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 — XXXXX

INDEX OF PLANS

SHEET NO.	DESCRIPTION
1	TITLE SHEET AND LOCATION MAP
2-3	KEY MAP AND LINE INDEX
4-113	UTILITY PLANS
114	CONSTRUCTION AREA SIGNS
115	SIGN DETAILS
116	EROSION CONTROL LEGEND AND QUANTITIES
117-247	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

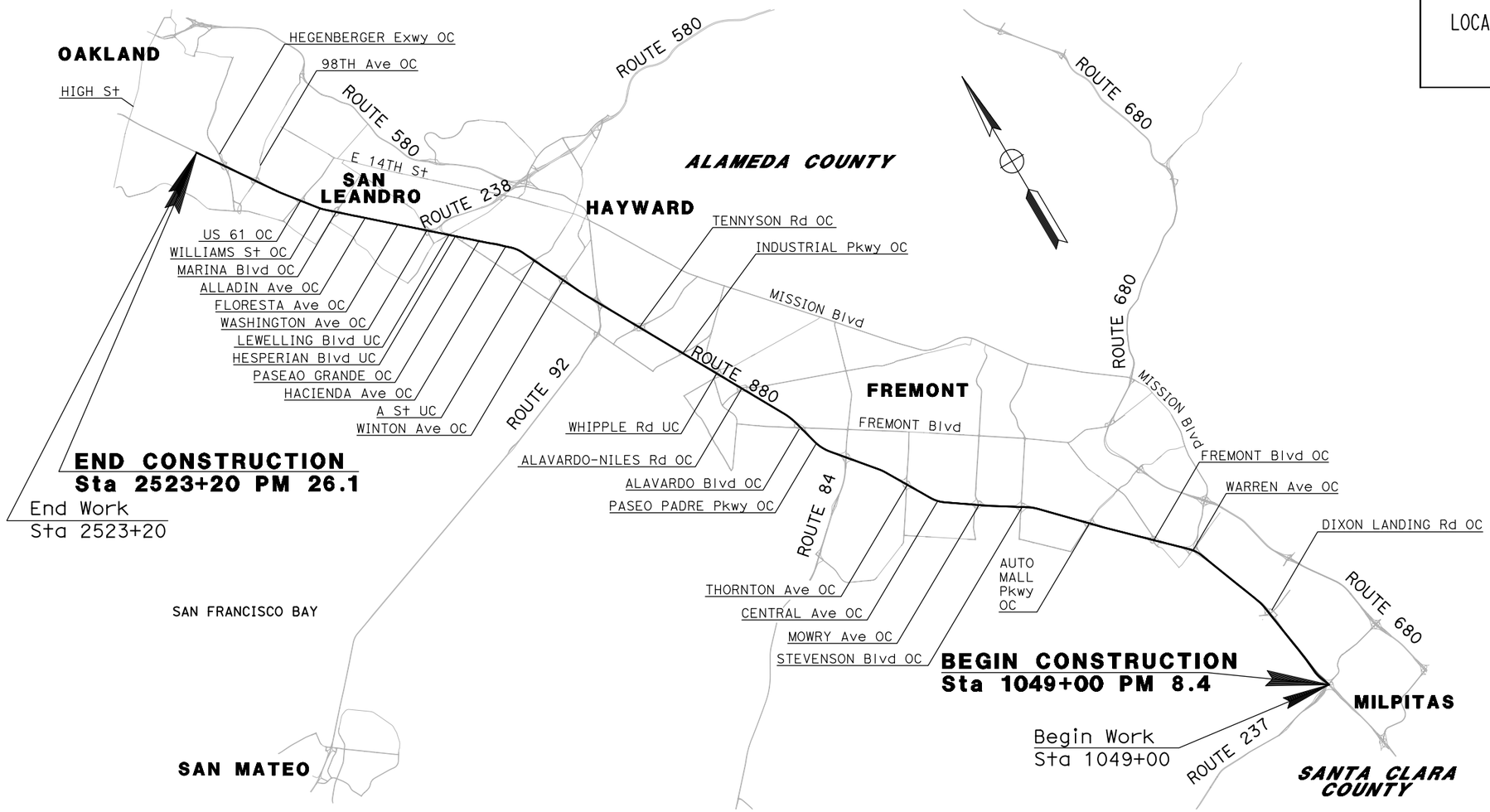
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN SANTA CLARA AND ALAMEDA COUNTIES ON ROUTE 880 FROM CALAVERAS BOULEVARD TO 0.6 MILES NORTH OF HEGENBERGER ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl, Ala Sol	880	8.4/10.5 0.00/26.1	XX	XX

LOCATION MAP



NO SCALE

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

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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OAKLAND, CA 94607

CONTRACT No.	XX-XXXX
PROJECT ID	XXXXXXXX

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

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl, Alc Scl	880	8.4/10.5 0.0/26.1	2	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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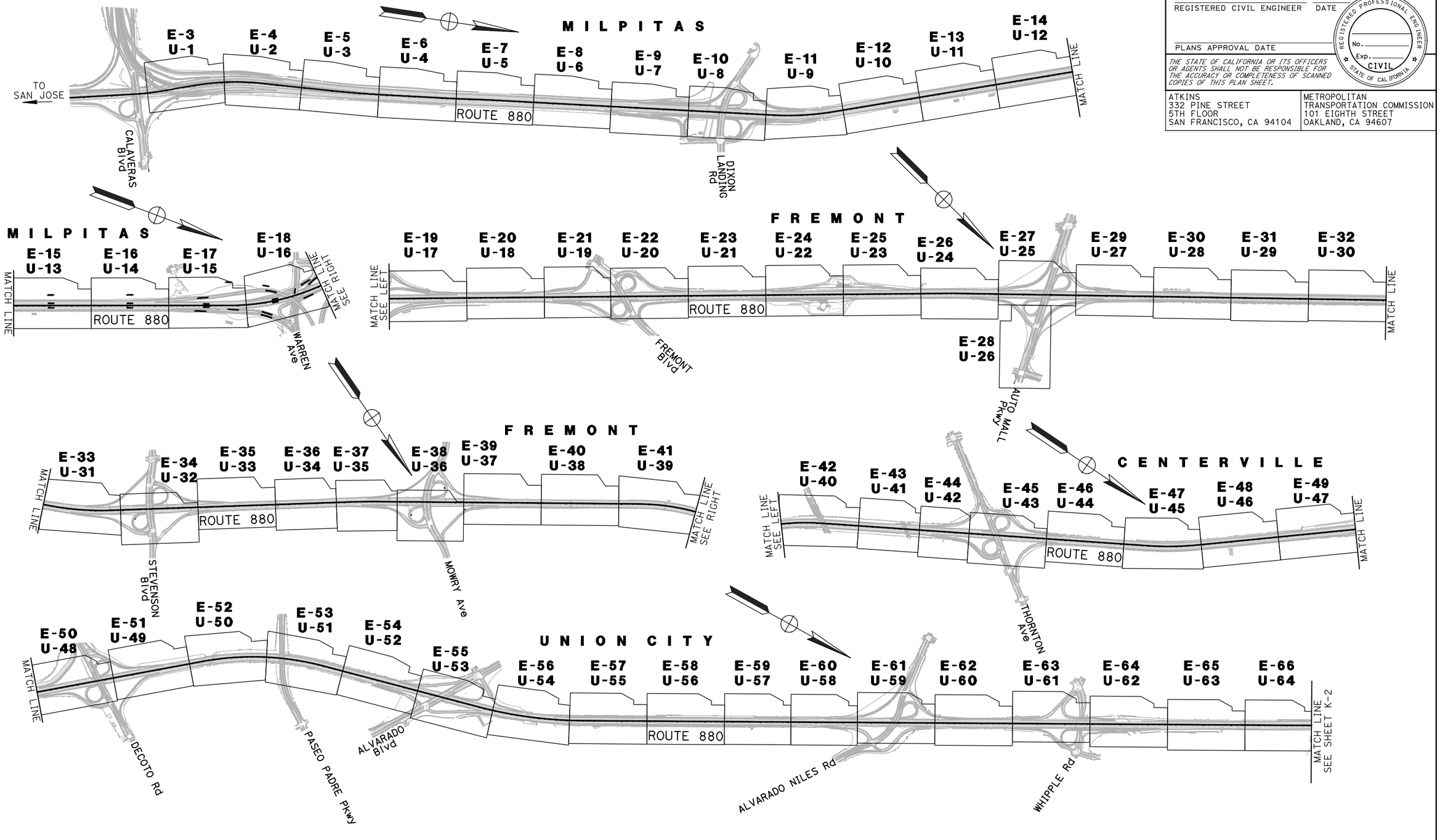

KEY MAP AND LINE INDEX

NO SCALE

K-1

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 6:43:36 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl, Ala Sol	880	8.4/10.5 0.0/26.1	3	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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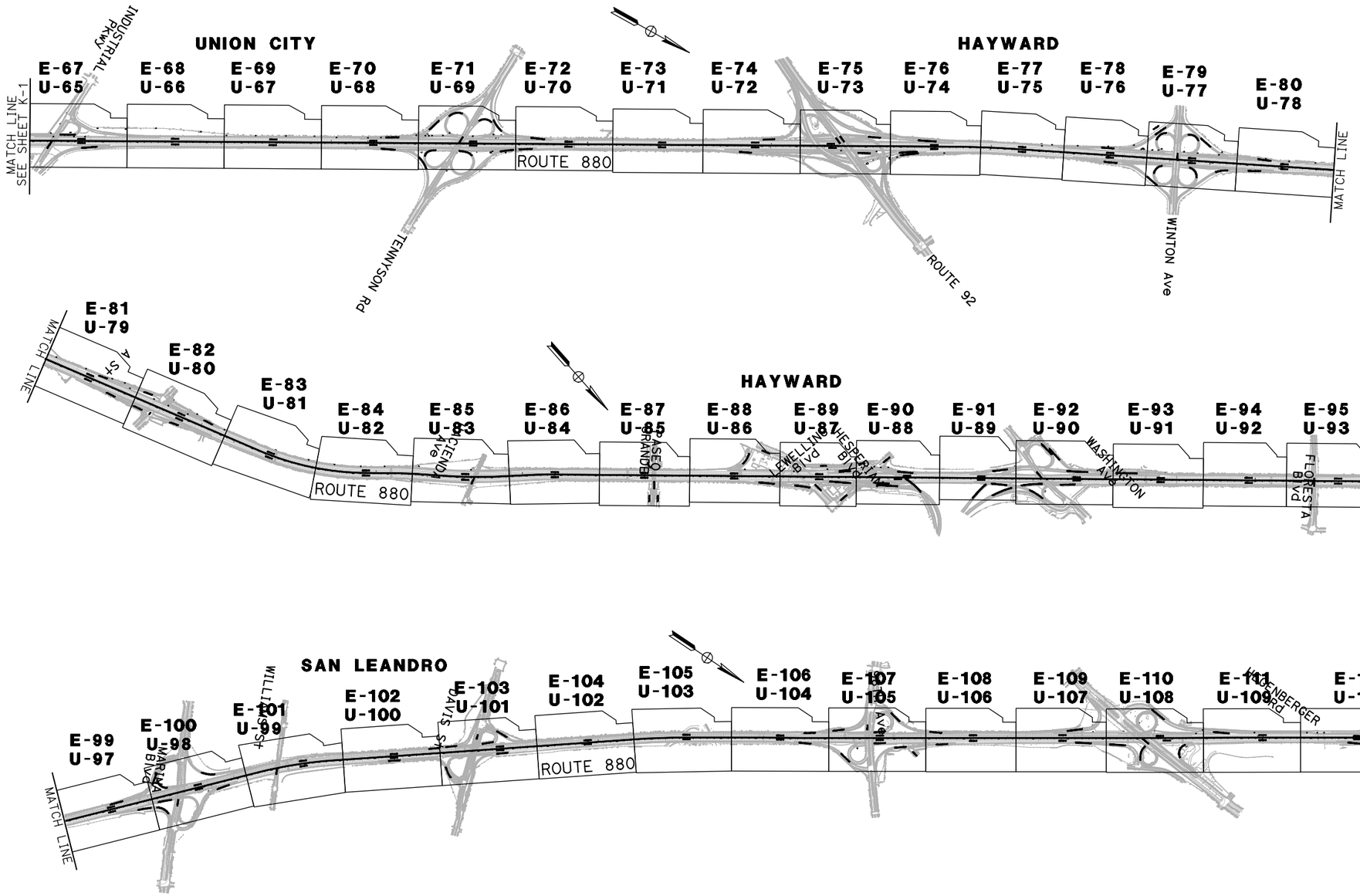

KEY MAP AND LINE INDEX

NO SCALE

K-2

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BORDER LAST REVISED 10/4/2013

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DGN FILE => da002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT XXXX

PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

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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.
5. UTILITY OWNERSHIP ON THE PROJECT:

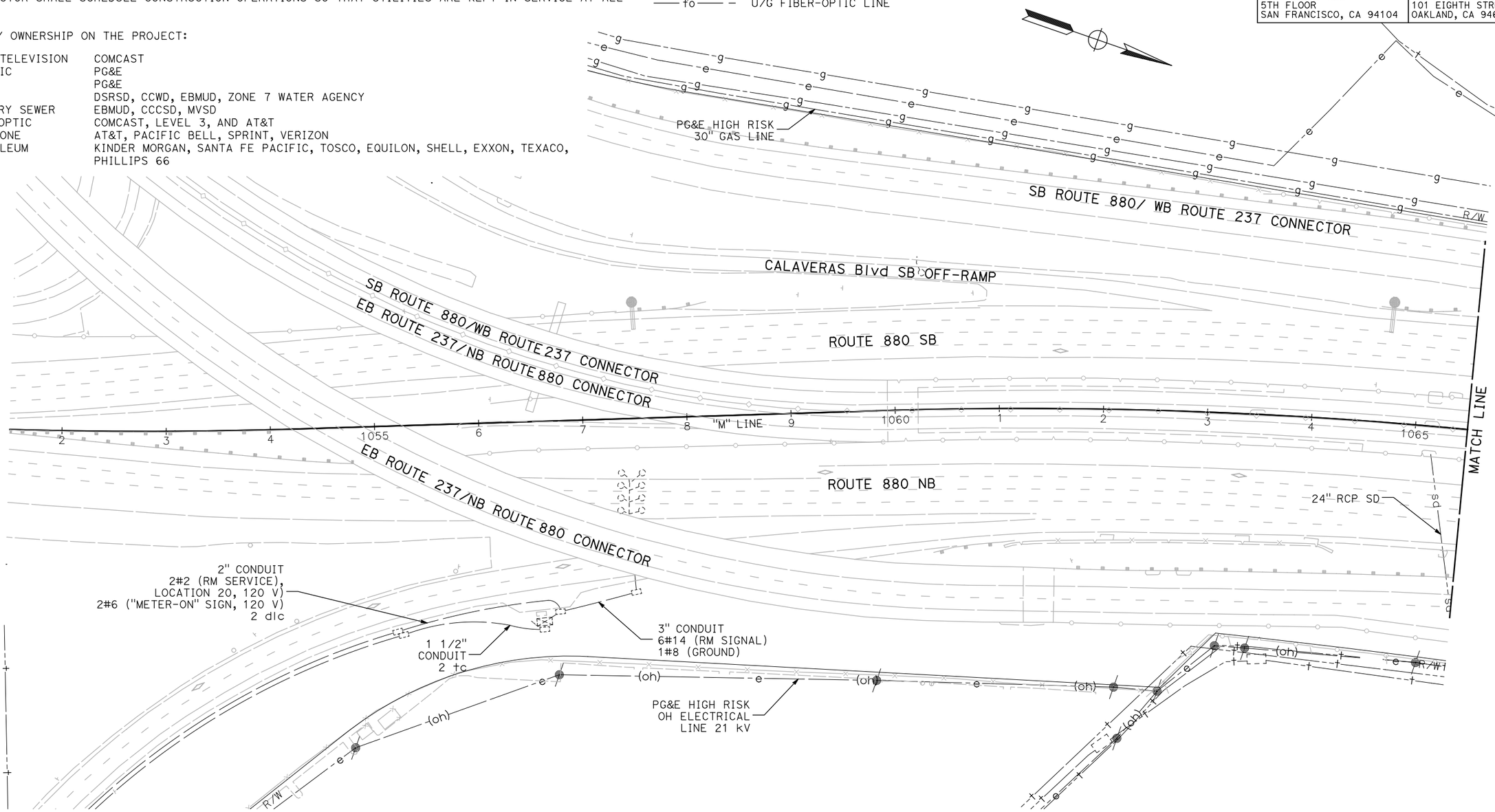
CABLE TELEVISION	COMCAST
ELECTRIC	PG&E
GAS	PG&E
WATER	DSRSD, CCWD, EBMUD, ZONE 7 WATER AGENCY
SANITARY SEWER	EBMUD, CCCSD, MVSD
FIBER OPTIC	COMCAST, LEVEL 3, AND AT&T
TELEPHONE	AT&T, PACIFIC BELL, SPRINT, VERIZON
PETROLLEUM	KINDER MORGAN, SANTA FE PACIFIC, TOSCO, EQUILON, SHELL, EXXON, TEXACO, PHILLIPS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

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
FO	FIBER OPTIC
HPG	HIGH PRESSURE GAS
JT	JOINT TRENCH
kV	KILOVOLT
PG&E	PACIFIC GAS & ELECTRIC COMPANY
STL	STEEL
TV	TELEVISION



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-1

REVISED BY | DATE REVISED
ARON ZEREZGHI | NATHAN COPE
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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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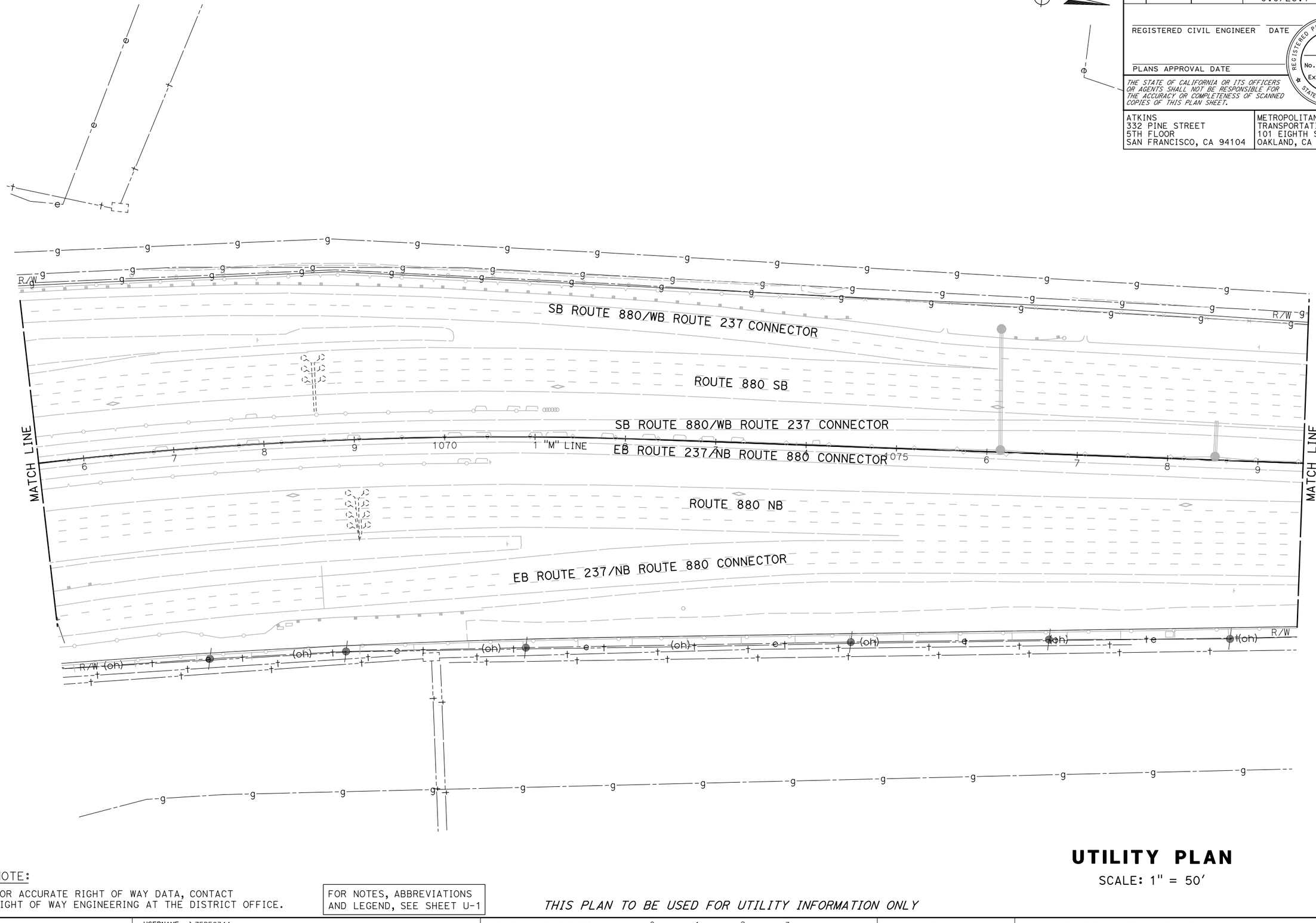
OAKLAND, CA 94607



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-2

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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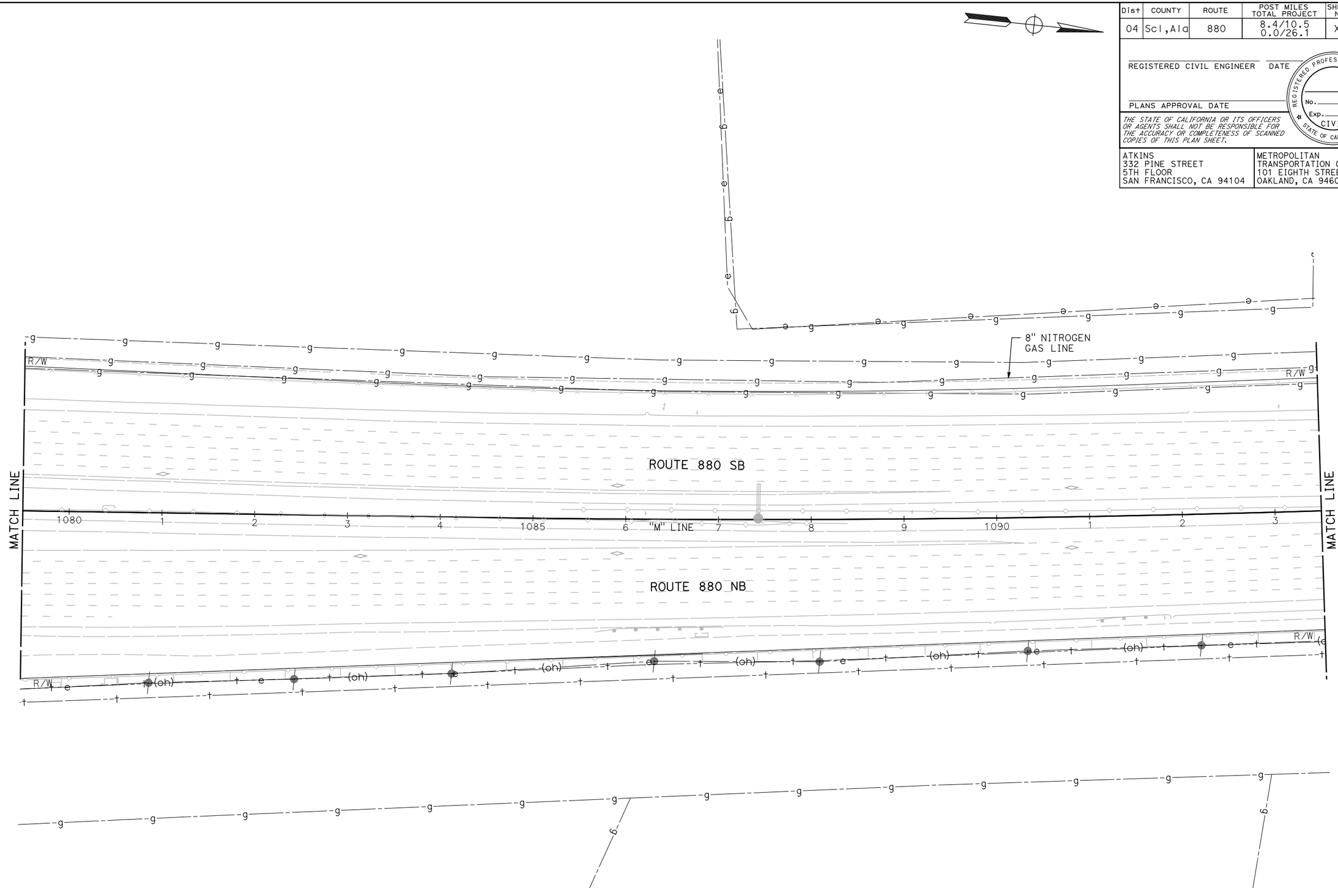

NOTE:

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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-3

REVISED BY	DATE REVISED

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

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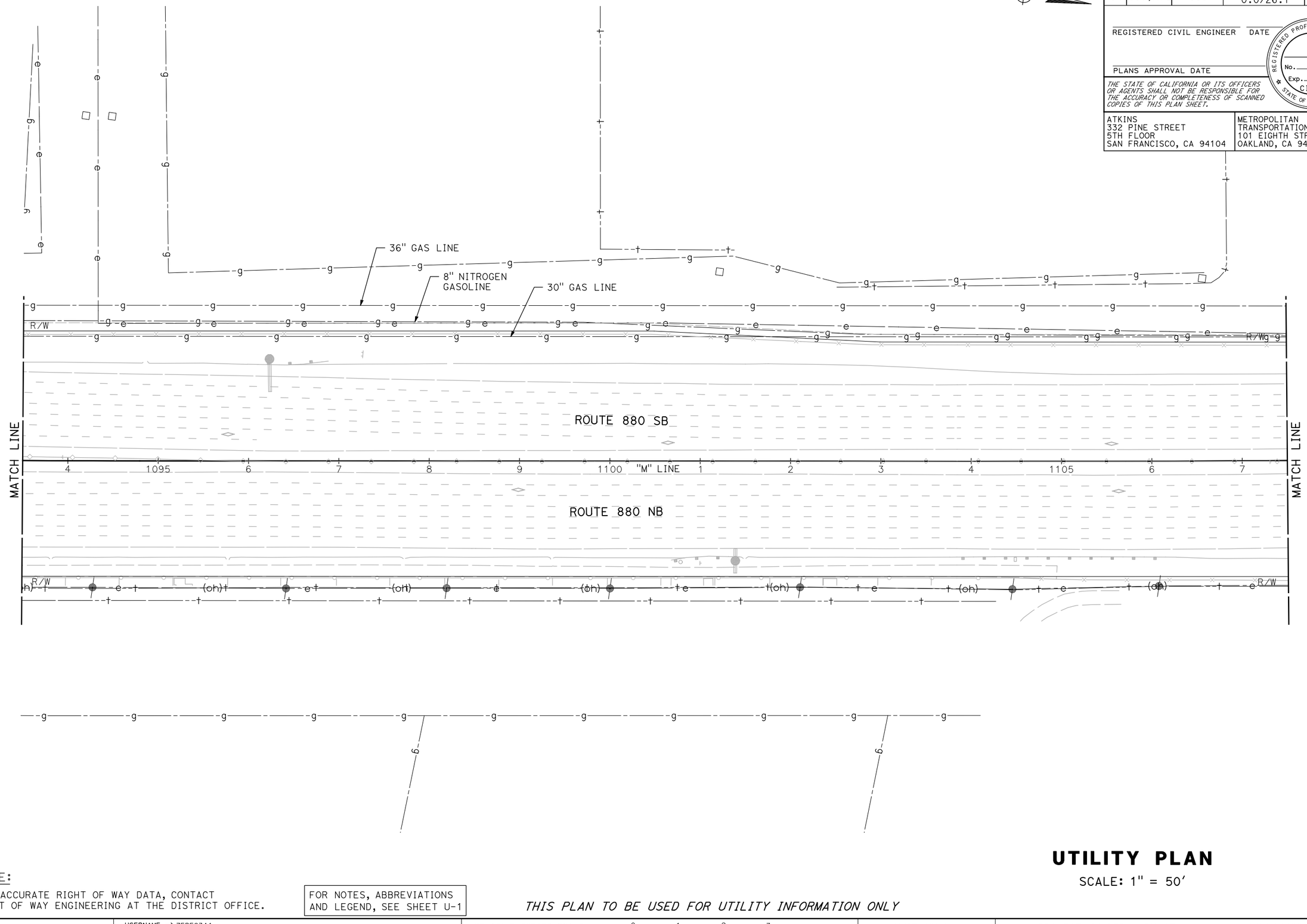

NOTE:

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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-4

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NATHAN COPE		

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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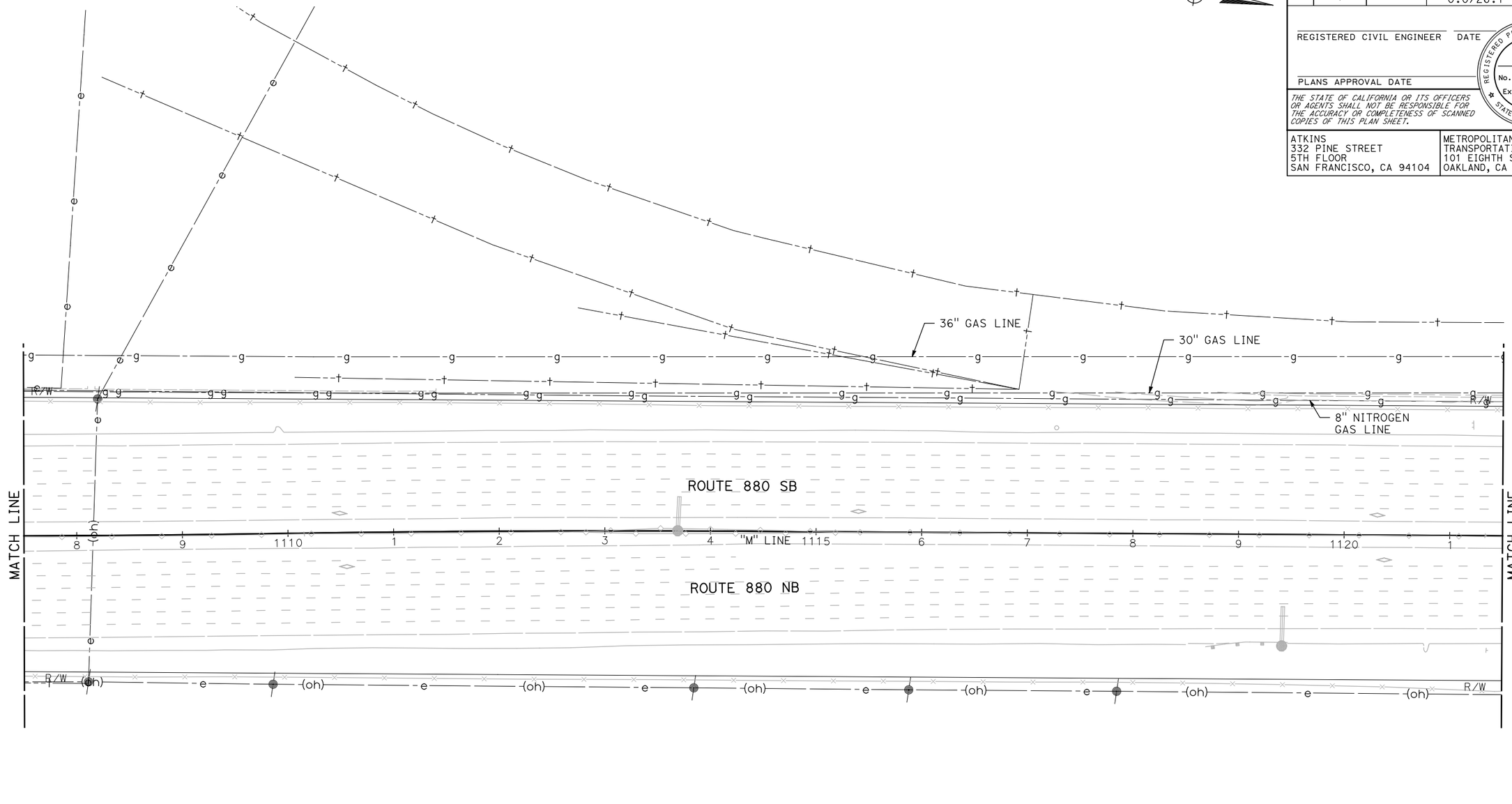

UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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U-5

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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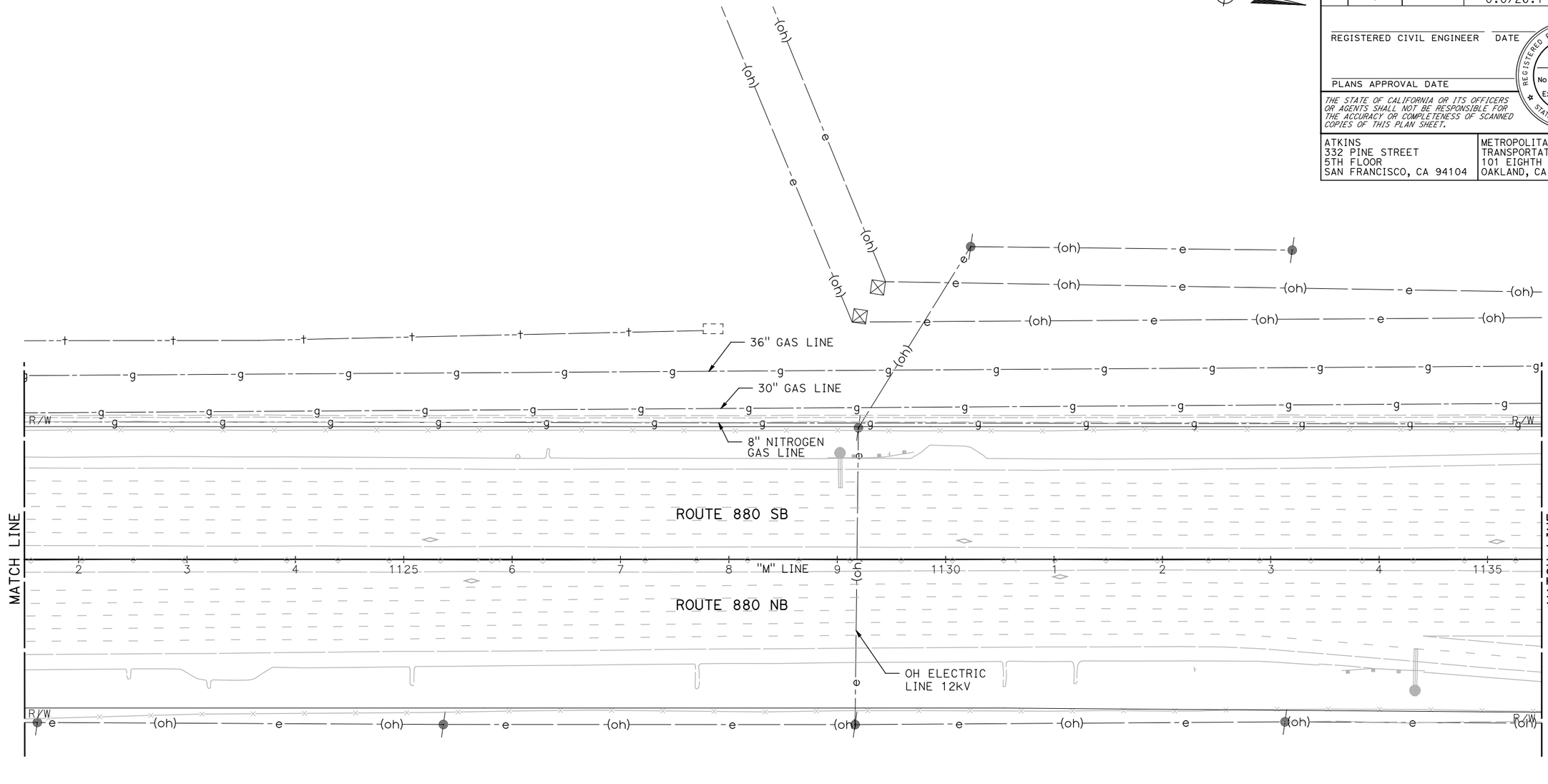

NOTE:

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

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UTILITY PLAN

SCALE: 1" = 50'

U-6

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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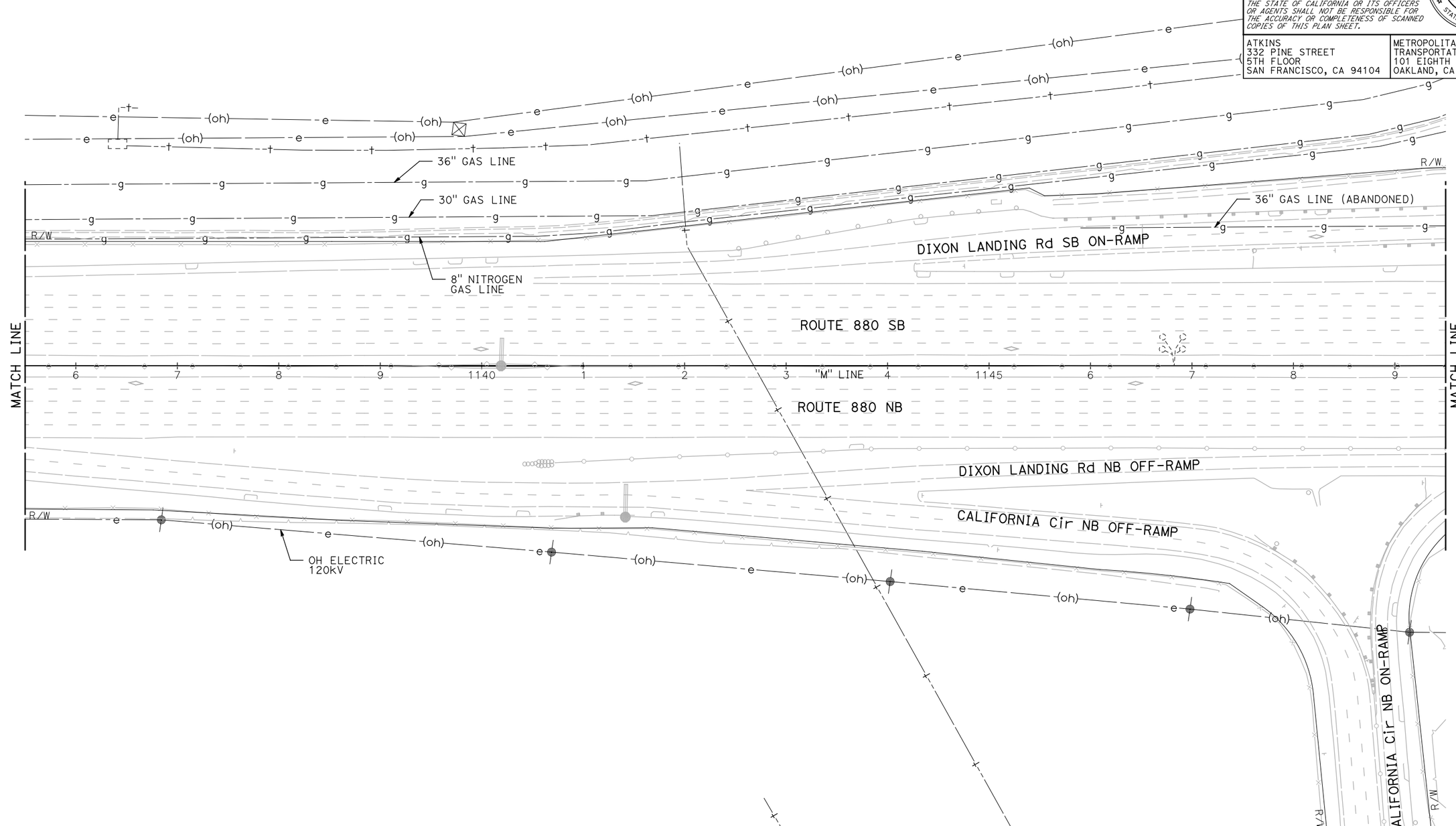

UTILITY PLAN

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-7

REVISED BY | DATE REVISED

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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101 EIGHTH STREET
OAKLAND, CA 94607

36" GAS LINE

30" GAS LINE

8" NITROGEN GAS LINE

R/W

DIXON LANDING Rd SB ON-RAMP

DIXON LANDING Rd SB OFF-RAMP

DIXON LANDING Rd

UG TELEPHONE

6" GAS MAIN

ROUTE 880 SB

ROUTE 880 NB

MATCH LINE

1150 1 2 3 4 1155 6 7 "M" LINE 8 9 1160 1 2 3

DIXON LANDING Rd NB ON-RAMP

DIXON LANDING Rd NB

DIXON LANDING NB ON-RAMP

OH ELECTRIC 120kV

(oh) e

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-8

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CALCULATED-DESIGNED BY | CHECKED BY

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

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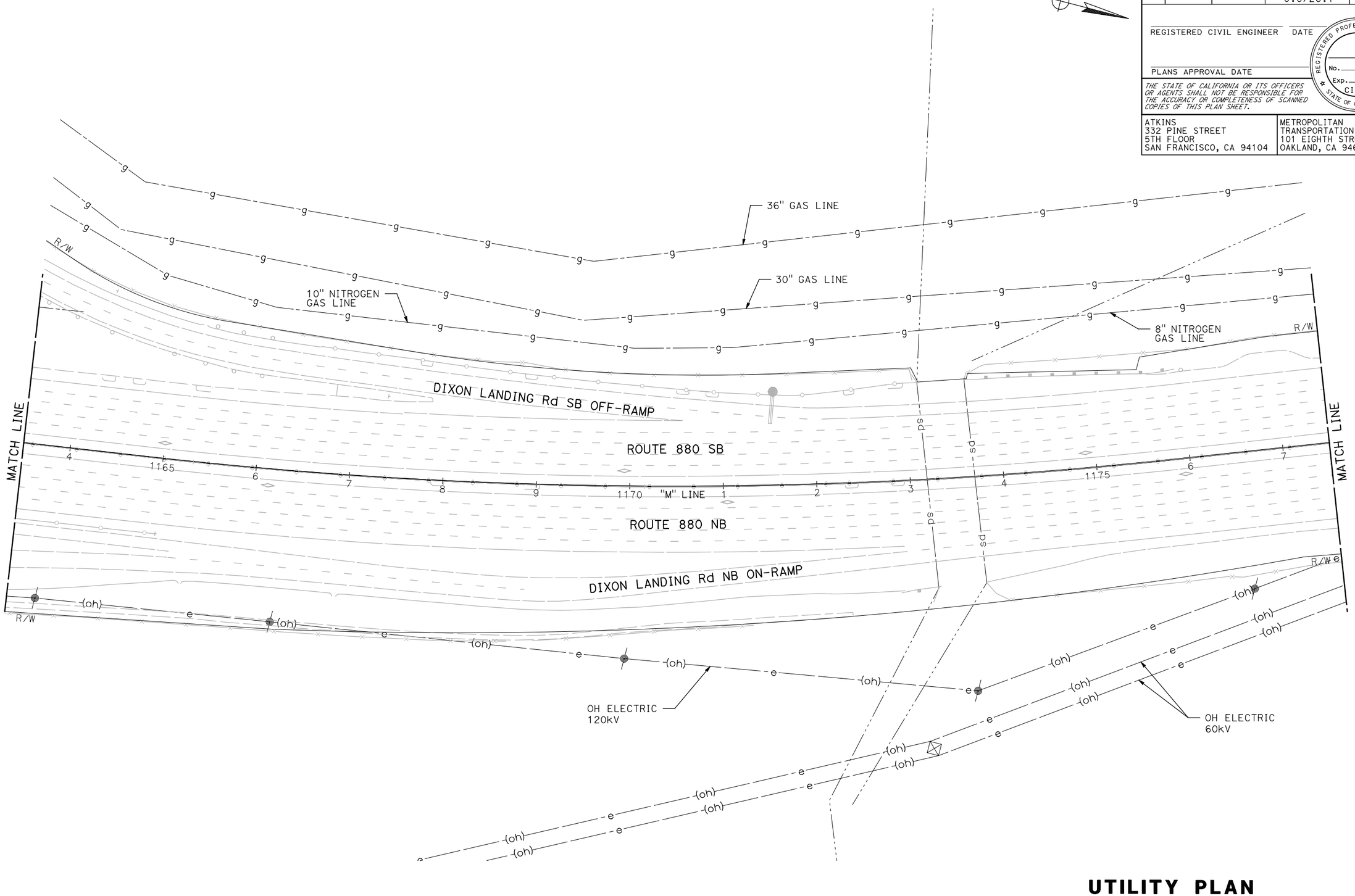
OAKLAND, CA 94607



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

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-9

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ka010.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:02:38 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka010.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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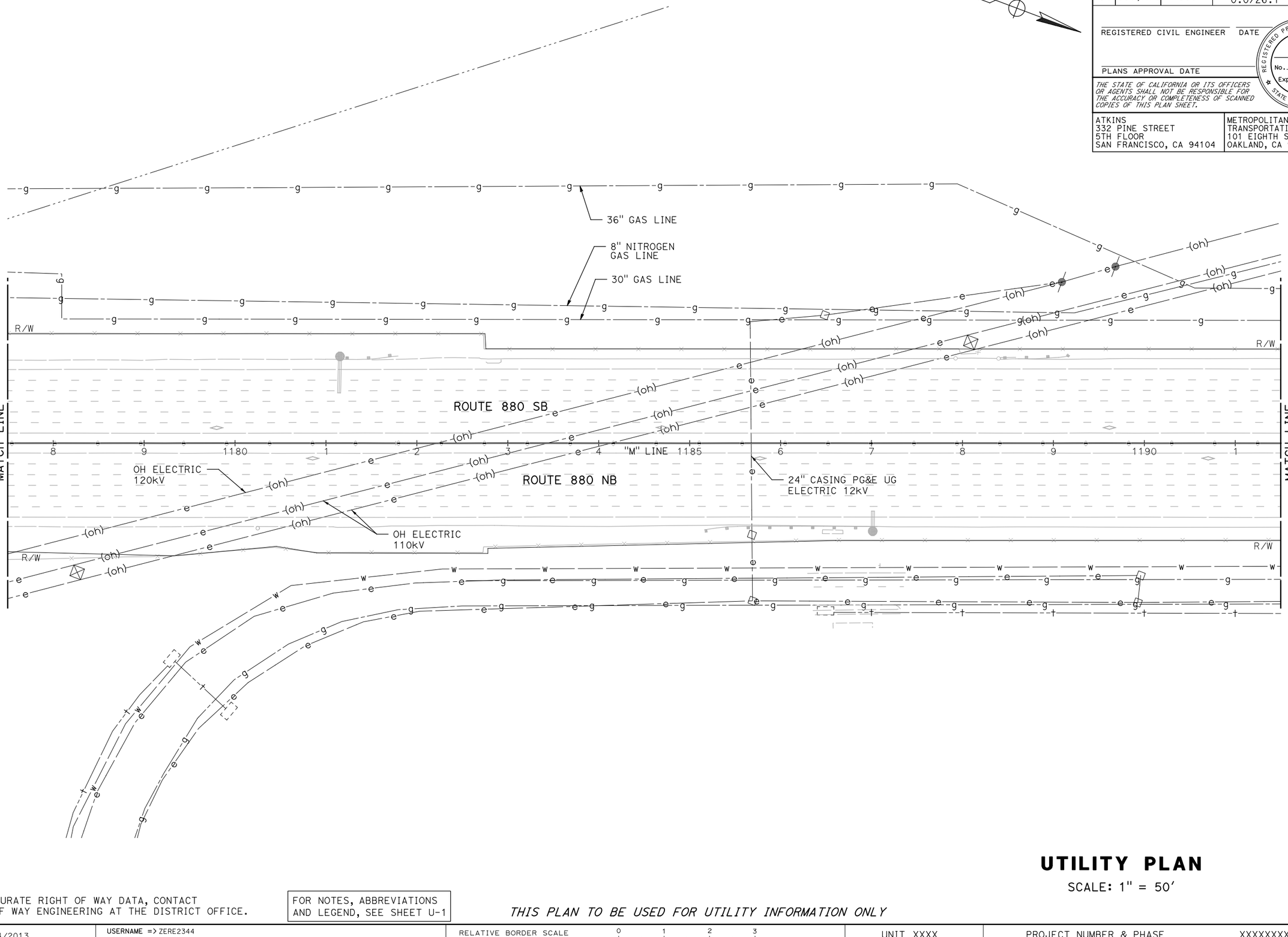
5TH FLOOR
SAN FRANCISCO, CA 94104

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-10

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 => 5/24/2015
TIME PLOTTED => 7:04:15 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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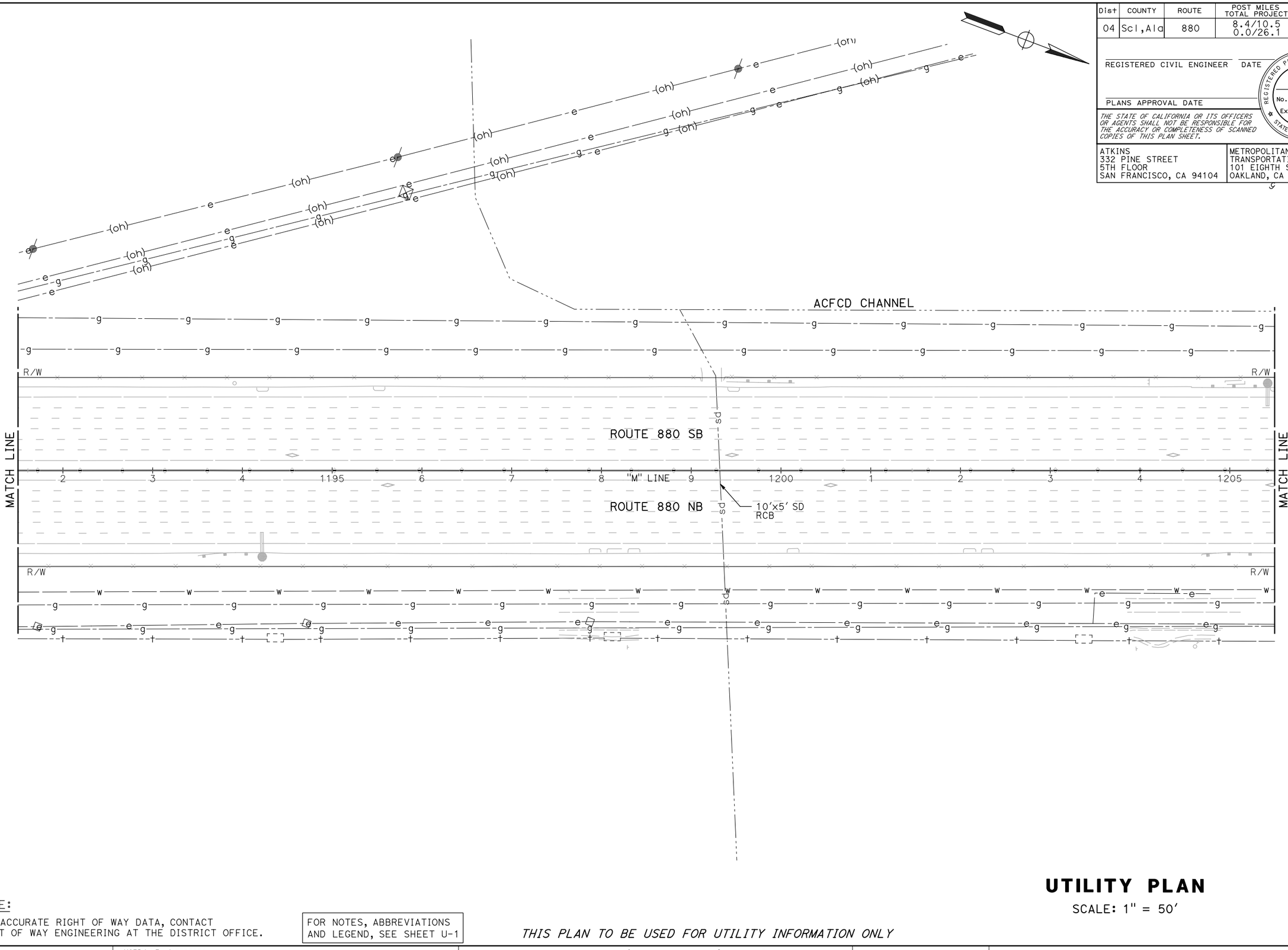
5TH FLOOR
SAN FRANCISCO, CA 94104

