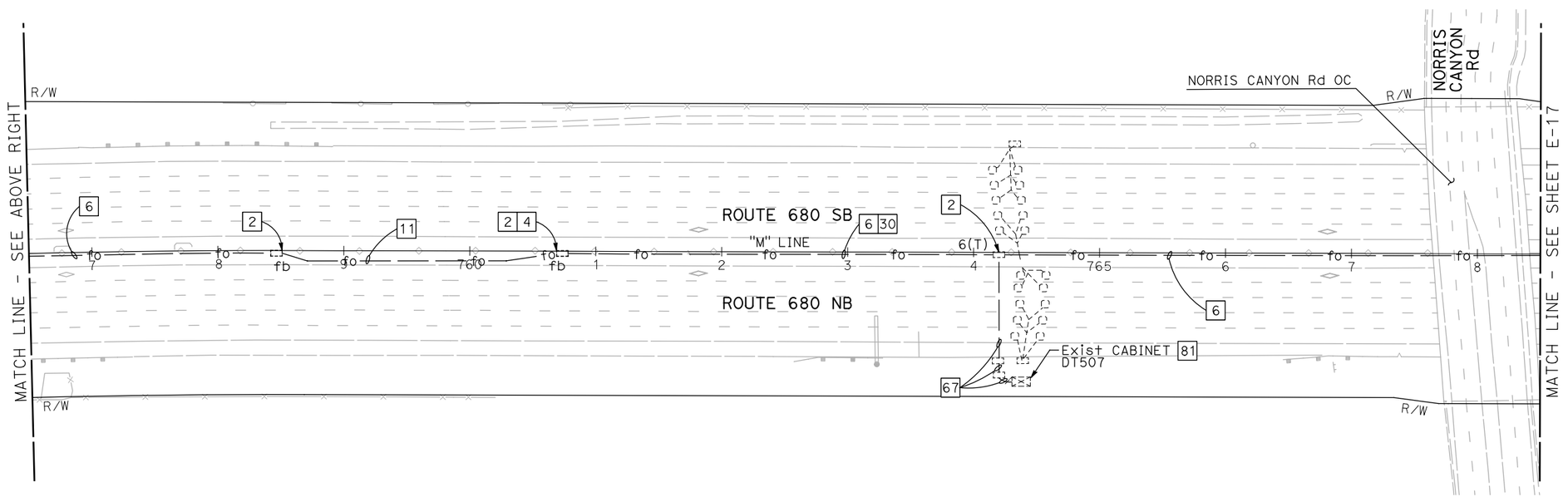

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	84	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp. 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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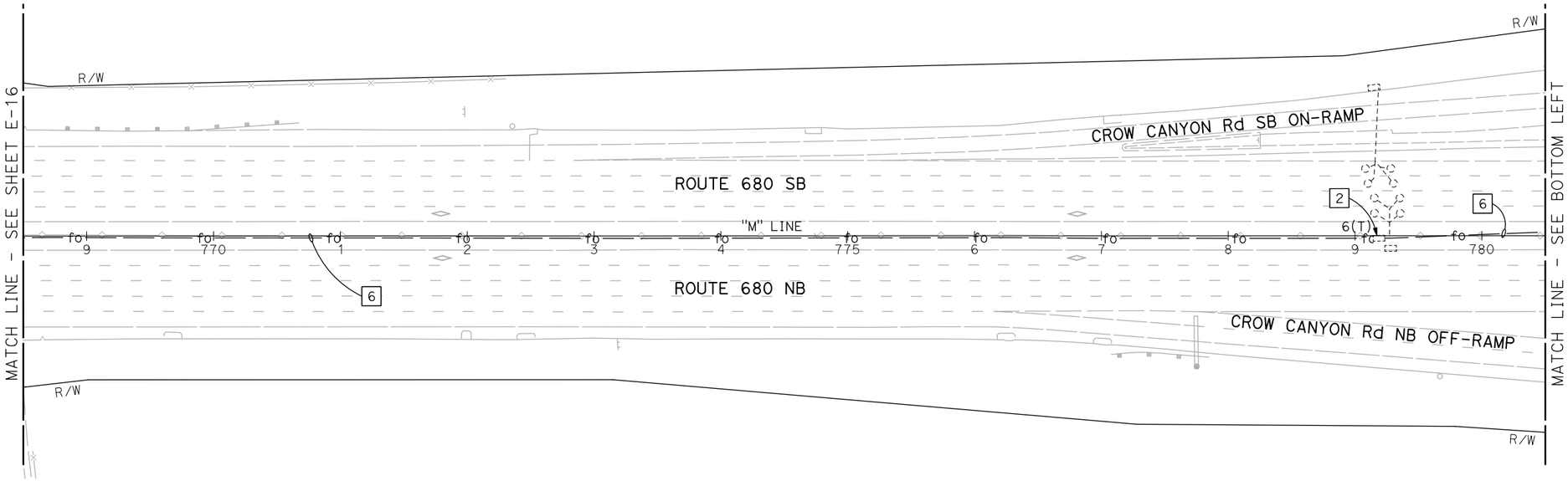

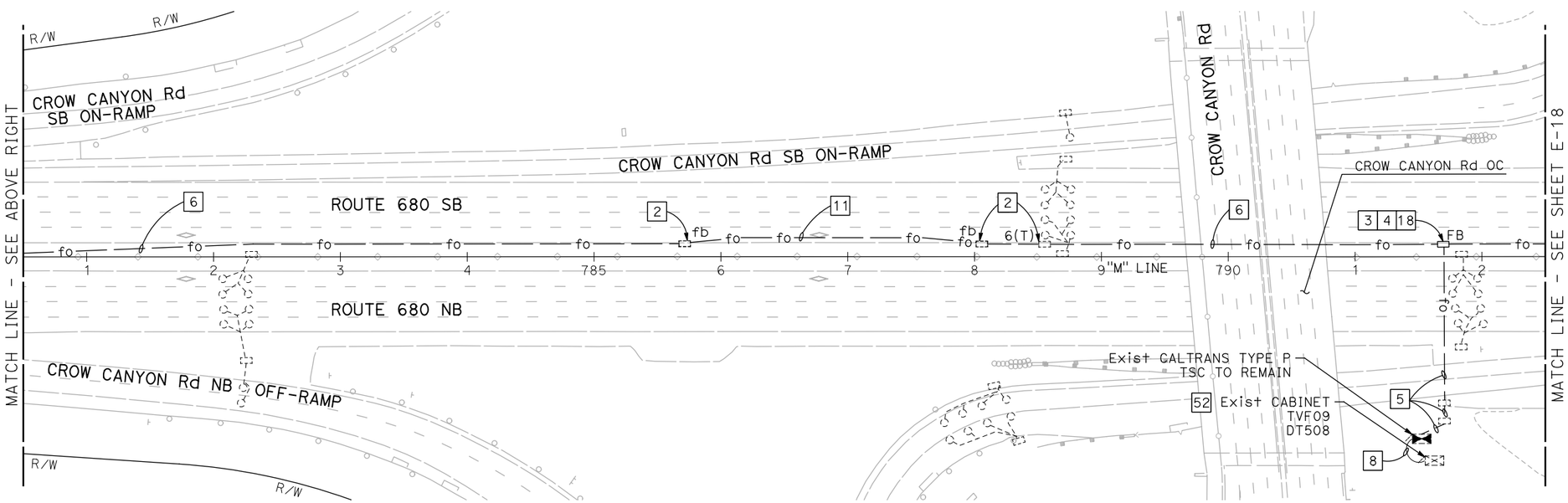

BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	85	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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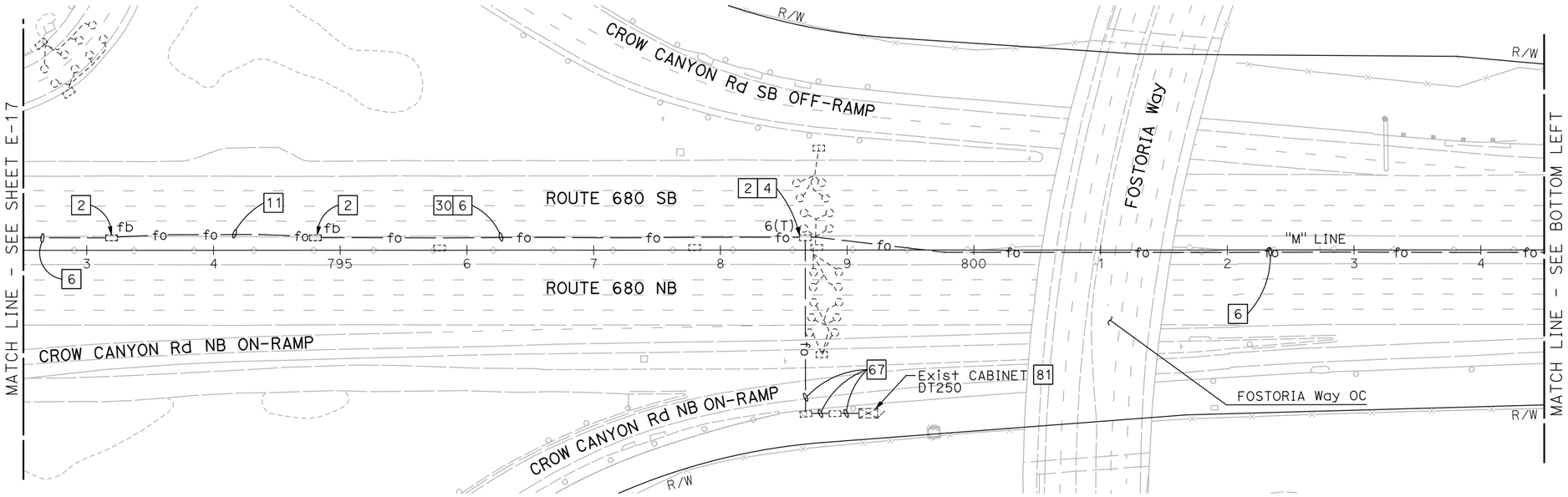

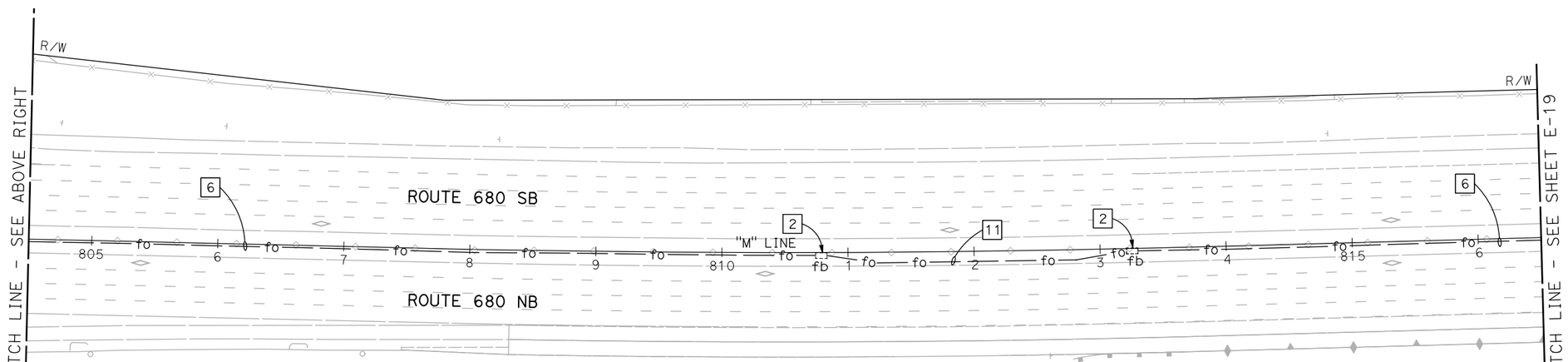

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-18

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	86	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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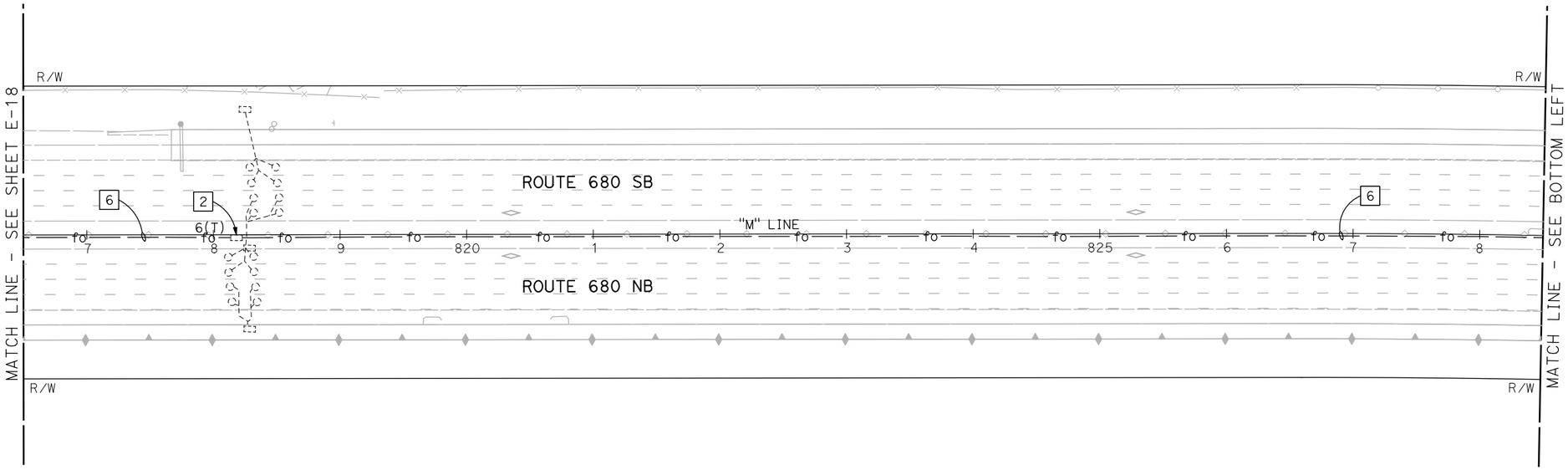

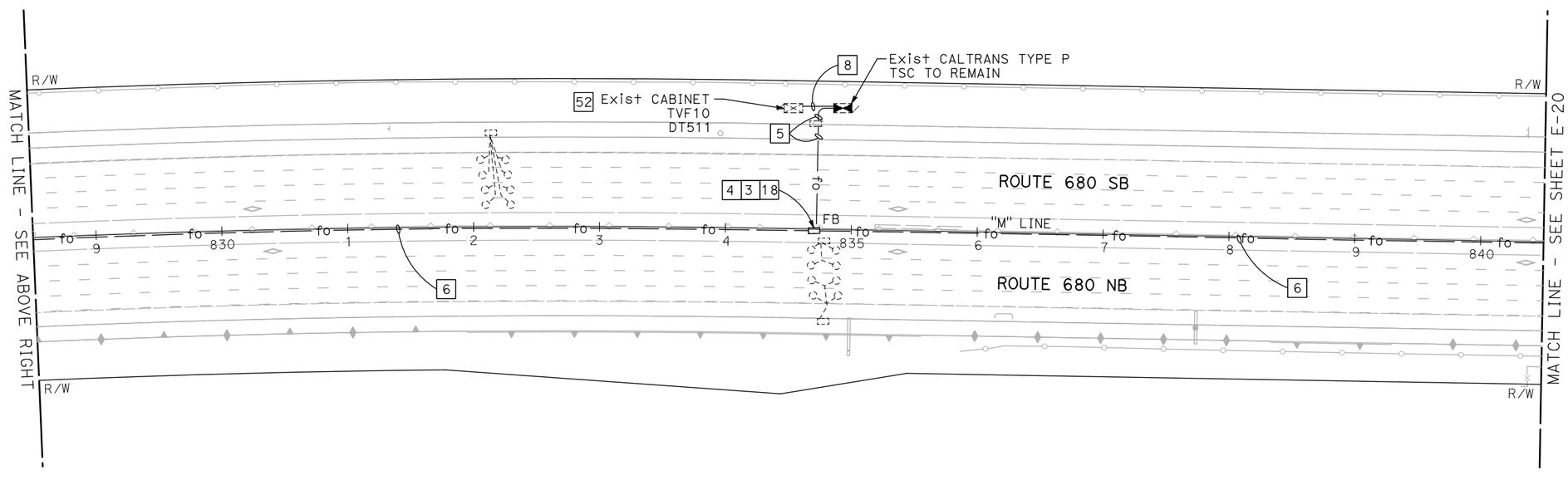

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-19

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	87	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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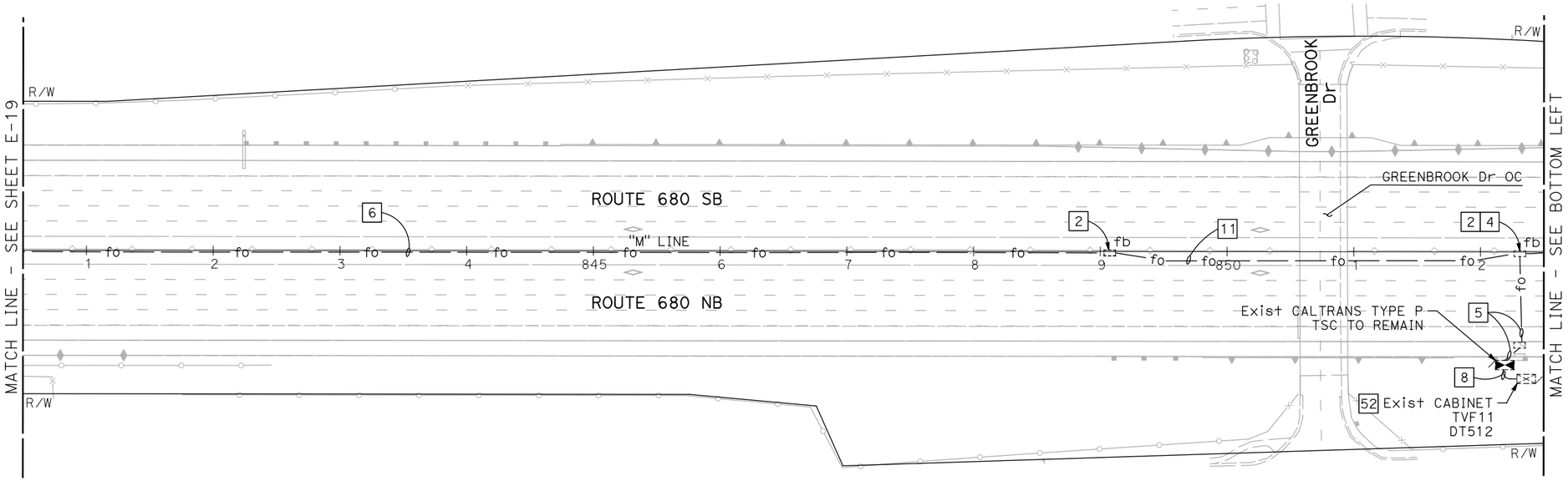

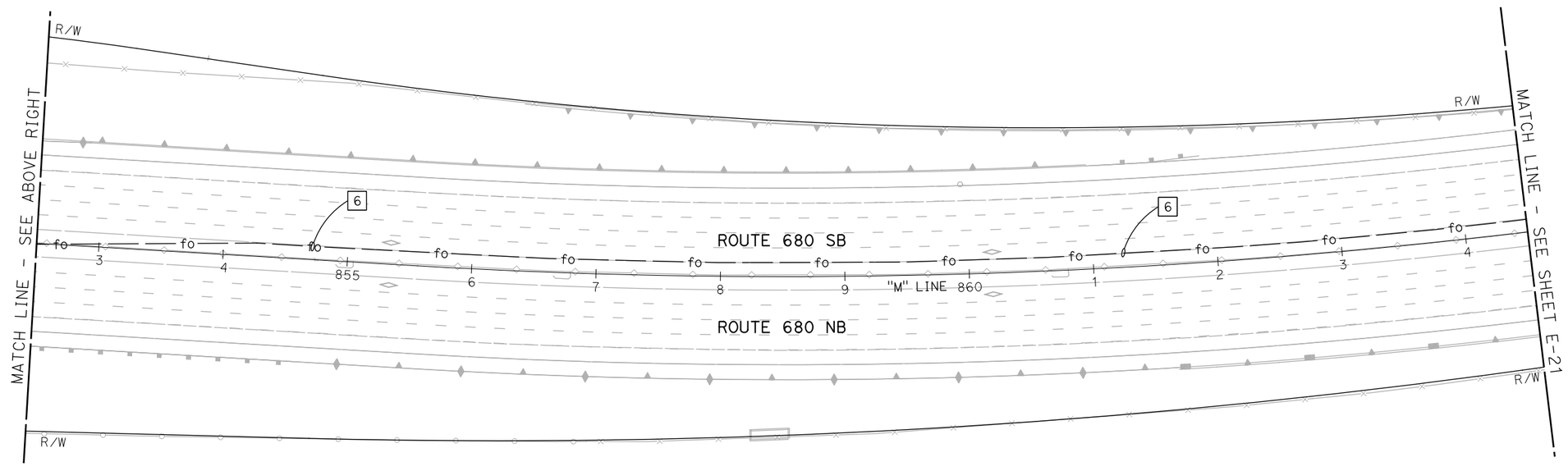

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-20

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	88	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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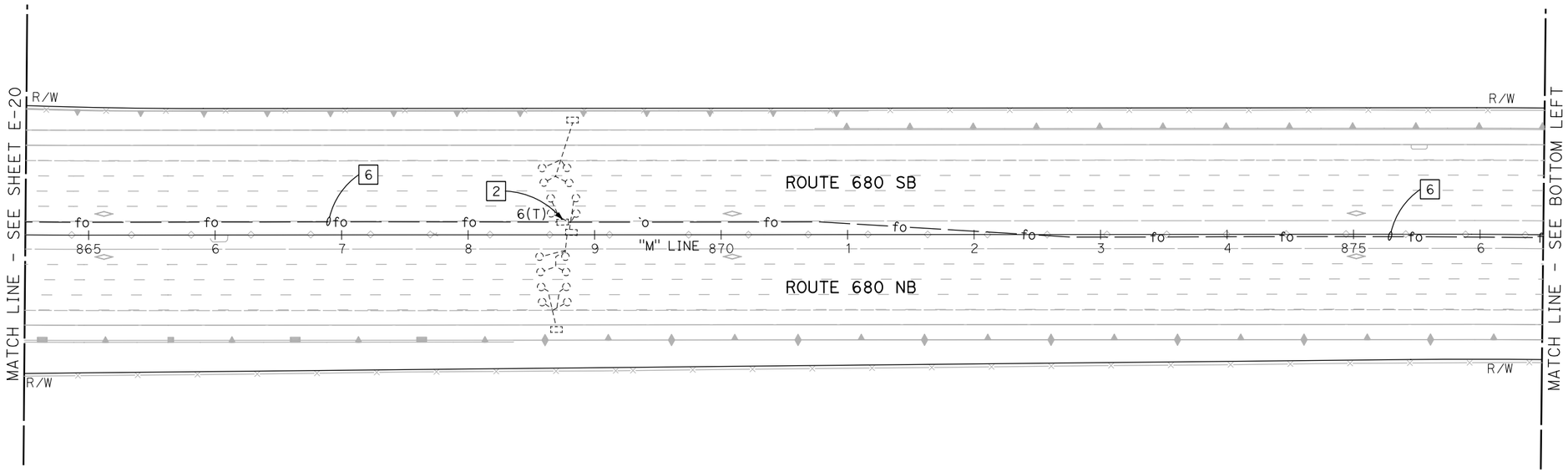
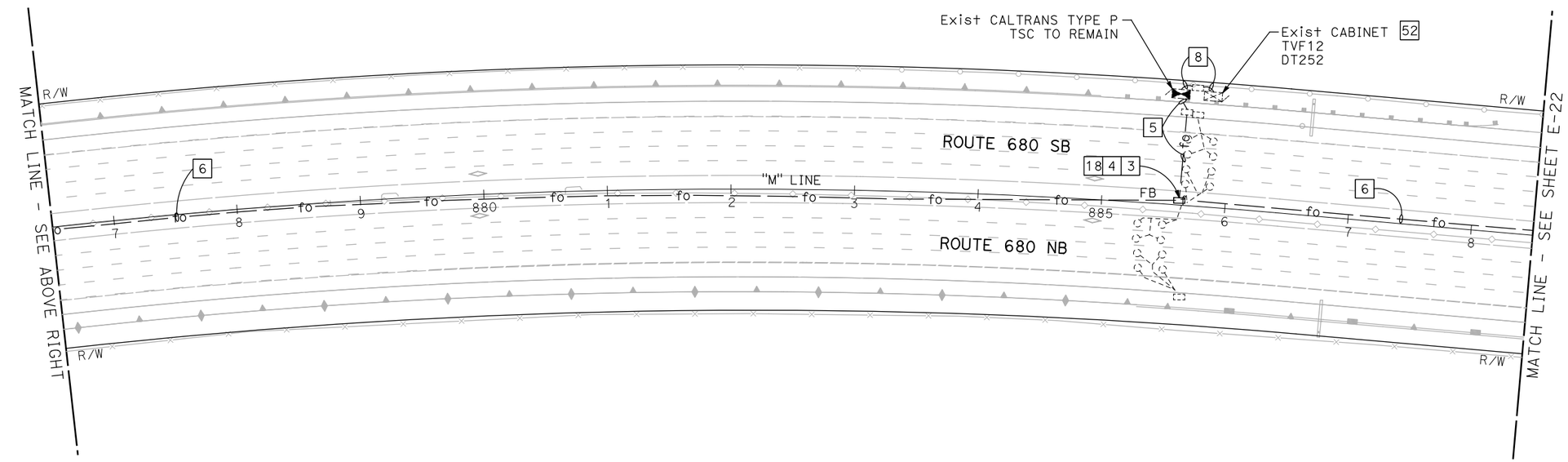
OAKLAND, CA 94607





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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-21

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	89	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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SAN FRANCISCO, CA 94104

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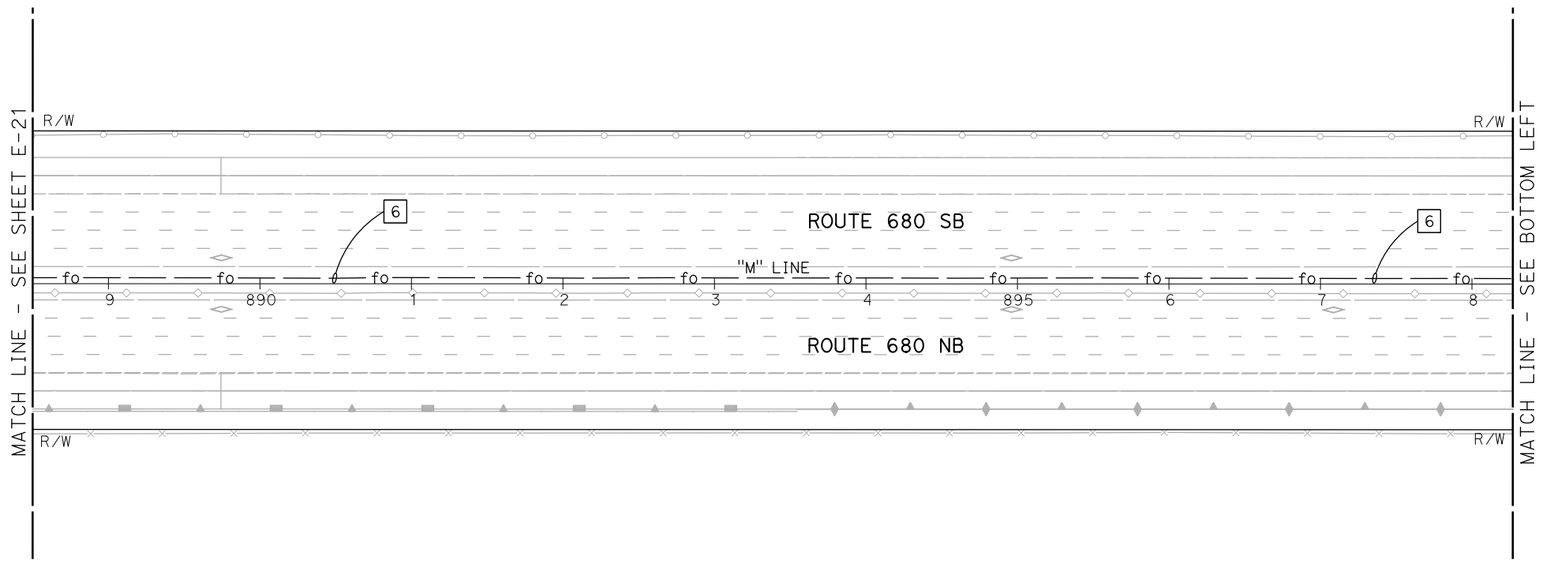
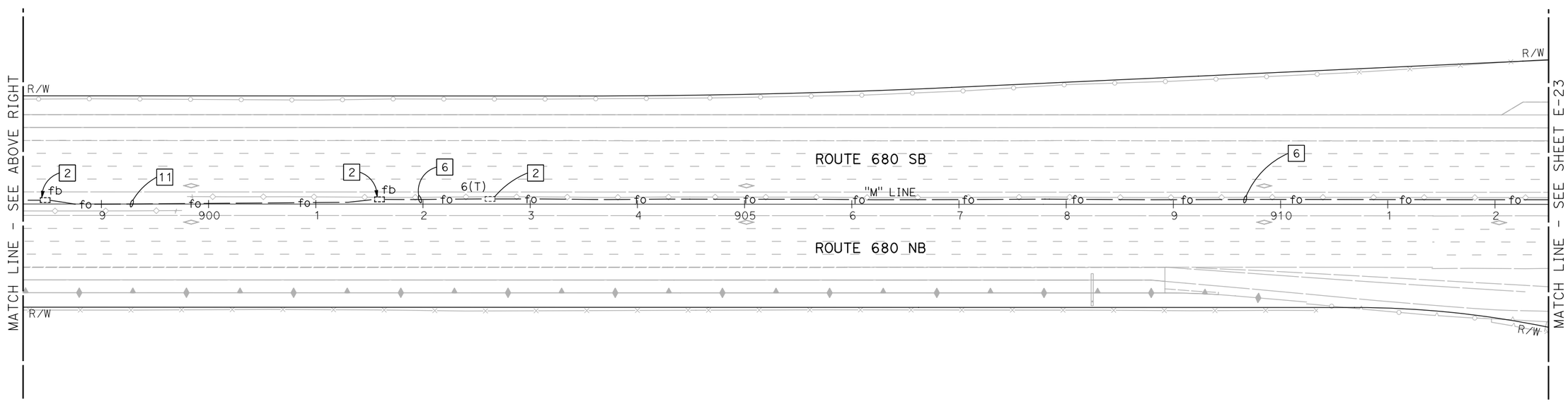
OAKLAND, CA 94607





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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-22

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	90	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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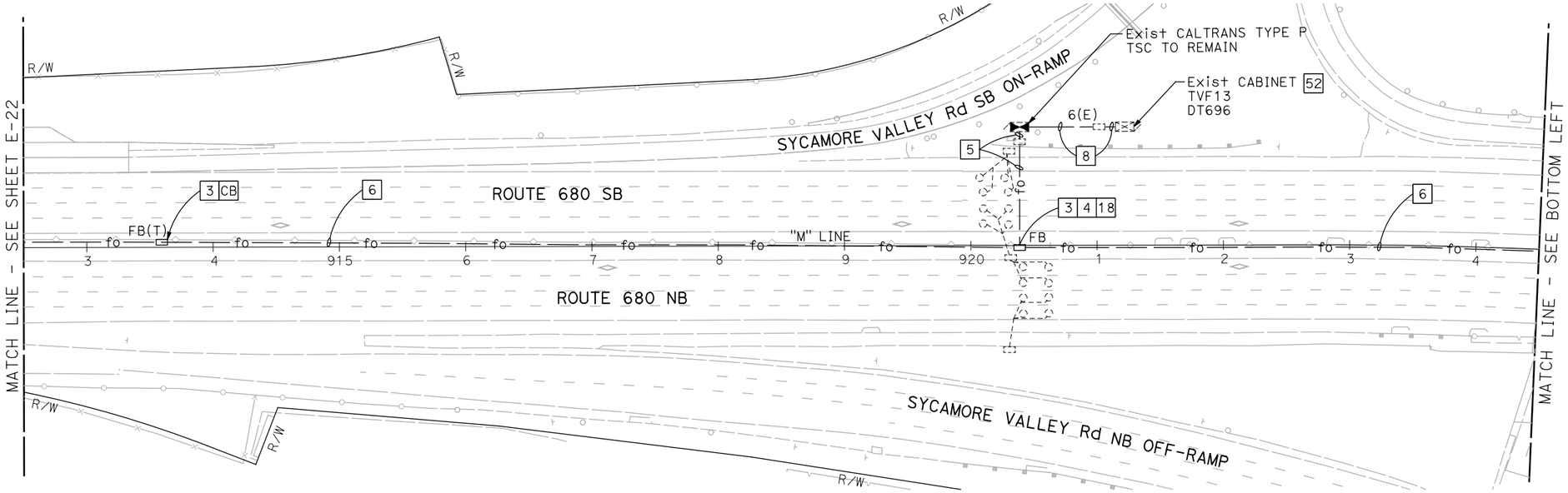
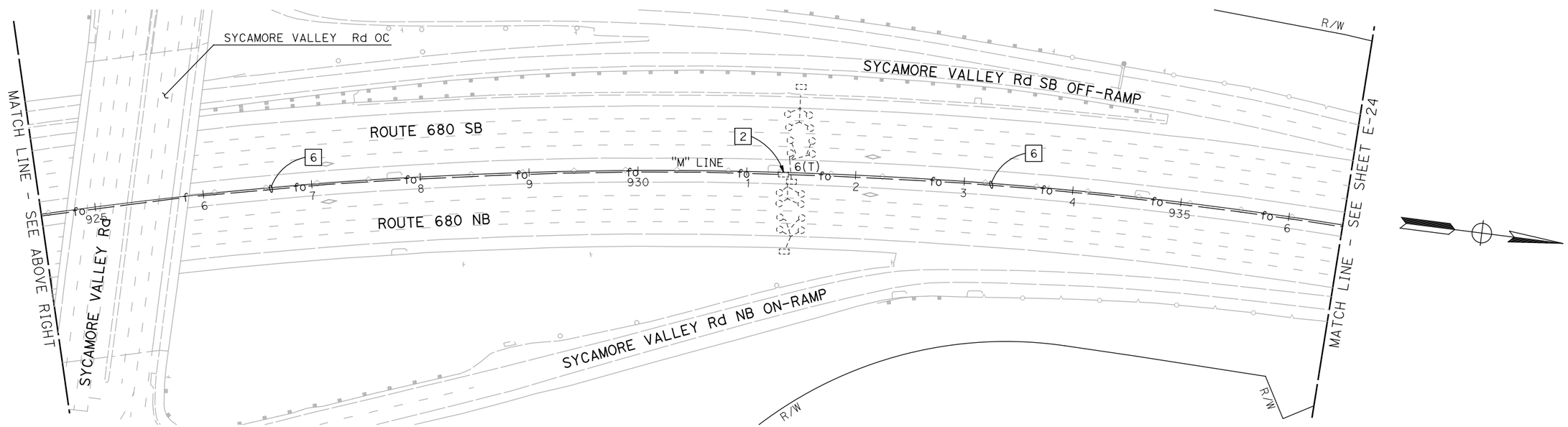
OAKLAND, CA 94607





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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	91	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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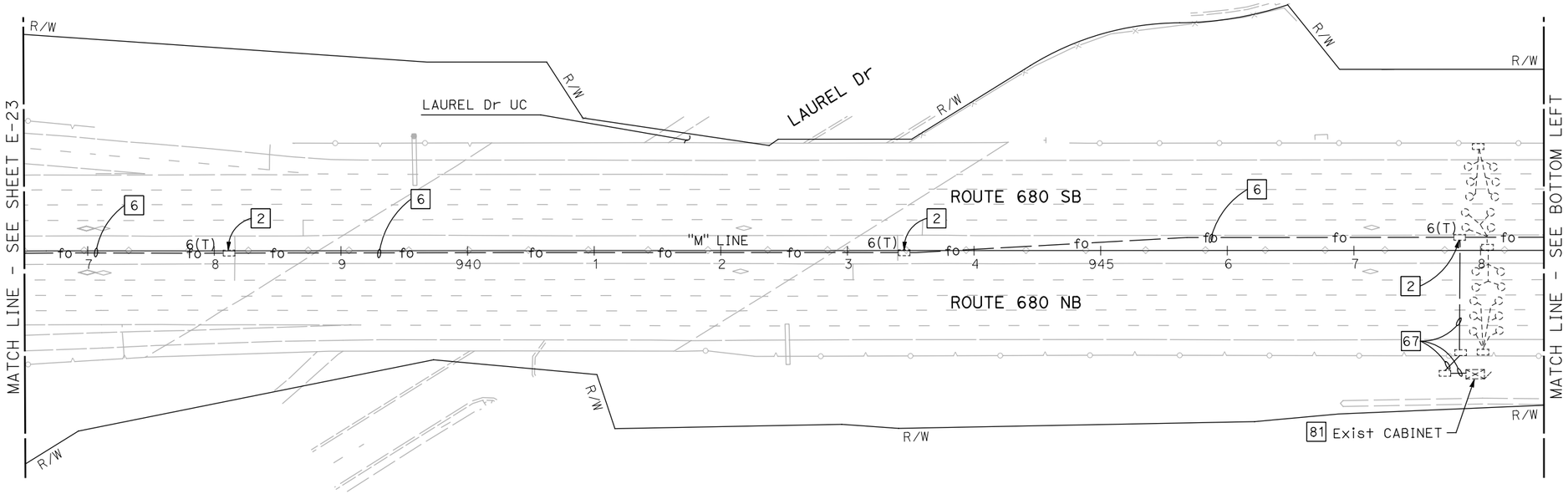

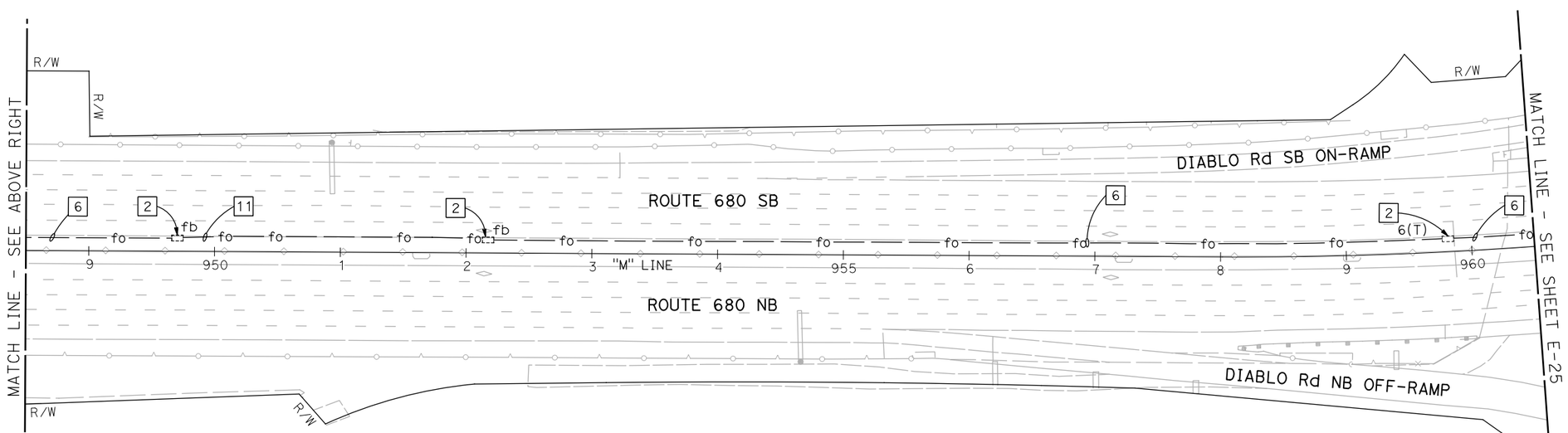

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-24

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	92	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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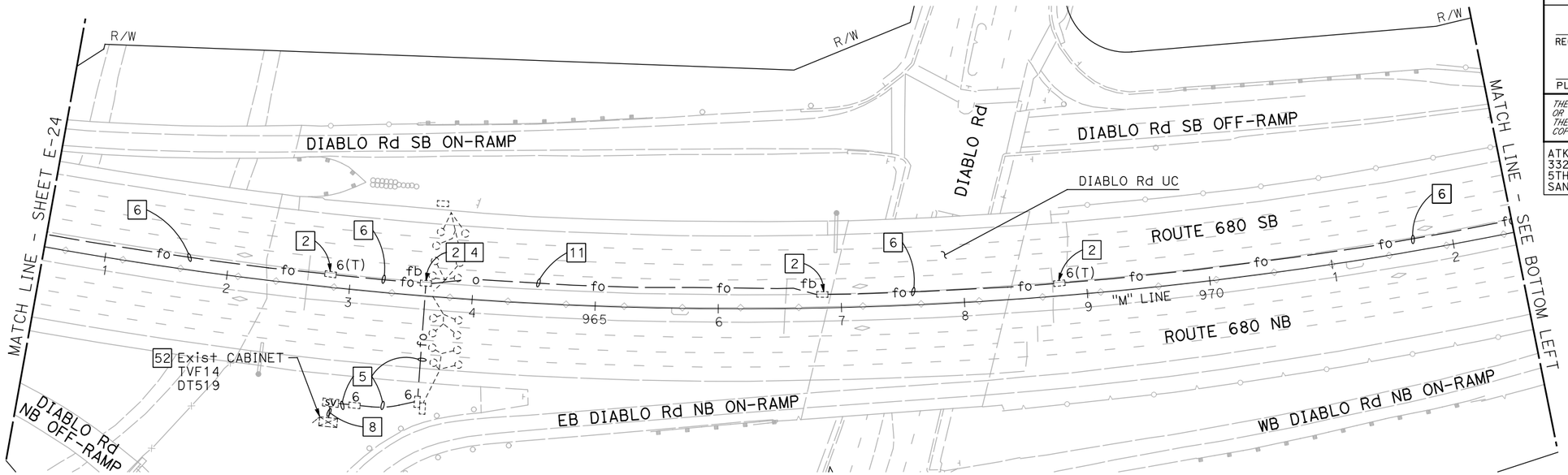

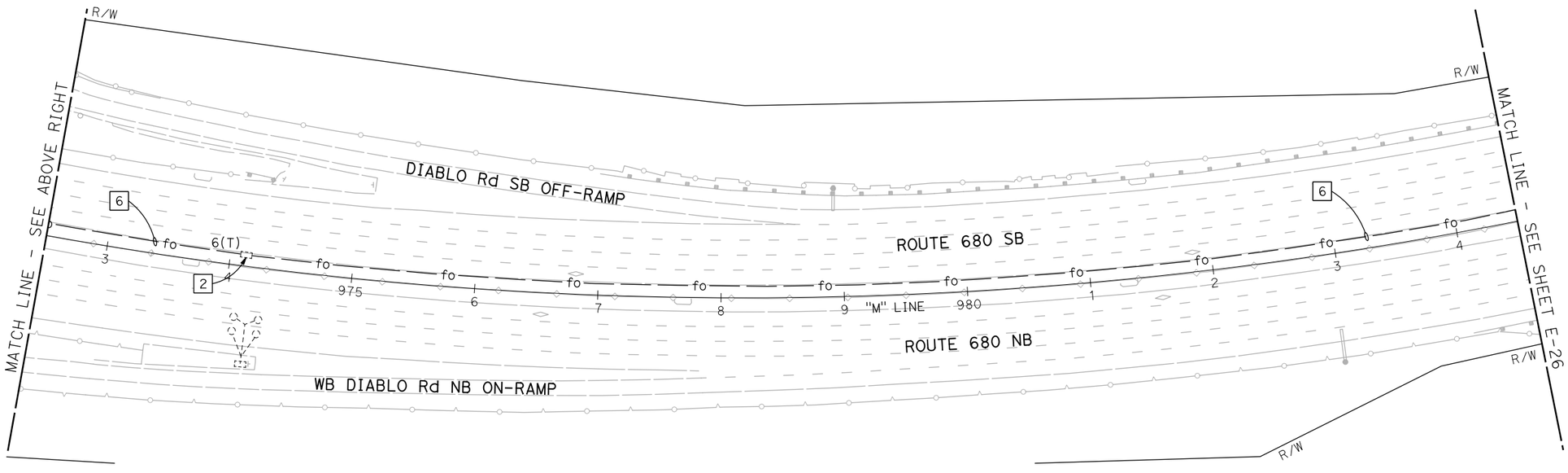

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	93	175

REGISTERED ELECTRICAL ENGINEER DATE

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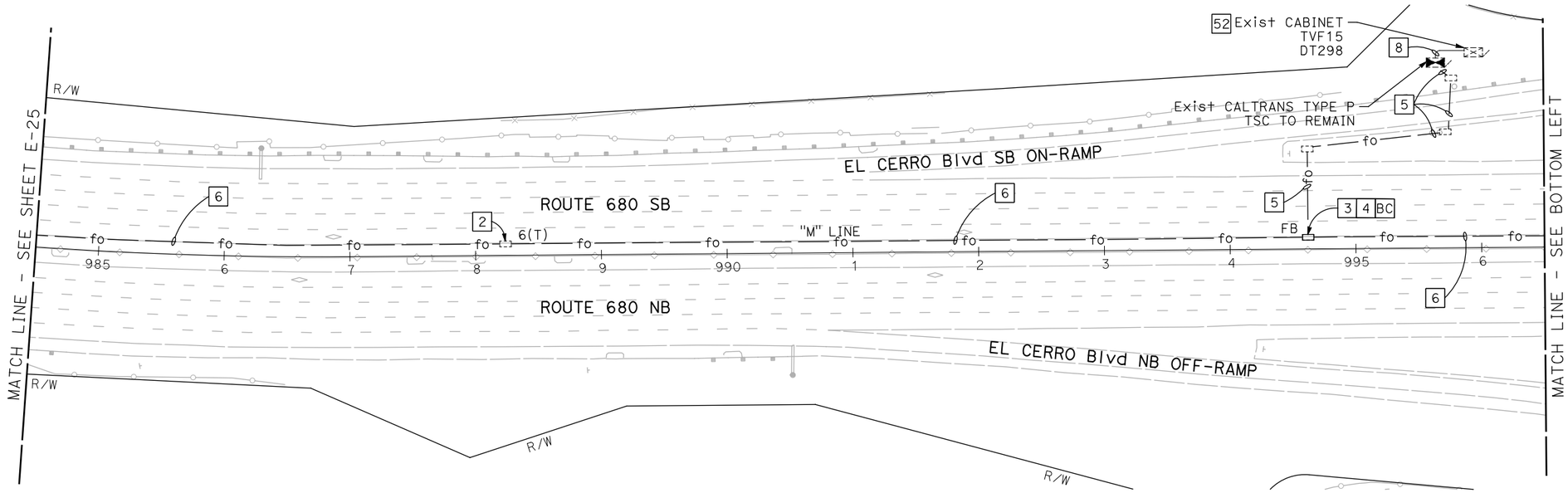

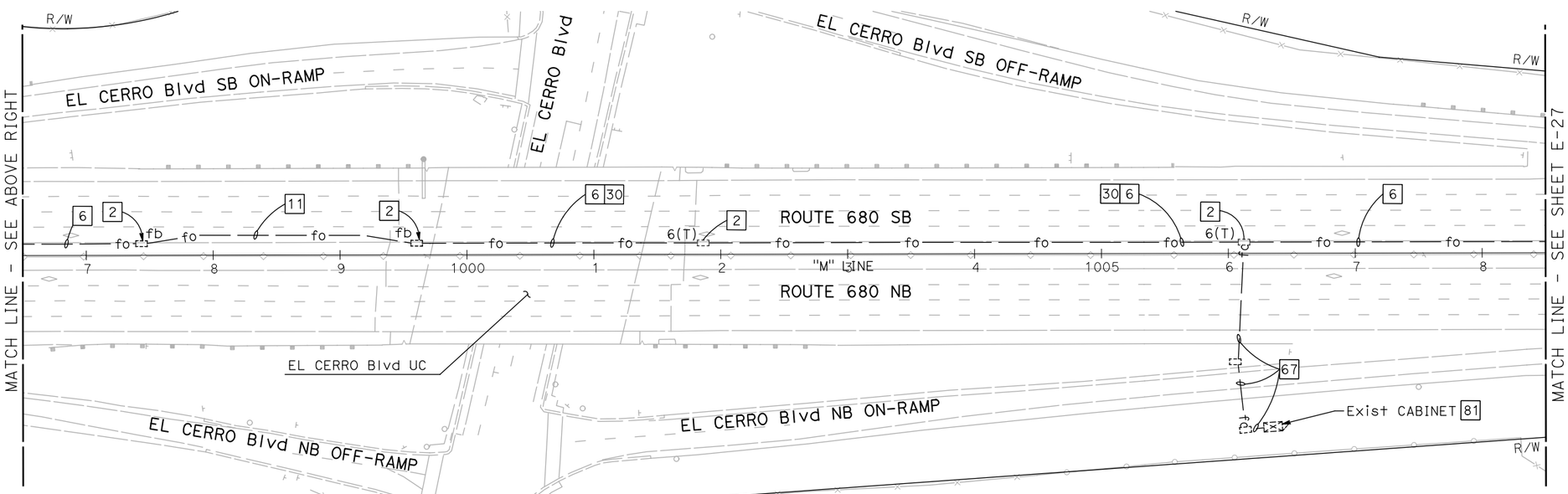

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	94	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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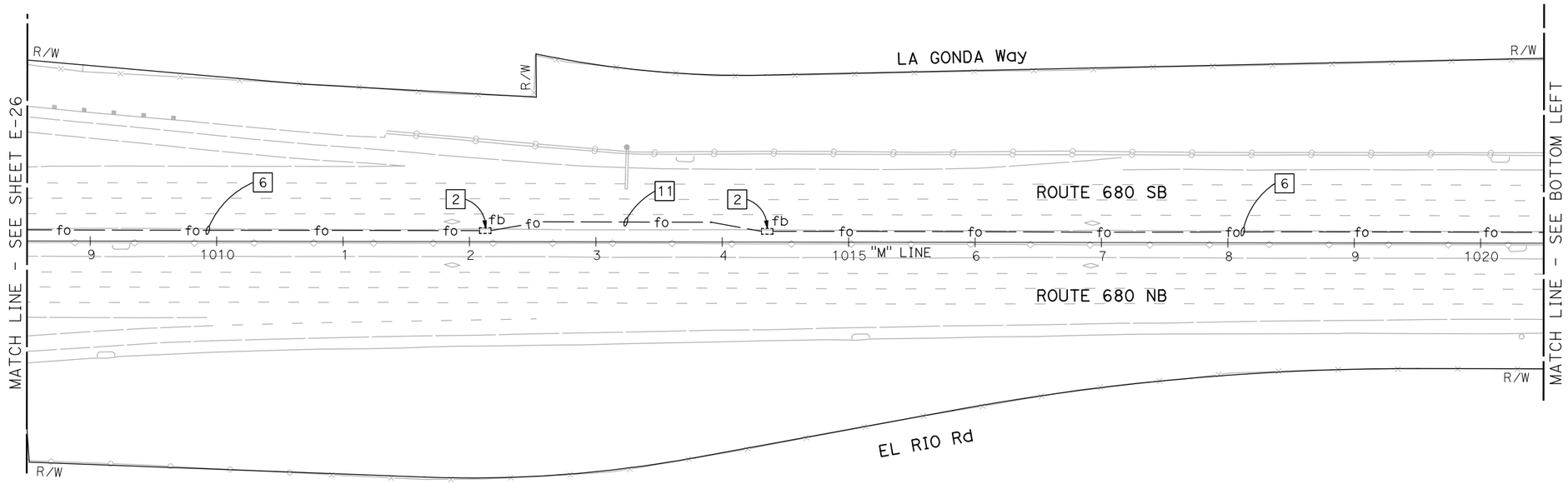

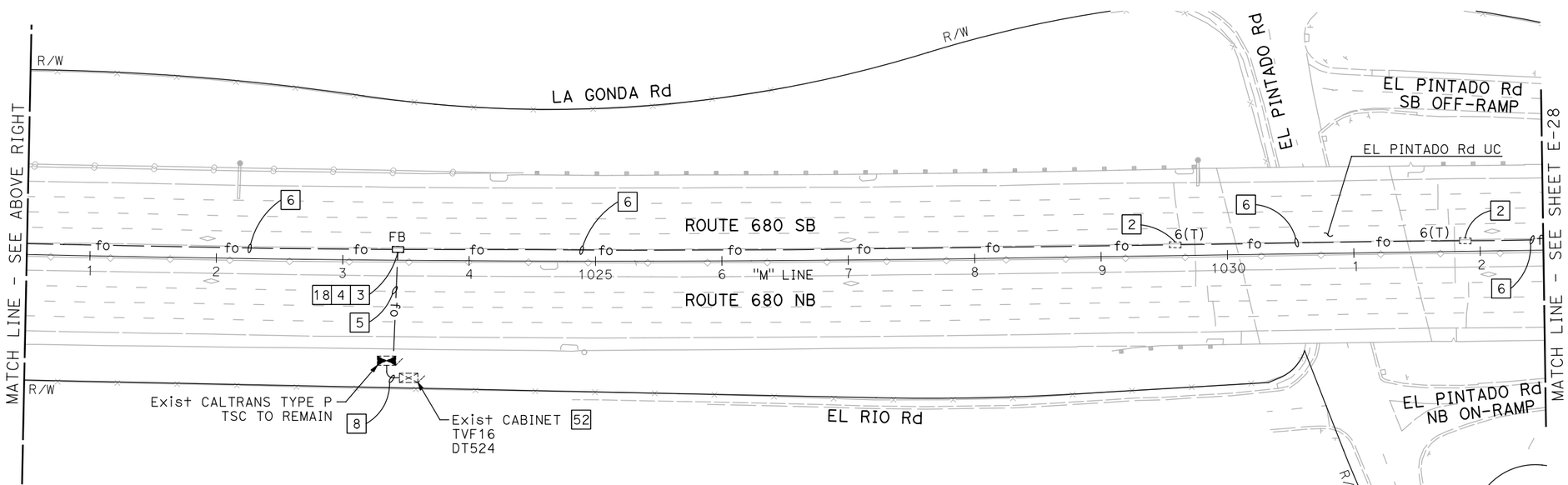

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(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	95	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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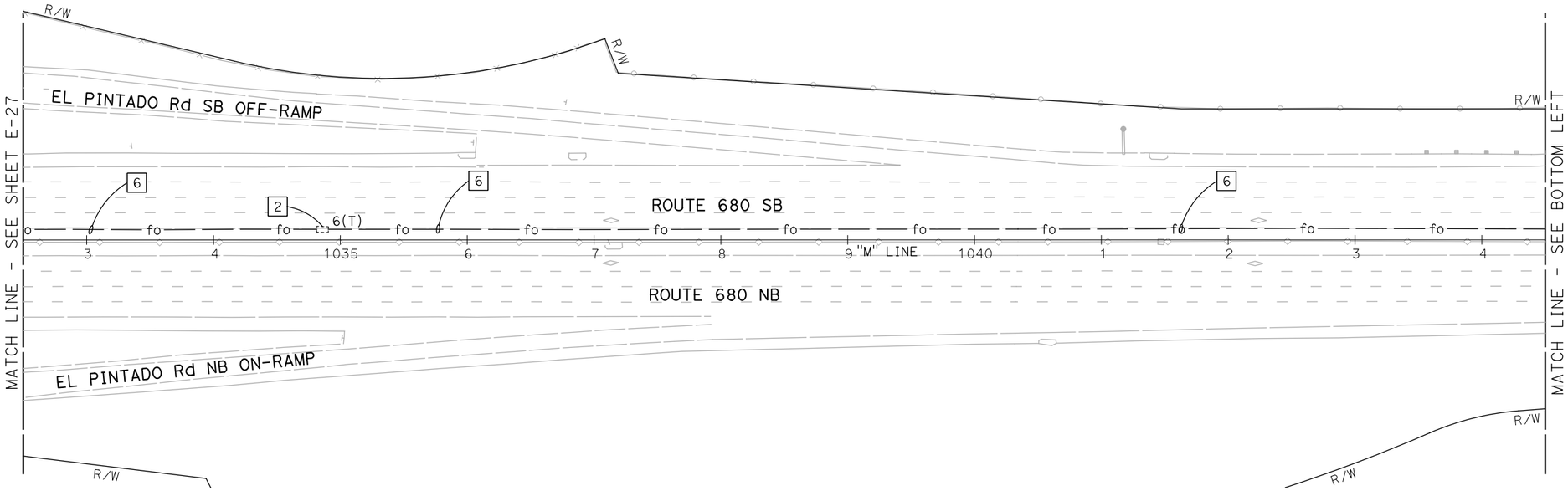