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-11

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI
CHECKED BY: NATHAN COPE
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ka012.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:05:52 PM

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ka012.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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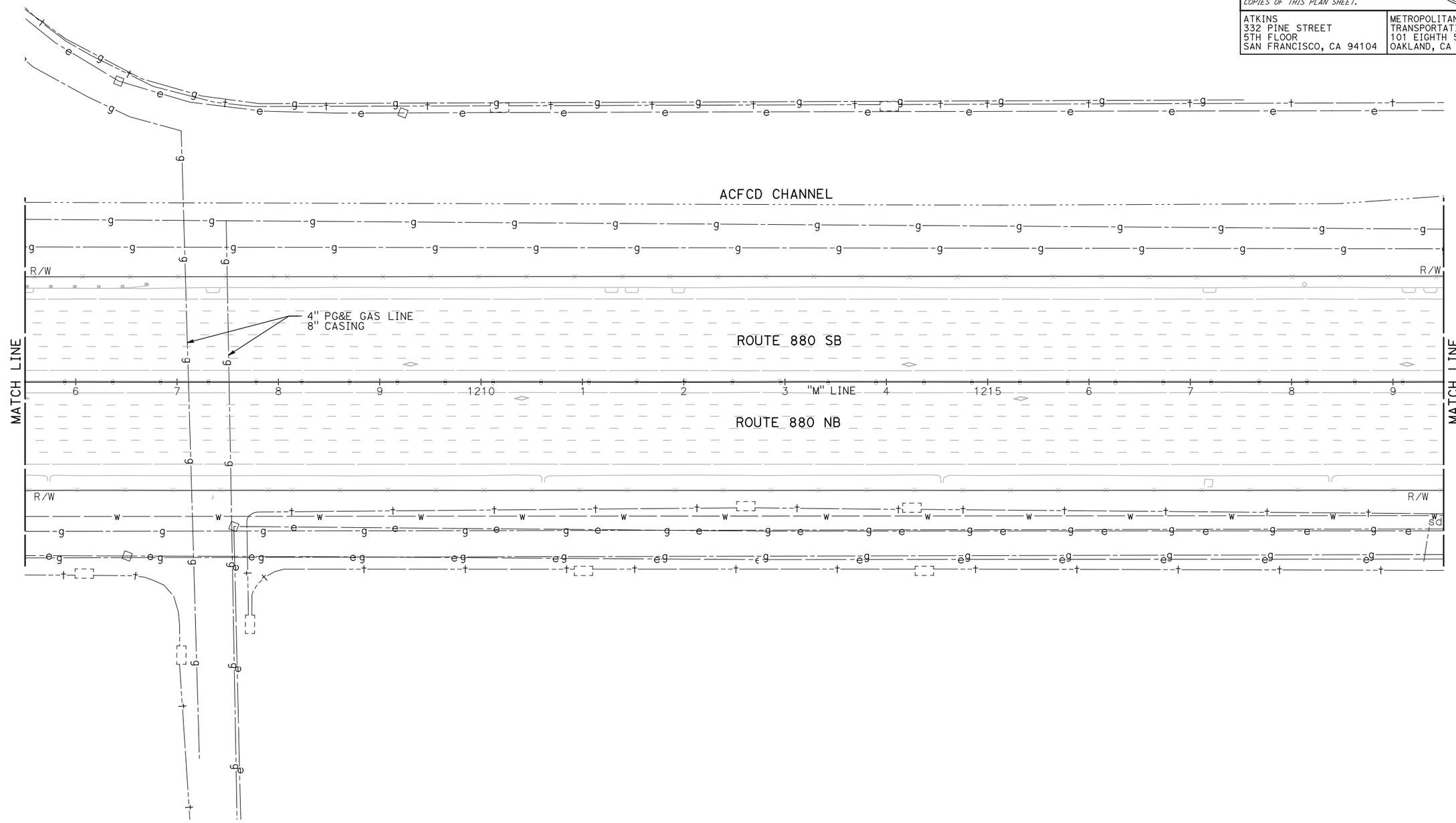
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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-12

REVISED BY | DATE REVISED
ARON ZEREZGHI | NATHAN COPE
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ka013.dgn

LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 7:07:29 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka013.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
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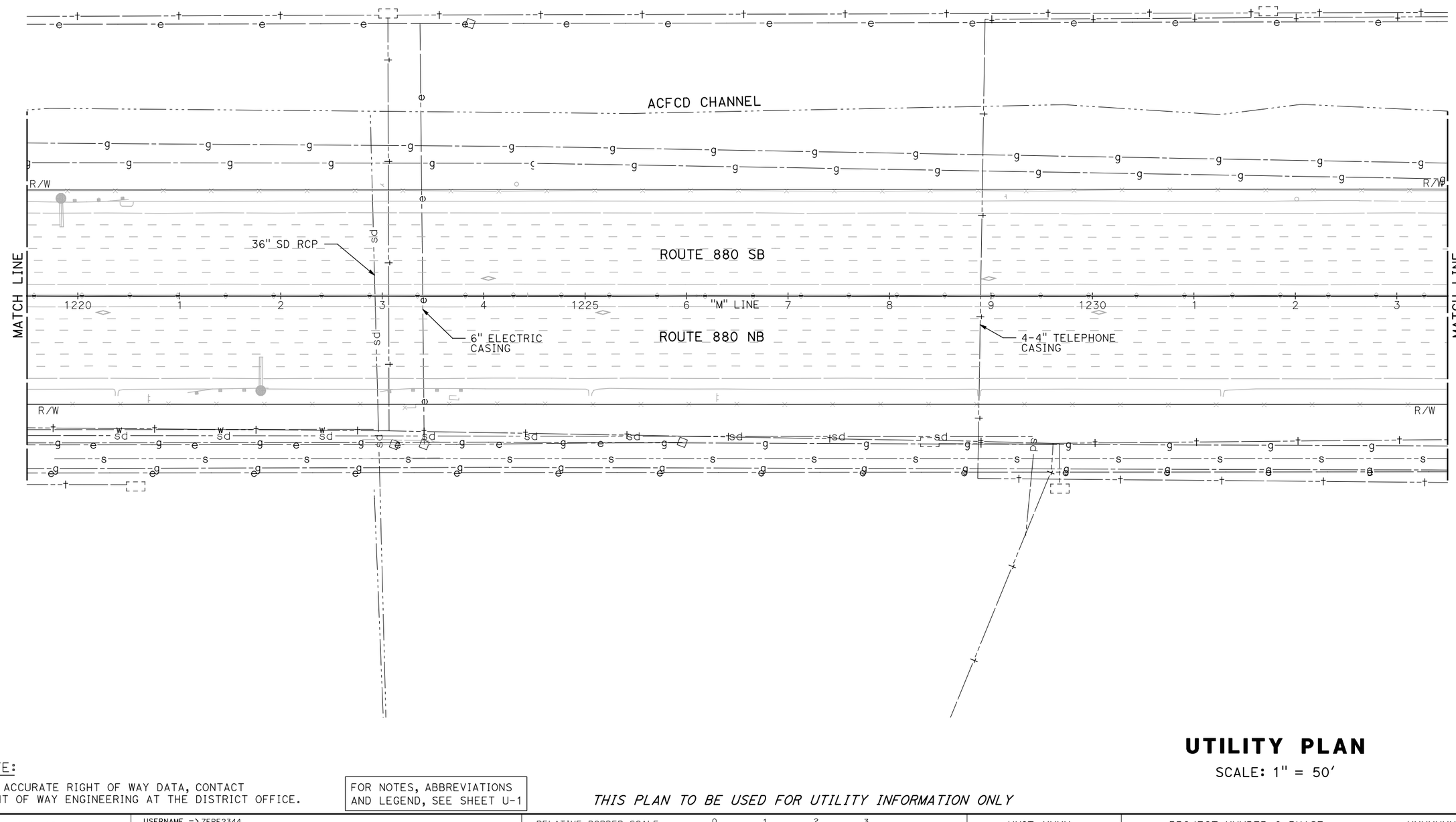
101 EIGHTH STREET
OAKLAND, CA 94607



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-13

REVISED BY | DATE REVISED

ARON ZEREZGHI | NATHAN COPE

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 7:09:03 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka014.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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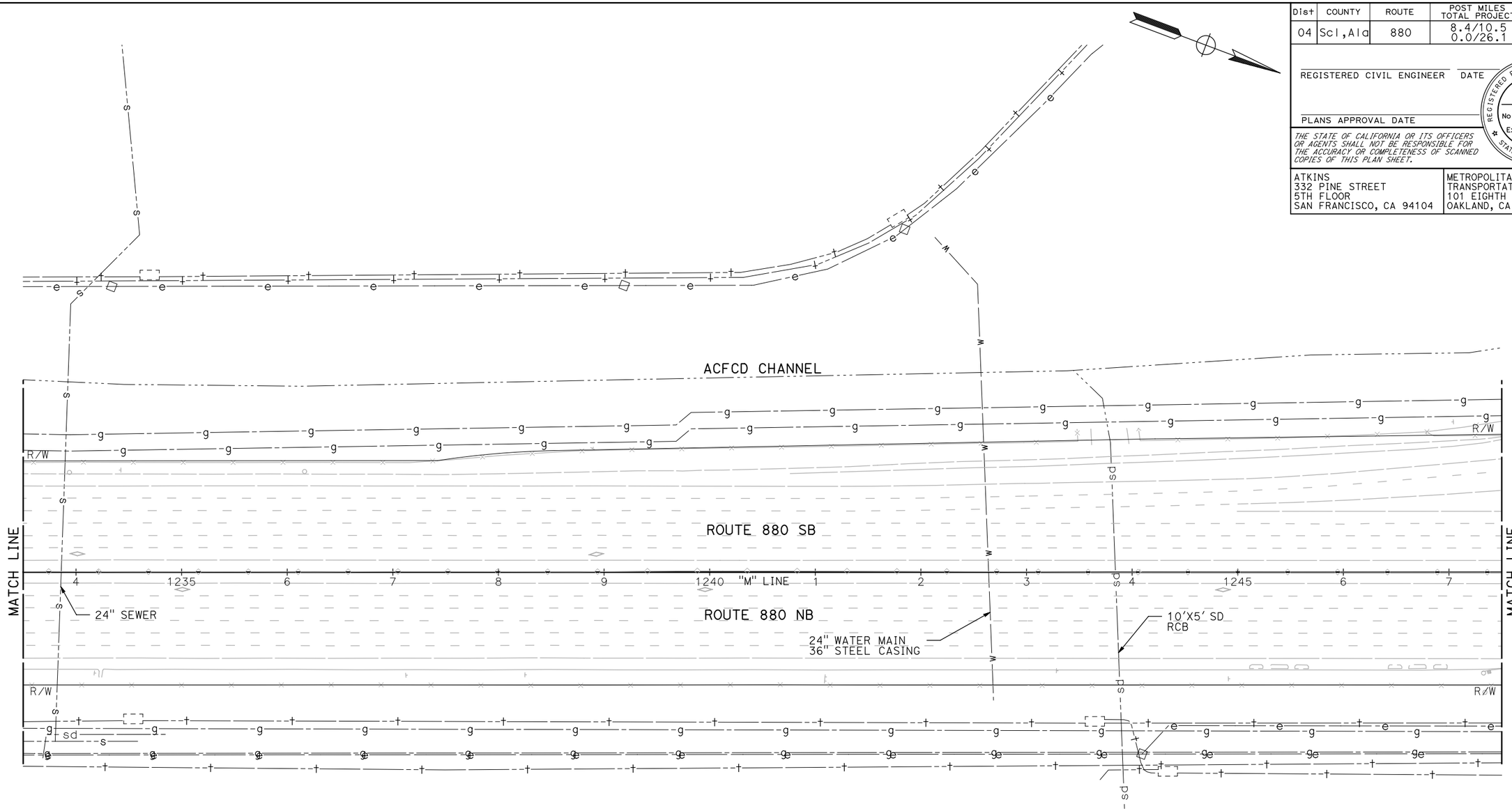
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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-14

REVISED BY	DATE REVISED

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

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Caltrans

c:\pw_work\dfknacc01\zere2344\dms01003\ka015.dgn

LAST REVISION
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:10:45 PM
00-00-00

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka015.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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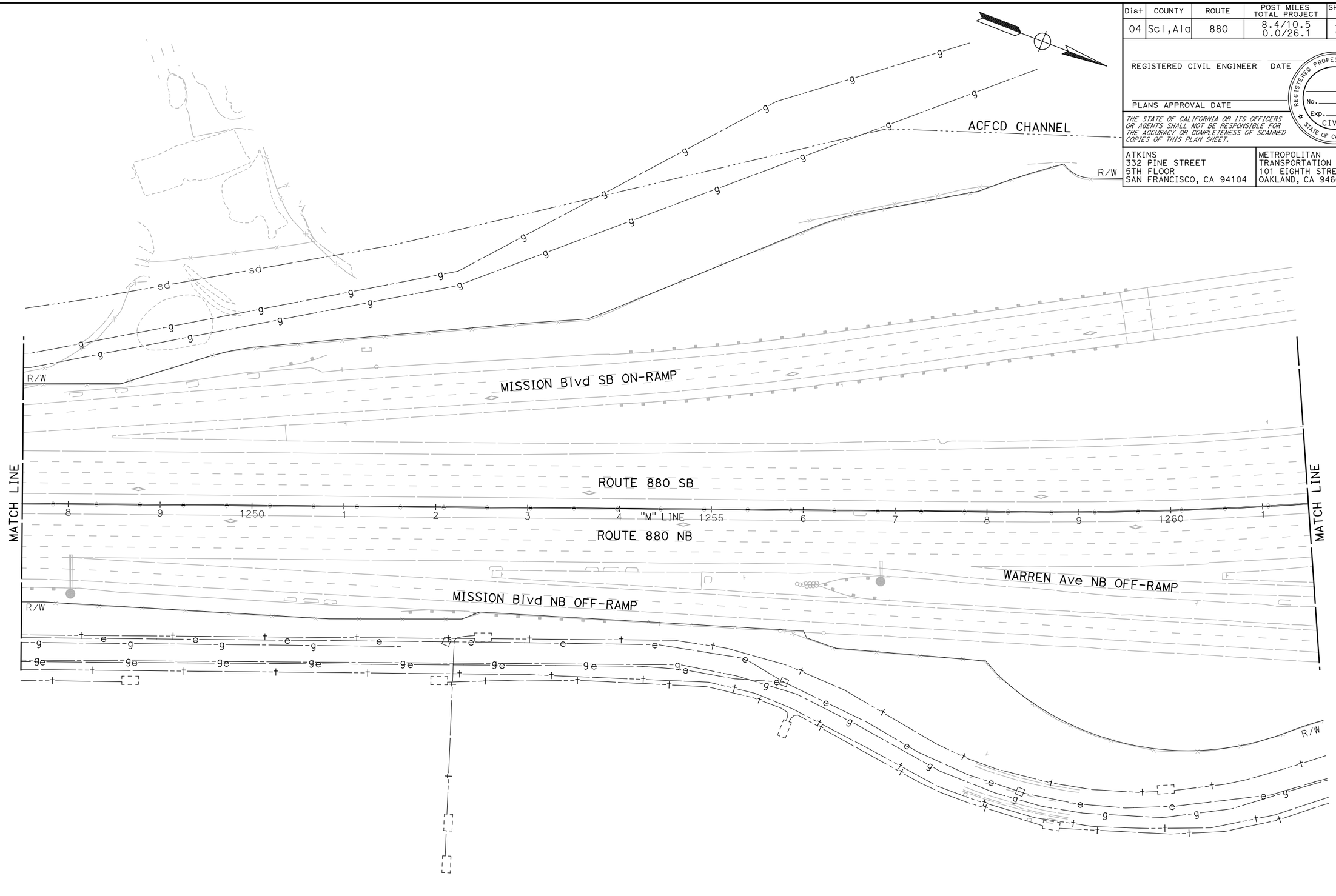
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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

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U-15

REVISED BY | DATE REVISED

ARON ZEREZGHI | NATHAN COPE

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 7:12:23 PM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka016.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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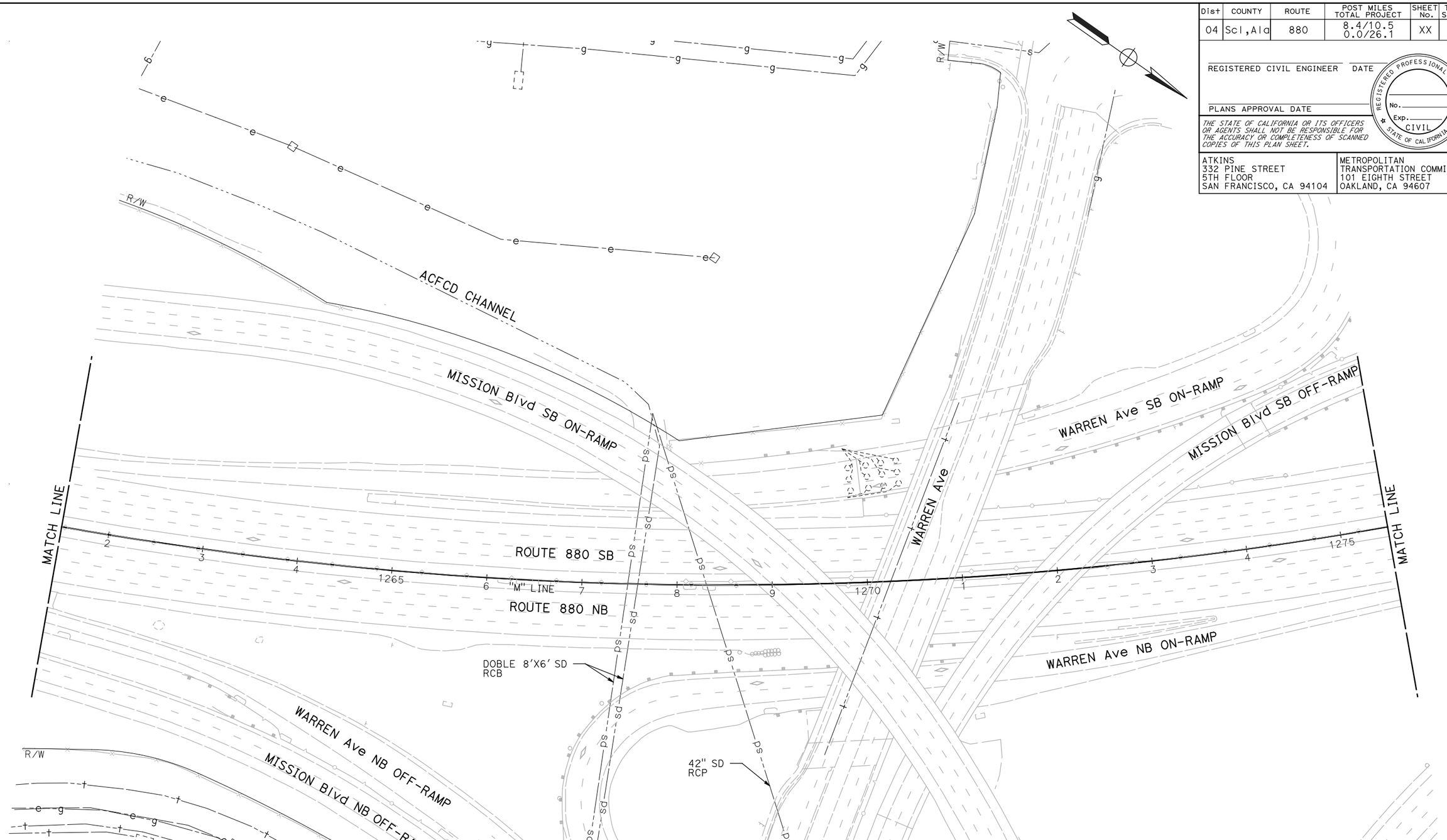
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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-16

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI
CHECKED BY: NATHAN COPE
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:14:04 PM

c:\pw_work\atknaca01\zere2344\dms01003\ka017.dgn

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka017.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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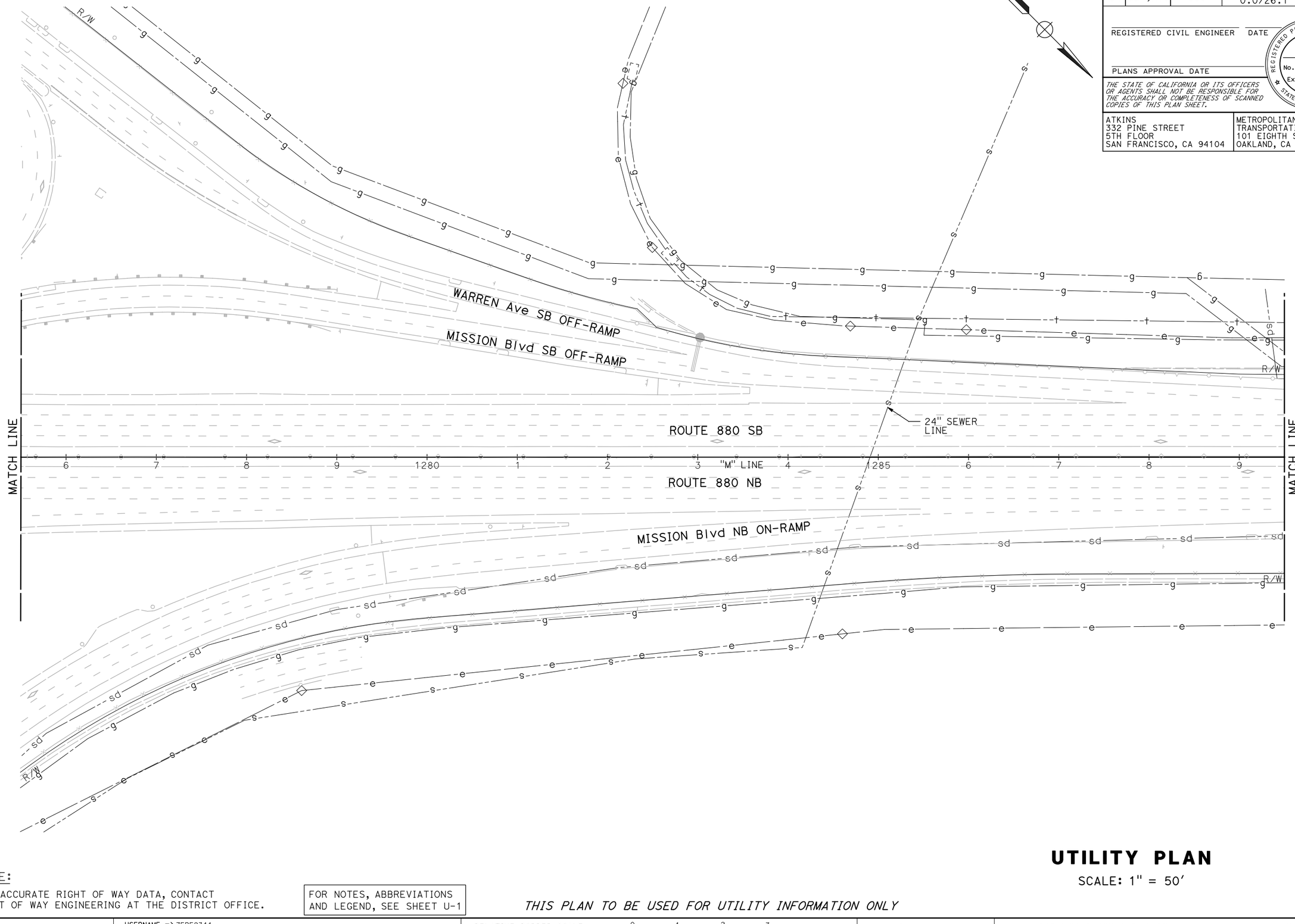
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



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-17

REVISED BY	DATE REVISED

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

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:16:58 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka018.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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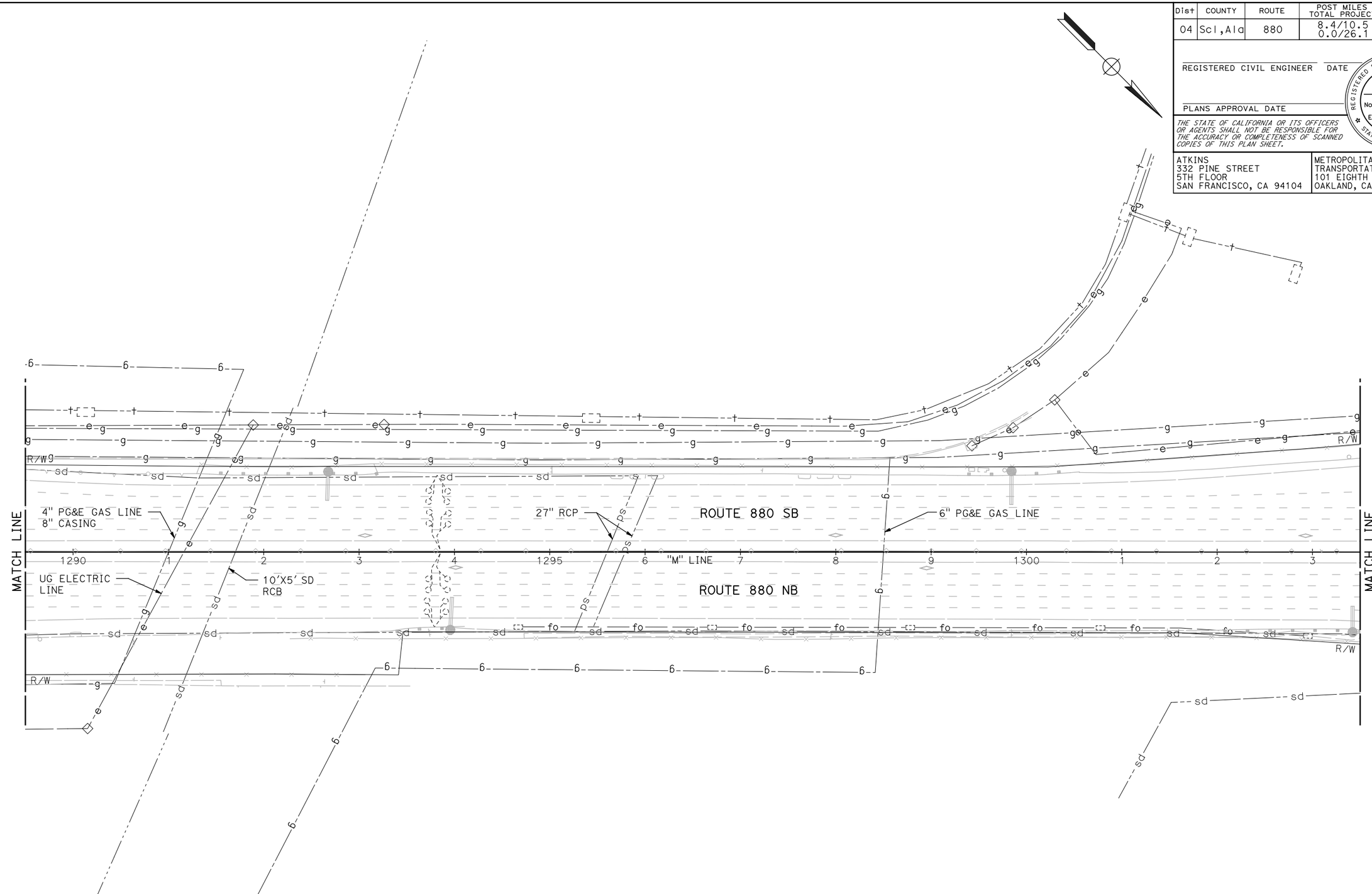
5TH FLOOR
SAN FRANCISCO, CA 94104

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'

CALCULATED-DESIGNED BY: ARON ZEREZGHI
CHECKED BY: NATHAN COPE
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

REVISED BY | DATE REVISED

c:\pw_work\dtknaca01\zere2344\dms01003\ka019.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:18:35 PM

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ka019.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. 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.

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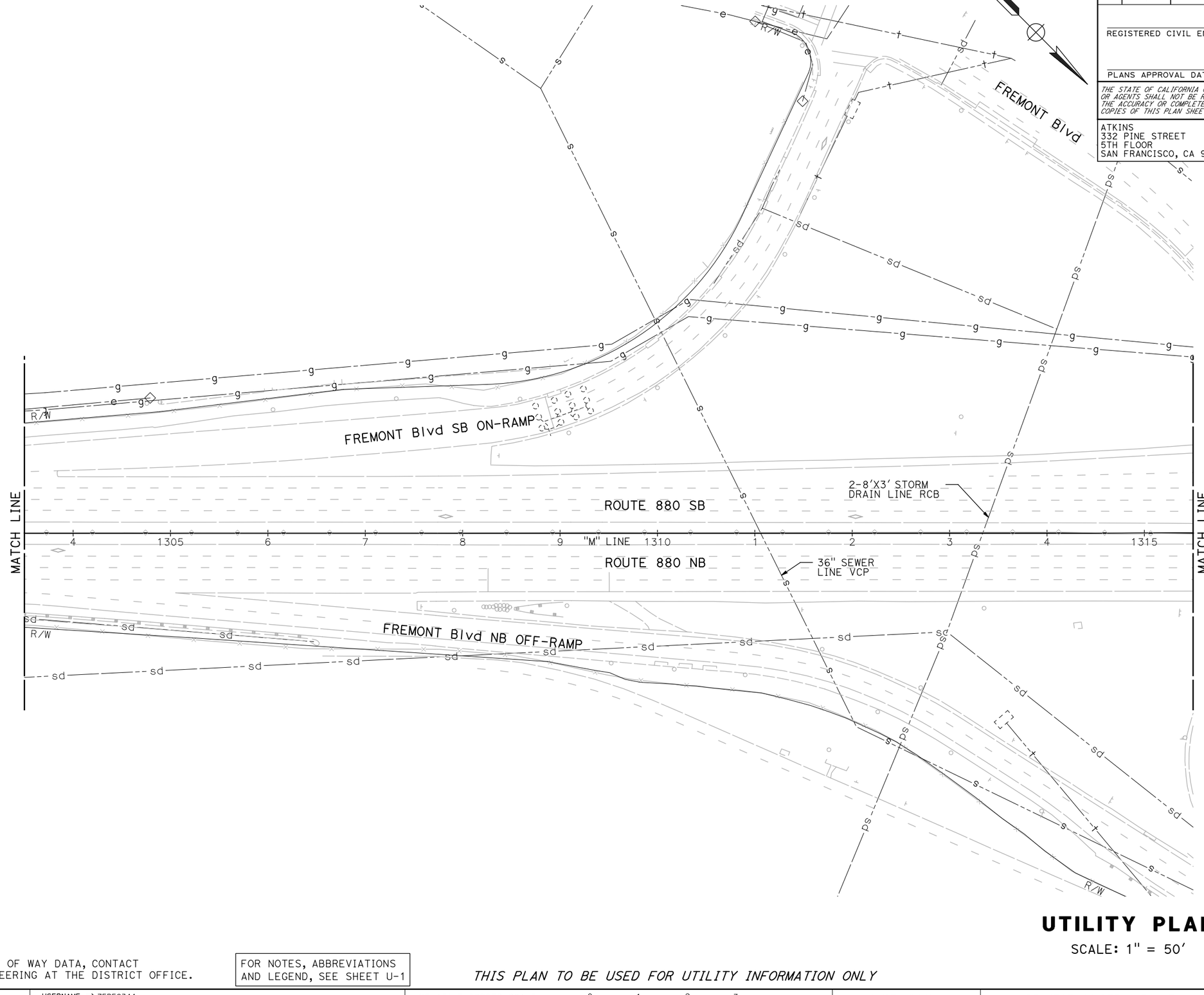
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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-19

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c:\pw_work\dfknaca01\zere2344\dms01003\ka020.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:20:04 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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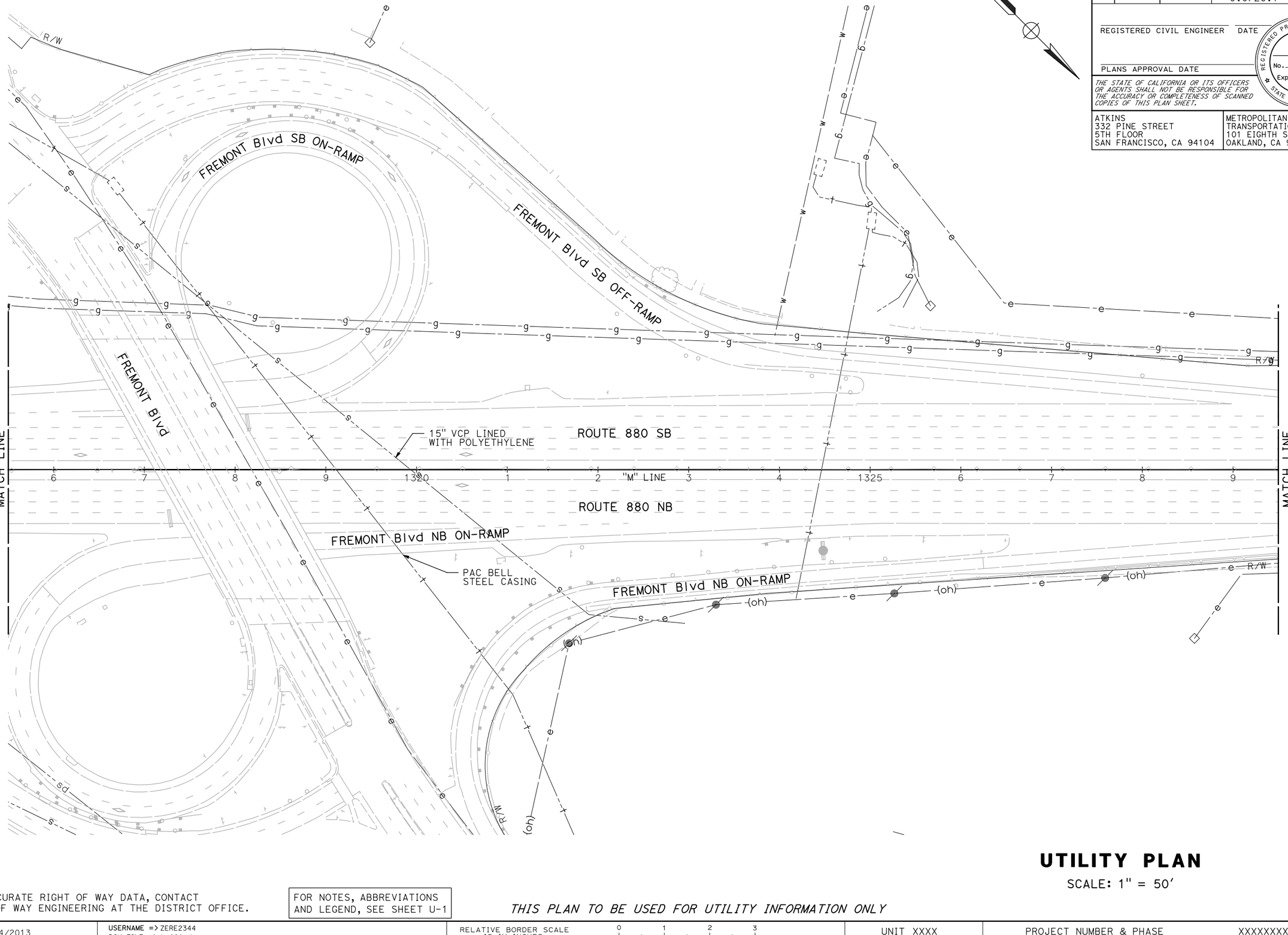
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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-20

REVISED BY	ARON ZEREZGHI	CALCULATED-DESIGNED BY
DATE REVISED	NATHAN COPE	CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR	KAI CHAN	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans	

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:21:36 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. 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-21

REVISED BY	DATE REVISED

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

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ka022.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:23:10 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka022.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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

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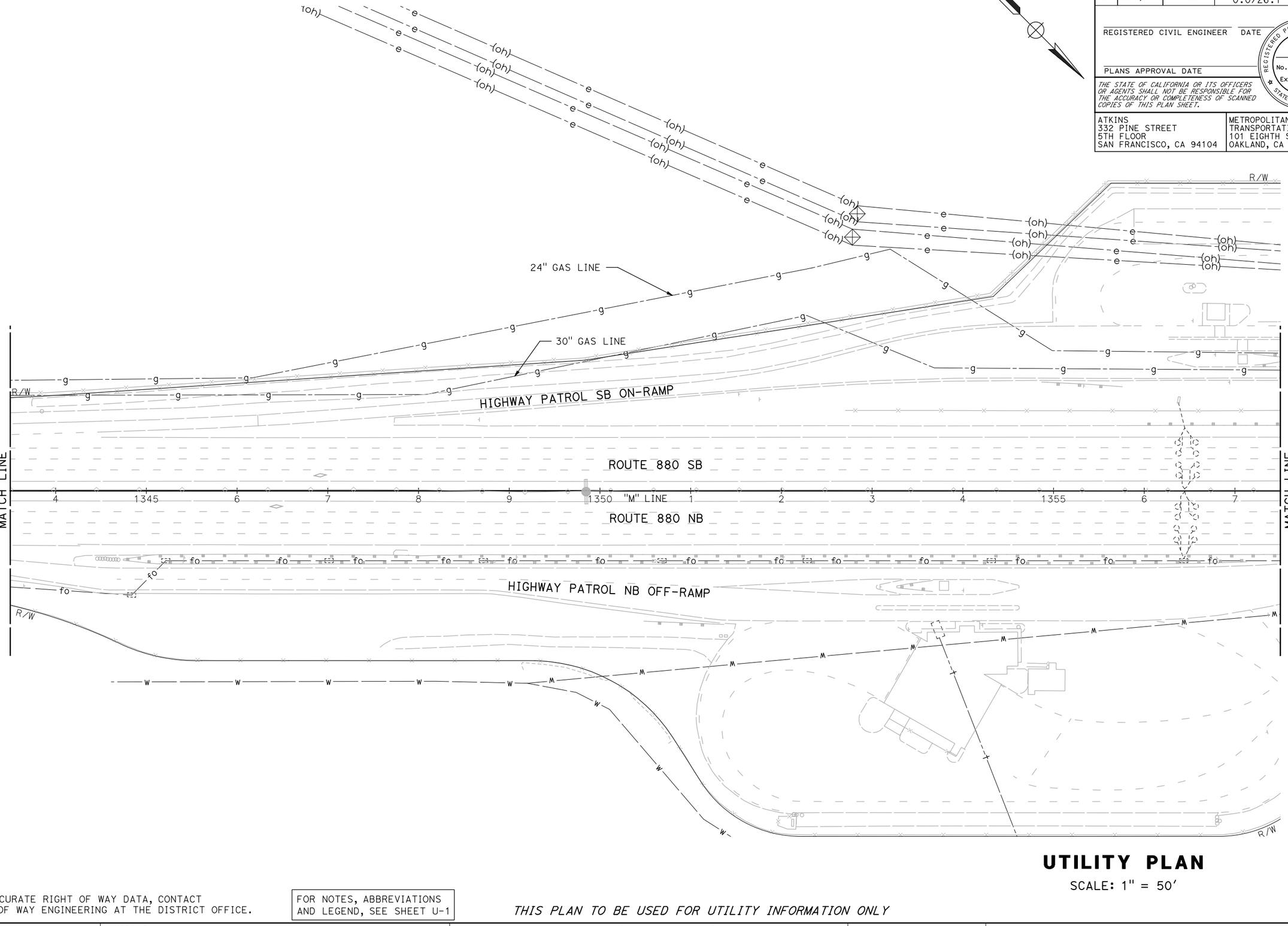
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



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-22

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ARON ZEREZGHI | NATHAN COPE

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 7:24:43 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka023.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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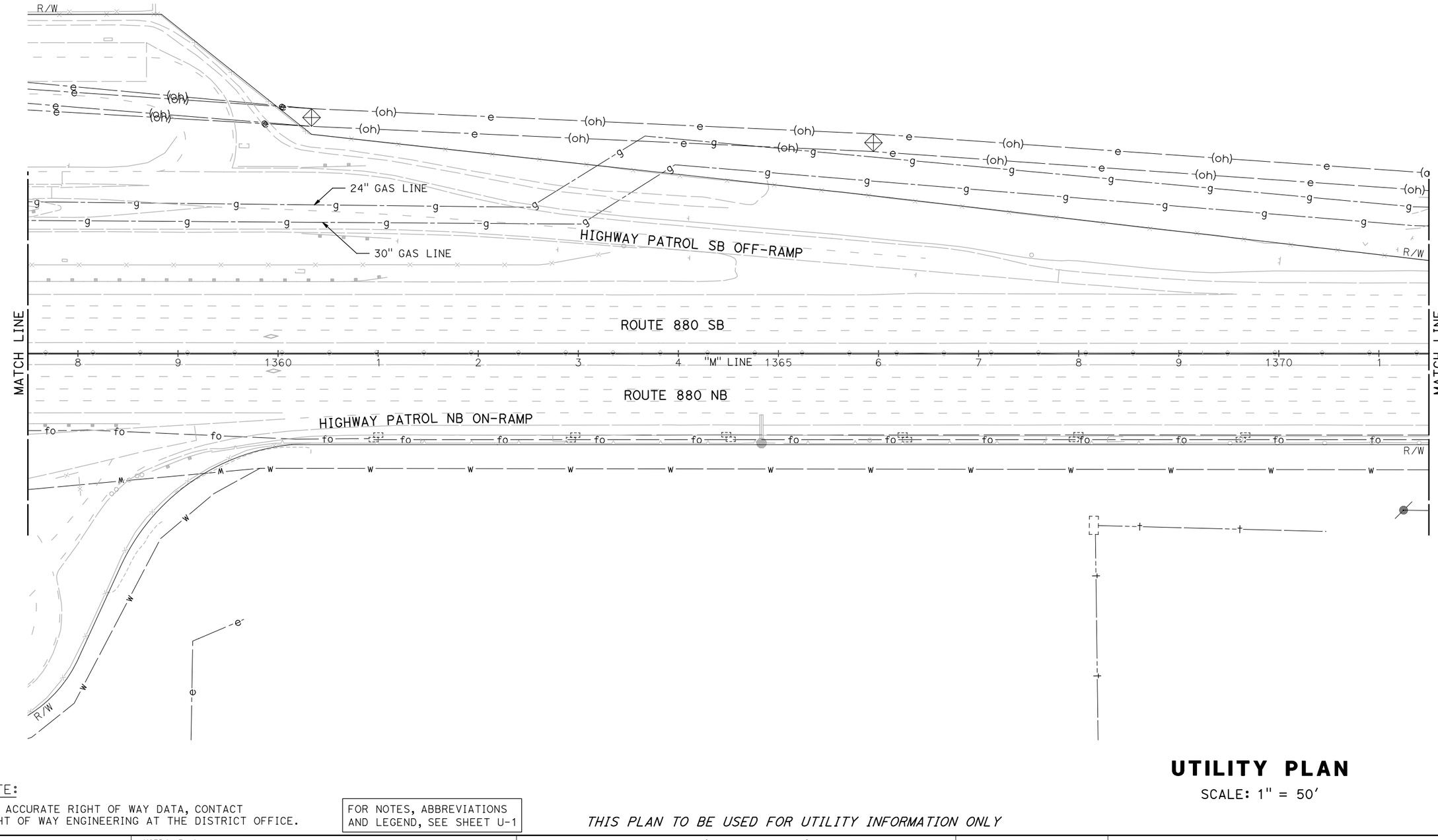
OAKLAND, CA 94607



NOTE:

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

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

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UTILITY PLAN

SCALE: 1" = 50'

U-23

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LAST REVISION | DATE PLOTTED => 5/24/2015
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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka024.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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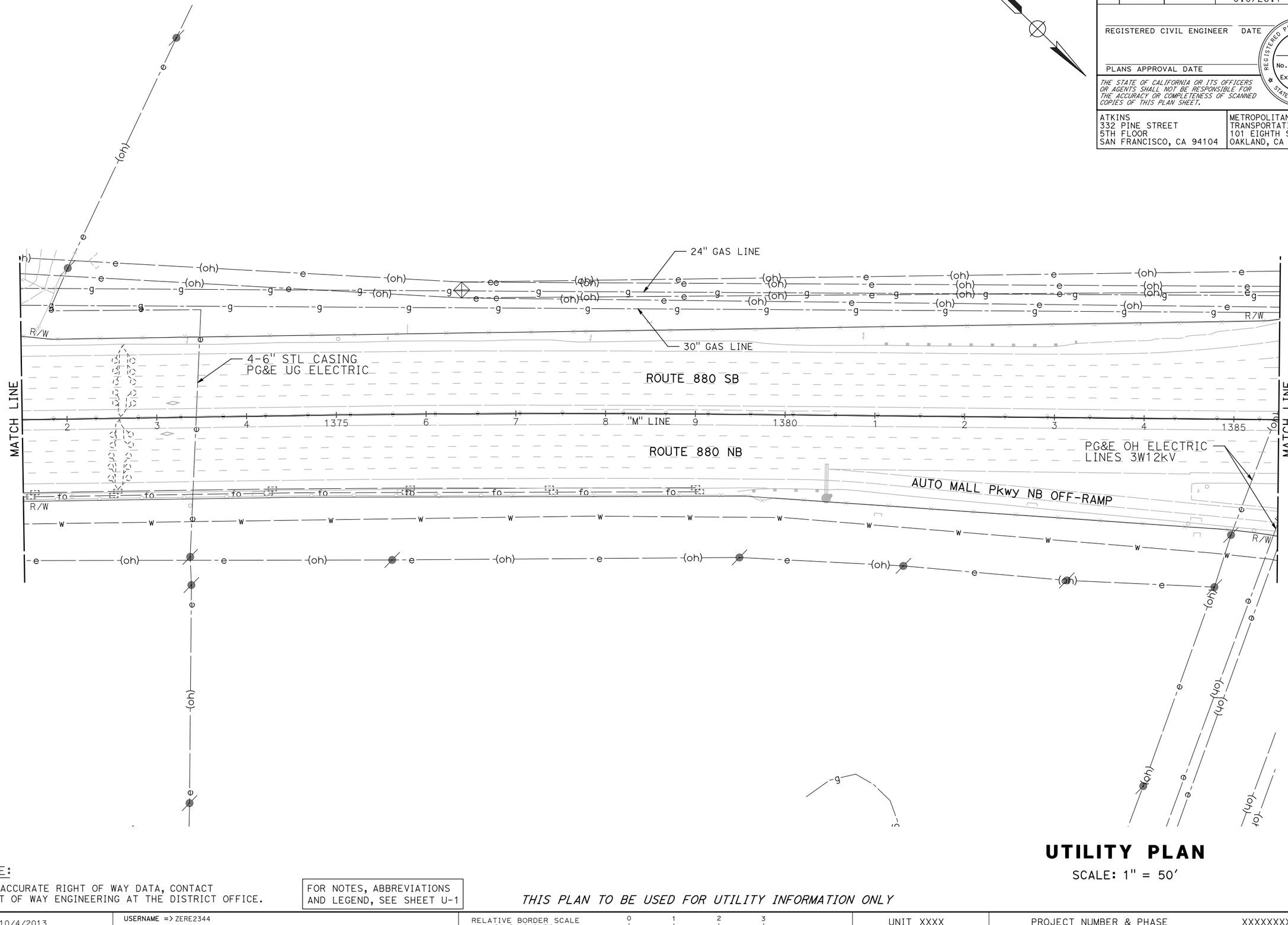
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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-24

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 7:27:49 PM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka025.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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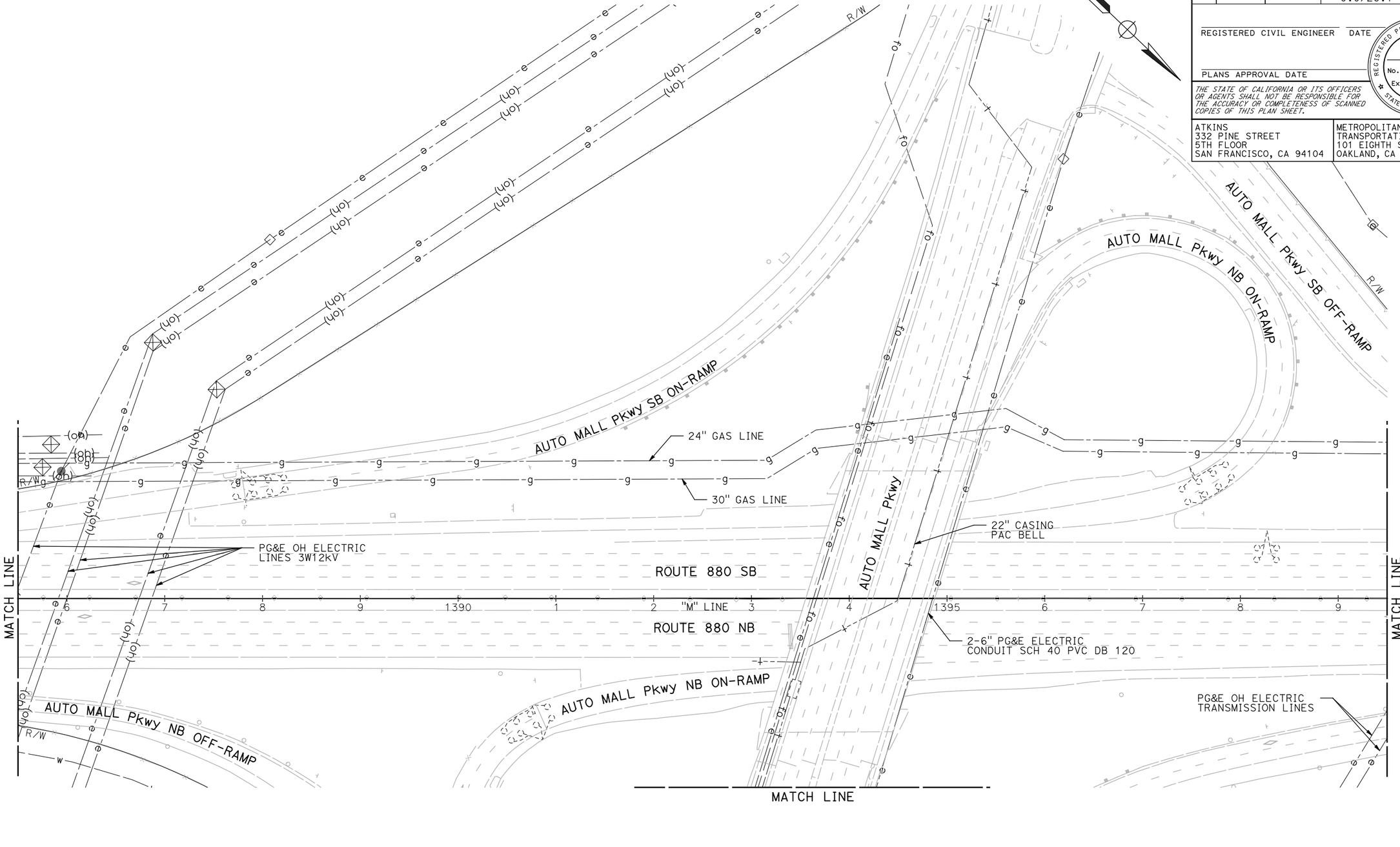
101 EIGHTH STREET
OAKLAND, CA 94607



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

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION DATE PLOTTED => 5/24/2015
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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka026.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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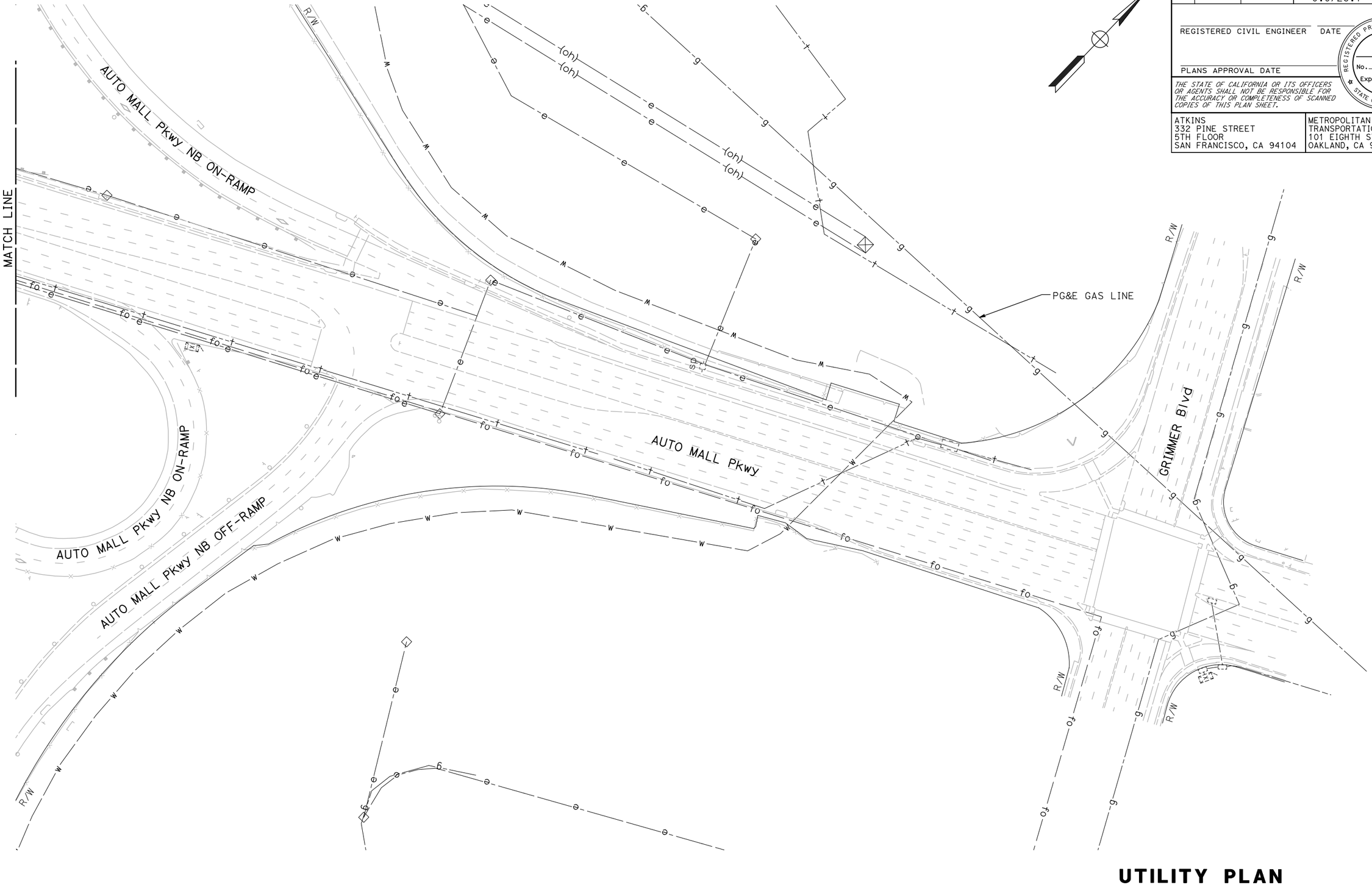
OAKLAND, CA 94607



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-26

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LAST REVISION | DATE PLOTTED => 5/24/2015 | 00-00-00 | TIME PLOTTED => 7:30:56 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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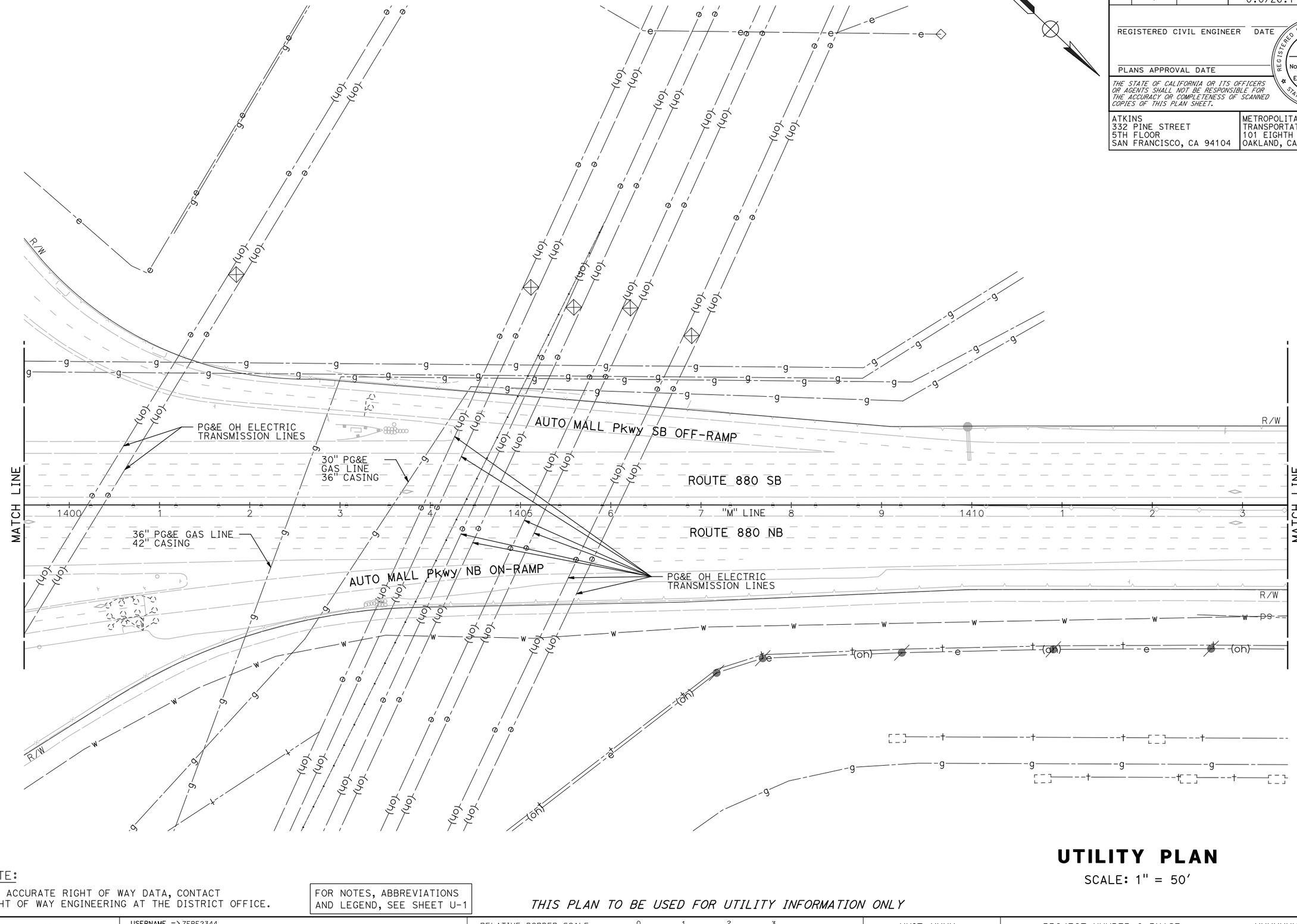
OAKLAND, CA 94607



NOTE:

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

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UTILITY PLAN

SCALE: 1" = 50'

U-27

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DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:32:35 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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SAN FRANCISCO, CA 94104

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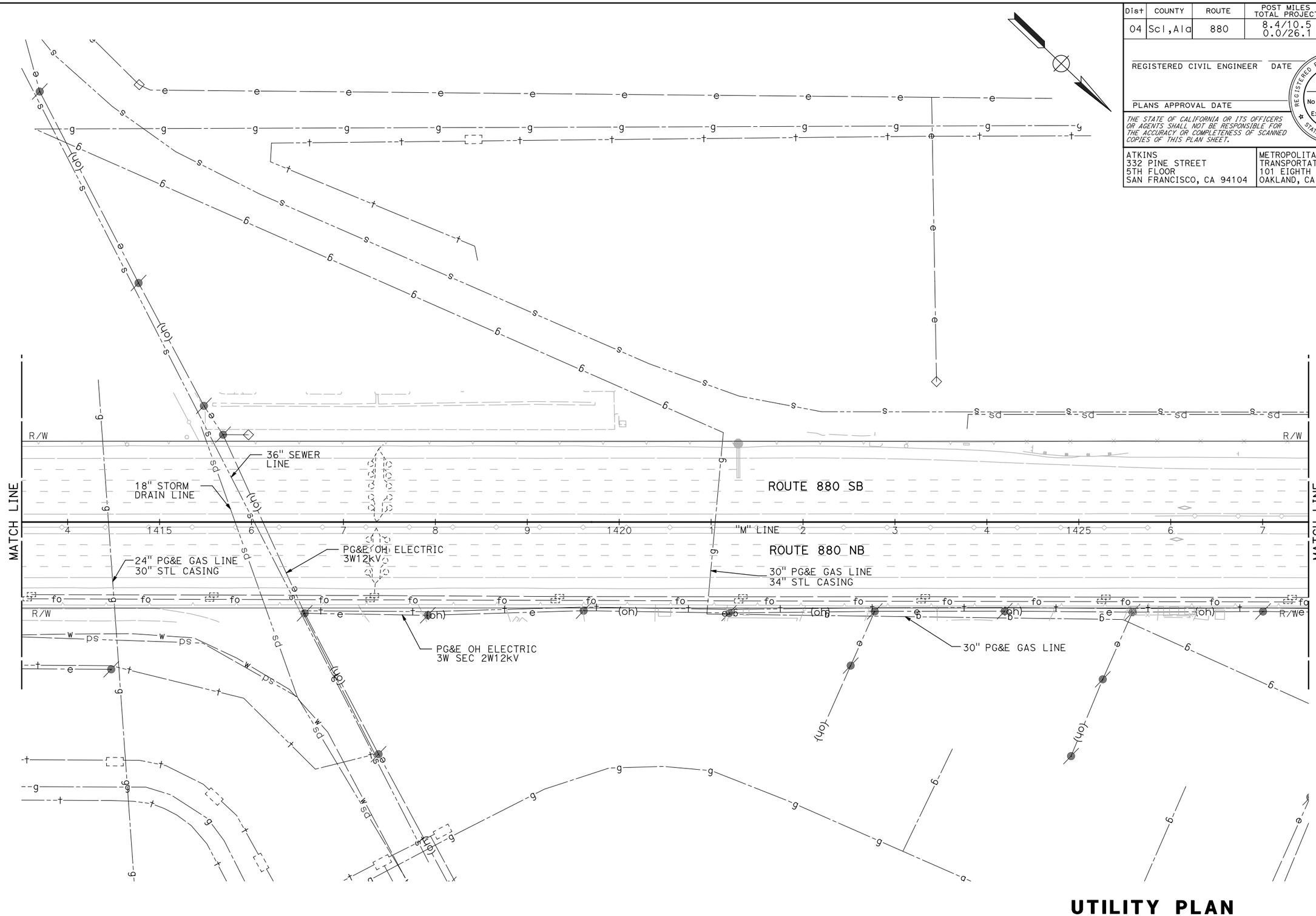
OAKLAND, CA 94607



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

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-28

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DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:34:13 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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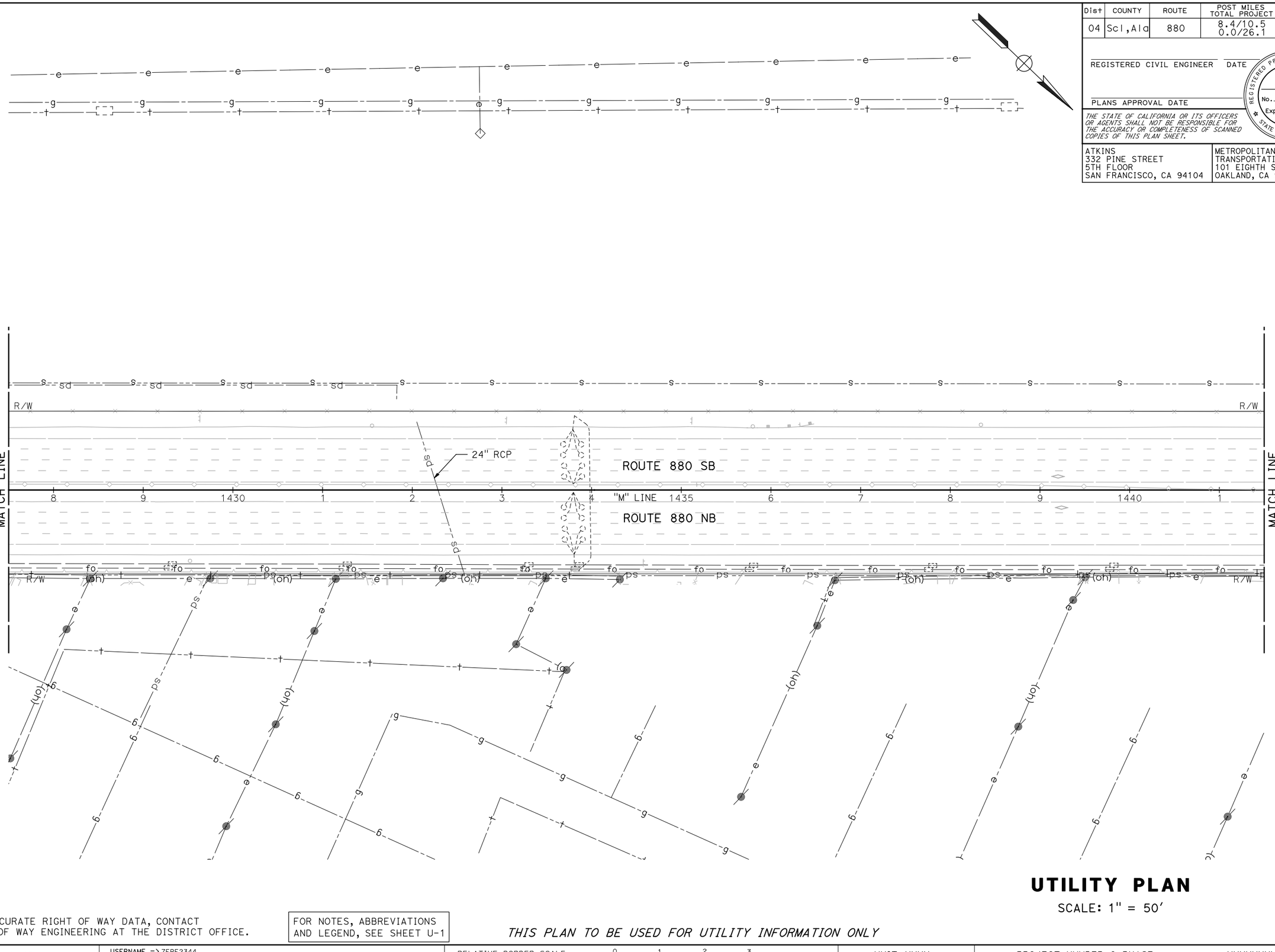
101 EIGHTH STREET
OAKLAND, CA 94607



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-29

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:35:51 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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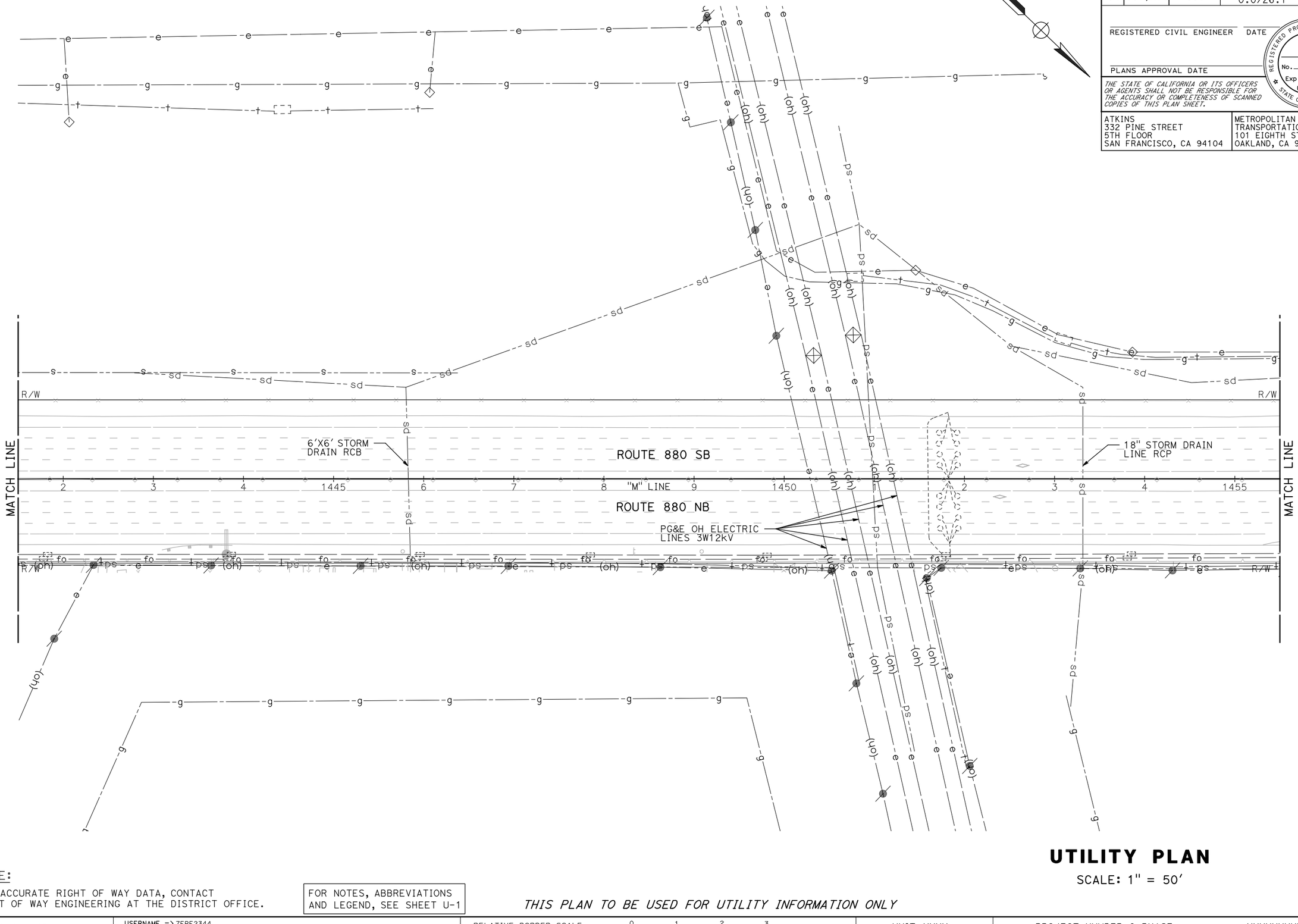
101 EIGHTH STREET
OAKLAND, CA 94607



UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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U-30

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION | DATE PLOTTED => 5/24/2015
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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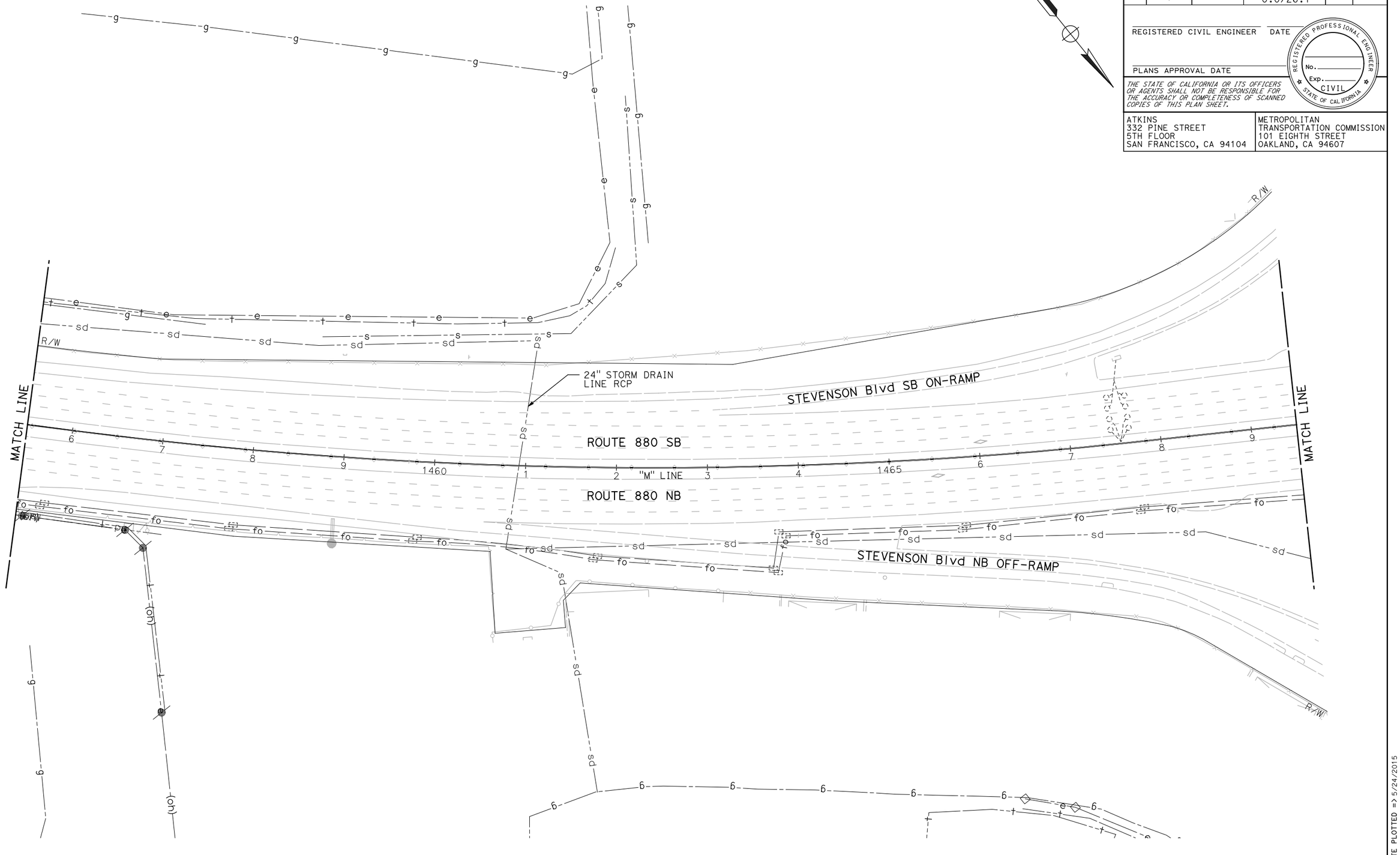
OAKLAND, CA 94607



NOTE:

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

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

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UTILITY PLAN

SCALE: 1" = 50'

U-31

REVISED BY | DATE REVISED

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka032.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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SAN FRANCISCO, CA 94104

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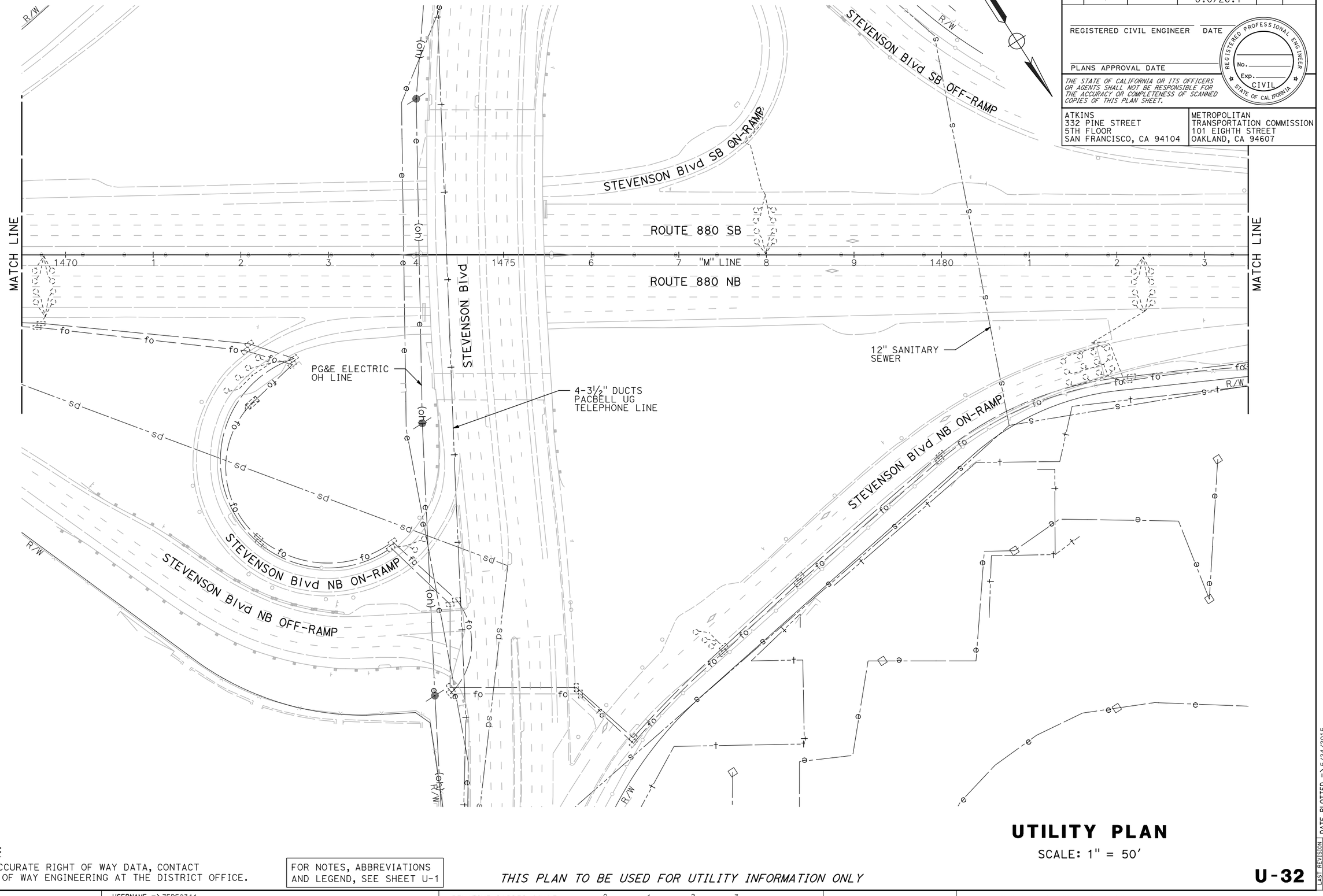
101 EIGHTH STREET
OAKLAND, CA 94607



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-32

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI

CHECKED BY: NATHAN COPE

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 7:40:44 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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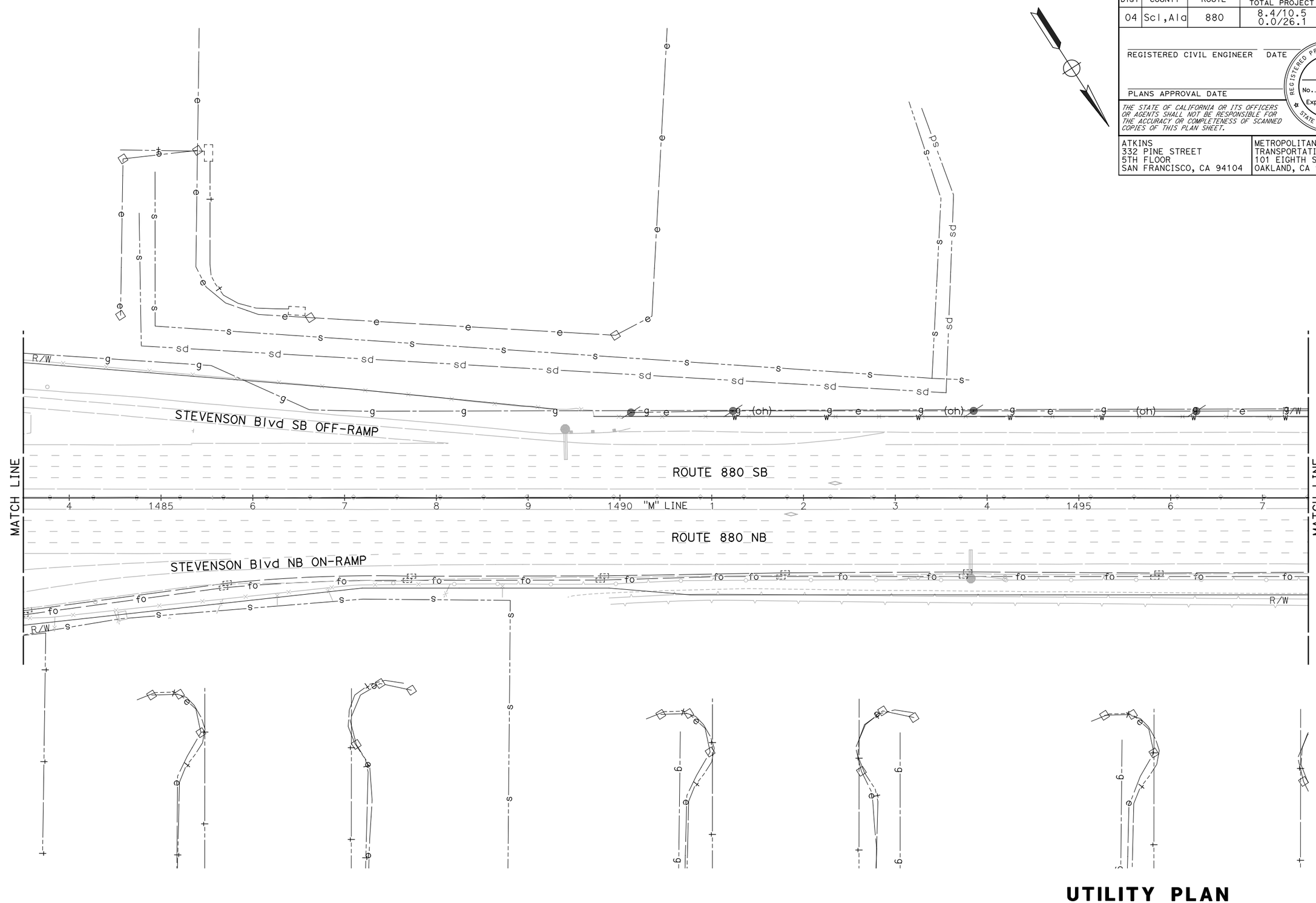
OAKLAND, CA 94607



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

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U-33

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI

CHECKED BY: NATHAN COPE

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:42:23 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
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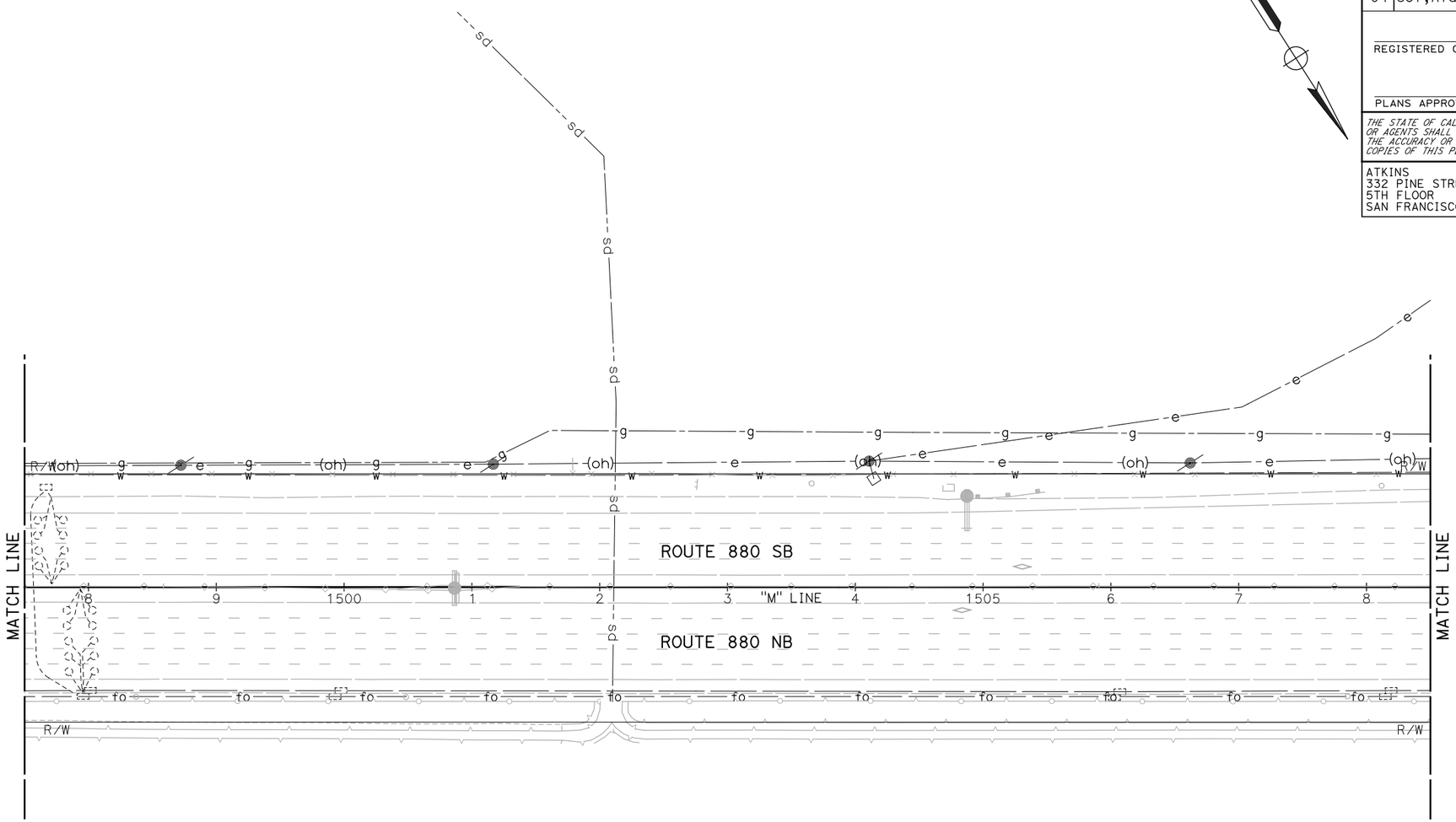
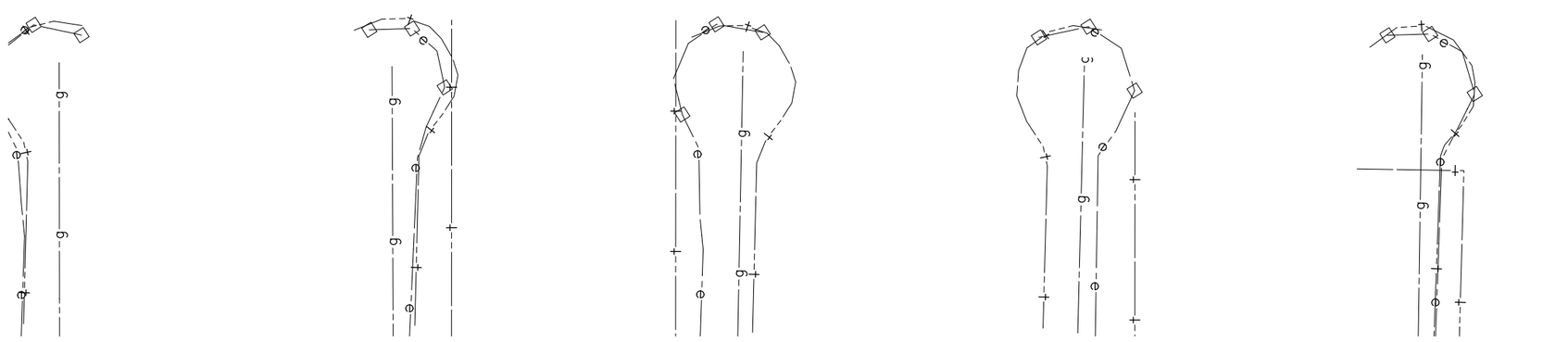
101 EIGHTH STREET
OAKLAND, CA 94607





UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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

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U-34

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LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 7:43:59 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka035.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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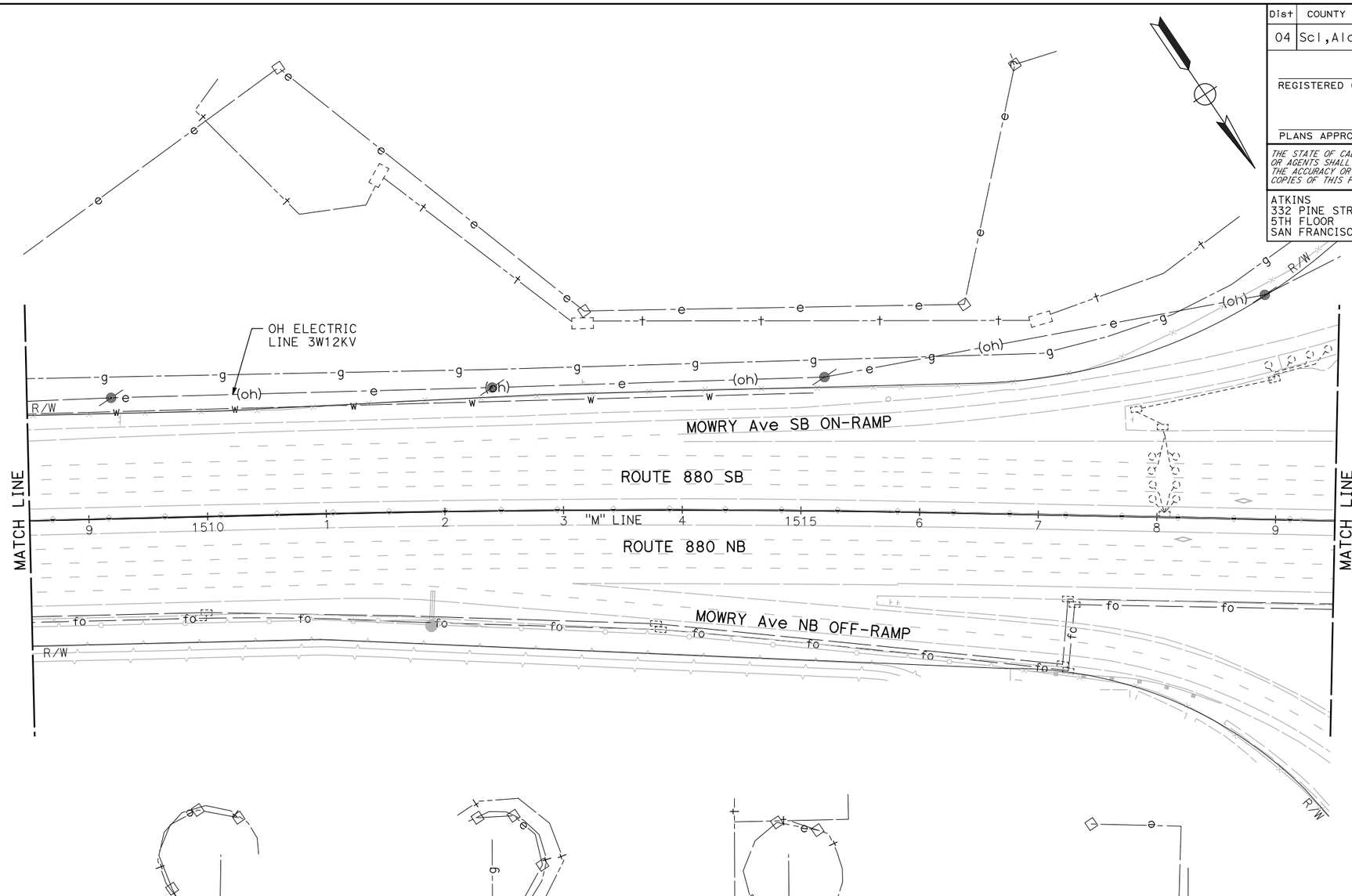
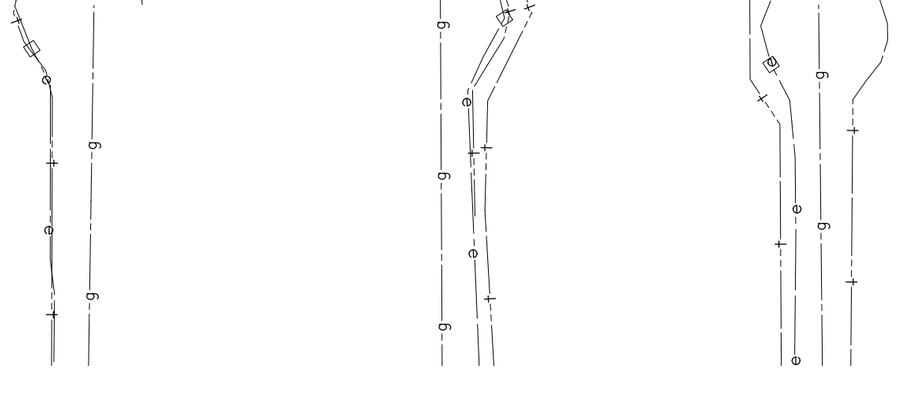
OAKLAND, CA 94607





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

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-35

REVISED BY | DATE REVISED

ARON ZEREZGHI | NATHAN COPE

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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c:\pw_work\dtknaca01\zere2344\dms01003\ka036.dgn

LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 7:45:33 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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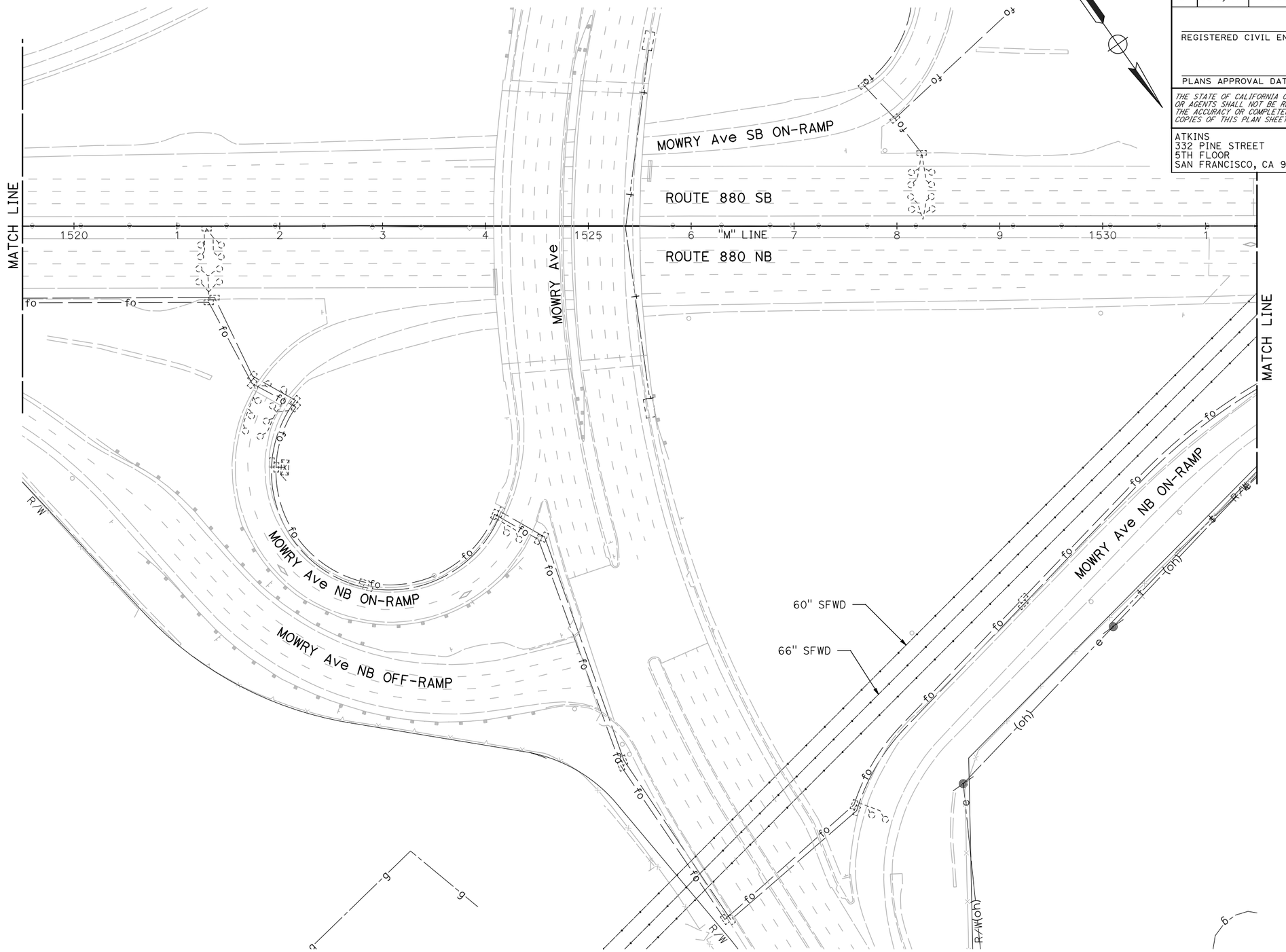

UTILITY PLAN

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-36

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI
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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:47:07 PM

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ka037.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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SAN FRANCISCO, CA 94104

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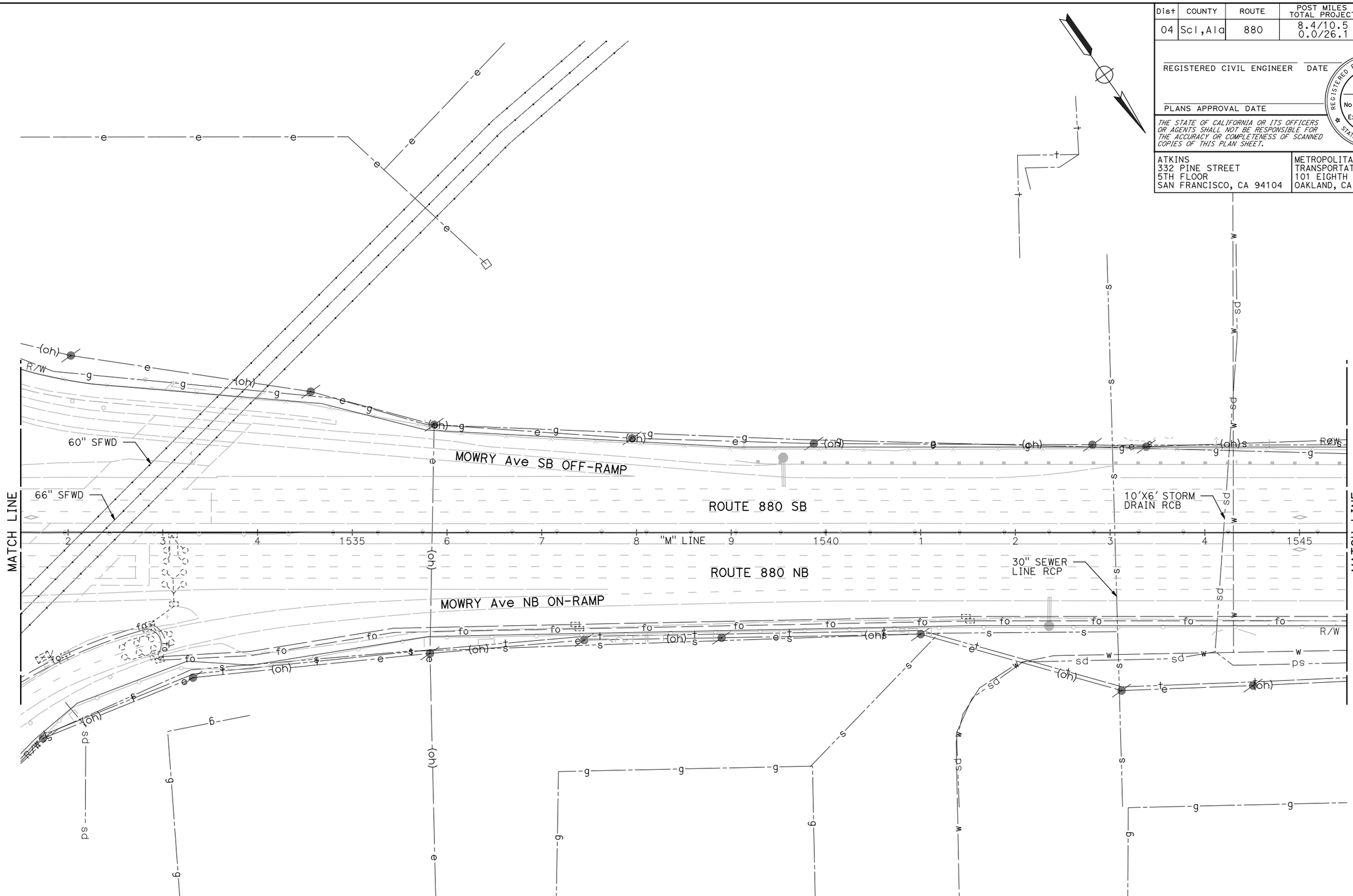
101 EIGHTH STREET
OAKLAND, CA 94607



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-37

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c:\pw_work\atknaca01\zere2344\dms01003\ka038.dgn

LAST REVISION 00-00-00 DATE PLOTTED => 5/24/2015 TIME PLOTTED => 7:48:38 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ka038.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

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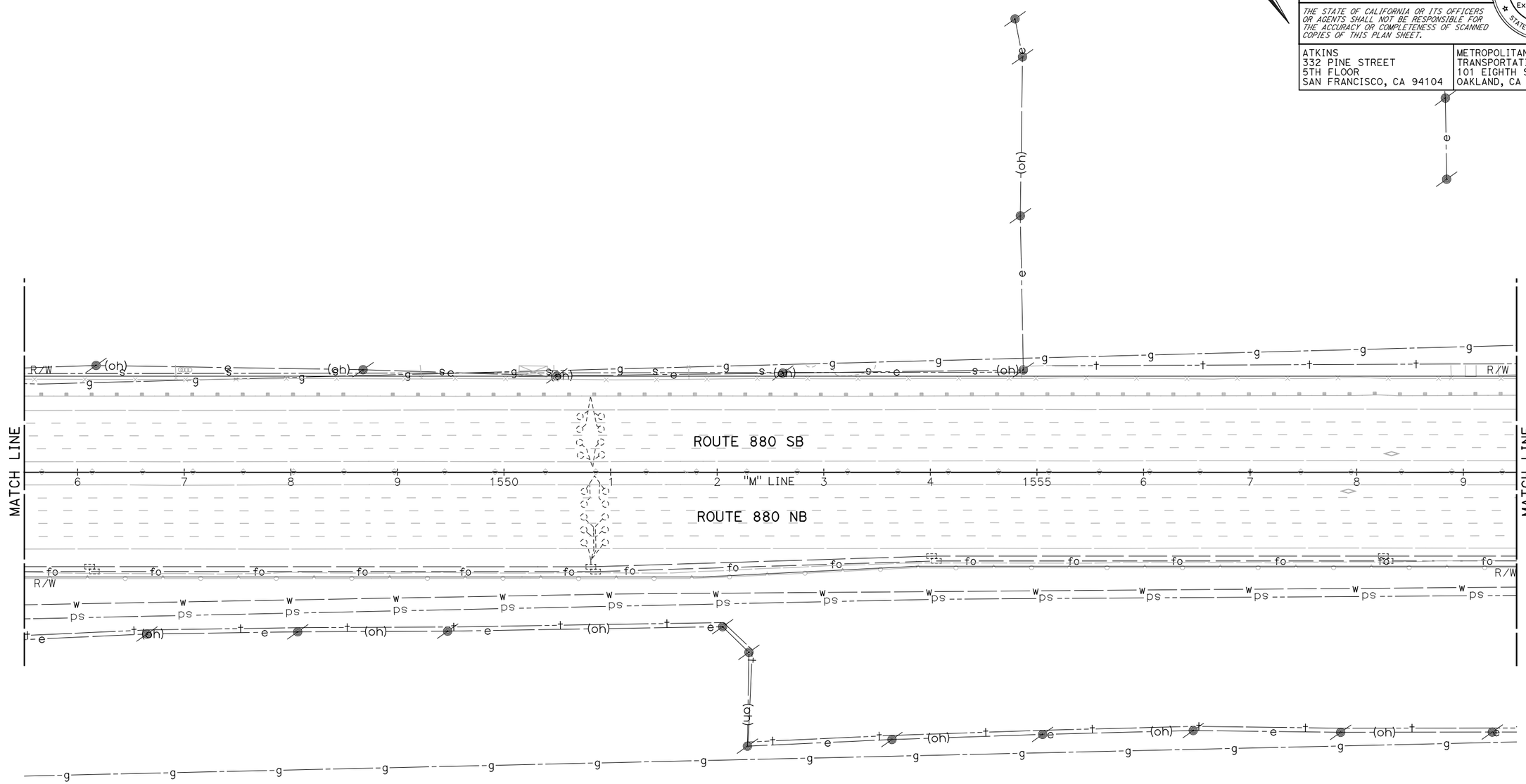
101 EIGHTH STREET
OAKLAND, CA 94607