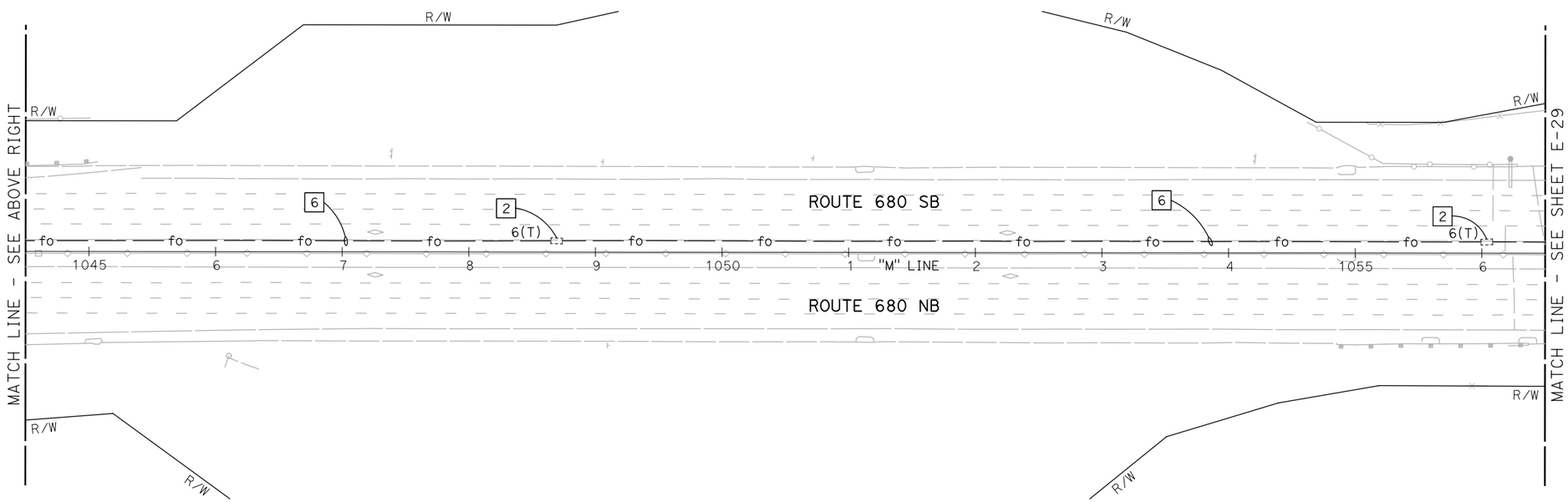

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-28

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	96	175

REGISTERED ELECTRICAL ENGINEER DATE

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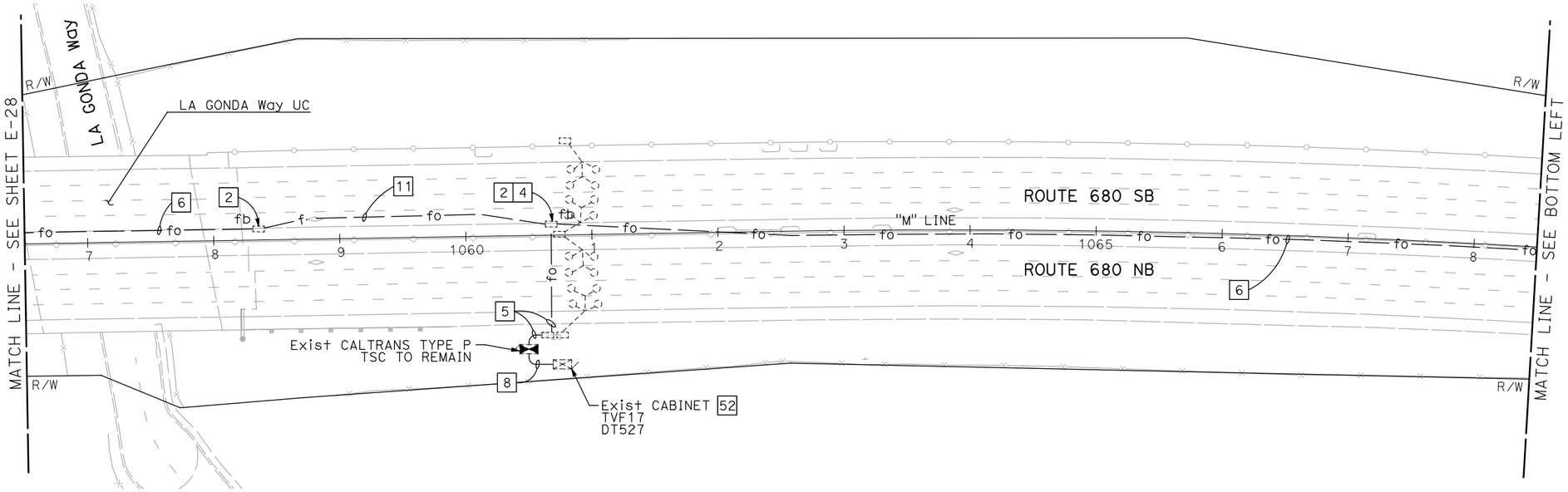

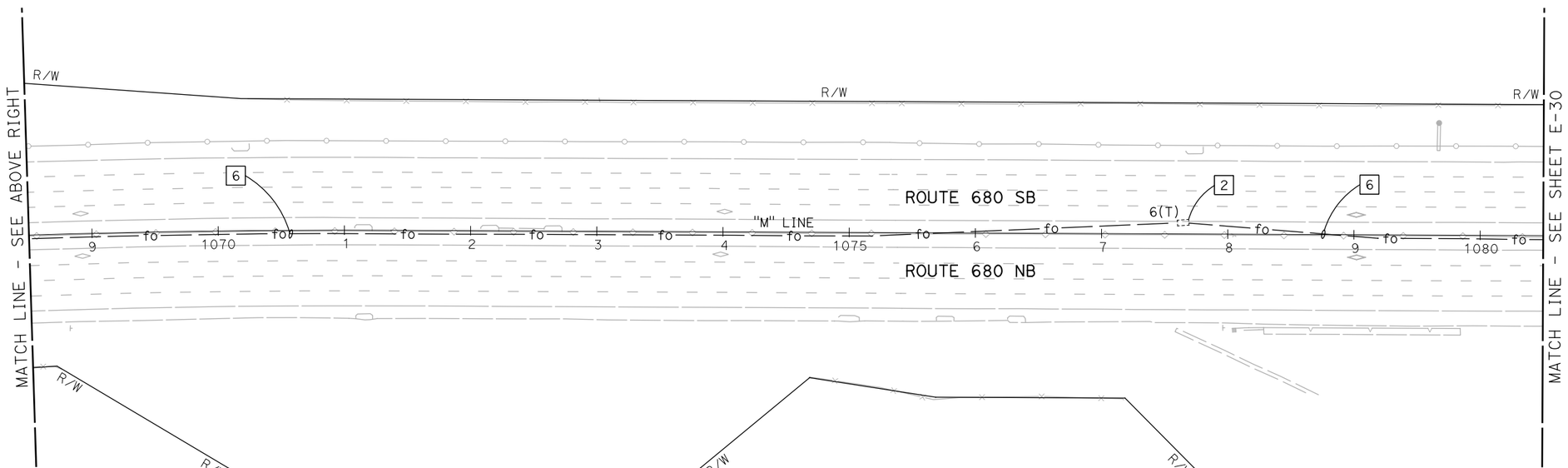

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-29

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	97	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp. 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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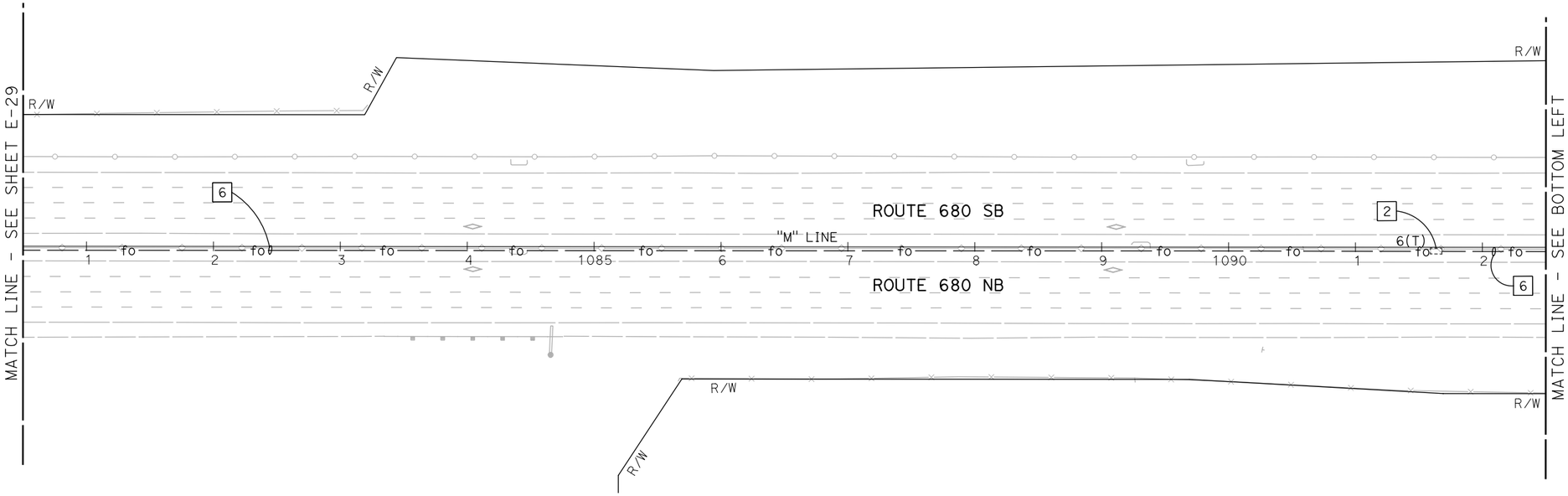

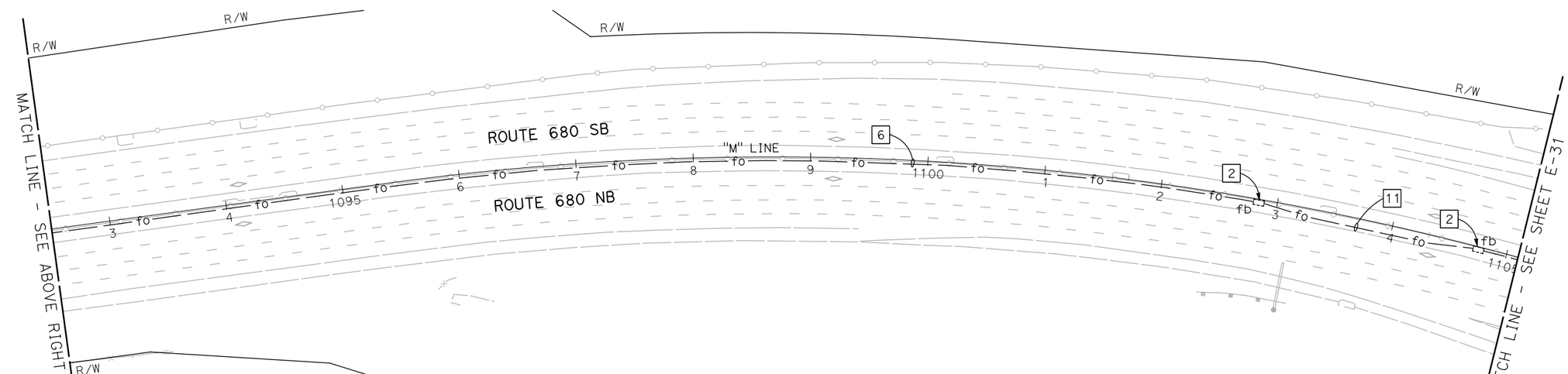

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-30

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	98	175

REGISTERED ELECTRICAL ENGINEER DATE

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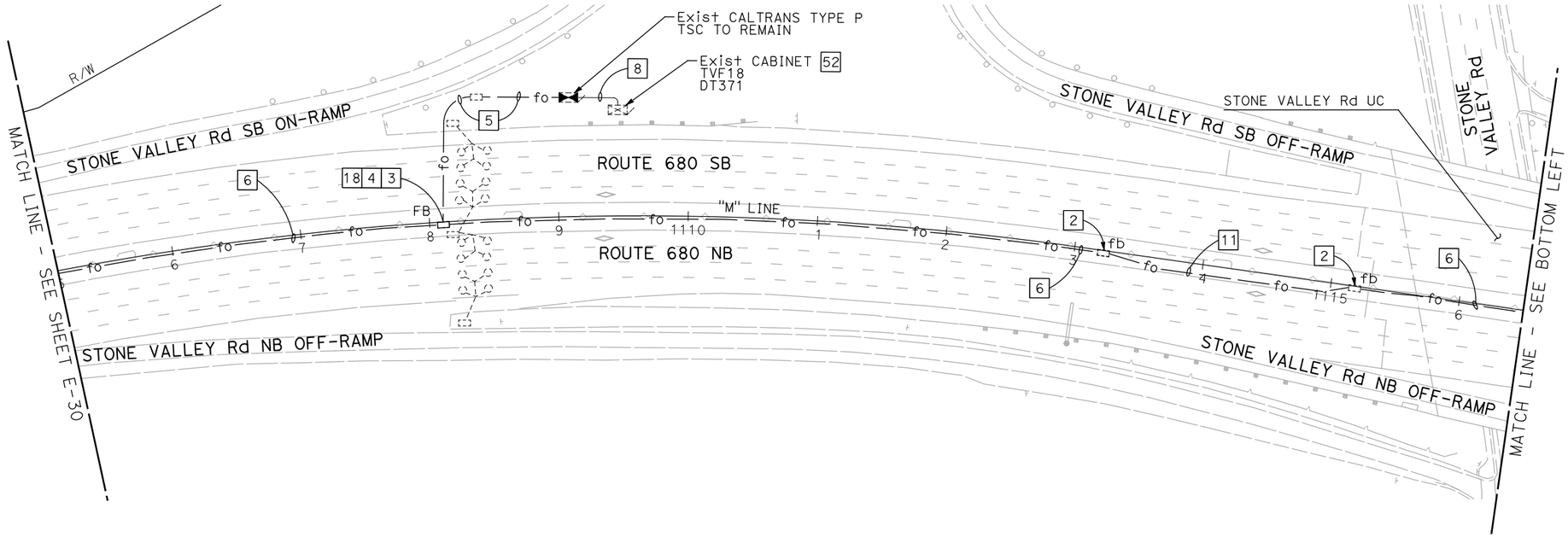

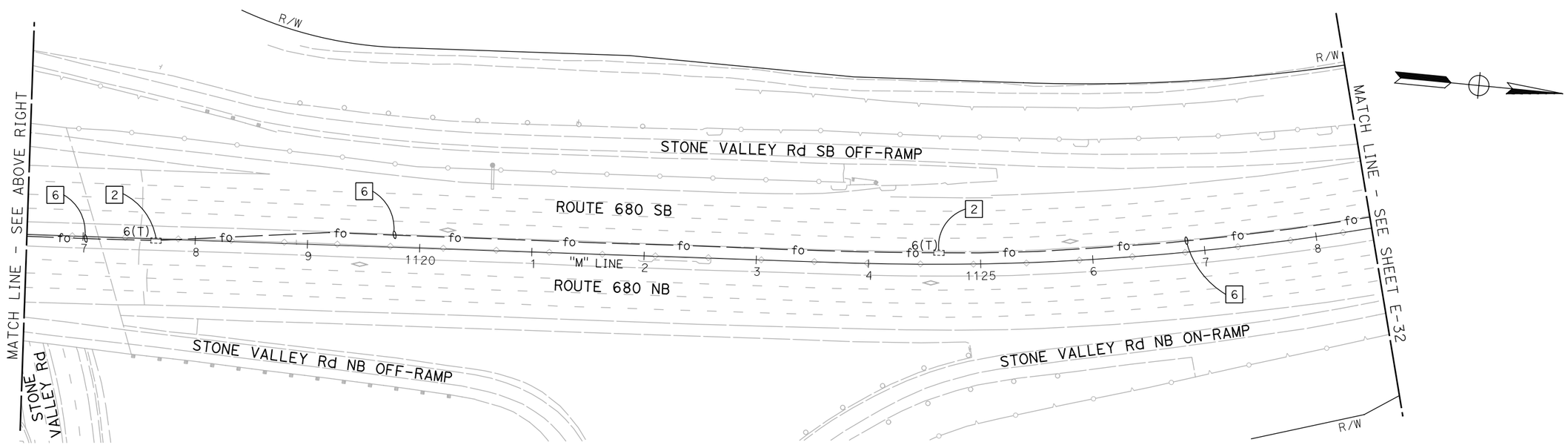

BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	99	175

REGISTERED ELECTRICAL ENGINEER DATE

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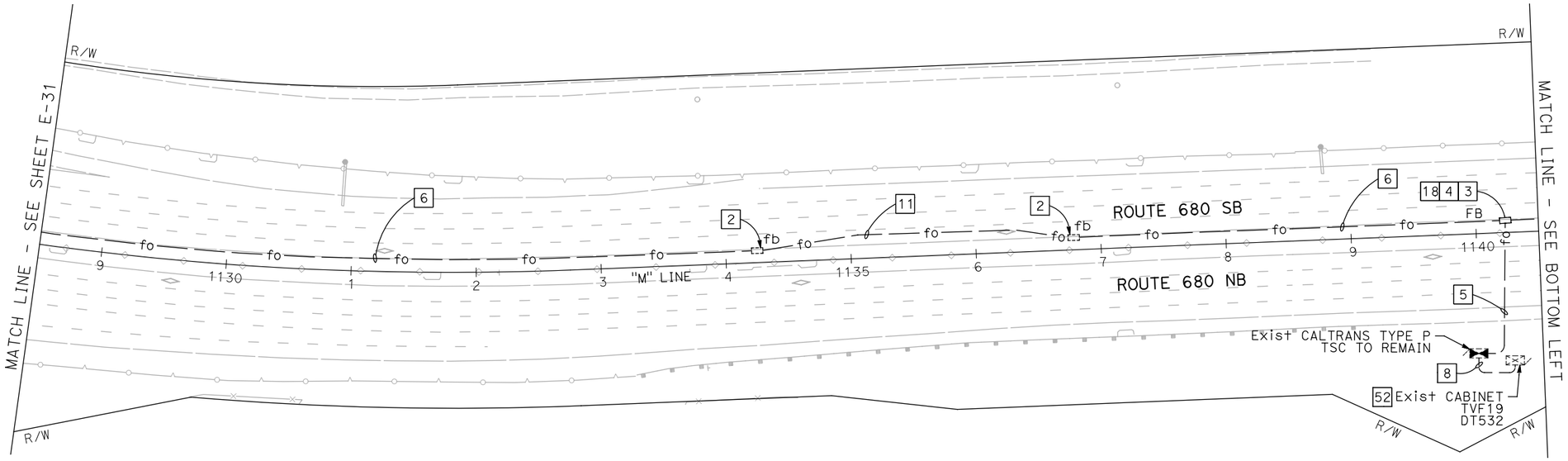

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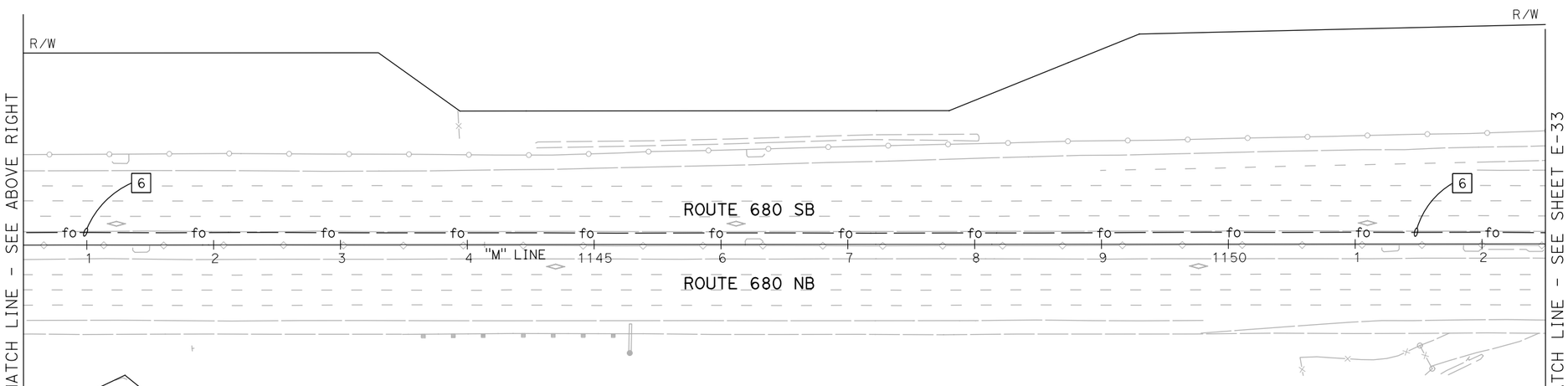

NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-32

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/22/2015 TIME PLOTTED => 6:15:28 PM

BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 DGN FILE => 0414000490ua032.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	100	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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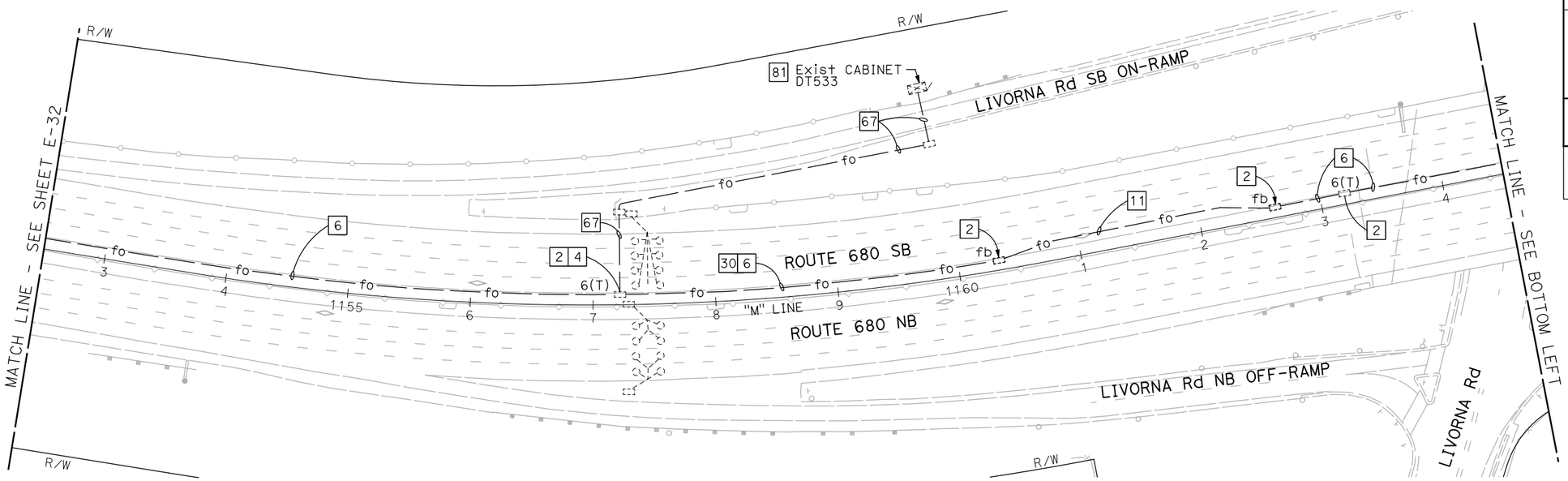
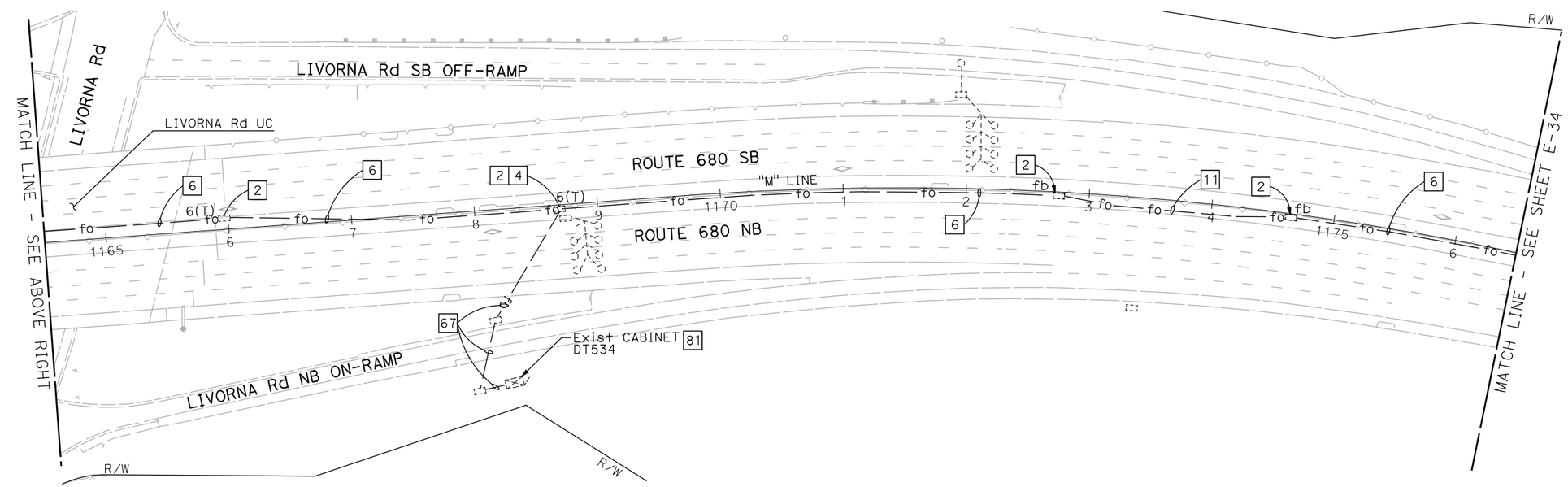
OAKLAND, CA 94607





NOTE:

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-33

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 DGN FILE => 0414000490ua033.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	101	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

METROPOLITAN
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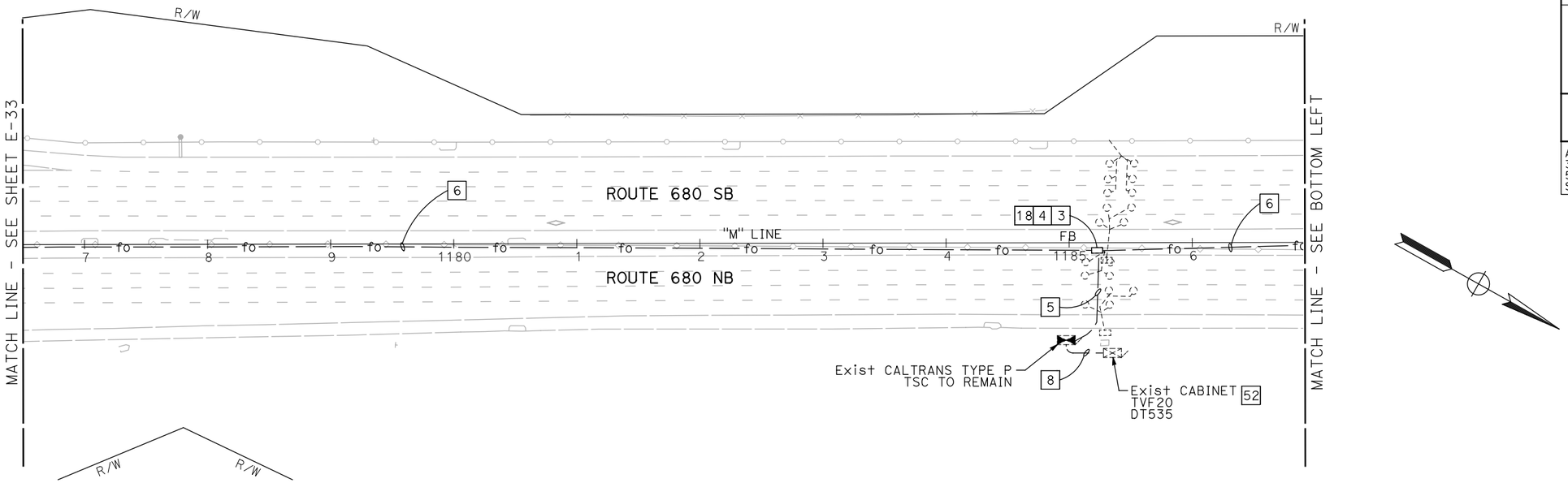
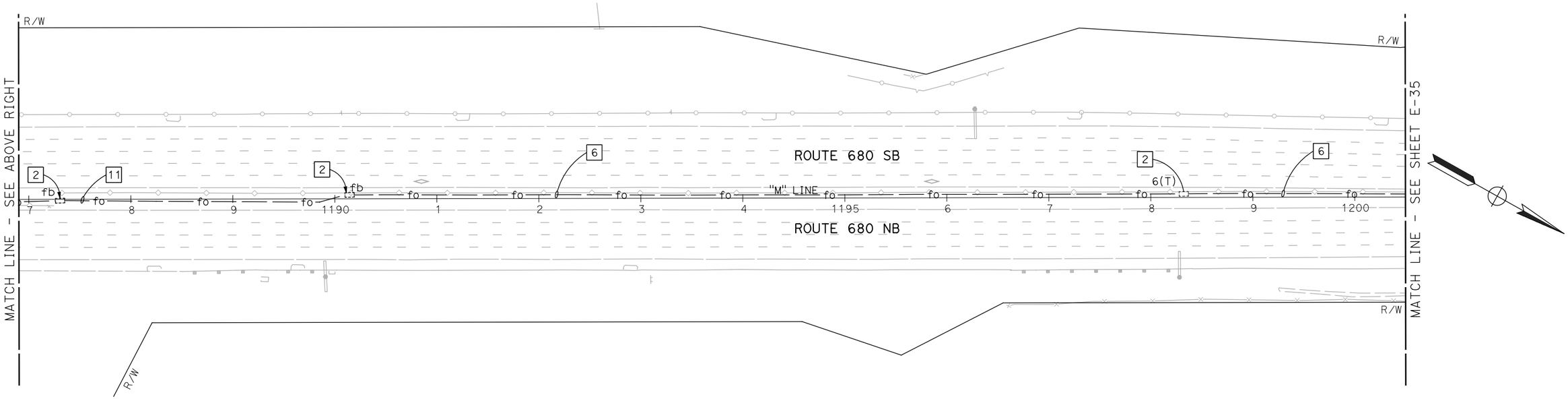
101 EIGHTH STREET
OAKLAND, CA 94607





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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-34

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	102	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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SAN FRANCISCO, CA 94104

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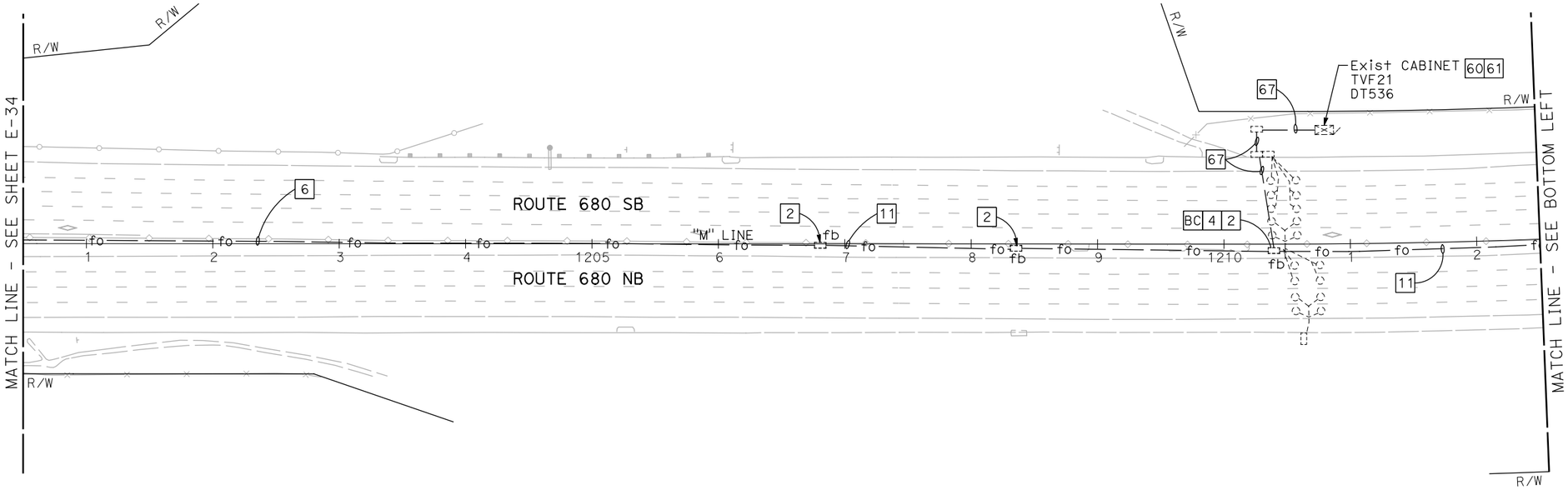
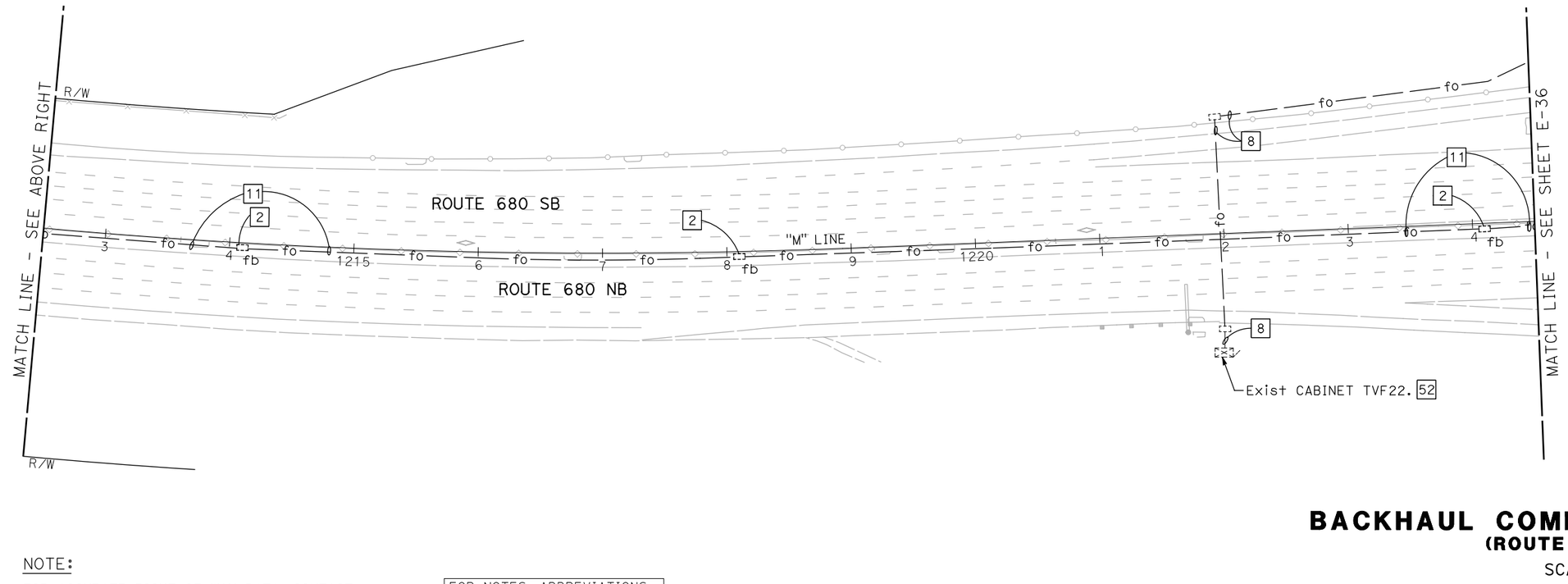
101 EIGHTH STREET
OAKLAND, CA 94607





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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-35

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	103	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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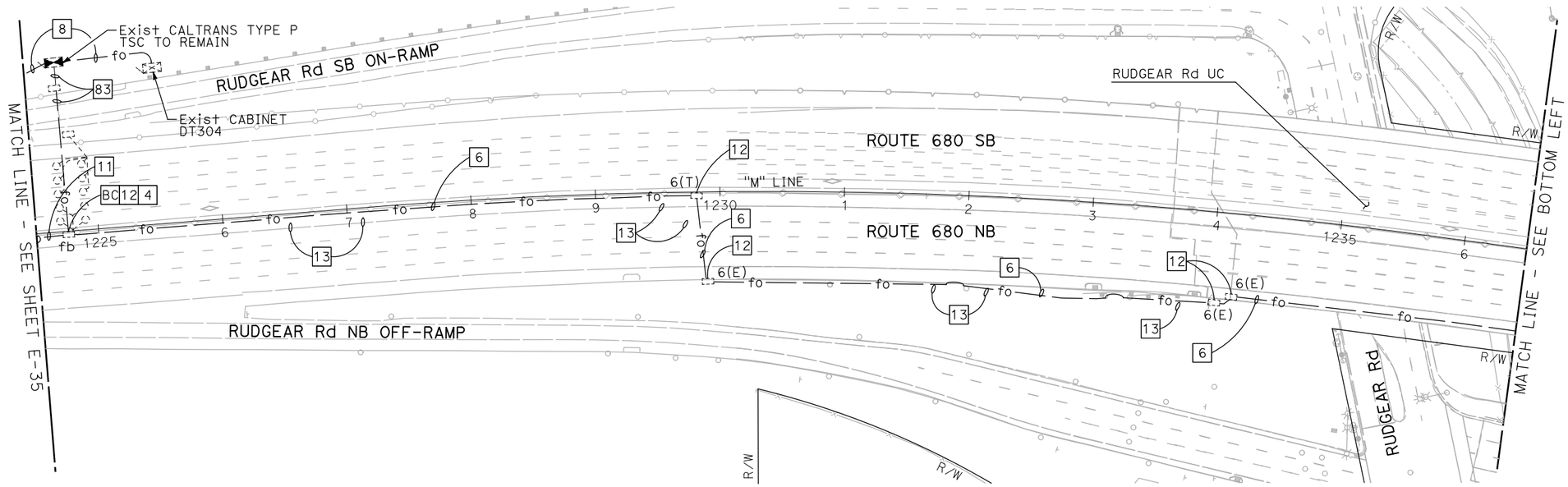
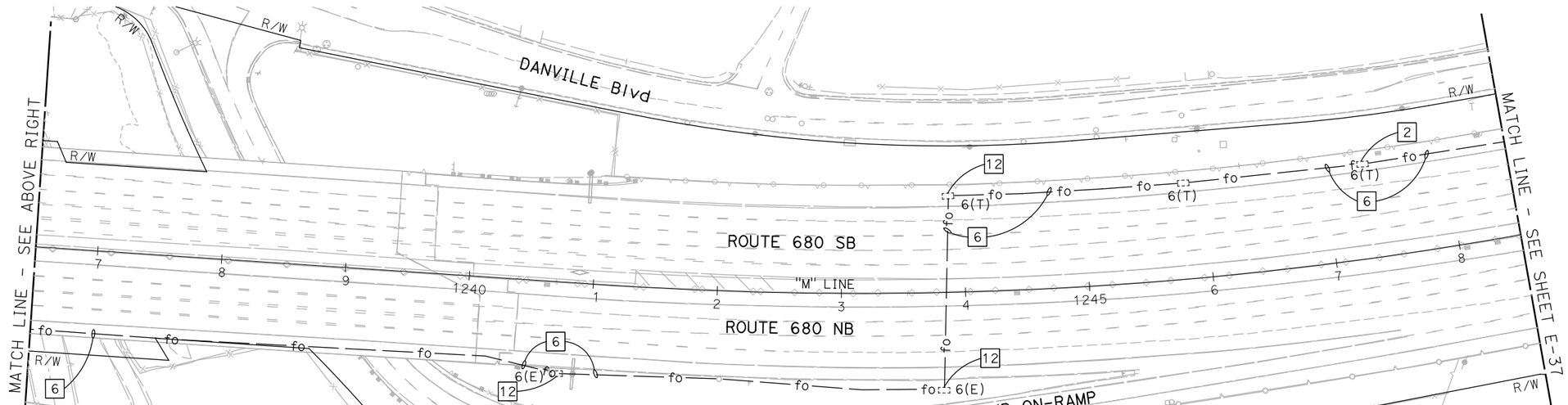
OAKLAND, CA 94607





NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-36

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	104	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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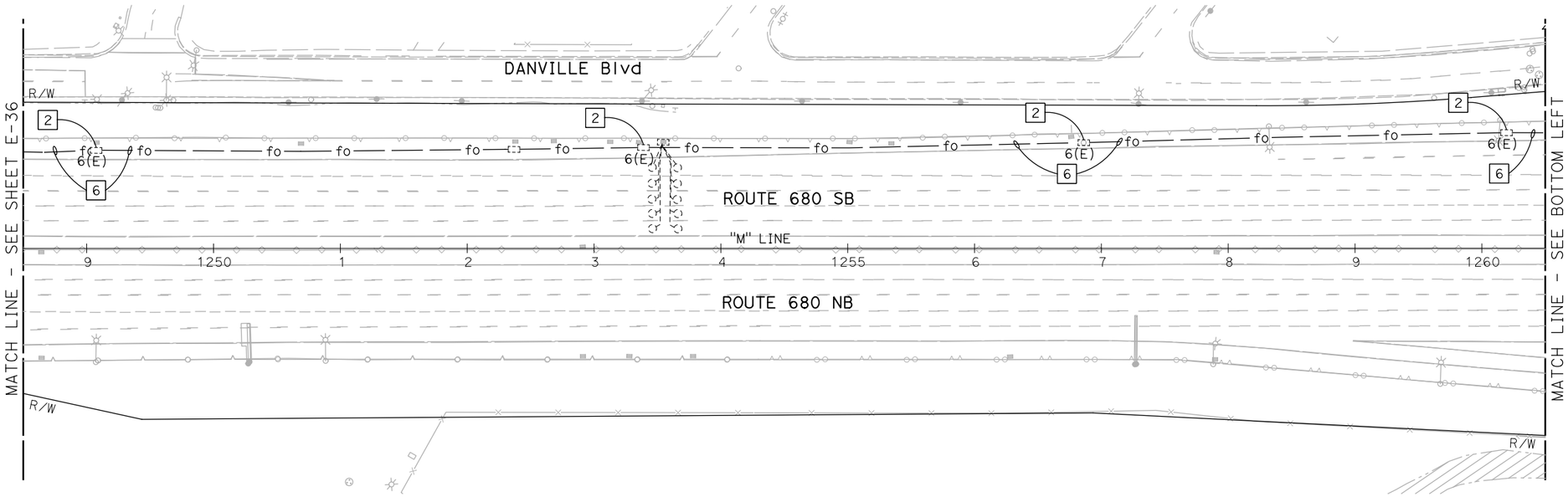

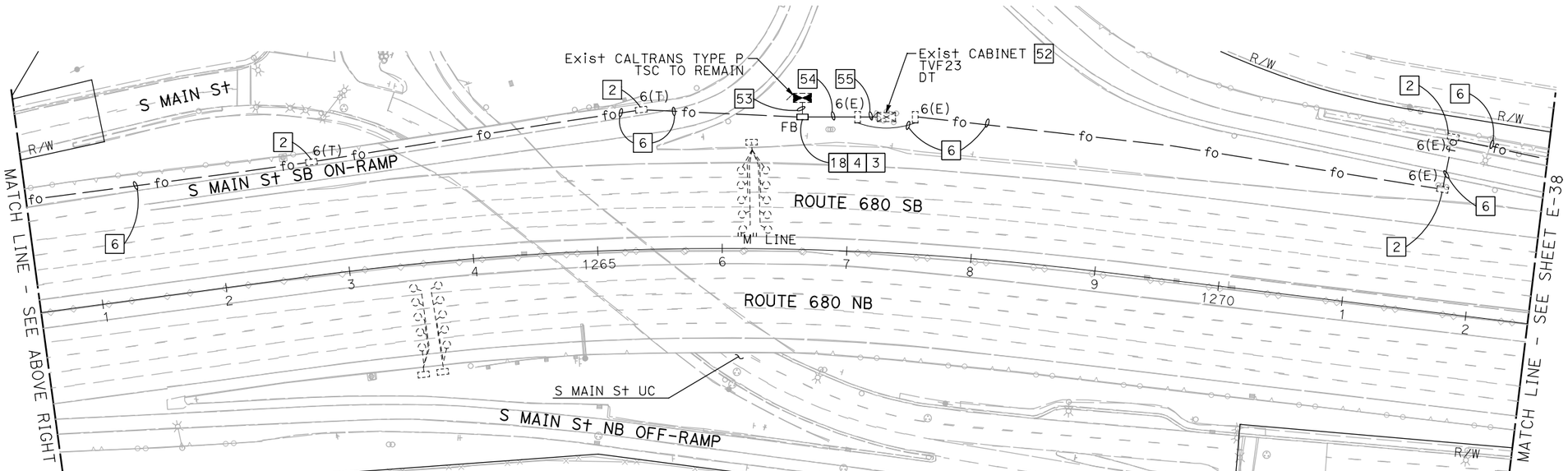

BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 DGN FILE => 0414000490ua037.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	105	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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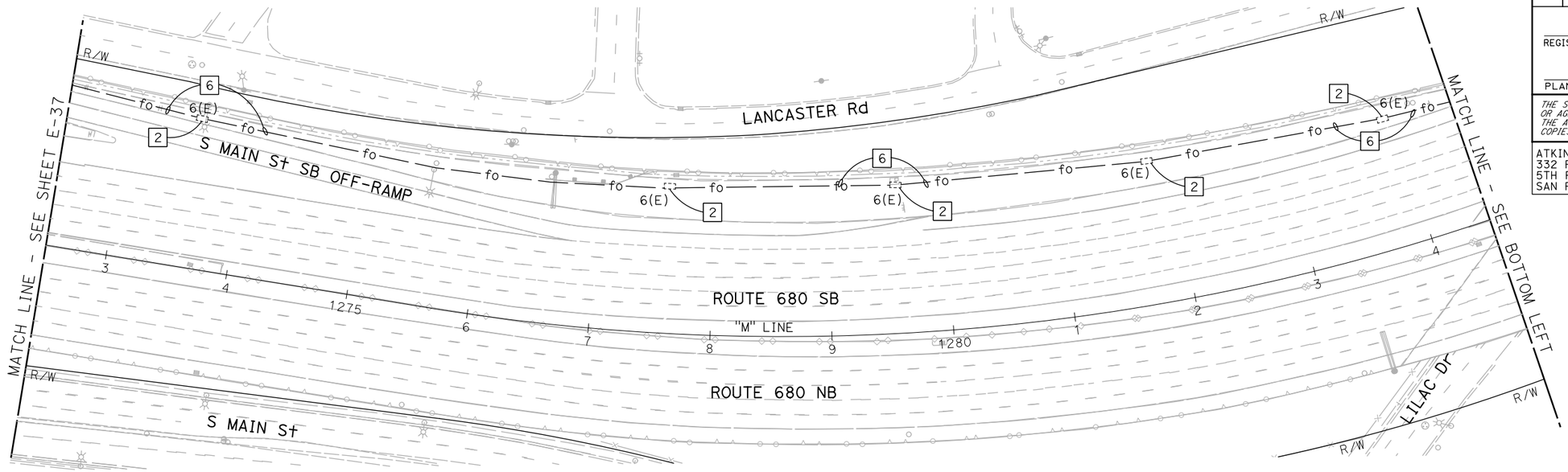
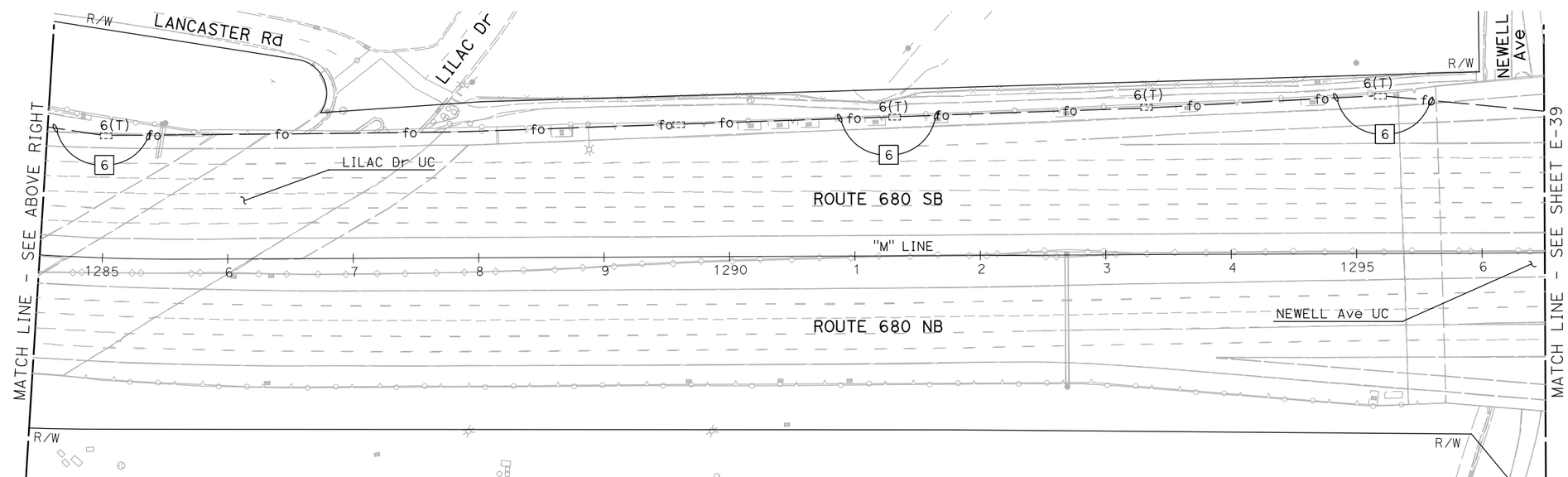
101 EIGHTH STREET
OAKLAND, CA 94607





NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-38

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	106	175

REGISTERED ELECTRICAL ENGINEER DATE

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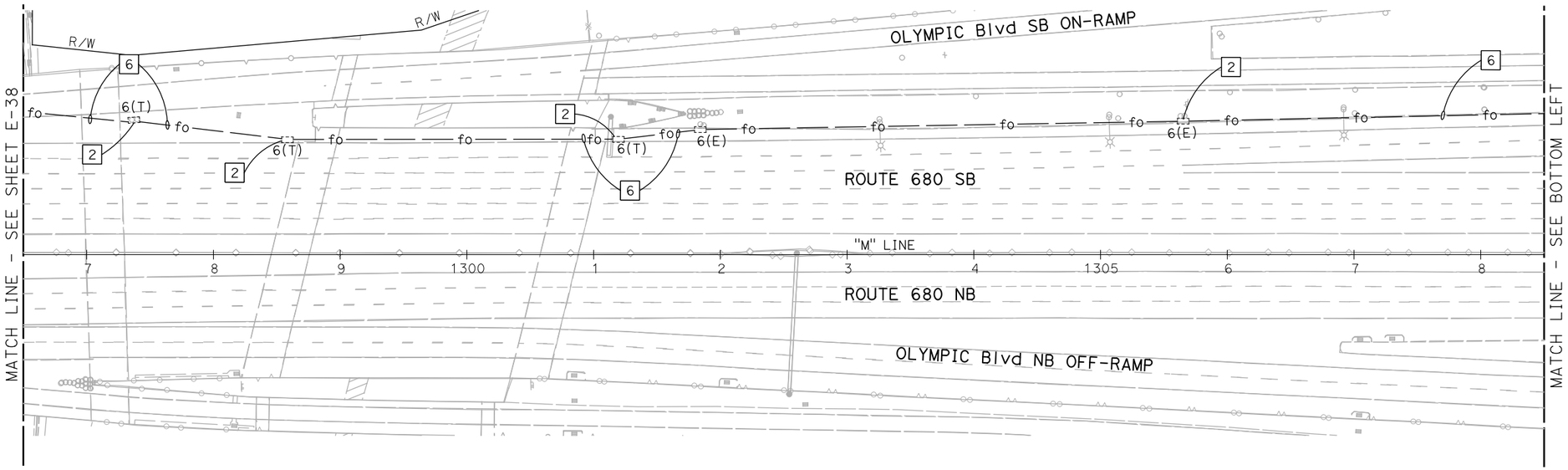