NOTE:

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

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UTILITY PLAN

SCALE: 1" = 50'

U-38

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:50:16 PM

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ka039.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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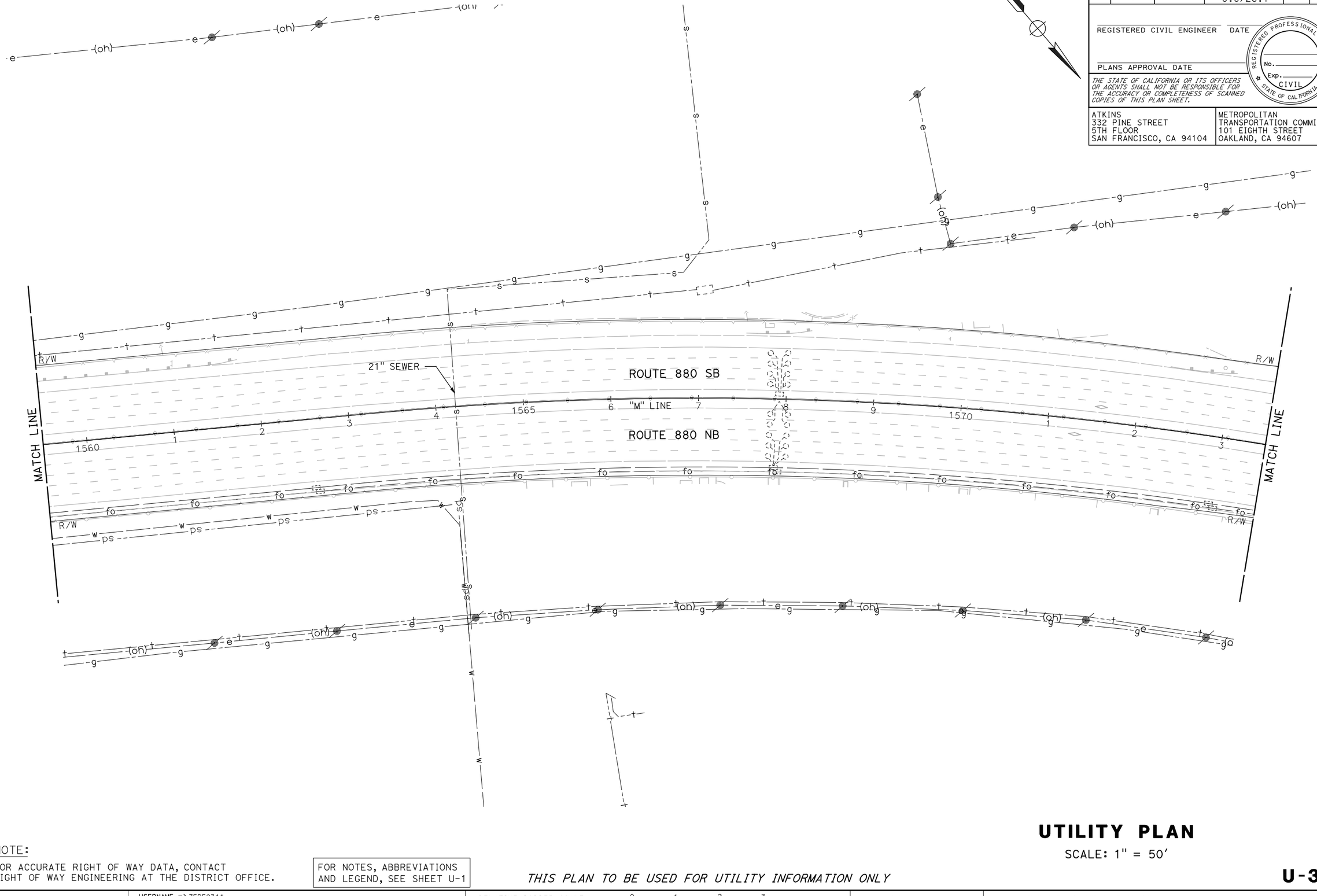

NOTE:

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

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UTILITY PLAN

SCALE: 1" = 50'

U-39

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x c:\pw_work\atknaca01\zere2344\dms01003\ka040.dgn

LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 7:51:54 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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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-40

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DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:53:32 PM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka041.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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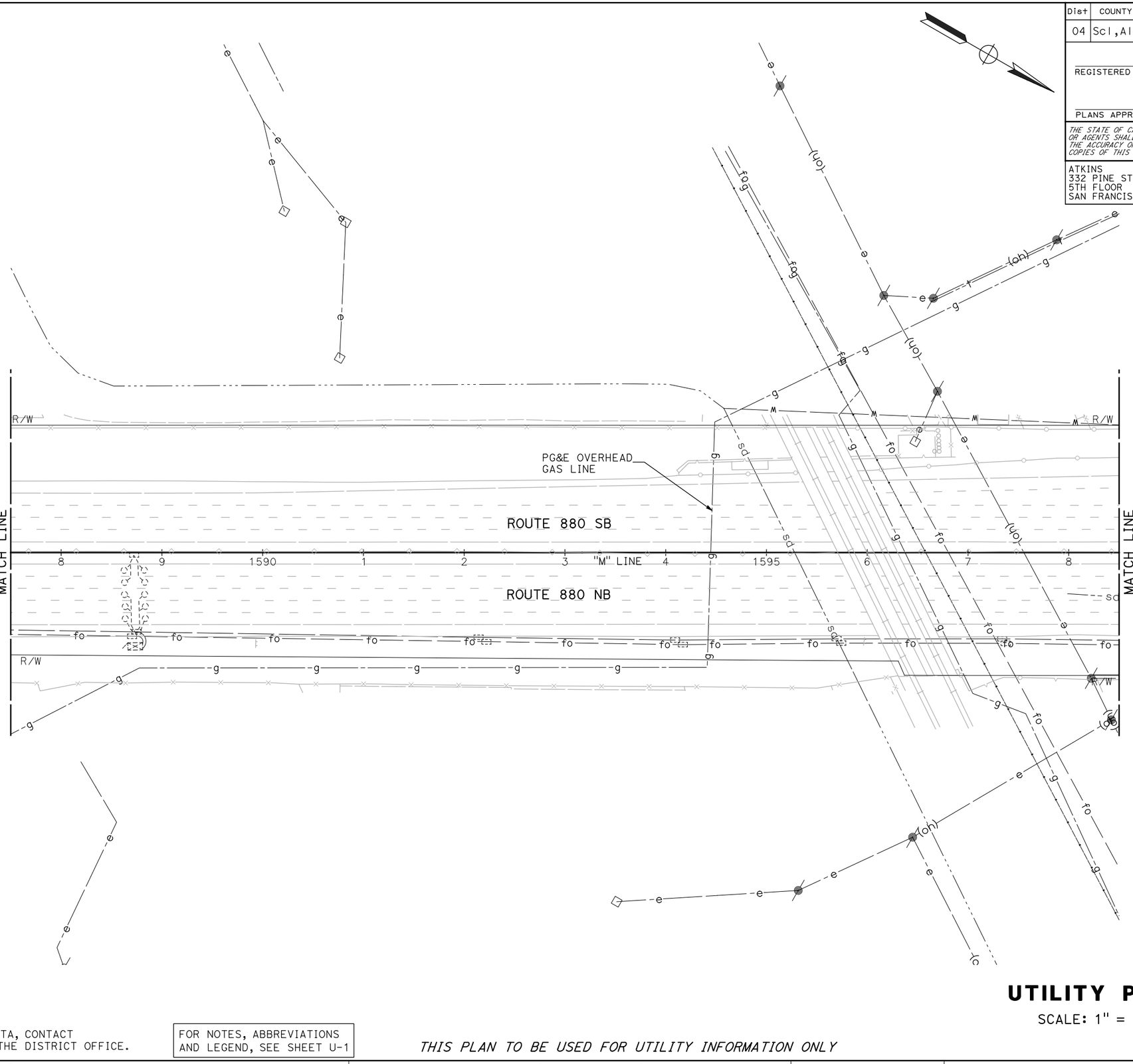

NOTE:

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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-41

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DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:55:01 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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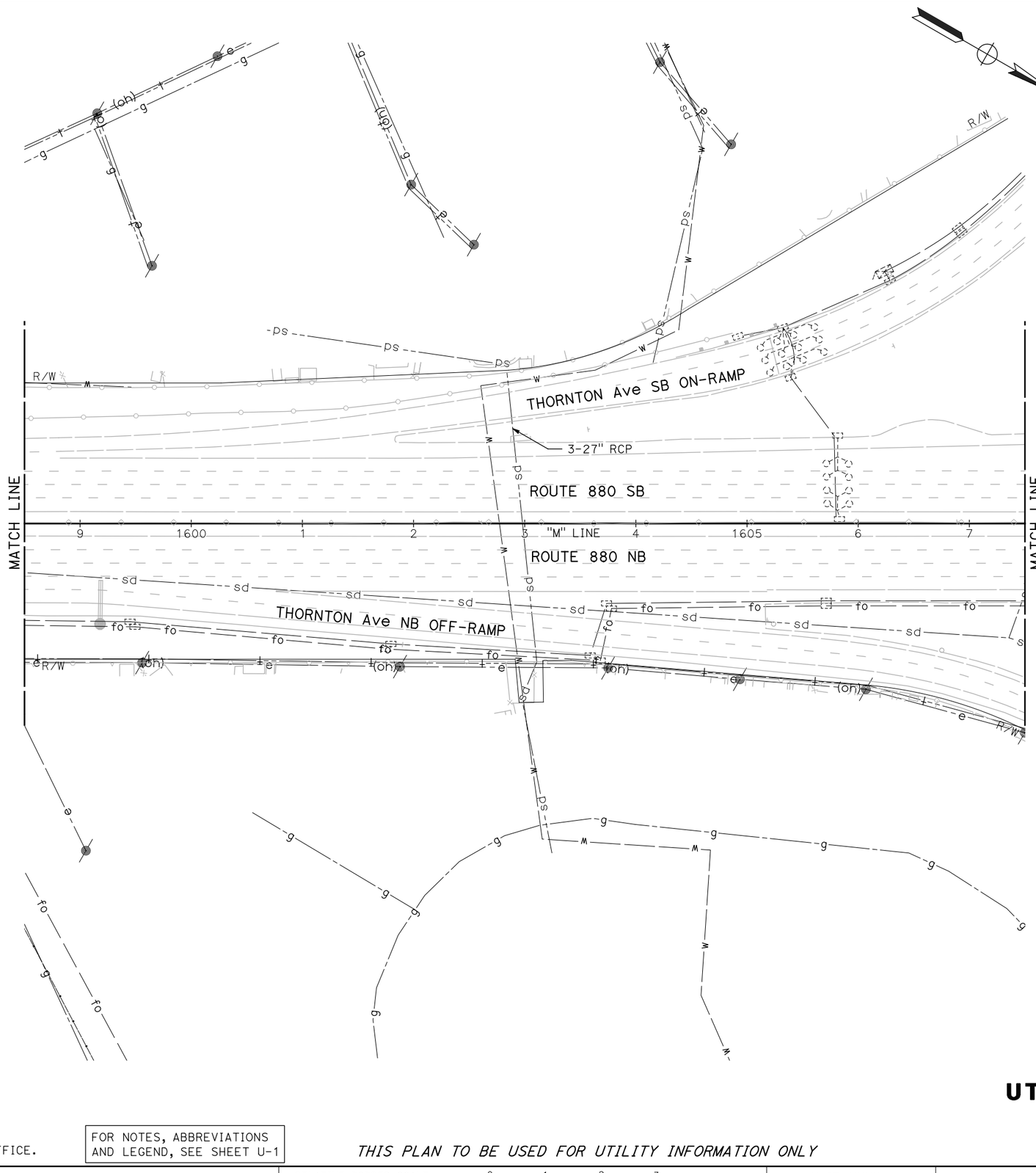
OAKLAND, CA 94607



NOTE:

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

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UTILITY PLAN

SCALE: 1" = 50'

U-42

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ARON ZEREZGHI
NATHAN COPE

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KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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LAST REVISION
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:56:32 PM
00-00-00

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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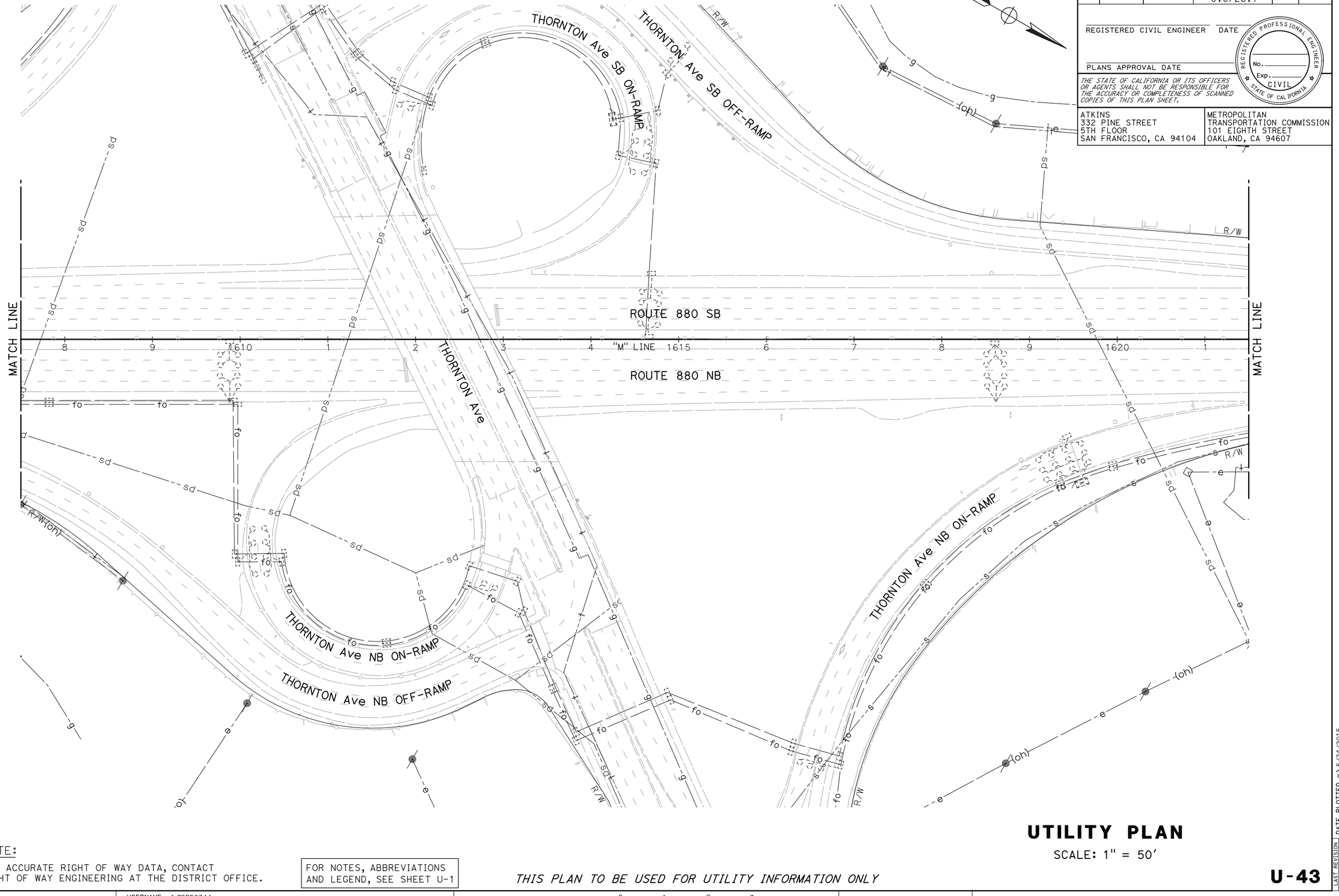
OAKLAND, CA 94607



NOTE:

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

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-43

REVISED BY	DATE REVISED

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 7:58:11 PM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka044.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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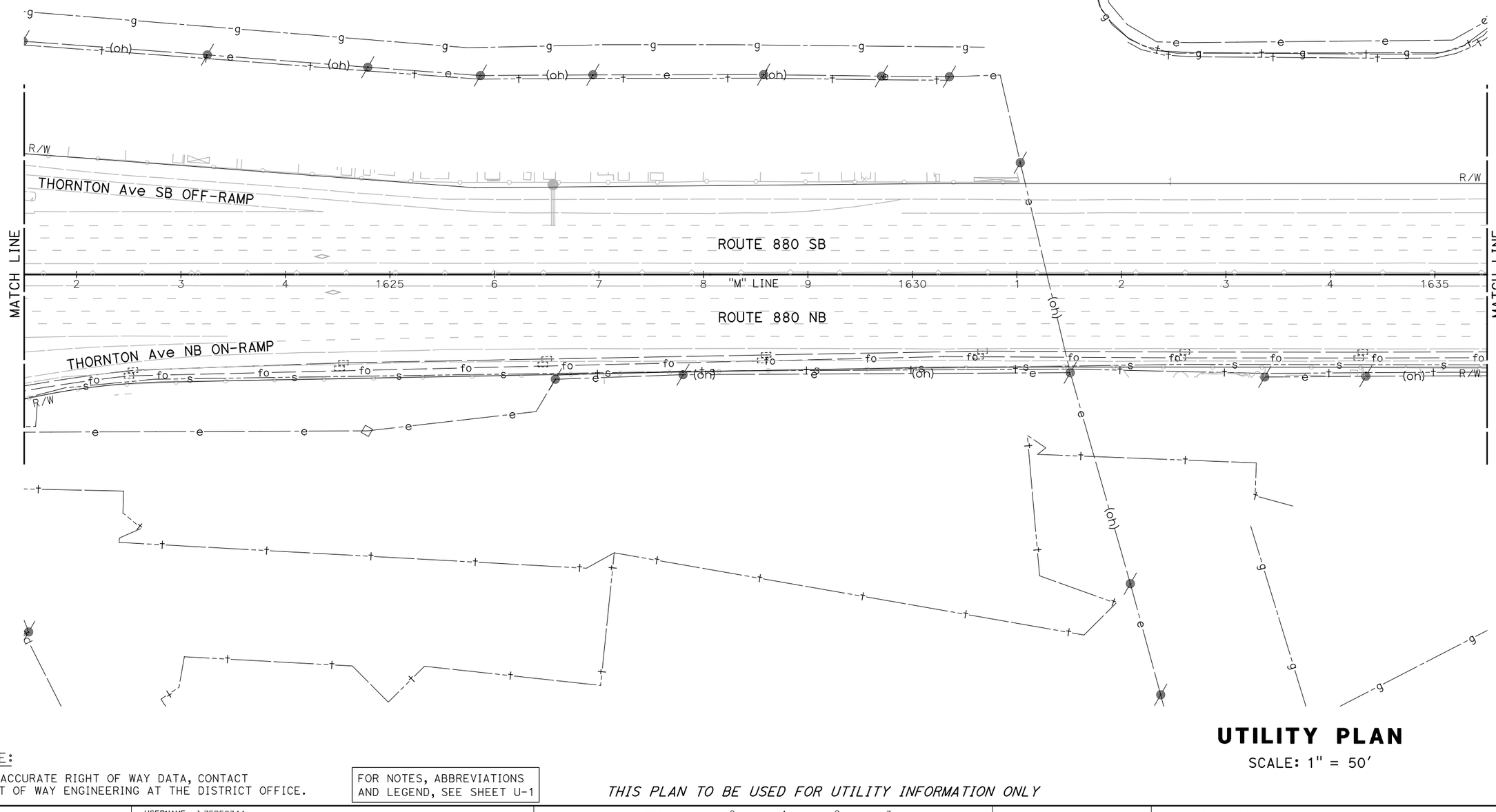
OAKLAND, CA 94607



UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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

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U-44

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CALCULATED-DESIGNED BY | CHECKED BY

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LAST REVISION: 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 7:59:44 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka045.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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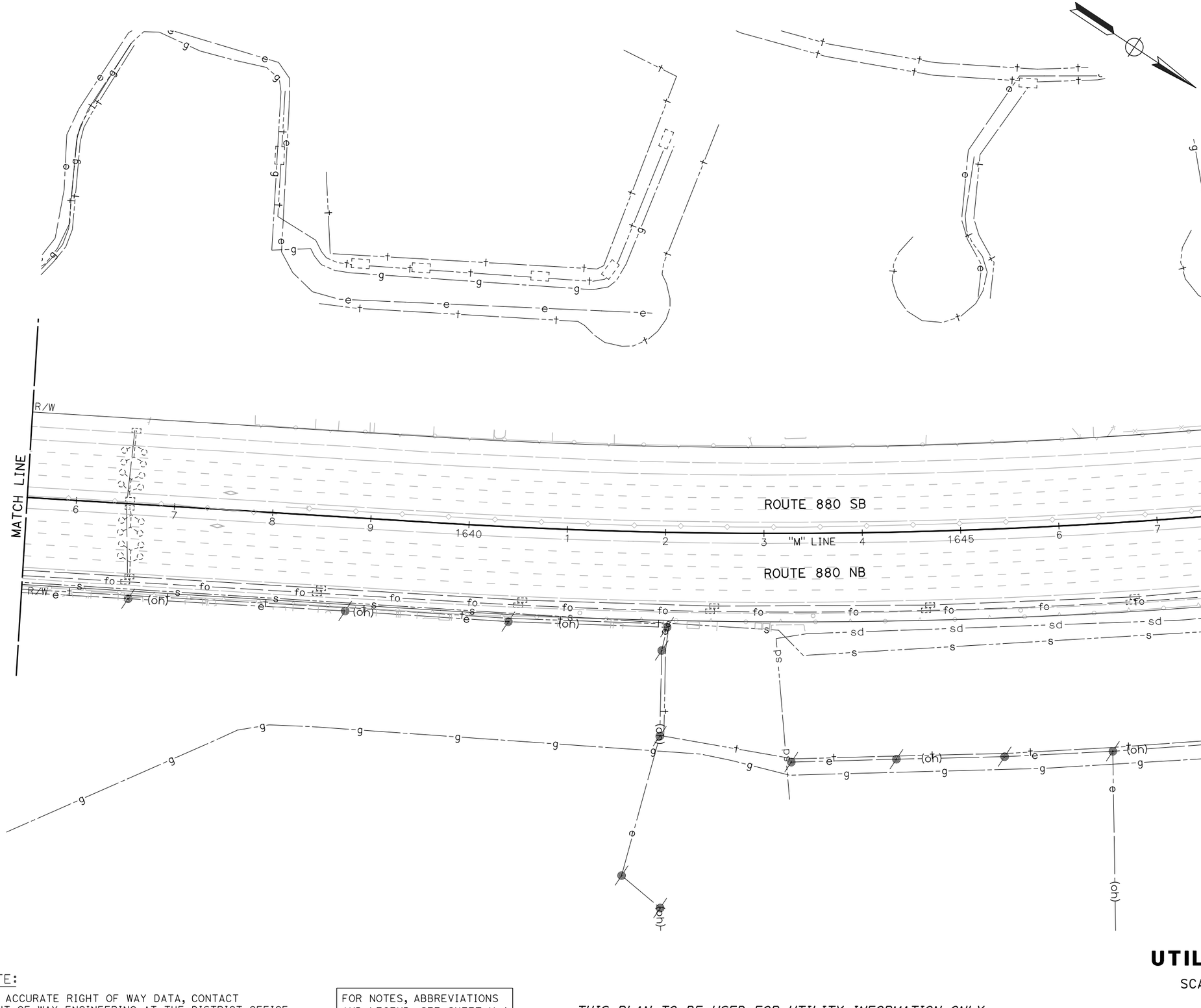
101 EIGHTH STREET
OAKLAND, CA 94607



NOTE:

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

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UTILITY PLAN

SCALE: 1" = 50'

U-45

REVISED BY	DATE REVISED

ARON ZEREZGHI
NATHAN COPE

CALCULATED-DESIGNED BY
CHECKED BY

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Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ka046.dgn

LAST REVISION
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 8:01:16 PM
00-00-00

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka046.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
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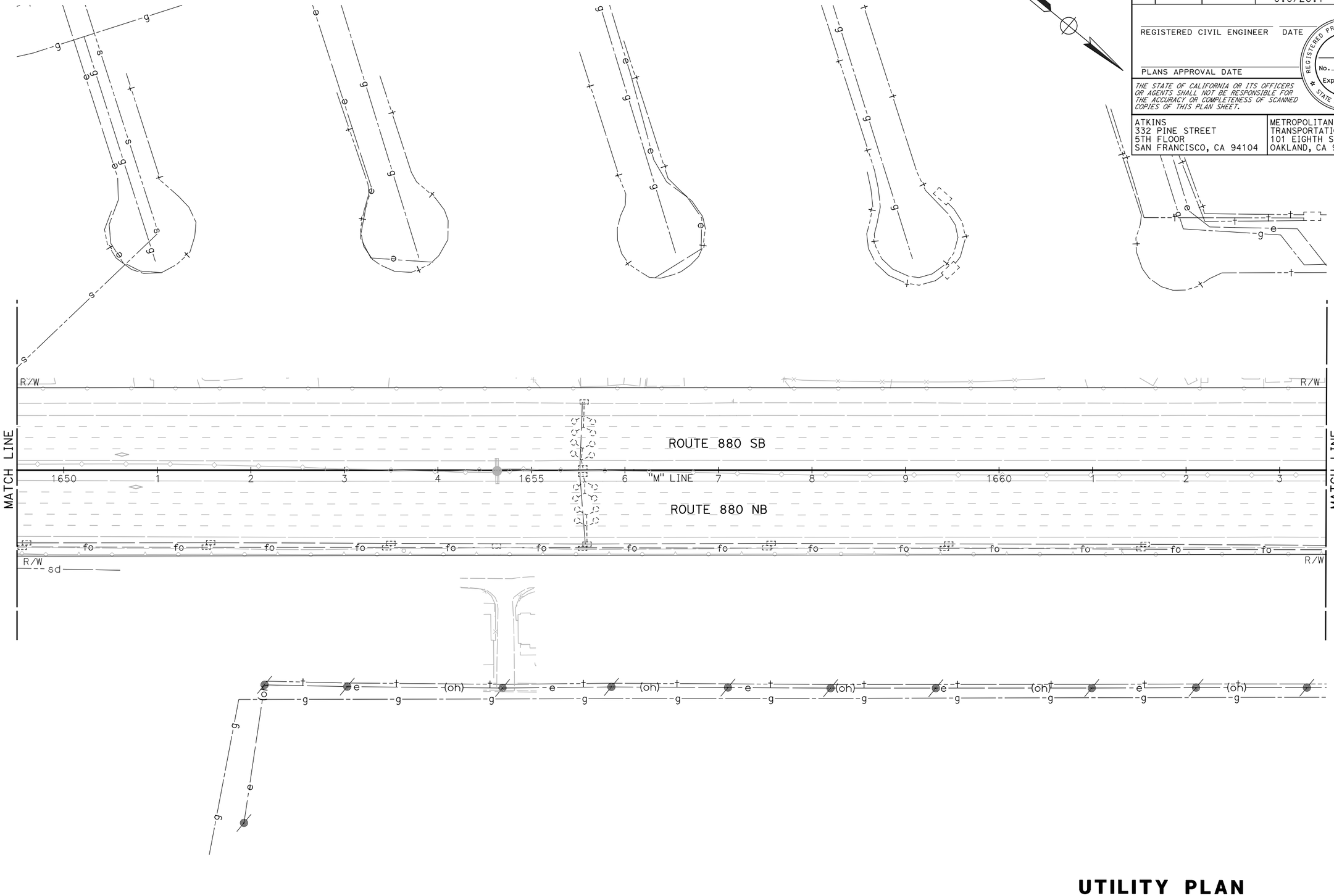
101 EIGHTH STREET
OAKLAND, CA 94607



UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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

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U-46

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

CALCULATED-DESIGNED BY: ARON ZEREZGHI

CHECKED BY: NATHAN COPE

REVISED BY

DATE REVISED

c:\pw_work\atknaca01\zere2344\dms01003\ka047.dgn

LAST REVISION 00-00-00

DATE PLOTTED => 5/24/2015
TIME PLOTTED => 8:02:51 PM

BORDER LAST REVISED 10/4/2013

USERNAME => ZERE2344
DGN FILE => ka047.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT XXXX

PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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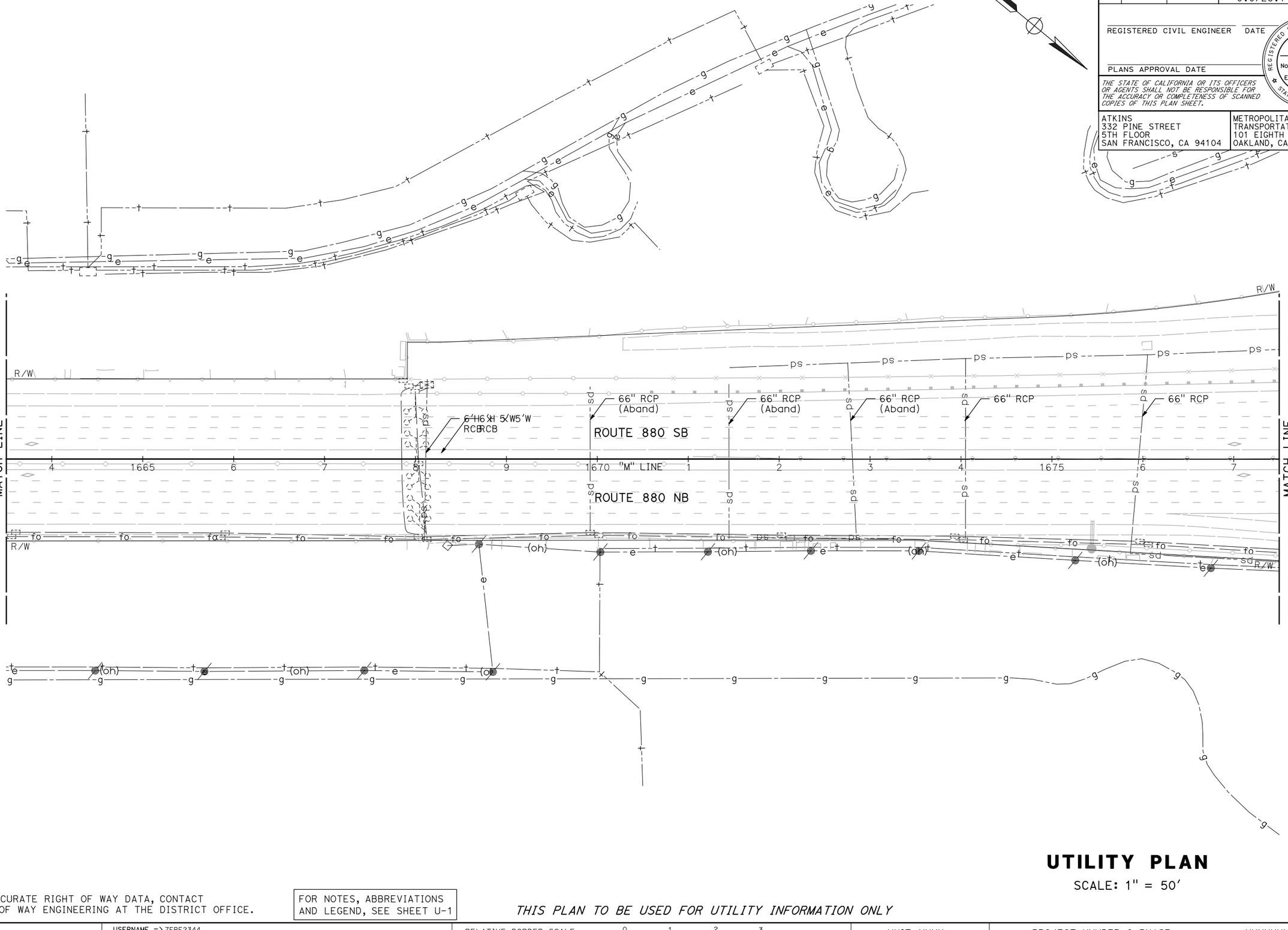
101 EIGHTH STREET
OAKLAND, CA 94607



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-47

REVISED BY	DATE REVISED

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

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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c:\pw_work\atknaca01\zere2344\dms01003\ka048.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 8:04:21 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka048.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl, Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. ____ Exp. ____ CIVIL — STATE OF CALIFORNIA

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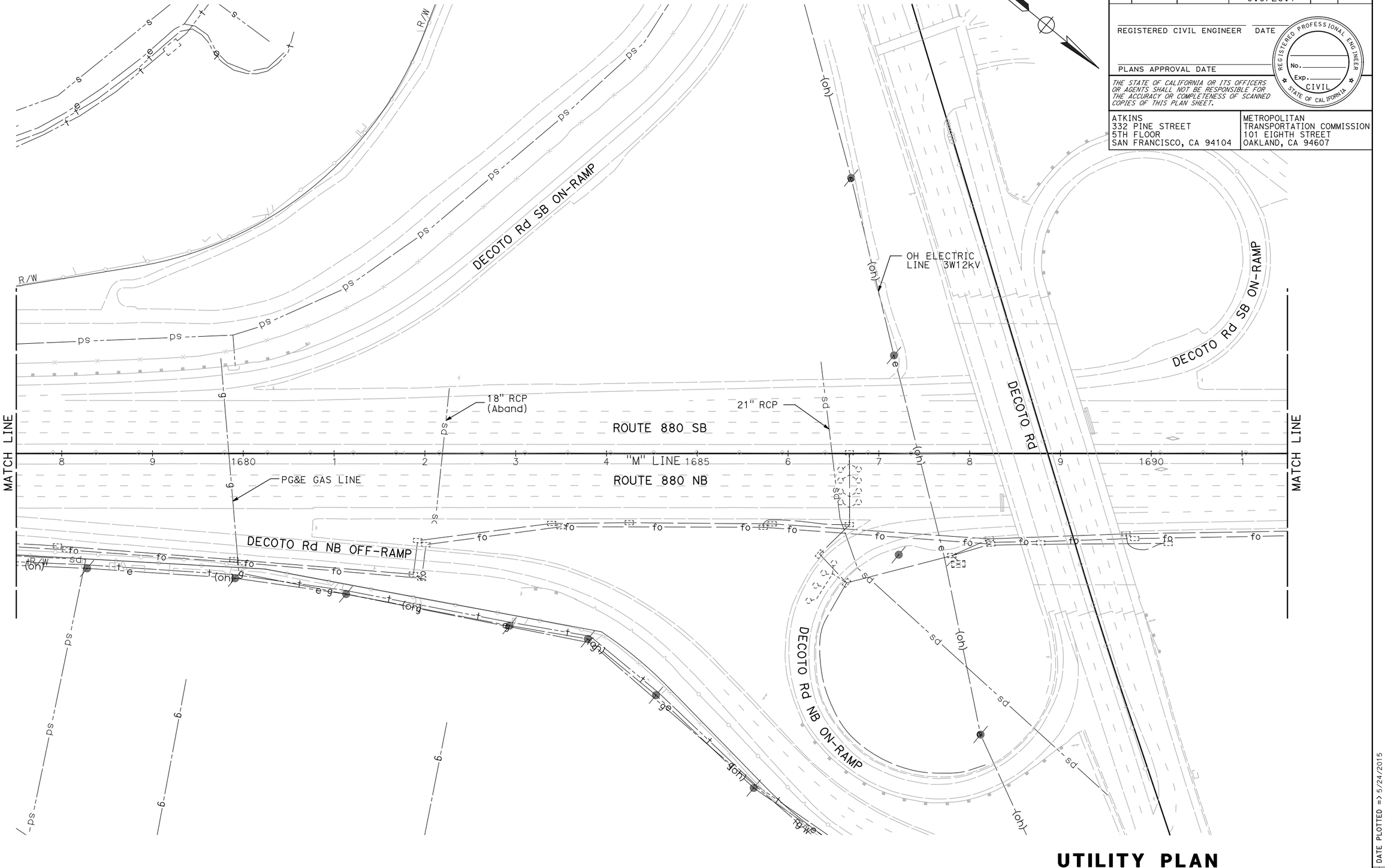
OAKLAND, CA 94607



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-48

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI
CHECKED BY: NATHAN COPE
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 8:06:06 PM

c:\pw_work\dtknaca01\zere2344\dms01003\ka049.dgn

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ka049.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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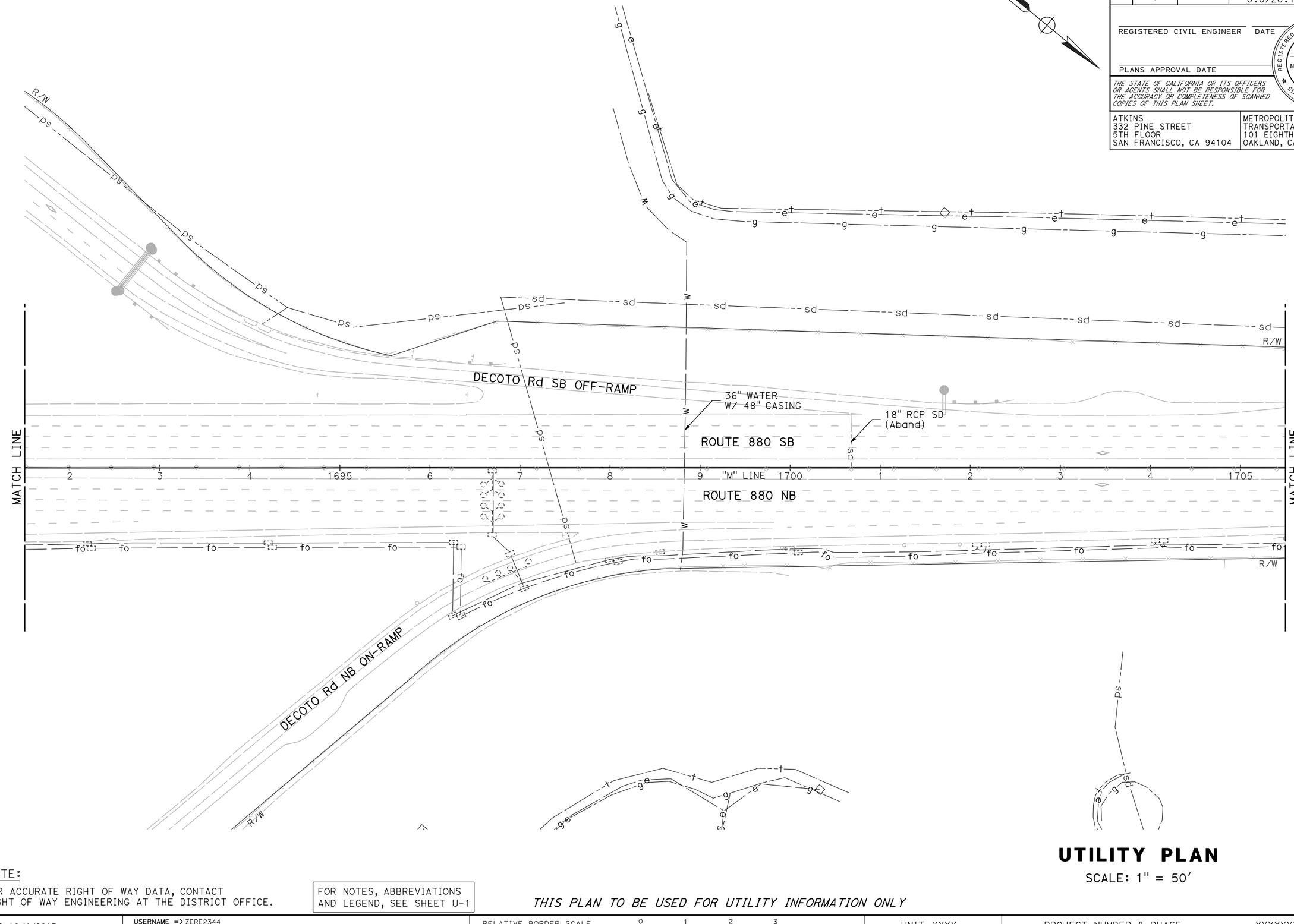
101 EIGHTH STREET
OAKLAND, CA 94607



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-49

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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c:\pw_work\atknaca01\zere2344\dms01003\ka050.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 8:07:42 PM

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ka050.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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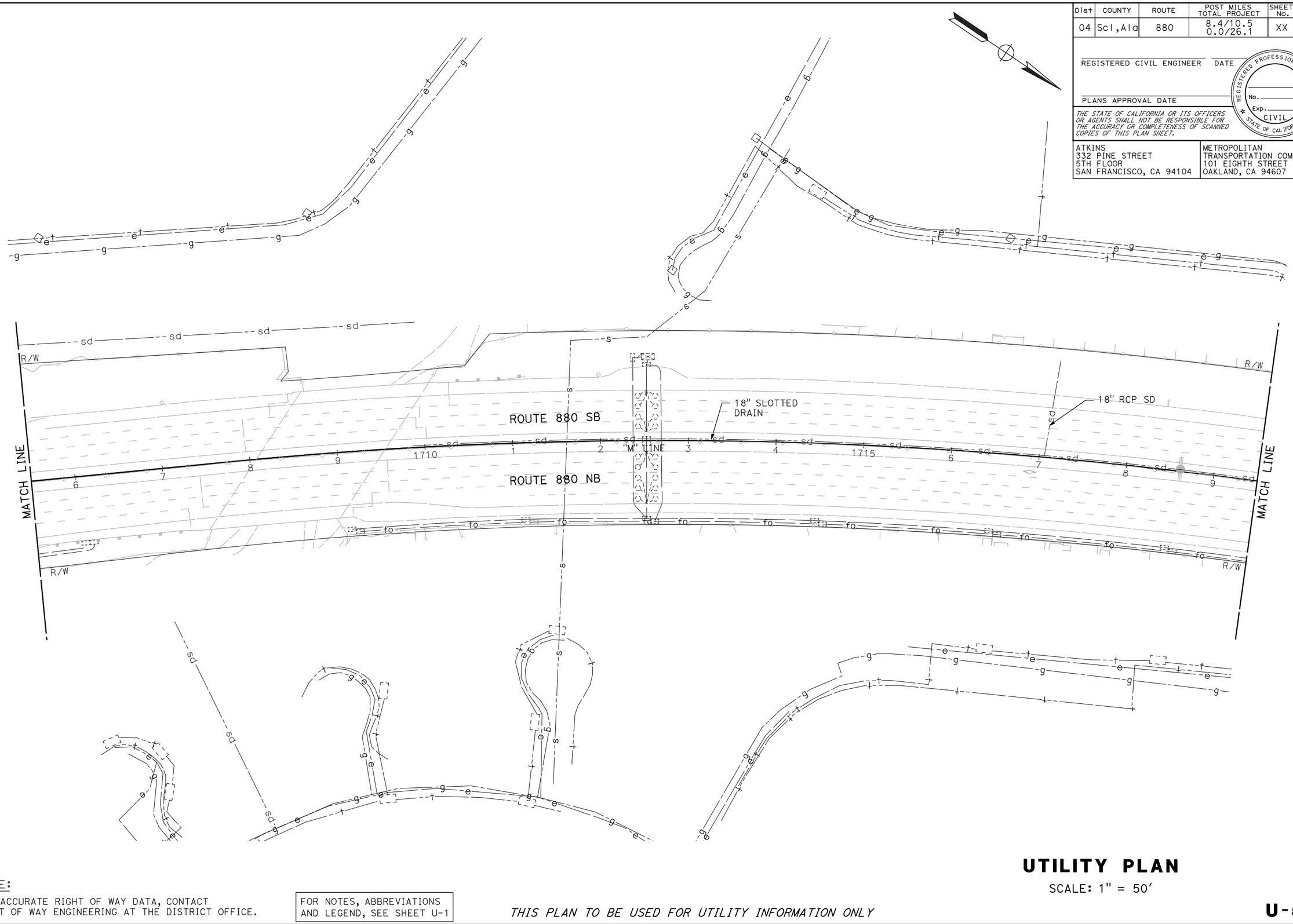
5TH FLOOR
SAN FRANCISCO, CA 94104

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-50

REVISED BY	DATE REVISED

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

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 8:09:16 PM

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ka051.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl, Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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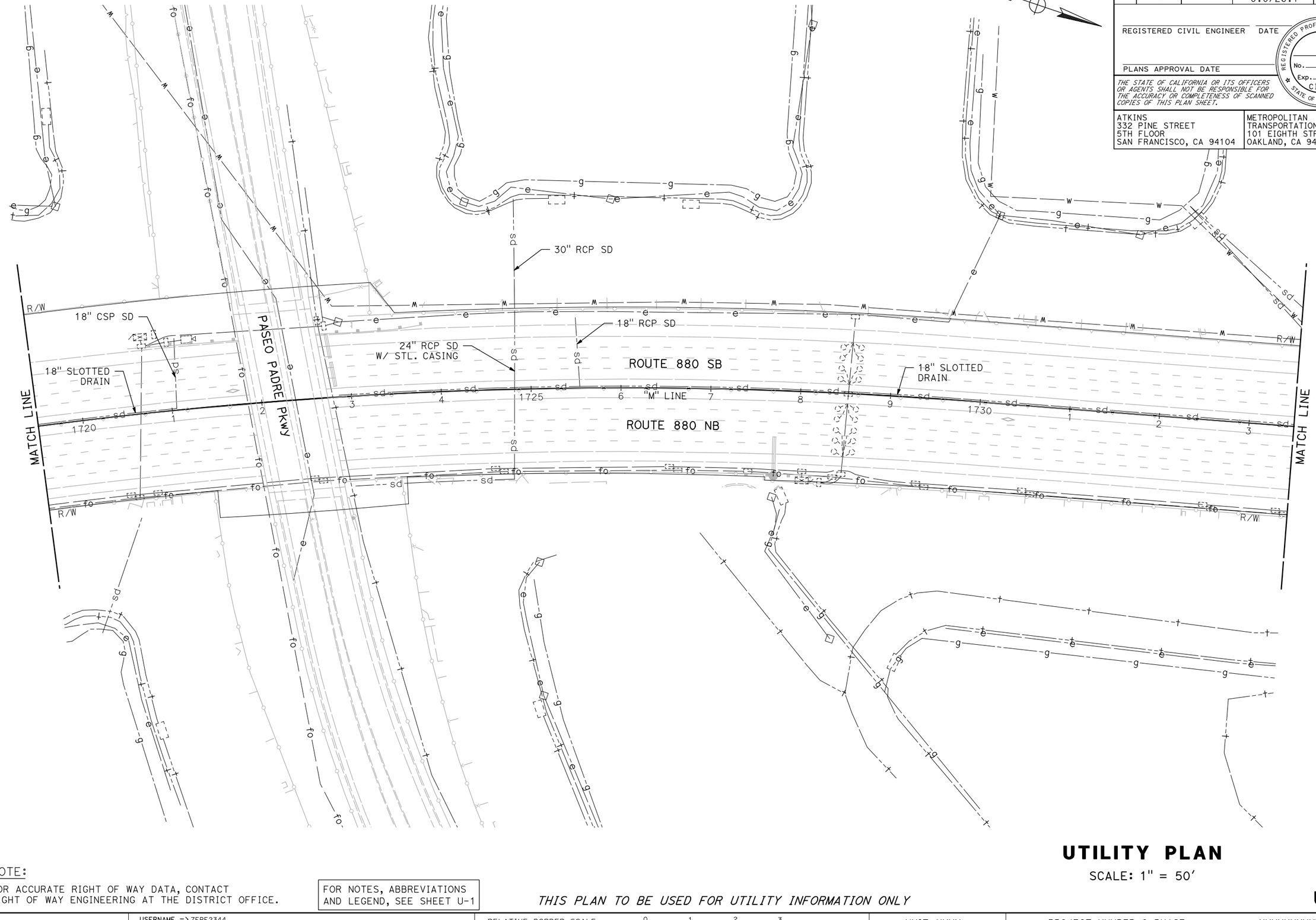
5TH FLOOR
SAN FRANCISCO, CA 94104

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

REVISED BY	DATE REVISED

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

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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c:\pw_work\dfknaca01\zere2344\dms01003\ka052.dgn

LAST REVISION DATE PLOTTED => 5/24/2015
00-00-00 TIME PLOTTED => 8:10:45 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ka052.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
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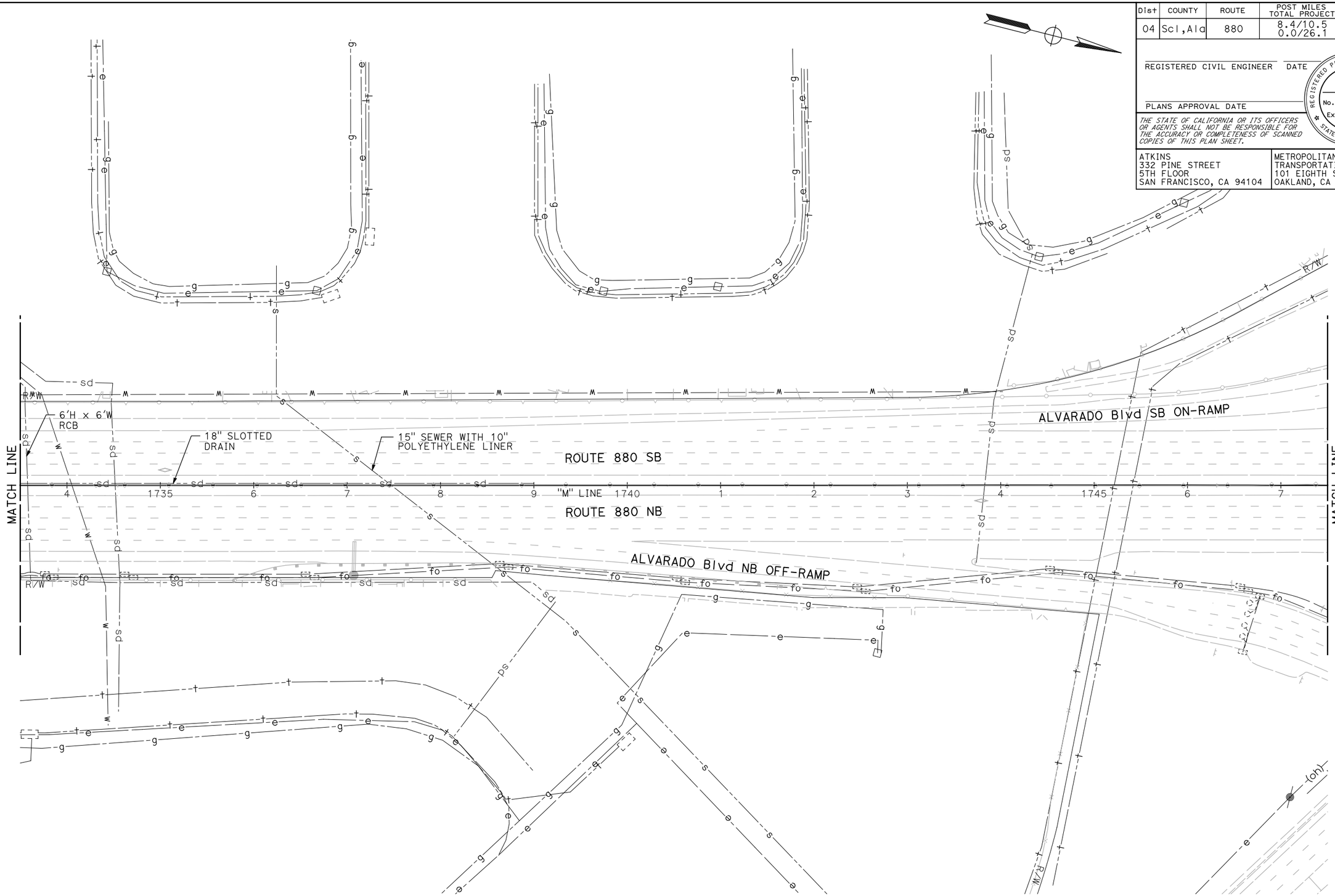
101 EIGHTH STREET
OAKLAND, CA 94607



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-52

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LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 8:12:20 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka053.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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R/W
ALVARADO Blvd SB ON-RAMP
PG&E AND TCI
OH ELECTRIC LINE
AND TV CABLE
ALVARADO Blvd
ROUTE 880 SB
ROUTE 880 NB
"M" LINE
MATCH LINE
MATCH LINE
18" SLOTTED
DRAIN
PACBELL CONDUIT
BANK
ALVARADO Blvd NB ON-RAMP
SANDHILL TERRACE
BOBWHITE TERRACE
1750
1755
1760

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

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Caltrans

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LAST REVISION
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 8:13:54 PM
00-00-00

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka054.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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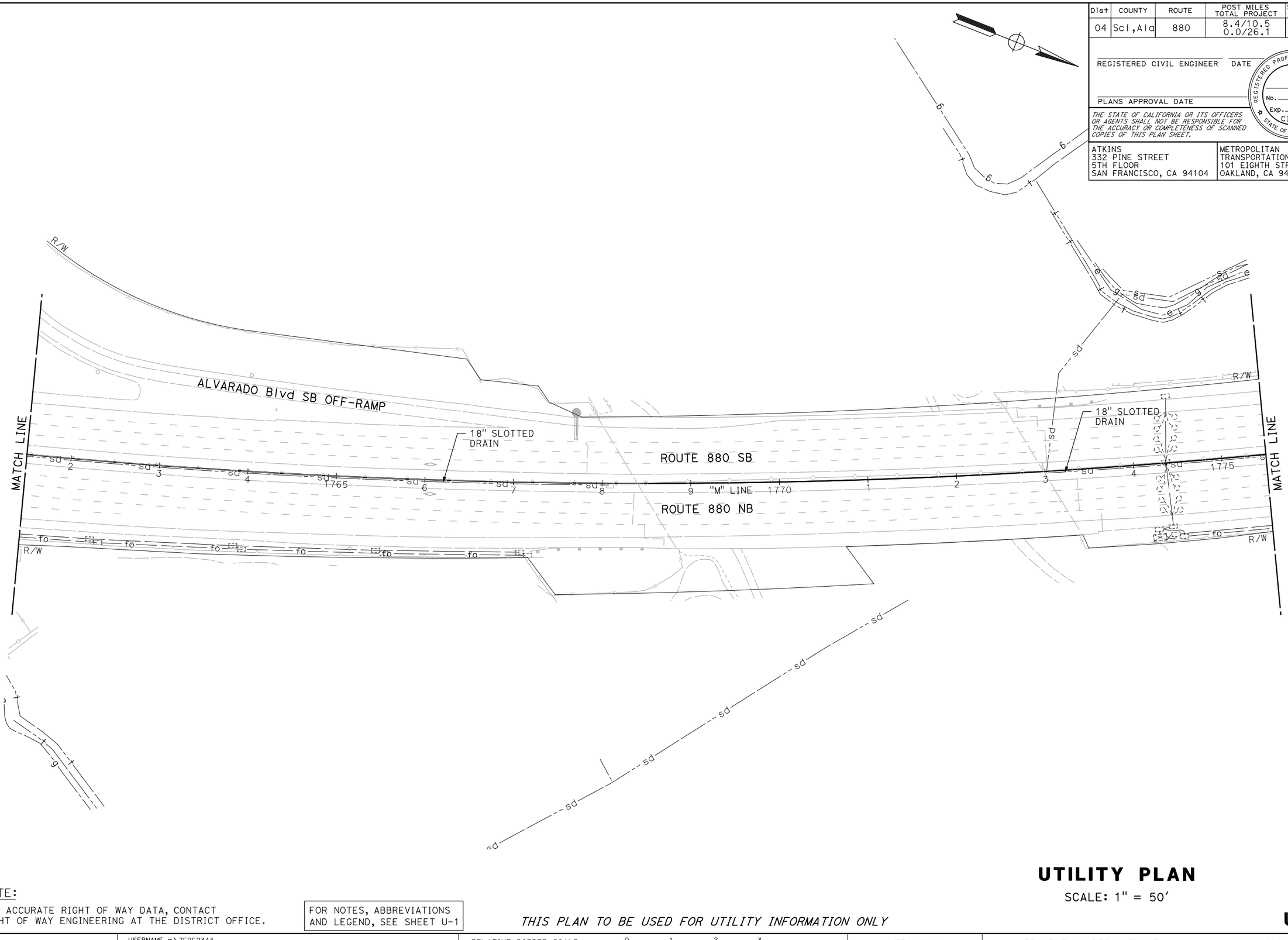
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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-54

REVISED BY | DATE REVISED

ARON ZEREZGHI | NATHAN COPE

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 8:15:27 PM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka055.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl, Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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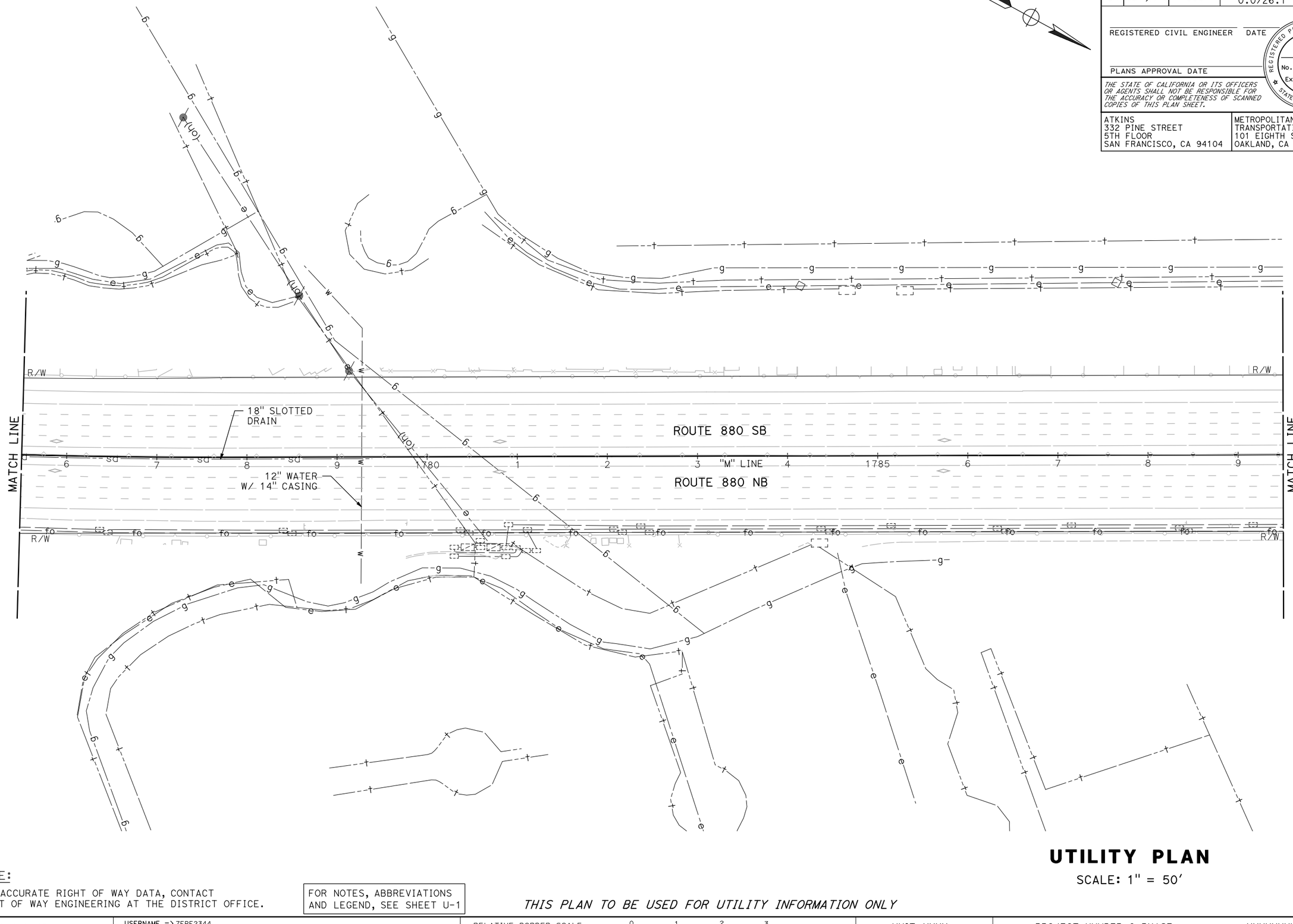
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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-55

REVISED BY | DATE REVISED

ARON ZEREZGHI | NATHAN COPE

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 8:17:07 PM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka056.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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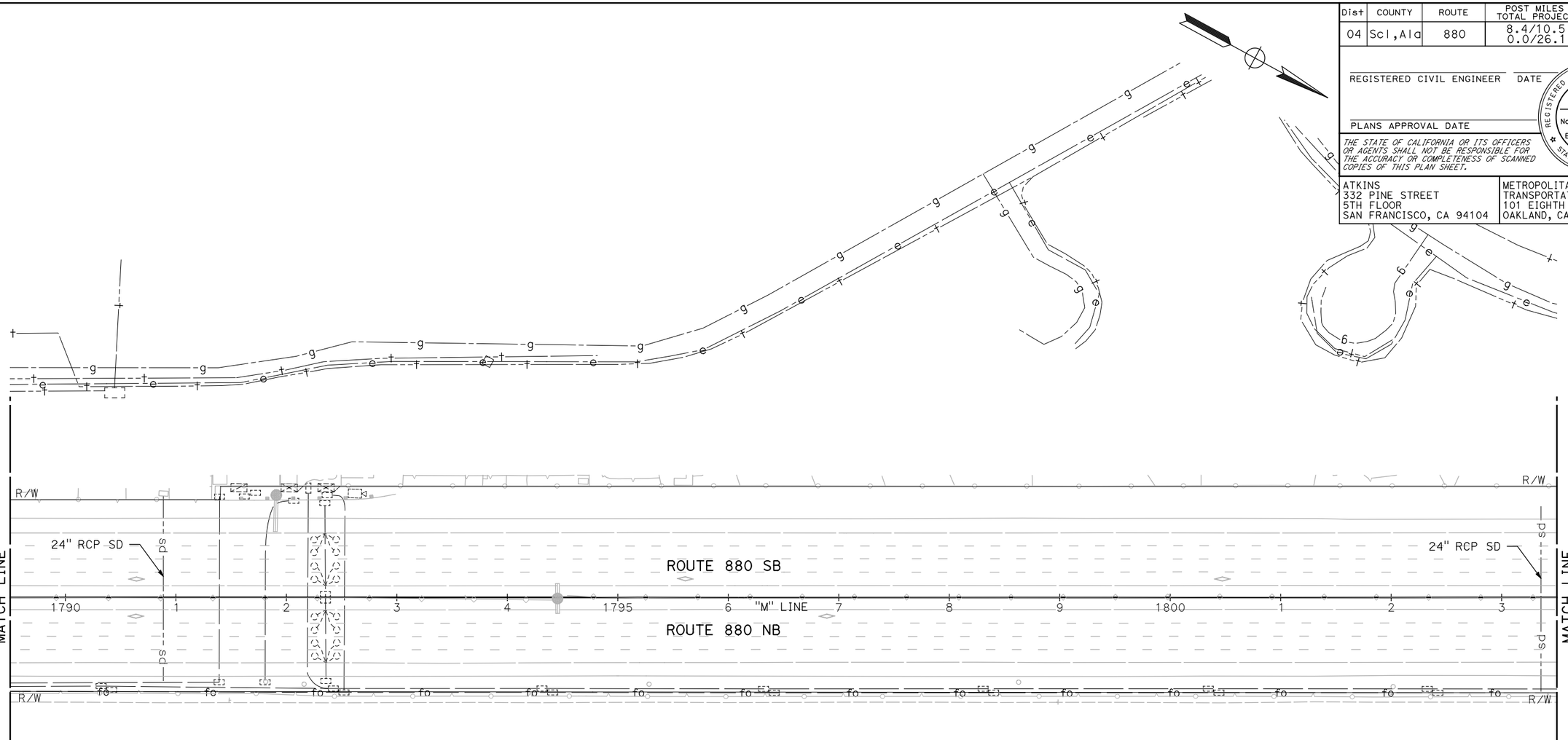
101 EIGHTH STREET
OAKLAND, CA 94607



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-56

REVISED BY | DATE REVISED

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 8:18:42 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka057.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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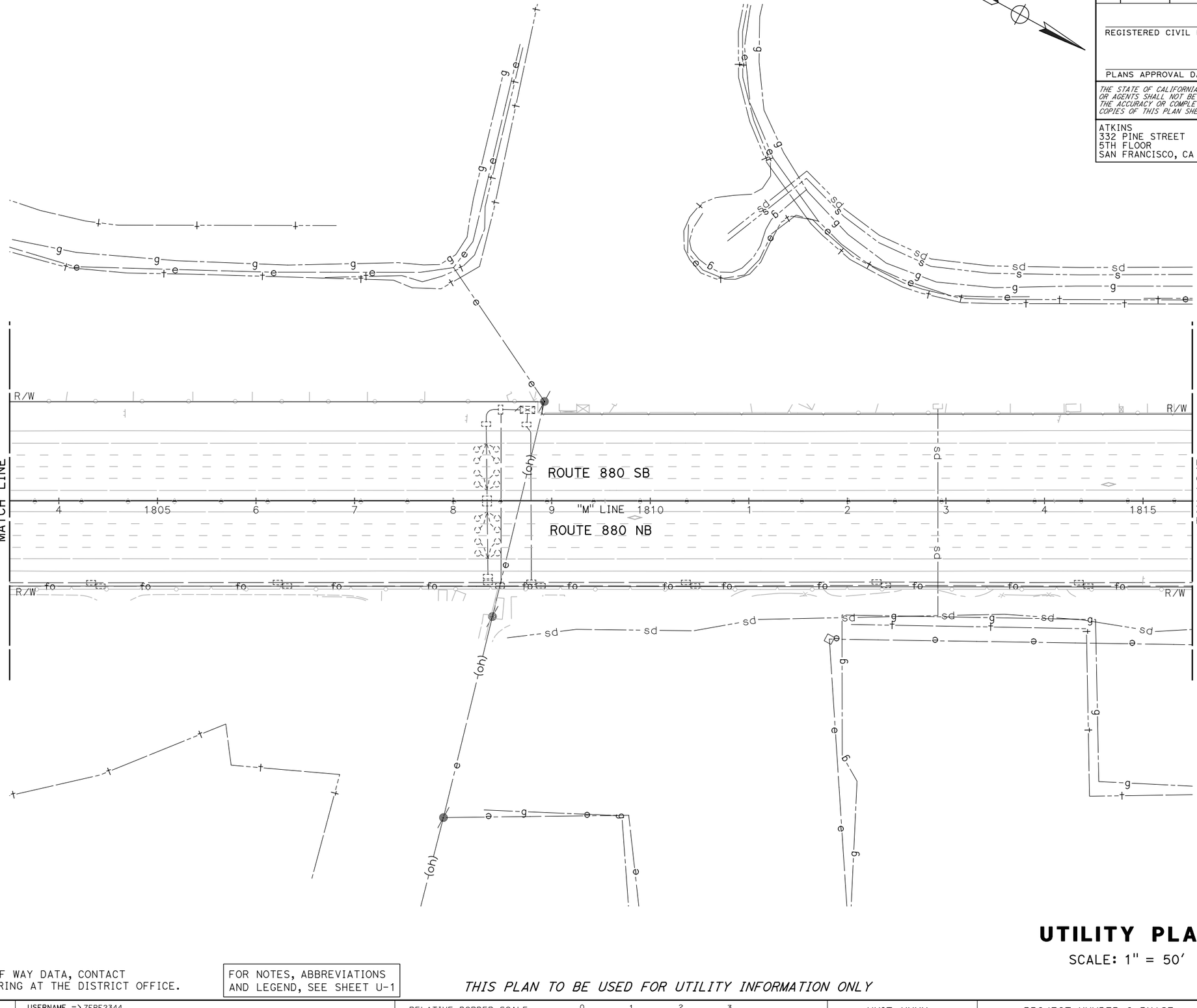
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



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-57

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI
CHECKED BY: NATHAN COPE
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 8:20:14 PM

c:\pw_work\atknaca01\zere2344\dms01003\ka058.dgn

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ka058.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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ATKINS
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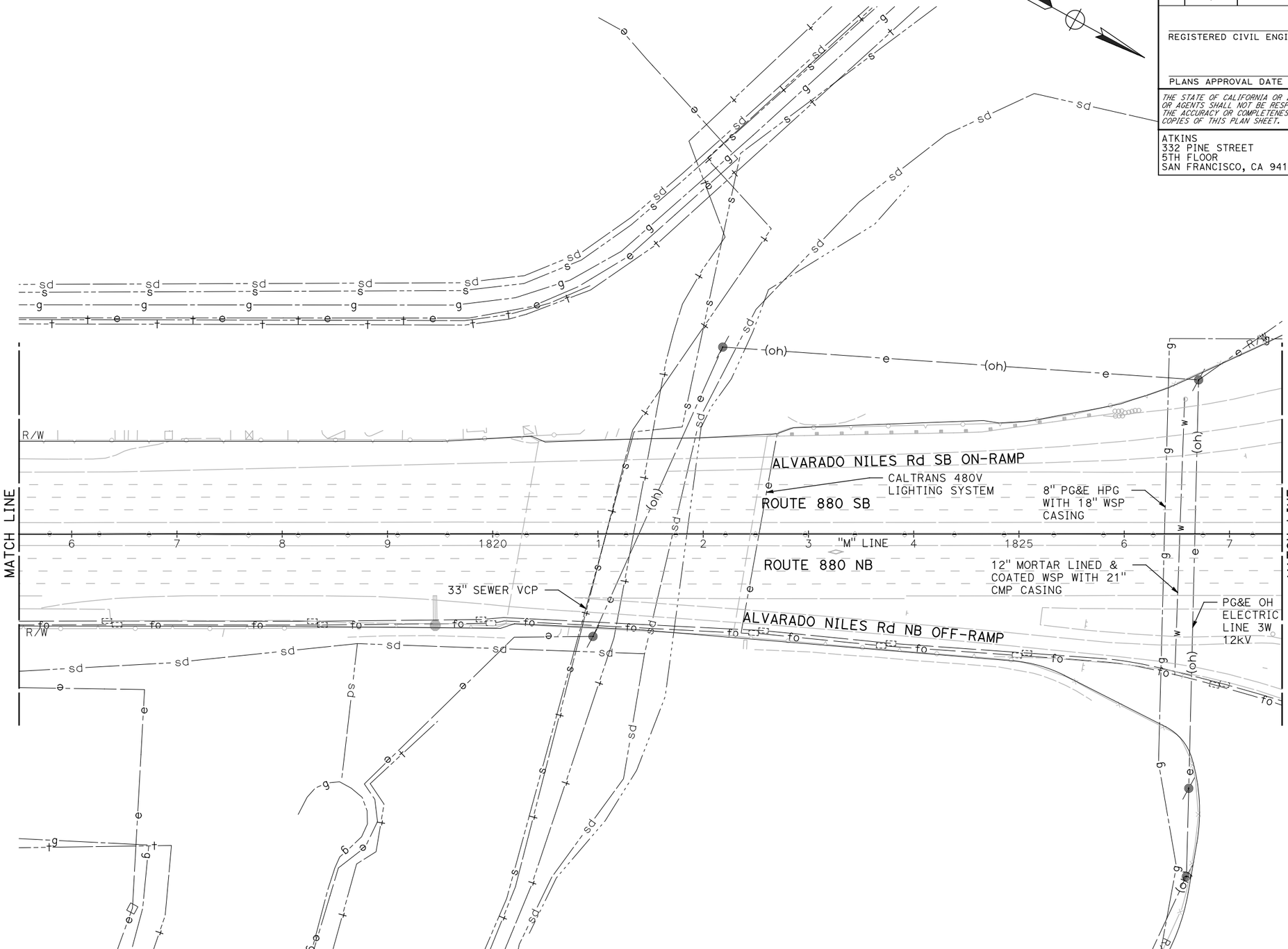
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION DATE PLOTTED => 5/24/2015
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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ka059.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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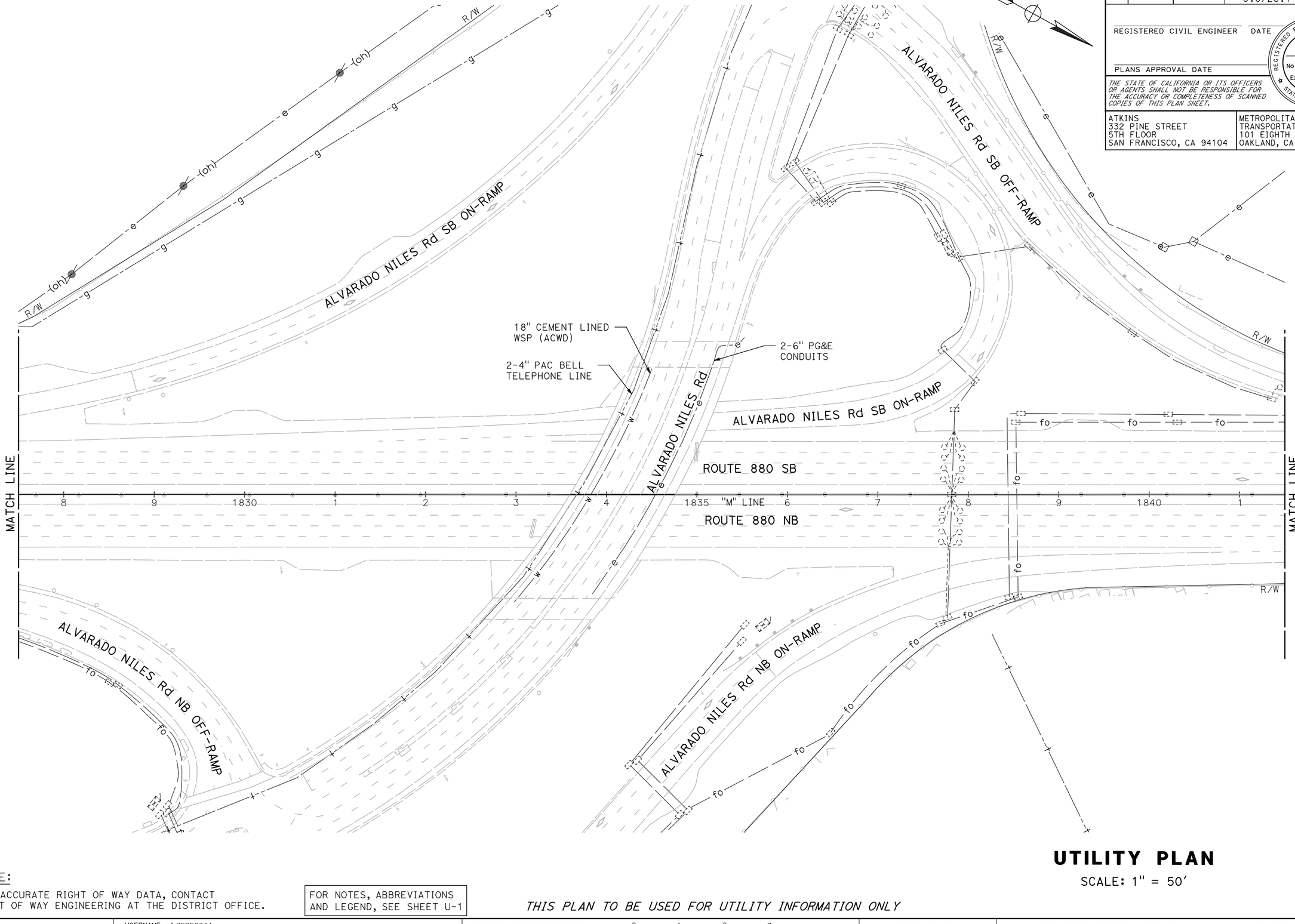
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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-59

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI

CHECKED BY: NATHAN COPE

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION DATE PLOTTED => 5/24/2015
00-00-00 TIME PLOTTED => 8:23:21 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka060.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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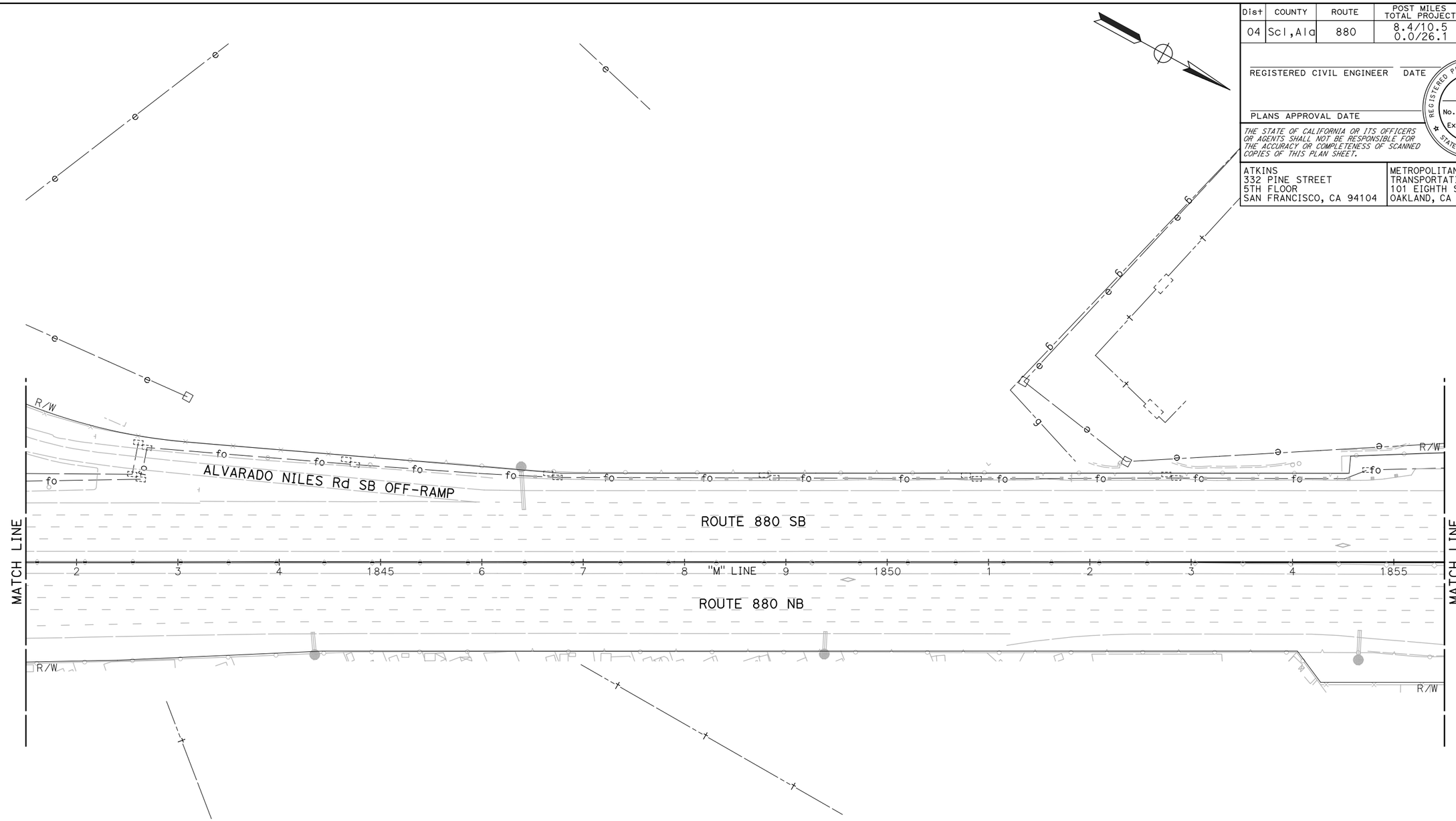
OAKLAND, CA 94607



NOTE:

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

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

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-60

REVISED BY	
DATE REVISED	
ARON ZEREZGHI	
NATHAN COPE	
CALCULATED-DESIGNED BY	
CHECKED BY	
CONSULTANT FUNCTIONAL SUPERVISOR	KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 8:24:57 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka061.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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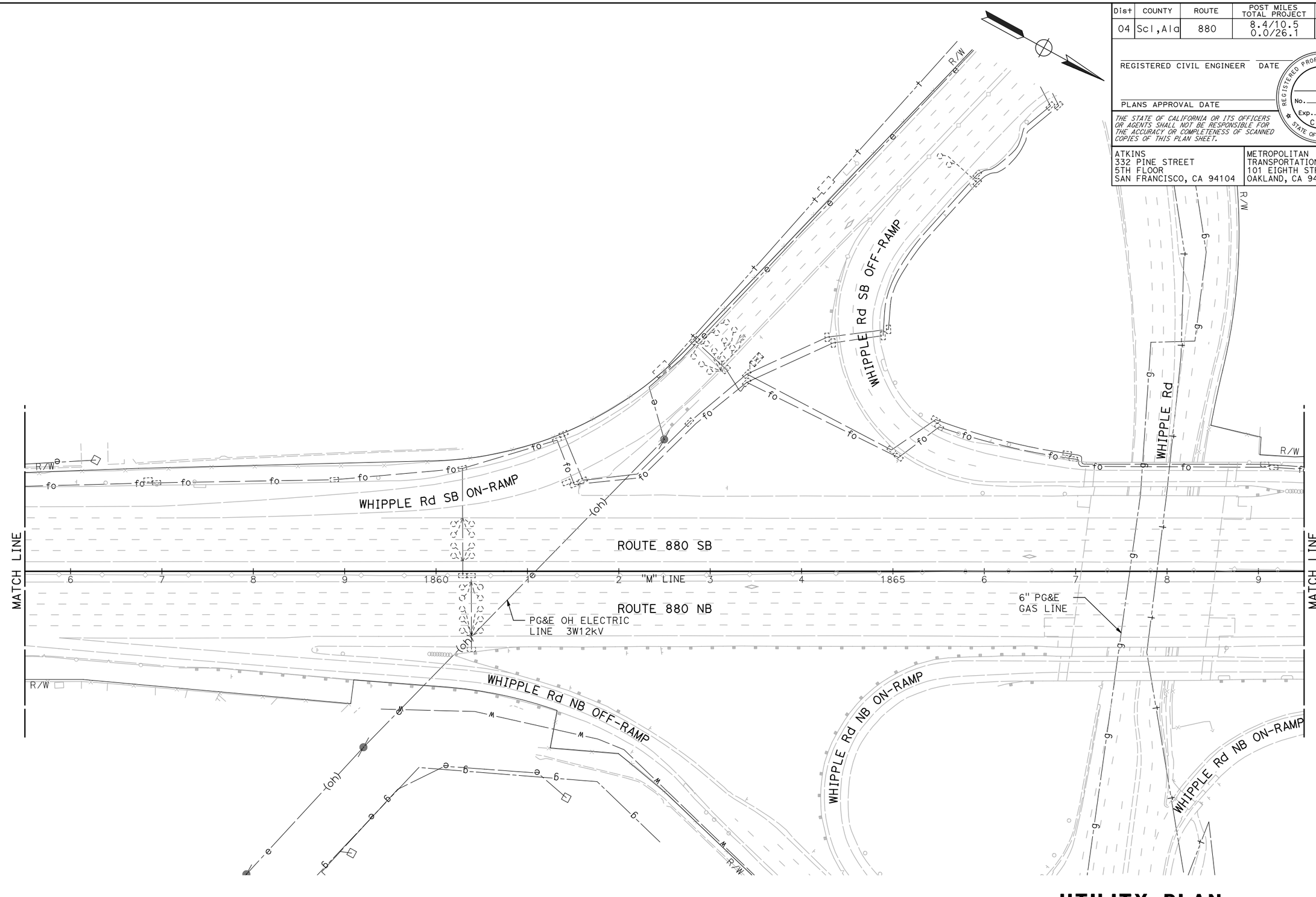
OAKLAND, CA 94607



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

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

REVISED BY	DATE REVISED

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

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 8:26:34 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

METROPOLITAN
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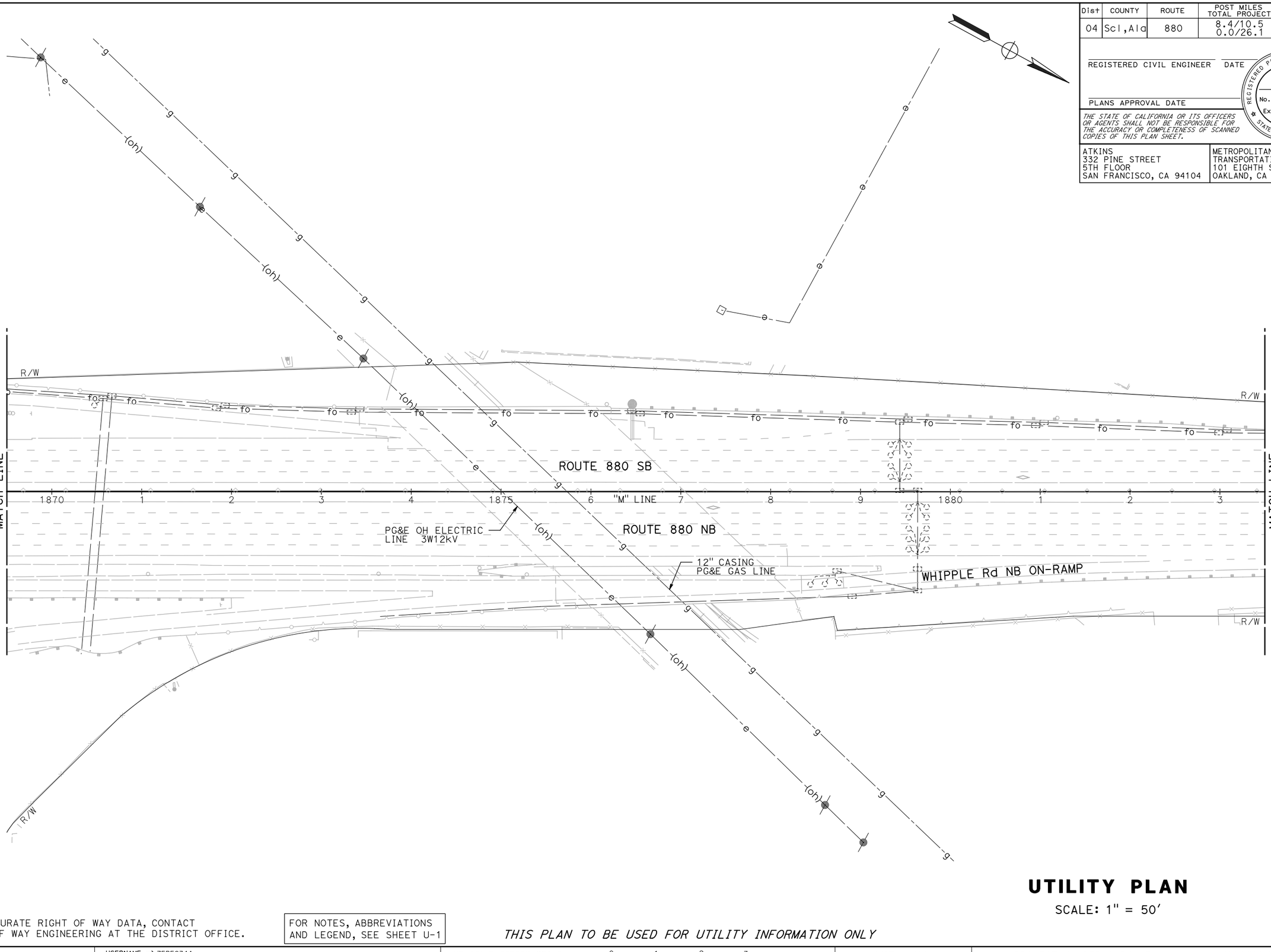
101 EIGHTH STREET
OAKLAND, CA 94607



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-62

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 8:28:17 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

METROPOLITAN
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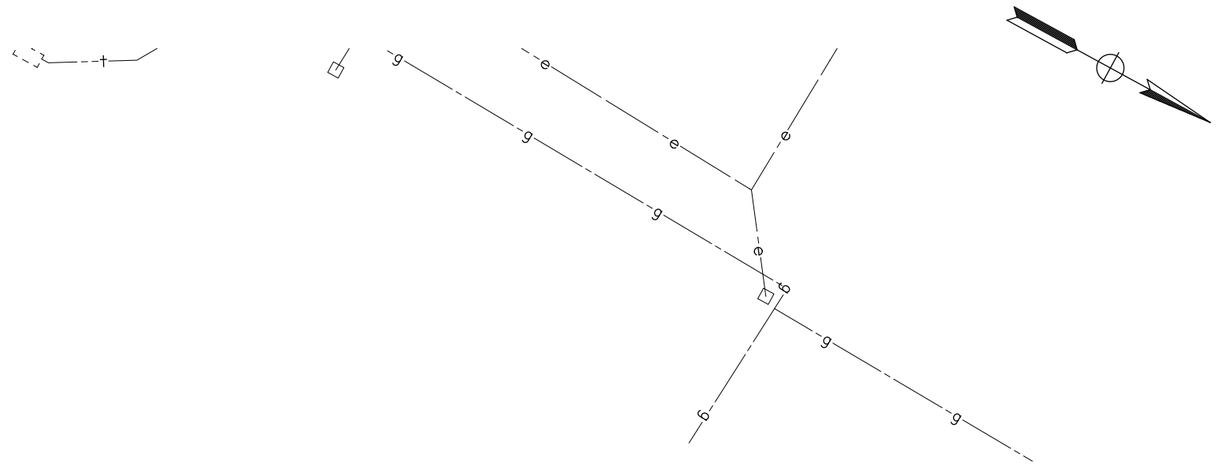
OAKLAND, CA 94607



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

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-63

REVISED BY | DATE REVISED

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka064.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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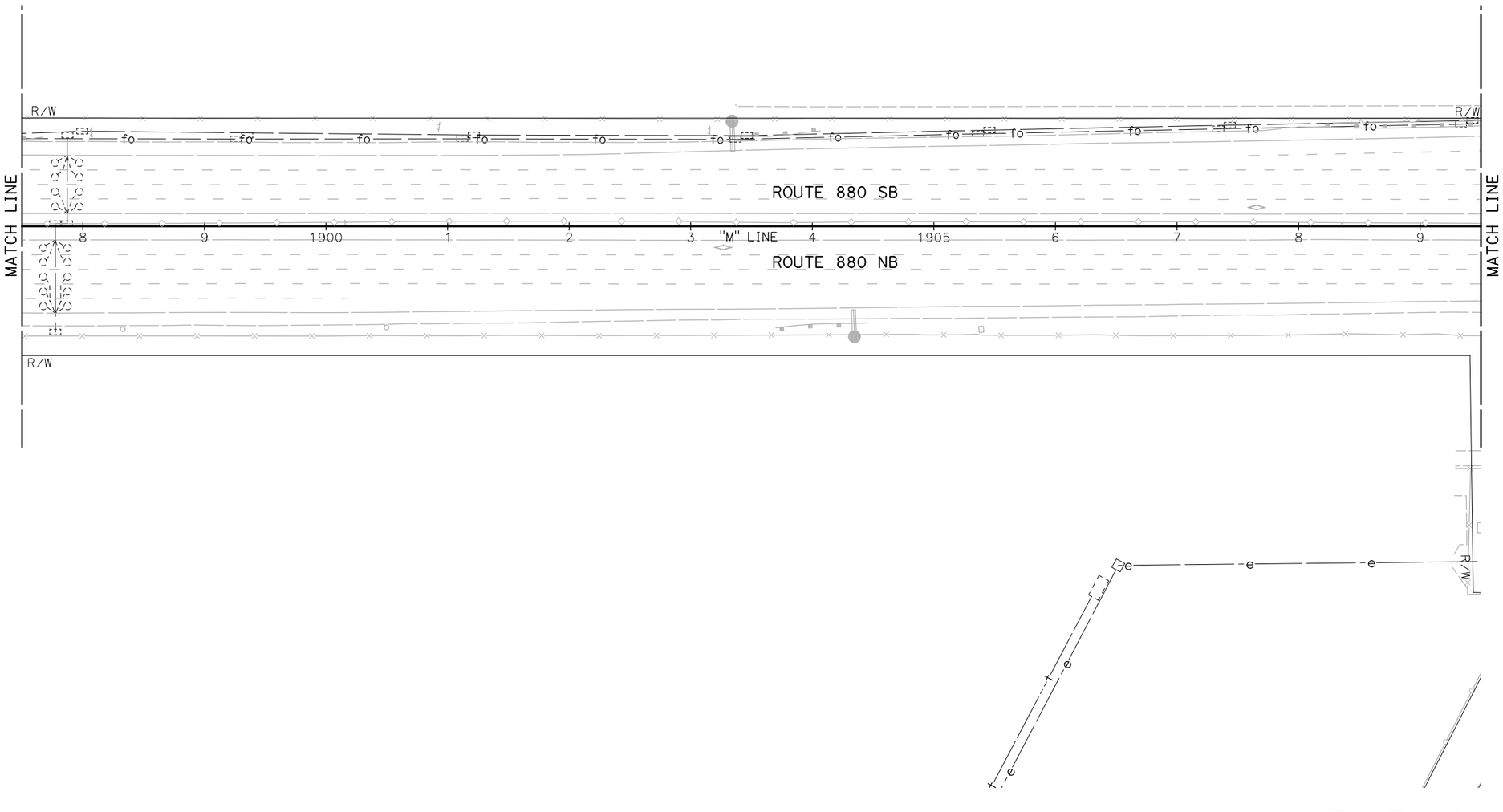
OAKLAND, CA 94607



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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U-64

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CALCULATED-DESIGNED BY: ARON ZEREZGHI

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 8:31:29 PM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka065.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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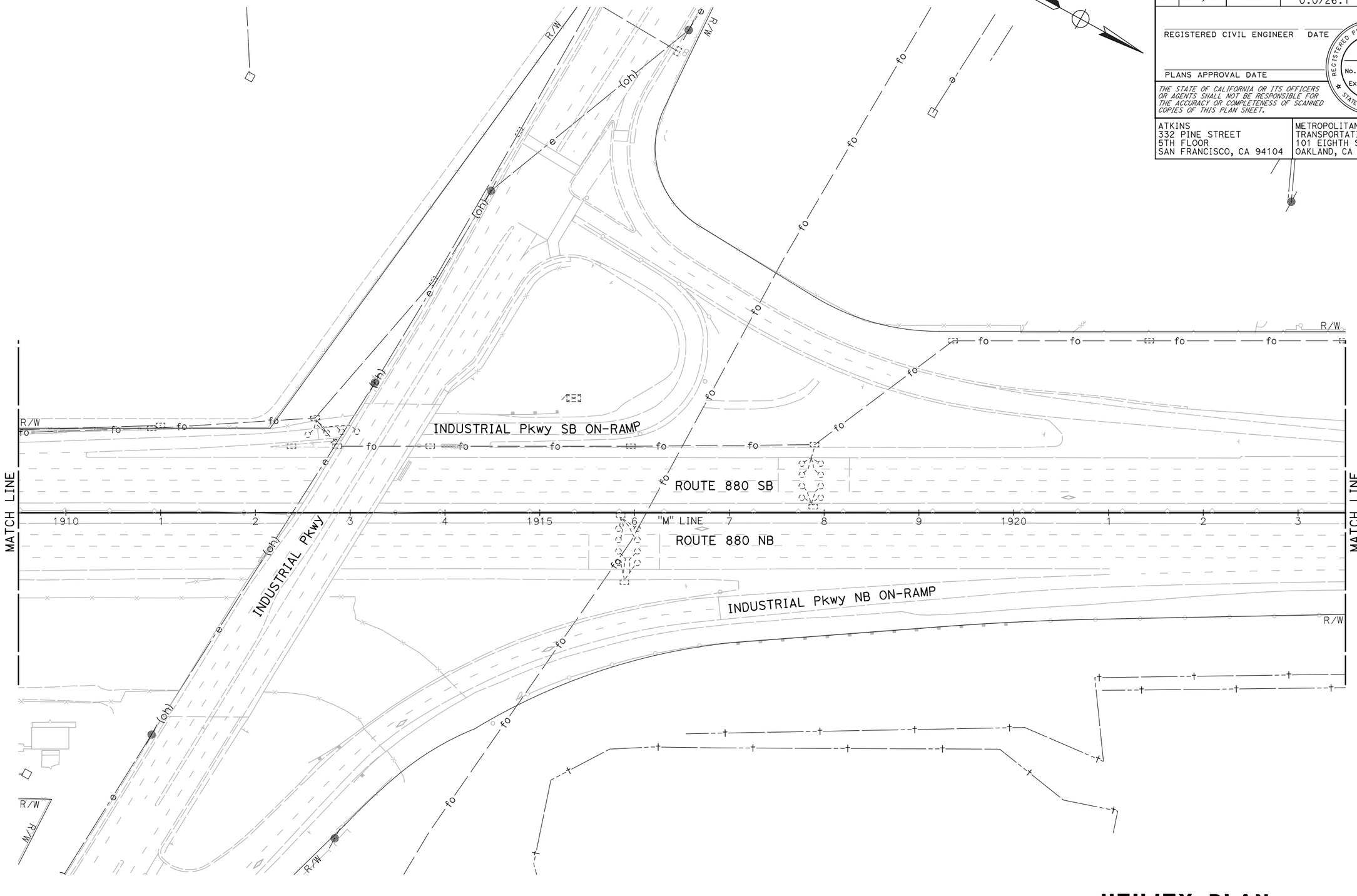
OAKLAND, CA 94607



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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U-65

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CALCULATED-DESIGNED BY: ARON ZEREZGHI

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 8:33:03 PM | 00-00-00

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka066.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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SAN FRANCISCO, CA 94104

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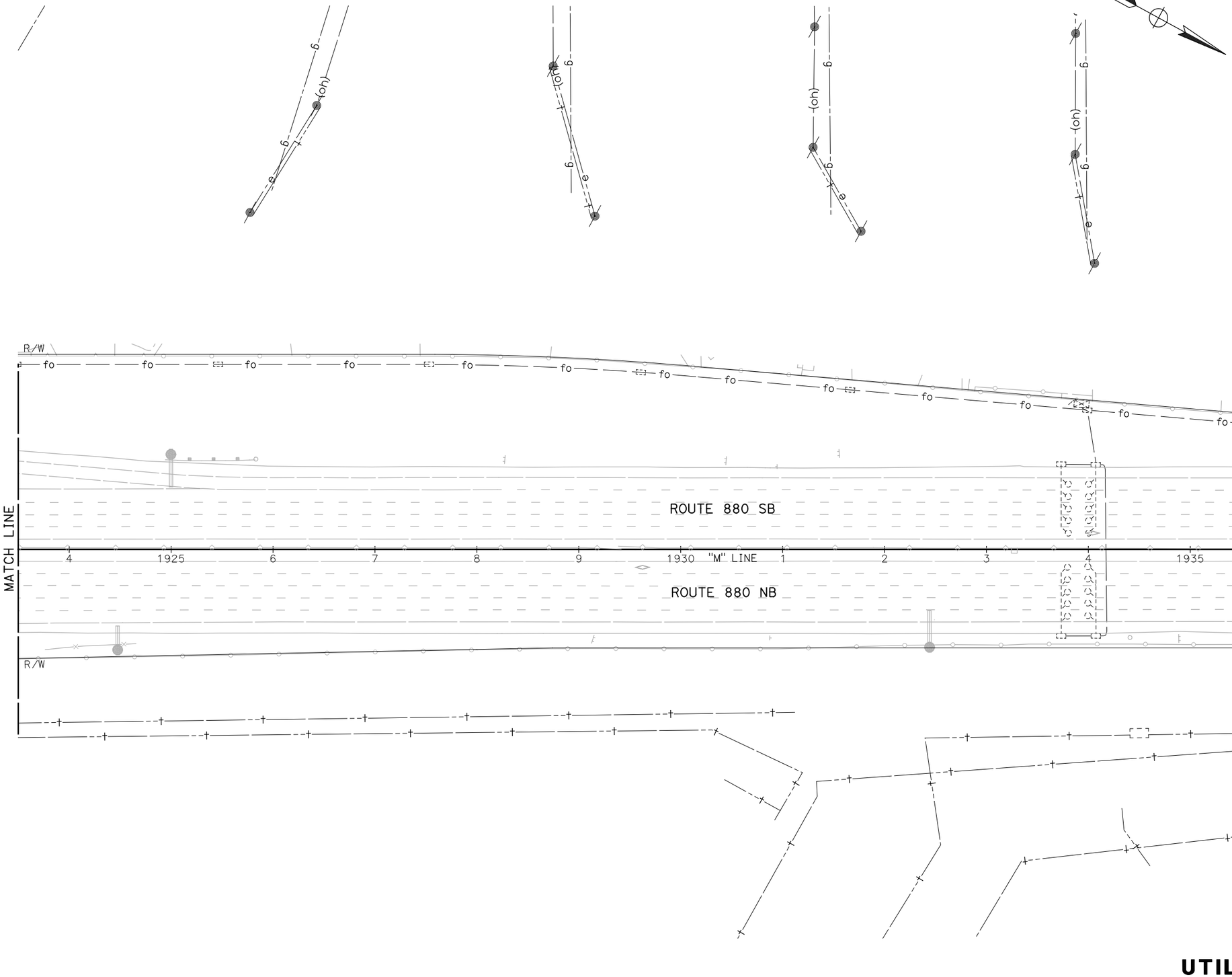
101 EIGHTH STREET
OAKLAND, CA 94607