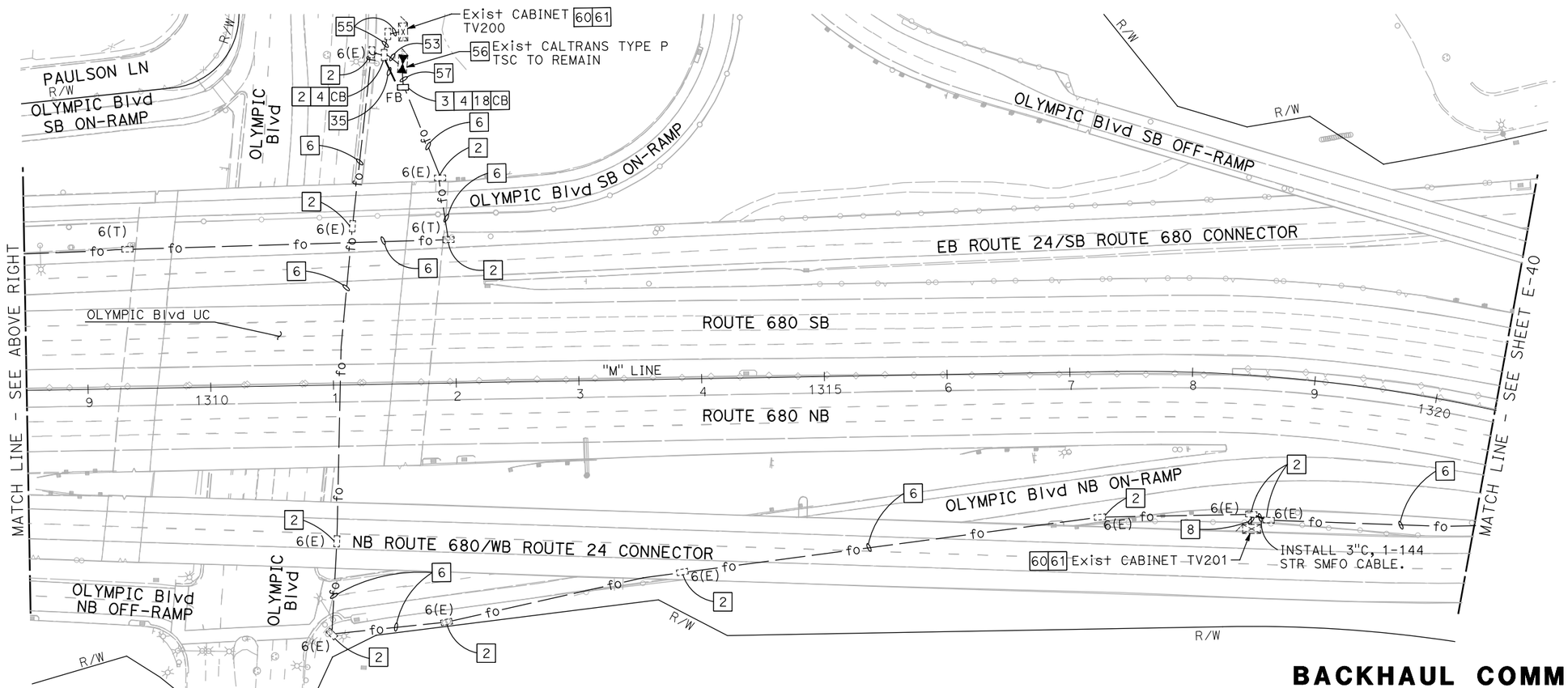

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-39

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	107	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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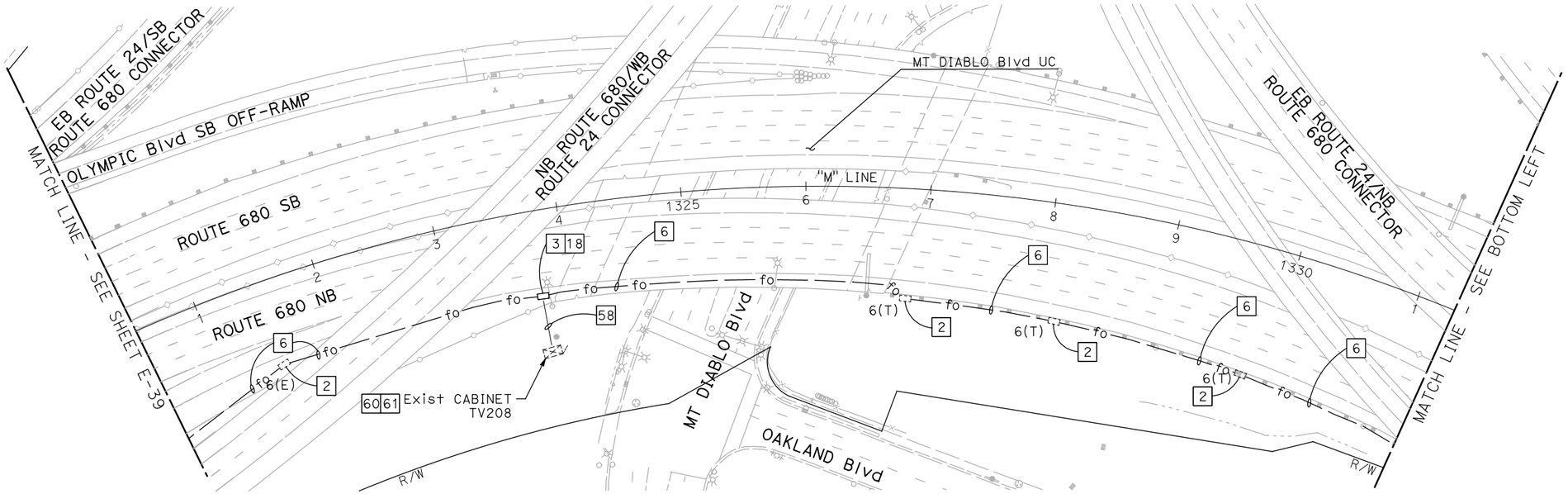
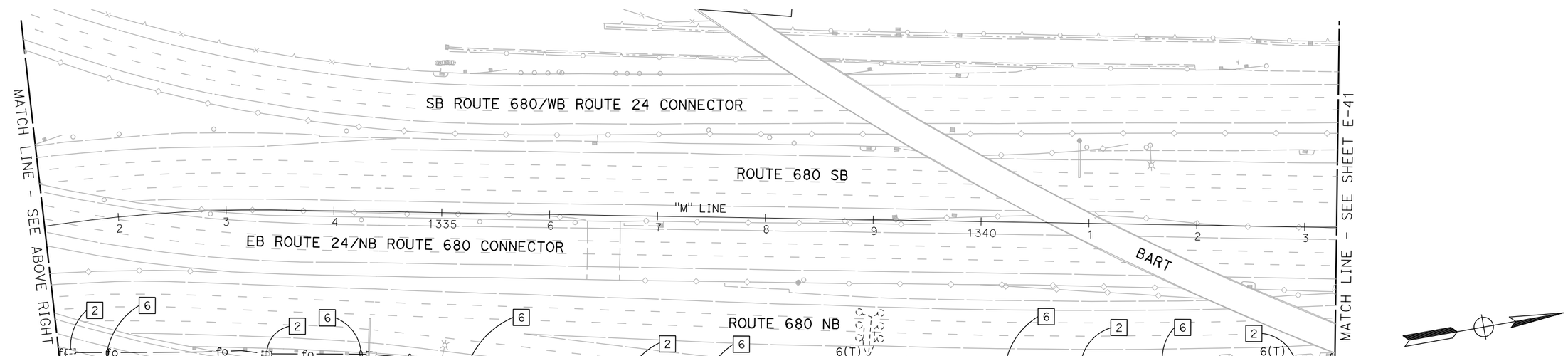
OAKLAND, CA 94607





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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-40

REVISED BY | DATE REVISED
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	108	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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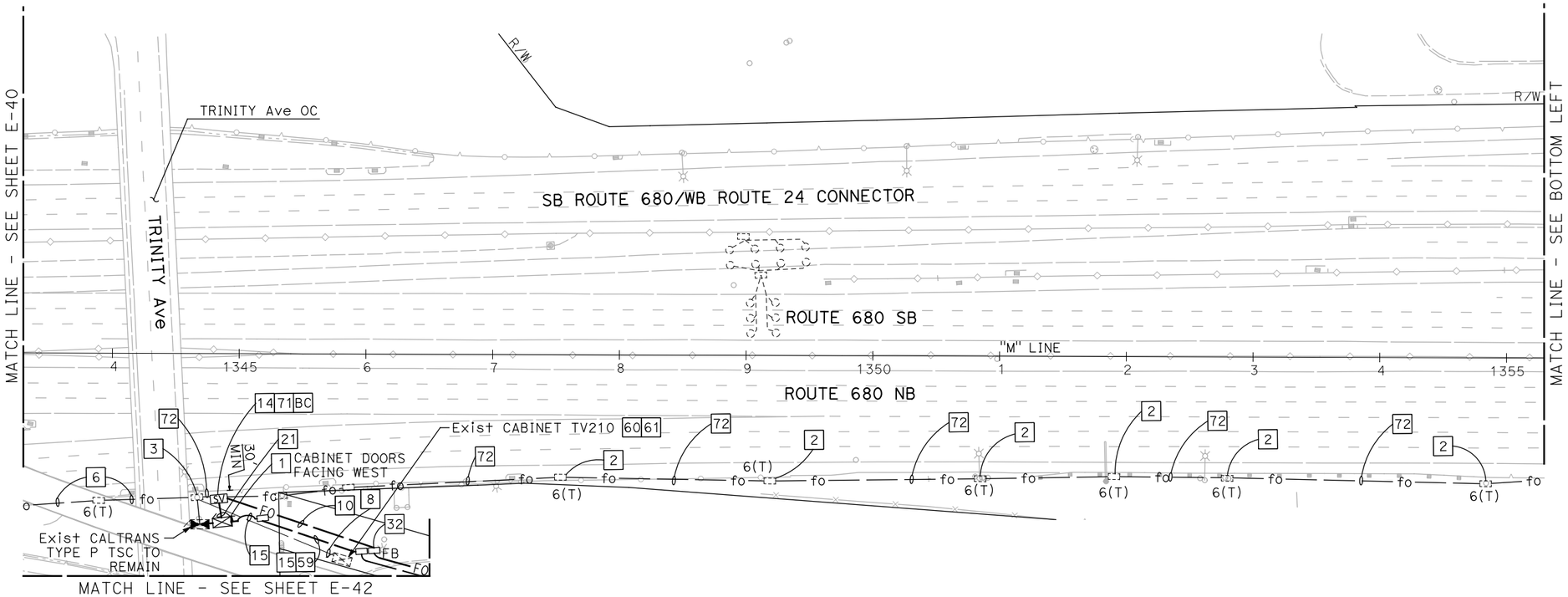
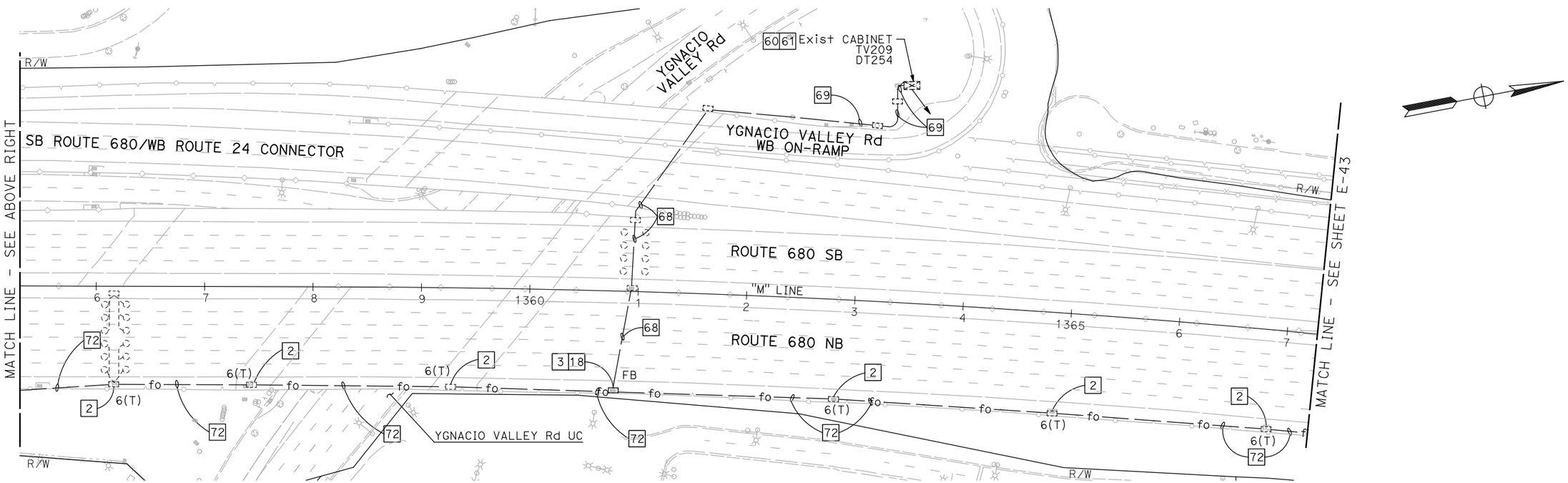
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607





BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	109	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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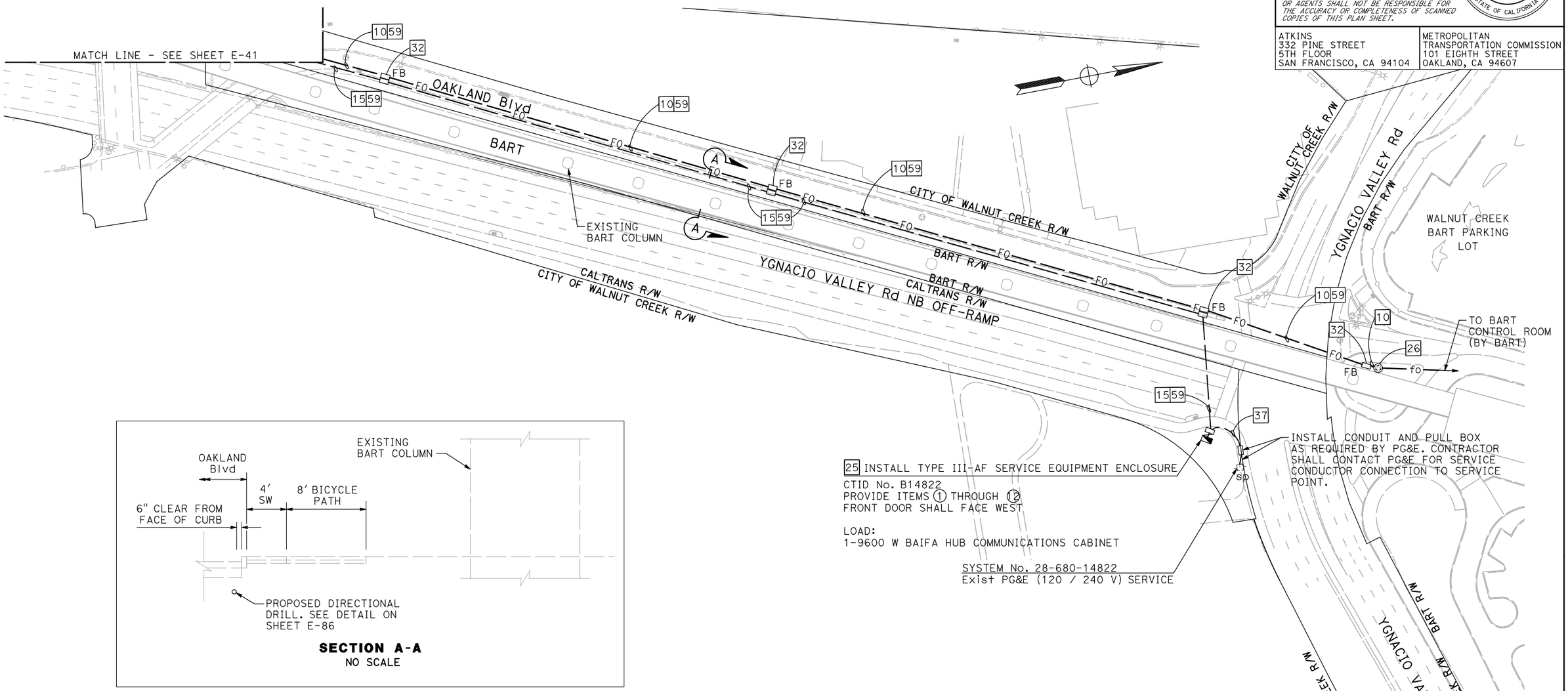
101 EIGHTH STREET
OAKLAND, CA 94607



SECTION A-A
NO SCALE

BACKHAUL COMMUNICATIONS SYSTEM
(WALNUT CREEK HUB)

SCALE: 1" = 50'

NOTE:

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

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FUNCTIONAL SUPERVISOR: KAI CHAN

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 | DGN FILE => 0414000490ua042.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	110	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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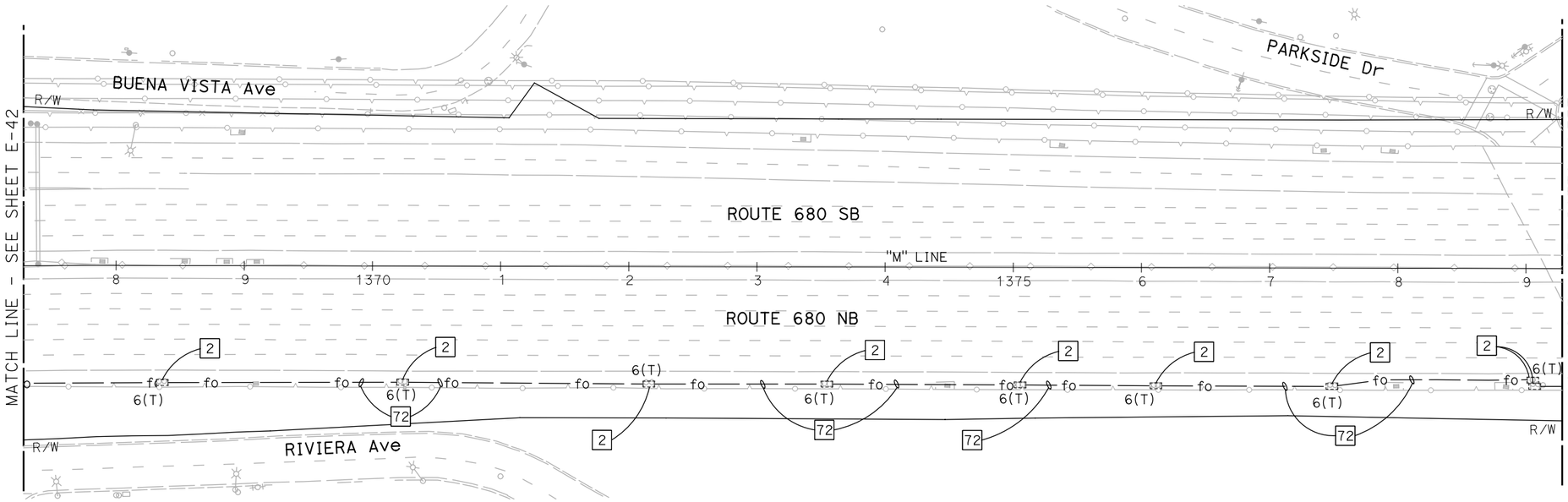

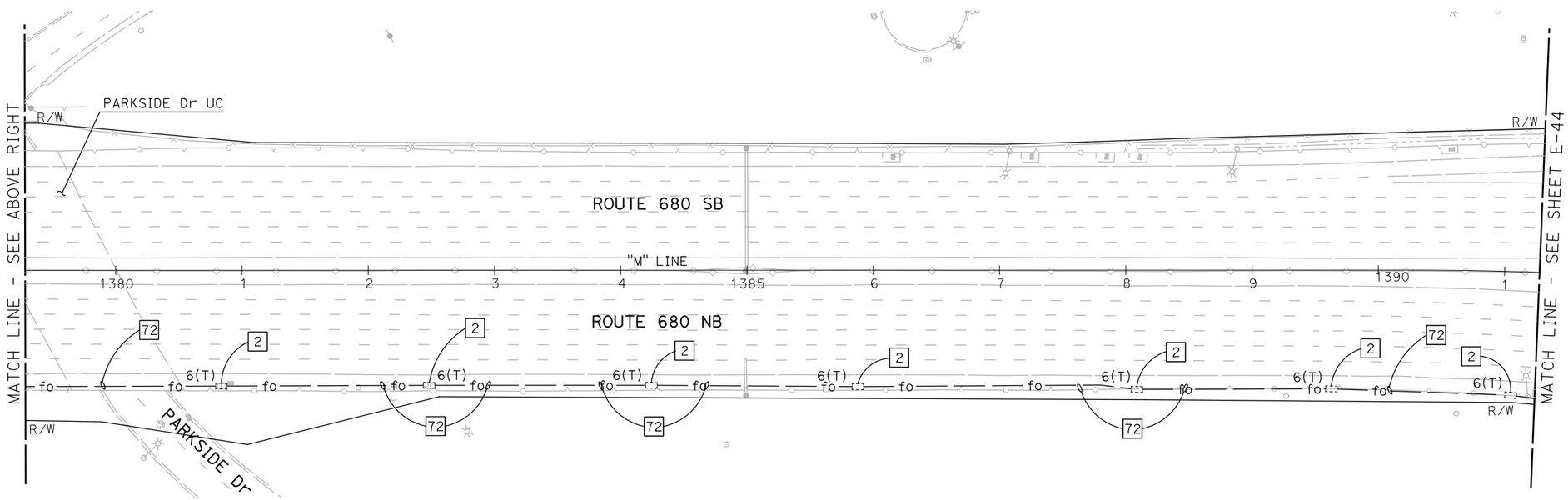

NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-43

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	111	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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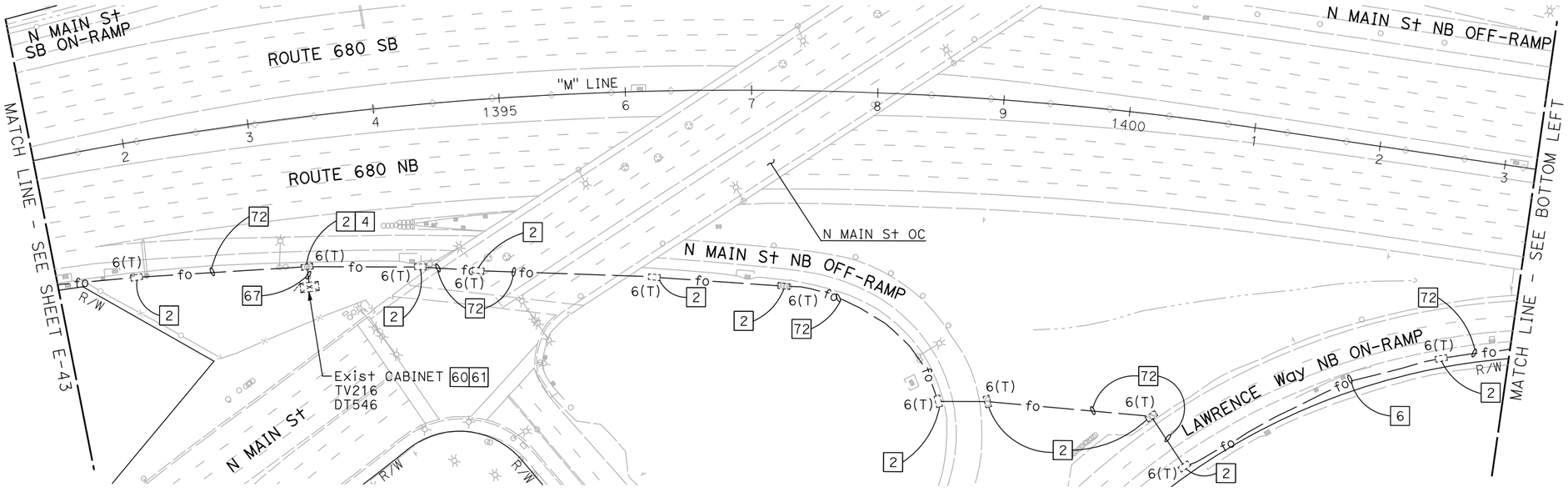

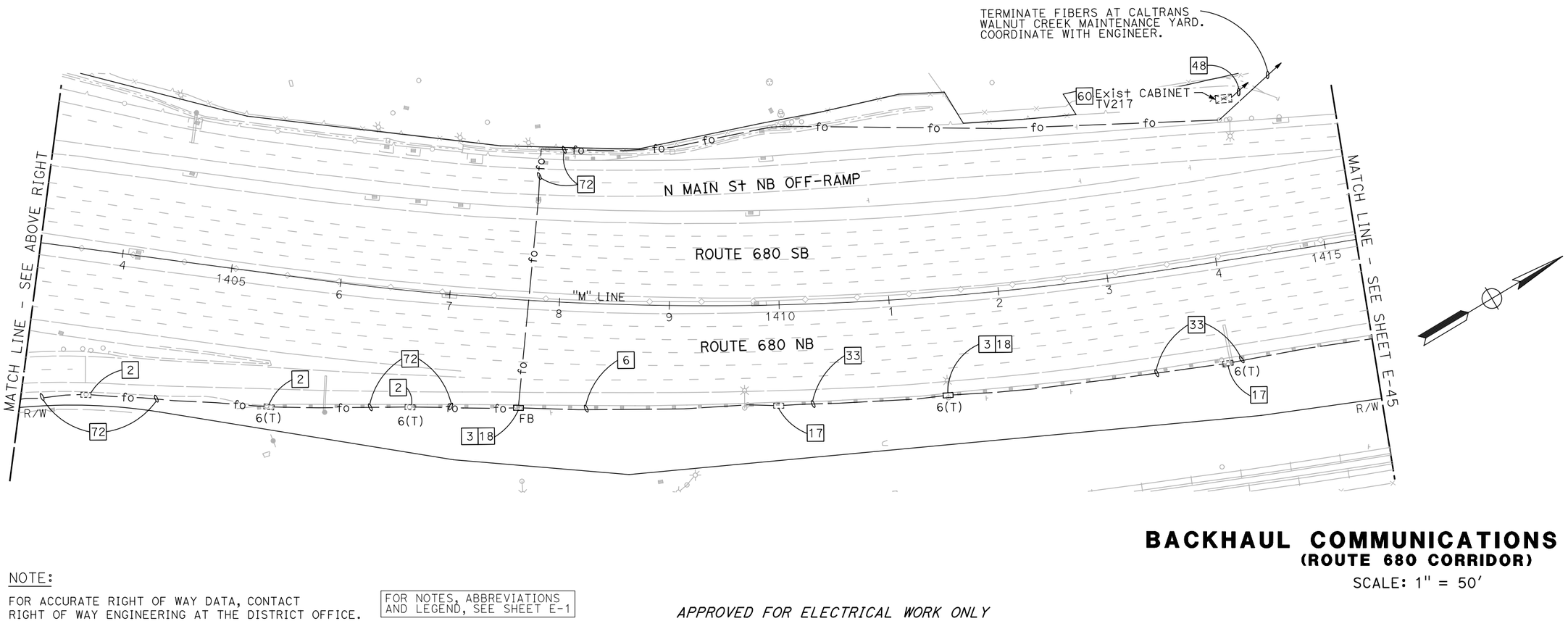

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-44

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	112	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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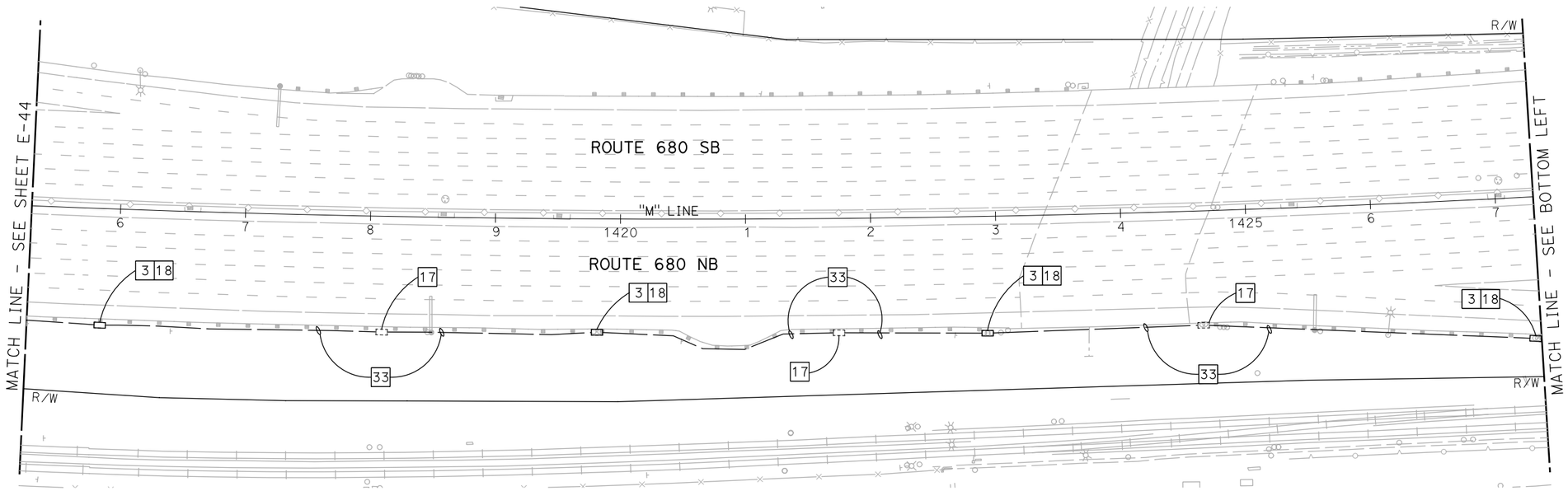

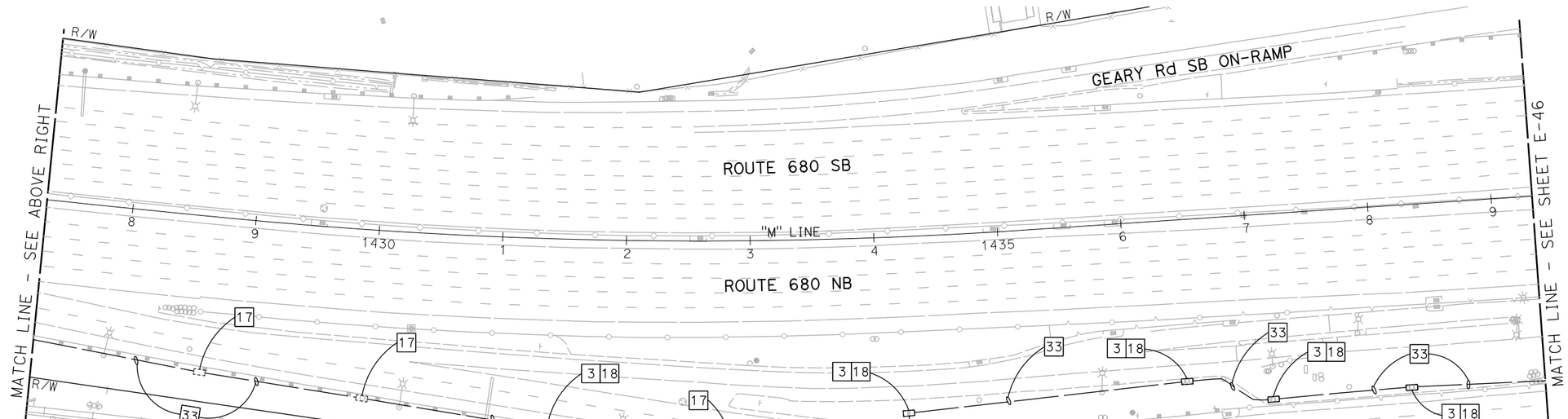

BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

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USERNAME => ZERE2344
DGN FILE => 0414000490ua045.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0750

PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	113	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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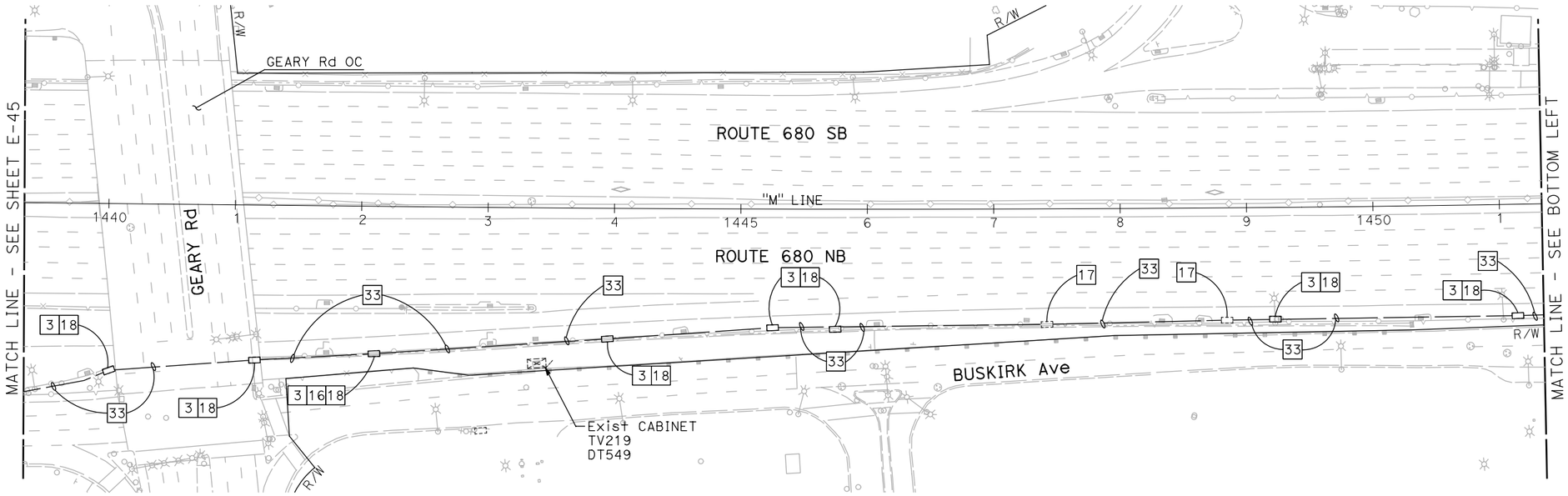

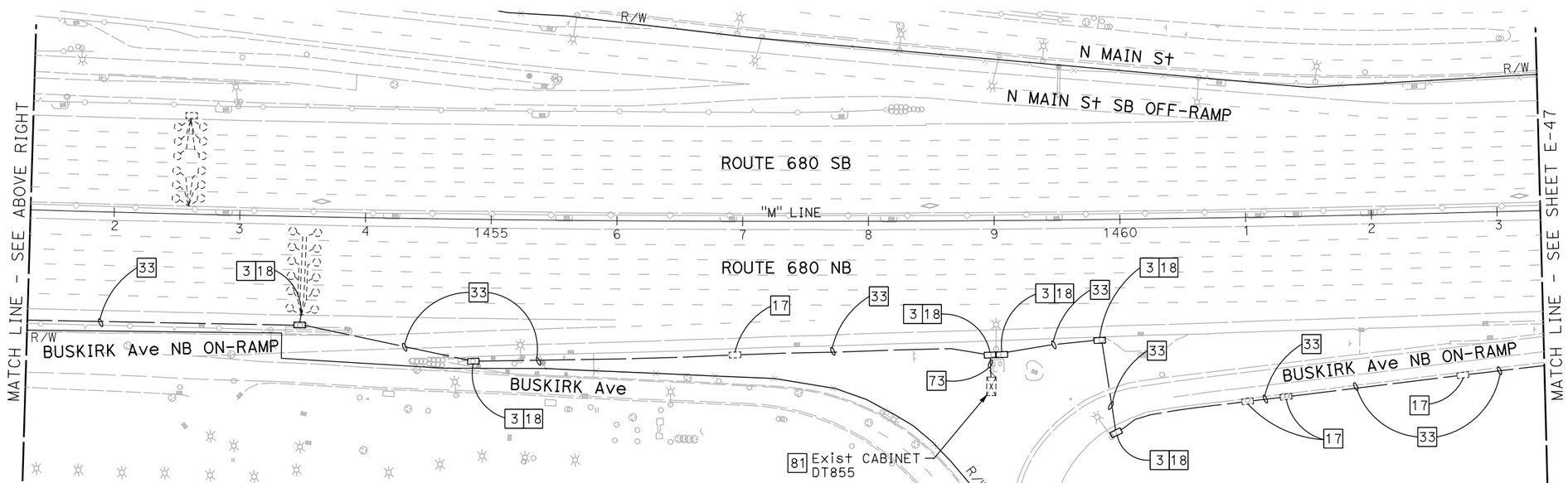

BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	114	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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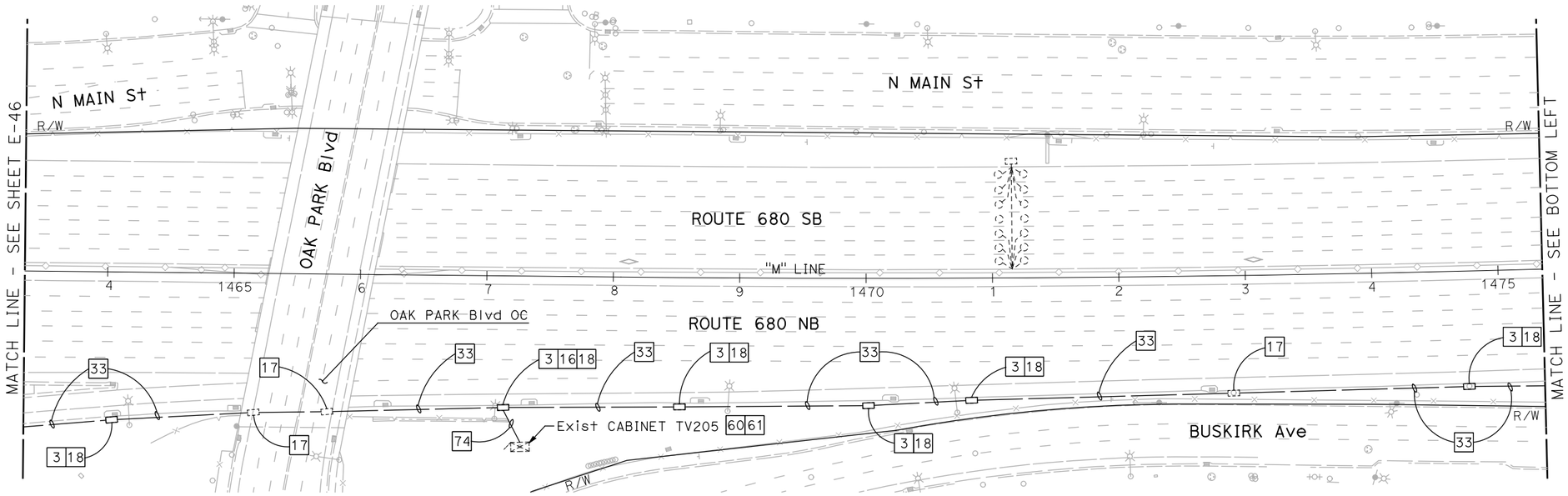

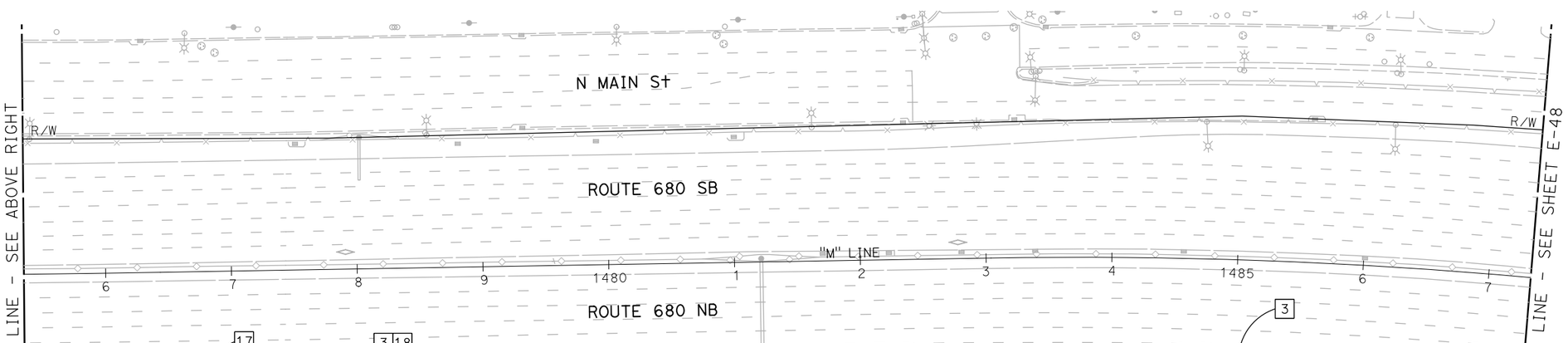

BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	115	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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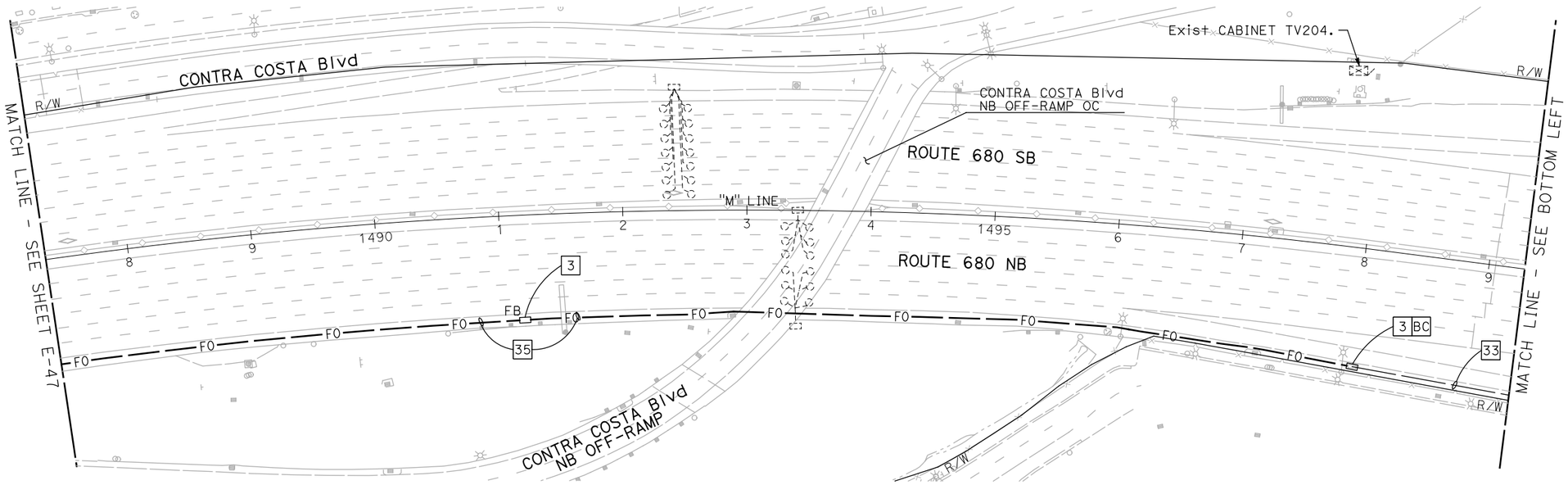

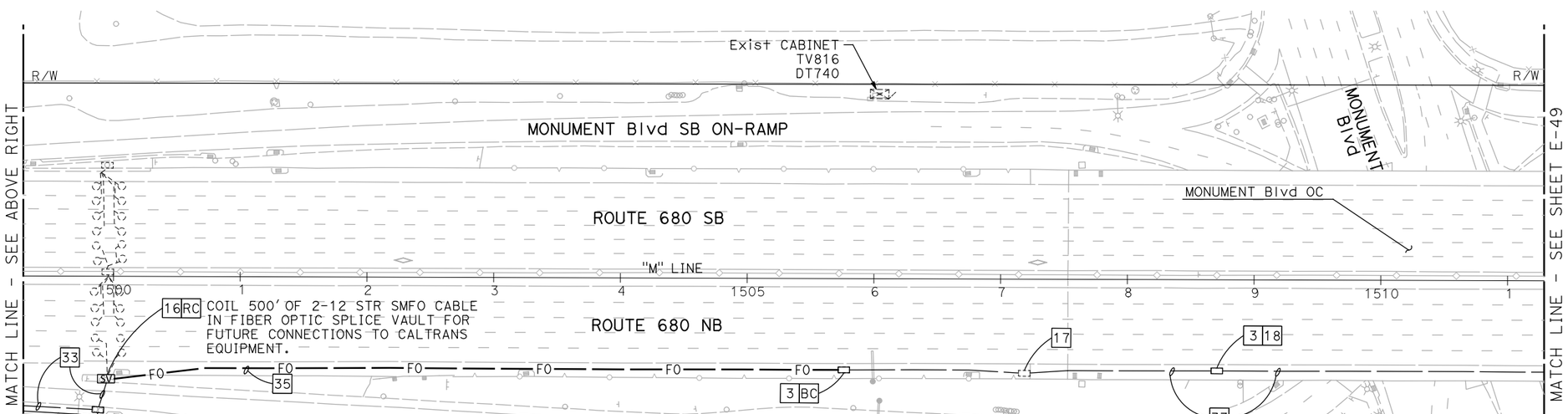

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-48

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	116	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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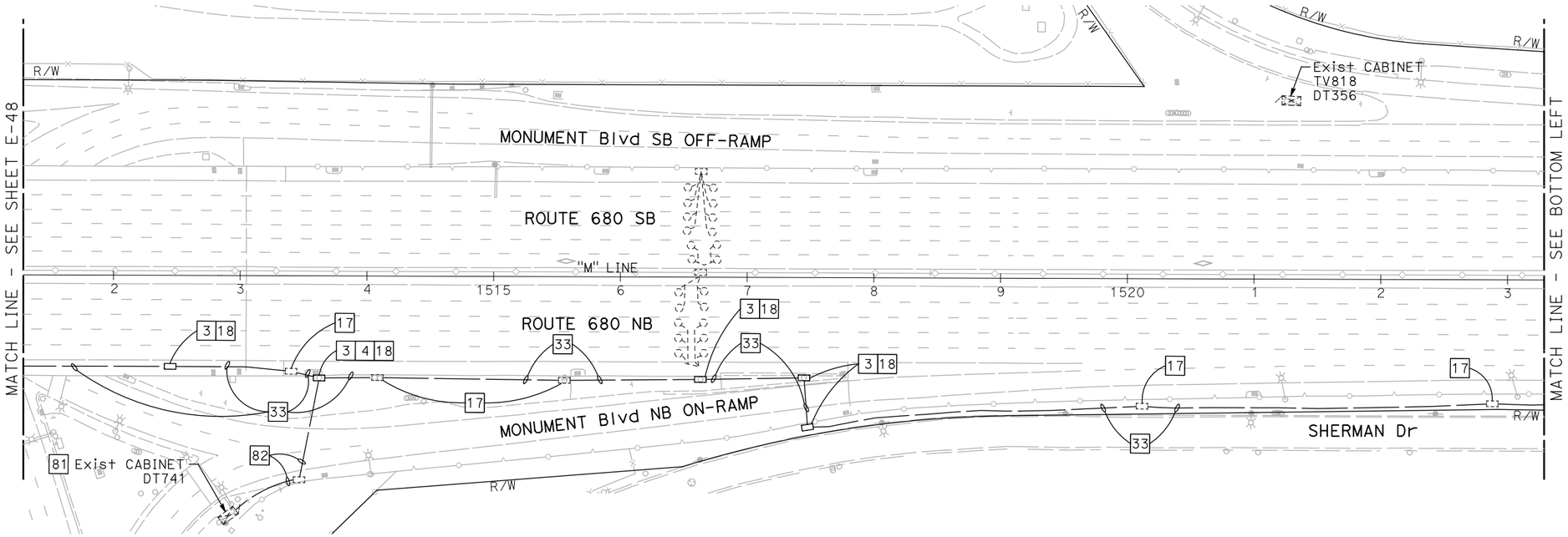

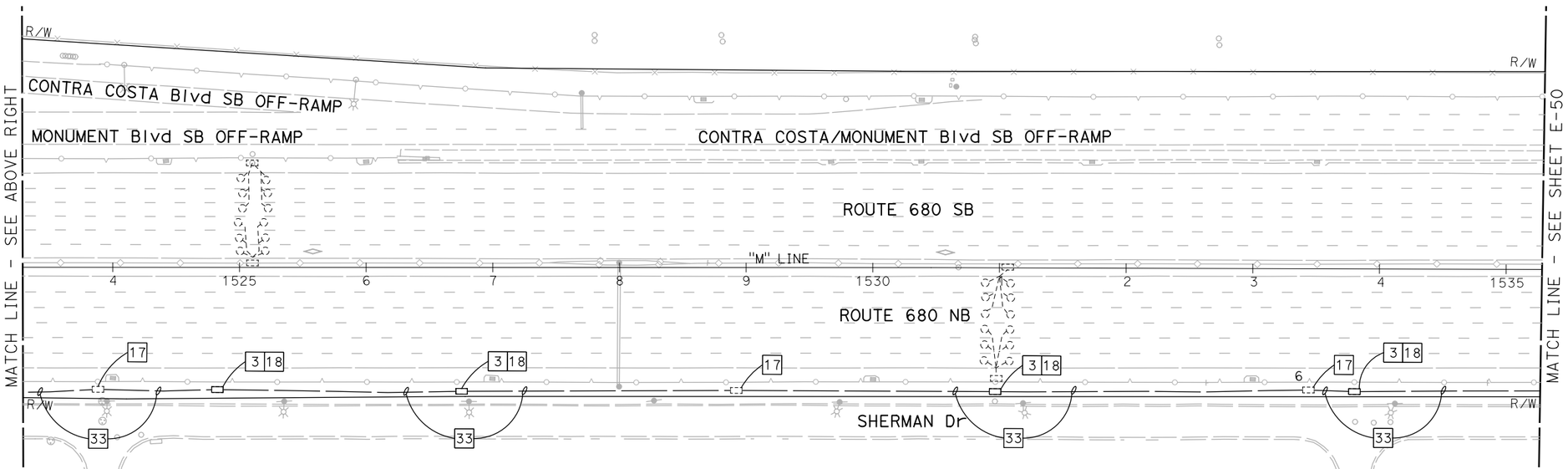

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-49

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	117	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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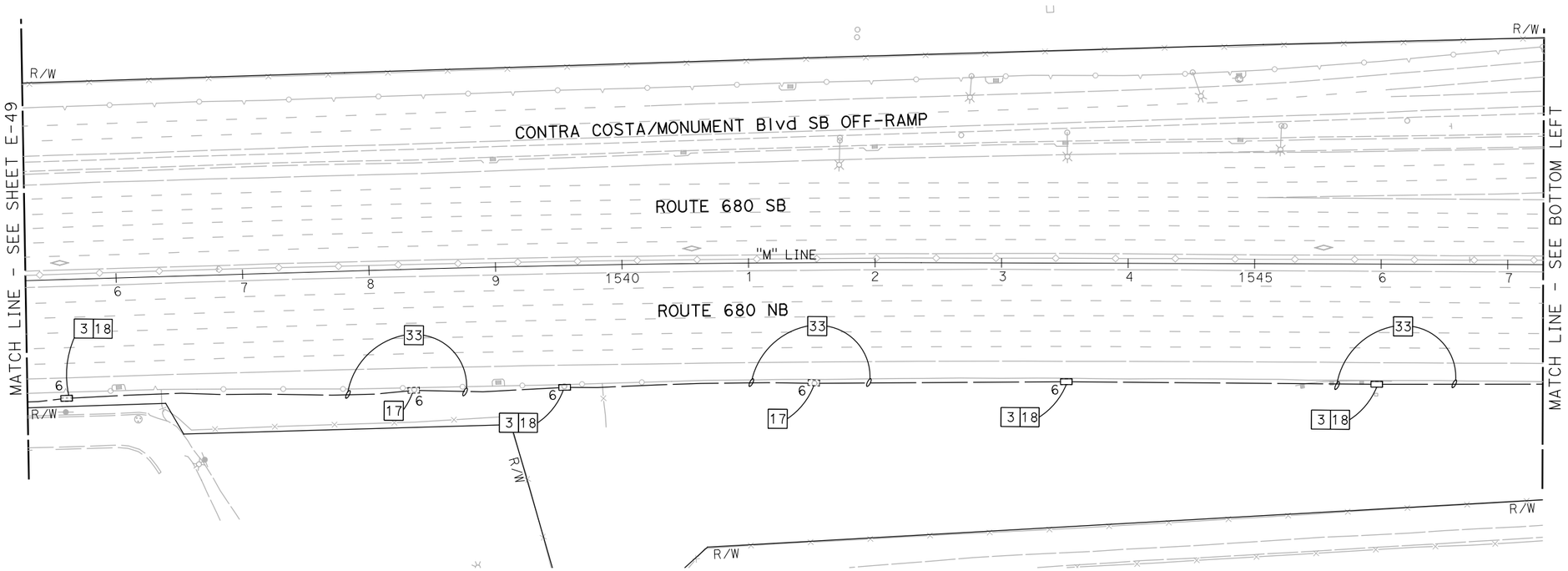

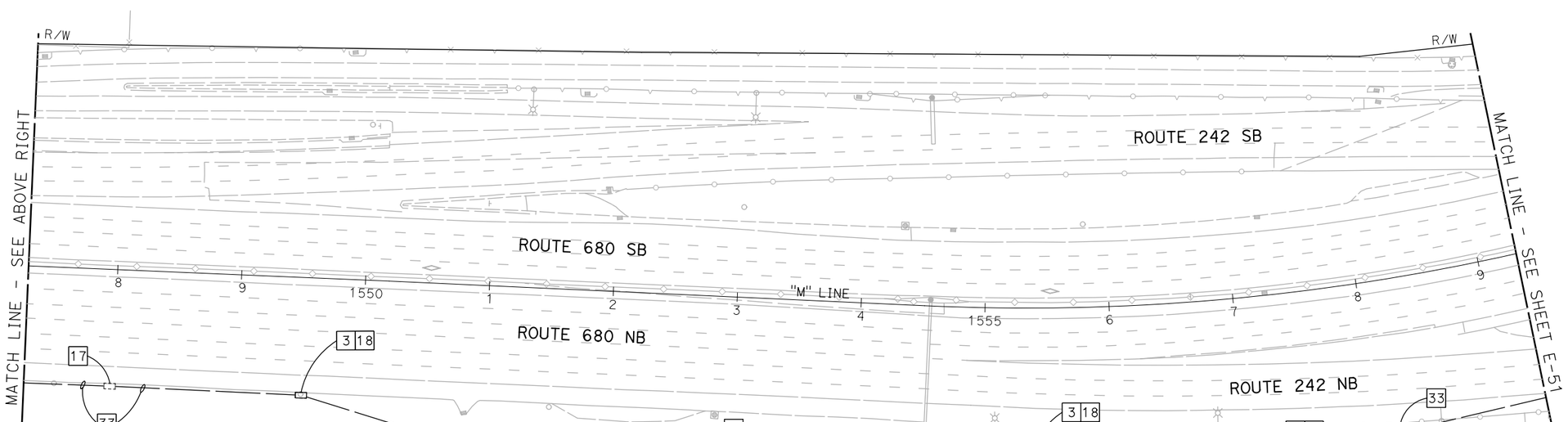

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-50

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	118	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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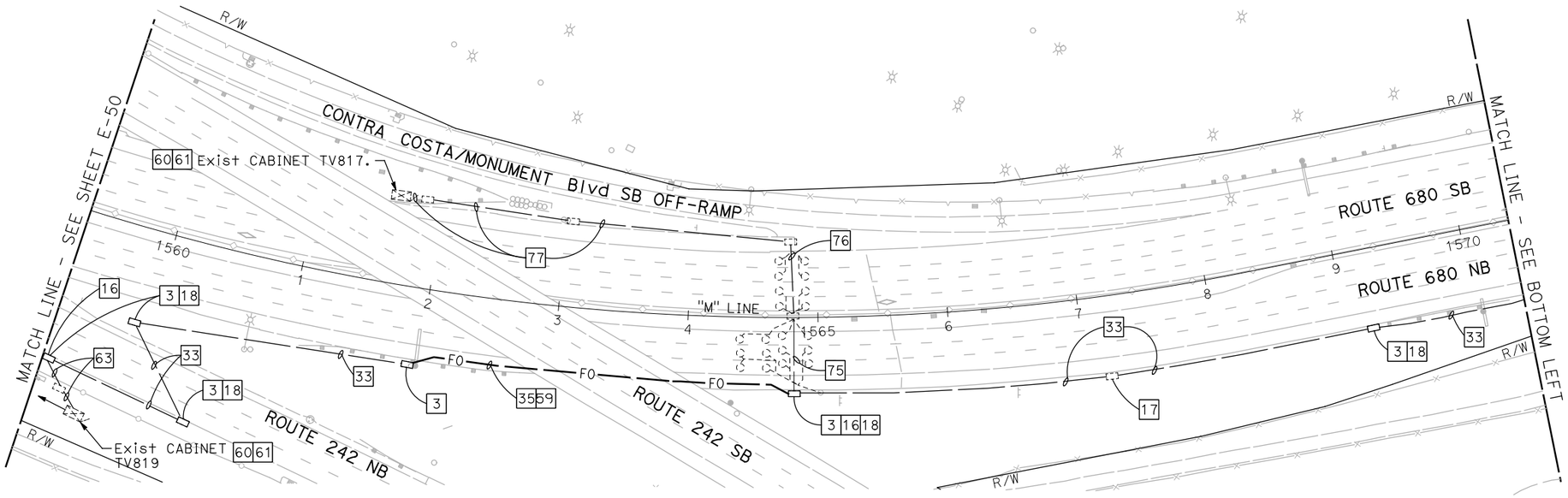
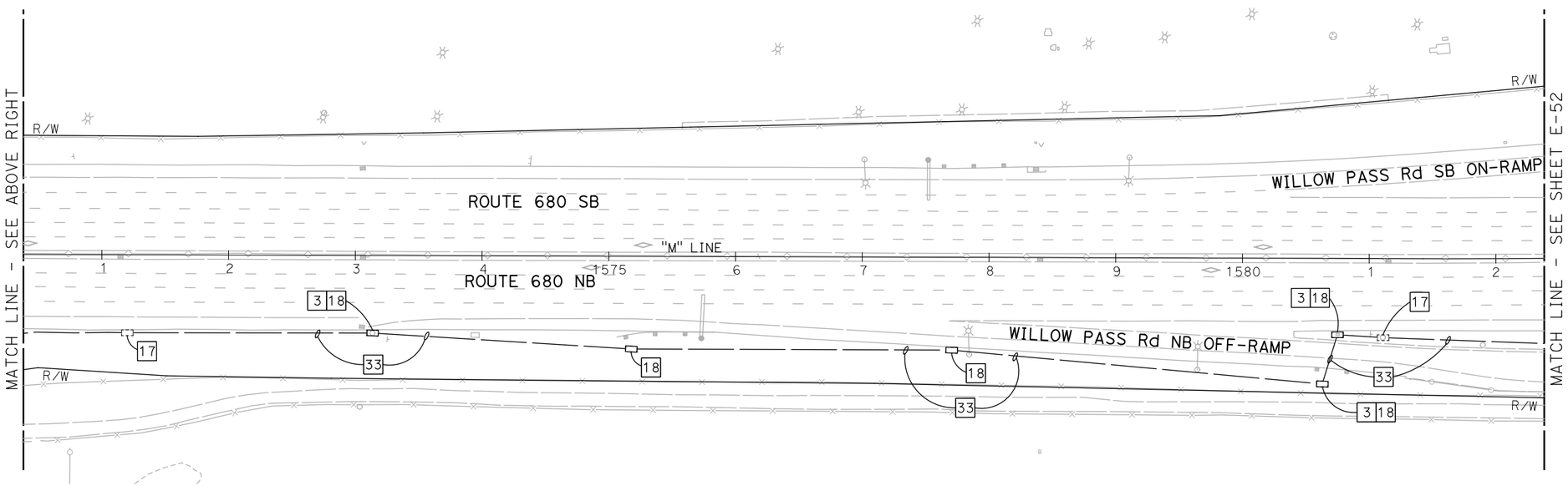
OAKLAND, CA 94607