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-66

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI

CHECKED BY: NATHAN COPE

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION: 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 8:34:43 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka067.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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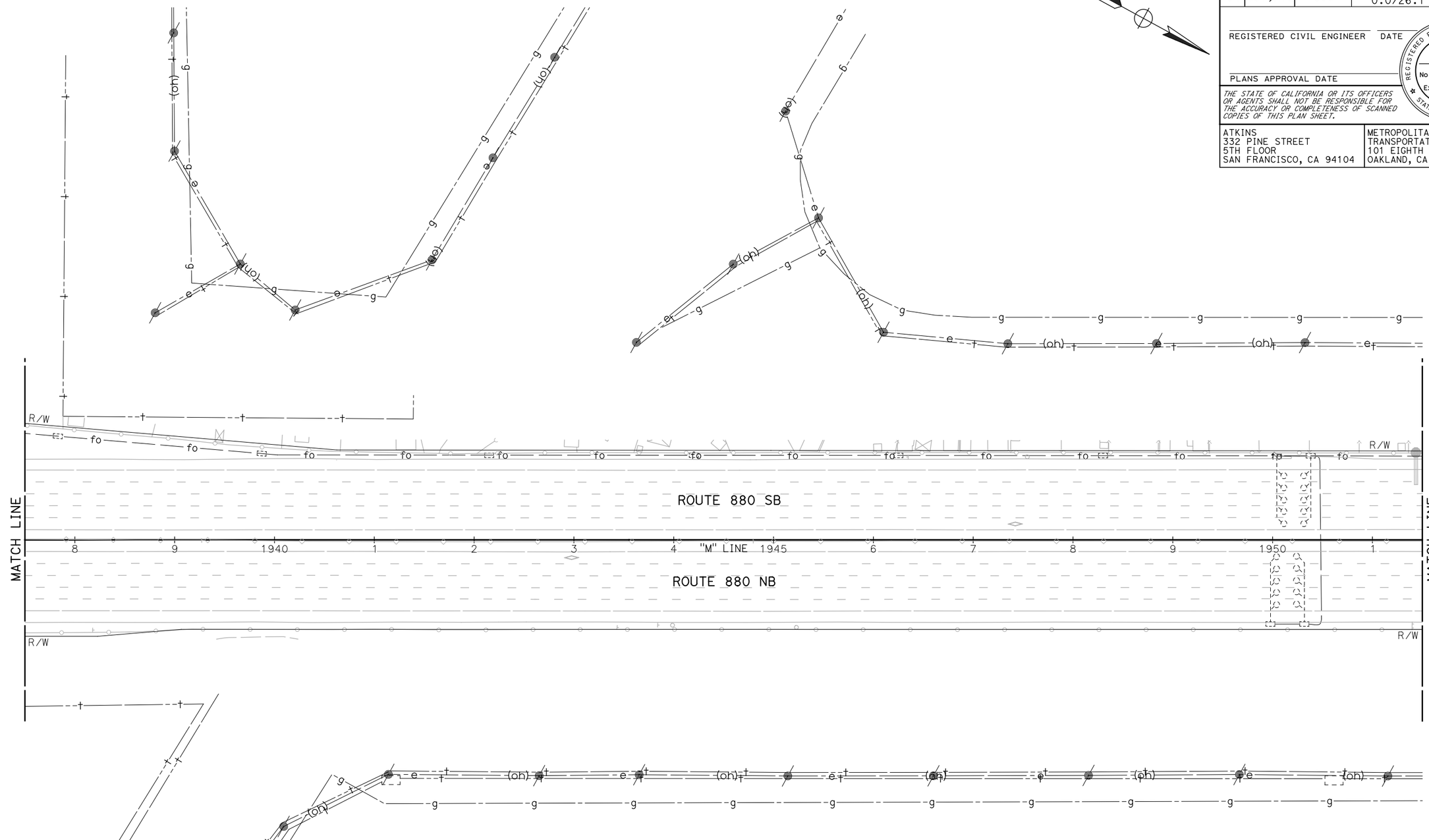
OAKLAND, CA 94607



NOTE:

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

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

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UTILITY PLAN

SCALE: 1" = 50'

U-67

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ka068.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 8:36:24 PM

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ka068.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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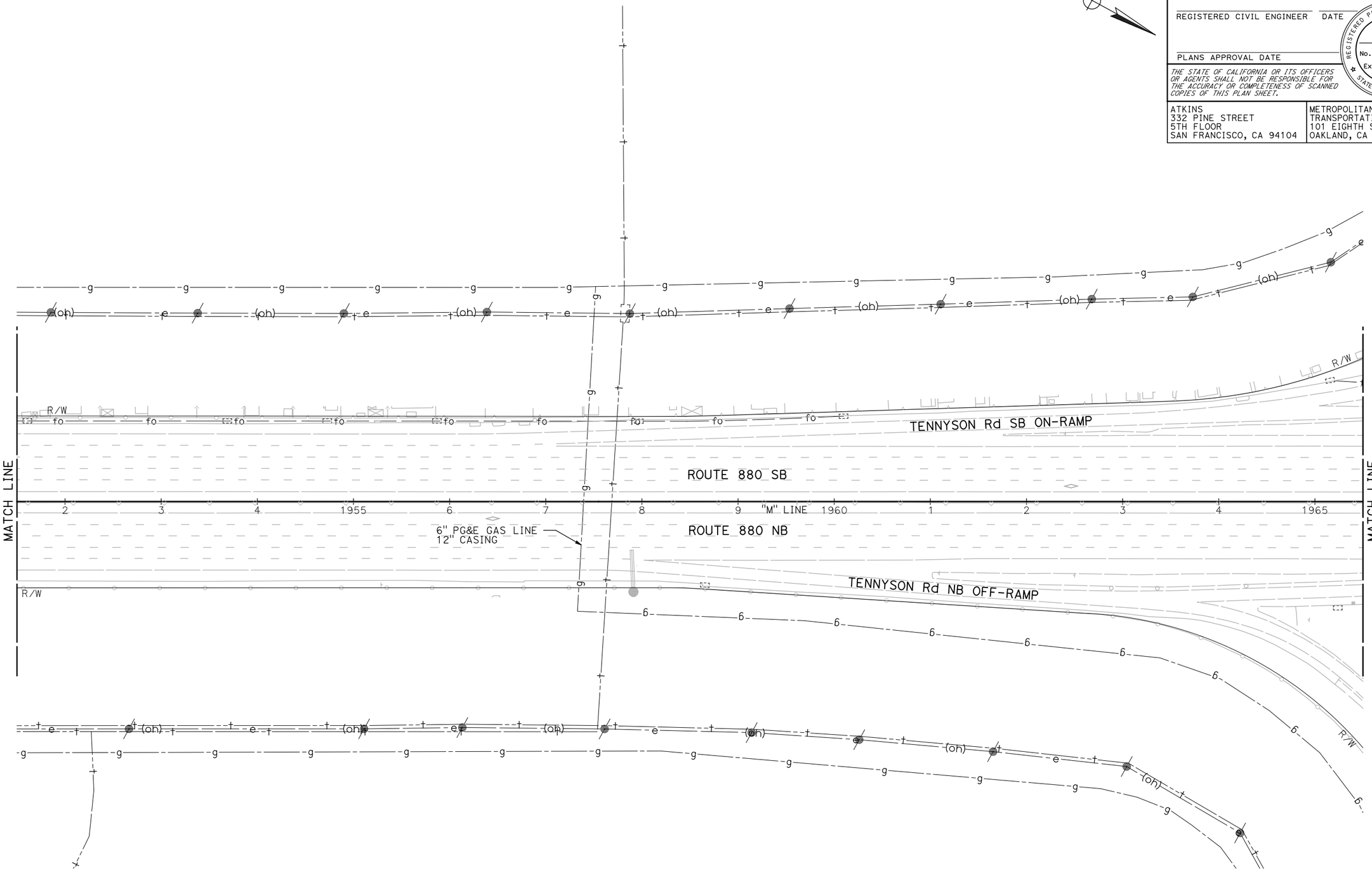
OAKLAND, CA 94607



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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U-68

REVISED BY	DATE REVISED

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

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 8:38:05 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka069.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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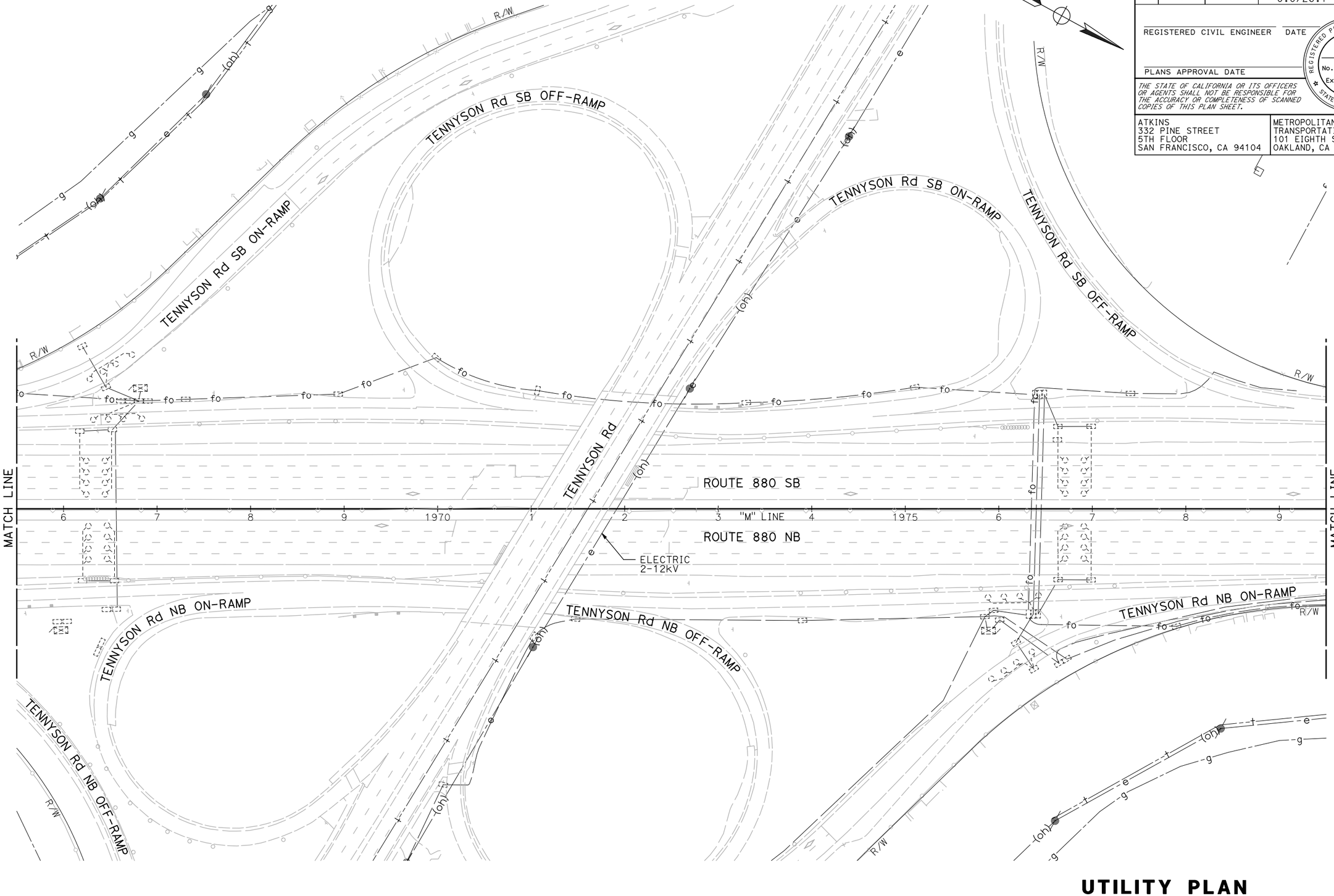
101 EIGHTH STREET
OAKLAND, CA 94607



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-69

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI
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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION 00-00-00 DATE PLOTTED => 5/24/2015 TIME PLOTTED => 8:39:47 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ka070.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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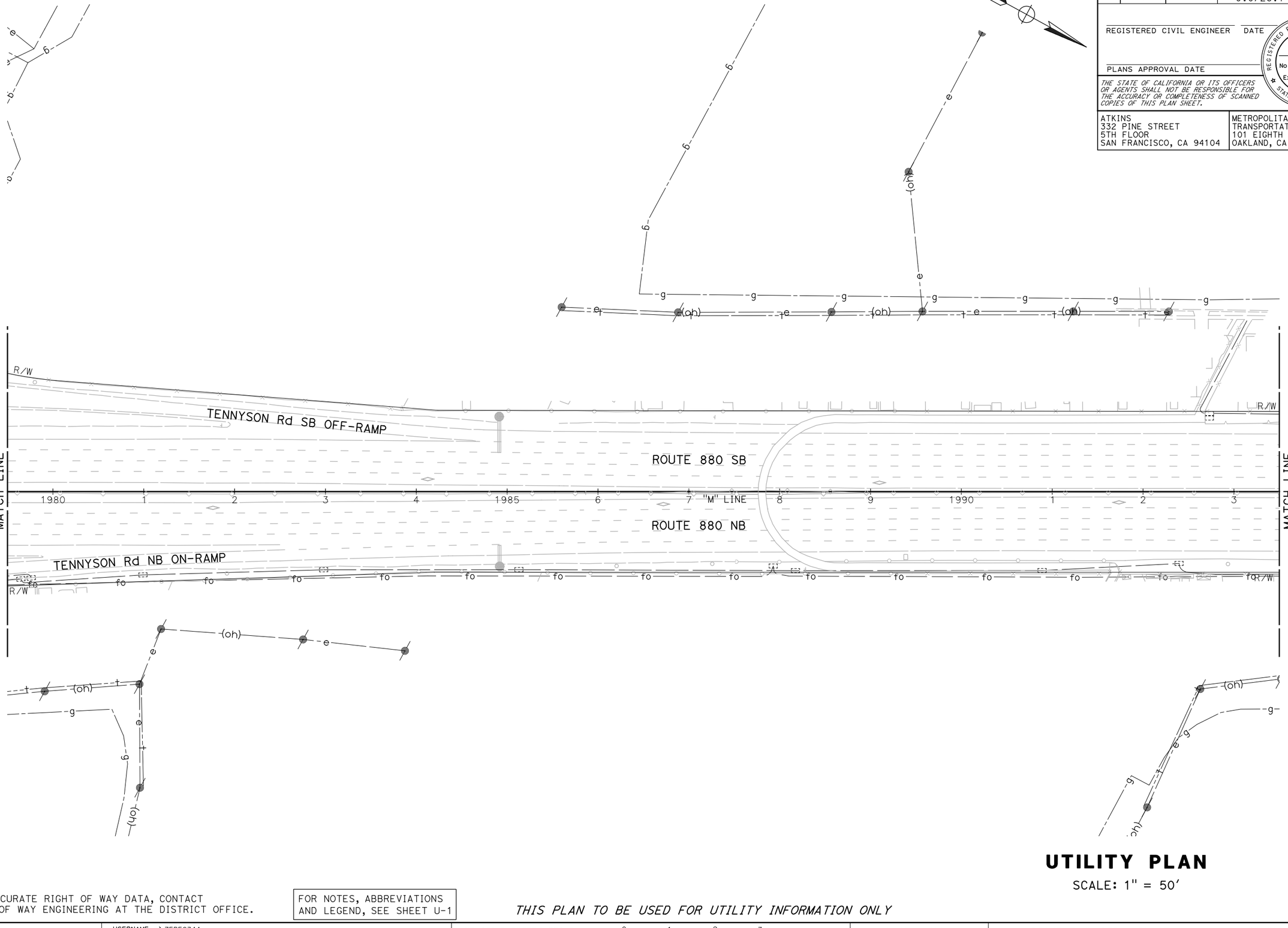
SAN FRANCISCO, CA 94104

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'

REVISED BY	DATE REVISED

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

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LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 8:41:26 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka071.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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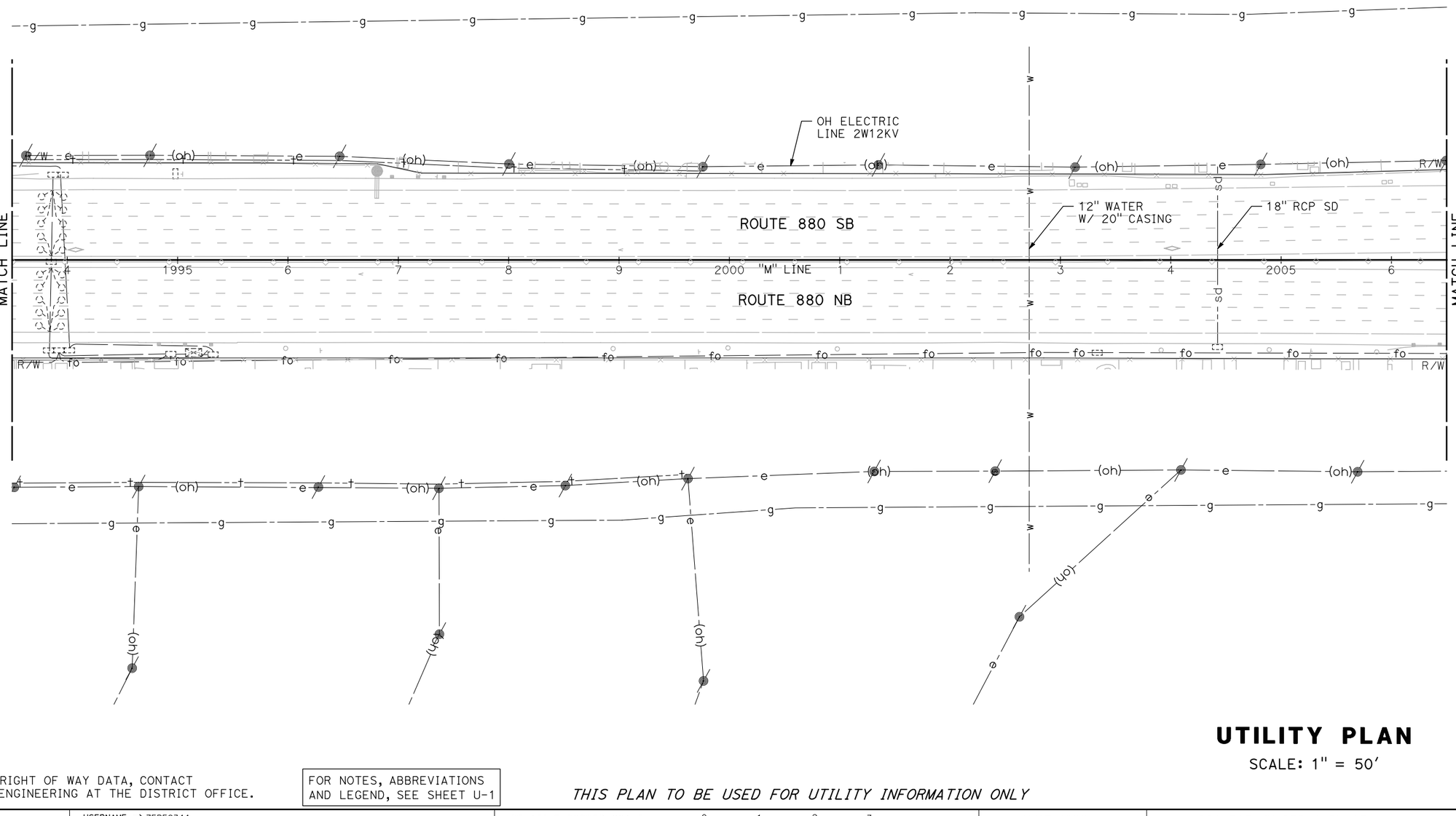
5TH FLOOR
SAN FRANCISCO, CA 94104

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-71

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI
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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION DATE PLOTTED => 5/24/2015
00-00-00 TIME PLOTTED => 8:43:05 PM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka072.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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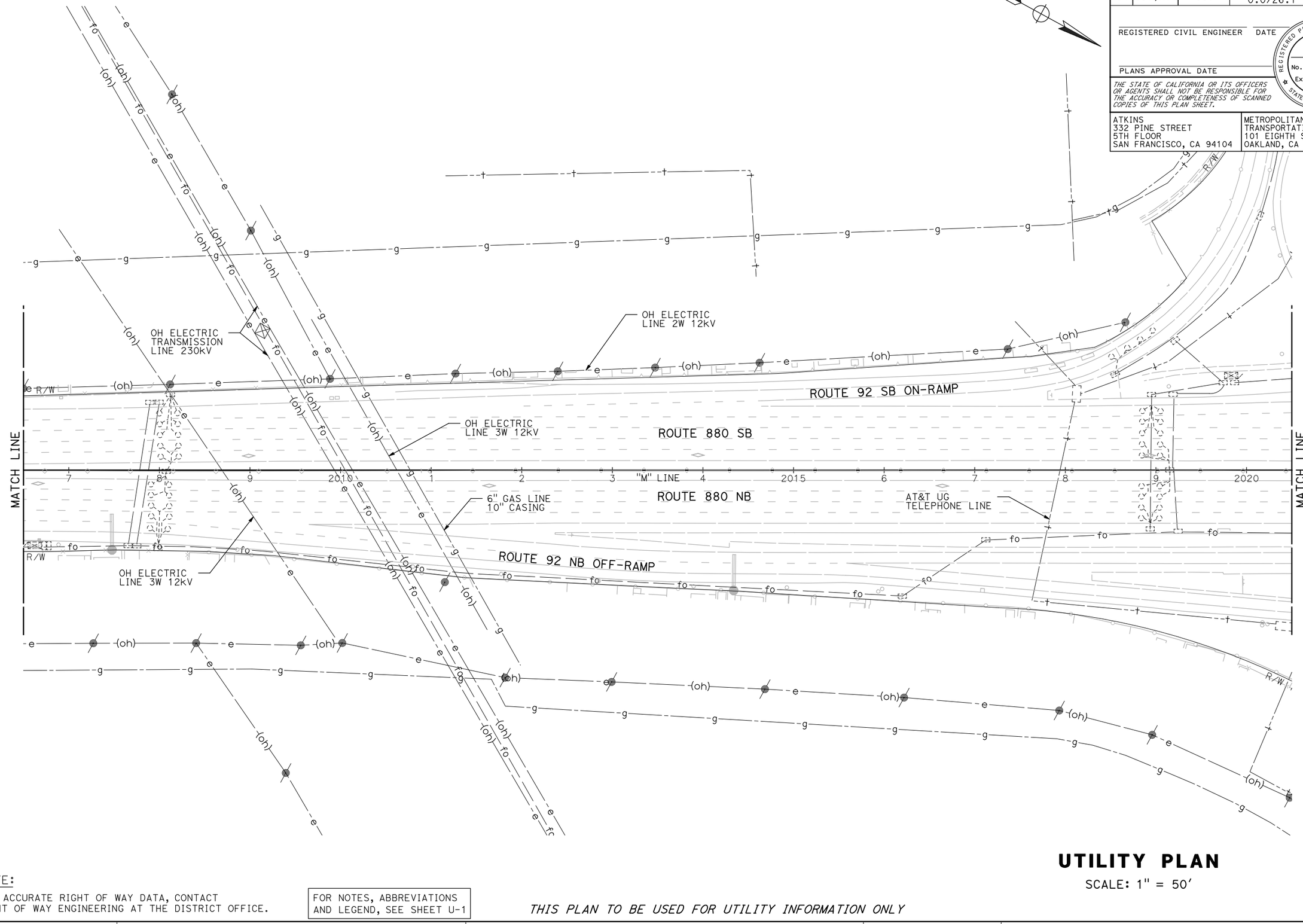
5TH FLOOR
SAN FRANCISCO, CA 94104

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-72

REVISED BY | DATE REVISED

ARON ZEREZGHI | NATHAN COPE

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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c:\pw_work\atknacq01\zere2344\dms01003\ka073.dgn

LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 8:44:45 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka073.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

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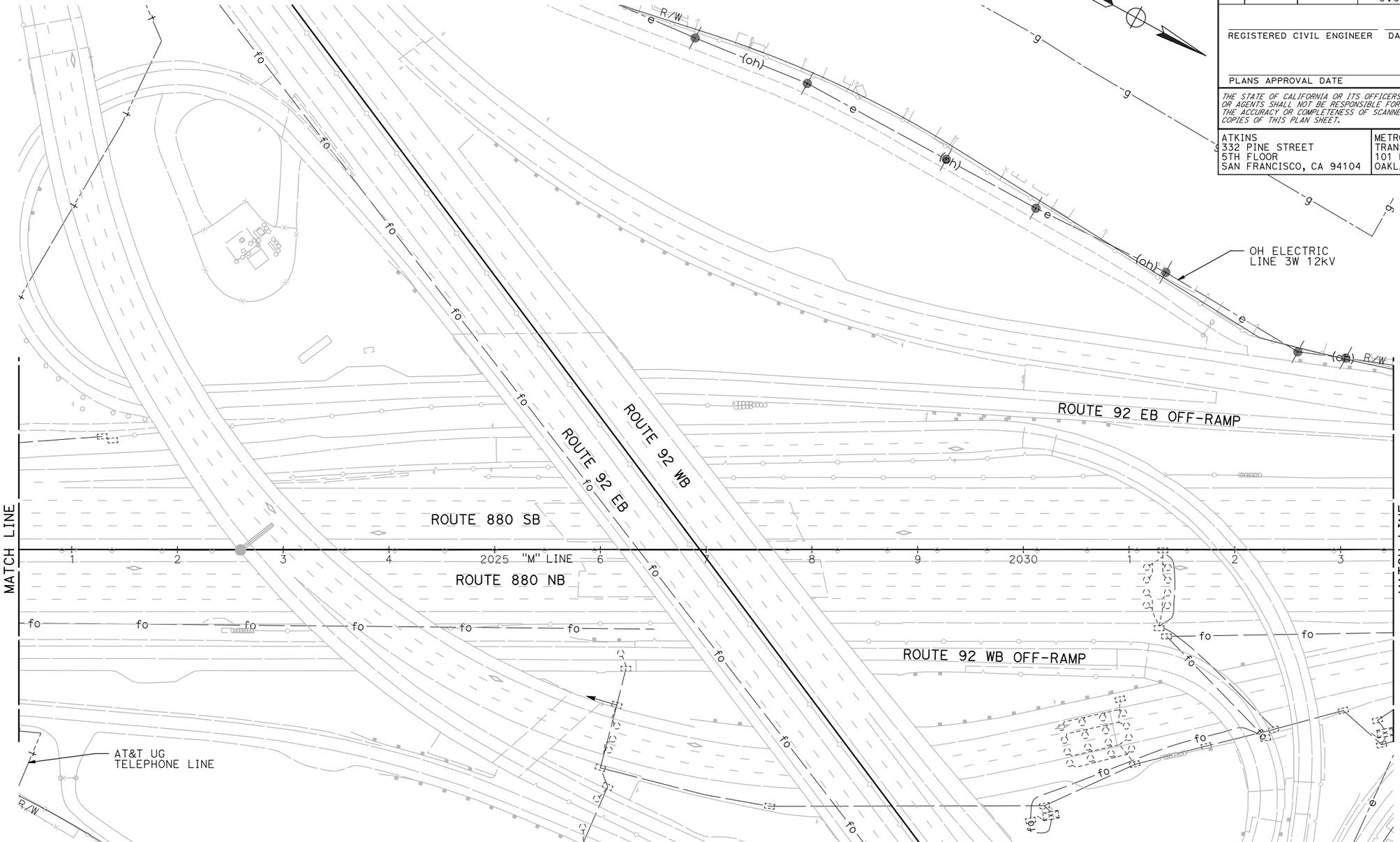
5TH FLOOR
SAN FRANCISCO, CA 94104

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-73

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 8:46:27 PM

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ka074.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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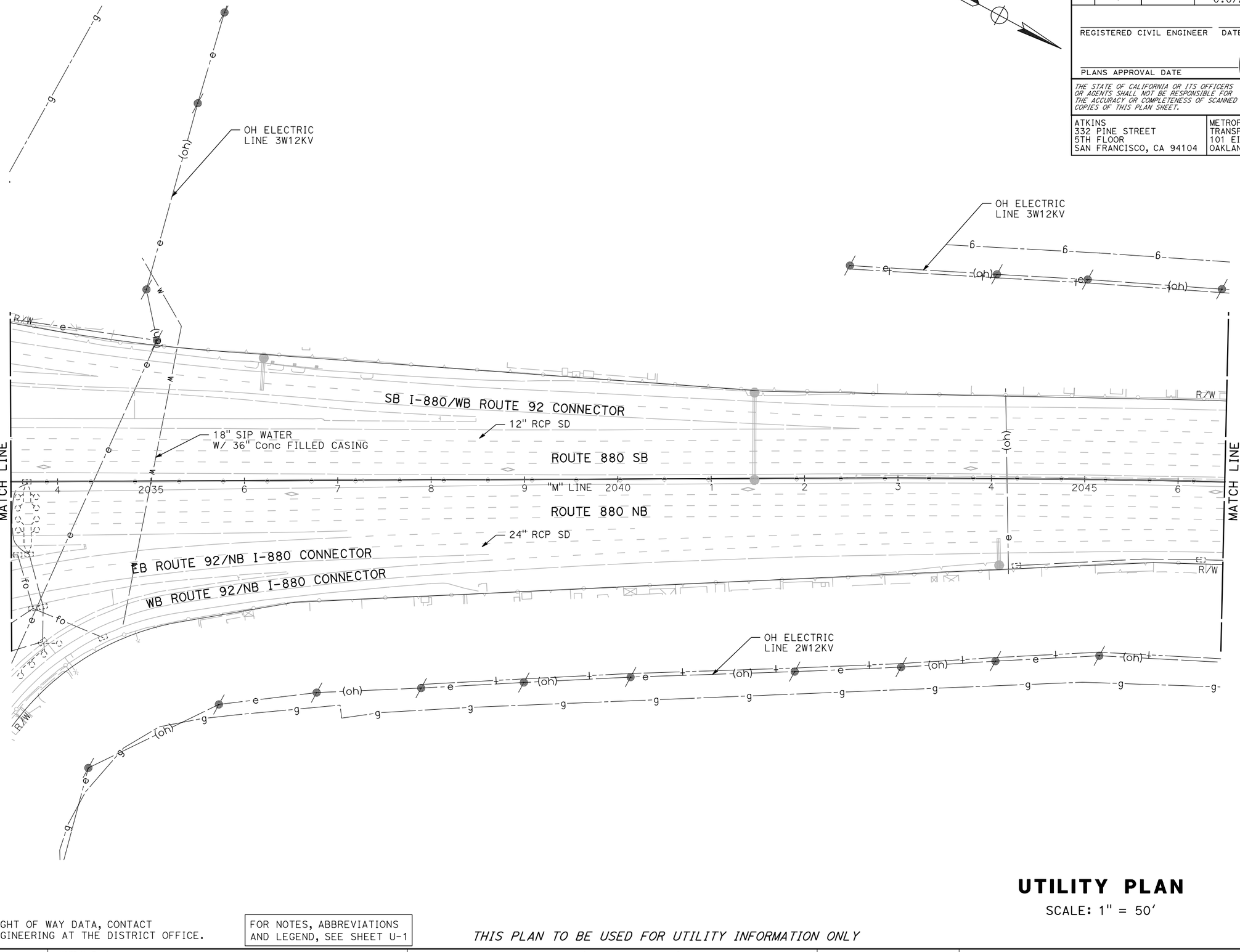
5TH FLOOR
SAN FRANCISCO, CA 94104

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-74

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI
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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ka075.dgn

LAST REVISION 00-00-00 DATE PLOTTED => 5/24/2015 TIME PLOTTED => 8:48:05 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ka075.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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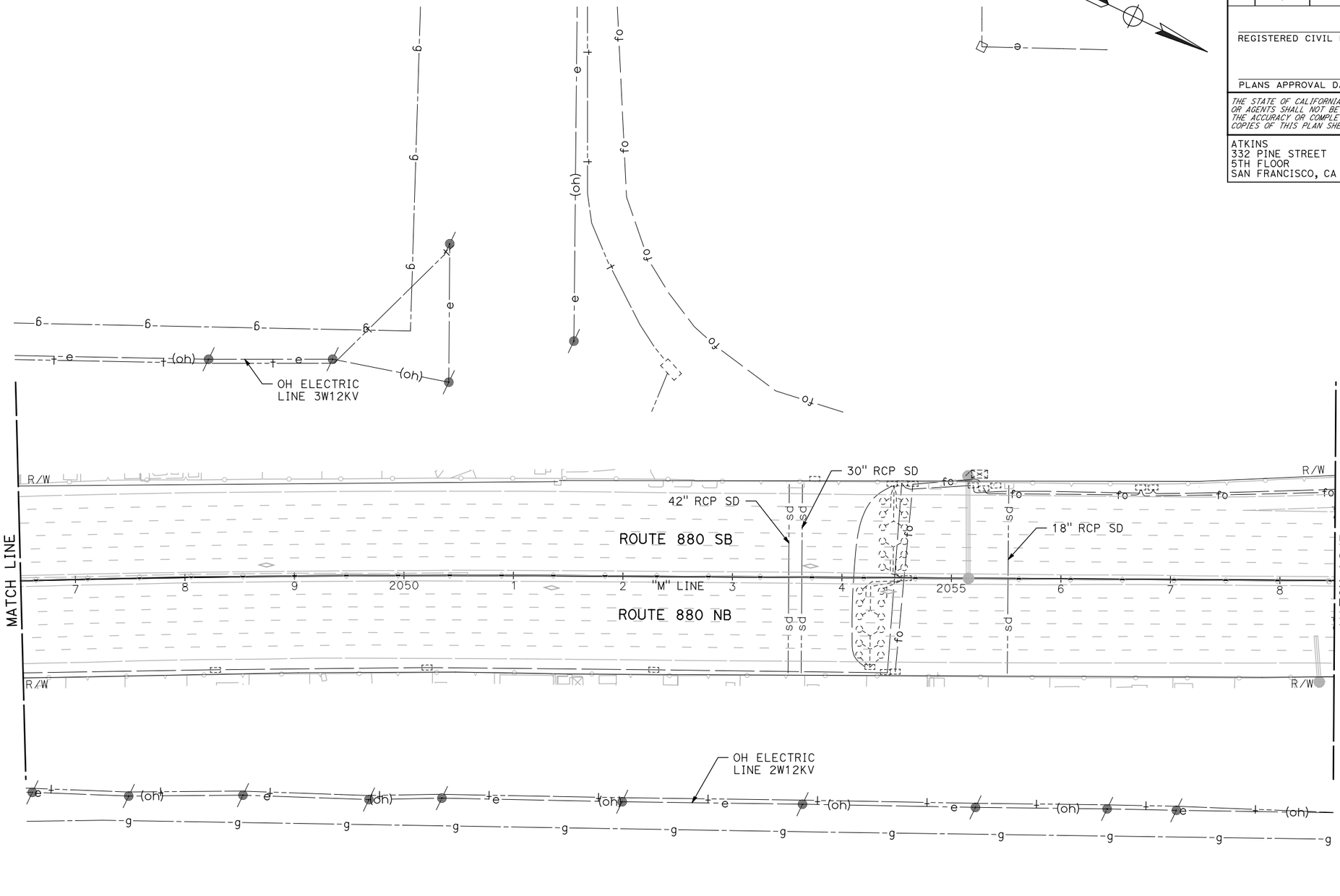
5TH FLOOR
SAN FRANCISCO, CA 94104

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-75

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI
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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 => 5/24/2015
TIME PLOTTED => 8:49:38 PM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka076.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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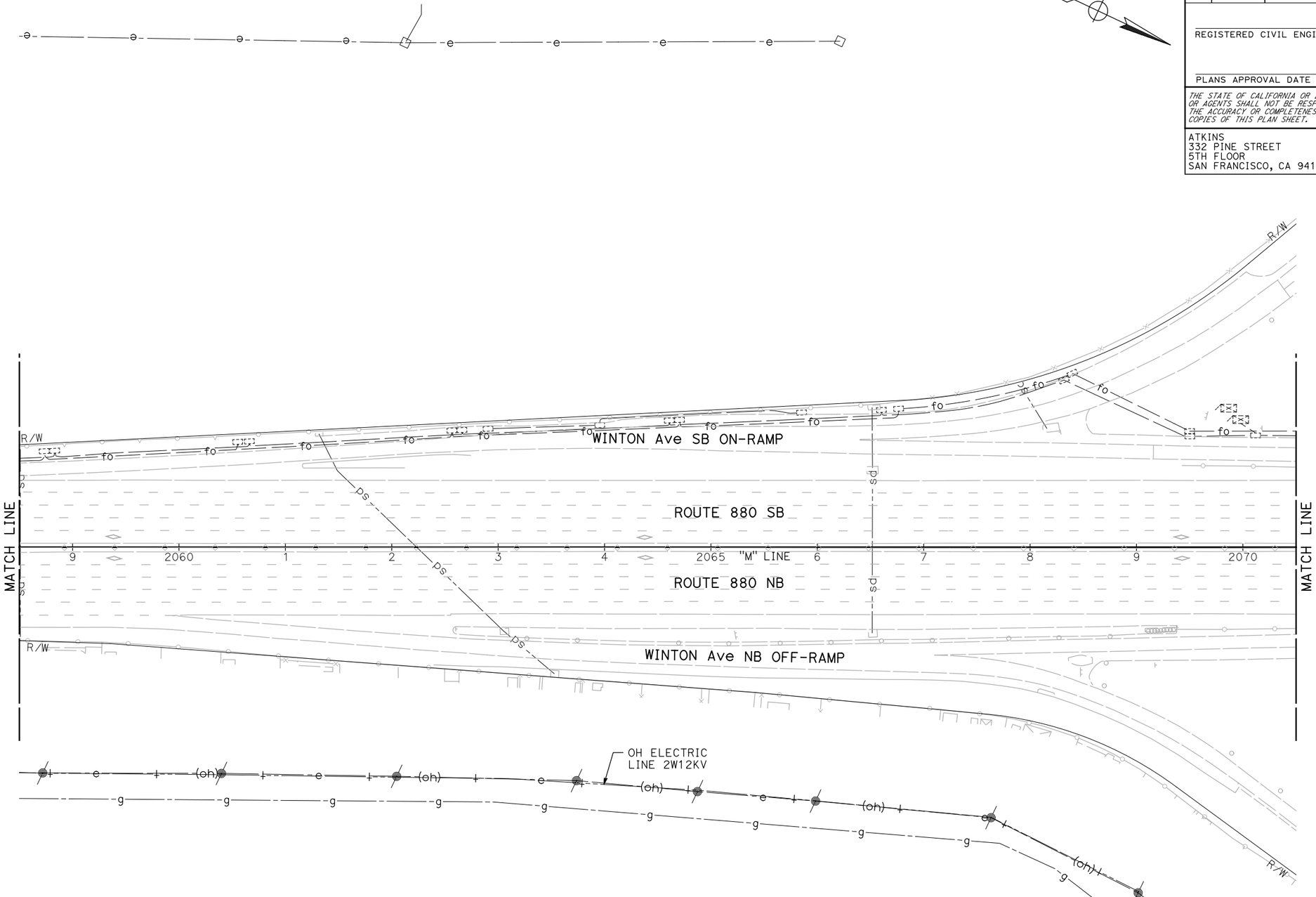
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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-76

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CALCULATED-DESIGNED BY: ARON ZEREZGHI

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 8:51:17 PM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka077.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
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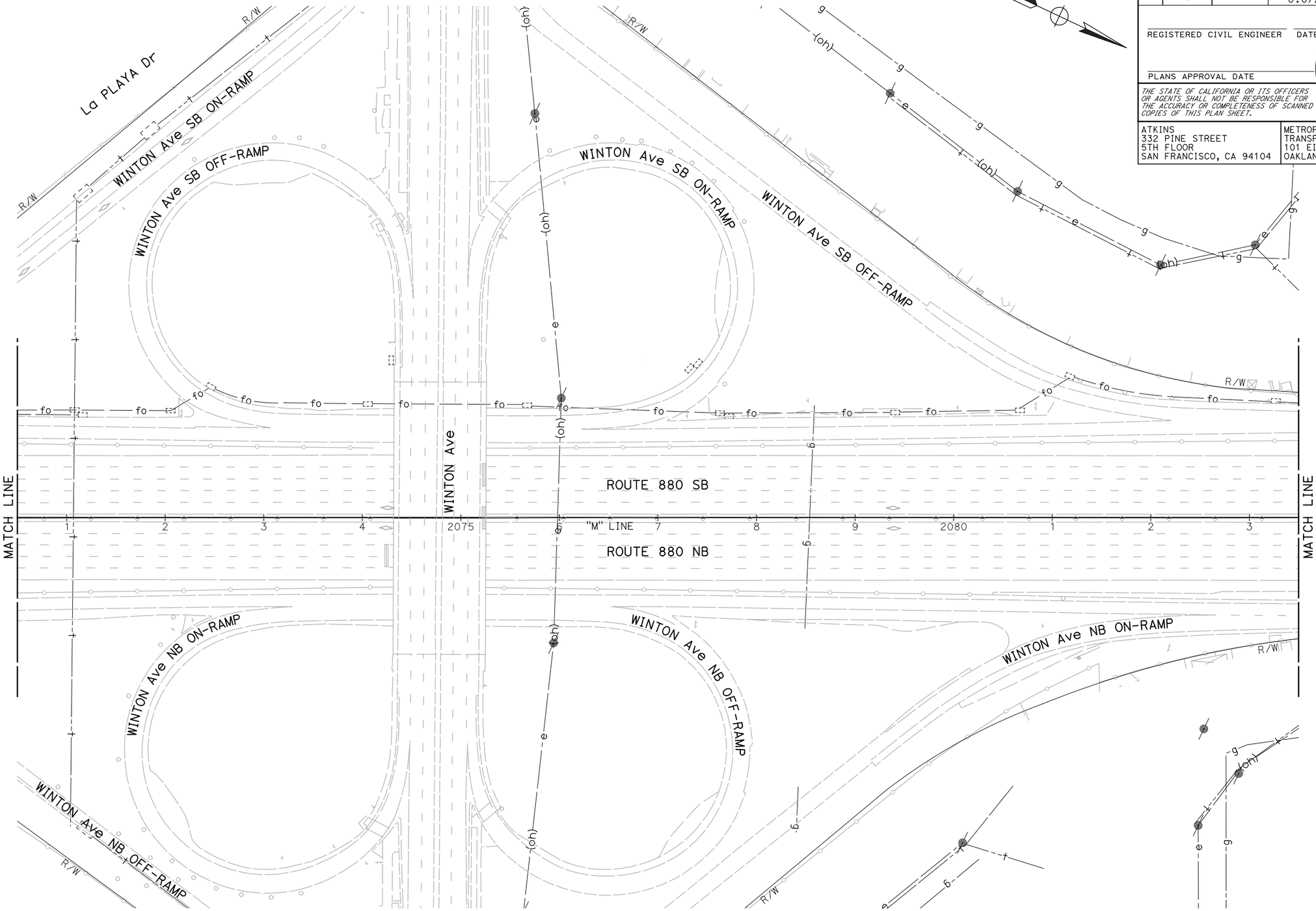
101 EIGHTH STREET
OAKLAND, CA 94607



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-77

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CALCULATED-DESIGNED BY: ARON ZEREZGHI
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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION DATE PLOTTED => 5/24/2015
00-00-00 TIME PLOTTED => 8:52:59 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka078.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
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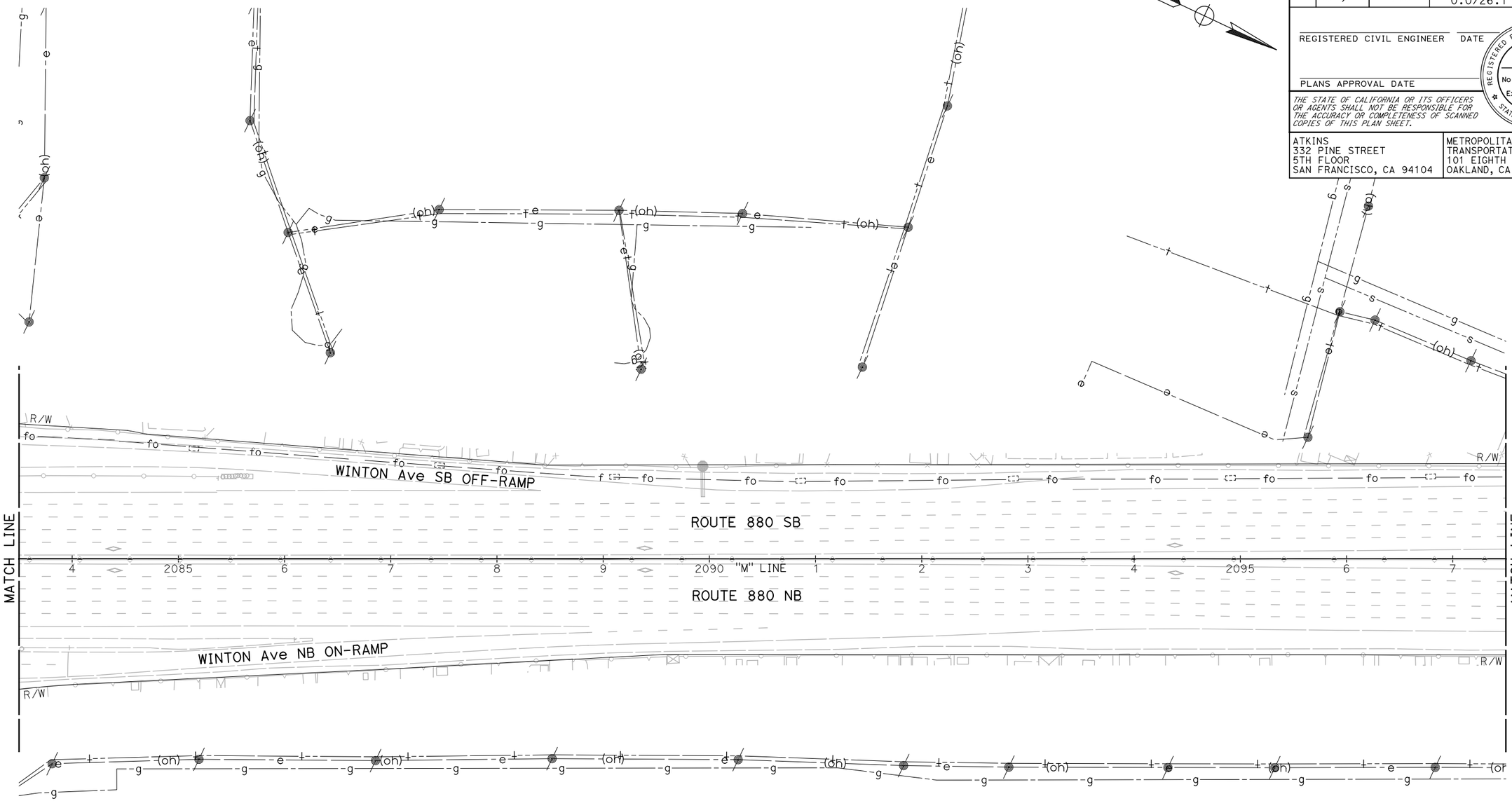
101 EIGHTH STREET
OAKLAND, CA 94607



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-78

REVISED BY | DATE REVISED

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 8:54:41 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka079.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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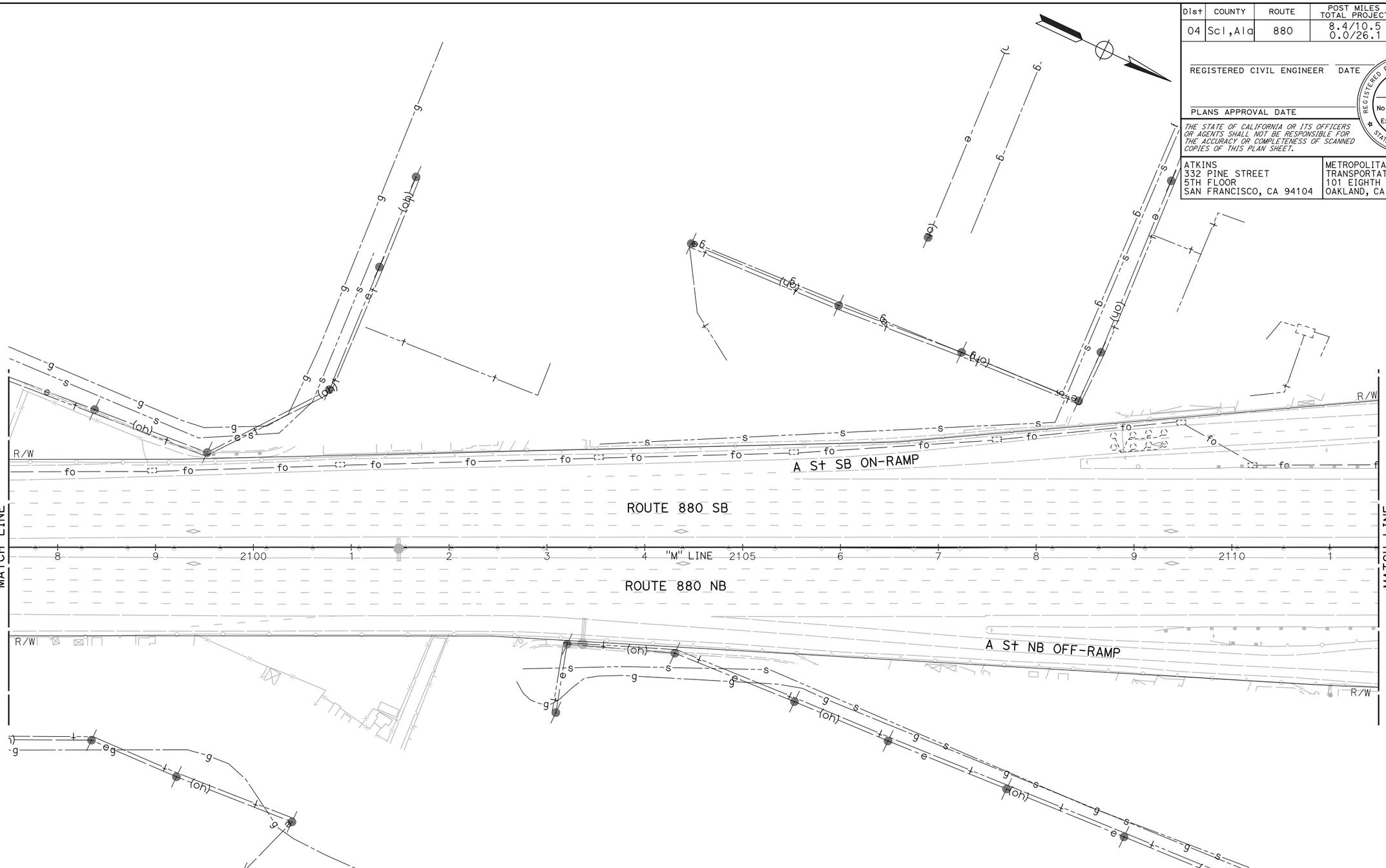
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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-79

REVISED BY	DATE REVISED

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 8:56:23 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka080.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
CIVIL
STATE OF CALIFORNIA

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332 PINE STREET
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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-80

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
ARON ZEREZGHI	NATHAN COPE

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	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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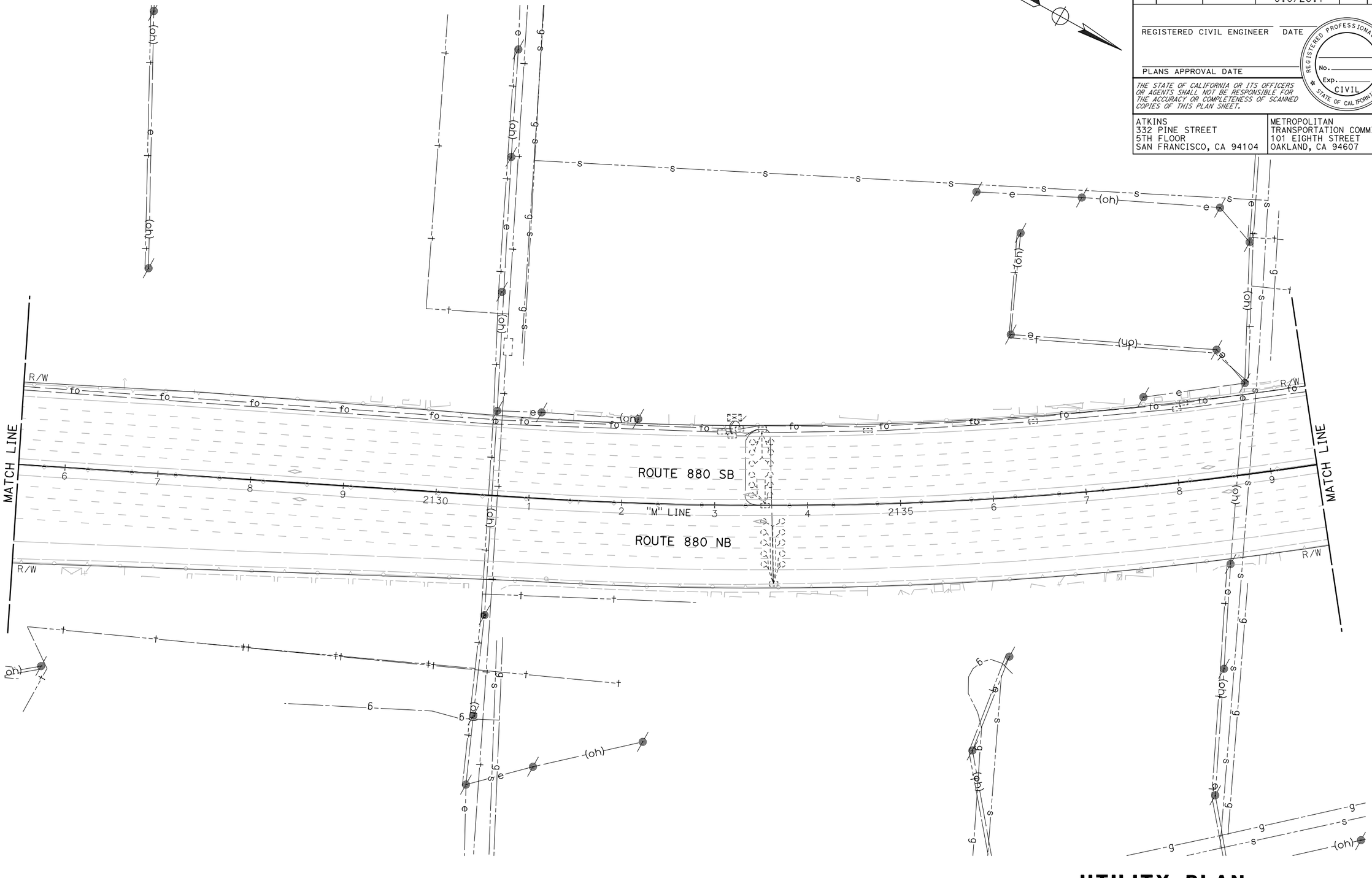
5TH FLOOR
SAN FRANCISCO, CA 94104

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-81

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ka082.dgn

LAST REVISION DATE PLOTTED => 5/24/2015
00-00-00 TIME PLOTTED => 9:01:25 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka082.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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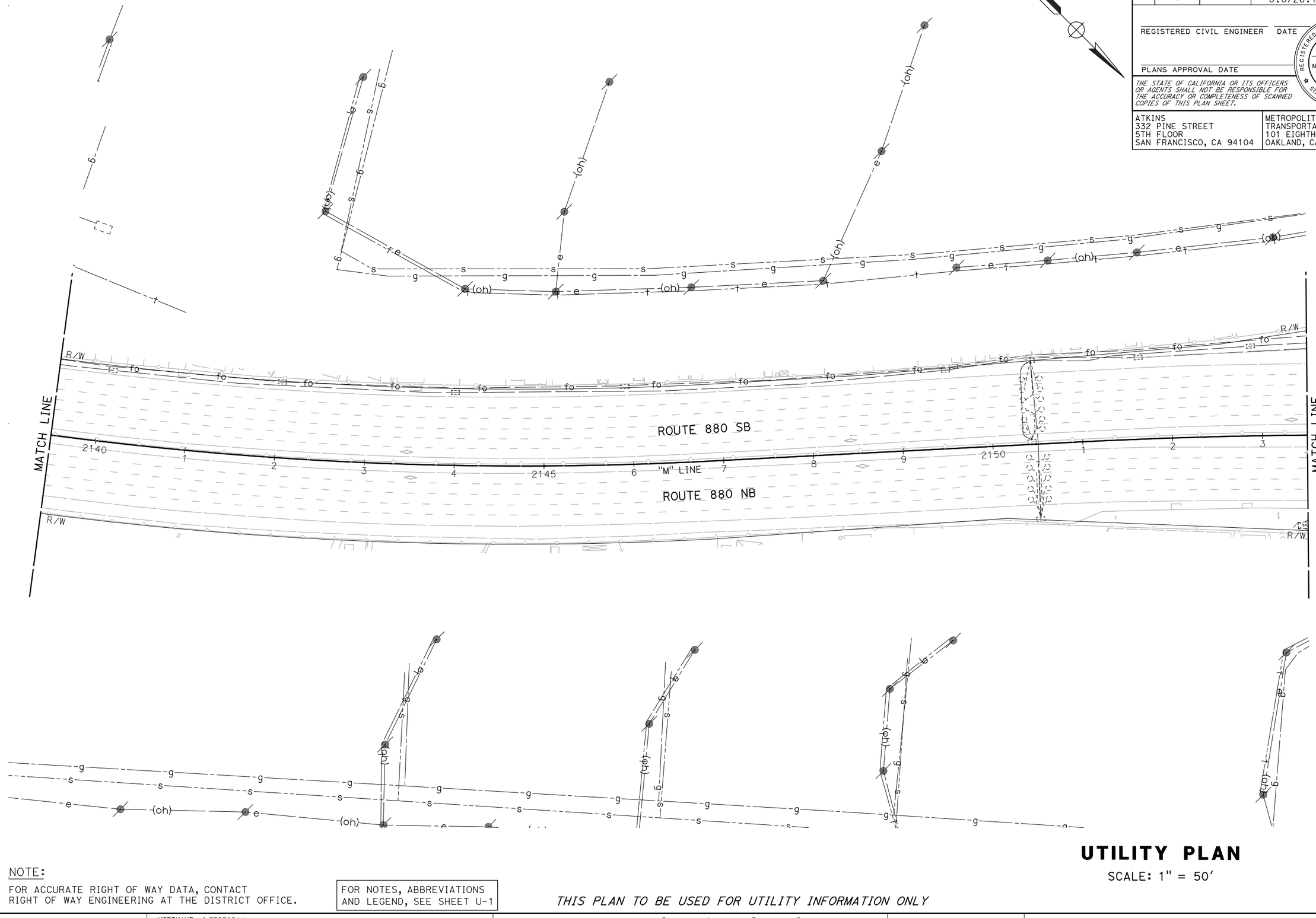
101 EIGHTH STREET
OAKLAND, CA 94607



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-82

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI

CHECKED BY: NATHAN COPE

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 9:03:00 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka083.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. 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.