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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-51

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	119	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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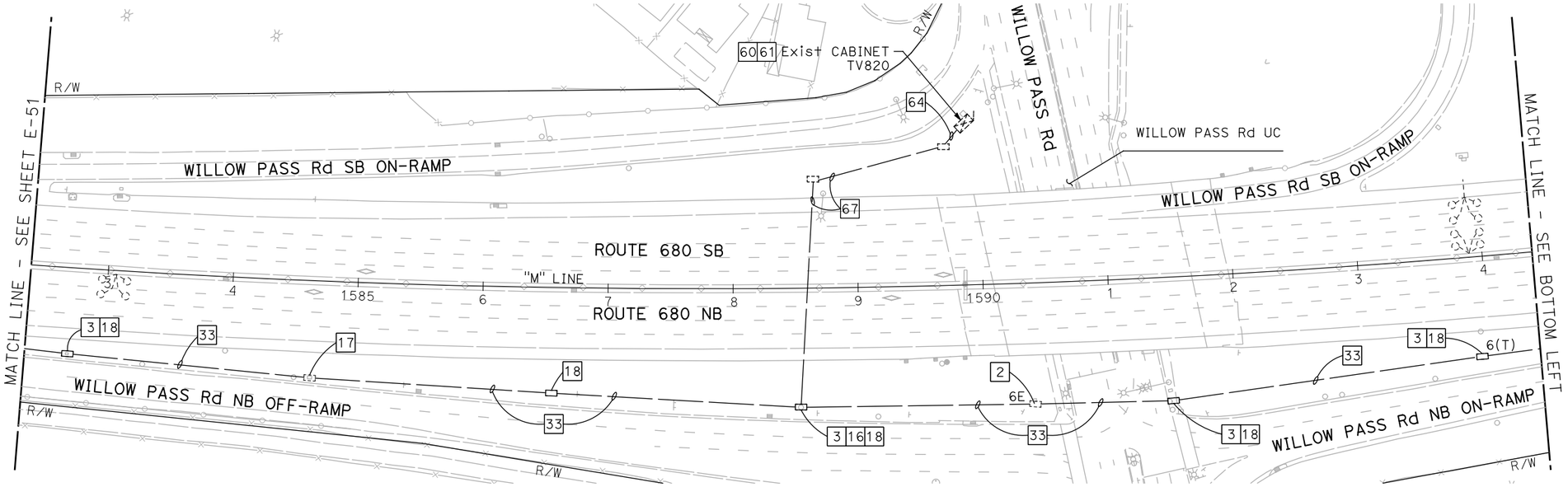

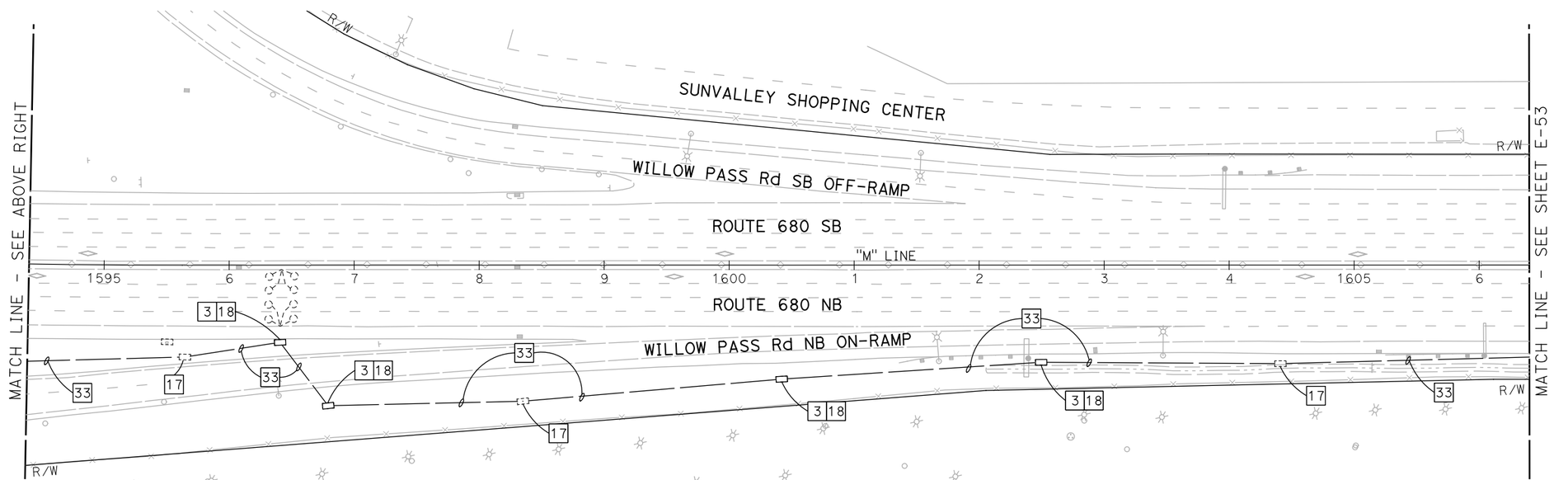

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-52

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	120	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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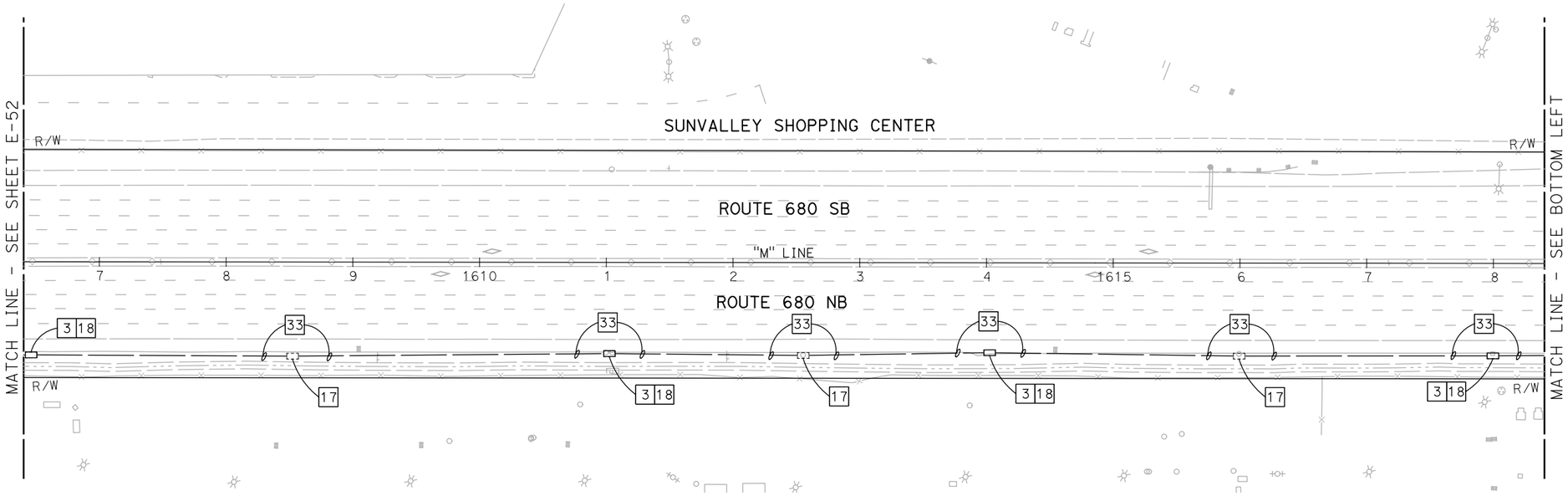

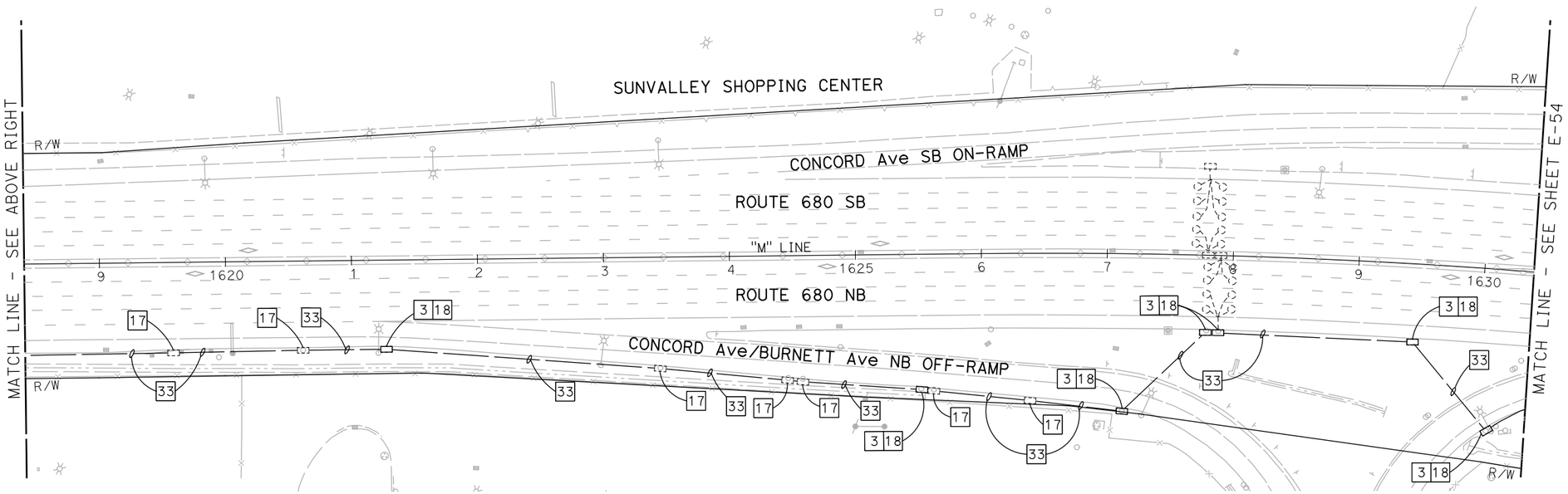

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-53

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	121	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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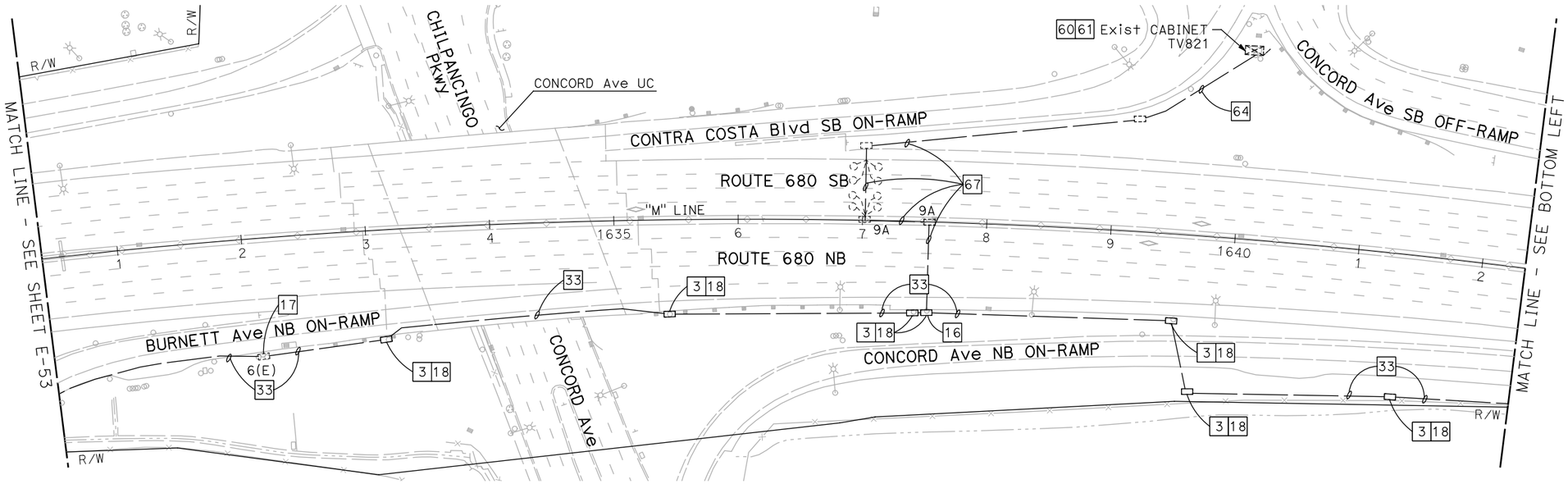

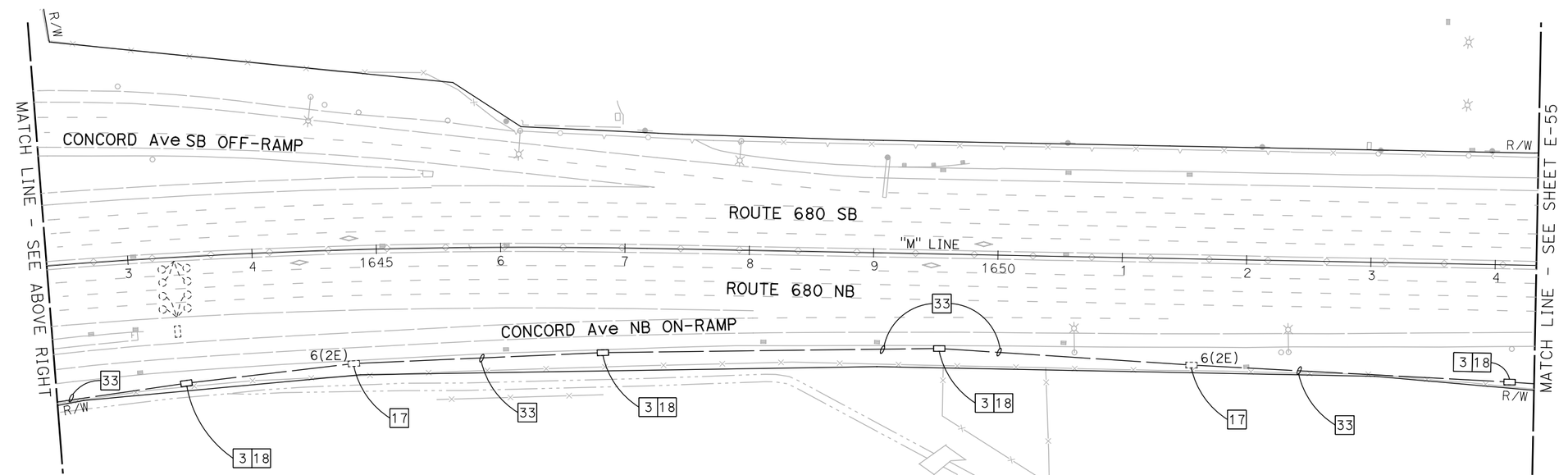

BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	122	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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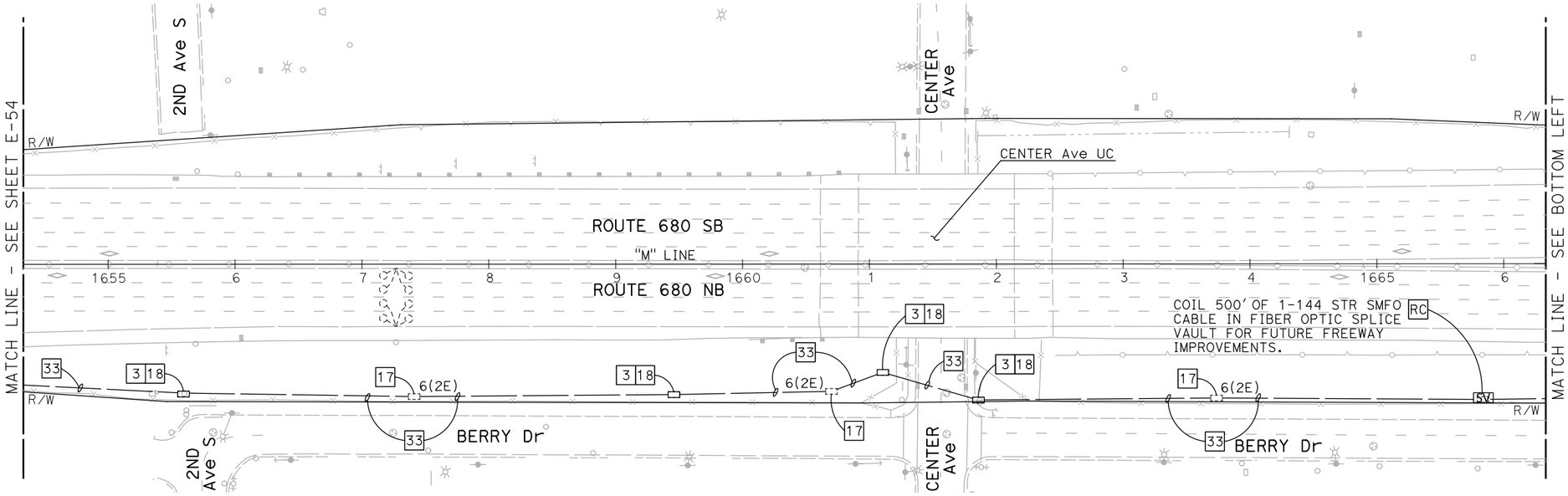

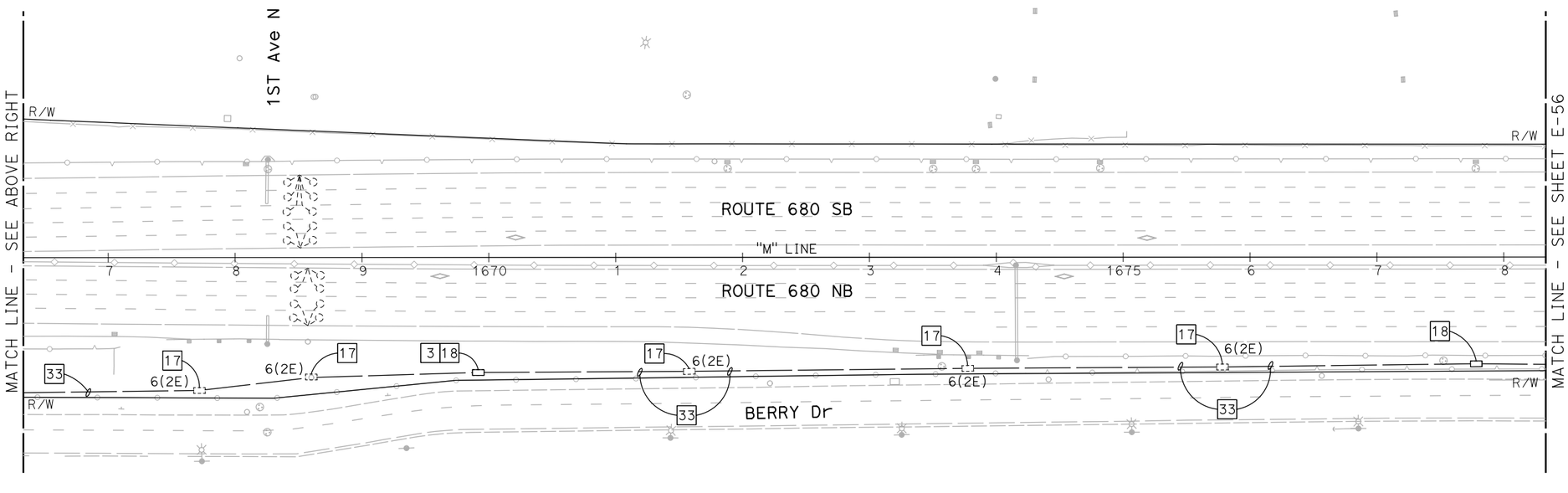

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	123	175

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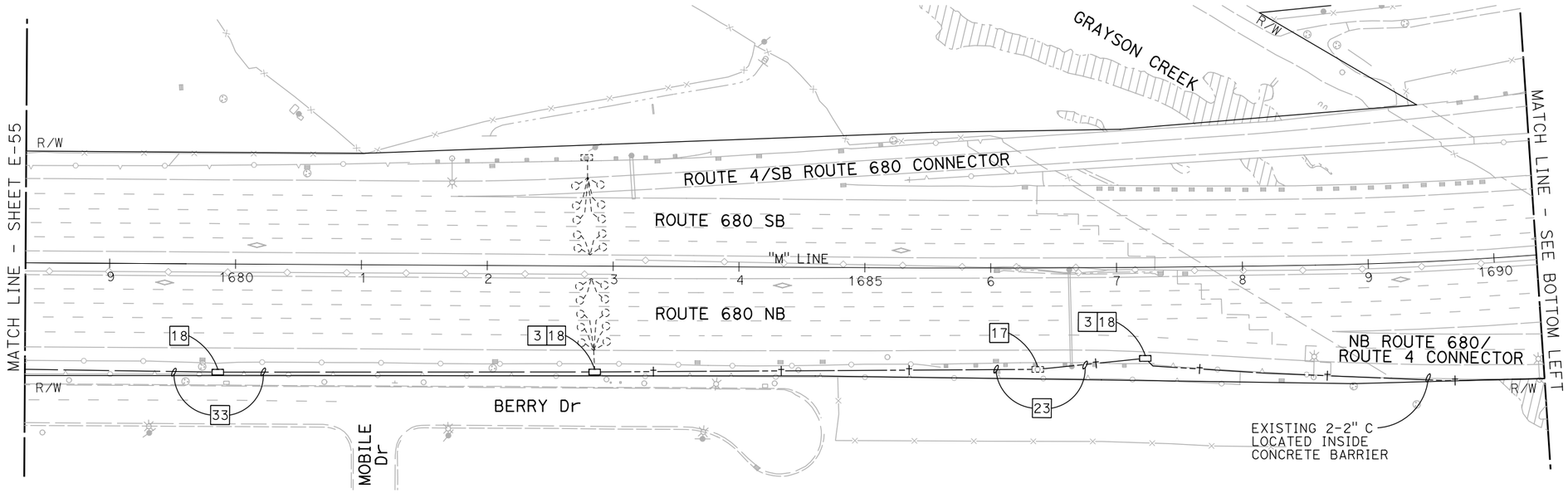

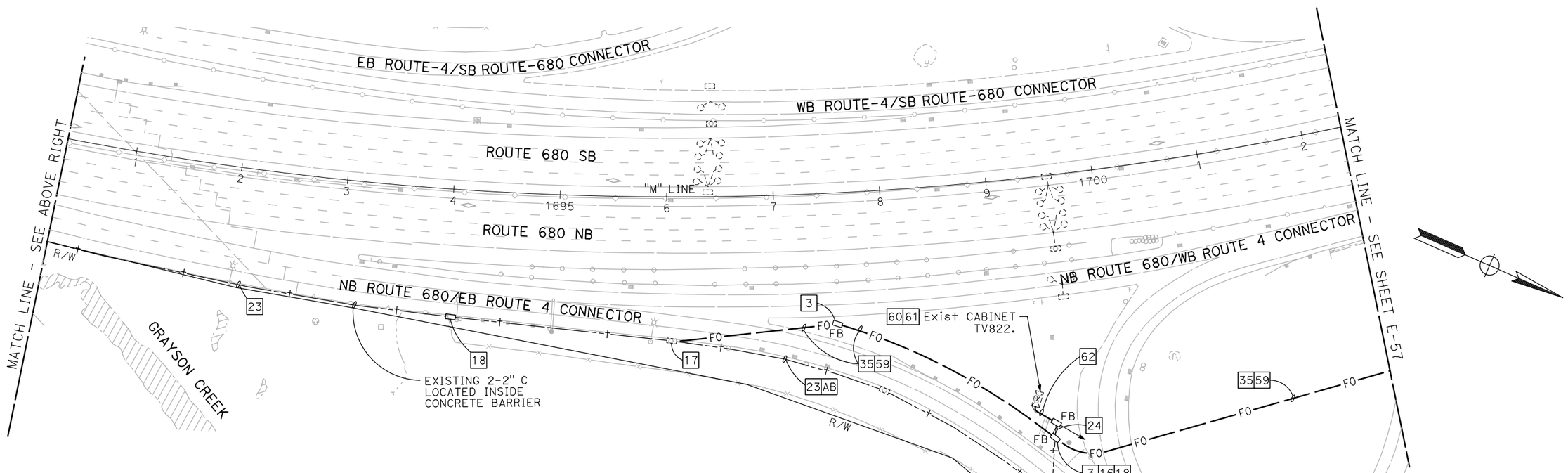

BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	124	175

REGISTERED ELECTRICAL ENGINEER DATE

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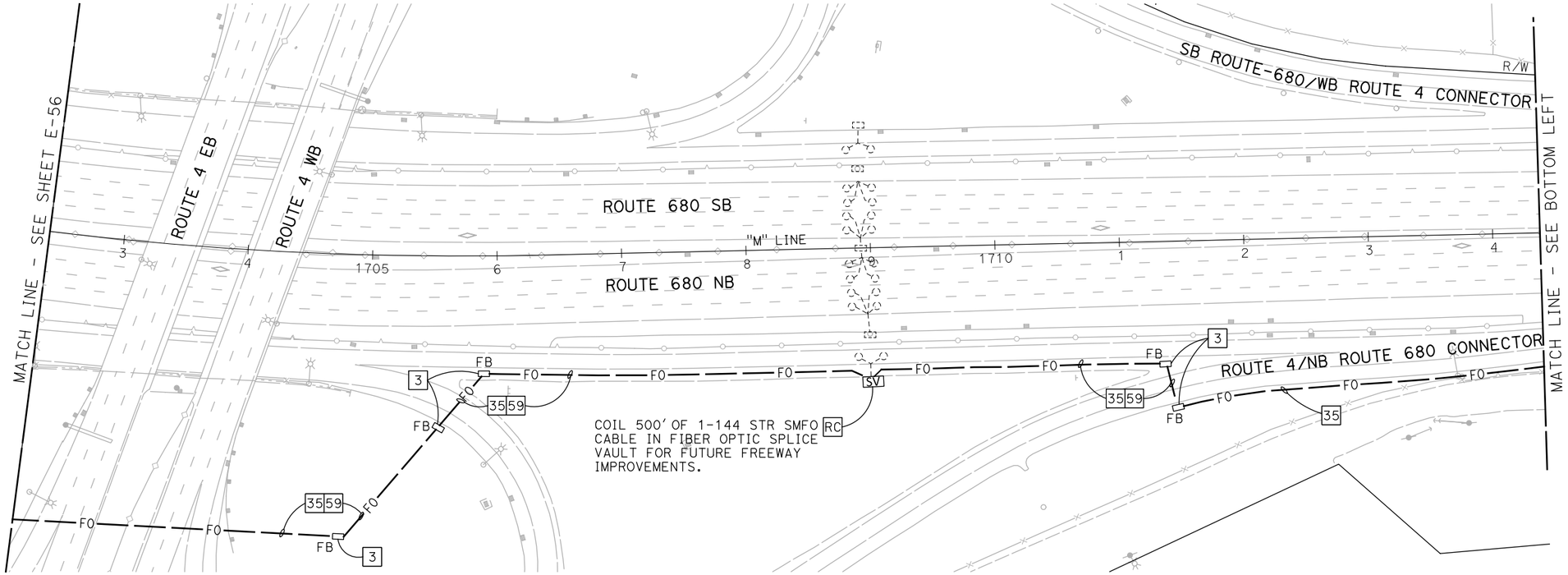

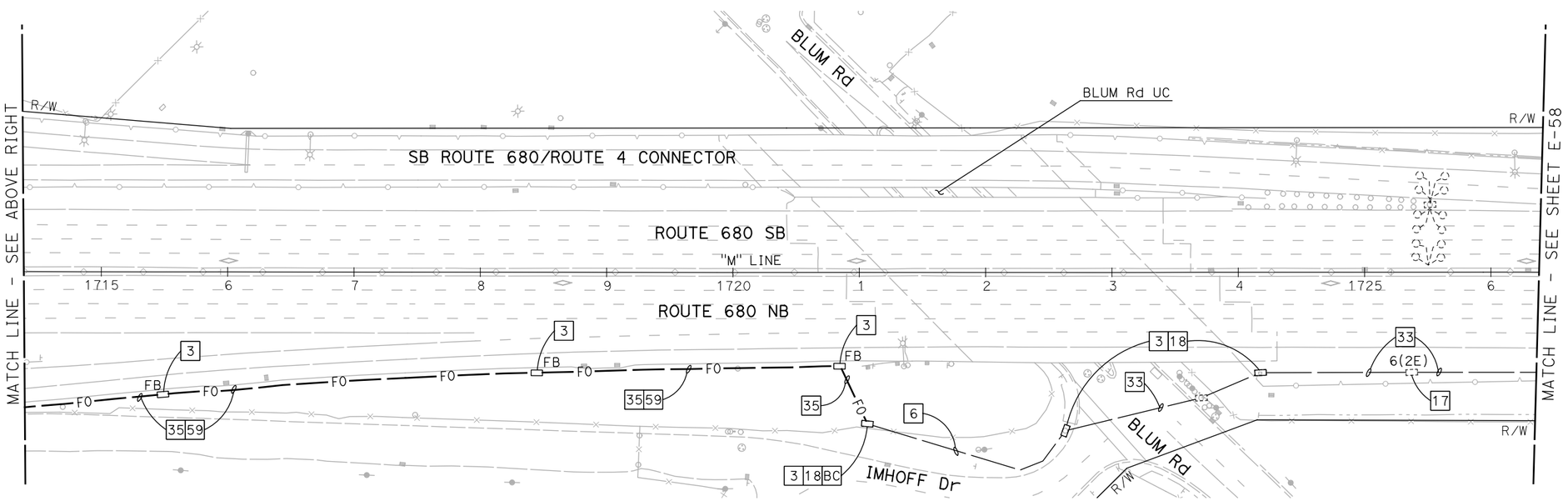

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	125	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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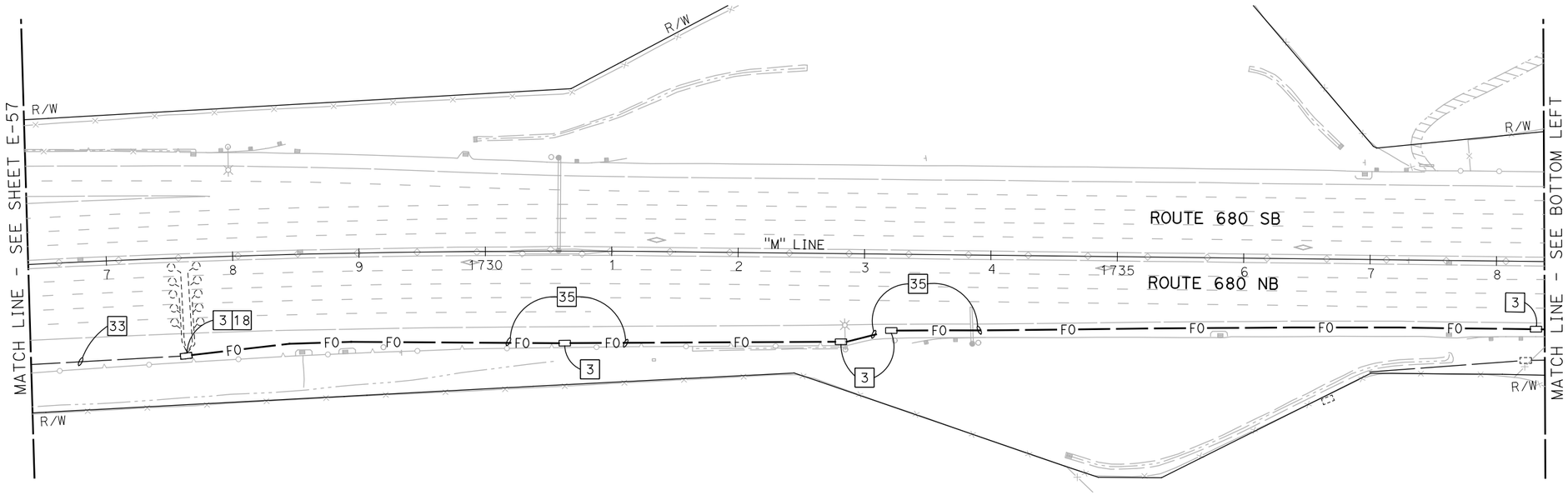

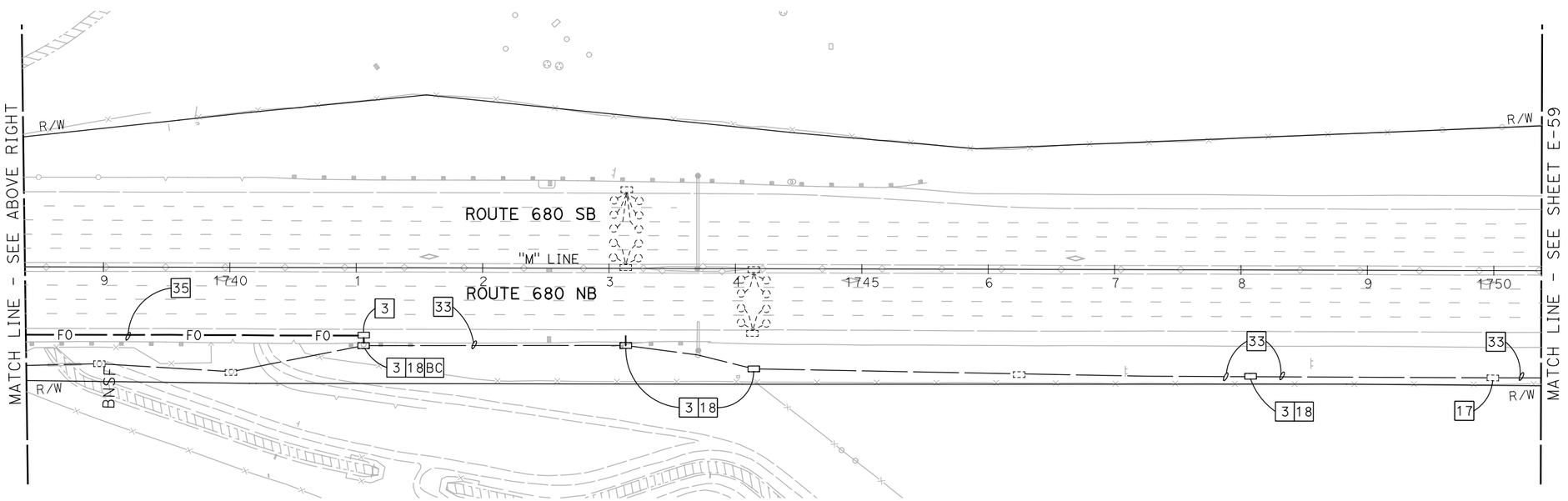

BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	126	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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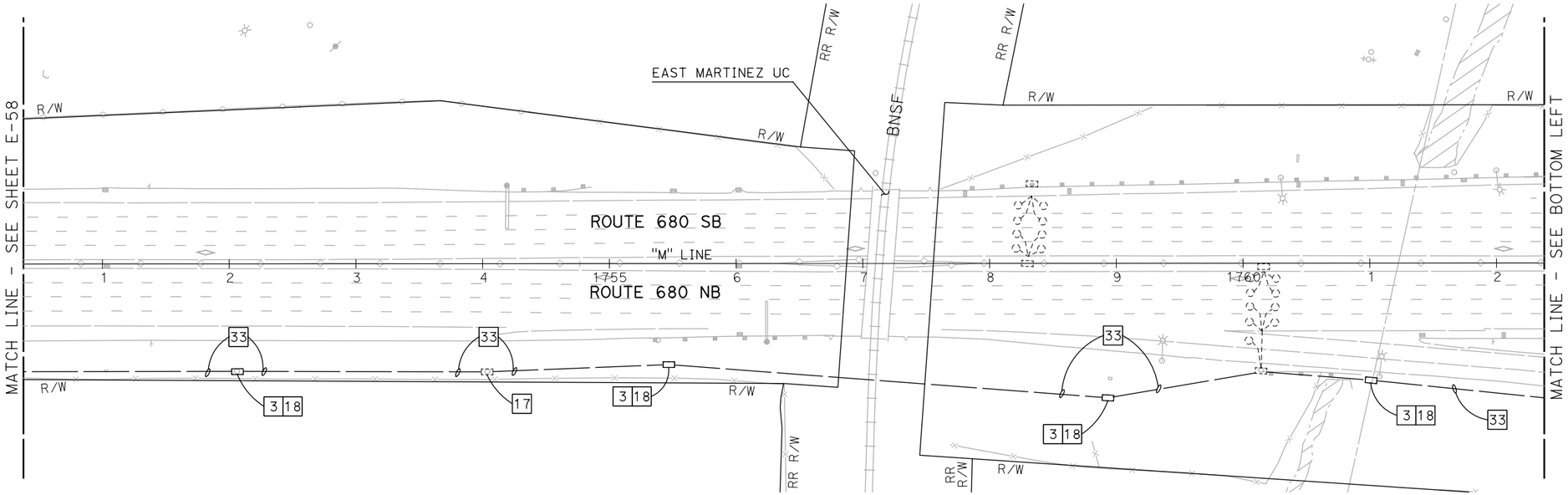

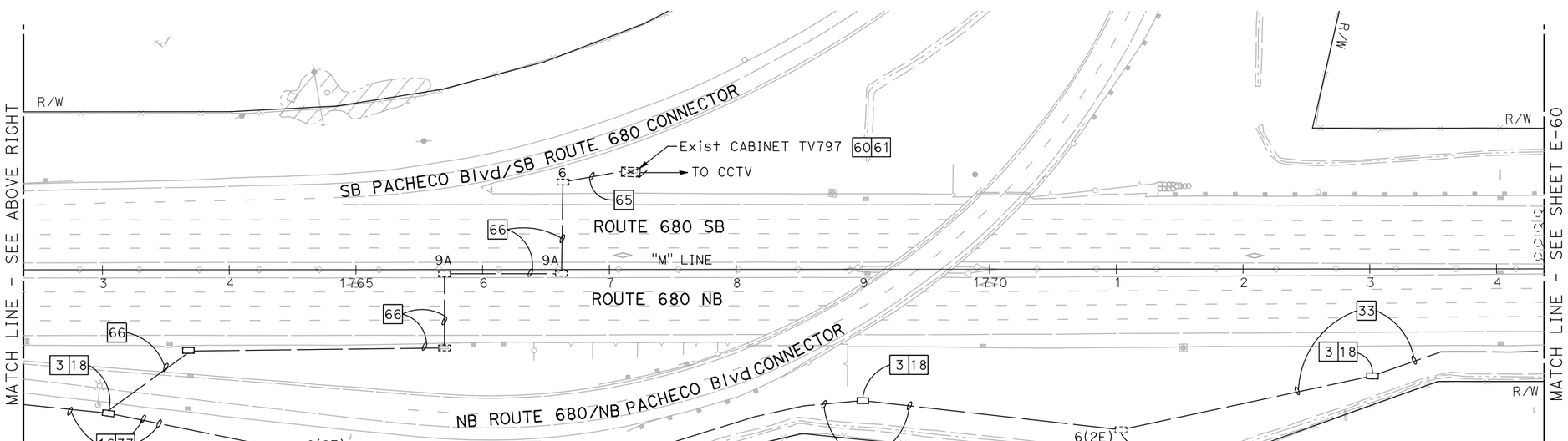

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	127	175

REGISTERED ELECTRICAL ENGINEER DATE

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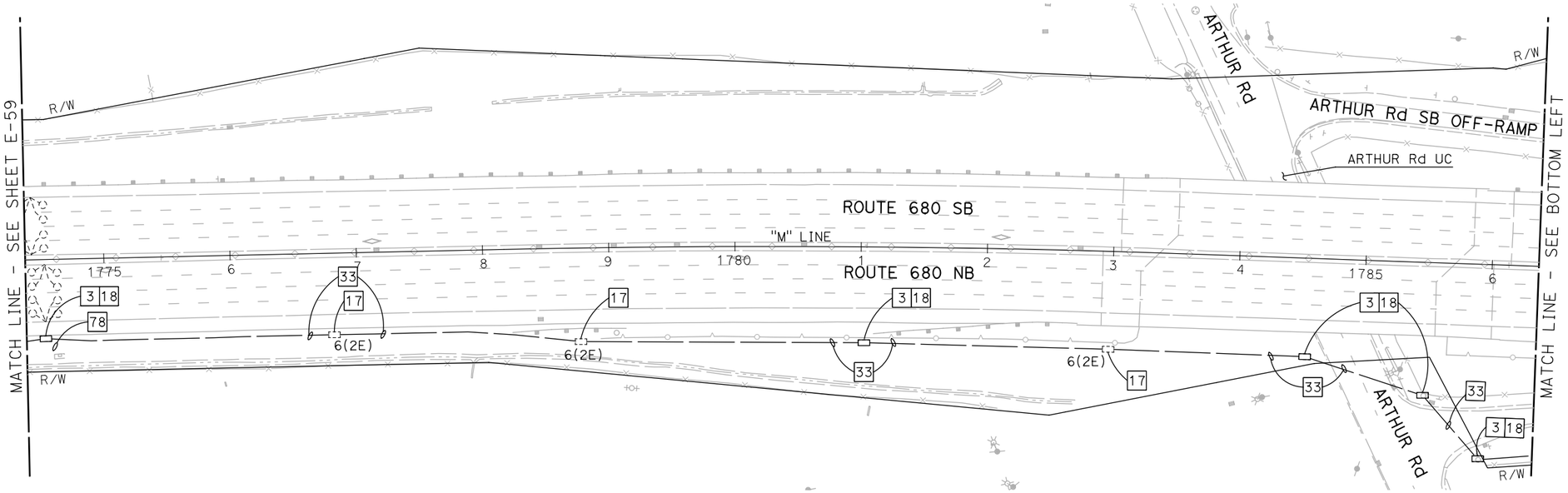

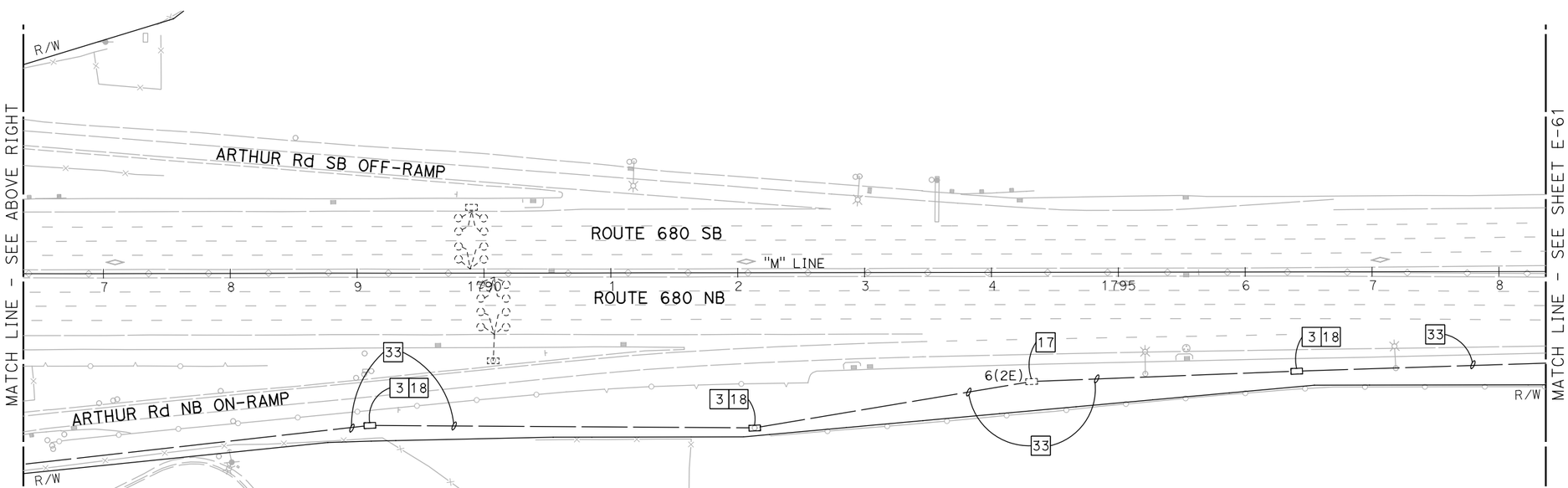

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BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

E-60

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	128	175

REGISTERED ELECTRICAL ENGINEER DATE

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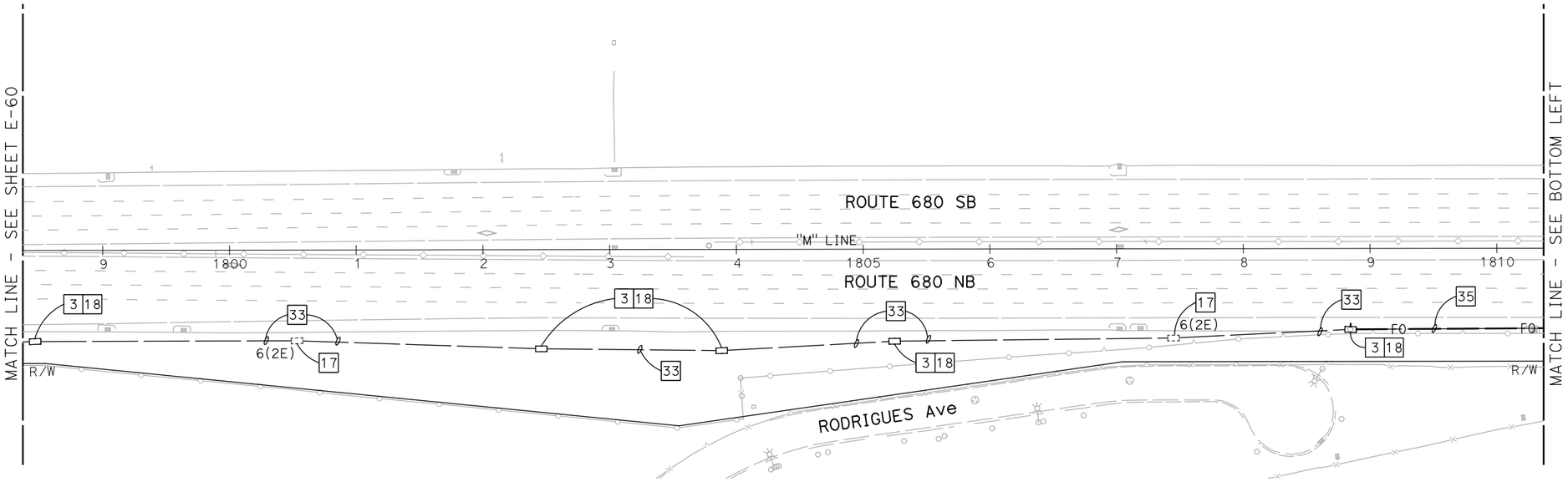

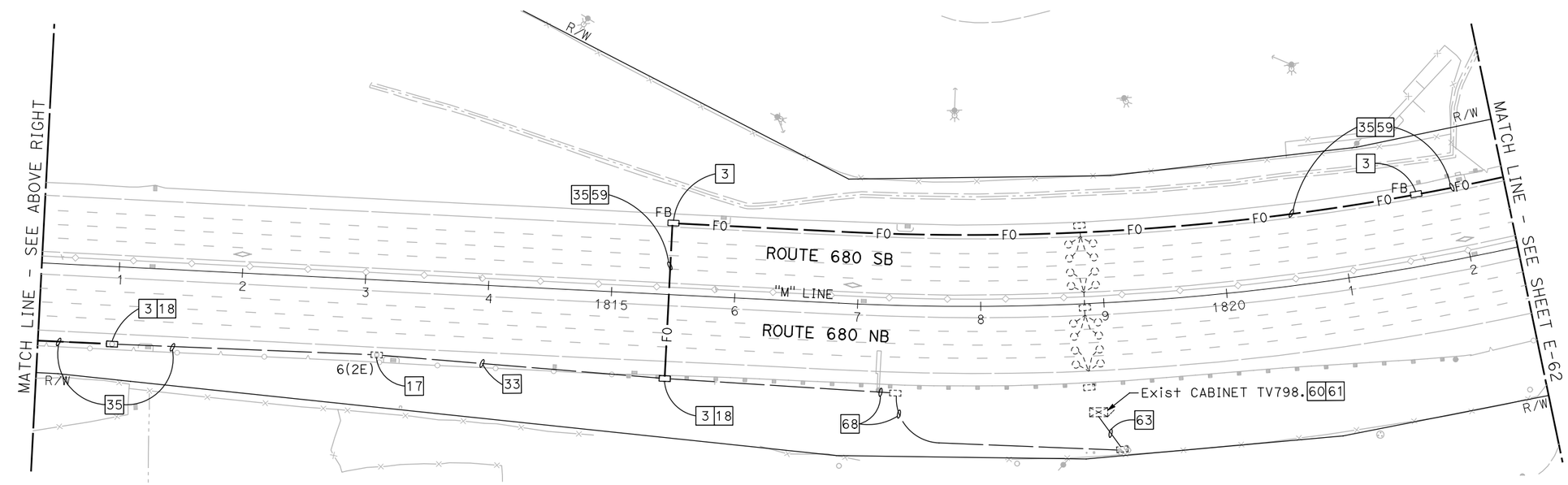

BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	129	175

REGISTERED ELECTRICAL ENGINEER DATE

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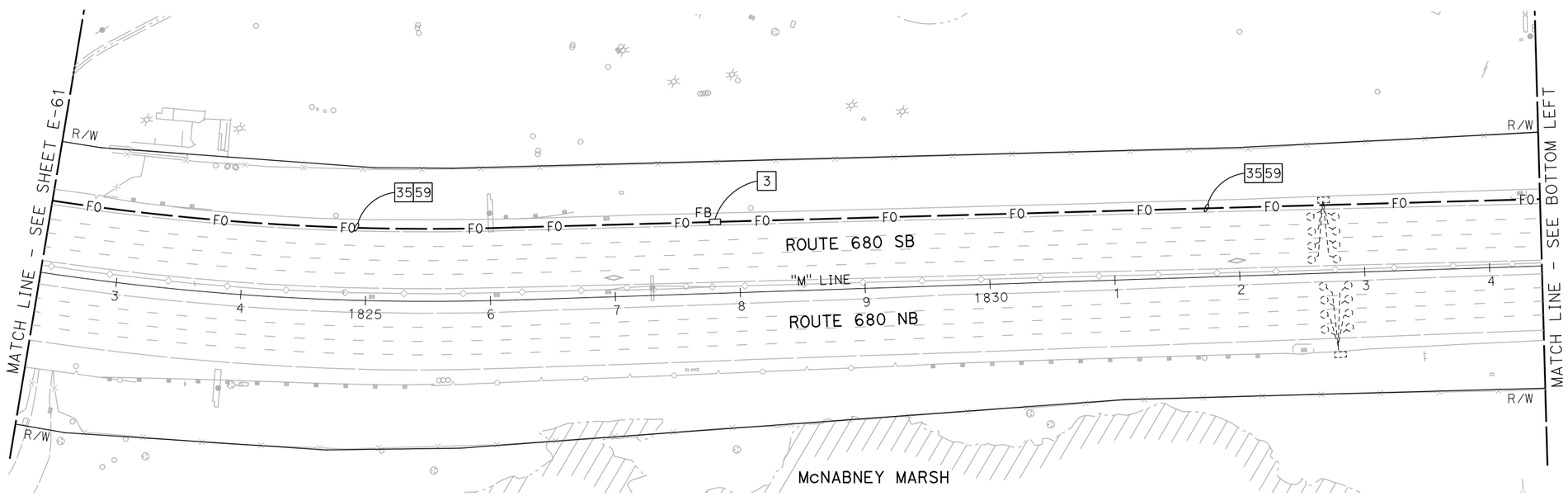