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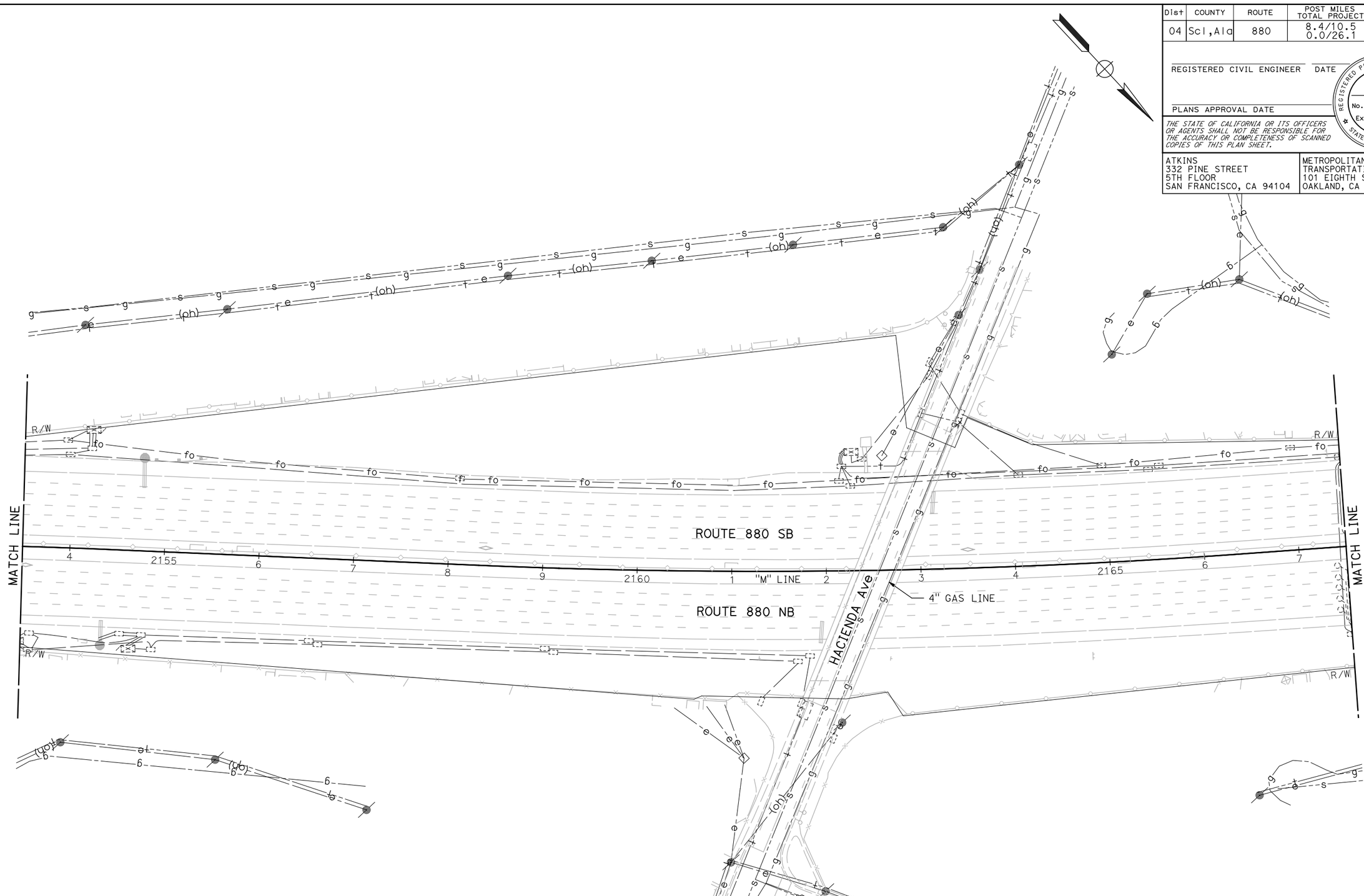
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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-83

REVISED BY | DATE REVISED

ARON ZEREZGHI | NATHAN COPE

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION: 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 9:04:30 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka084.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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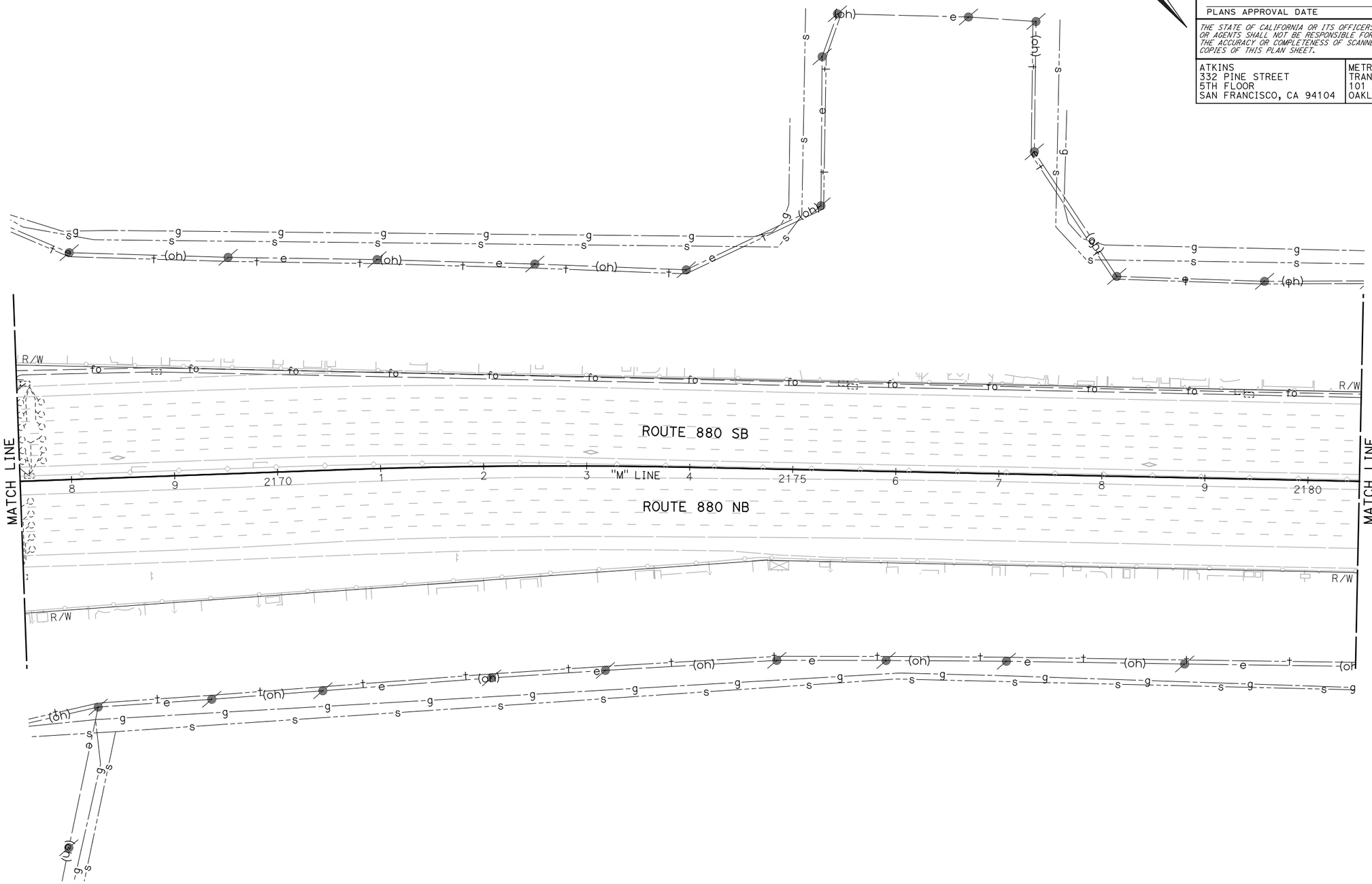
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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-84

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI
CHECKED BY: NATHAN COPE
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ka085.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 9:06:09 PM

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ka085.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

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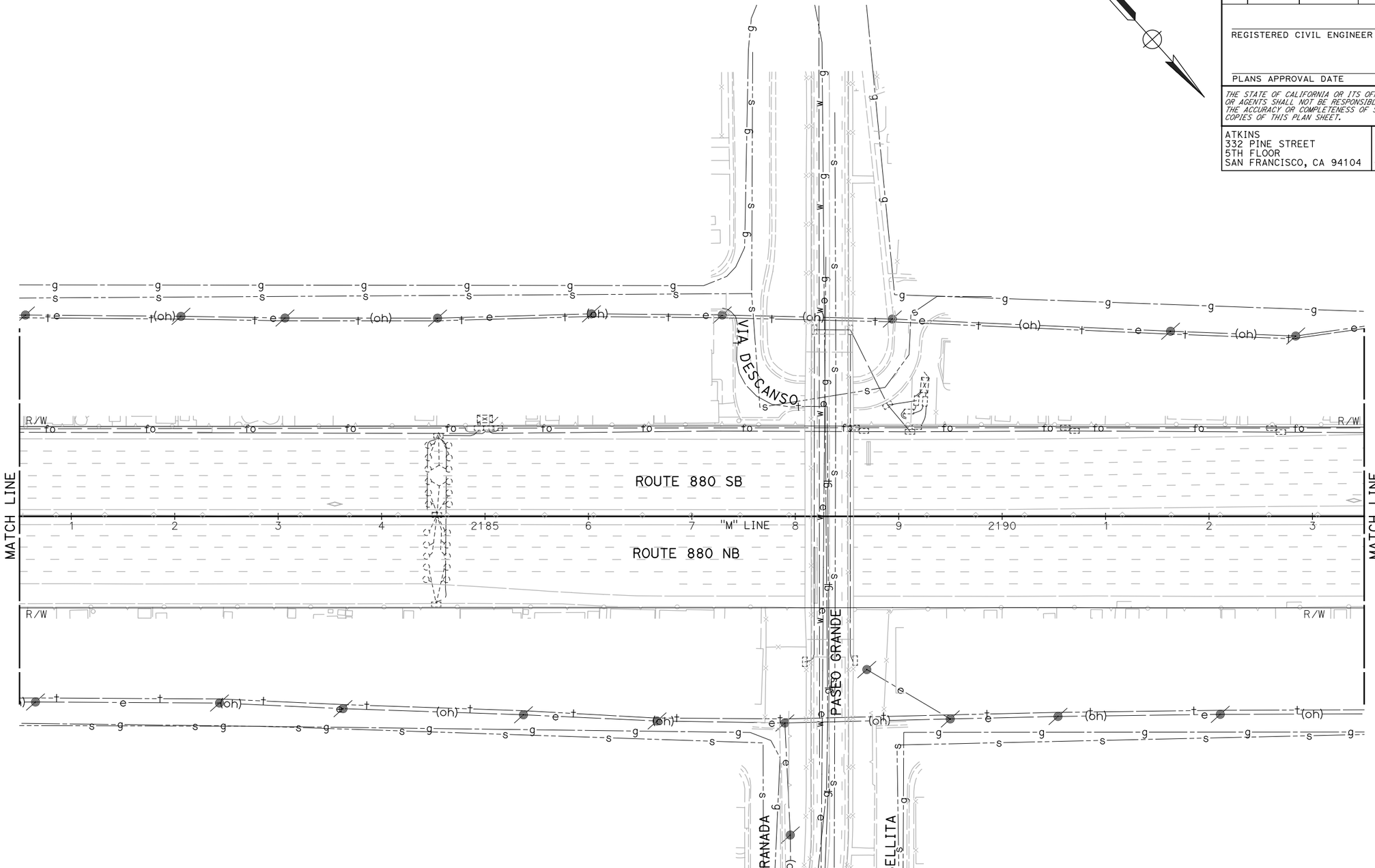
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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'

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 9:07:37 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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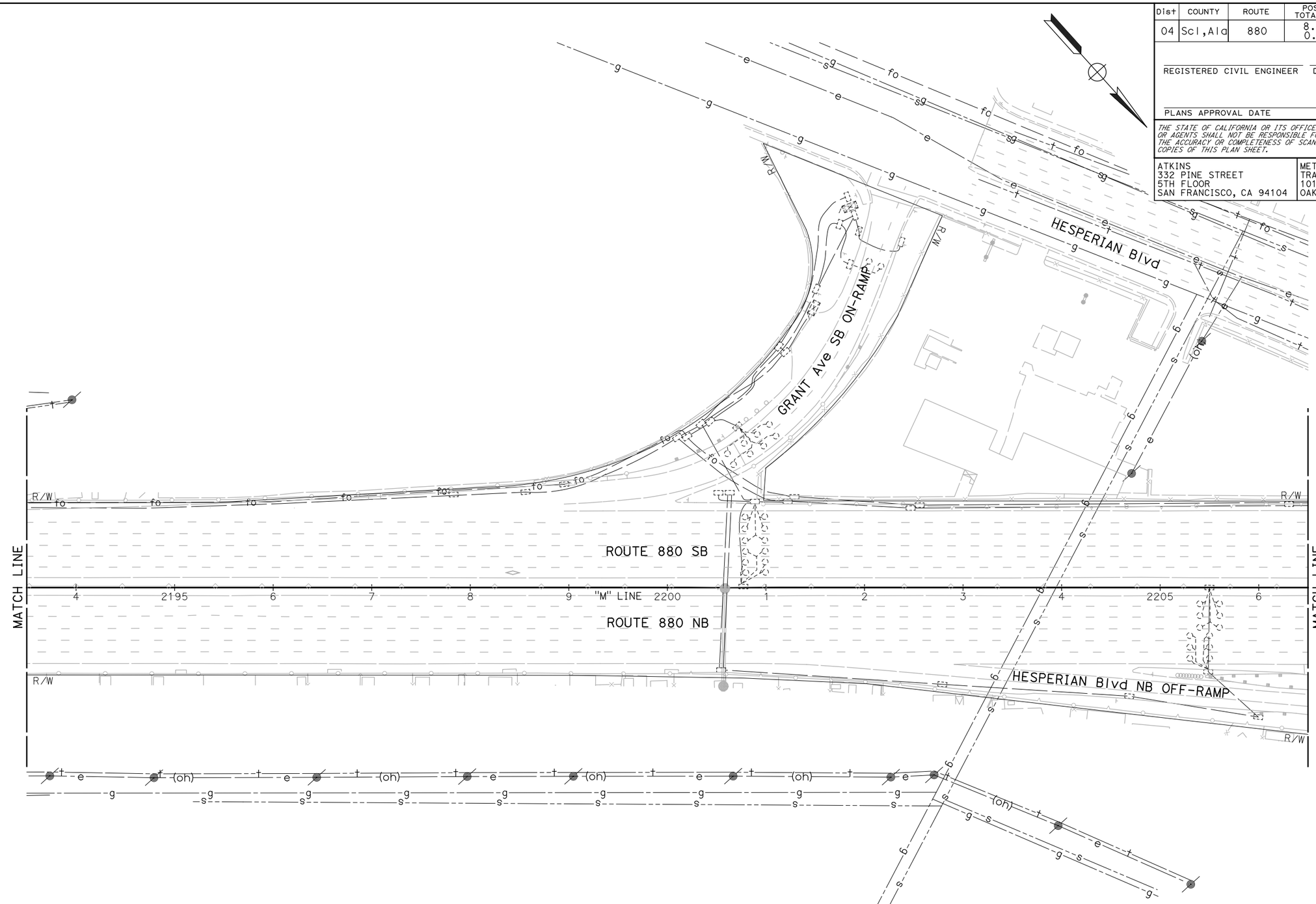
OAKLAND, CA 94607



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-86

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 9:09:07 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka087.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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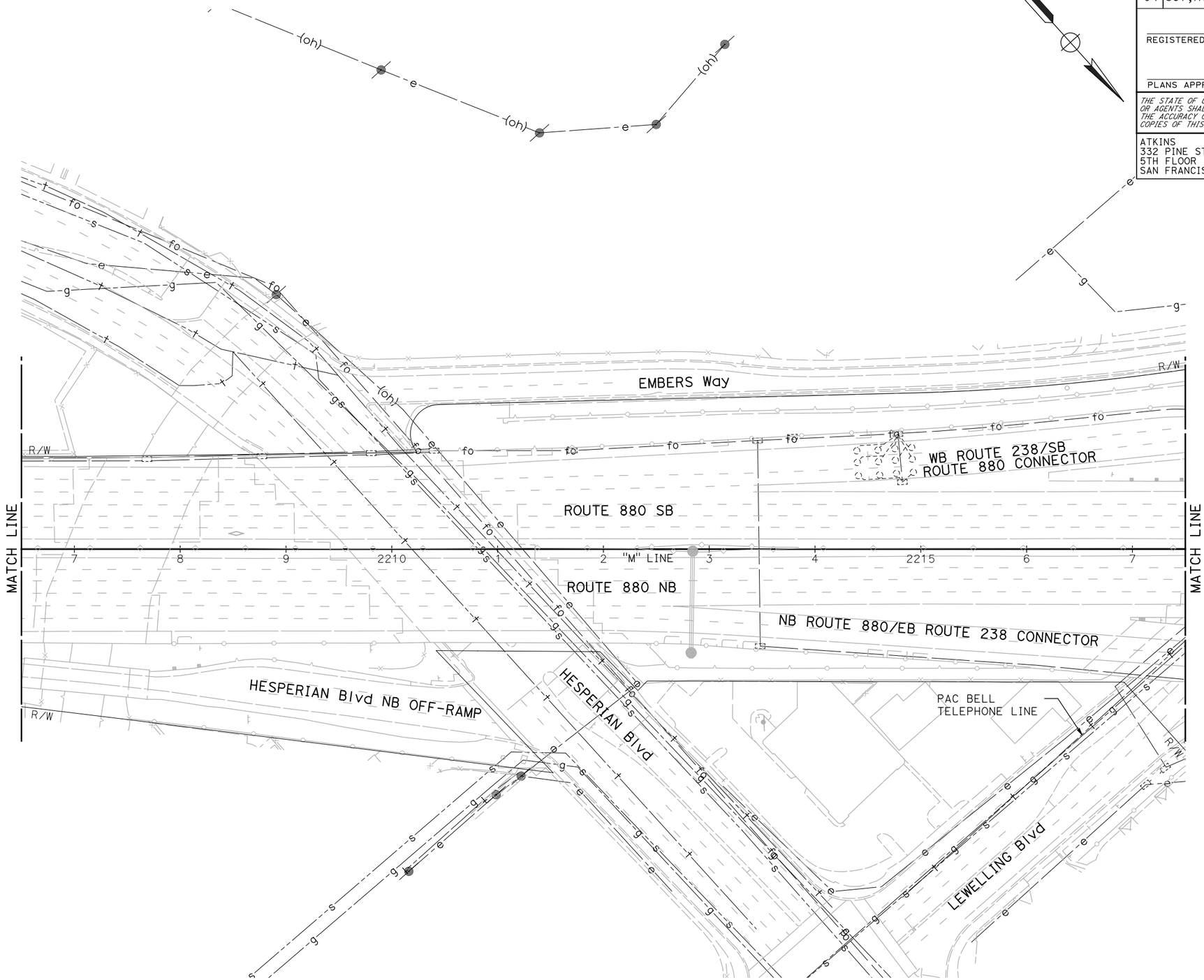
101 EIGHTH STREET
OAKLAND, CA 94607



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-87

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI
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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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Caltrans

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 9:10:56 PM

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ka088.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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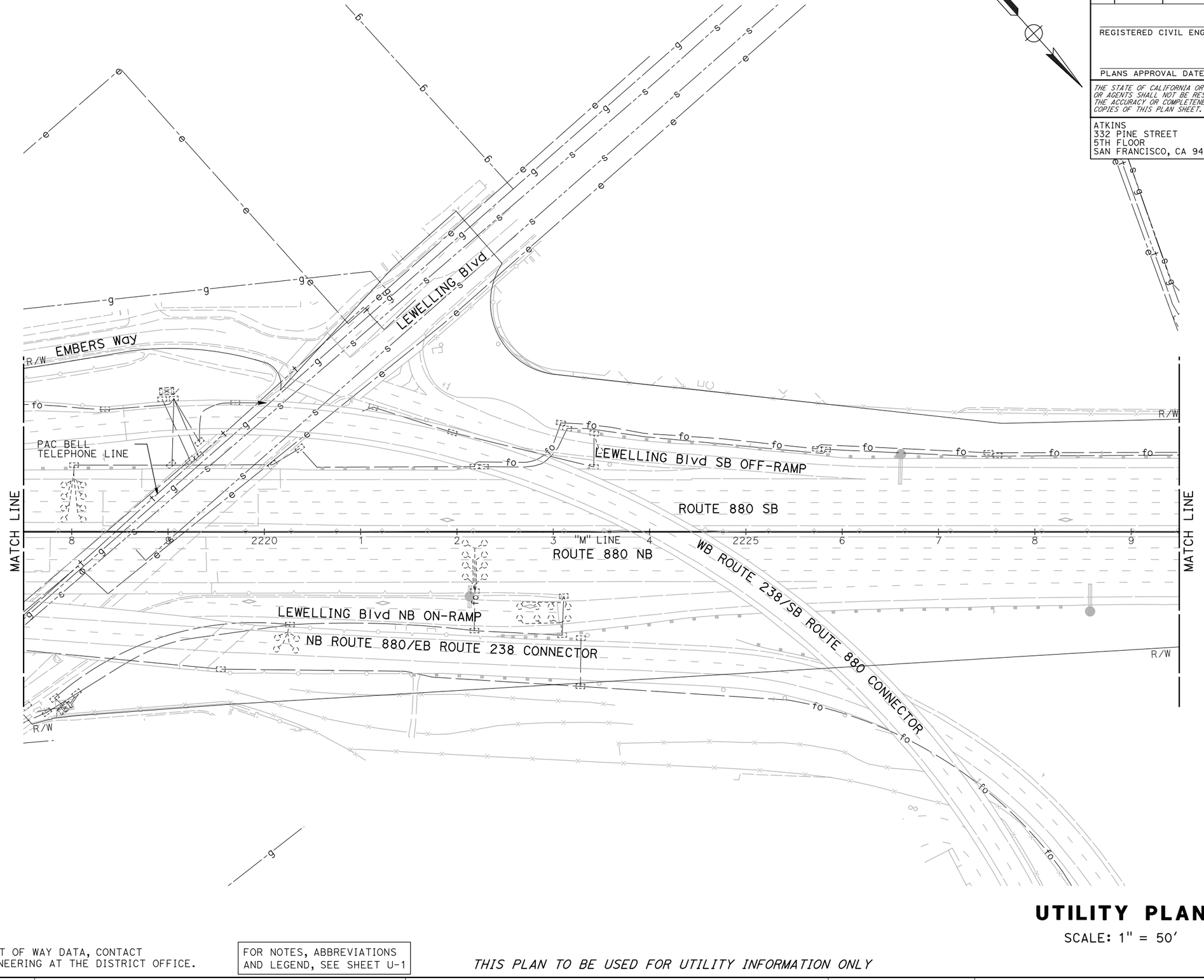
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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-88

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI
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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 => 5/24/2015
TIME PLOTTED => 9:12:35 PM

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ka089.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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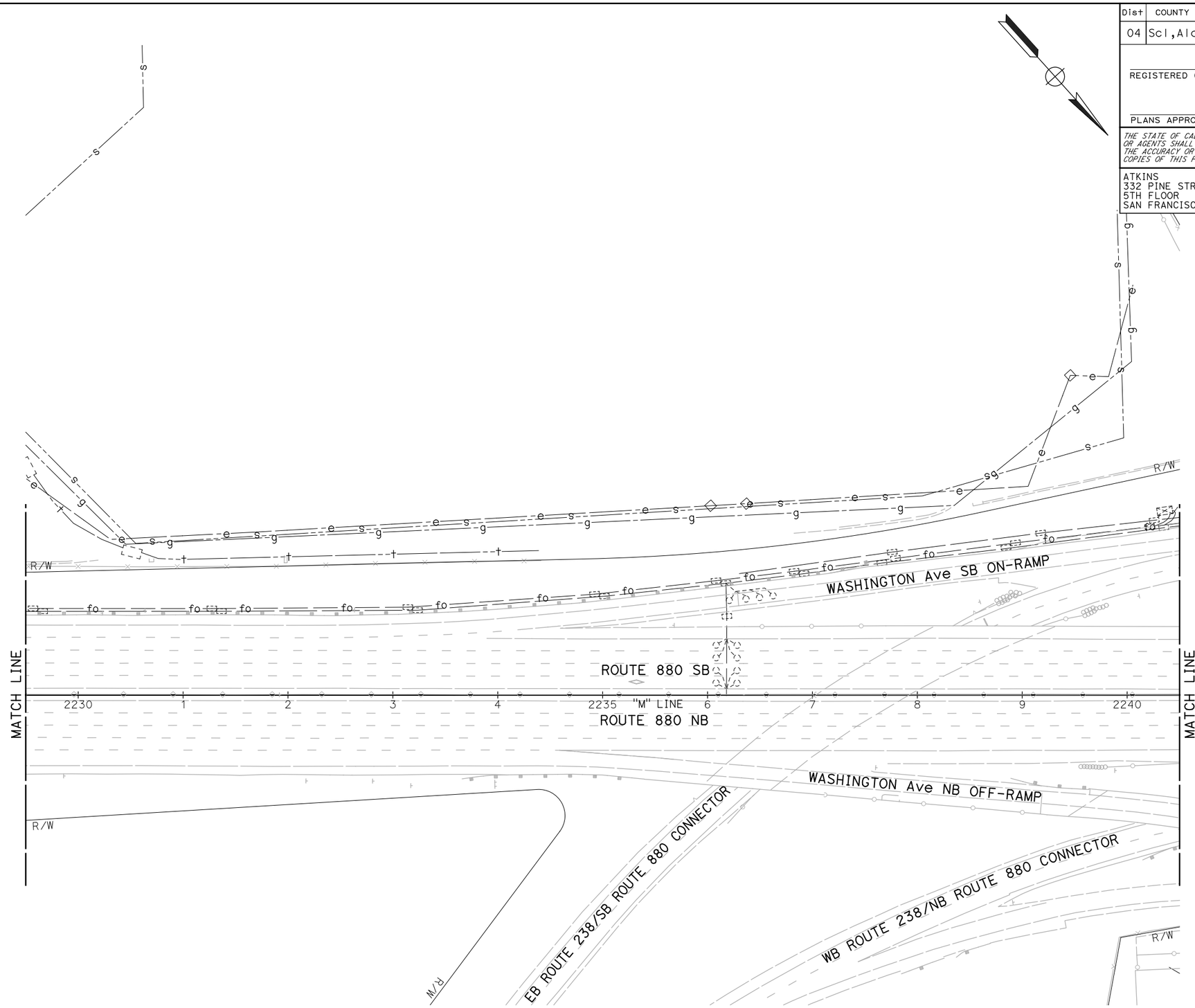
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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-89

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

CALCULATED-DESIGNED BY: ARON ZEREZGHI

CHECKED BY: NATHAN COPE

REVISED BY | DATE REVISED

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LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 9:14:16 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka090.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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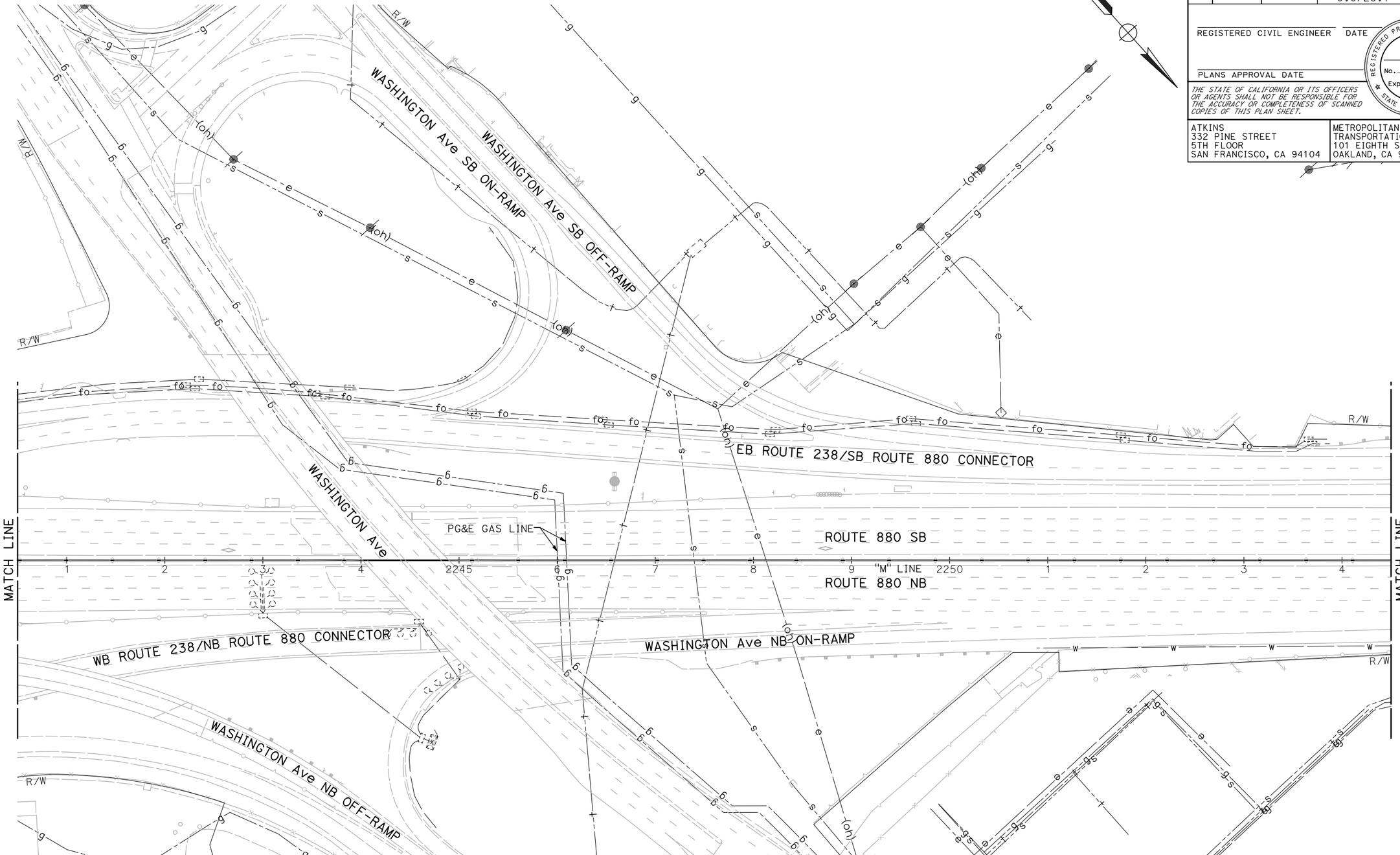
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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-90

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI
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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 => 5/24/2015
TIME PLOTTED => 9:15:51 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka091.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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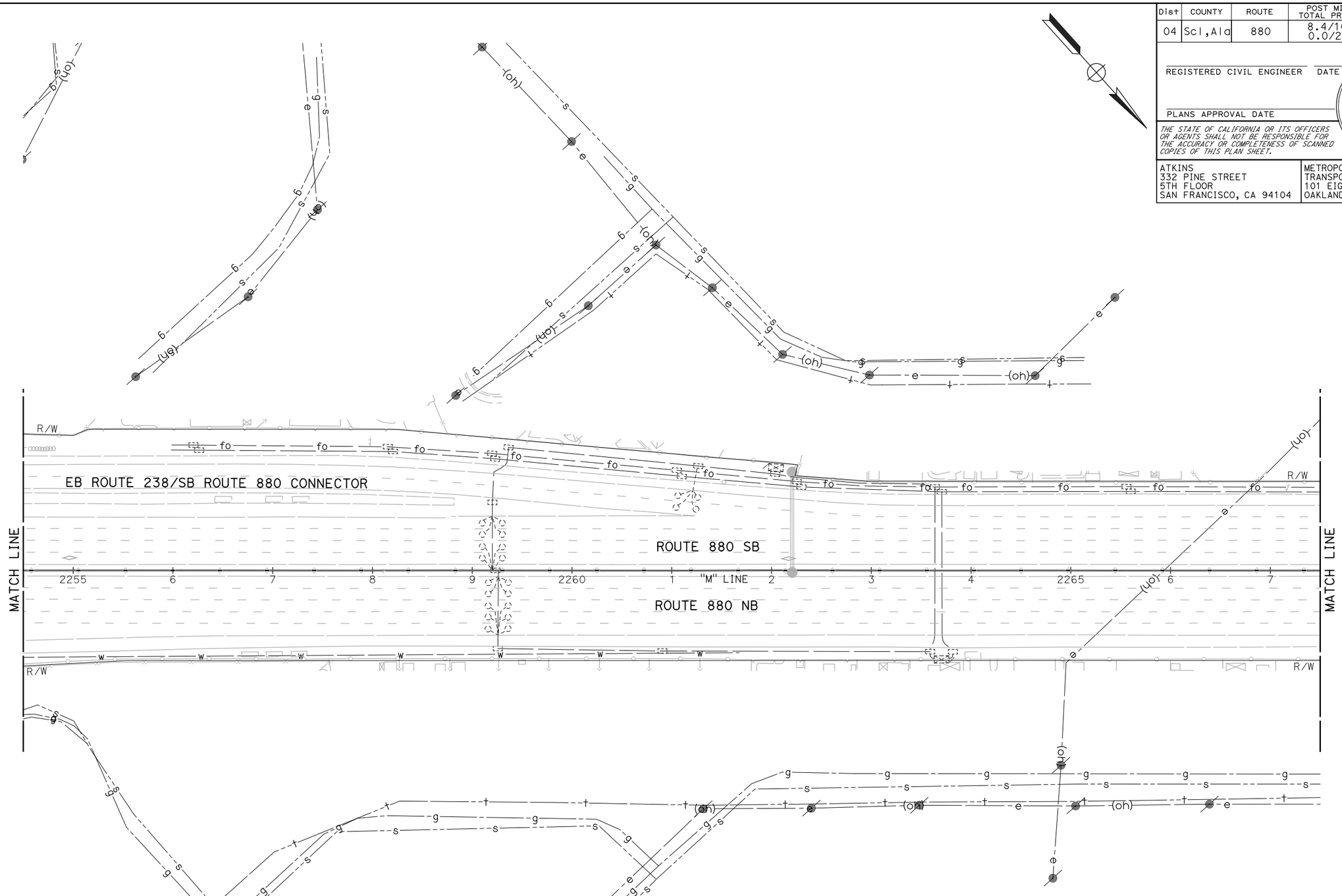
101 EIGHTH STREET
OAKLAND, CA 94607



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-91

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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DATE PLOTTED => 5/24/2015
TIME PLOTTED => 9:17:29 PM

BORDER LAST REVISED 10/4/2013

USERNAME => ZERE2344
DGN FILE => ka092.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT XXXX

PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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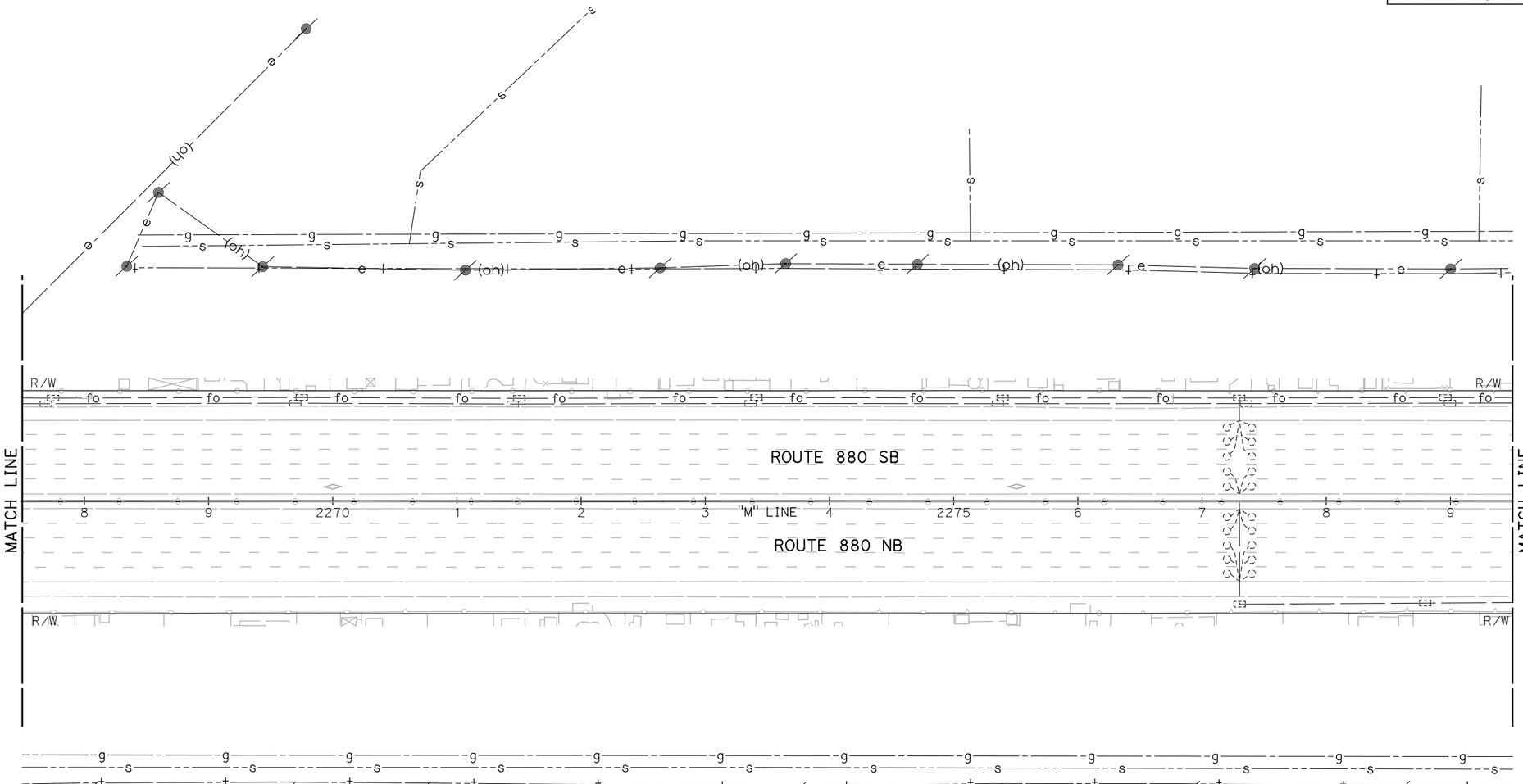
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



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-92

REVISED BY	DATE REVISED
ARON ZEREZGHI	NATHAN COPE
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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 => 5/24/2015 TIME PLOTTED => 9:19:01 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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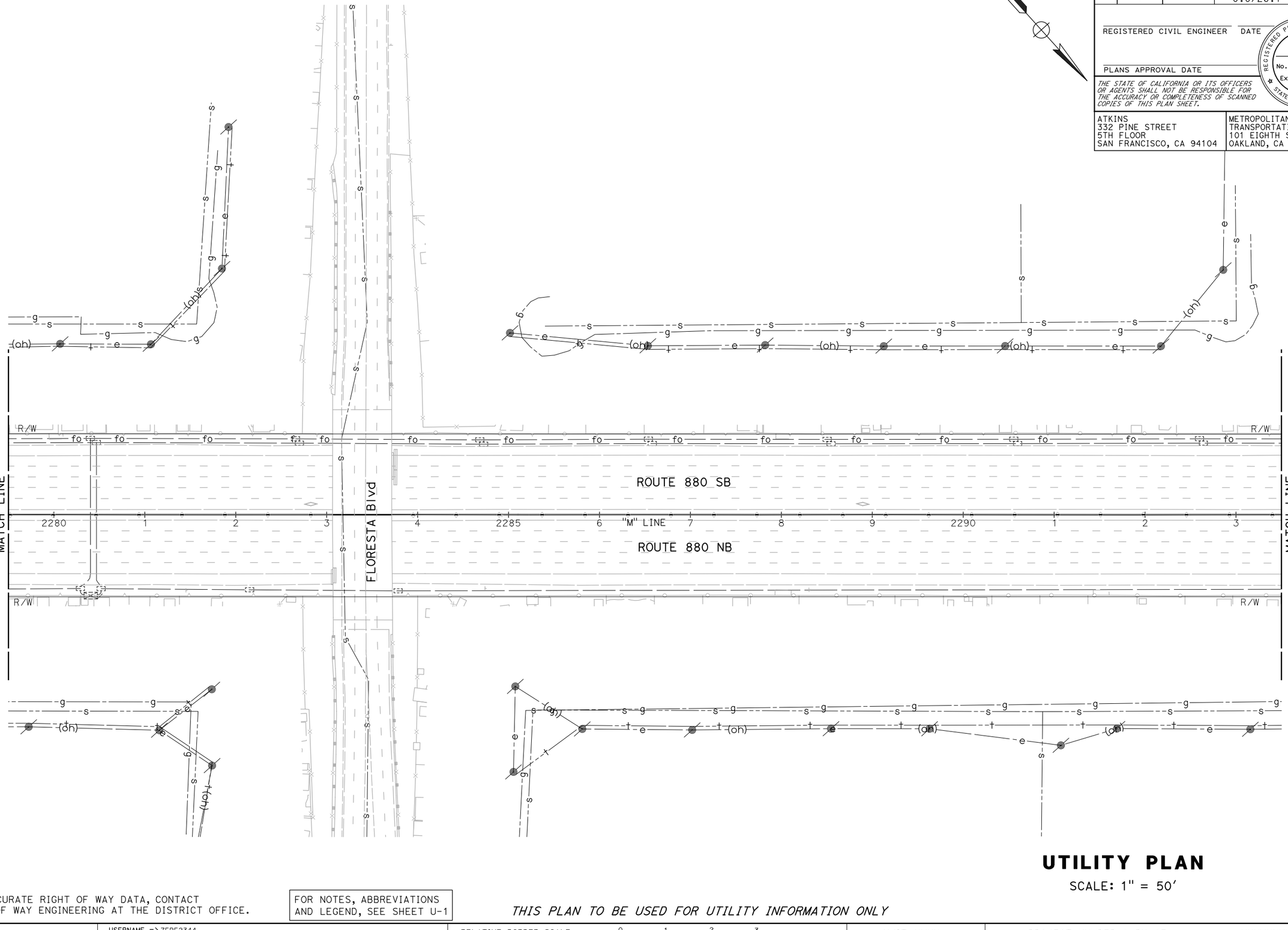
101 EIGHTH STREET
OAKLAND, CA 94607



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-93

REVISED BY | DATE REVISED

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CALCULATED-DESIGNED BY | CHECKED BY

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LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 9:20:33 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka094.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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SAN FRANCISCO, CA 94104

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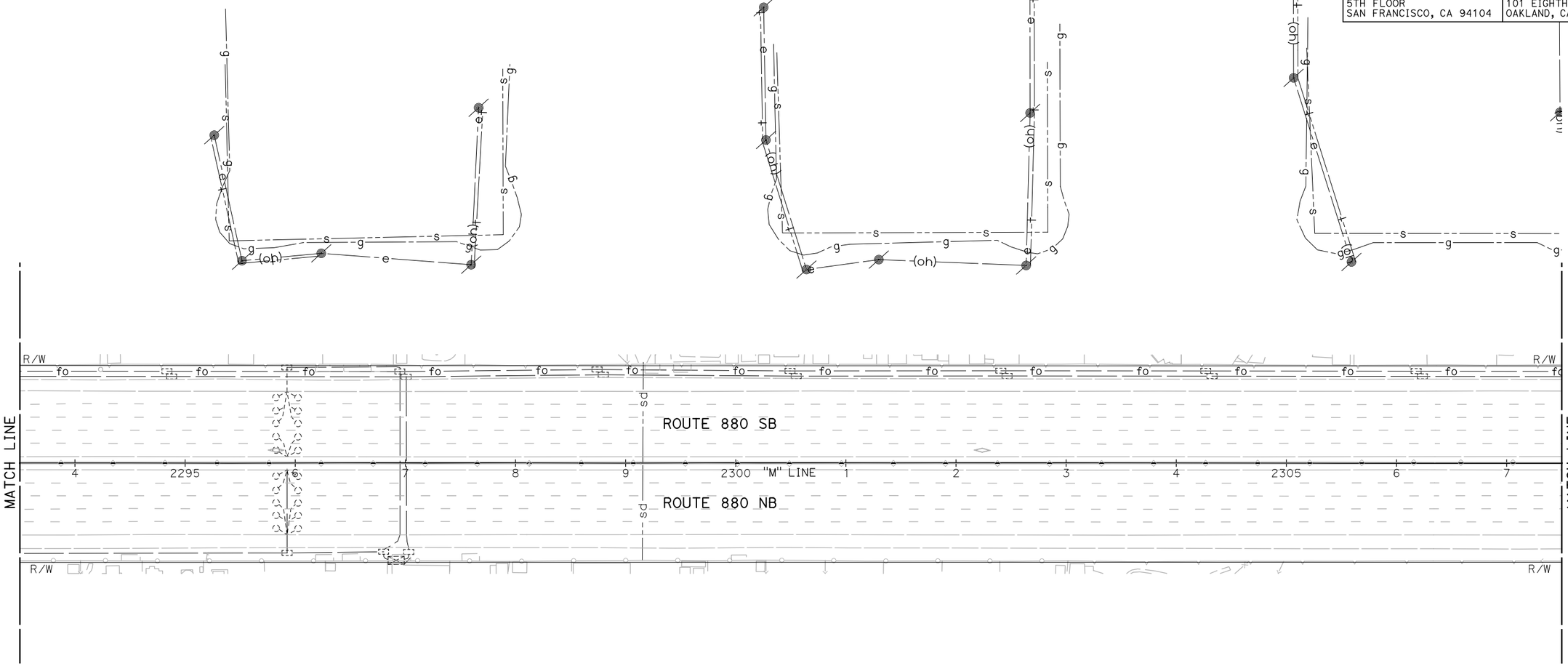
101 EIGHTH STREET
OAKLAND, CA 94607