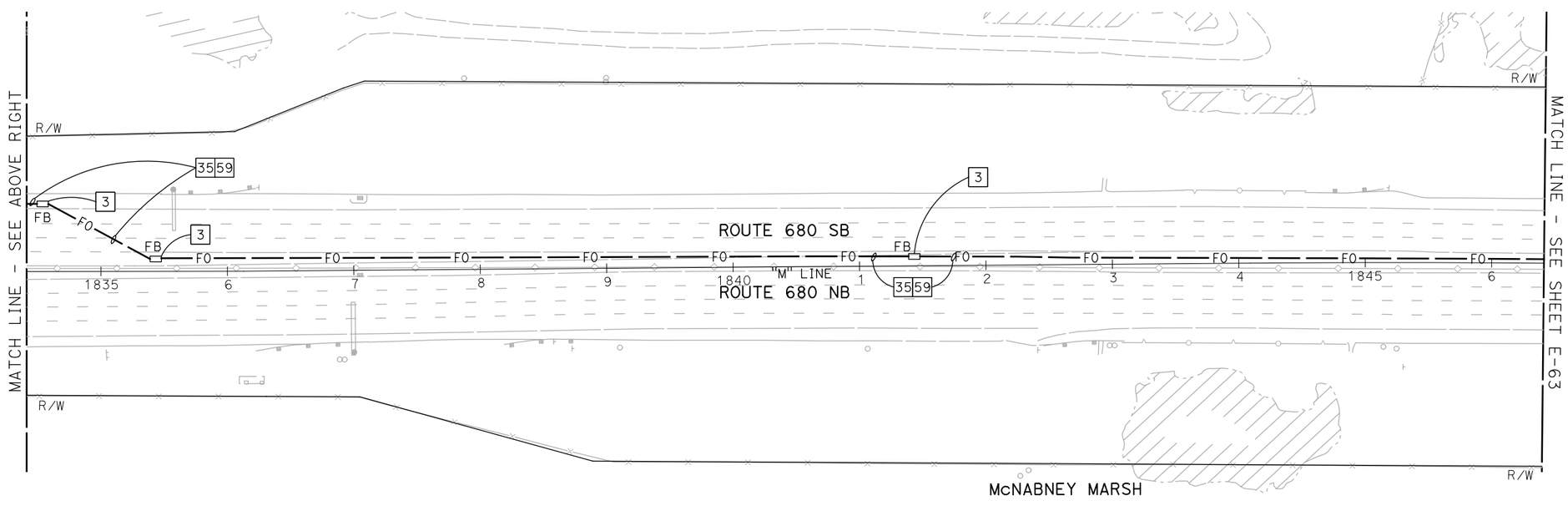

BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	130	175

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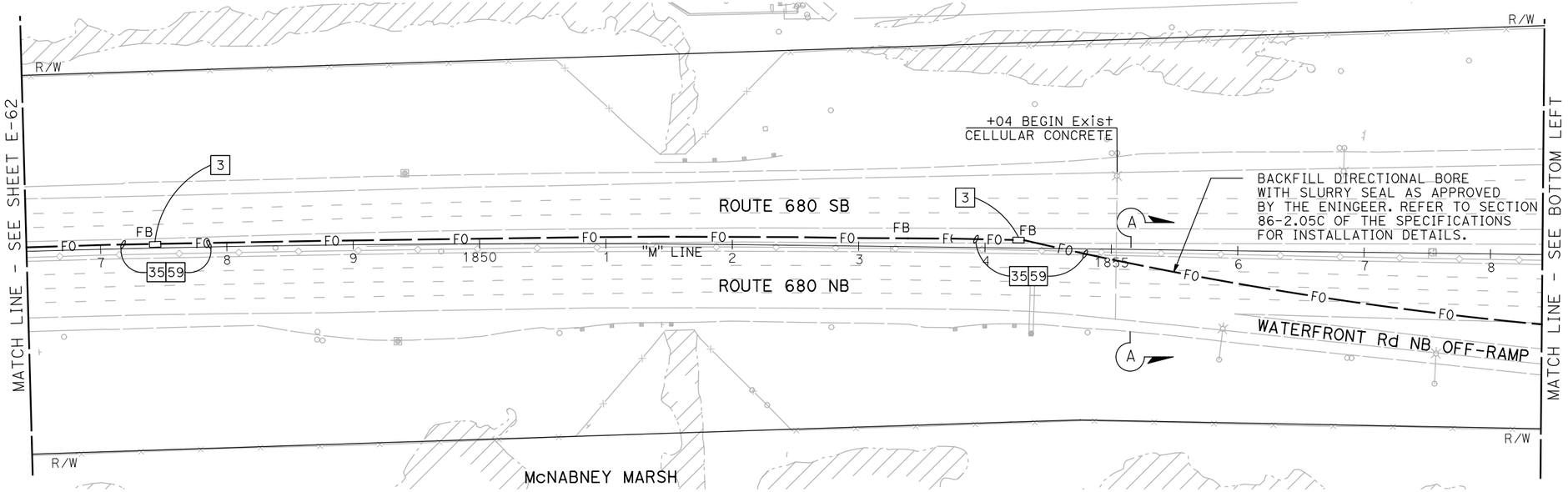
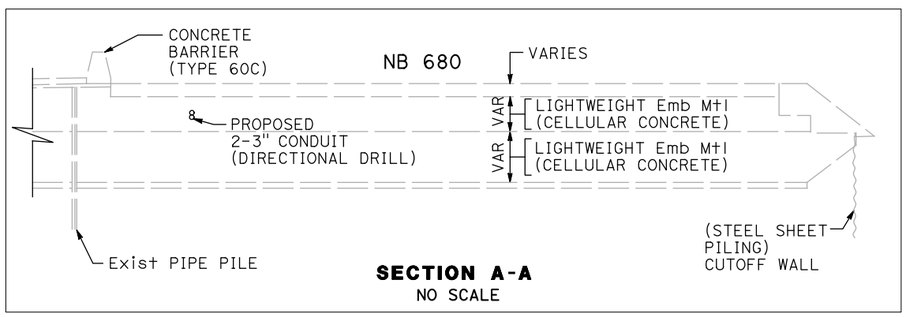
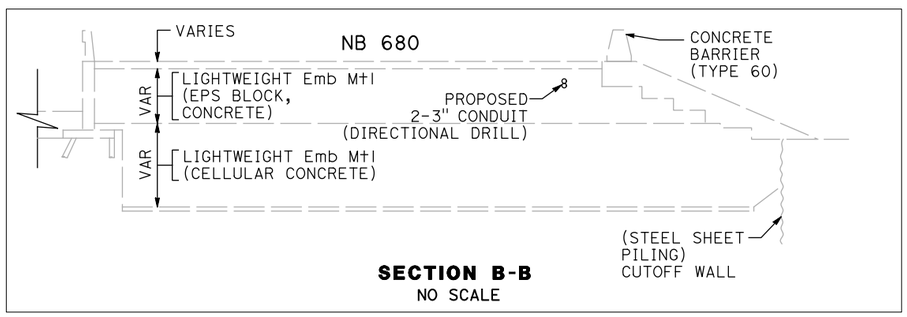
OAKLAND, CA 94607

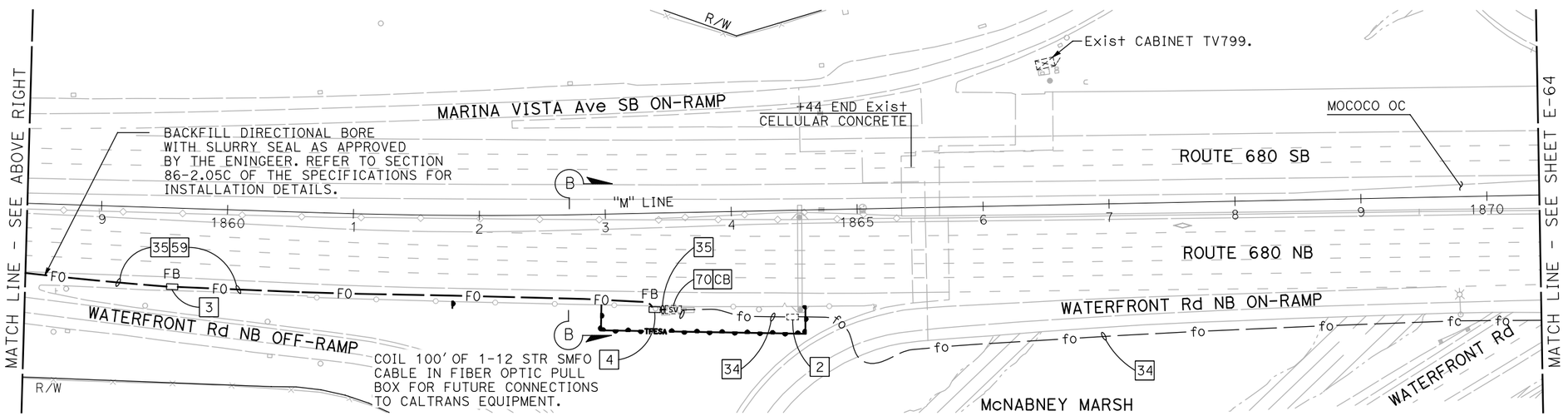




SECTION A-A
NO SCALE



SECTION B-B
NO SCALE



BACKHAUL COMMUNICATIONS SYSTEM
(ROUTE 680 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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E-63

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CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | KAI CHAN

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	131	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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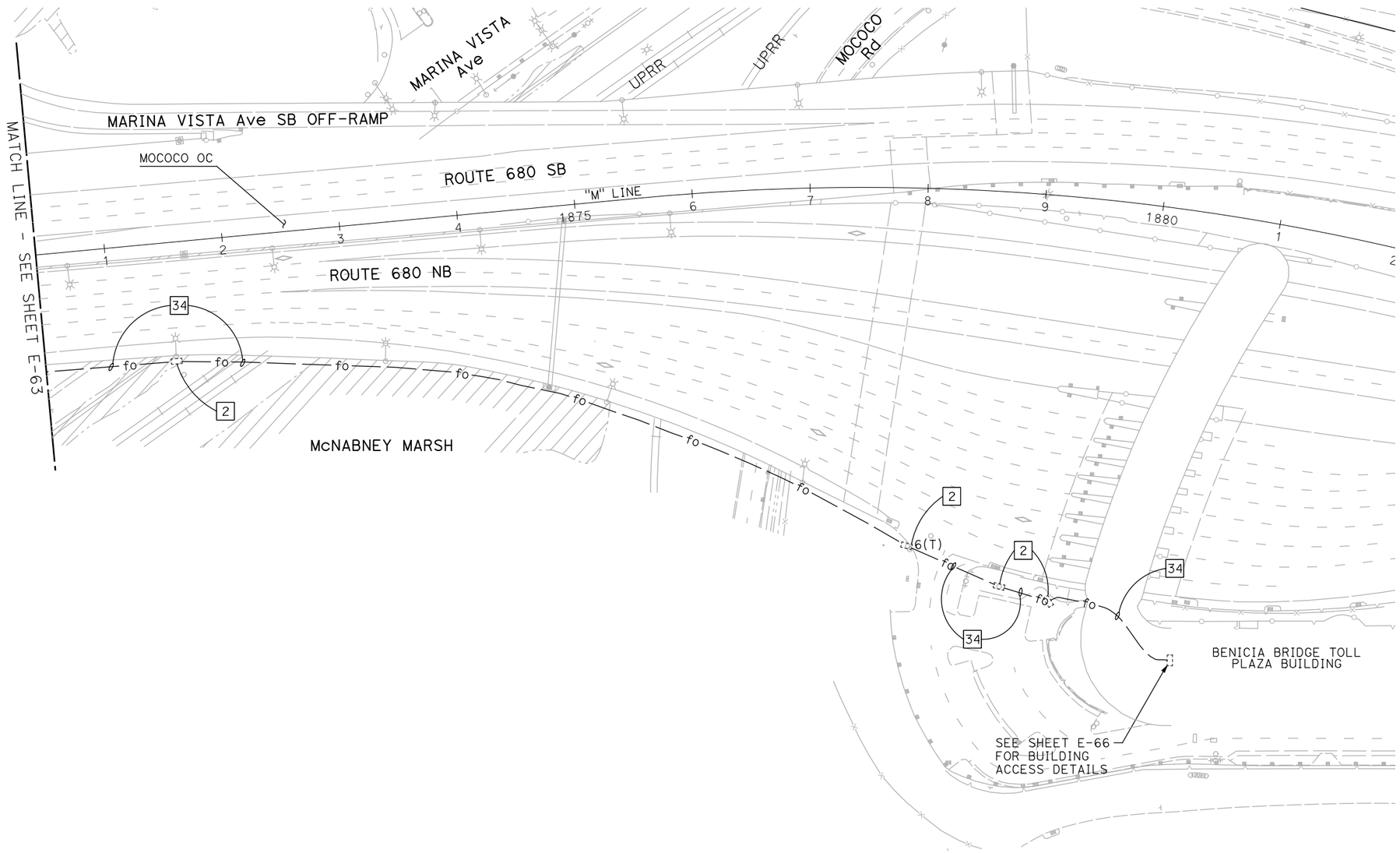
101 EIGHTH STREET
OAKLAND, CA 94607



NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(BENICIA TOLL PLAZA)

SCALE: 1" = 50'

E-64

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/22/2015 TIME PLOTTED => 6:18:06 PM

BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 DGN FILE => 0414000490ua064.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	132	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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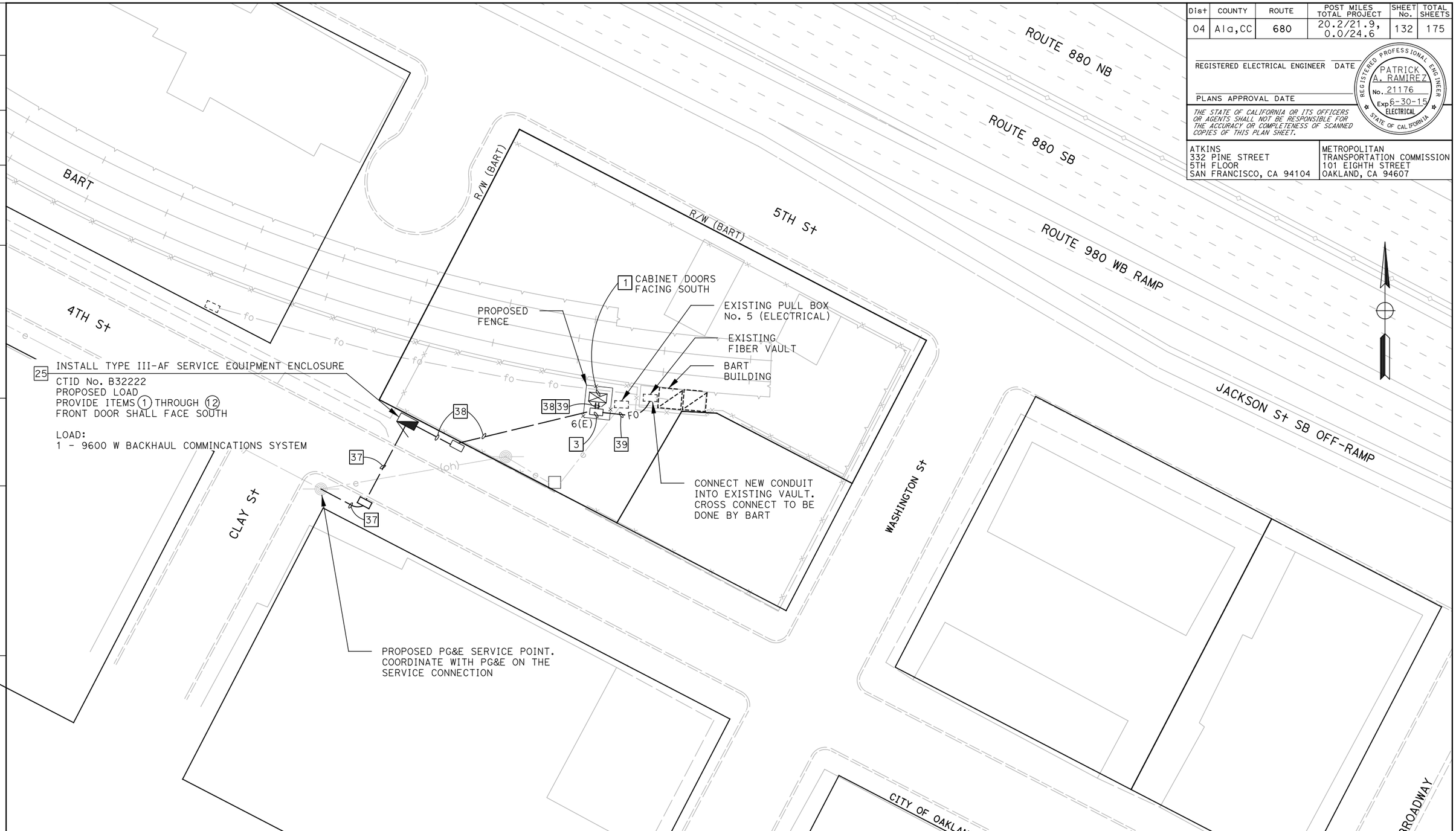
101 EIGHTH STREET
OAKLAND, CA 94607



NOTE:

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

BACKHAUL COMMUNICATIONS SYSTEM
(BAIFA OAKLAND HUB)

NO SCALE

E-65

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 | DGN FILE => 0414000490ua065.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	133	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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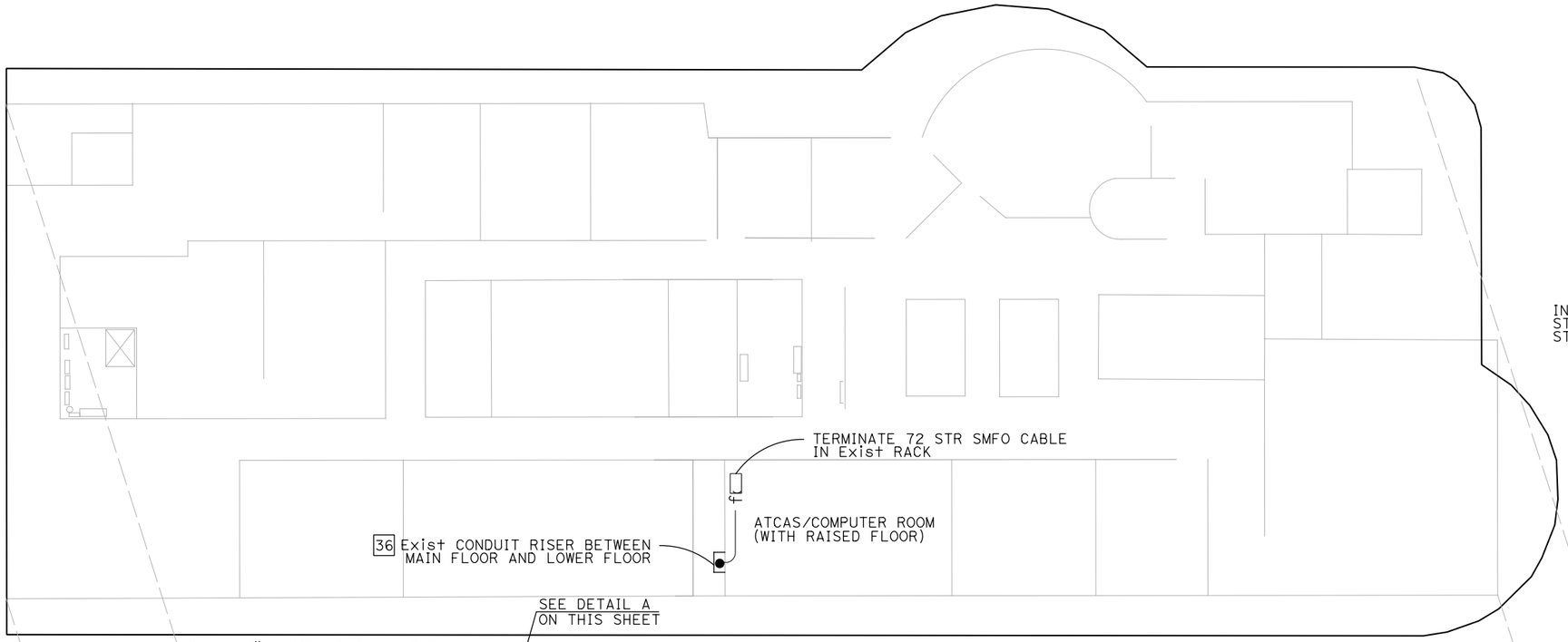
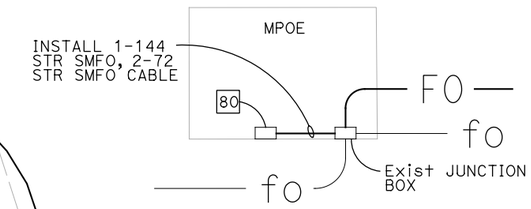
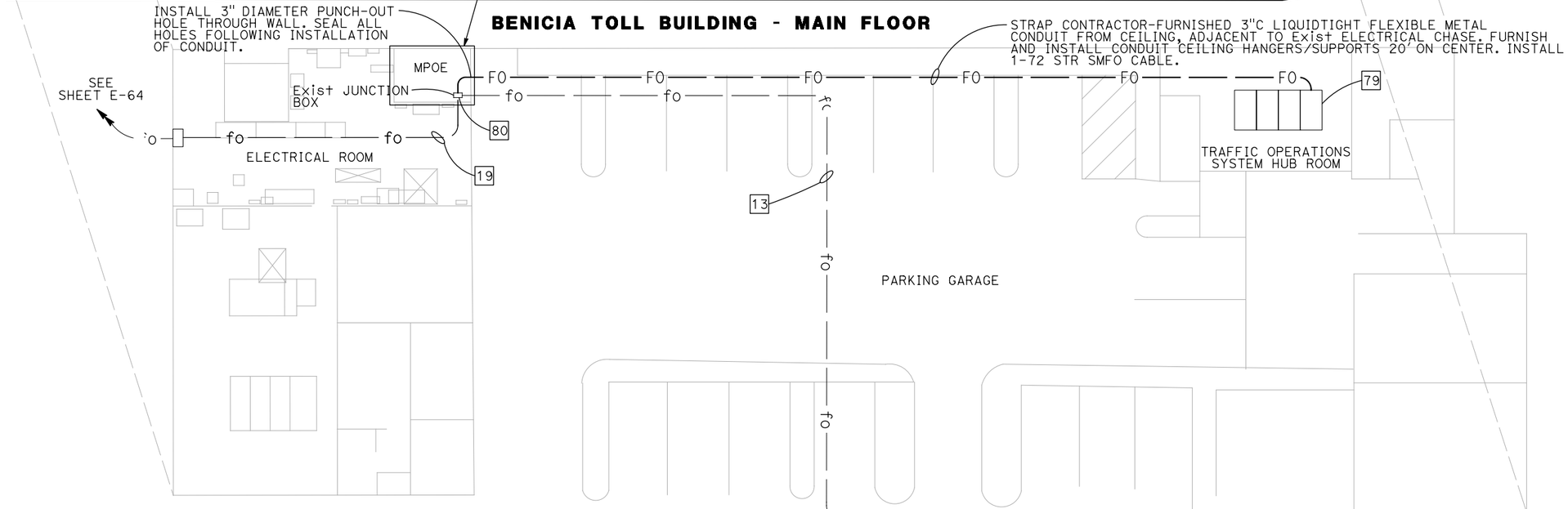
101 EIGHTH STREET
OAKLAND, CA 94607



BENICIA TOLL BUILDING - MAIN FLOOR



DETAIL A
SCALE: NONE



BENICIA TOLL BUILDING - LOWER FLOOR

BACKHAUL COMMUNICATIONS SYSTEMS
(BENICIA TOLL PLAZA)

NO SCALE

E-66

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 | DGN FILE => 0414000490ua066.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	134	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp. 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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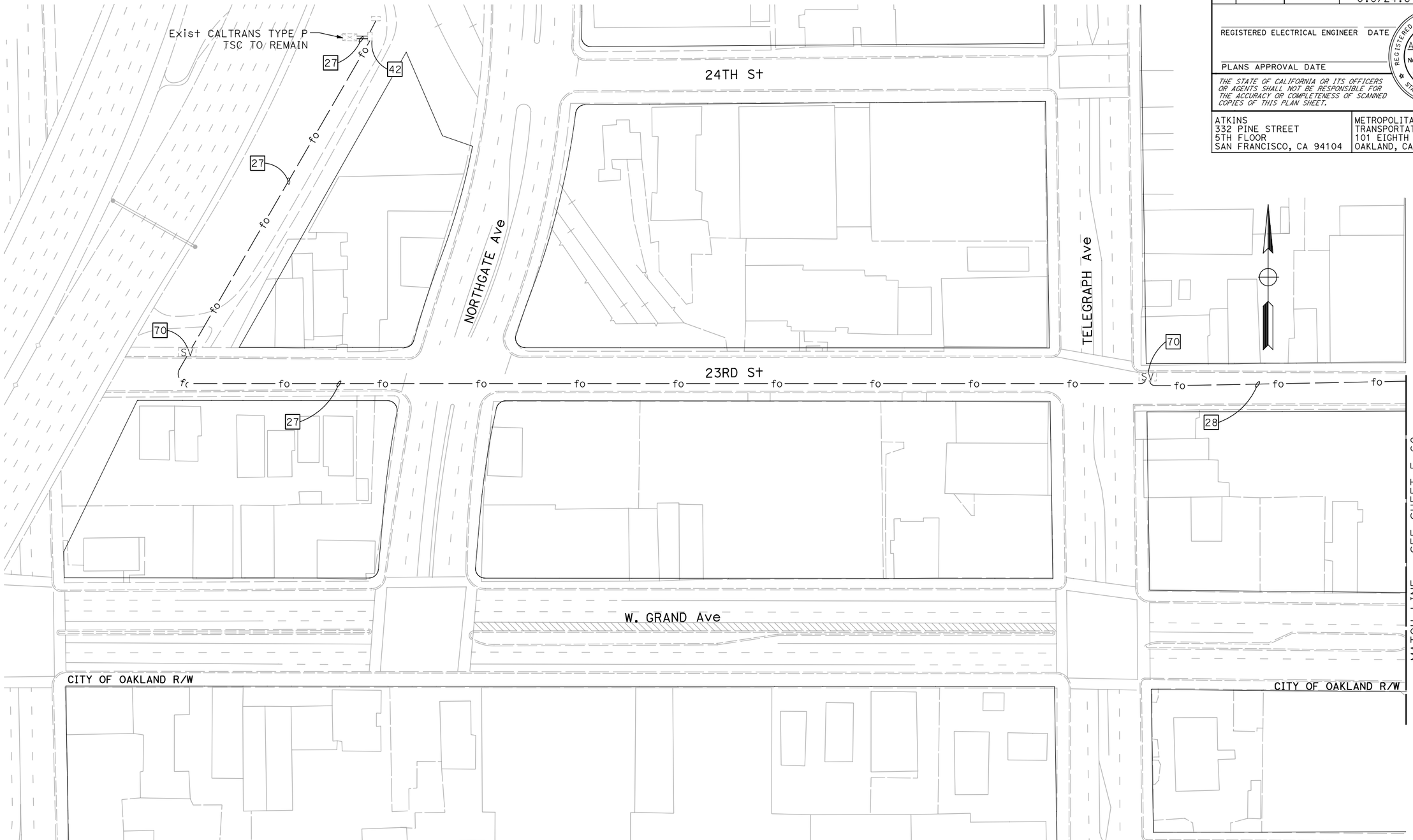
OAKLAND, CA 94607



NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(CALTRANS TMC)

SCALE 1" = 50'

E-67

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	135	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp. 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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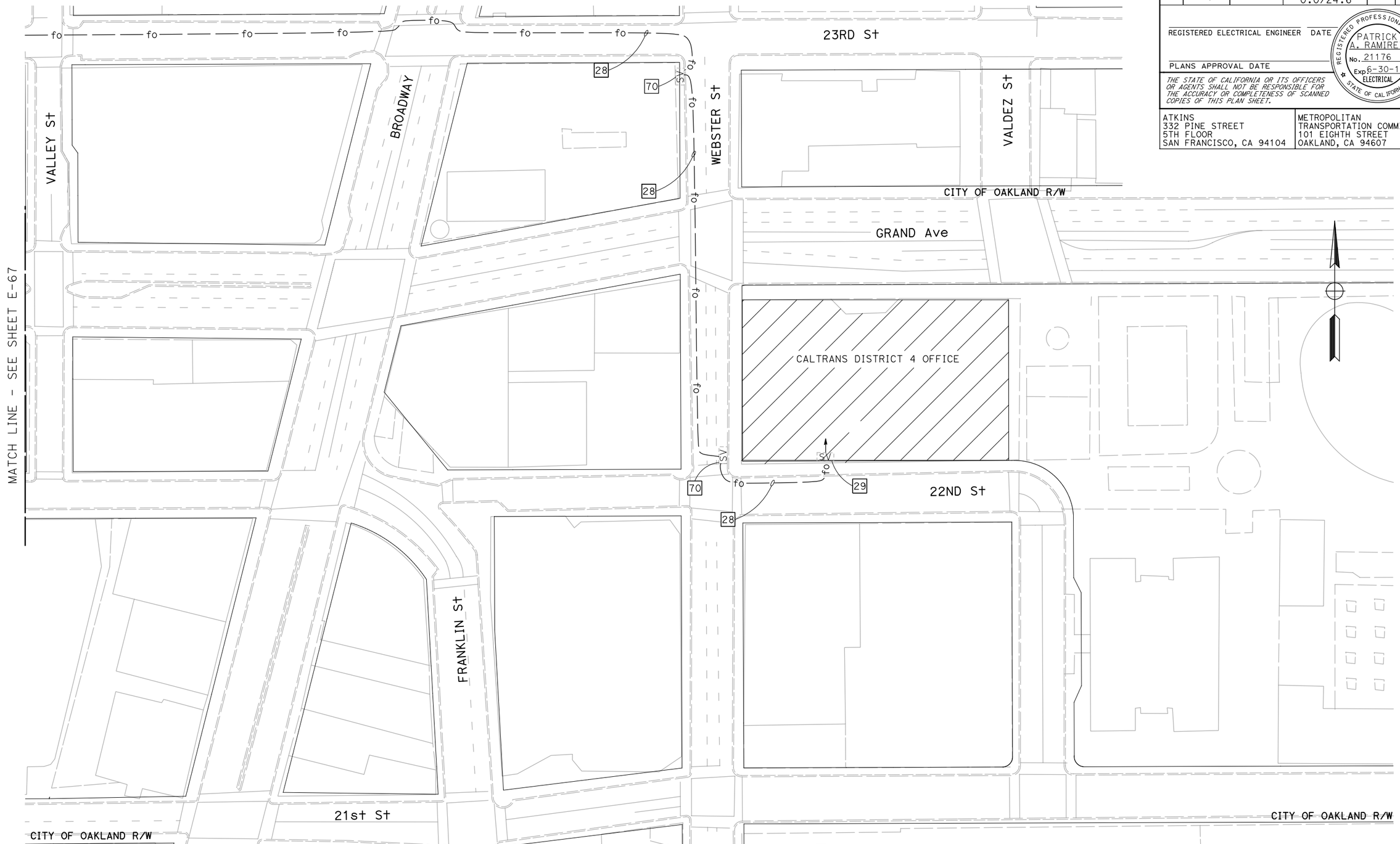
OAKLAND, CA 94607



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BACKHAUL COMMUNICATIONS SYSTEM
(CALTRANS TMC)

SCALE 1" = 50'

E-68

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	136	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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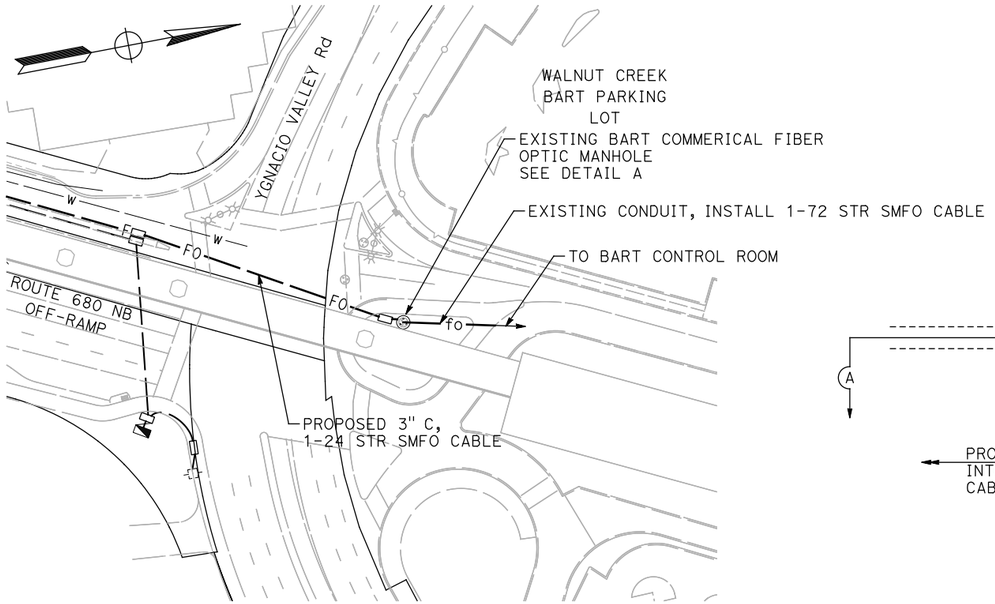
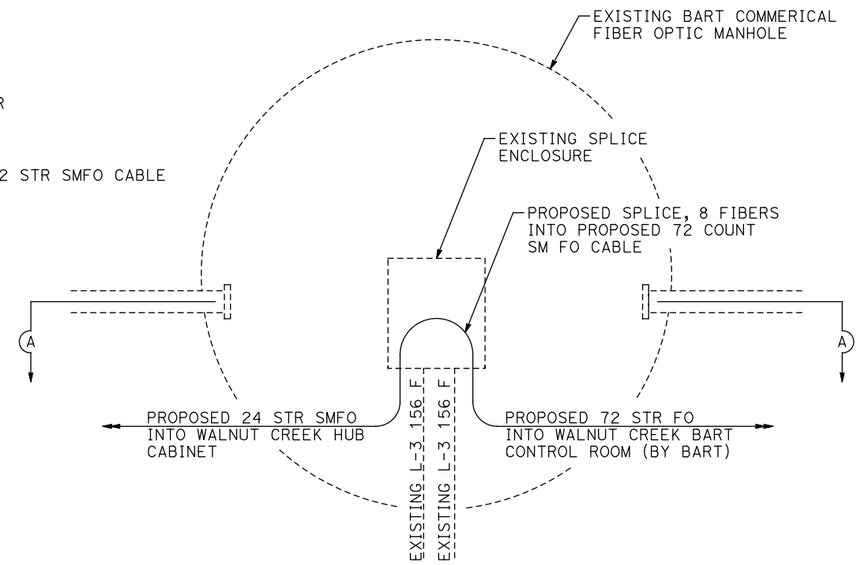
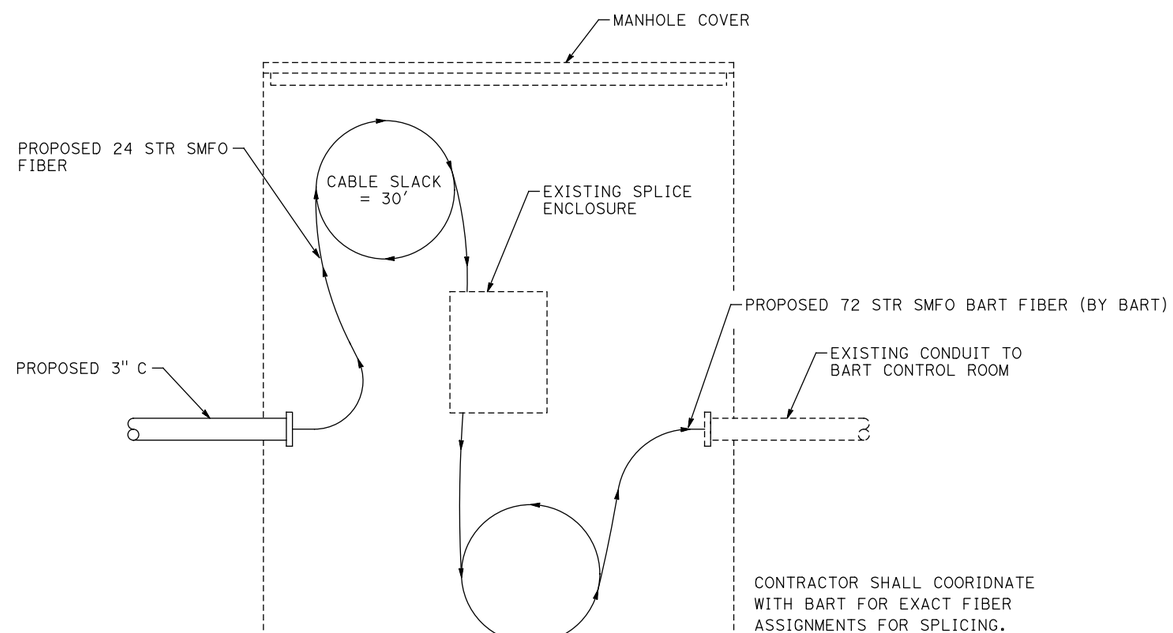
OAKLAND, CA 94607





DETAIL A
FIBER SPLICING DETAIL



SECTION A-A
MANHOLE DETAIL

ELECTRICAL DETAILS
(WALNUT CREEK BART SPLICE VAULT)
NO SCALE

NOTE:

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

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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E-69

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	137	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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METROPOLITAN
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101 EIGHTH STREET
OAKLAND, CA 94607

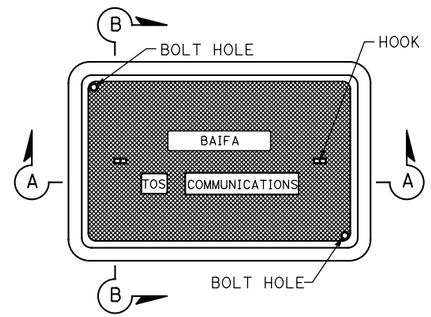
NOTES: (THIS SHEET ONLY)

1. CONCRETE SHOULD BE PLACED AROUND AND UNDER PULL BOXES (6" MINIMUM) AND SHOULD CONTAIN A MINIMUM OF 550 lbs OF PORTLAND CEMENT PER CUBIC YARD.
2. PORTLAND CEMENT CONCRETE FLOOR OVER CLEAN CRUSHED ROCK SUMP. BOTTOM OF PULL BOX SHALL BE SLOPED TOWARD DRAIN PIPE FOR DRAINAGE AND SHALL HAVE SMOOTH FINISH.
3. PULL BOX SHALL BE PRECAST OF STEEL REINFORCED PORTLAND CEMENT CONCRETE. PULL BOX COVER SHALL BE POLYMER CONCRETE. PULL BOX AND COVER SHALL SUPPORT MINIMUM TEST LOAD OF 25,000 lbs IF BOX IS LOCATED IN PAVED AREAS, PULL BOX AND COVER SHALL CONFORM VERTICAL PROOF-LOAD STRENGTH REQUIREMENT AS PER CALTRANS STANDARD SPECIFICATIONS, SECTION 86-2.06.
4. IF APPLICABLE, PULL BOX HEIGHT ABOVE EXISTING DIRT GRADE SHALL PERMIT 1" OF FUTURE SURFACE LANDSCAPING. WHEN PULL BOX IS INSTALLED IN EXISTING SIDEWALK, PULL BOX COVER SHALL SIT FLUSH WITH THE PAVEMENT.
5. LOCKING MECHANISM SHALL BE PROVIDED FOR COVER. TWO 3/8" DIAMETER BRASS OR STAINLESS STEEL STUB BOLTS, NUTS, AND WASHERS. 2 PER BOX, RECESS IN COVER FOR NUT.
6. "BAIFA TOS COMMUNICATIONS" SHALL BE CASTED ON THE TOP FACE OF ALL NEW PULL BOX COVERS OF NEW FO PULL BOXES.
7. MINIMUM PULL BOX DEPTH WITH EXTENSION SHALL BE 24".
8. SEE PLAN SHEETS FOR NUMBER AND SIZE OF CONDUIT.
9. ALL CONDUITS SHALL ENTER THROUGH KNOCKOUTS. IF MORE THAN 3 CONDUITS ARE REQUIRED IN SAME KNOCKOUT, KNOCKOUT SHALL BE WIDENED TO 3/8" MORE THAN THE COMBINED CONDUIT WIDTH.
10. CONDUIT FROM THE TYPICAL BORE OR TRENCH SECTION SHOULD NOT DEFLECT BY MORE THAN 1 5/32 PER 10" FROM THE ALIGNMENT PRECEDING OR THE FOLLOWING THE PULL BOX.
11. BOTTOM OF CONDUIT CENTERLINE SHALL BE ALIGNED TO EXIT TOP OF PULL BOX TO FACILITATE CABLE PULLING. IF EXISTING CONDUIT USED, CONTRACTOR SHALL MODIFY CONDUIT SWEEP (IF NEEDED) AS SHOWN. IF NEW CONDUIT USED, CONTRACTOR SHALL INSTALL CONDUIT ELBOW AS SHOWN.
12. EXCESS CONDUIT FOR ALL CONDUIT ENDS SHALL BE CUT BACK TO PROVIDE STUB ENDS OF 1" MINIMUM TO 2" MAXIMUM.
13. ALL METALLIC CONDUIT SHALL HAVE THREADED METALLIC BUSHINGS. ALL PVC AND HDPE CONDUITS SHALL HAVE BELL ENDS.
14. INSTALL CAPS OR DUCT PLUGS FOR ALL CONDUITS.
15. ALL CONDUITS AND PULL BOXES CONTAINING FIBER OPTIC CABLE SHALL HAVE PERMANENT MARKERS AS SHOWN ON DRAWING SHEET E-74.

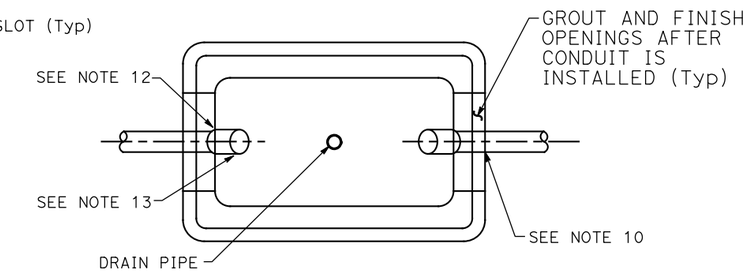
NOTES: (THIS SHEET ONLY)

(1) 45 DEGREE ELBOW, 3'RADIUS Min ELBOW AND COUPLING MAY NOT BE NECESSARY FOR NEW CONDUIT INSTALLED BY DIRECTIONAL BORING. NEW CONDUIT INSTALLED BY DIRECTIONAL BORING SHALL ENTER THE PULL BOX WITH BENDING RADIUS OF 3'MIN.

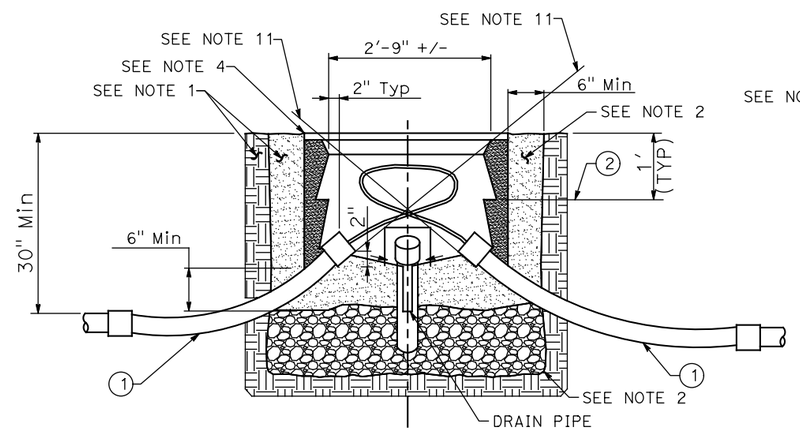
(2) WARNING TAPE (FOR NEW CONDUIT IF INSTALLED BY TRENCHING).



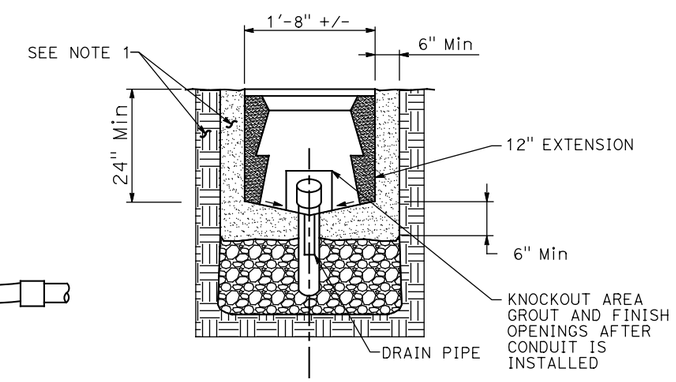
PLAN VIEW



PLAN VIEW WITHOUT COVER



SECTION A-A



SECTION B-B

ELECTRICAL DETAILS
(FIBER OPTIC PULL BOX)

NO SCALE

E-70

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI
CALCULATED-DESIGNED BY	CHECKED BY
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04	Ala,CC	680	20.2/21.9, 0.0/24.6	138	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

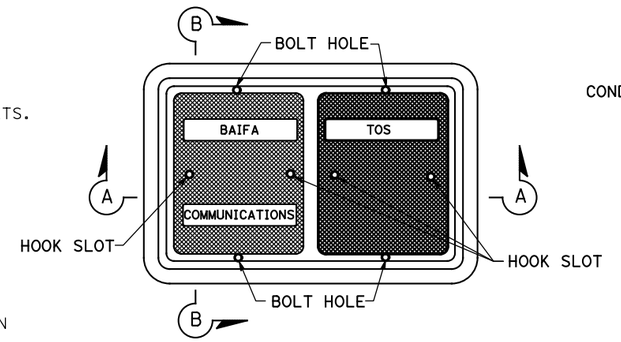
METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607

NOTES: (THIS SHEET ONLY)

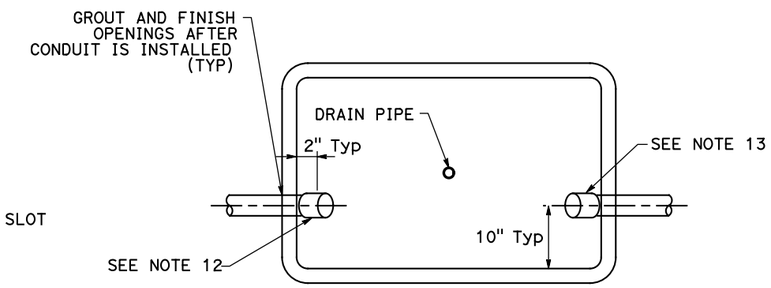
1. BACKFILL ACCORDING TO CALTRANS STANDARD SPECIFICATION, SECTION 19, CONCRETE SHOULD BE PLACED AROUND AND UNDER VAULT (6" MINIMUM) AND SHOULD CONTAIN A MINIMUM OF 550 lbs OF PORTLAND CEMENT PER CUBIC YARD.
2. PORTLAND CEMENT CONCRETE FLOOR OVER CLEAN CRUSHED ROCK SUMP AS PER CALTRANS STANDARD DETAIL ES-8 BOTTOM OF VAULT SHALL BE SLOPED TOWARD THE DRAIN PIPE AND SHALL HAVE A SMOOTH FINISH.
3. MINIMUM VAULT DEPTH SHALL BE 24". IF NECESSARY, AN EXTENSION MAY BE USED TO MEET THE REQUIREMENT.
4. VAULT, VAULT EXTENSION AND VAULT COVER SHALL BE QUAZITE OR APPROVED EQUIVALENT, AND SUPPORT MINIMUM TEST LOAD OF 25,000 lbs. IF VAULT IS LOCATED IN PAVEMENT, VAULT AND COVER SHALL CONFORM VERTICAL PROOF LOAD STRENGTH REQUIRED AS PER CALTRANS STANDARD SPECIFICATIONS, SECTION 86-2.06.
5. LOCKING MECHANISM SHALL BE PROVIDED FOR COVER. TWO 3/8" DIAMETER BRASS OR STAINLESS STEEL STUD BOLTS, NUTS, AND WASHERS, 4 PER BOX. RECESS IN COVER FOR NUT.
6. "BAIFA TOS COMMUNICATIONS" SHALL BE CASTED ON THE TOP FACE OF ALL COVERS OF ALL NEW FO VAULTS.
7. IF APPLICABLE, VAULT HEIGHT ABOVE EXISTING DIRT GRADE SHALL PERMIT 1" OF FUTURE SURFACE LANDSCAPING, WHEN VAULT IS INSTALLED IN EXISTING SIDEWALK, VAULT COVER SHALL SIT FLUSH WITH THE PAVEMENT.
8. SEE PLAN SHEETS FOR NUMBER AND SIZE OF CONDUIT.
9. ALL CONDUITS SHALL ENTER THROUGH KNOCKOUTS. IF MORE THAN 3 CONDUITS ARE REQUIRED IN SAME KNOCKOUT, KNOCKOUT SHALL BE WIDENED TO 3/8" MORE THAN COMBINED CONDUIT WIDTH.
10. TRUNK LINE CONDUITS FROM THE TYPICAL BORE OR TRENCH SECTION SHOULD NOT DEFLECT BY MORE THAN ONE FOOT PER 10 FT FROM THE ALIGNMENT PRECEDING OR FOLLOWING VAULT ENTRANCE/EXIT.
11. BOTTOM OF CONDUIT CENTERLINE SHALL BE ALIGNED TO EXIT TOP OF VAULT TO FACILITATE CABLE PULLING. IF EXISTING CONDUIT USED, CONTRACTOR SHALL MODIFY CONDUIT TO MATCH SWEEP AS SHOWN. CONTRACTOR SHALL INSTALL CONDUIT ELBOW AS SHOWN.
12. EXCESS CONDUIT FOR ALL CONDUIT ENDS SHALL BE CUT BACK TO PROVIDE STUB ENDS OF 1" MINIMUM TO 2" MAXIMUM.
13. ALL METALLIC CONDUITS SHALL HAVE THREADED METALLIC BUSHINGS. ALL PVC AND HDPE CONDUITS SHALL HAVE BELL ENDS.
14. INSTALL CAPS OR DUCT PLUGS FOR ALL CONDUITS.
15. ALL VAULTS SHALL BE FURNISHED WITH TWO RACKS AND HOOKS INSTALLED ON EACH OF THE TWO LONG SIDES.
16. SPLICE ENCLOSURES IN FIBER OPTIC VAULT SHALL BE USED ONLY WHERE SHOWN ON THE PLANS. SPLICE ENCLOSURE SHALL BE ATTACHED TO THE RACK AND HOOK SYSTEM ON THE SAME SIDE AS THE FIBER OPTIC CABLE. THE SPLICE ENCLOSURE SHALL BE ANGLED TO FACILITATE MINIMUM BENDING RADIUS IN THE CABLE.
17. ALL FIBER OPTIC SPLICE VAULTS SHALL HAVE PERMANENT MARKERS AS SHOWN ON SHEET E-87.

LEGEND:

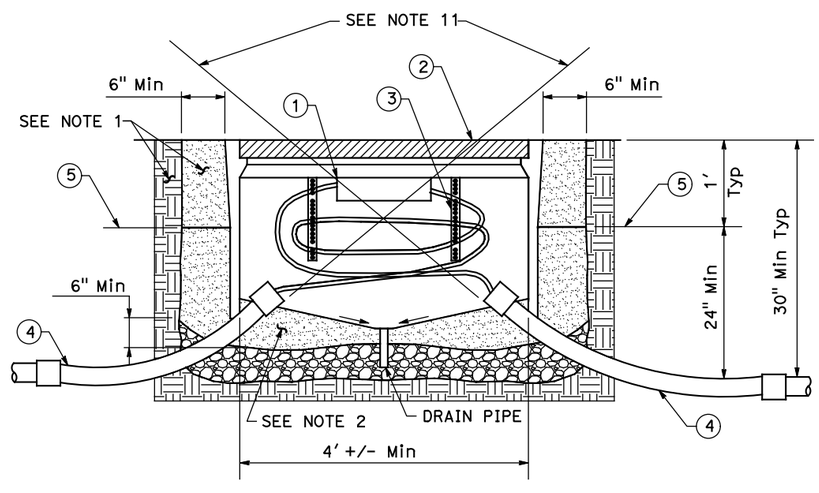
1. FIBER OPTIC SPLICE ENCLOSURE.
2. FIBER OPTIC SPLICE VAULT COVER.
3. RACK & HOOK ASSEMBLY, SEE NOTE 15
4. 45 DEGREE ELBOW, 3' RADIUS MIN. ELBOW AND COUPLING MAY NOT BE NECESSARY FOR CONDUIT INSTALLED BY DIRECTIONAL BORING CONDUIT INSTALLED BY DIRECTIONAL DRILLING SHALL ENTER PULLBOX WITH A BENDING RADIUS OF 3' MINIMUM.
5. WARNING TAPE (FOR NEW CONDUIT INSTALLED BY TRENCHING).



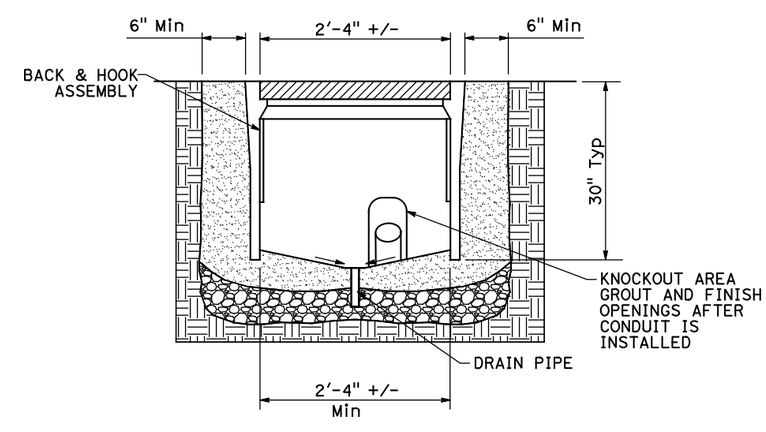
PLAN VIEW



PLAN VIEW WITHOUT COVER



SECTION A-A



SECTION B-B

ELECTRICAL DETAILS
(FIBER OPTIC SPLICE VAULT)

NO SCALE

E-71

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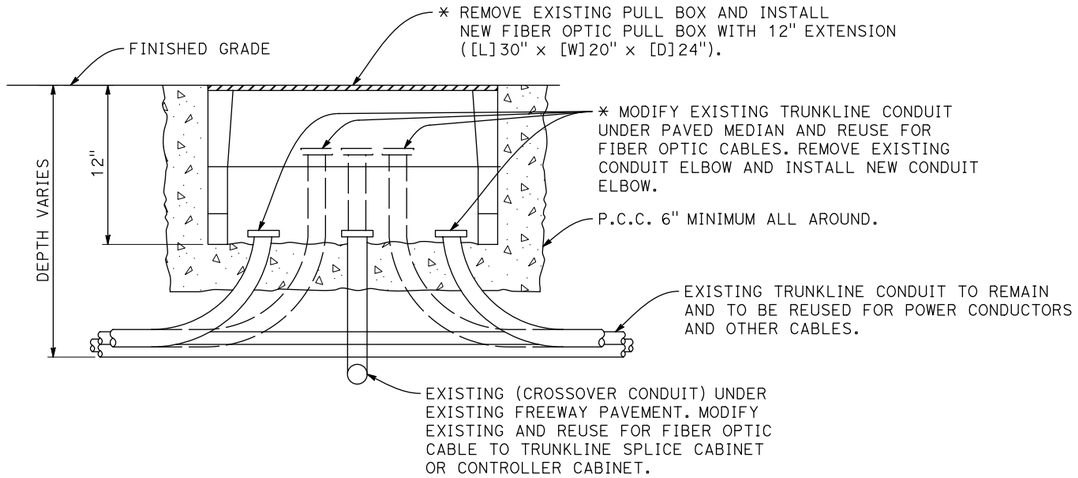
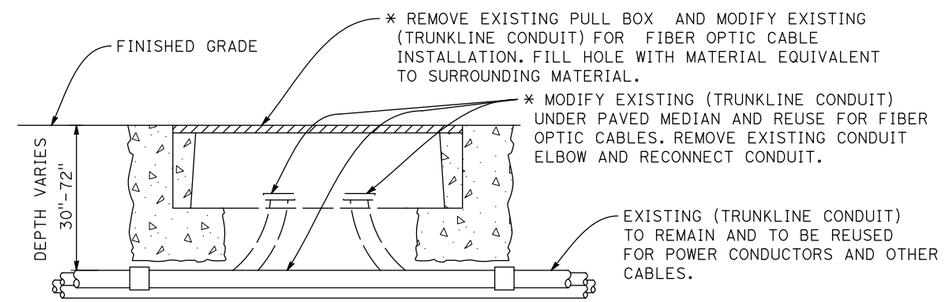


* DO NOT DAMAGE EXISTING TRUNKLINE CONDUIT RUNS. ALL EXISTING TRUNKLINE CONDUIT RUNS WERE INSTALLED IN THE SAME TRENCH UNDER MEDIAN PAVEMENT. MODIFIED CONDUIT SHALL HAVE A MINIMUM CONDUIT BENDING RADIUS OF 20"

DETAIL A

TRUNKLINE TRAFFIC PULL BOX REPLACEMENT
TRUNKLINE AND CROSSOVER CONDUIT MODIFICATION



* DO NOT DAMAGE EXISTING TRUNKLINE CONDUIT RUNS. ALL EXISTING TRUNKLINE CONDUIT RUNS WERE INSTALLED IN THE SAME TRENCH UNDER MEDIAN PAVEMENT.

DETAIL B

TRUNKLINE CONDUIT MODIFICATION
TRUNKLINE PULL BOX REMOVAL

ELECTRICAL DETAILS
(PULL BOX MODIFICATION)

NO SCALE

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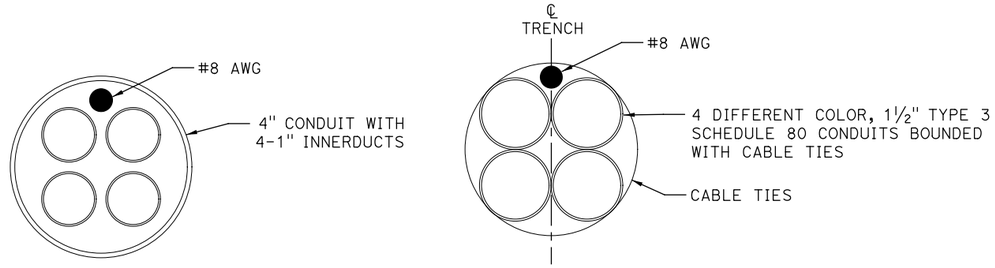
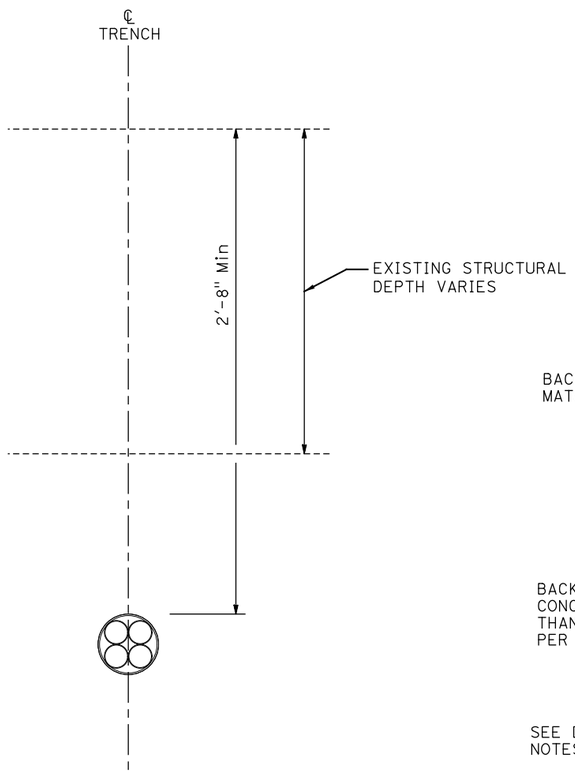
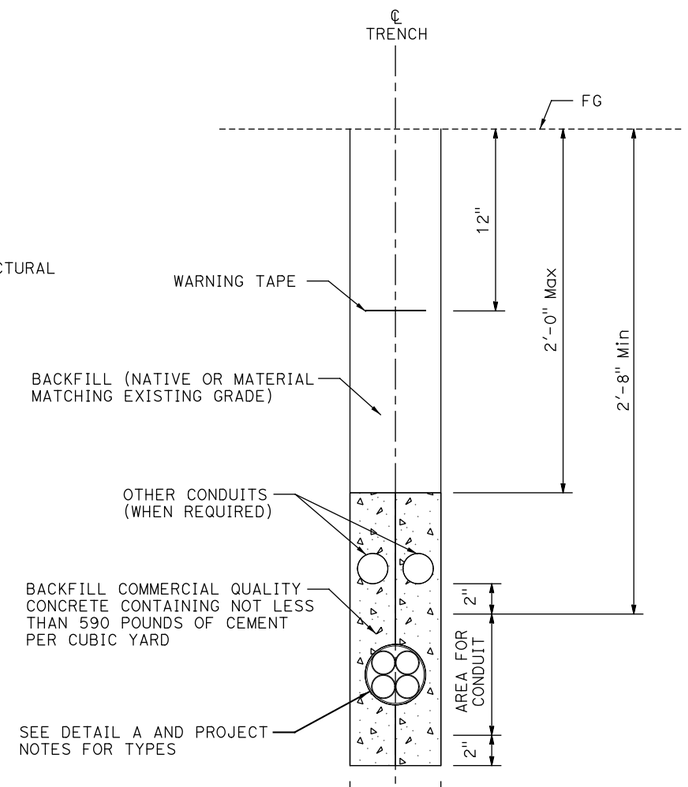


TYPE A **TYPE B**

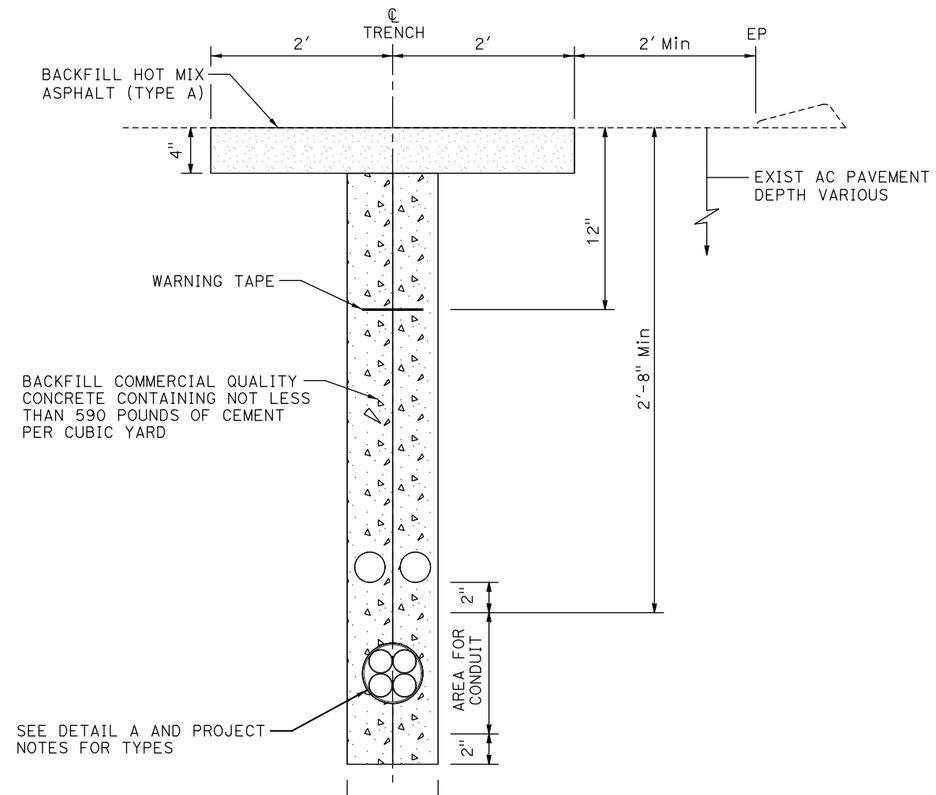
MULTI CONDUIT (Typ)
DETAIL A



UNDER PAVEMENT
(DIRECTIONAL DRILLING)



TRENCH IN DIRT
DETAIL TD



TRENCH IN PAVEMENT
DETAIL TP
(NOT USE ON FREEWAY RAMP, FREEWAY LANE OR
FREEWAY TO FREEWAY CONNECTOR RAMP)

ELECTRICAL DETAILS
(FIBER OPTIC CONDUIT AND TRENCH DETAILS)

NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

E-73

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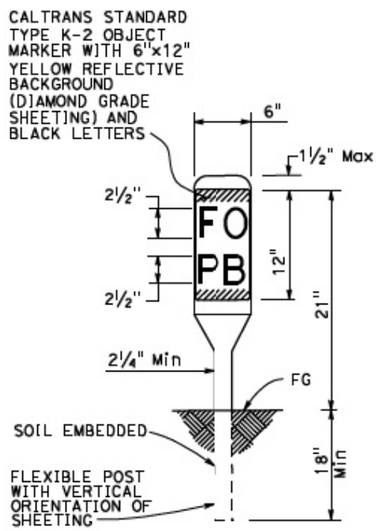
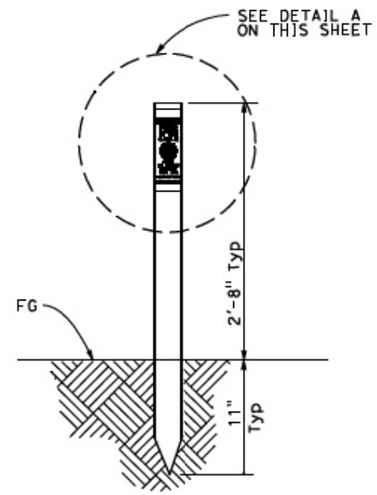


PERMANENT FIBER OPTIC VAULT OR PULL BOX MARKER

NOTE: IN UNPAVED AREAS, INSTALL ONE MARKER 1 FOOT AWAY FROM EACH VAULT OR PULL BOX IN WHICH FIBER OPTIC CABLE IS INSTALLED.

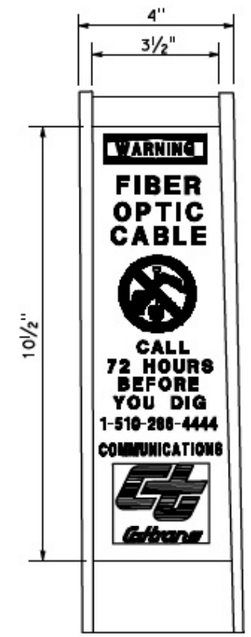
PERMANENT FIBER OPTIC CABLE MARKER

PAVED AREAS



PERMANENT FIBER OPTIC CABLE MARKER

UNPAVED AREAS



DETAIL A

ELECTRICAL DETAILS
(FIBER OPTIC MARKER)

NO SCALE

E-74

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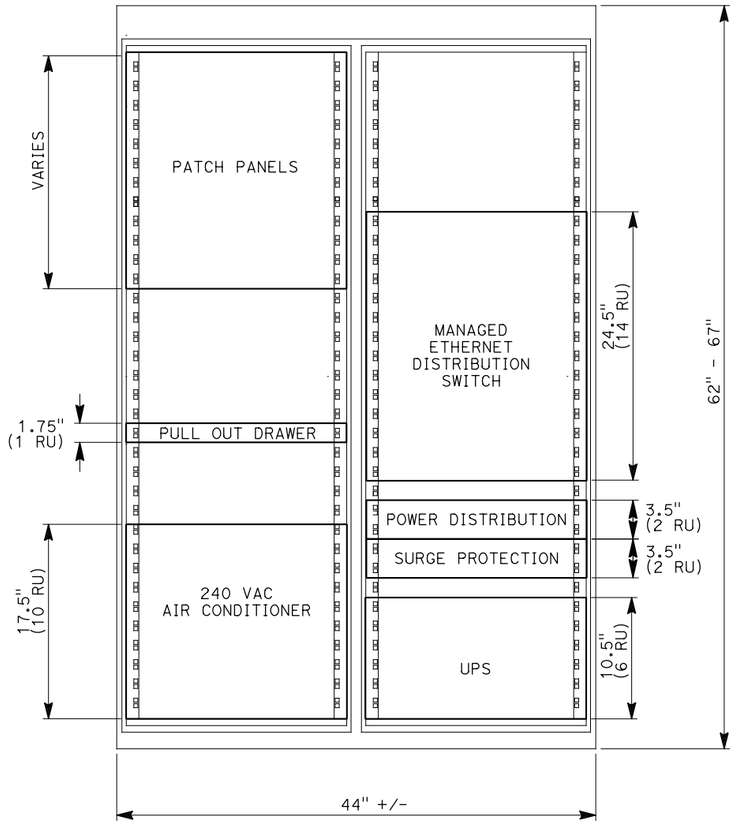
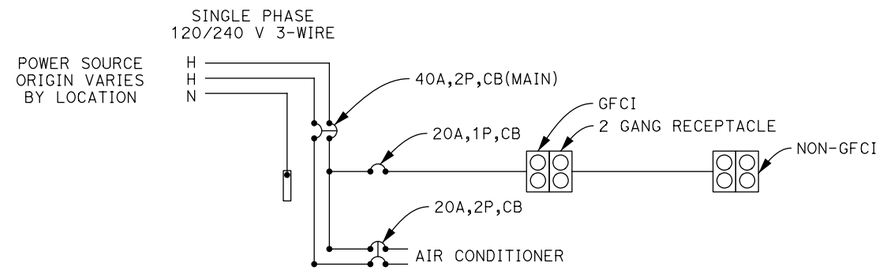
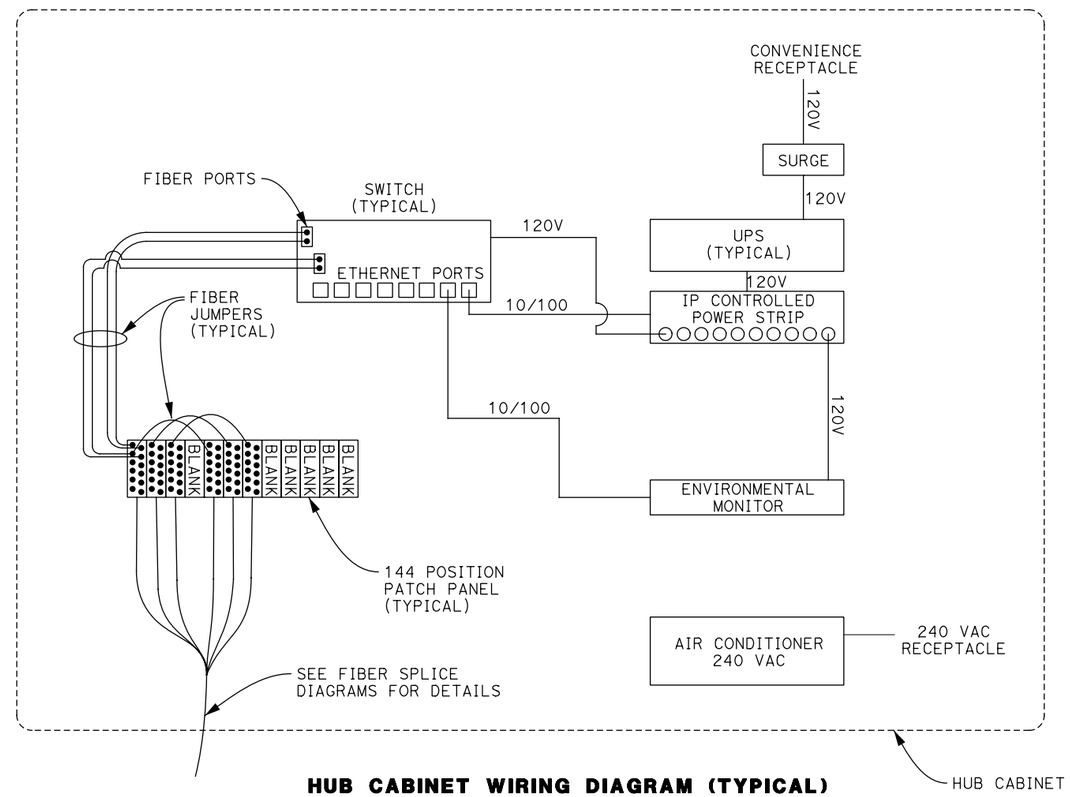


NOTES:

1. ALL DIMENSIONS ARE APPROXIMATE.
2. MINIMUM OF THREE (3) TOTAL OUTLETS: 120 VAC OUTLETS SHALL BE GFCI PROTECTED. AT LEAST ONE SHALL BE NON-GFCI.
3. SURGE PROTECTION PANEL SHALL BE MOUNTED BEHIND THE POWER DISTRIBUTION PANEL.
4. AIR CONDITIONER (OPTIONAL) IS NOT NECESSARY IF EQUIPMENT IS INSTALLED INSIDE EXISTING CLIMATE CONTROLLED FACILITY.
5. INSTALL A/C DRAIN LINE WHEN APPLICABLE.
6. FIBER PATCH PANEL CHASSIS SHALL ACCOMODATE 12 MODULES, EACH CAPABLE OF 12 FIBER TERMINATIONS. SHOWN IS A TYPICAL SITE WITH ONLY 72 CNT FO TERMINATIONS.



120/240V WIRING DIAGRAM (TYPICAL)



HUB CABINET WIRING DIAGRAM (TYPICAL)

ELECTRICAL DETAILS
(HUB CABINET CONTENTS DETAIL)

NO SCALE

E-75

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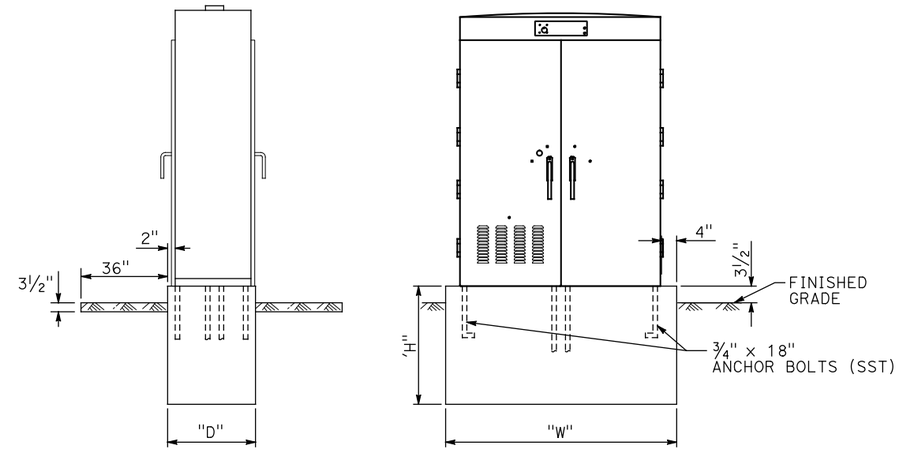
NOTES:

1. CABINET SHALL BE CONSTRUCTED FROM STAINLESS STEEL.
2. CABINET DIMIENSIONS SHOWN ARE NOMINAL.
3. FOUNDATION SHALL BE LOCATED TO PROVIDE 2'-0" MINIMUM CLEARANCE BETWEEN FACE OF CURB AND ANY PORTION OF CABINET.
4. MODEL 333 CABINET SHALL BE INSTALLED WITH THE BACK TOWARD THE NEAREST LANE OF TRAFFIC
5. THE CABINET GROUND BUS SHALL BE BONDED TO THE CONTROLLER EQUIPMENT ENCLOSURE.
6. IN UNPAVED AREAS, A REAISED PORTLAND CEMENT CONCRETE PAD SHALL BE CONSTRUCTED (SEE DETAIL B).
7. IN UNPAVED AREAS, THE TOP OF FOUNDATION FOR MODEL 333 CABINETS SHALL BE 8" MINIMUM ABOVE SURROUNDING GRADE.
8. ANCHOR BOLTS SHALL BE 3/4" X 18" (SST) WITH A 2" - 90° BEND FOUR BOLTS REQUIRED PER CABINET.
9. A 1" DRAIN SHALL BE PROVIDED THROUGH THE FOUNDATION OF THE MODEL 333 CABINET. DRAIN PIPE SHALL BE SCREENED.
10. SEE TABLE FOR CABINET AND FOUNDATION DIMENSIONS; "D" = DEPTH, "H" = HEIGHT AND "W" = WIDTH.
11. CABINET SHALL BE FURNISHED WITH TWO BANKS OF 19" EIA RACKS AND ONE RETRACTABLE LAPTOP SHELF.
12. AN APPROVED MASTIC OR CAULKING COMPOUND SHALL BE PLACED ON THE FOUNDATION PRIOR TO PLACING THE CABINET TO SEAL OPENINGS BETWEEN BOTTOM OF CABINET AND FOUNDATION.
13. PLUG-CONNECTED EQUIPMENT, RACK-MOUNTED EQUIPMENT AND WALL-MOUNTED EQUIPMENT SHALL BE LOCATED TO PERMIT SAFE AND EASY REMOVAL OR REPLACEMENT WITHOUT REMOVING ANY OTHER PIECE OF EQUIPMENT.
14. CABINET FAN MAY BE INSTALLED AT AN ALTERNATE LOCATION NEAR THE TOP OF THE CABINET WHEN APPROVED BY THE ENGINEER.
15. WHERE COMMUNICATION INTERCONNECT IS REQUIRED, A MINIMUM OF 5" CLEAR VERTICAL SPACE SHALL BE PROVIDED INSIDE THE CABINET FOR THE EQUIPMENT.
16. COMMUNICATION INTERCONNECT CONDUCTORS SHALL BE ENCLOSED IN A 2"C OR LARGER RGS CONDUIT THROUGH THE FOUNDATION. TYPE 4 CONDUIT SHALL BE USED TO SEPARATE COMMUNICATION AND POWER CONDUCTORS IN CABINETS AND PEDESTALS.
17. SEE SHEET E-77 FOR HUB CABINET DETAILS.

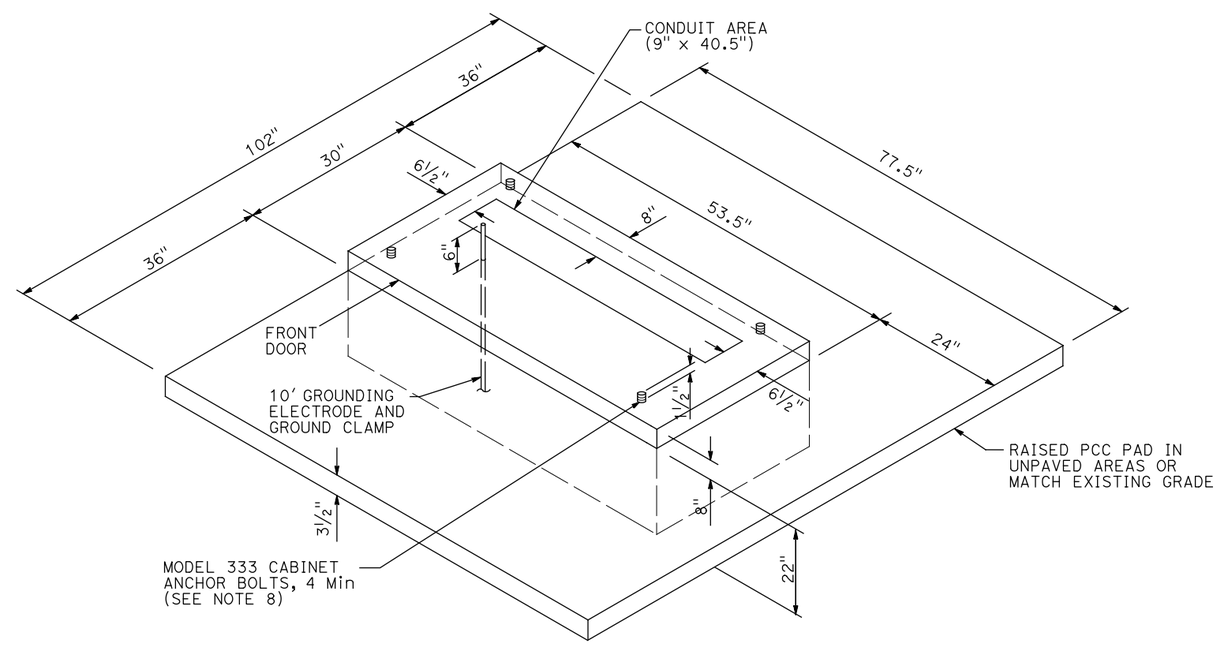


SIDE VIEW FRONT VIEW

FOUNDATION FOR MODEL 333 CABINETS

DETAIL A

CABINET MODEL	FOUNDATION		
	"W"	"H"	"D"
333	53 1/2"	30"	30"



FOUNDATION DETAIL

DETAIL B

ELECTRICAL DETAILS
(HUB CABINET FOUNDATION)

NO SCALE

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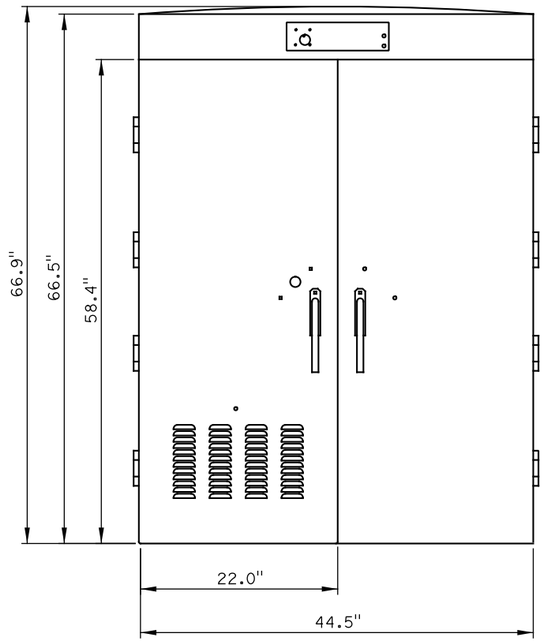
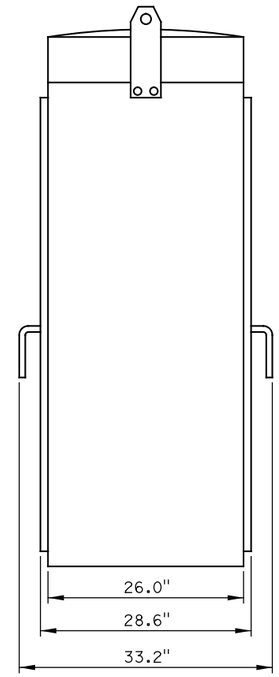
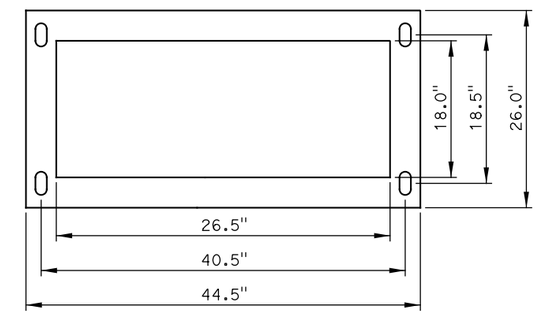


FRONT VIEW
NTS



SIDE VIEW
NTS



BASE VIEW
NTS

HUB CABINET DETAIL (TYPICAL)

NOTES:

1. DIMENSIONS SHOWN ARE TYPICAL FOR AN ITS CABINET WITH (2) 19" EIA RACKS IN A SIDE-BY-SIDE CONFIGURATION. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BY PROJECT ENGINEER BEFORE CABINET PROCUREMENT.
2. STUB OUT SPARE 2" CONDUIT TO 12" BEYOND EDGE OF CABINET FOUNDATION.
3. SEAL SPARE CONDUIT WITH REMOVABLE CAP.
4. TOPS OF CONDUIT SHALL BE NO LESS THAN 2" AND NO MORE THAN 3" ABOVE FOUNDATION.
5. CABINET FOUNDATION CONSTRUCTION SHALL NOT TAKE PLACE PRIOR TO FINAL ACCEPTANCE OF PROPOSED CABINET BY THE PROJECT ENGINEER.
6. SEE SHEET E-76 FOR HUB CABINET FOUNDATION DETAILS.

ELECTRICAL DETAILS
(HUB CABINET DETAIL)
NO SCALE

E-77

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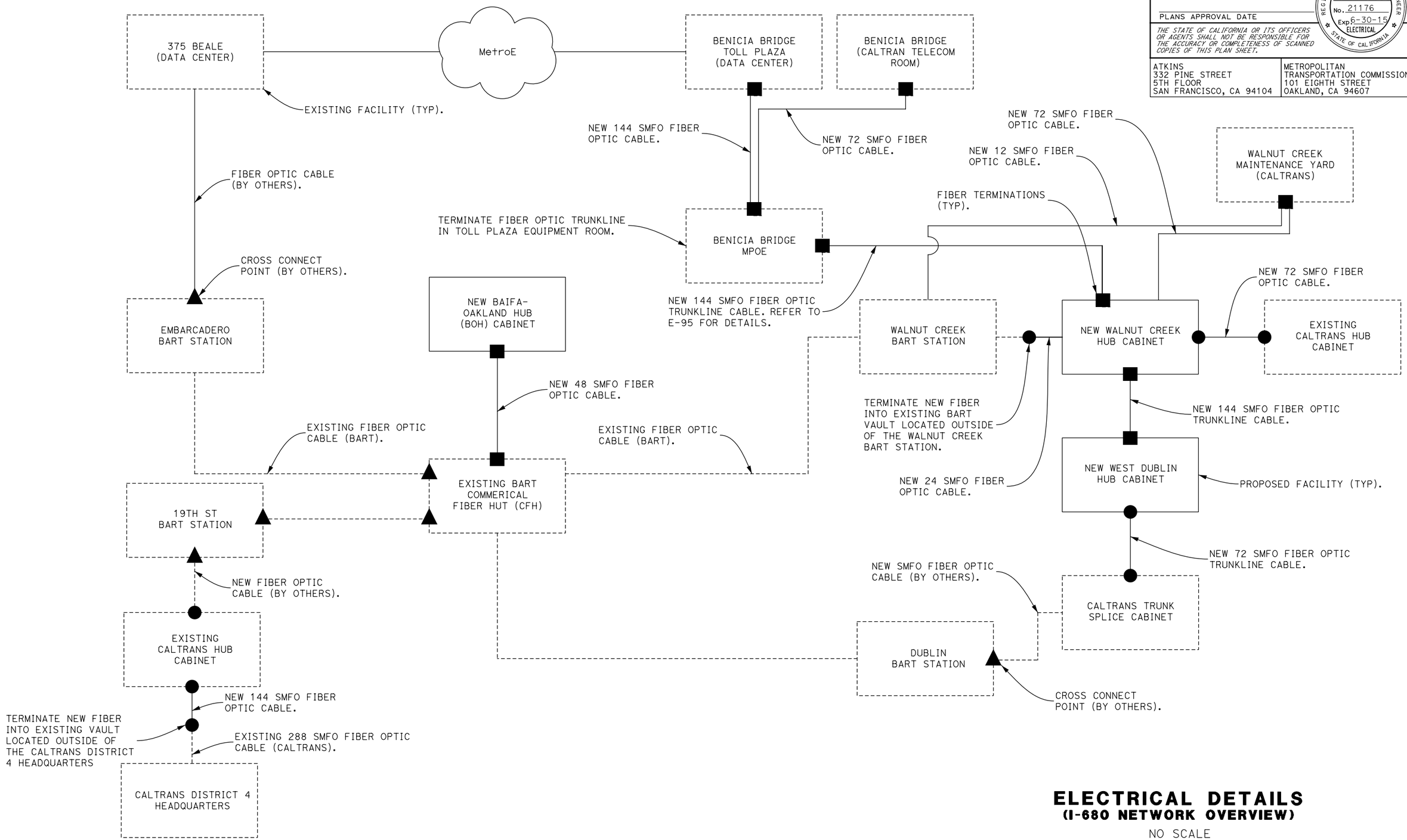

ELECTRICAL DETAILS
(I-680 NETWORK OVERVIEW)

NO SCALE

E-78

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/22/2015 | TIME PLOTTED => 6:24:29 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	146	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp. 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607

NOTES:
1.

BACKHAUL COMMUNICATIONS SYSTEM QUANTITIES

SHEET No.	CONDUIT [N]		SINGLEMODE FIBER OPTIC CABLE [N]						PULL BOXES [N]			FIBER OPTIC SPLICE VAULT [N]	REMOVE EXISTING PULL BOXES [N]	MODIFY CONDUIT IN EXISTING PULL BOX [N]	OBJECT MARKER [N]	FIBER OPTIC SPLICE CLOSURE [N]	FIBER SPLICES AND TERMINATIONS [N]	FIBER OPTIC DISTRIBUTION UNIT [N]					COMMUNICATIONS CABINET (TYPE 333) [N]	ETHERNET ACCESS SWITCH [N]	ETHERNET DISTRIBUTION SWITCH [N]	TYPE III SERVICE EQUIPMENT ENCLOSURE [N]
	2"	3"	6	12	24	48	72	144	#5	#6 (T)	FIBER OPTIC PULL BOX							12 STRAND	24 STRAND	48 STRAND	72 STRAND	144 STRAND				
	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
E-3		90	224		970		90	550	1	1		1				1	240		1			1	1	1	2	
E-4								1,250							2											1
E-5				317				2,716							4	2	48									
E-6				134				3,121							2	1	24									
E-7				154				2,703							3	1	24									
E-8				131				1,547								1	24									
E-9								2,840							2											
E-10				125				3,670							3	1	36									
E-11				95				2,100								1										
E-12				145				2,901			1		1	1	2	2	36									
E-13				170				2,960							4	1	12									
E-14				120				2,551			1		1	1		1	12									
E-15								2,830							2											
E-16				155				2,861			1				2	2	36									
E-17				162				2,876			1			1	2	1	36									
E-18				170				3,080					1	1	3	1	24									
E-19				101				2,569			1		1	1		1	24									
E-20				87				2,486							1	1	24									
E-21				88				2,644			1		1	1		1	24									
E-22								2,850							2		12									
E-23				101				2,559								1	24									
E-24				170				2,940							2		12									
E-25				169				3,012			1					1	24									
E-26				407				2,976			1				2	1	36									
E-27				90				2,890			1		1		2	1	24									
E-28								2,540																		
E-29				98				2,834							2	1	24									
E-30								2,840							2											
E-31				96				2,648			1				2	1	24									
E-32				93				2,595		2	3				2	1	24									
E-33				409				2,720							4	2	24									
E-34				90				2,590							2	1	24									
E-35				584				2,710							6	1	24									
E-36				402				2,960								1	24									
E-37				10				2,780			1		1	1		1	24									
E-38								2,470																		
E-39		52		100				3,750			1		2	2		2	48									
E-40				38				2,760			1		1		1	1	24	1								
E-41	98	74		25	85		35	2,950	2		1	1	1	1	2	2	168	2					1	1	2	
E-42	1,118	1,156				1,156			5		4				5											1
E-43				15				3,090							2											
E-44								4,099			2		4	1	6	2	288				1					
E-45								2,870			10		16	16	10											
E-46				15				3,030			14		20	20	14		24									
E-47		775		60				2,890			10		14	14	11		24	1								
E-48		1,570		1,000				2,690			5	1	3	3	6	1	48	2								
SUB-TOTAL	1,216	3,717	224	6,124	1,055	1,156	125	123,297	8	3	62	3	68	64	117	40	1,572	6	1		1	1	2	2	4	2

[N] NOT A SEPARATE ITEM, FOR INFORMATION ONLY

ELECTRICAL QUANTITIES
(BACKHAUL)

NO SCALE

E-79

REVISED BY | DATE REVISED
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CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
KAI CHAN

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	147	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp. 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607

NOTES:
1.

BACKHAUL COMMUNICATIONS SYSTEM QUANTITIES

SHEET No.	CONDUIT [N]		SINGLEMODE FIBER OPTIC CABLE [N]						PULL BOXES [N]			FIBER OPTIC SPLICE VAULT [N]	REMOVE EXISTING PULL BOXES [N]	MODIFY CONDUIT IN EXISTING PULL BOX [N]	OBJECT MARKER [N]	FIBER OPTIC SPLICE CLOSURE [N]	FIBER SPLICES AND TERMINATIONS [N]	FIBER OPTIC DISTRIBUTION UNIT [N]					COMMUNICATIONS CABINET (TYPE 333) [N]	ETHERNET ACCESS SWITCH [N]	ETHERNET DISTRIBUT ION SWITCH [N]	TYPE III SERVICE EQUIPMENT ENCLOSURE [N]
	2"	3"	6	12	24	48	72	144	#5	#6 (T)	FIBER OPTIC PULL BOX							12 STRAND	24 STRAND	48 STRAND	72 STRAND	144 STRAND				
	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
E-49				179				2,830			9		17	17	10	1	12									
E-50								2,790			8		12	12	8											
E-51		310		416				2,930	1		10		12	12	9	1	48	2								
E-52				292				2,830			9		13	13	9	1	24	1								
E-53								2,760			10		20	20	10											
E-54				484				2,830			11		14	14	10	1	24	1								
E-55								3,140			6	1	14	14	7											
E-56	10	1,373		25				3,060			7		6	6	11	1	24	1								
E-57		3,980						3,990			11	1	4	4	10											
E-58		1,299						2,850			9		10	10	4											
E-59				247				2,900			7		11	11	7	1	24	1								
E-60				20				2,930			8		12	12	8											
E-61		1,571		232				2,930	1		8		10	10	8	1	24	1								
E-62		4,732						2,950			4				4											
E-63		3,349		100				2,930			4															
E-64								1,450									72									
E-65	180	40				40			2		1						96			2			1	1	2	1
E-66								203									144				1	1				
E-67								1,734								1	12									
E-68								1,391								1	80							1	2	
E-69																	240									
SUB-TOTAL	190	16,654		1,994		40		49,427	4		122	2	155	155	115	9	824	7		2	1	1	1	2	4	1
MAXIMUM TRUNK SPLICES																	1,152									
GRAND TOTAL	1,406	20,371	224	8,118	1,055	1,196	125	172,724	12	3	184	5	223	219	232	49	3,548	13	1	2	2	2	3	4	8	3

[N] NOT A SEPARATE ITEM, FOR INFORMATION ONLY

ELECTRICAL QUANTITIES
(BACKHAUL)

NO SCALE

E-80

REVISED BY | DATE REVISED
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KAI CHAN

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	148	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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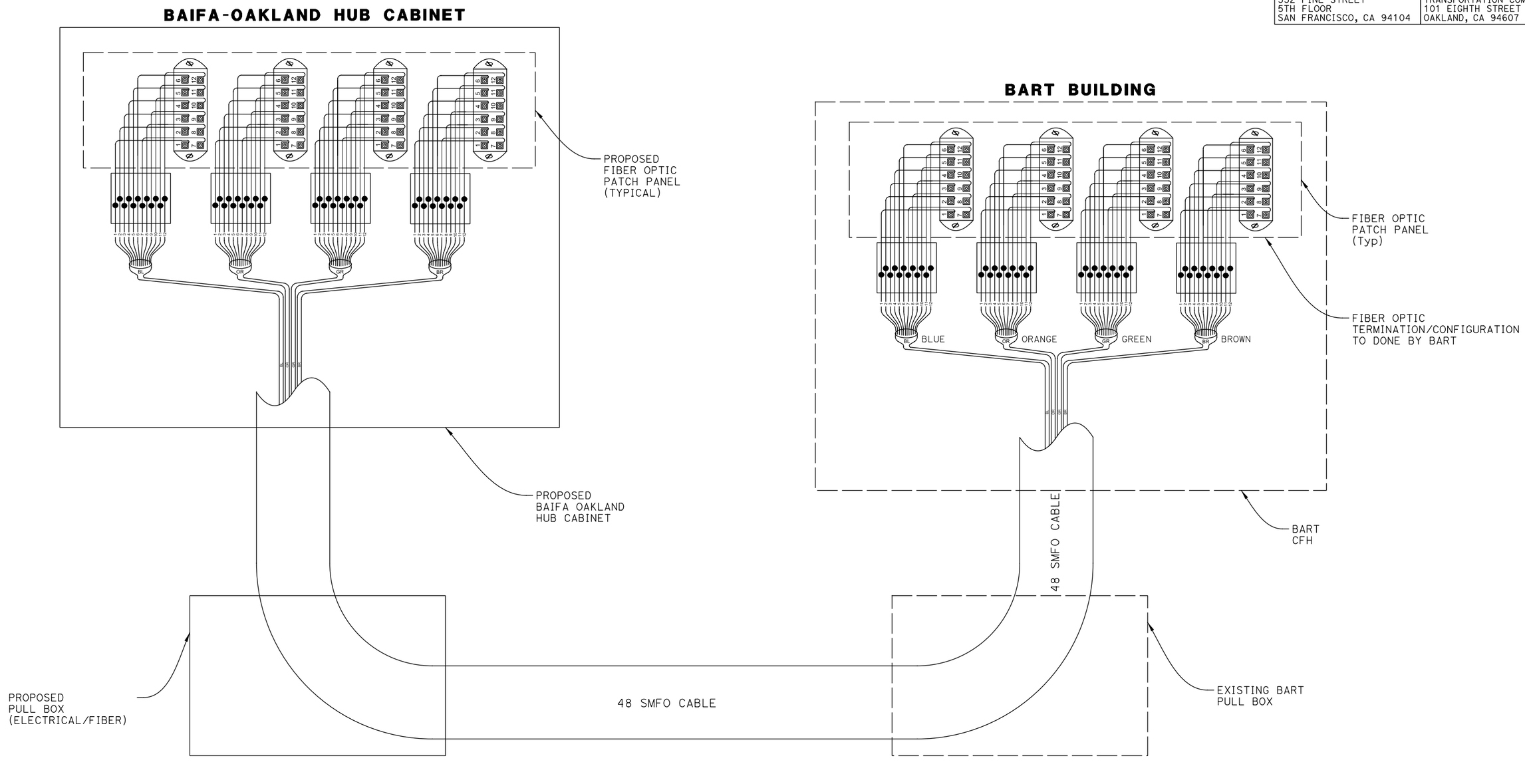
101 EIGHTH STREET
OAKLAND, CA 94607



ELECTRICAL DETAILS
(BAIFA-OAKLAND HUB FIBER OPTIC SPLICE DIAGRAM)

NO SCALE

E-81

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	149	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp. 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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101 EIGHTH STREET
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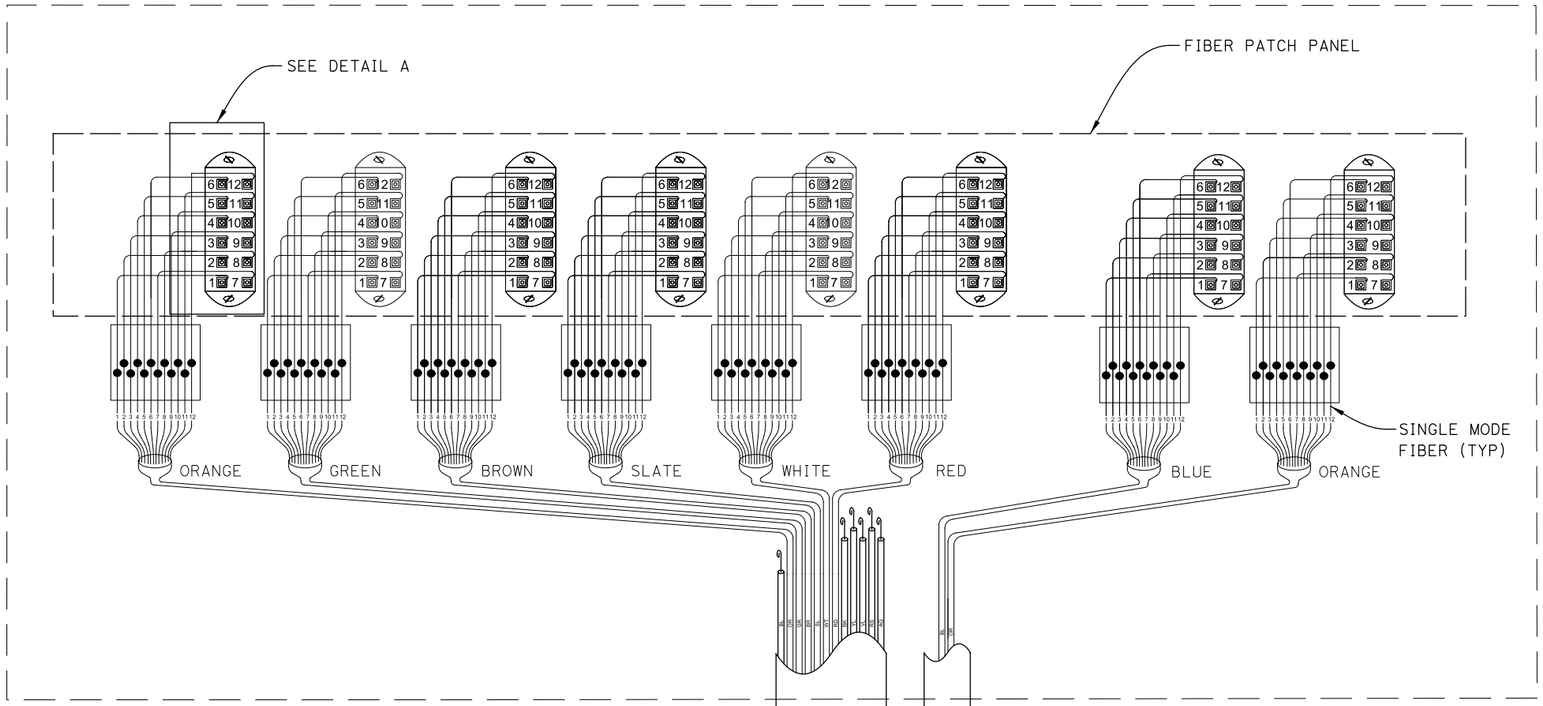
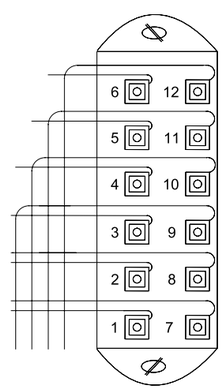
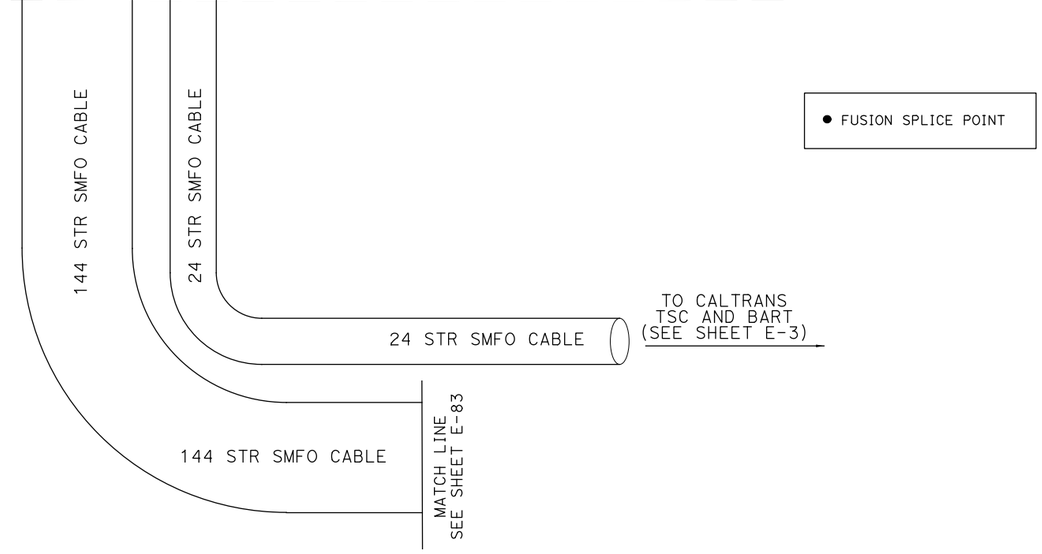
WEST DUBLIN COMMUNICATIONS HUB





DETAIL A
FIBER PATCH PANEL



● FUSION SPLICE POINT

ELECTRICAL DETAILS
(WEST DUBLIN HUB FIBER OPTIC SPLICE DIAGRAM)

NO SCALE

E-82

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 | DGN FILE => 0414000490ua082.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	150	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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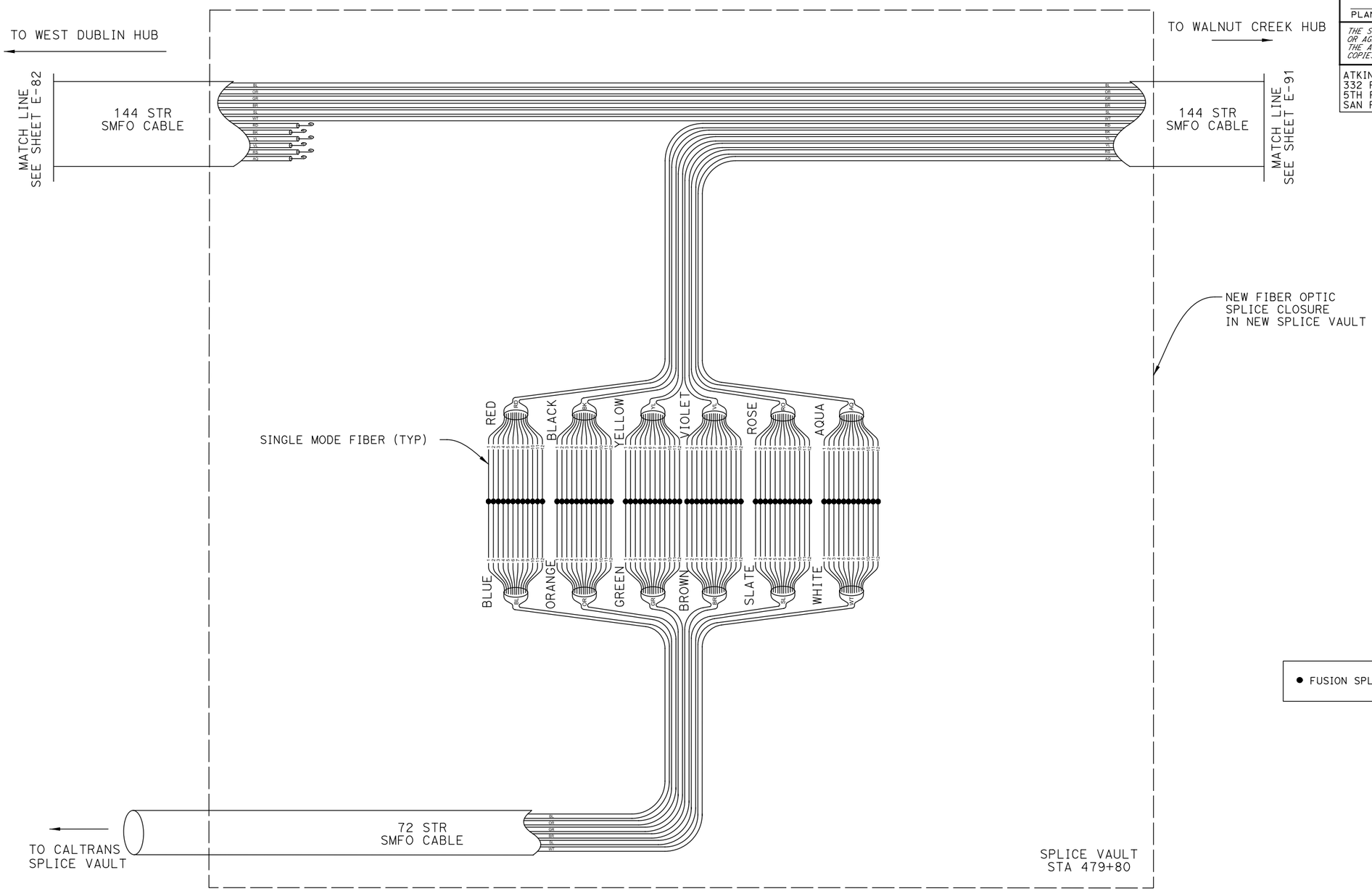
OAKLAND, CA 94607



● FUSION SPLICE POINT

ELECTRICAL DETAILS
(WEST DUBLIN HUB FIBER OPTIC SPLICE DIAGRAM)

NO SCALE

E-83

REVISED BY	DATE REVISED

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FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	151	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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101 EIGHTH STREET
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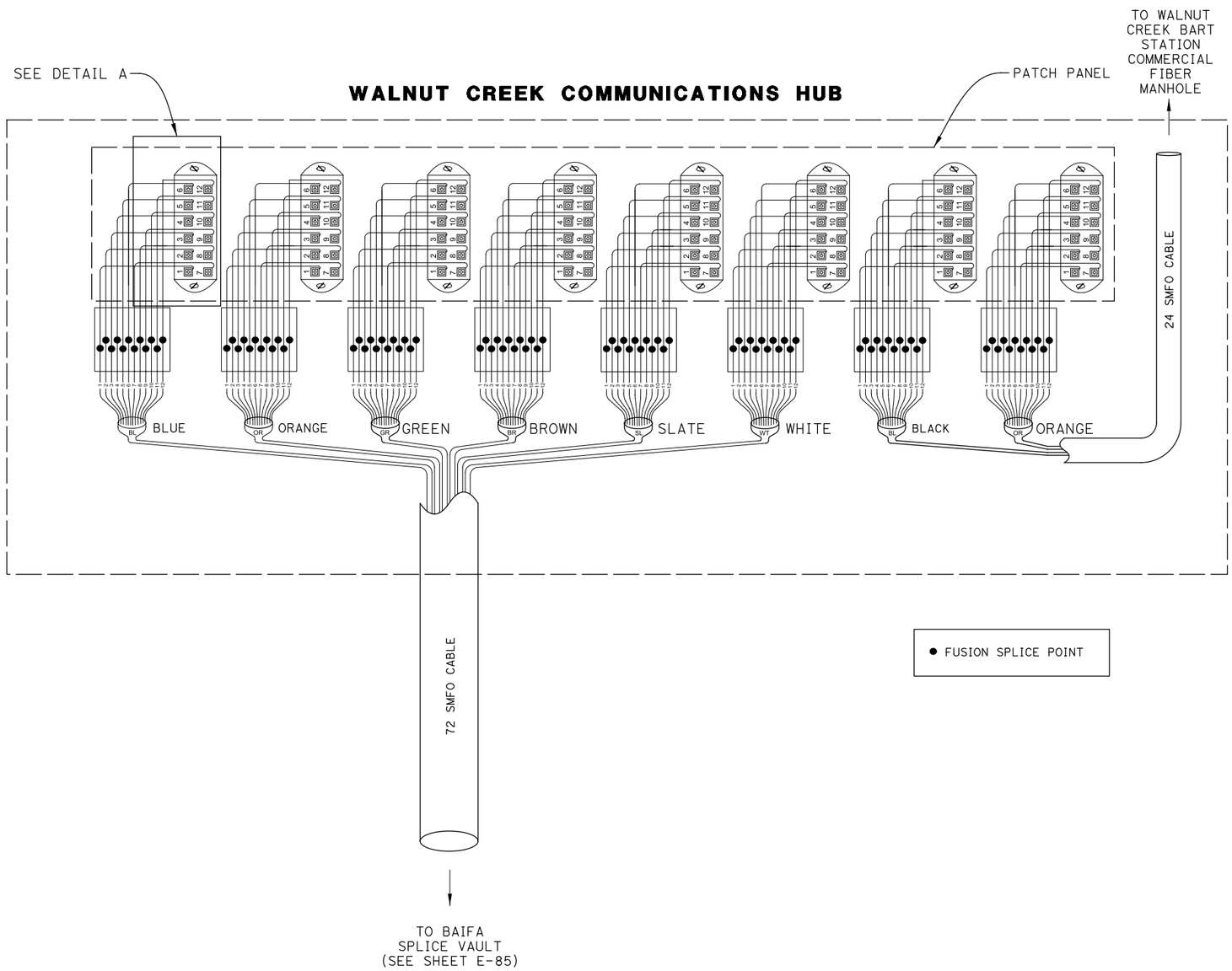
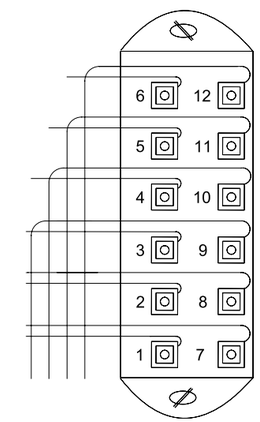


● FUSION SPLICE POINT



DETAIL A
FIBER PATCH PANEL

ELECTRICAL DETAILS
(WALNUT CREEK HUB FIBER OPTIC SPLICE DIAGRAM)

NO SCALE

E-84

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI

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FUNCTIONAL SUPERVISOR
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	152	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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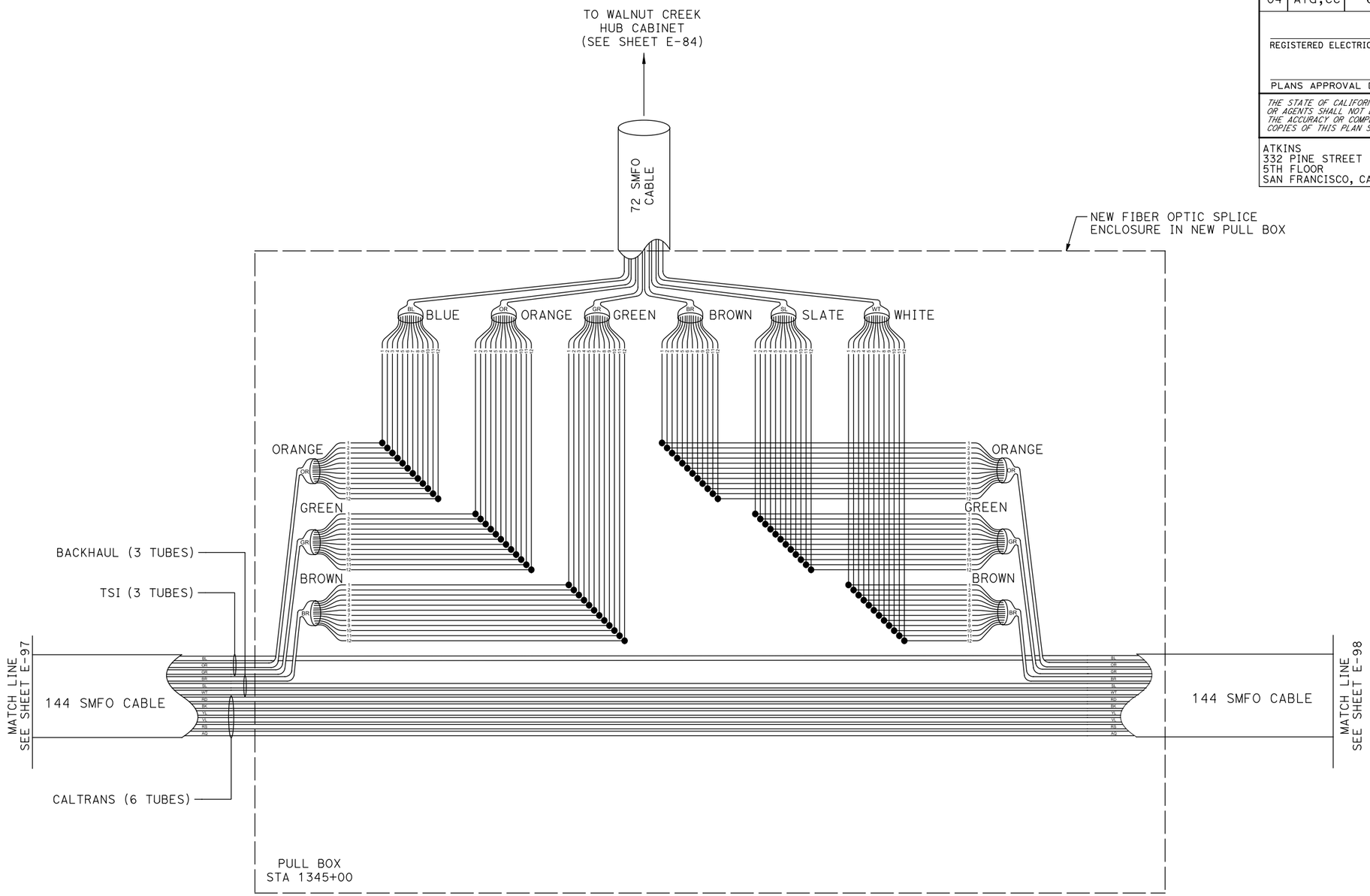
101 EIGHTH STREET
OAKLAND, CA 94607



● FUSION SPLICE POINT

ELECTRICAL DETAILS
(WALNUT CREEK HUB FIBER OPTIC SPLICE DIAGRAM)

NO SCALE

E-85

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI

CALCULATED-DESIGNED BY	CHECKED BY

FUNCTIONAL SUPERVISOR: KAI CHAN

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	153	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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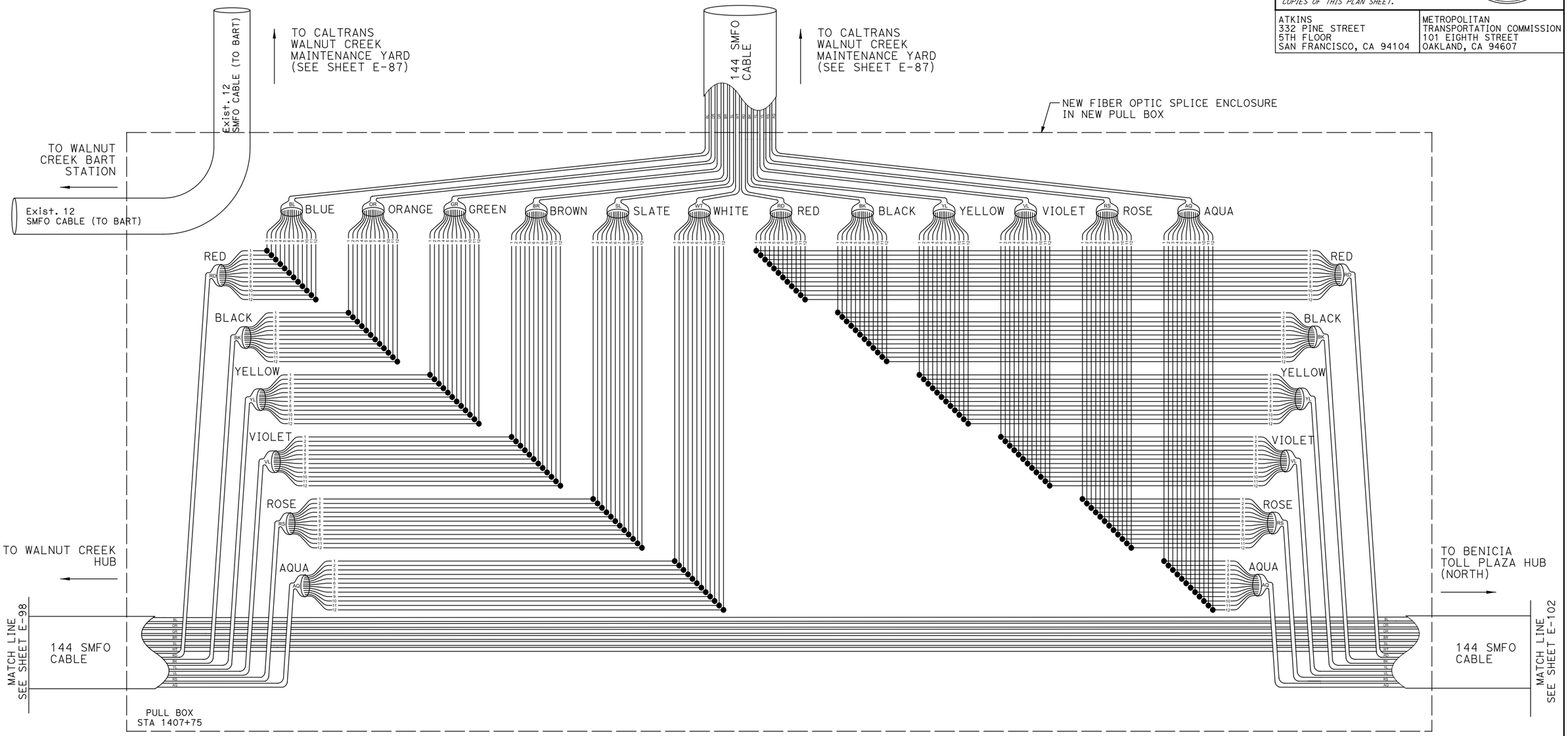
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



● FUSION SPLICE POINT

ELECTRICAL DETAILS
(WALNUT CREEK MAINTENANCE YARD BRANCH CABLE SPLICE DIAGRAM)
NO SCALE

E-86

REVISED BY | DATE REVISED
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CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | KAI CHAN

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 | DGN FILE => 0414000490ua086.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	154	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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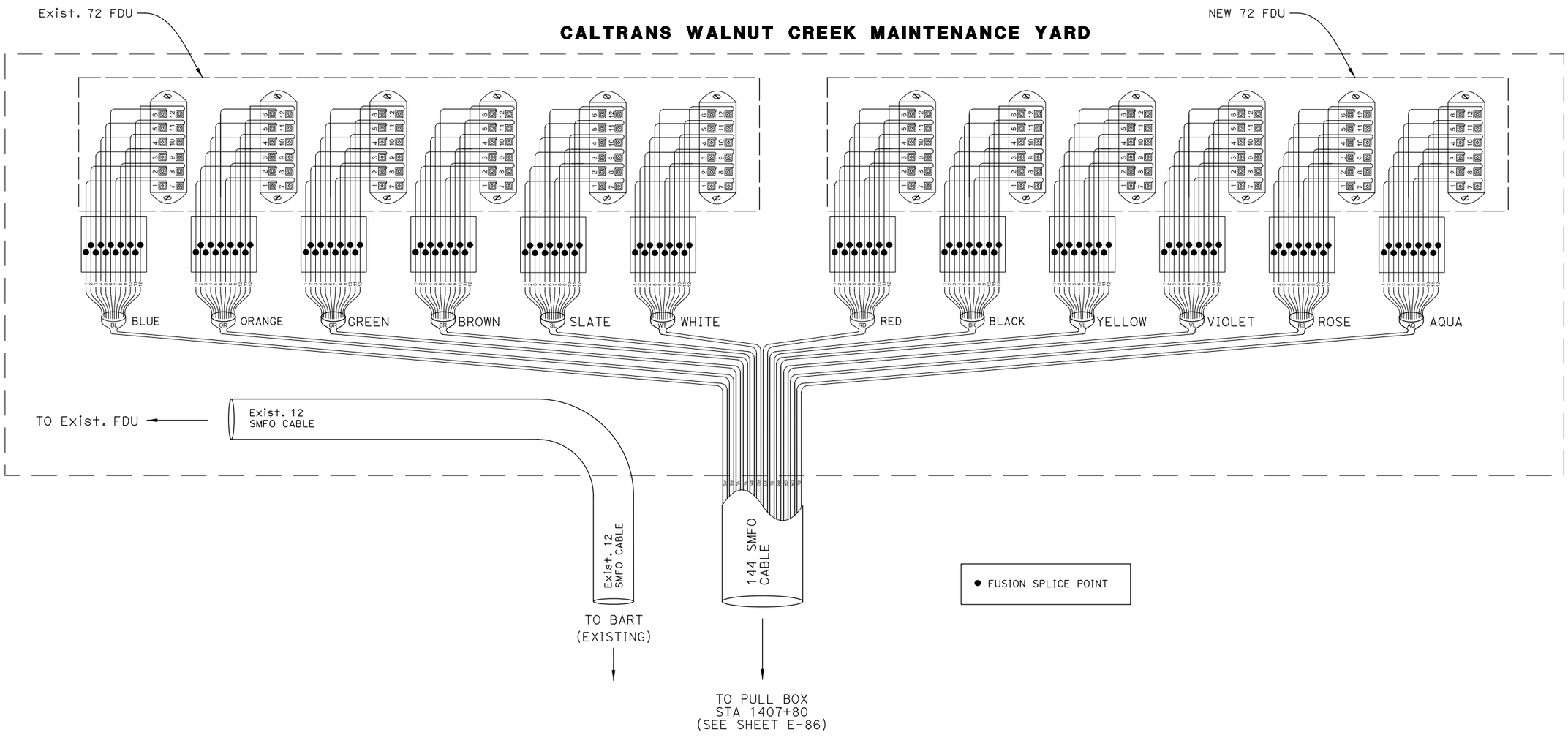
METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



ELECTRICAL DETAILS
(WALNUT CREEK MAINTENANCE YARD FIBER OPTIC SPLICE DIAGRAM)
NO SCALE

E-87

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 00-00-00 | DATE PLOTTED => 5/22/2015 | TIME PLOTTED => 6:24:54 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	155	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp. 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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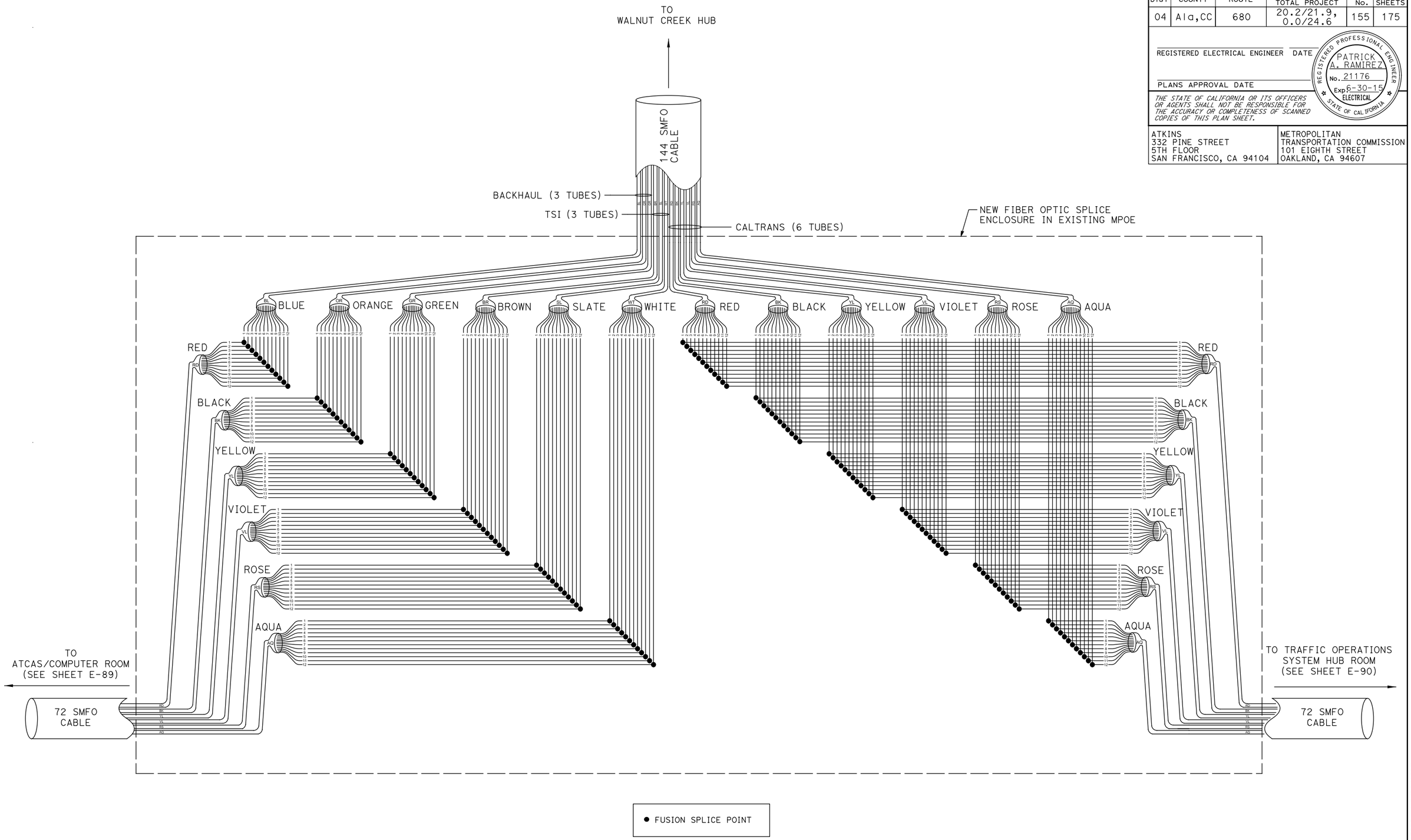

ELECTRICAL DETAILS
(BENICIA TOLL PLAZA FIBER OPTIC SPLICE DIAGRAM)

NO SCALE

E-88

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
JOEY PASKEY	KEVIN AGUIGUI

FUNCTIONAL SUPERVISOR
KAI CHAN

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	156	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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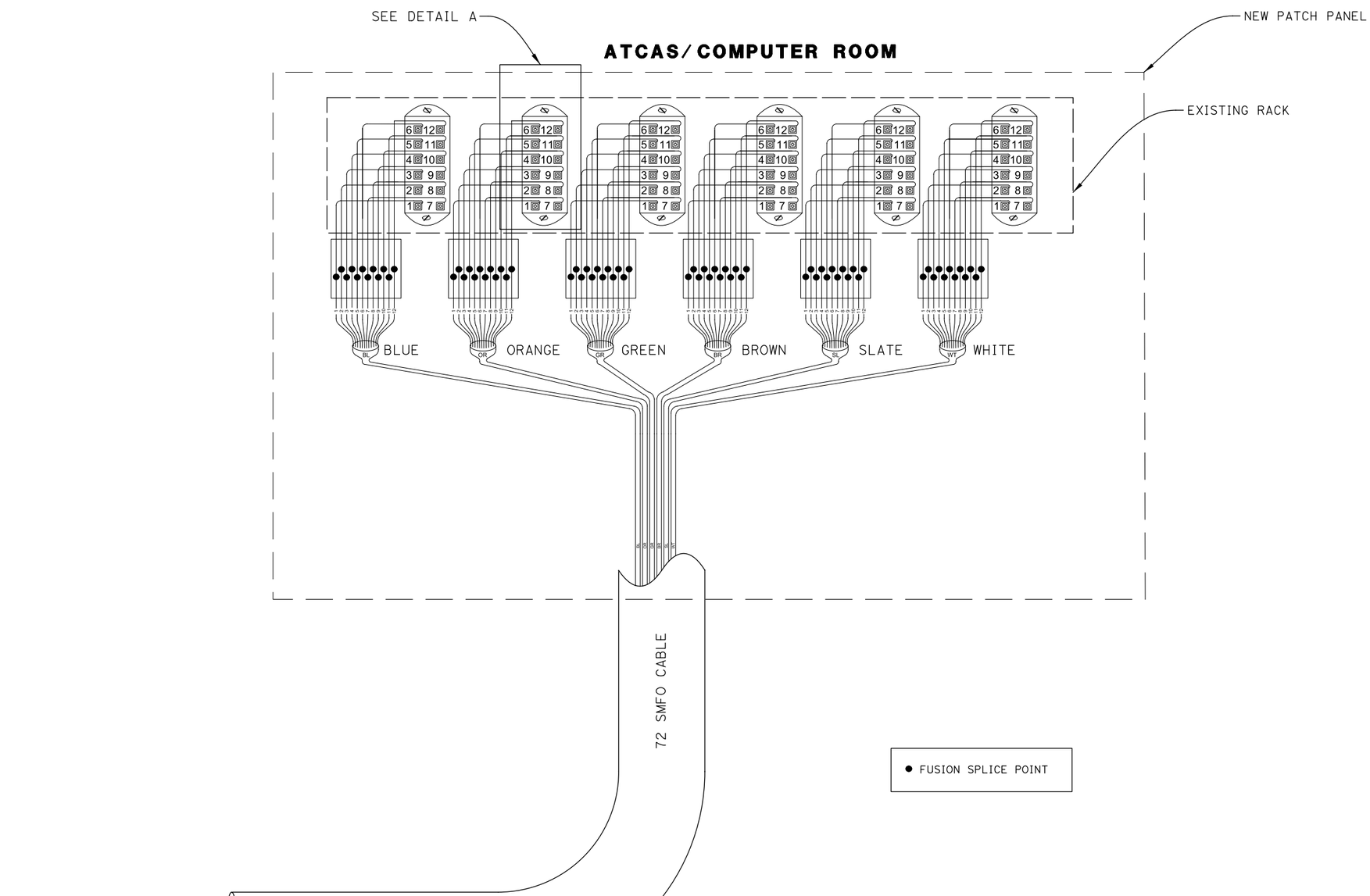
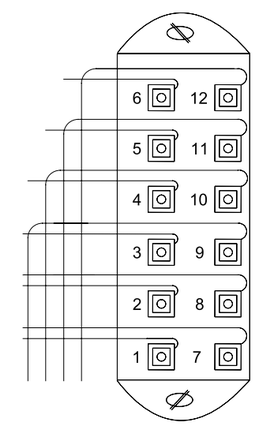


● FUSION SPLICE POINT



DETAIL A
FIBER PATCH PANEL

ELECTRICAL DETAILS
(BENICIA TOLL PLAZA FIBER OPTIC SPLICE DIAGRAM)

NO SCALE

E-89

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	157	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp. 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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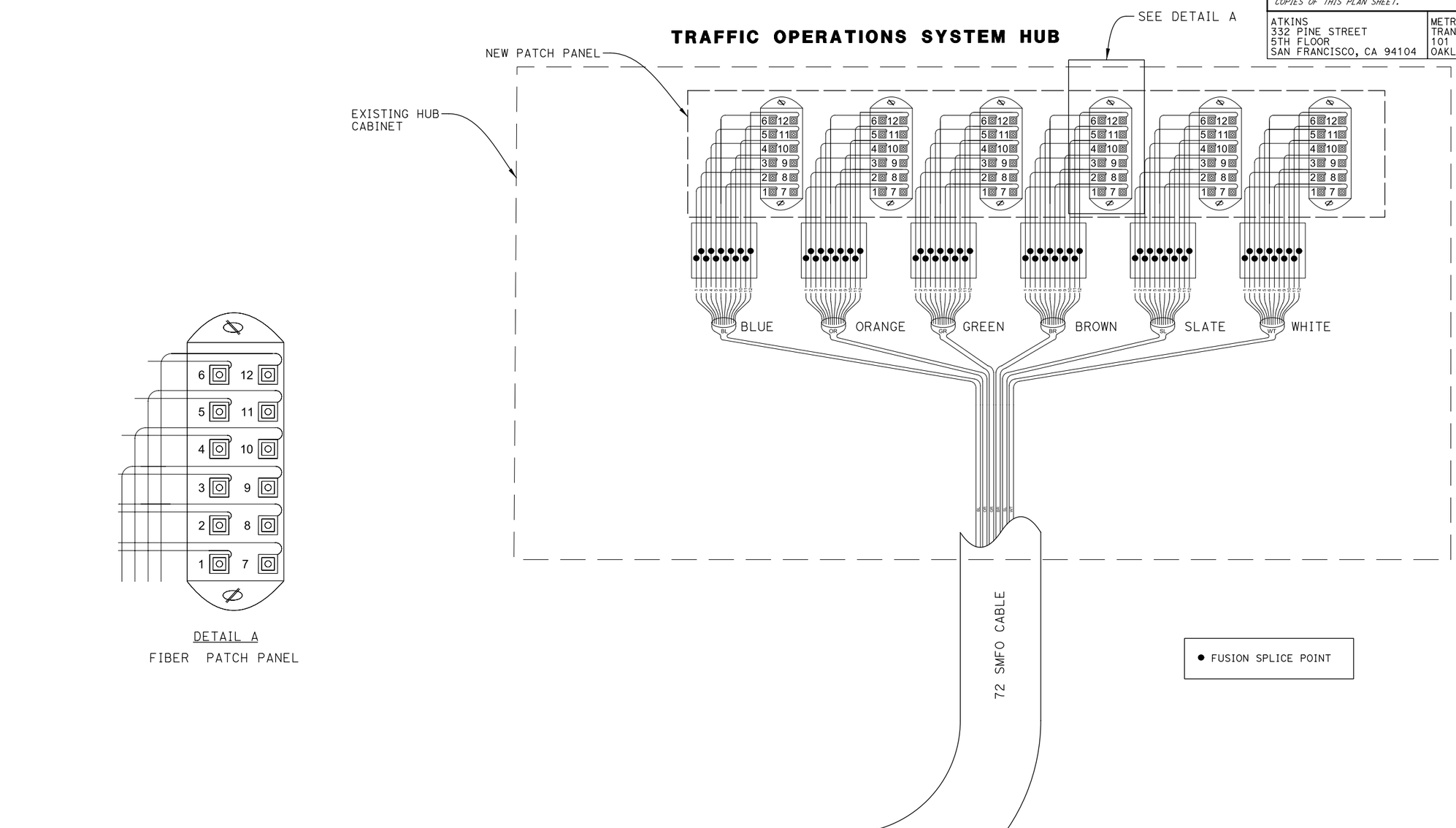

ELECTRICAL DETAILS
(BENICIA TOLL PLAZA FIBER OPTIC SPLICE DIAGRAM)

NO SCALE

E-90

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	158	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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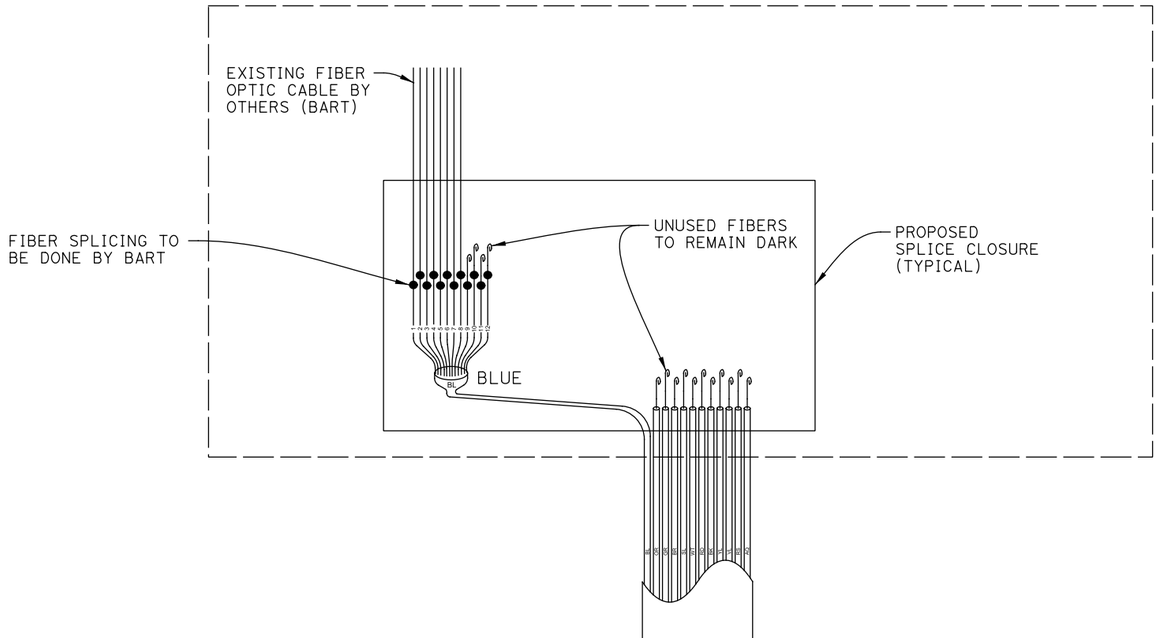
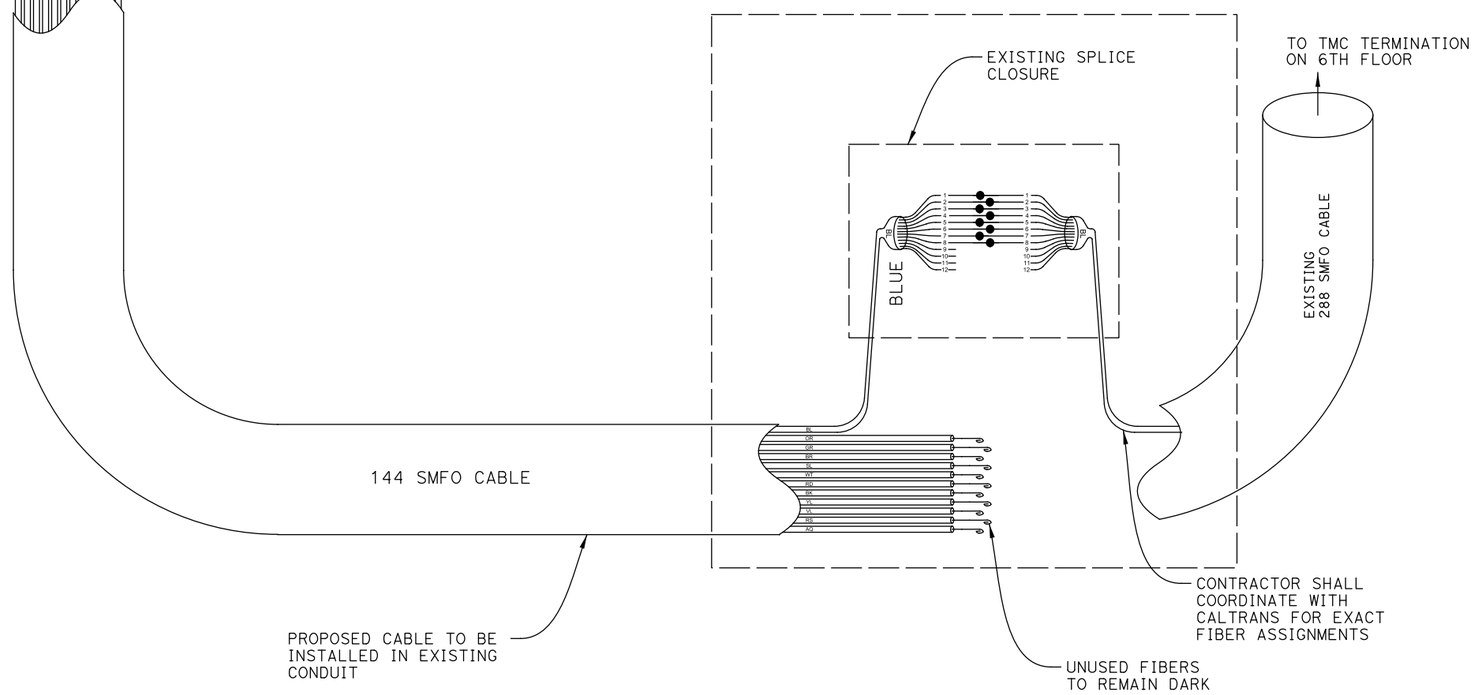
EXISTING CALTRANS FIBER OPTIC VAULT (23rd St & NORTHGATE Ave)



● FUSION SPLICE POINT

EXISTING CALTRANS SPLICE VAULT (CALTRANS DISTRICT 4 HEADQUARTERS)



ELECTRICAL DETAILS
(CALTRANS TMC FIBER OPTIC SPLICE DIAGRAM)

NO SCALE

E-91

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/22/2015 | TIME PLOTTED => 6:25:06 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	159	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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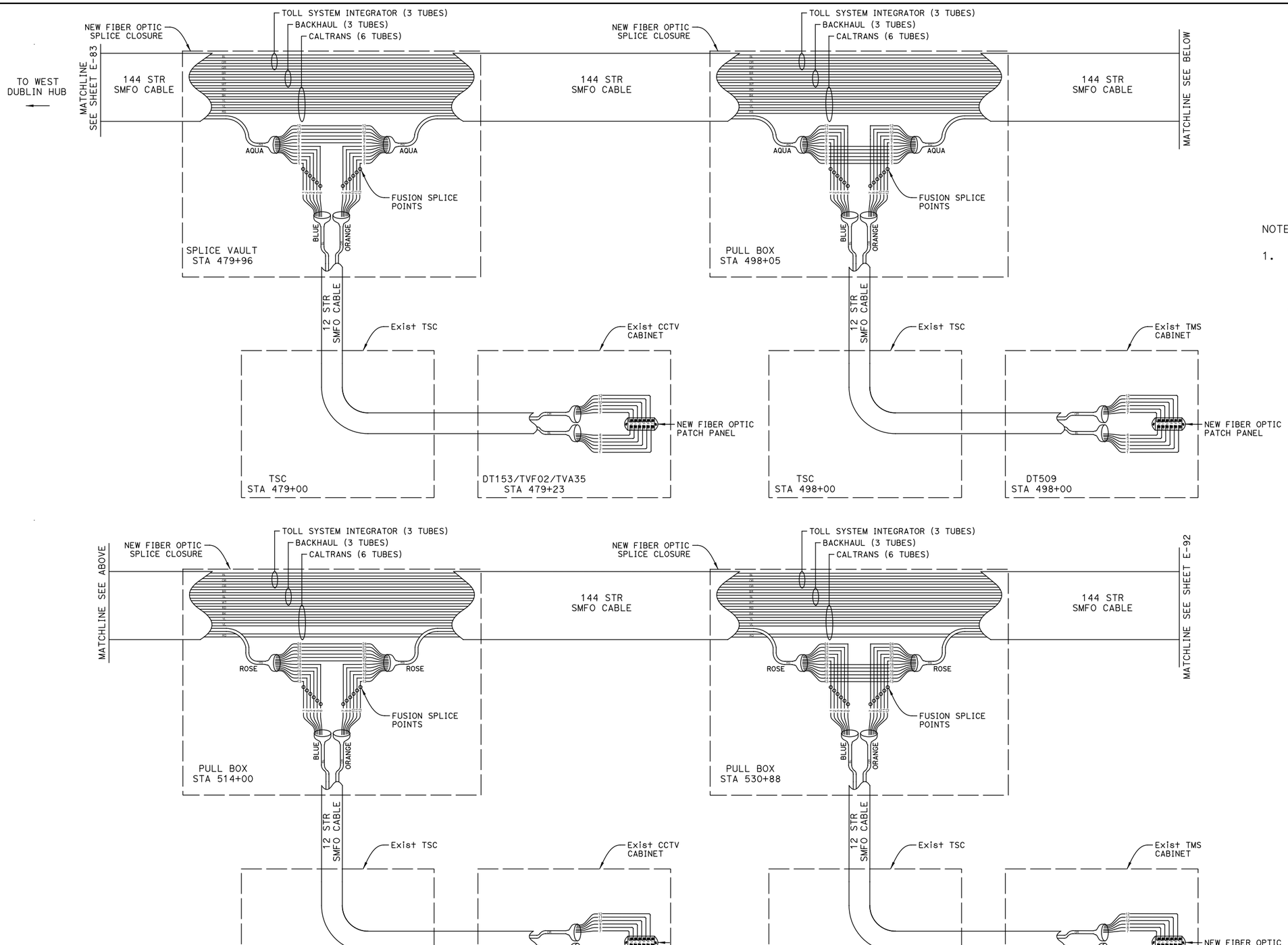
OAKLAND, CA 94607



NOTES:

1. CONTRACTOR SHALL BE ALLOWED UP TO FIVE (5) TRUNK SPLICES BETWEEN BACKHAUL COMMUNICATION HUB CABINETS AT WEST DUBLIN AND WALNUT CREEK TO ACCOMMODATE FIBER OPTIC CABLE REEL LENGTHS. CONTRACTOR SHALL BE ALLOWED UP TO THREE (3) TRUNK SPLICES BETWEEN BACKHAUL COMMUNICATION HUB CABINETS AT WALNUT CREEK AND BENICIA TOLL PLAZA TO ACCOMMODATE FIBER OPTIC CABLE REEL LENGTHS. CONTRACTOR SHALL SUBMIT PROPOSED TRUNK SPLICE LOCATIONS TO ENGINEER FOR APPROVAL.

ELECTRICAL DETAILS
(TRUNKLINE SPLICE CABINET SPLICE DIAGRAM)

NO SCALE

E-92

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	160	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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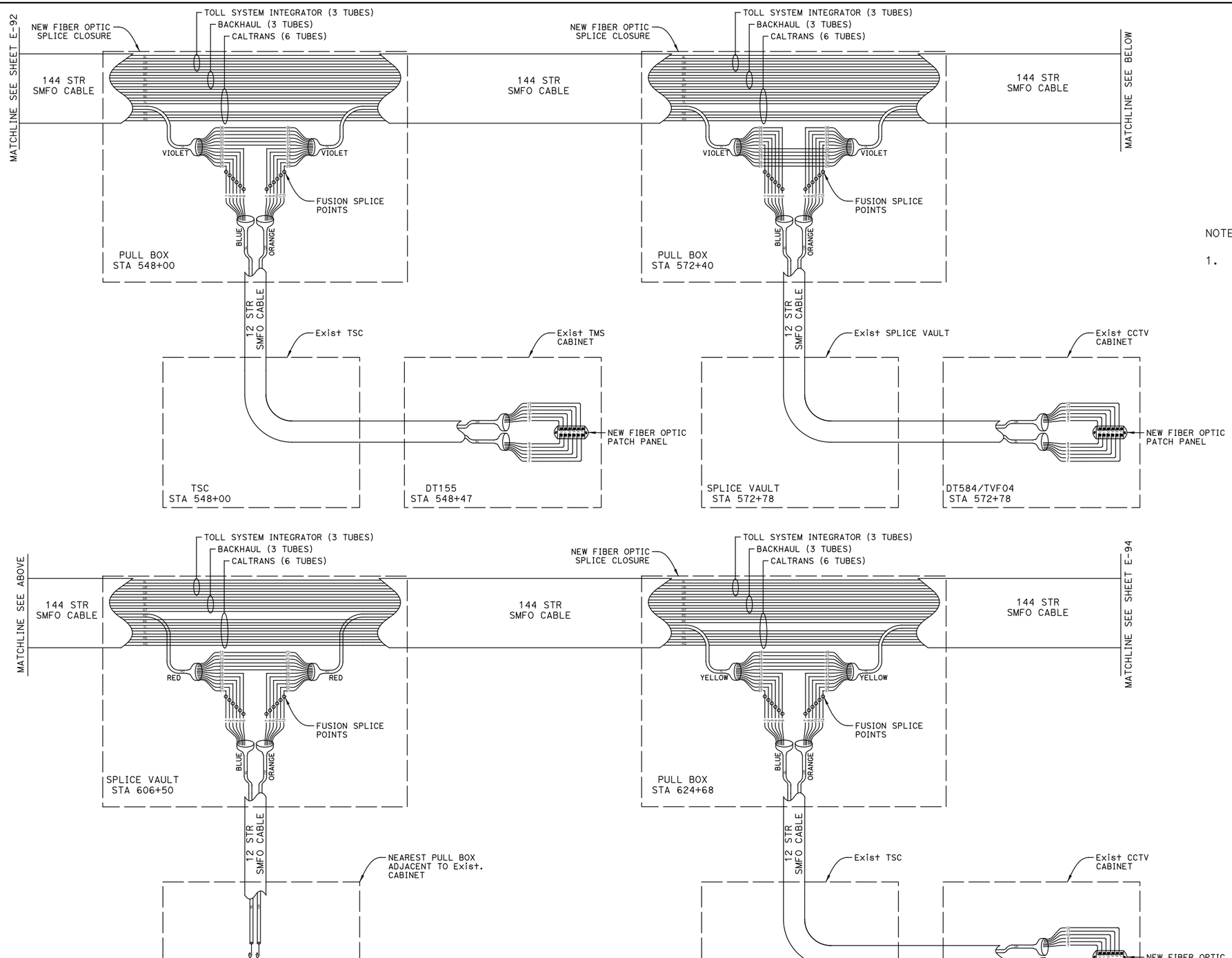

NOTES:

1. CONTRACTOR SHALL BE ALLOWED UP TO FIVE (5) TRUNK SPLICES BETWEEN BACKHAUL COMMUNICATION HUB CABINETS AT WEST DUBLIN AND WALNUT CREEK TO ACCOMMODATE FIBER OPTIC CABLE REEL LENGTHS. CONTRACTOR SHALL BE ALLOWED UP TO THREE (3) TRUNK SPLICES BETWEEN BACKHAUL COMMUNICATION HUB CABINETS AT WALNUT CREEK AND BENICIA TOLL PLAZA TO ACCOMMODATE FIBER OPTIC CABLE REEL LENGTHS. CONTRACTOR SHALL SUBMIT PROPOSED TRUNK SPLICE LOCATIONS TO ENGINEER FOR APPROVAL.

ELECTRICAL DETAILS
(TRUNKLINE SPLICE CABINET SPLICE DIAGRAM)

NO SCALE

E-93

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LAST REVISION 00-00-00
DATE PLOTTED => 5/23/2015
TIME PLOTTED => 11:28:35 AM

BORDER LAST REVISED 7/2/2010
USERNAME => ZERE2344
DGN FILE => 0414000490ua093.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0750
PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	161	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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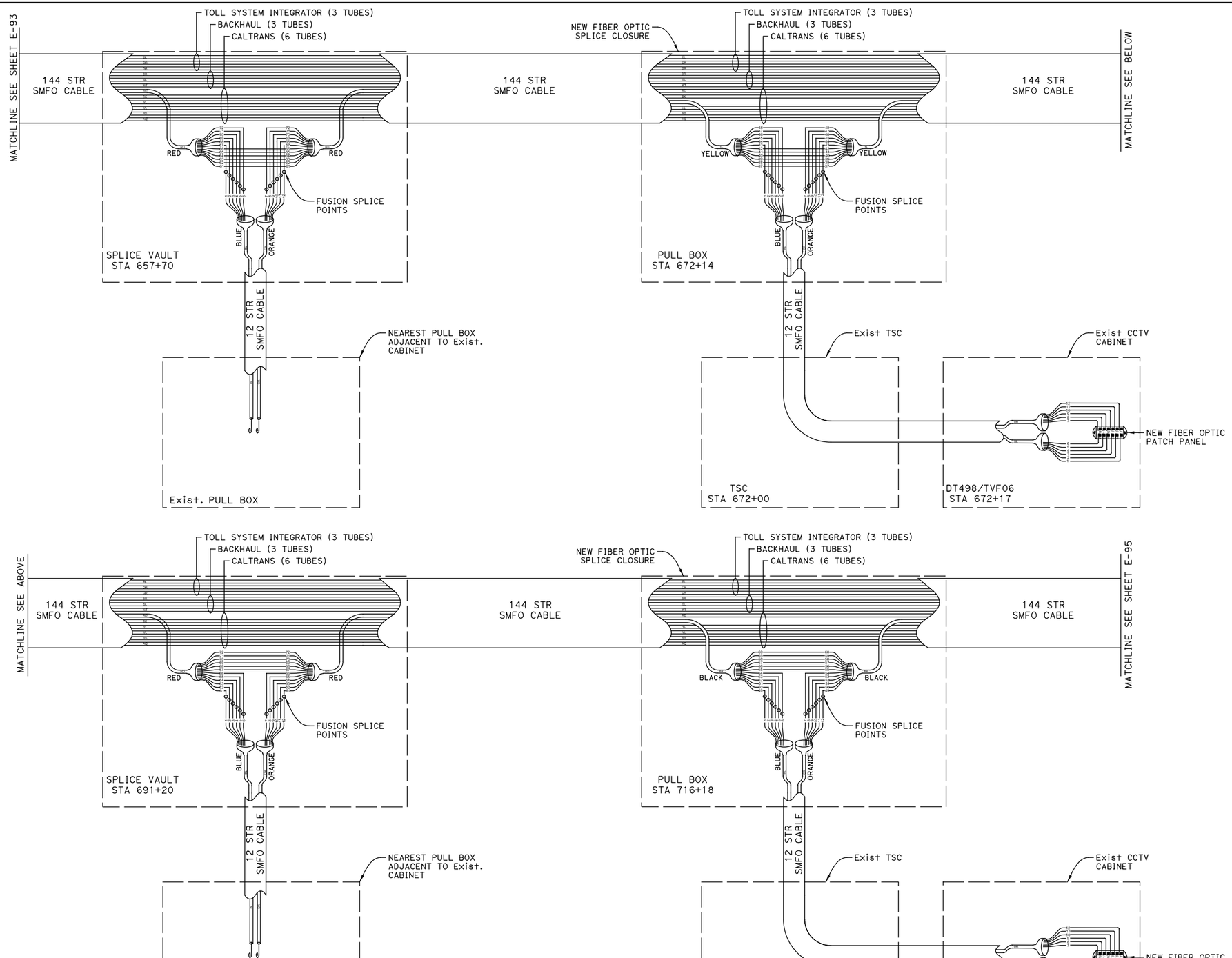
OAKLAND, CA 94607



NOTES:

1. CONTRACTOR SHALL BE ALLOWED UP TO EIGHT (8) TRUNK SPLICES BETWEEN BACKHAUL COMMUNICATION HUB CABINETS, TO ACCOMMODATE FIBER OPTIC CABLE REEL LENGTHS. CONTRACTOR SHALL SUBMIT TO ENGINEER FOR APPROVAL ALL LOCATIONS OF PROPOSED TRUNK SPLICES.

ELECTRICAL DETAILS
(TRUNKLINE SPLICE CABINET SPLICE DIAGRAM)

NO SCALE

E-94

REVISED BY | DATE REVISED
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LAST REVISION 00-00-00 | DATE PLOTTED => 5/23/2015 | TIME PLOTTED => 11:28:38 AM

BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 | DGN FILE => 0414000490ua094.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	162	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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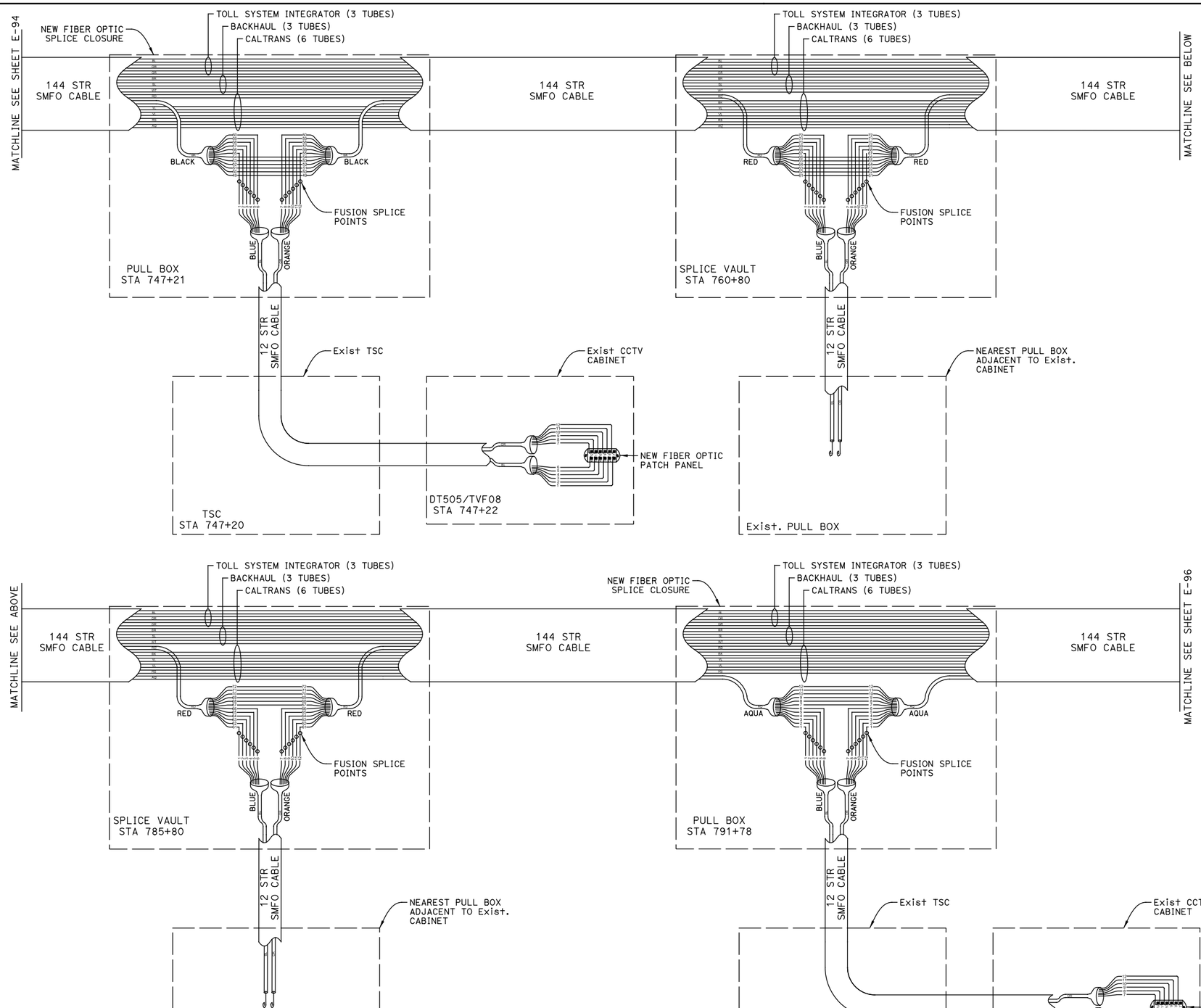

NOTES:

1. CONTRACTOR SHALL BE ALLOWED UP TO FIVE (5) TRUNK SPLICES BETWEEN BACKHAUL COMMUNICATION HUB CABINETS AT WEST DUBLIN AND WALNUT CREEK TO ACCOMMODATE FIBER OPTIC CABLE REEL LENGTHS. CONTRACTOR SHALL BE ALLOWED UP TO THREE (3) TRUNK SPLICES BETWEEN BACKHAUL COMMUNICATION HUB CABINETS AT WALNUT CREEK AND BENICIA TOLL PLAZA TO ACCOMMODATE FIBER OPTIC CABLE REEL LENGTHS. CONTRACTOR SHALL SUBMIT PROPOSED TRUNK SPLICE LOCATIONS TO ENGINEER FOR APPROVAL.

ELECTRICAL DETAILS
(TRUNKLINE SPLICE CABINET SPLICE DIAGRAM)

NO SCALE

E-95

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 | DGN FILE => 0414000490ua095.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	163	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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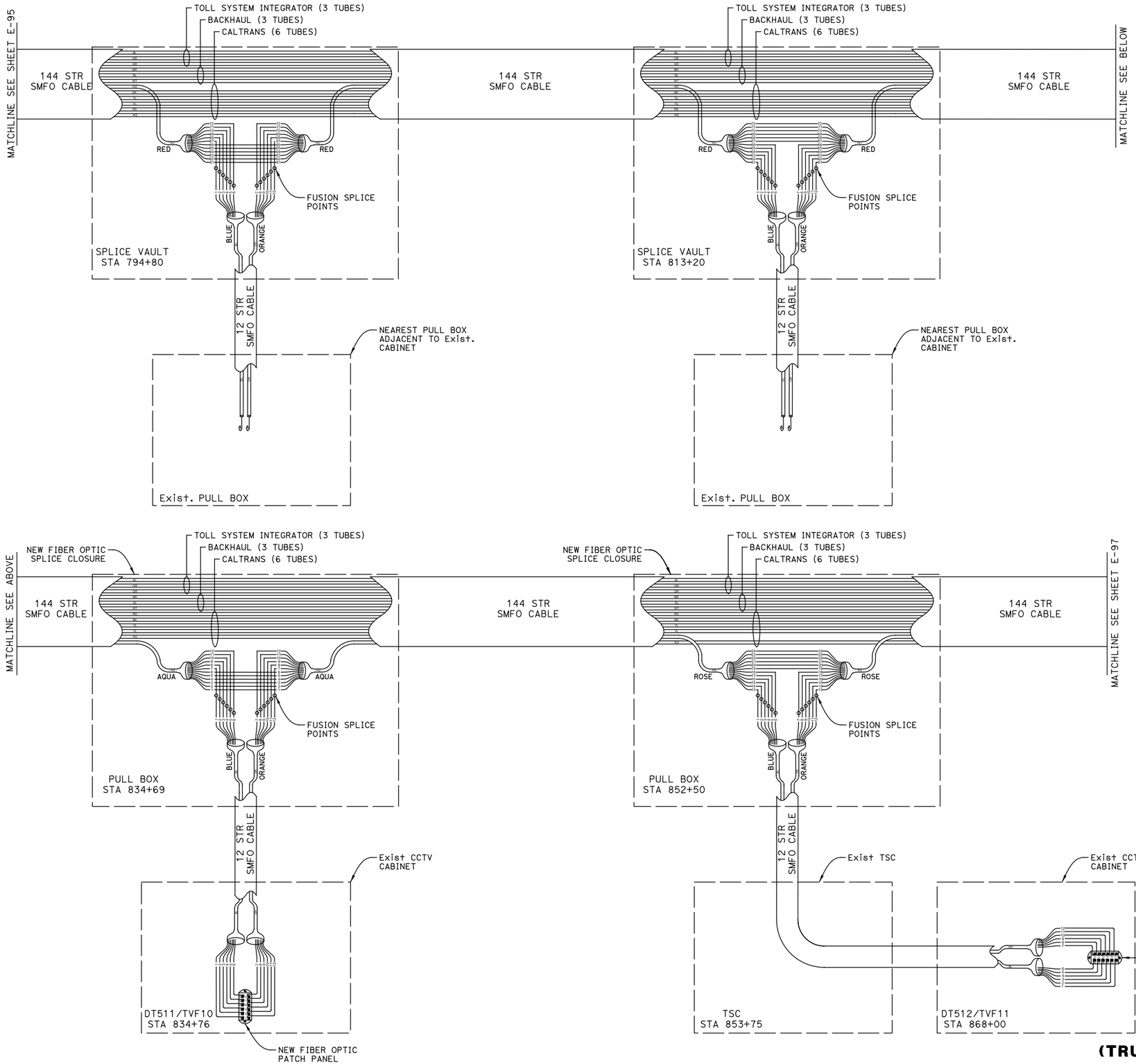

NOTES:

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ELECTRICAL DETAILS
(TRUNKLINE SPLICE CABINET SPLICE DIAGRAM)

NO SCALE

E-96

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Caltrans

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 | DGN FILE => 0414000490ua096.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	164	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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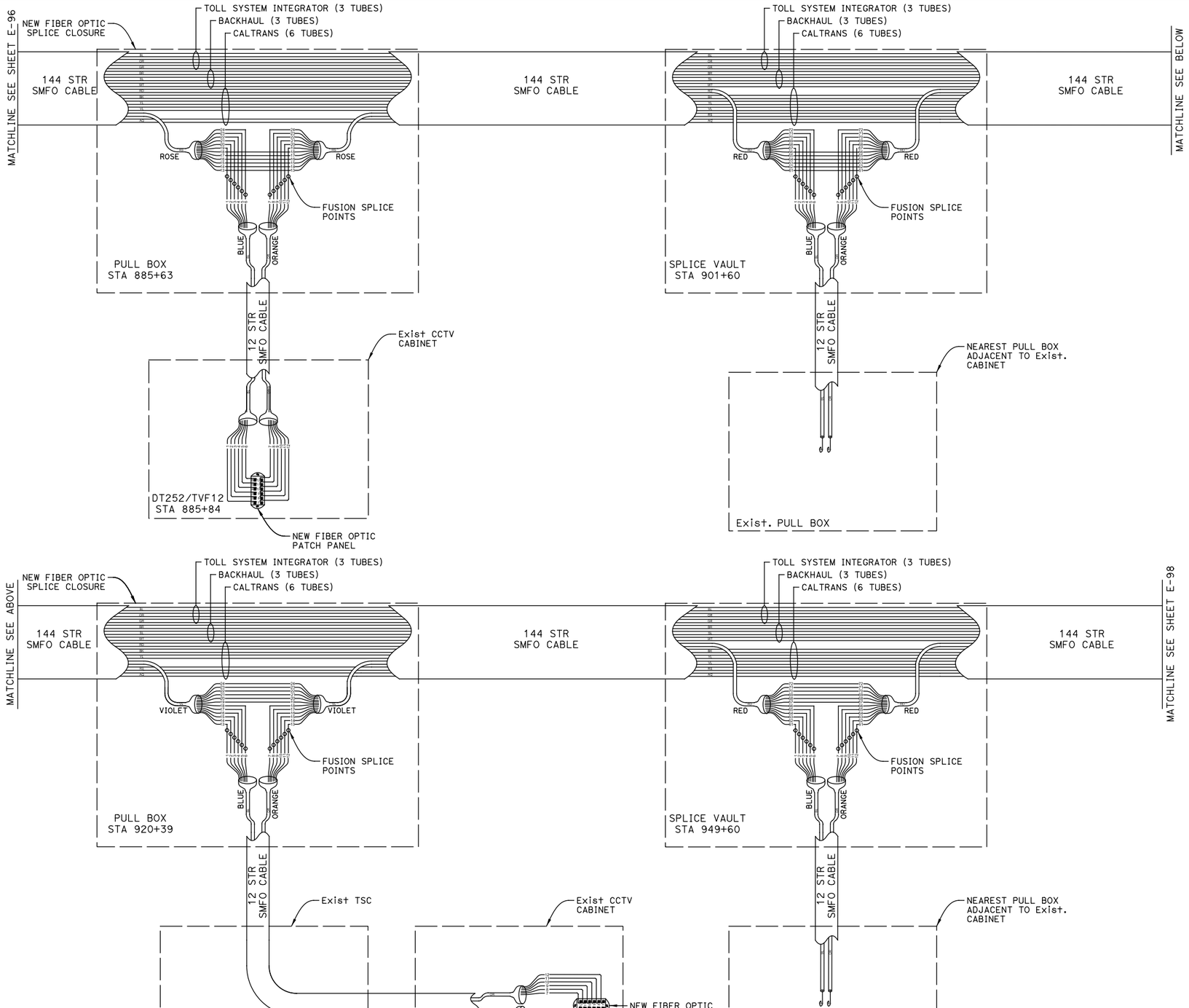

NOTES:

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ELECTRICAL DETAILS
(TRUNKLINE SPLICE CABINET SPLICE DIAGRAM)

NO SCALE

E-97

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	165	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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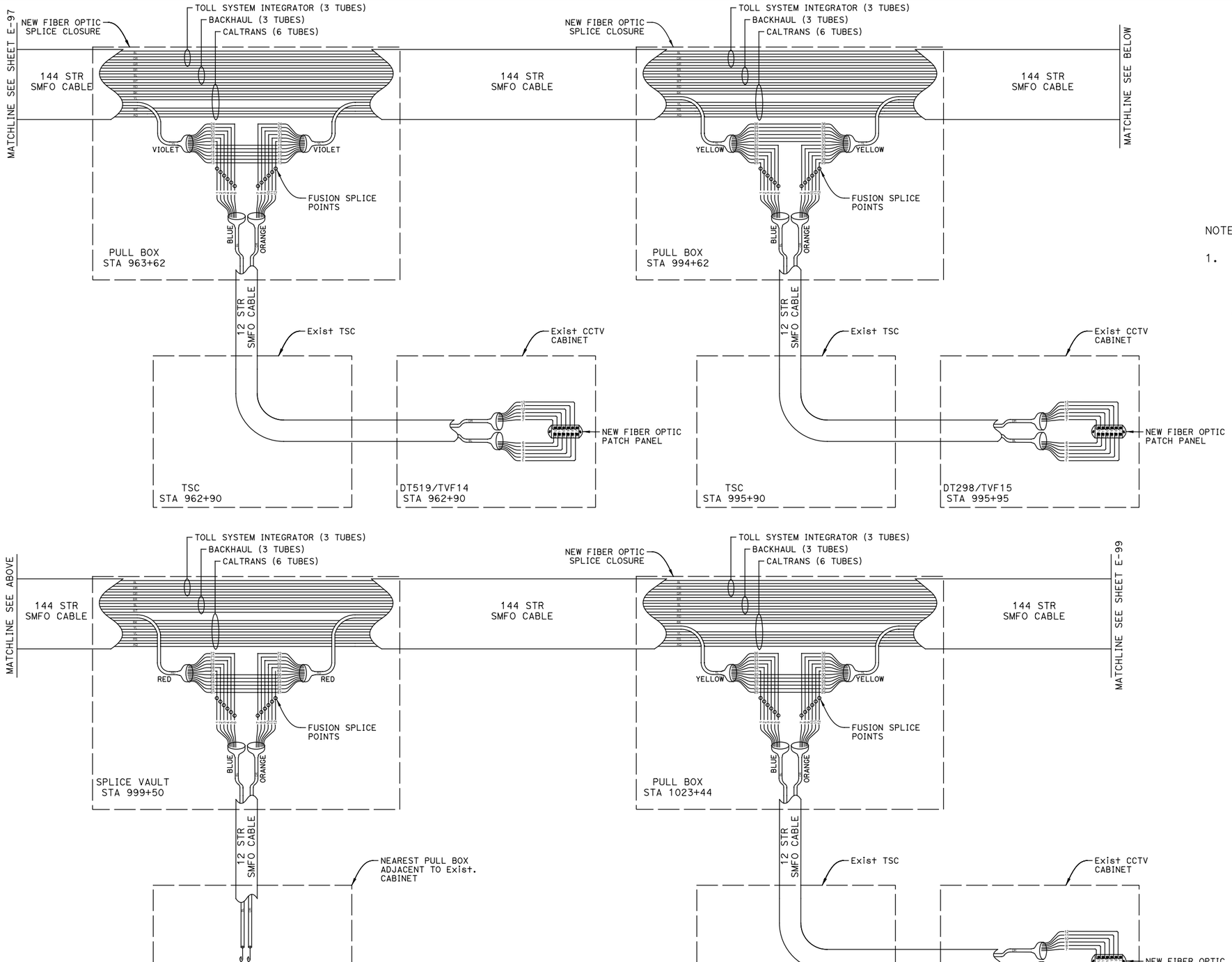

NOTES:

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ELECTRICAL DETAILS
(TRUNKLINE SPLICE CABINET SPLICE DIAGRAM)

NO SCALE

E-98

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 | DGN FILE => 0414000490ua098.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	166	175

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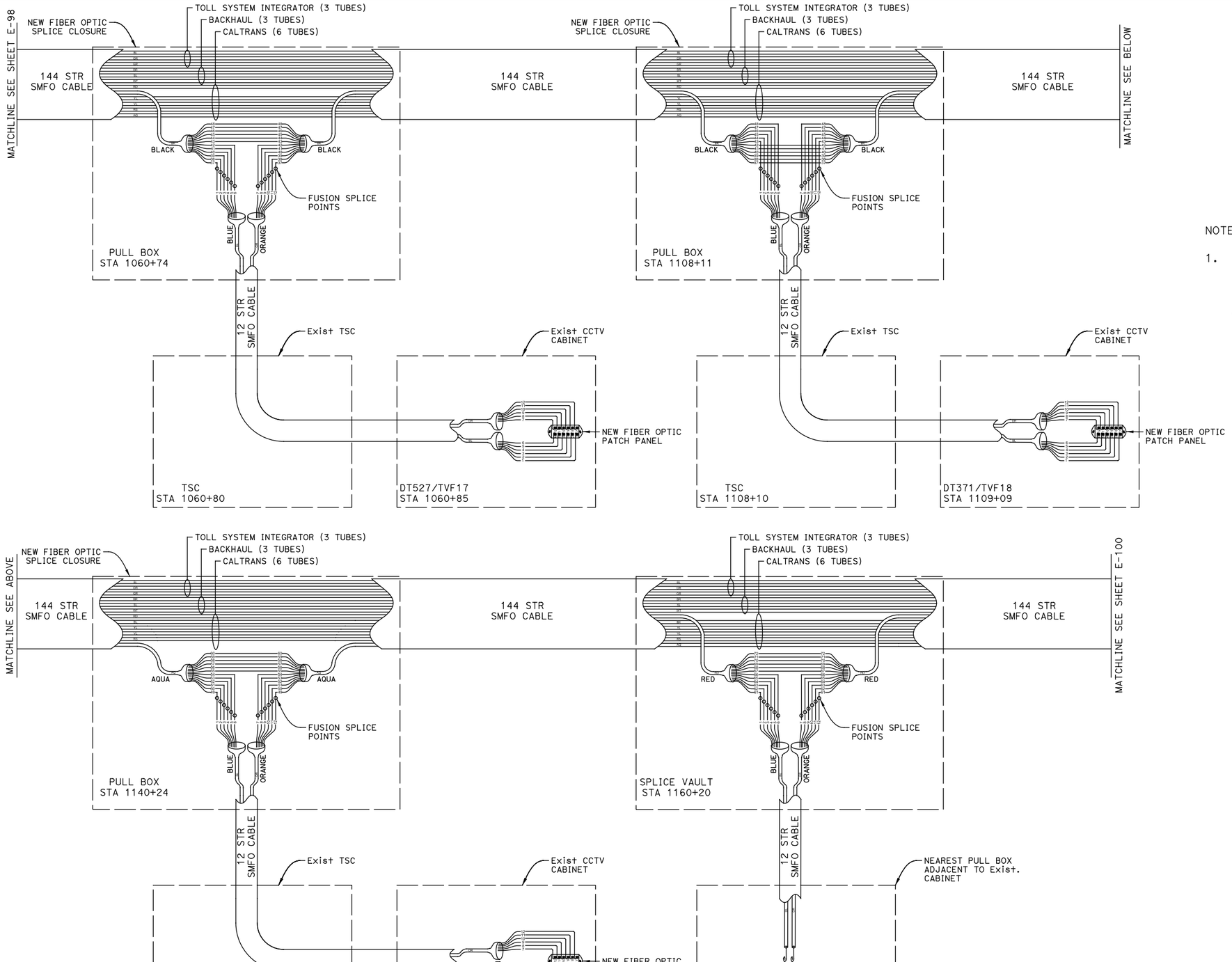

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ELECTRICAL DETAILS
(TRUNKLINE SPLICE CABINET SPLICE DIAGRAM)

NO SCALE

E-99

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala,CC	680	20.2/21.9, 0.0/24.6	167	175

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PATRICK A. RAMIREZ No. 21176 Exp 6-30-15 ELECTRICAL STATE OF CALIFORNIA

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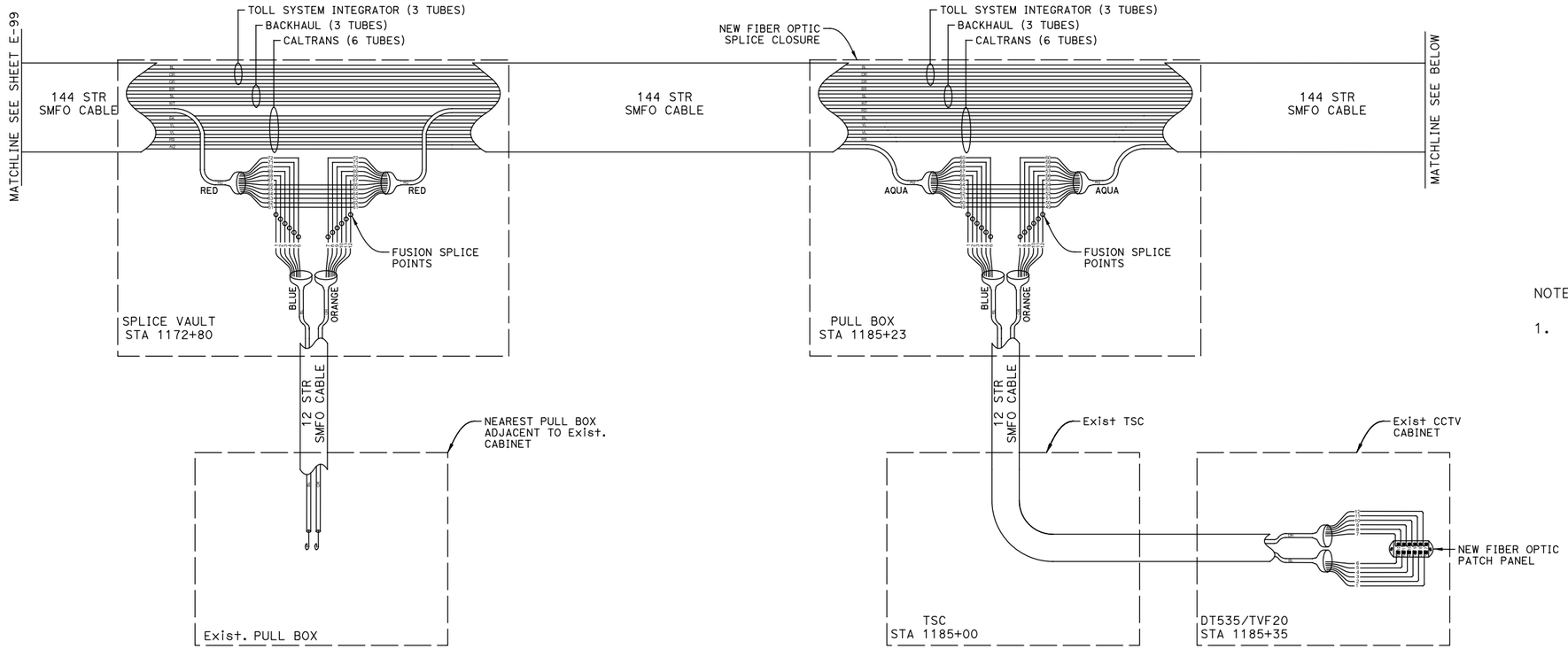

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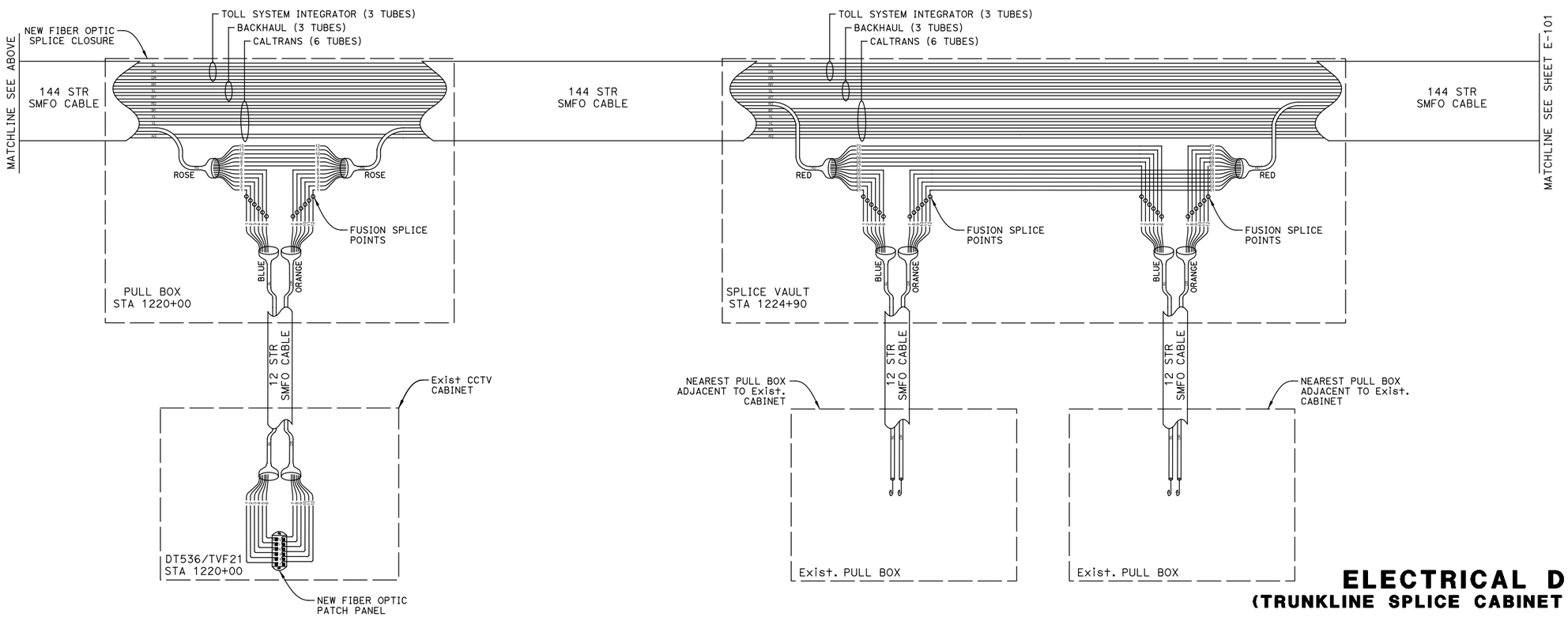

ELECTRICAL DETAILS
(TRUNKLINE SPLICE CABINET SPLICE DIAGRAM)

NO SCALE

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BORDER LAST REVISED 7/2/2010 | USERNAME => ZERE2344 | DGN FILE => 0414000490ua100.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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PLANS APPROVAL DATE

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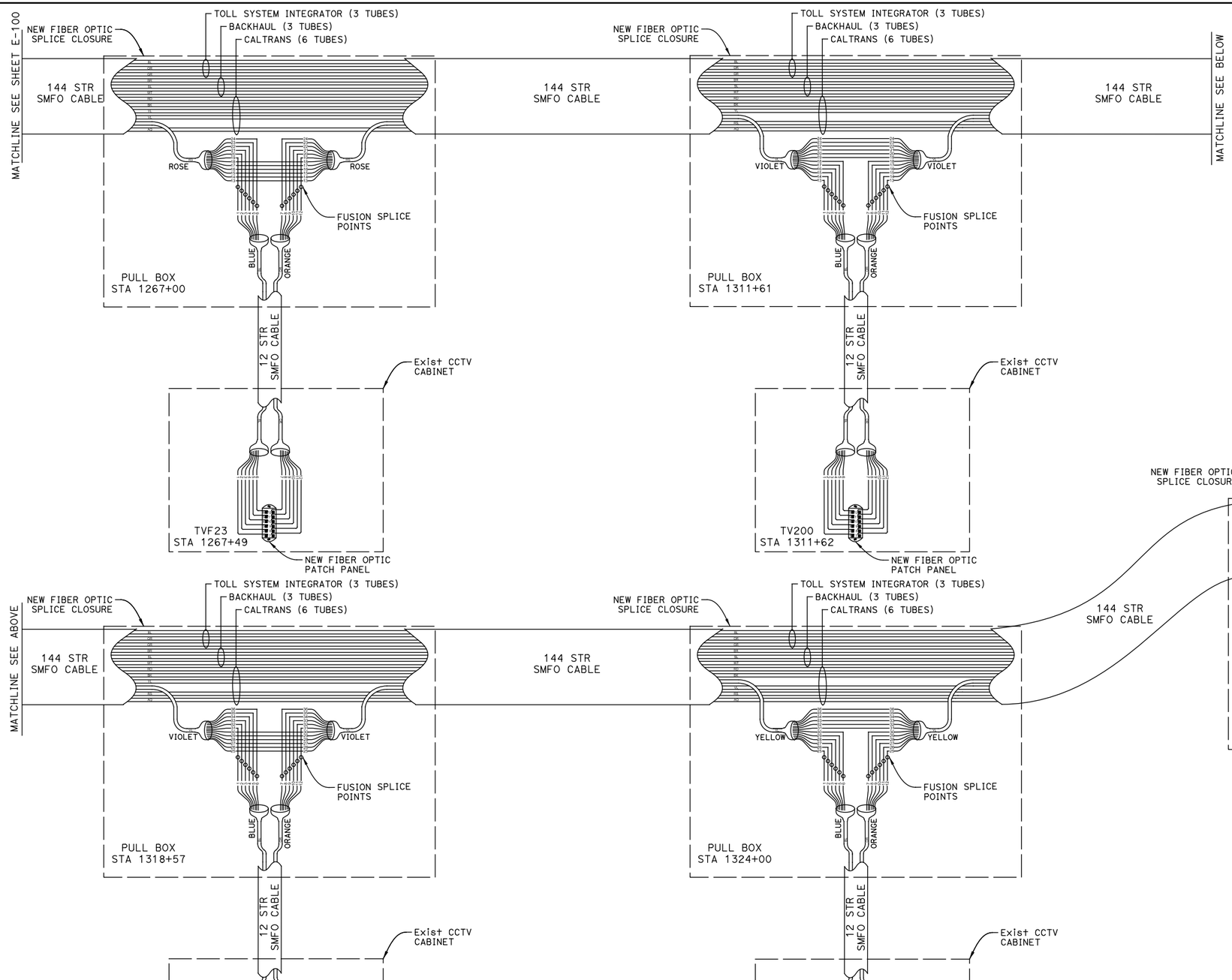

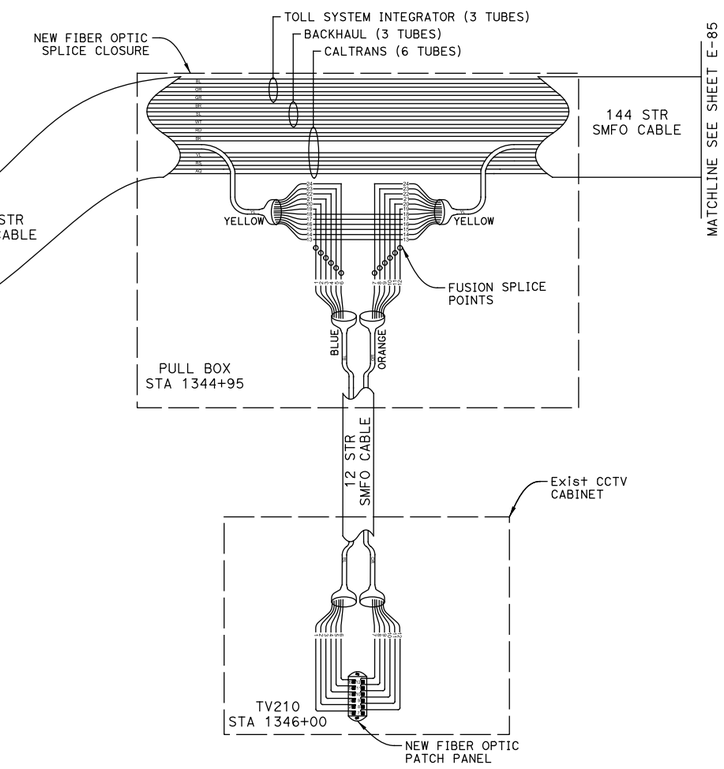

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ELECTRICAL DETAILS
(TRUNKLINE SPLICE CABINET SPLICE DIAGRAM)

NO SCALE

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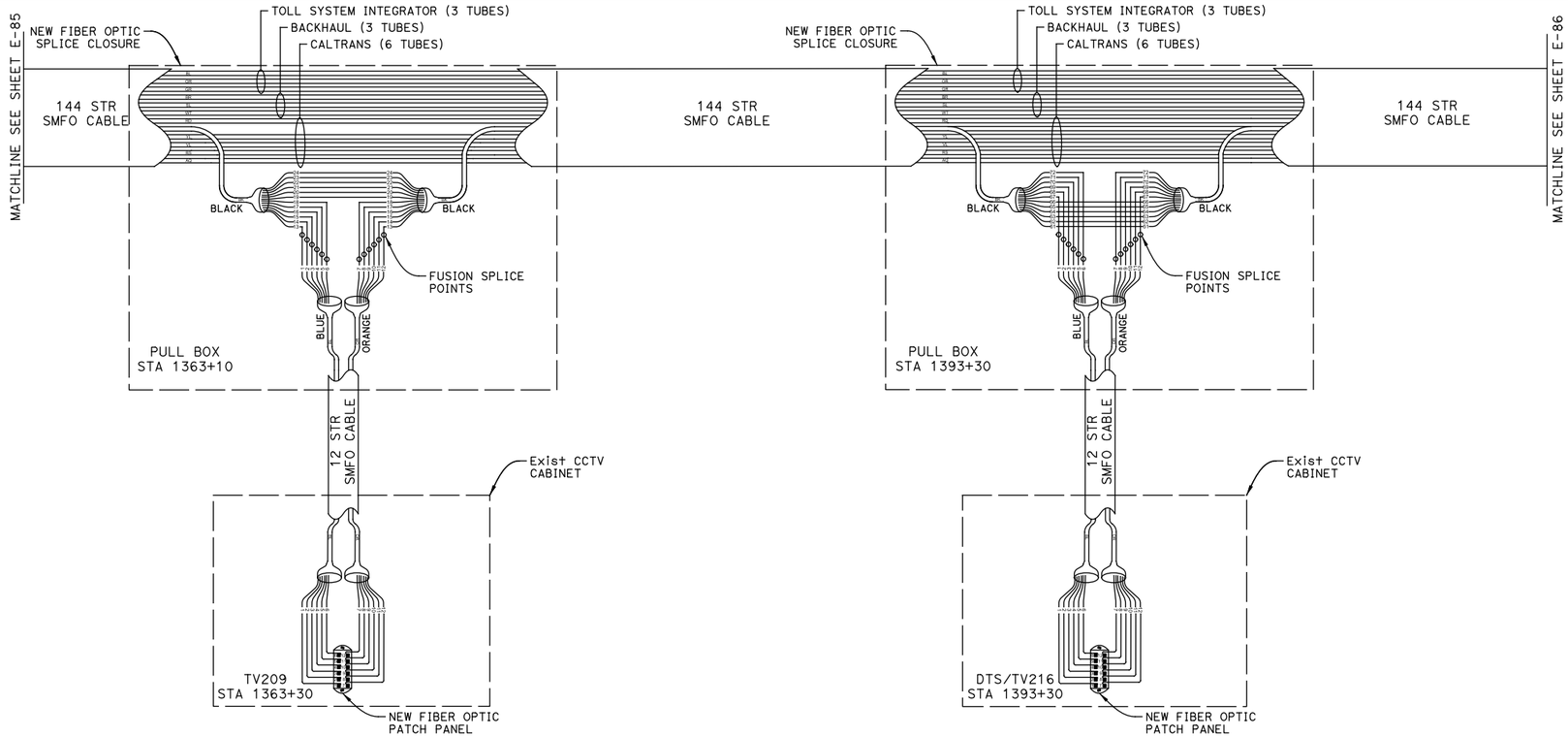

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ELECTRICAL DETAILS
(TRUNKLINE SPLICE CABINET SPLICE DIAGRAM)

NO SCALE

E-102

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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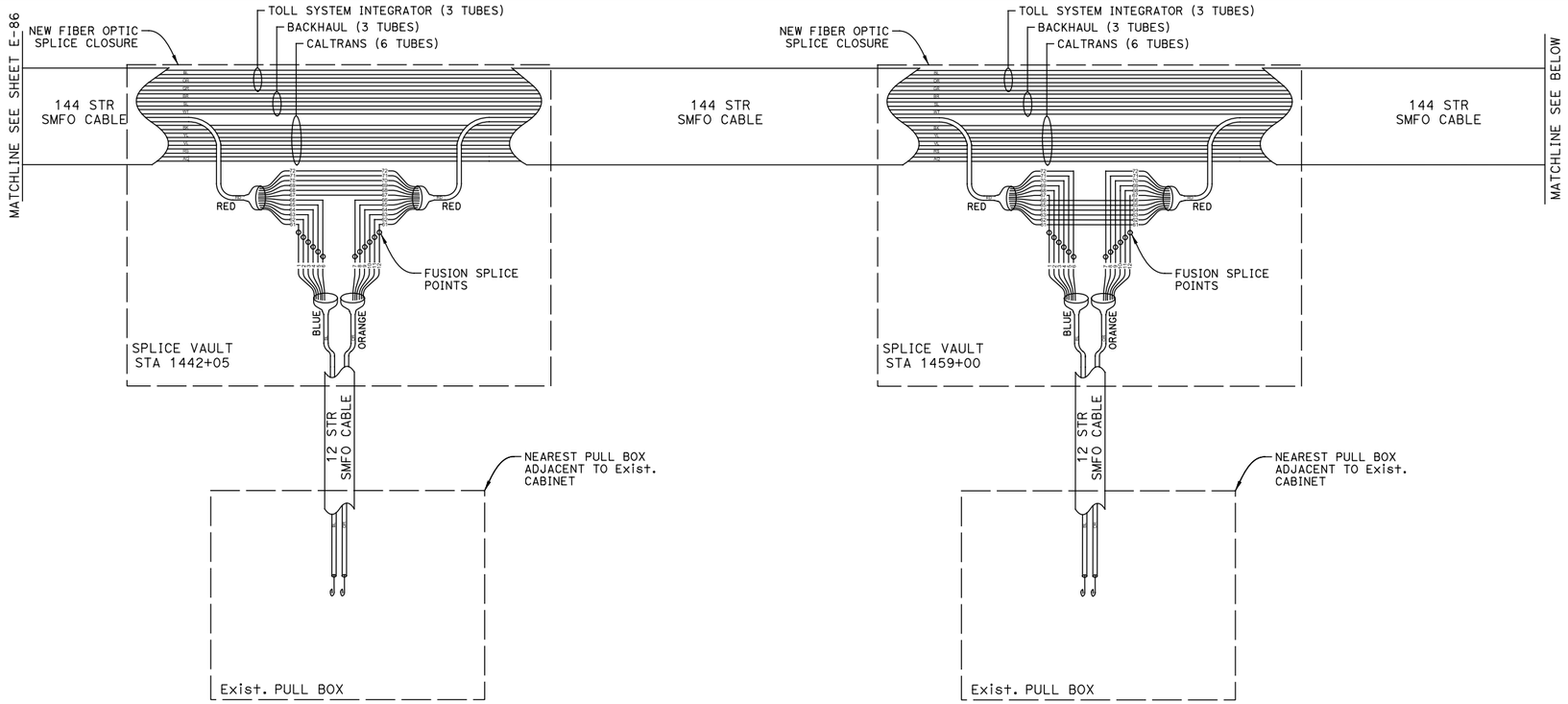
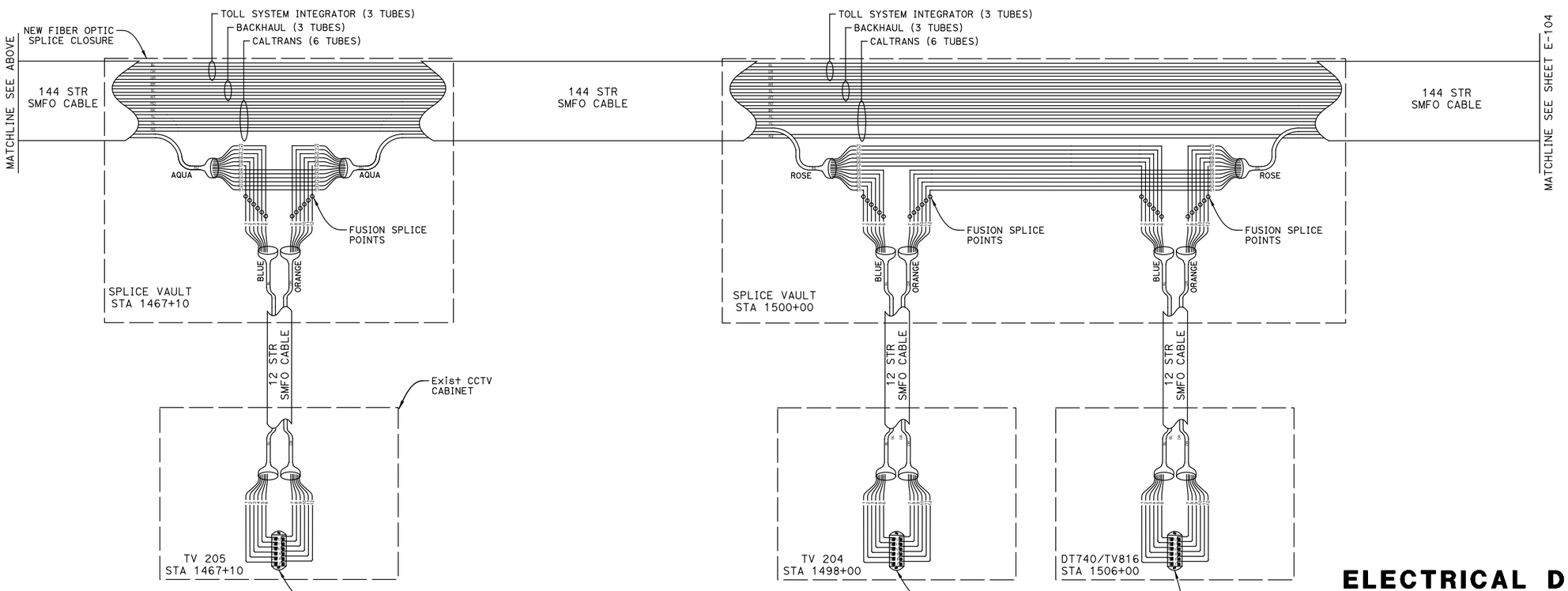
OAKLAND, CA 94607





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ELECTRICAL DETAILS
(TRUNKLINE SPLICE CABINET SPLICE DIAGRAM)

NO SCALE

E-103

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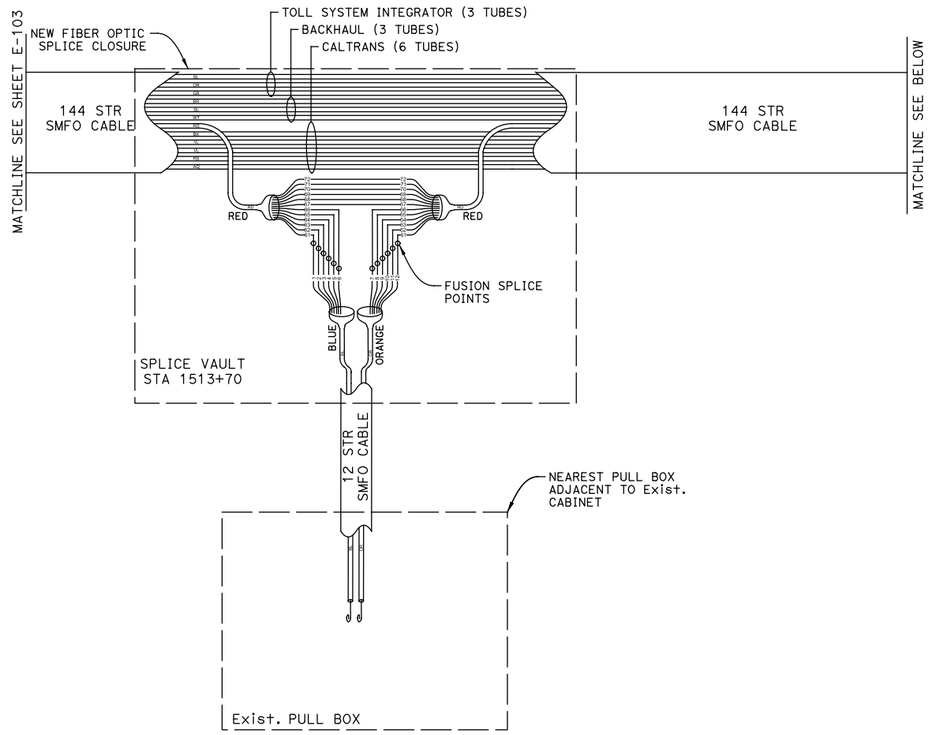

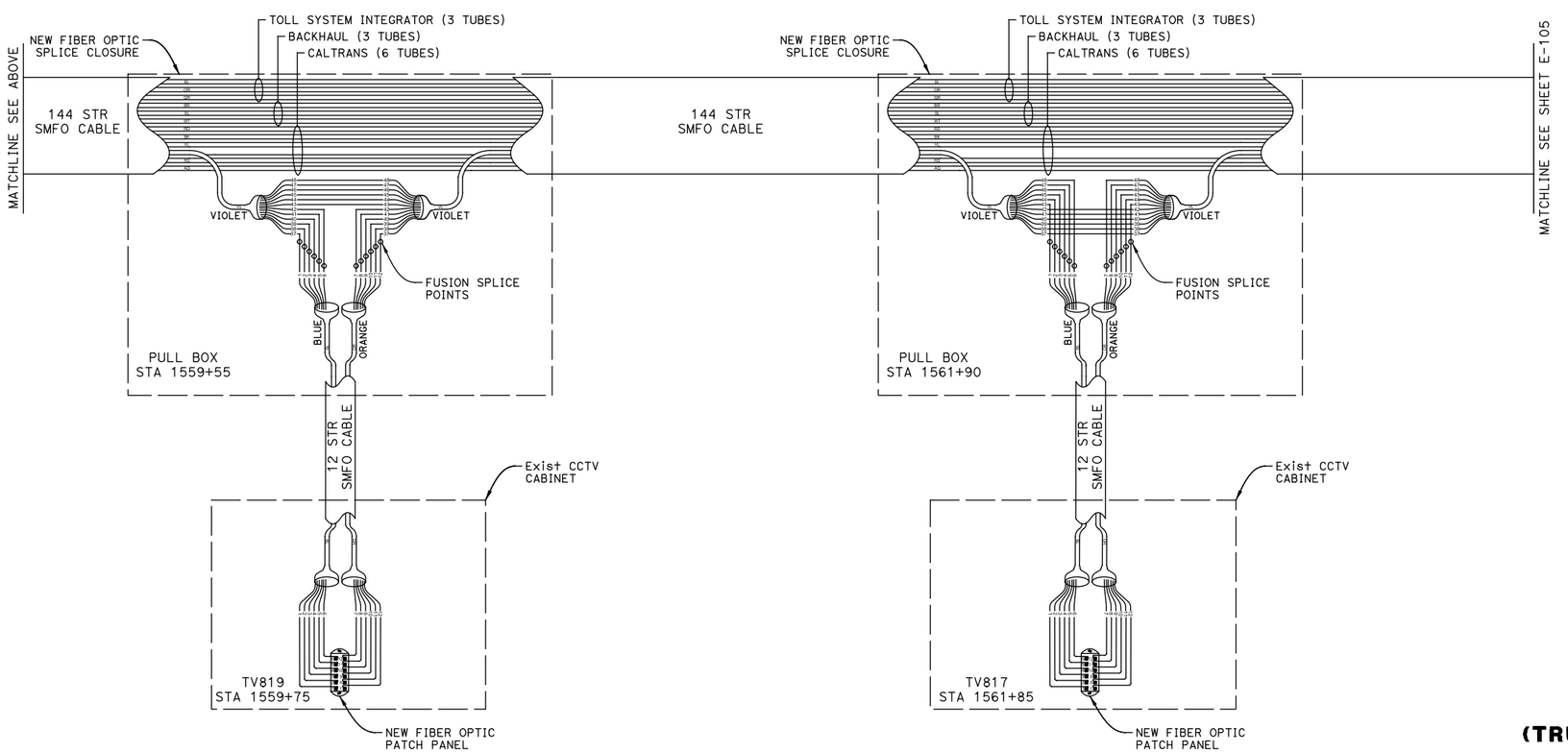

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ELECTRICAL DETAILS
(TRUNKLINE SPLICE CABINET SPLICE DIAGRAM)

NO SCALE

E-104

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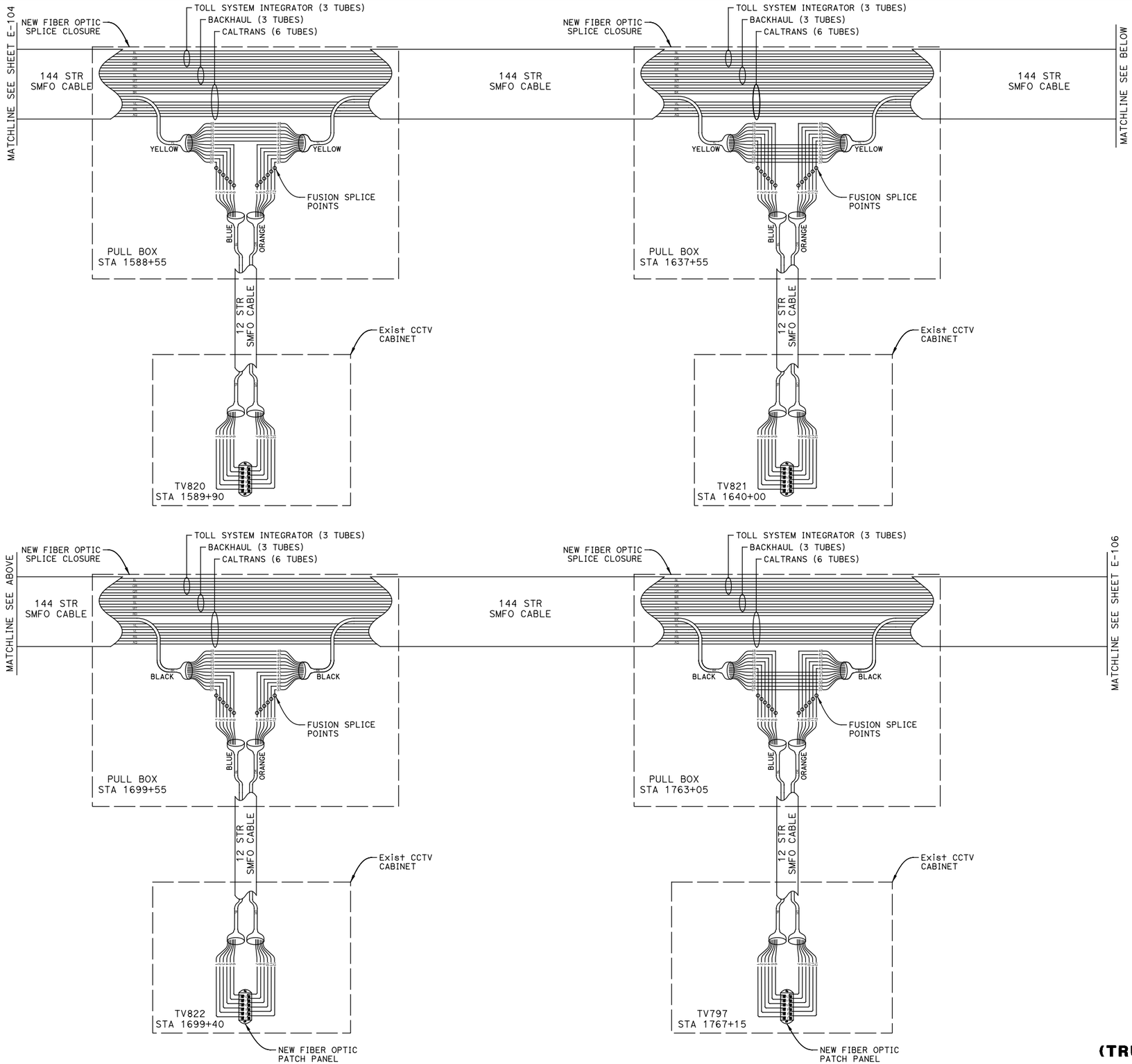

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ELECTRICAL DETAILS
(TRUNKLINE SPLICE CABINET SPLICE DIAGRAM)

NO SCALE

E-105

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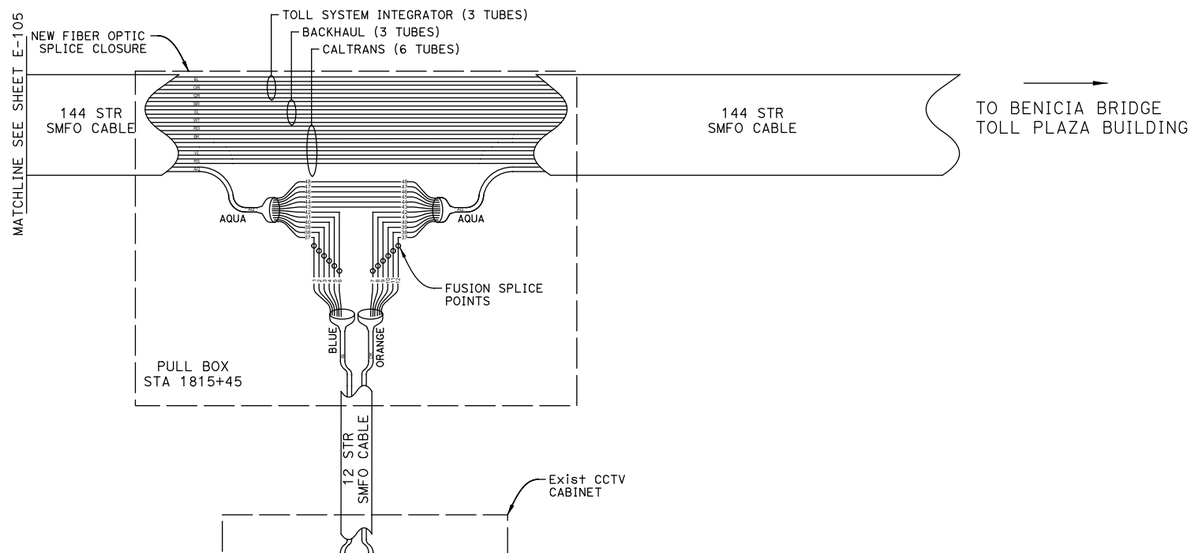

ELECTRICAL DETAILS
(TRUNKLINE SPLICE CABINET SPLICE DIAGRAM)

NO SCALE

E-106

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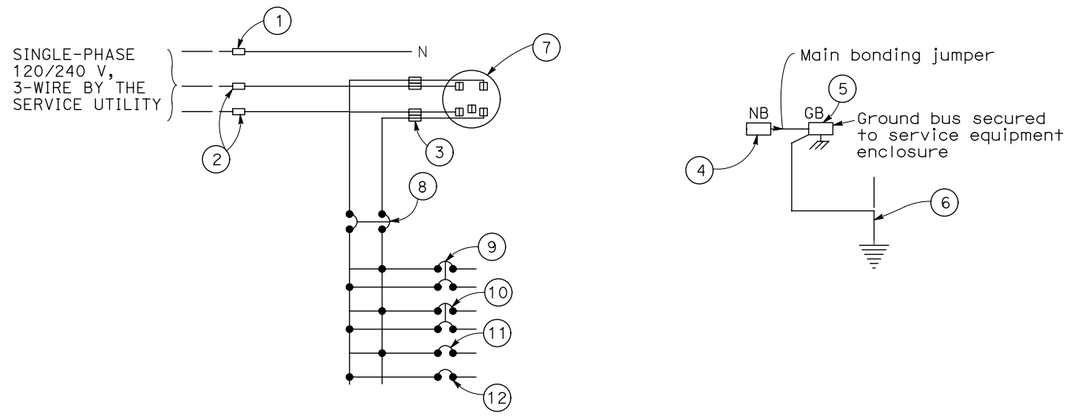

120/240 V SERVICE CABINET WIRING DIAGRAM (TYPICAL)

TYPE III-A SERVICE (120/240 V) EQUIPMENT LEGEND		
ITEM No.	COMPONENT	NAME PLATE DESCRIPTION
1	NEUTRAL LUG	
2	LANDING LUG (NOTE 4)	
3	TEST BYPASS FACILITY	
4	NEUTRAL BUS	
5	GROUND BUS	
6	GROUNDING ELECTRODE	
7	METER SOCKET AND SUPPORT	
8	100 A, 240 V, 2P, CB	MAIN BREAKER
9	60 A, 240 V, 2P, CB	BAIFA HUB CABINET
10	40 A, 240 V, 2P, CB	SPARE
11	20 A, 120 V, 1P, CB	SPARE
12	20 A, 120 V, 1P, CB	SPARE

NOTES: (FOR SERVICE EQUIPMENT ENCLOSURE)

1. VOLTAGE RATINGS OF SERVICE EQUIPMENT SHALL CONFORM TO THE SERVICE VOLTAGES INDICATED ON THE PLANS.
2. UNLESS OTHERWISE INDICATED ON THE PLANS, SERVICE EQUIPMENT ITEMS SHALL BE PROVIDED FOR EACH SERVICE EQUIPMENT ENCLOSURE AS SHOWN.
3. ITEMS No. 1 AND 3 SHALL BE ISOLATED FROM THE SERVICE EQUIPMENT ENCLOSURE.
4. THE LANDING LUG SHALL BE SUITABLE FOR MULTIPLE CONDUCTORS.

ELECTRICAL DETAILS
(SERVICE EQUIPMENT ENCLOSURE TYPICAL WIRING DIAGRAM)

NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

E-107

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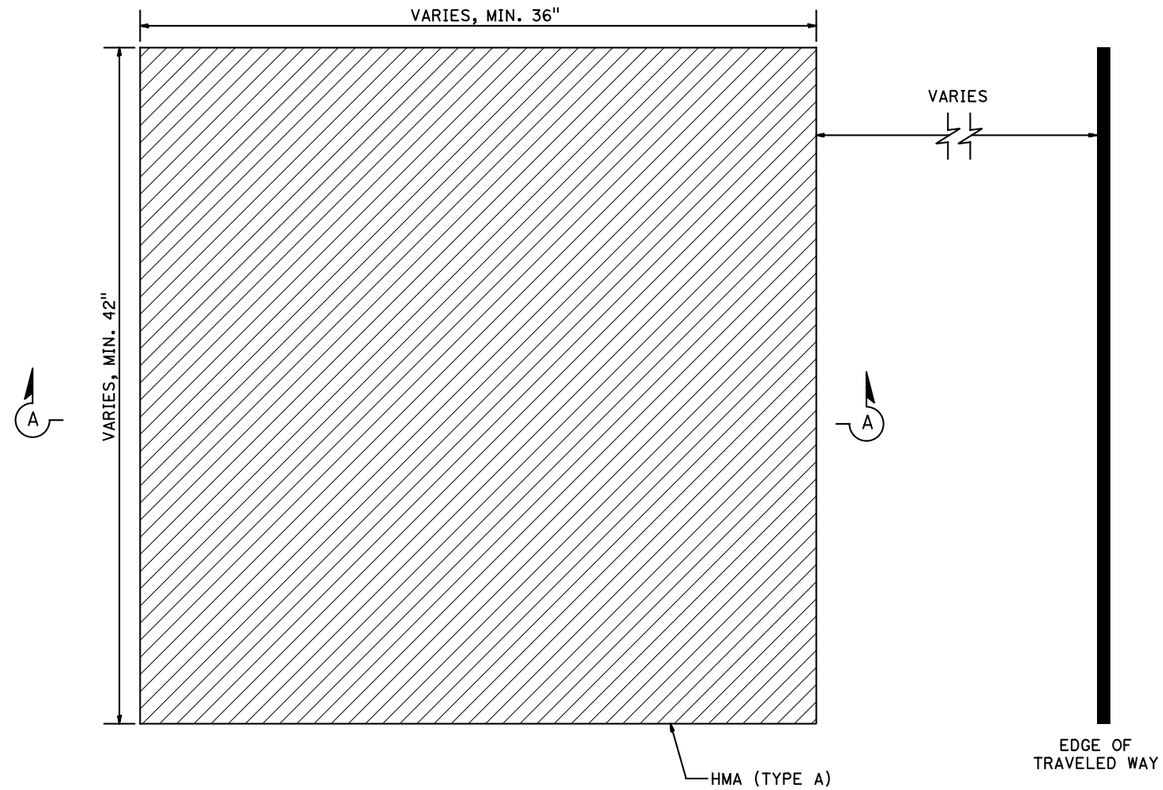
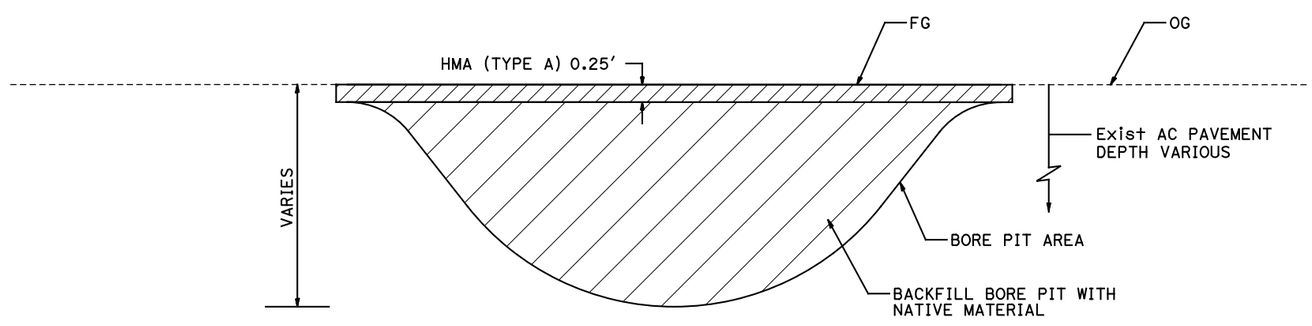
OAKLAND, CA 94607

NOTES:

1. BORE PITS SHALL ONLY BE USED AT LOCATIONS WHERE PULL BOXES OR FIBER SPLICE VAULTS ARE PROPOSED. ONCE ALL WORK HAS BEEN PROPERLY COMPLETED BACKFILL IN ACCORDANCE WITH DETAIL E-70 OR E-71.
2. BORE PIT SHALL BE BACKFILLED IN ACCORDANCE WITH THIS DETAIL WHEN EXCAVATED LOCATIONS CANNOT BE PROPERLY COMPLETED WITHIN THE SAME DAY.
3. PAVEMENT SURFACE SHALL SIT FLUSH WITH THE SURFACE OF THE EXISTING PAVEMENT.
4. NATIVE SOIL USED AS BACKFILL MUST BE FREE OF LOOSE AND EXTRANEOUS MATERIAL.
5. AGGREGATES MUST BE CLEAN AND FREE FROM DELETERIOUS SUBSTANCES.
6. COMPACT THE NATIVE SOIL AND HMA PAVEMENT TO 95 PERCENT RELATIVE COMPACTION. USE A PNEUMATIC TAMPER, PLATE COMPACTOR, OR EQUIVALENT TO ACHIEVE THOROUGH COMPACTION.
7. AGGREGATE GRADATION FOR HMA TYPE A SHALL BE ¾".
8. EXCAVATED MATERIAL SHALL BE PILED IN SUCH A MANNER THAT IT WILL NOT ENDANGER THE WORKERS, MOTORISTS, OR OBSTRUCT NATURAL WATERCOURSES.
9. PRIOR TO BACKFILLING BORE PIT, CONDUIT SHALL BE TEMPORARILY PLUGGED, CAPPED, OR OTHERWISE PROTECTED FROM THE ENTRANCE OF DUST, TRASH AND MOISTURE.



PLAN VIEW



SECTION A-A

CONSTRUCTION DETAILS
(BORE PIT BACKFILL)

NO SCALE

E-108

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CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

$PATH

LAST REVISION 00-00-00 | DATE PLOTTED => $DATE | TIME PLOTTED => $TIME

BORDER LAST REVISED 7/2/2010 | USERNAME => $USER | DGN FILE => $REQUEST | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0750 | PROJECT NUMBER & PHASE 04140004901