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-94

REVISED BY	DATE REVISED

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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LAST REVISION DATE PLOTTED => 5/24/2015
00-00-00 TIME PLOTTED => 9:22:04 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ka095.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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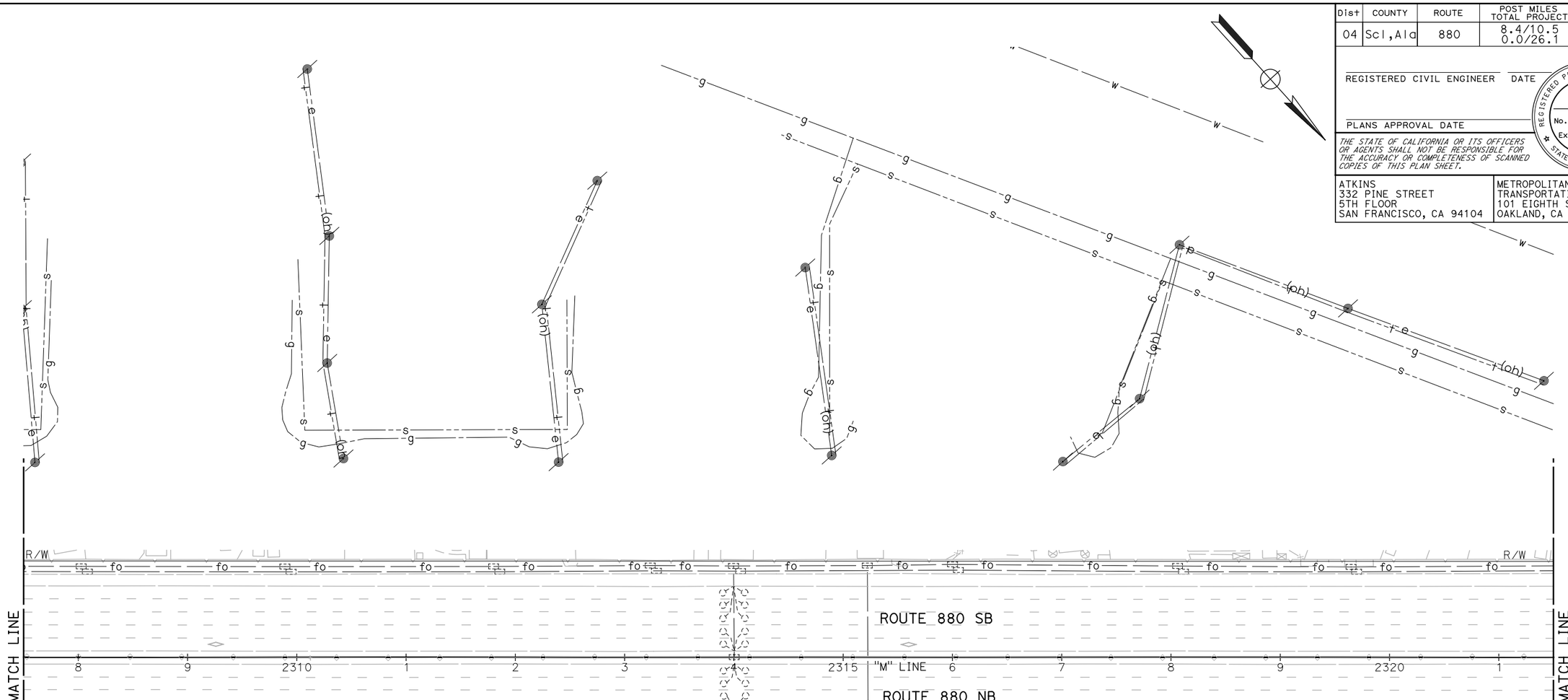
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



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-95

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY
CHECKED BY

ARON ZEREZGHI
NATHAN COPE

CONSULTANT FUNCTIONAL SUPERVISOR
KAI CHAN

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Caltrans

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LAST REVISION
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 9:23:37 PM
00-00-00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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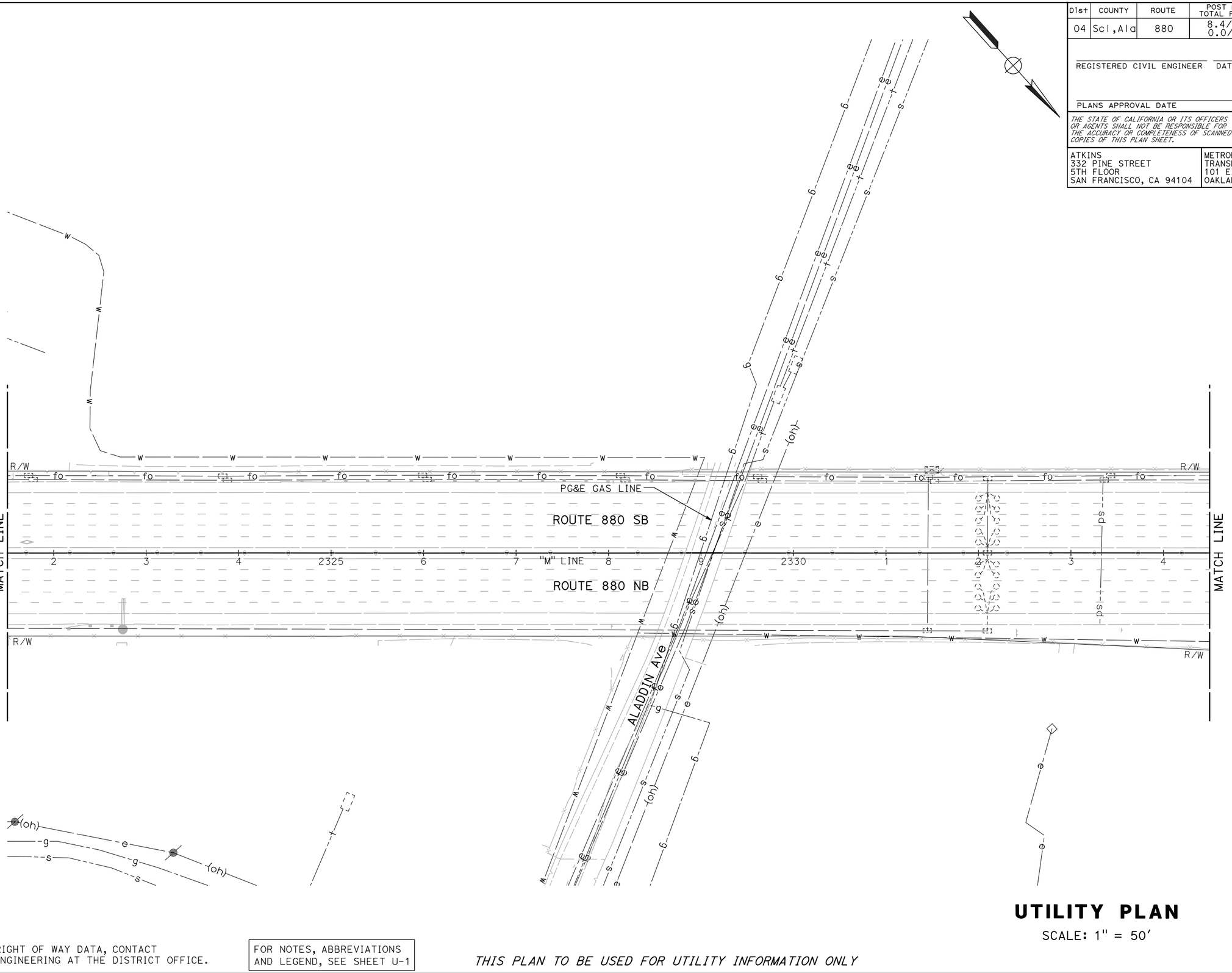
5TH FLOOR
SAN FRANCISCO, CA 94104

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-96

CALCULATED-DESIGNED BY

CHECKED BY

ARON ZEREZGHI

NATHAN COPE

REVISED BY

DATE REVISED

CONSULTANT FUNCTIONAL SUPERVISOR

KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION 00-00-00

DATE PLOTTED => 5/24/2015

TIME PLOTTED => 9:25:11 PM

BORDER LAST REVISED 10/4/2013

USERNAME => ZERE2344

DGN FILE => ka097.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT XXXX

PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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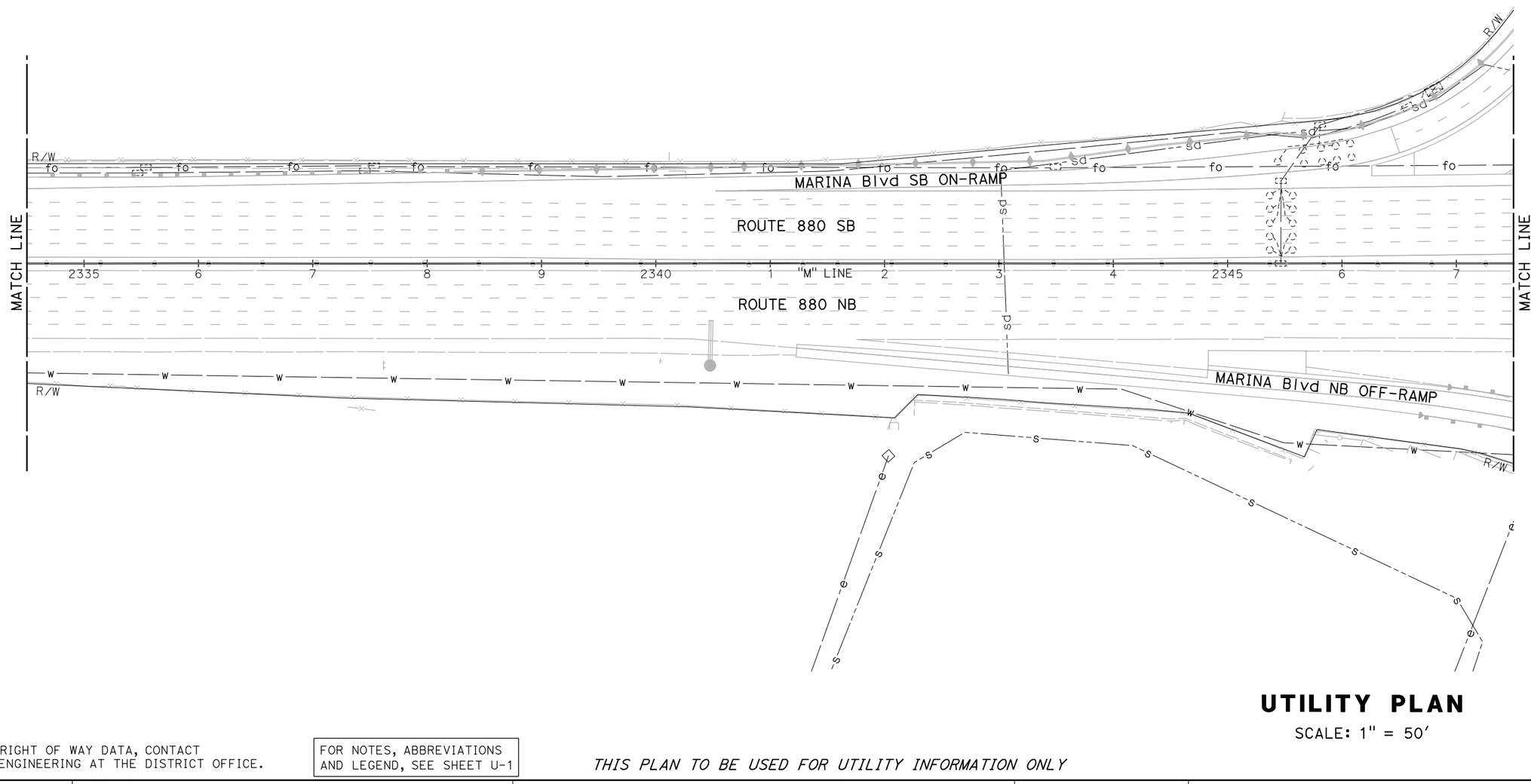
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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-97

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 9:26:50 PM

c:\pw_work\atknaca01\zere2344\dms01003\ka098.dgn

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka098.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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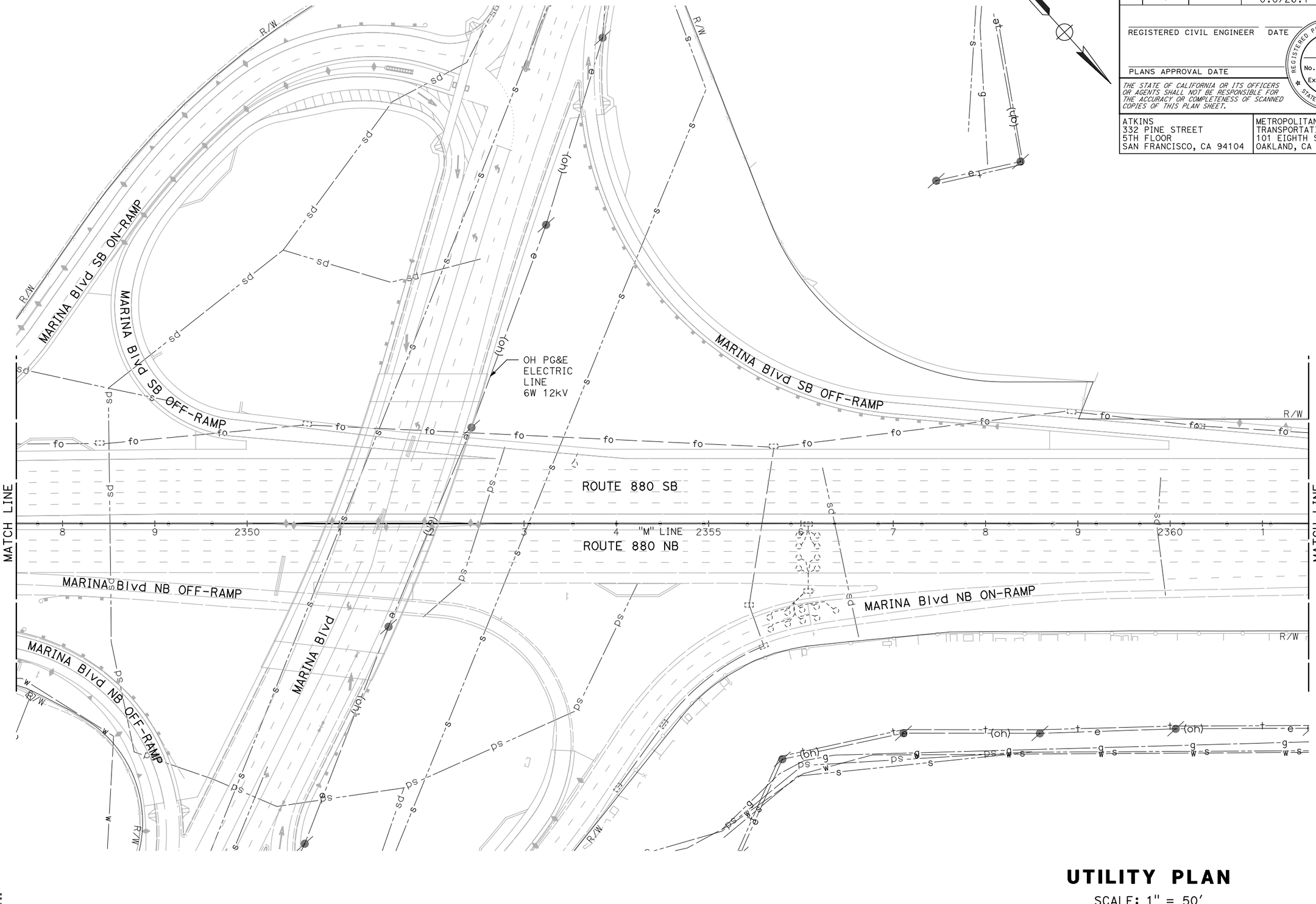
5TH FLOOR
SAN FRANCISCO, CA 94104

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-98

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ARON ZEREZGHI | NATHAN COPE

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 91:28:26 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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METROPOLITAN
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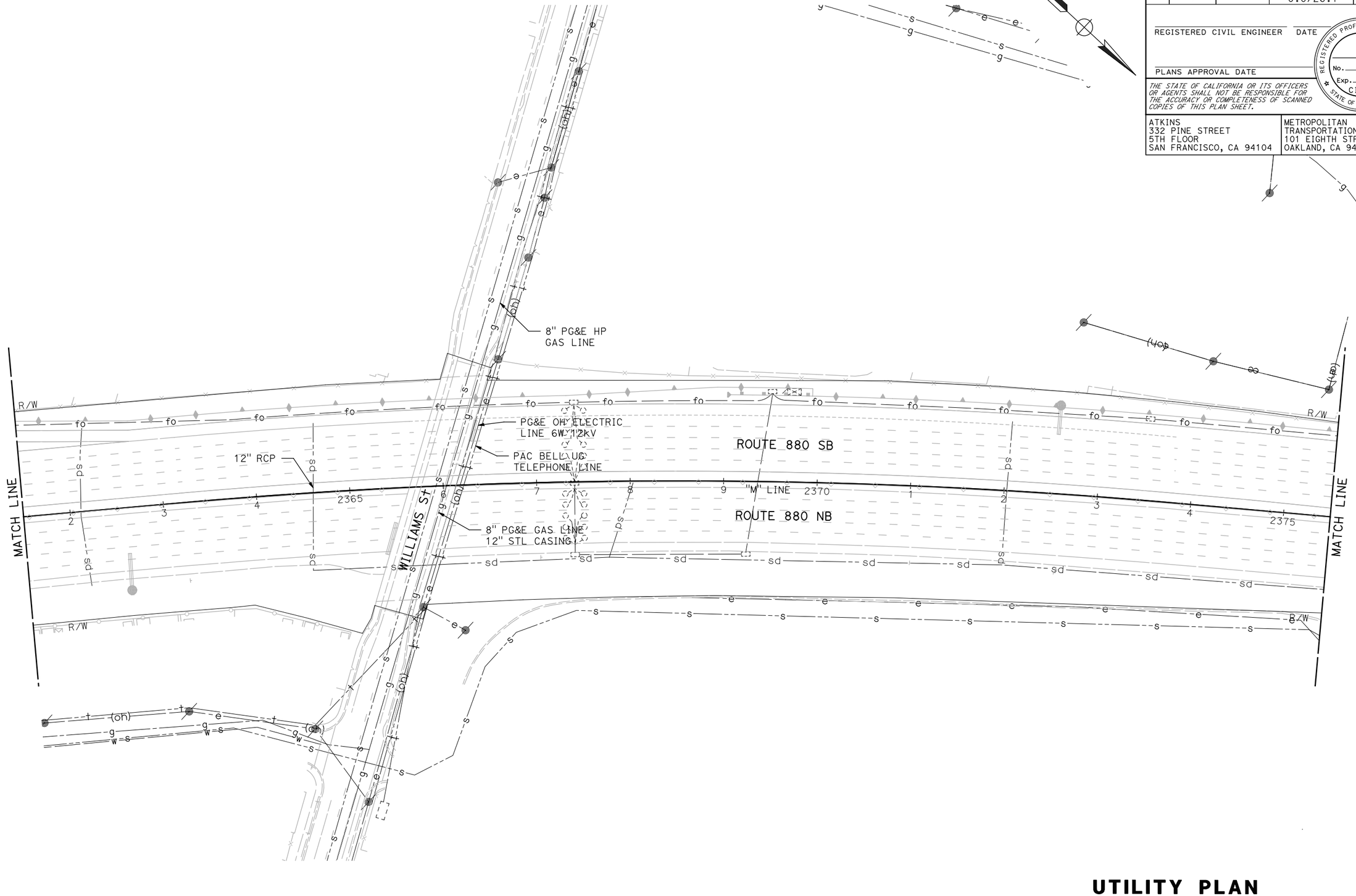
101 EIGHTH STREET
OAKLAND, CA 94607



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

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UTILITY PLAN

SCALE: 1" = 50'

U-99

CALCULATED-DESIGNED BY	REVISED BY	DATE REVISED
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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 9:30:31 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka100.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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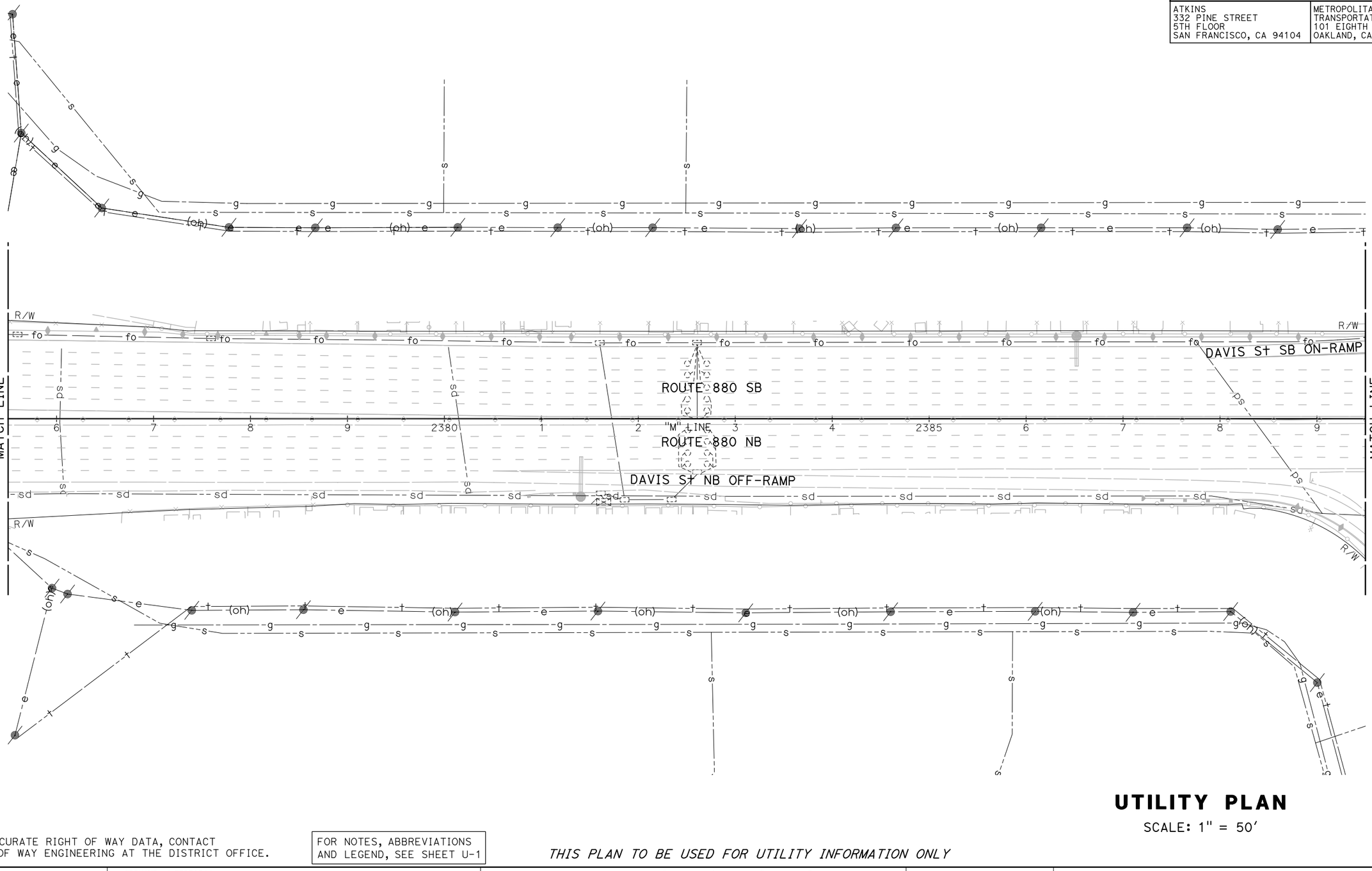
SAN FRANCISCO, CA 94104

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-100

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 9:32:23 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka101.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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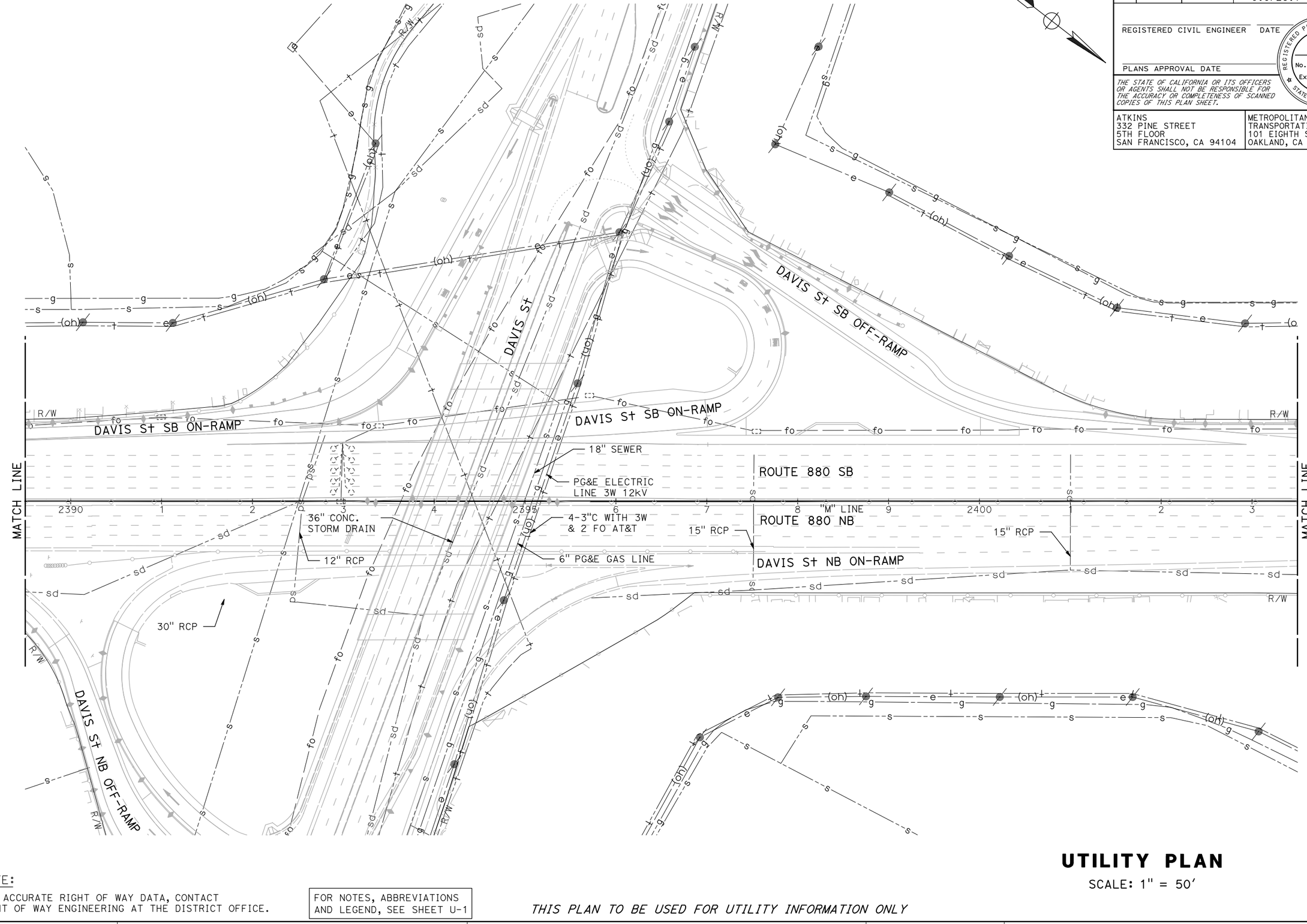
5TH FLOOR
SAN FRANCISCO, CA 94104

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-101

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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LAST REVISION
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 9:34:18 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka102.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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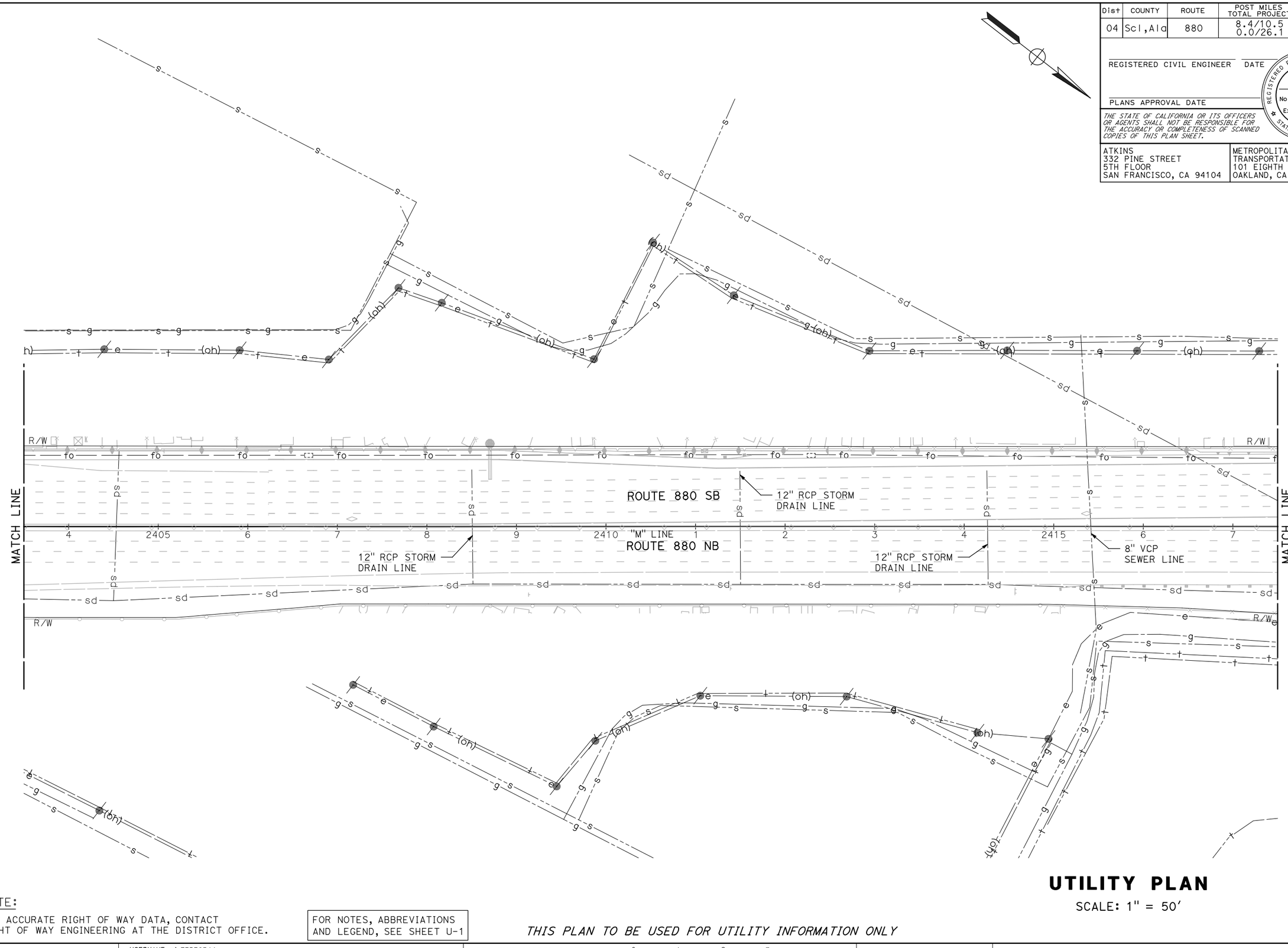
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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-102

CALCULATED-DESIGNED BY	REVISED BY	CONSULTANT FUNCTIONAL SUPERVISOR	STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ARON ZEREZGHI		KAI CHAN	Caltrans
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NATHAN COPE			

c:\pw_work\atknaca01\zere2344\dms01003\ka103.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 9:36:10 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka103.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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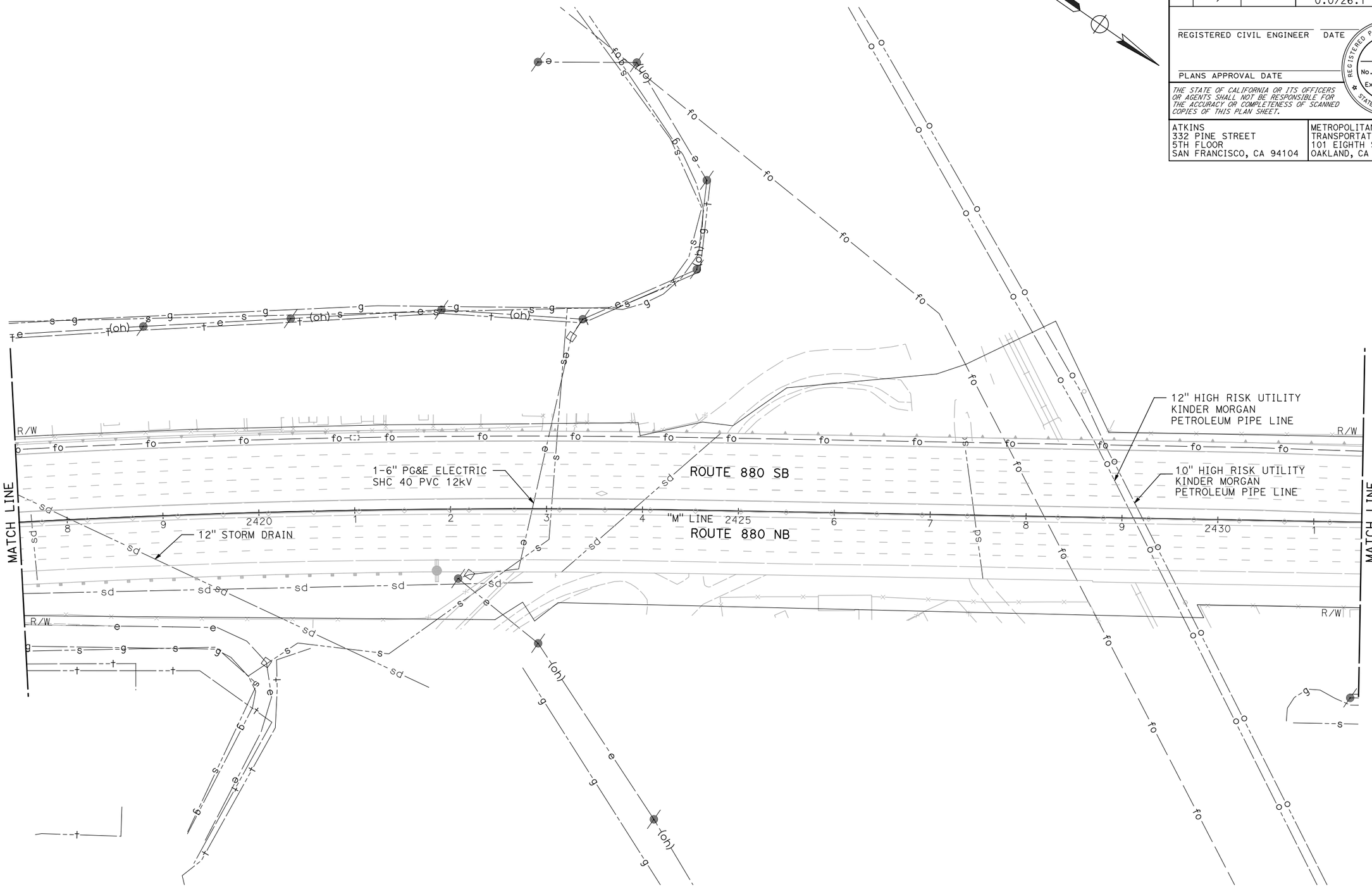
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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-103

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DATE REVISED	
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NATHAN COPE	
CHECKED BY	
CONSULTANT FUNCTIONAL SUPERVISOR	KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 9:37:58 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka104.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
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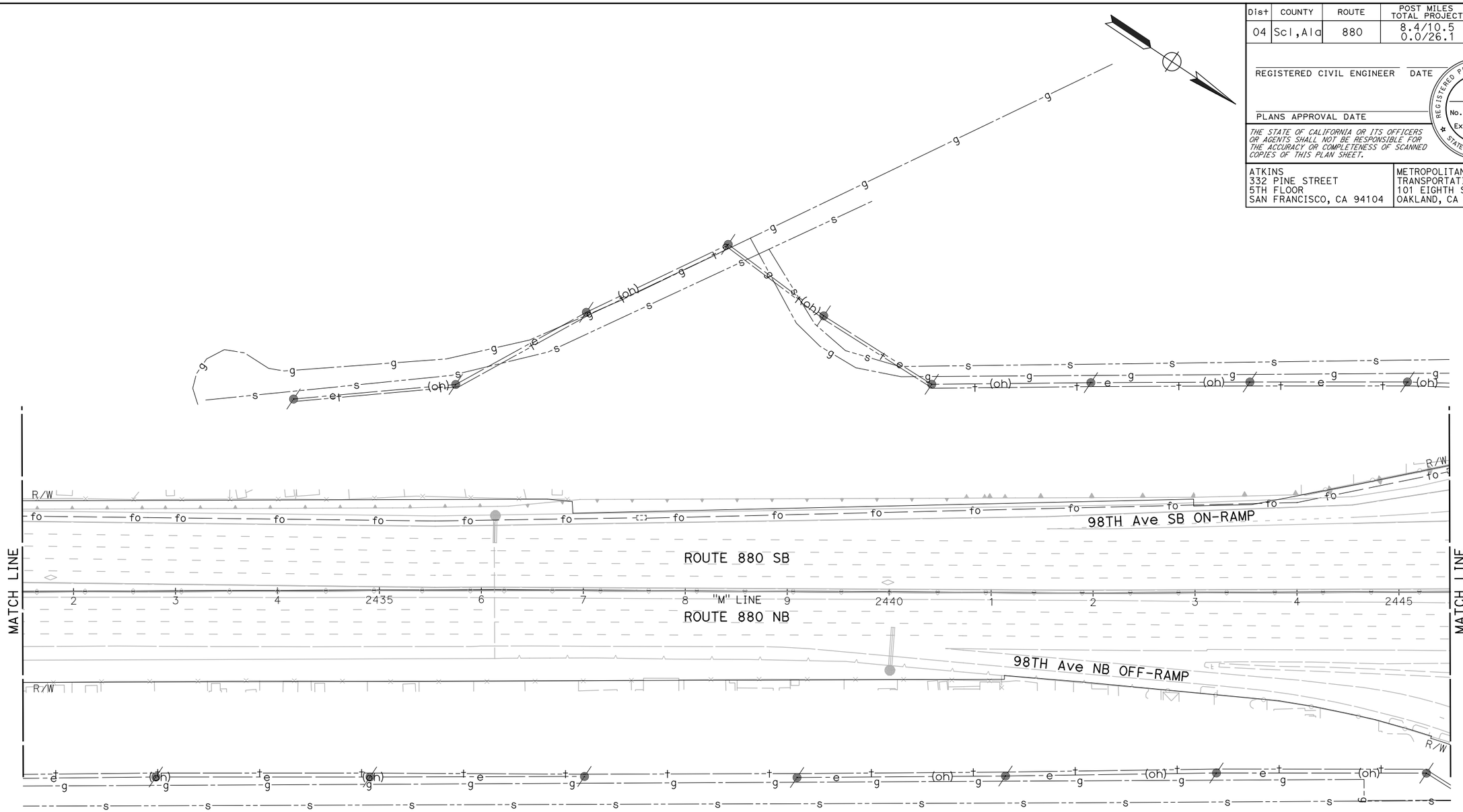
101 EIGHTH STREET
OAKLAND, CA 94607



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-104

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI

CHECKED BY: NATHAN COPE

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 91:39:47 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka105.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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5TH FLOOR
SAN FRANCISCO, CA 94104

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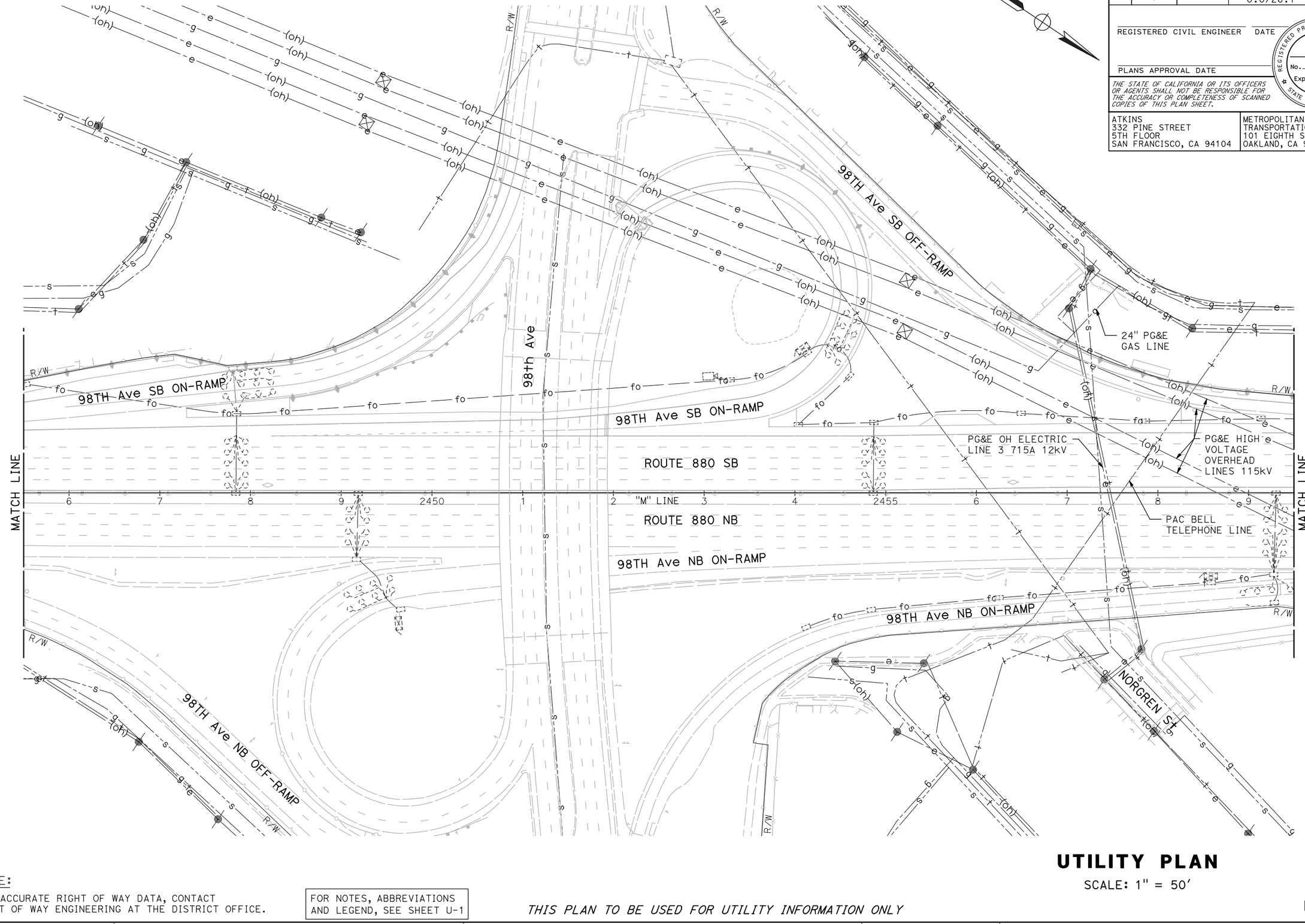
101 EIGHTH STREET
OAKLAND, CA 94607



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-105

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI
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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 => 5/24/2015
TIME PLOTTED => 9:41:34 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka106.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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5TH FLOOR
SAN FRANCISCO, CA 94104

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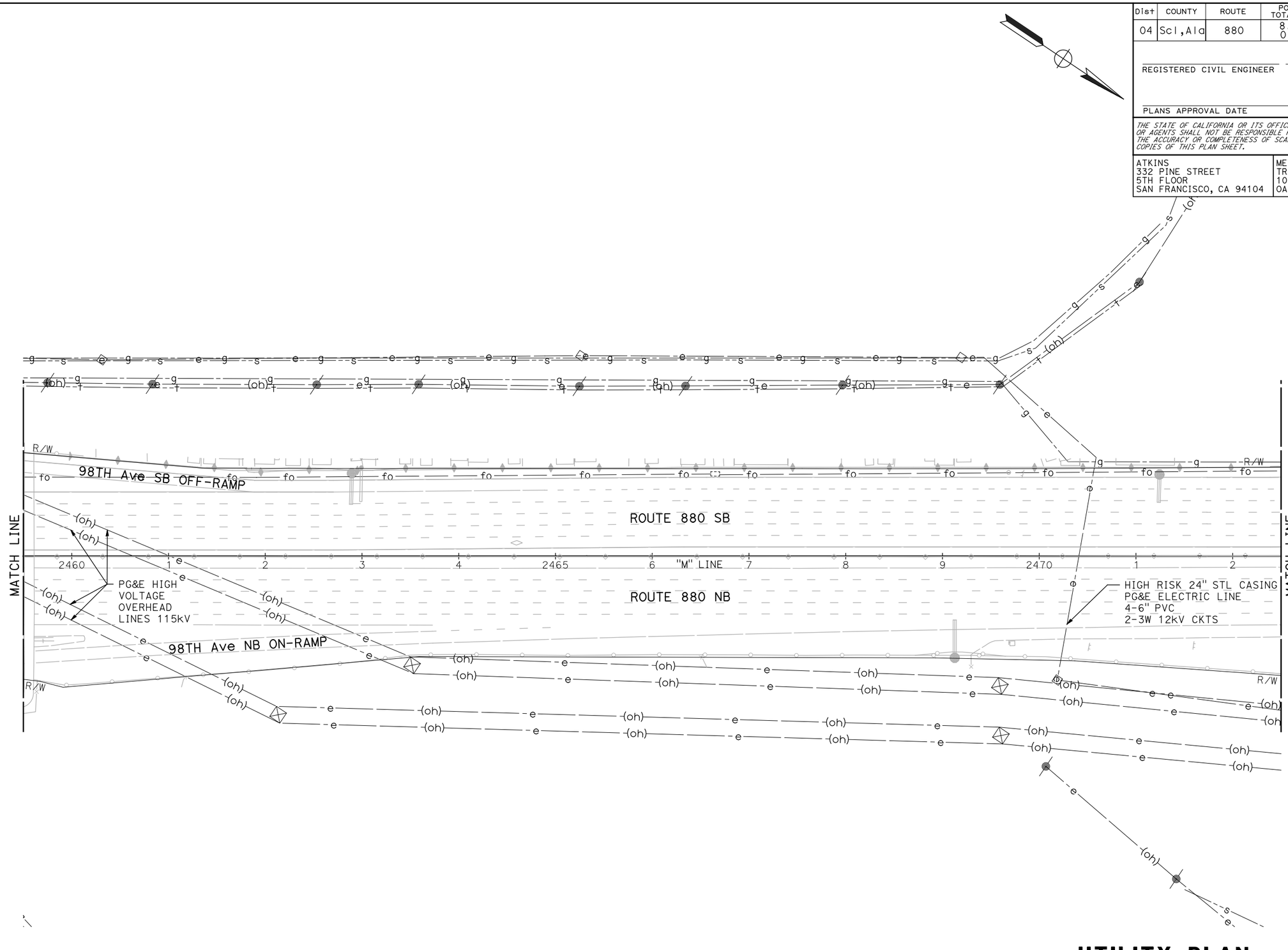
101 EIGHTH STREET
OAKLAND, CA 94607



UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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

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U-106

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARON ZEREZGHI
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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c:\pw_work\atknacal01\zere2344\dms01003\ka107.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 9:43:28 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka107.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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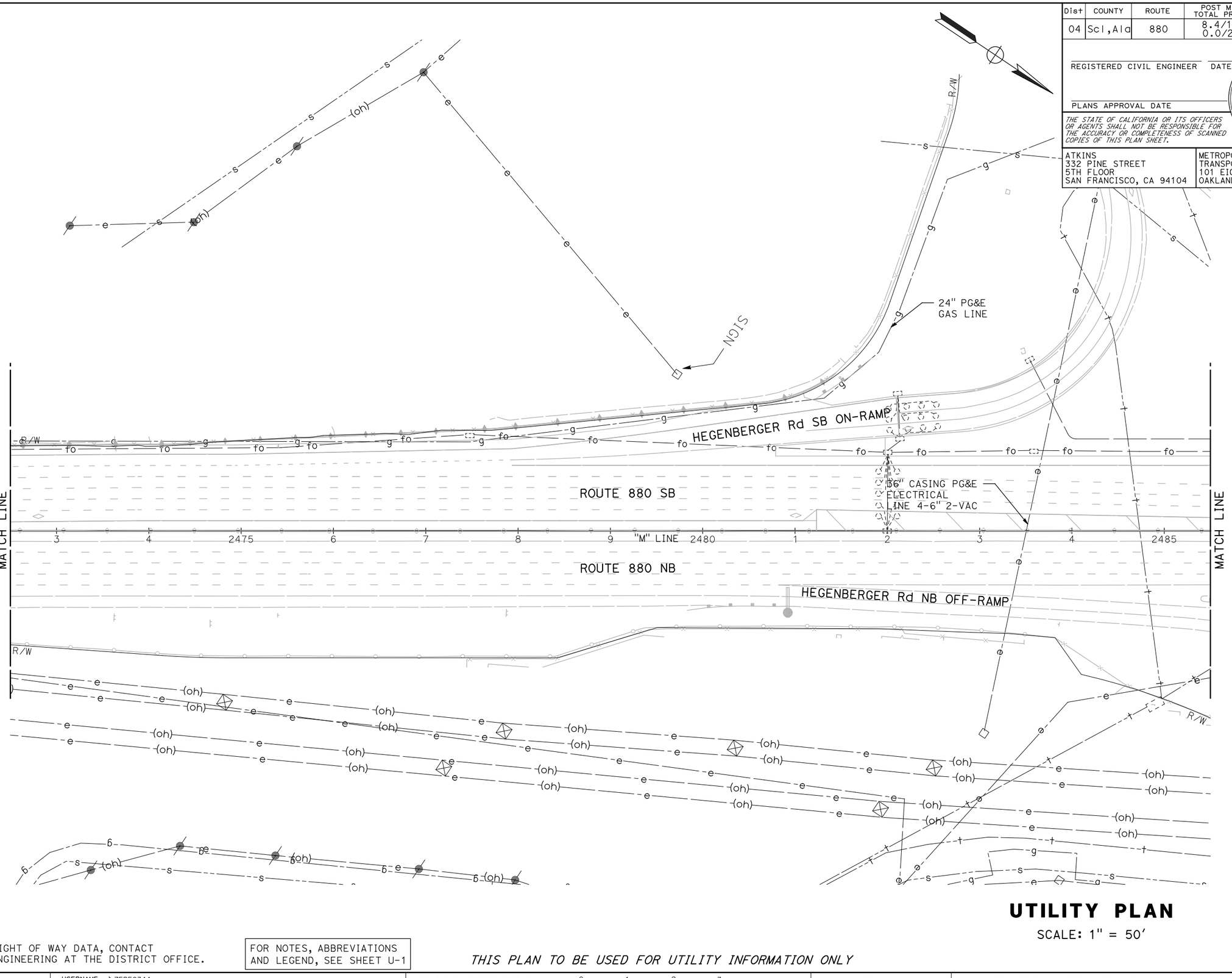
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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-107

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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LAST REVISION 00-00-00

DATE PLOTTED => 5/24/2015
TIME PLOTTED => 9:45:09 PM

BORDER LAST REVISED 10/4/2013

USERNAME => ZERE2344
DGN FILE => ka108.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT XXXX

PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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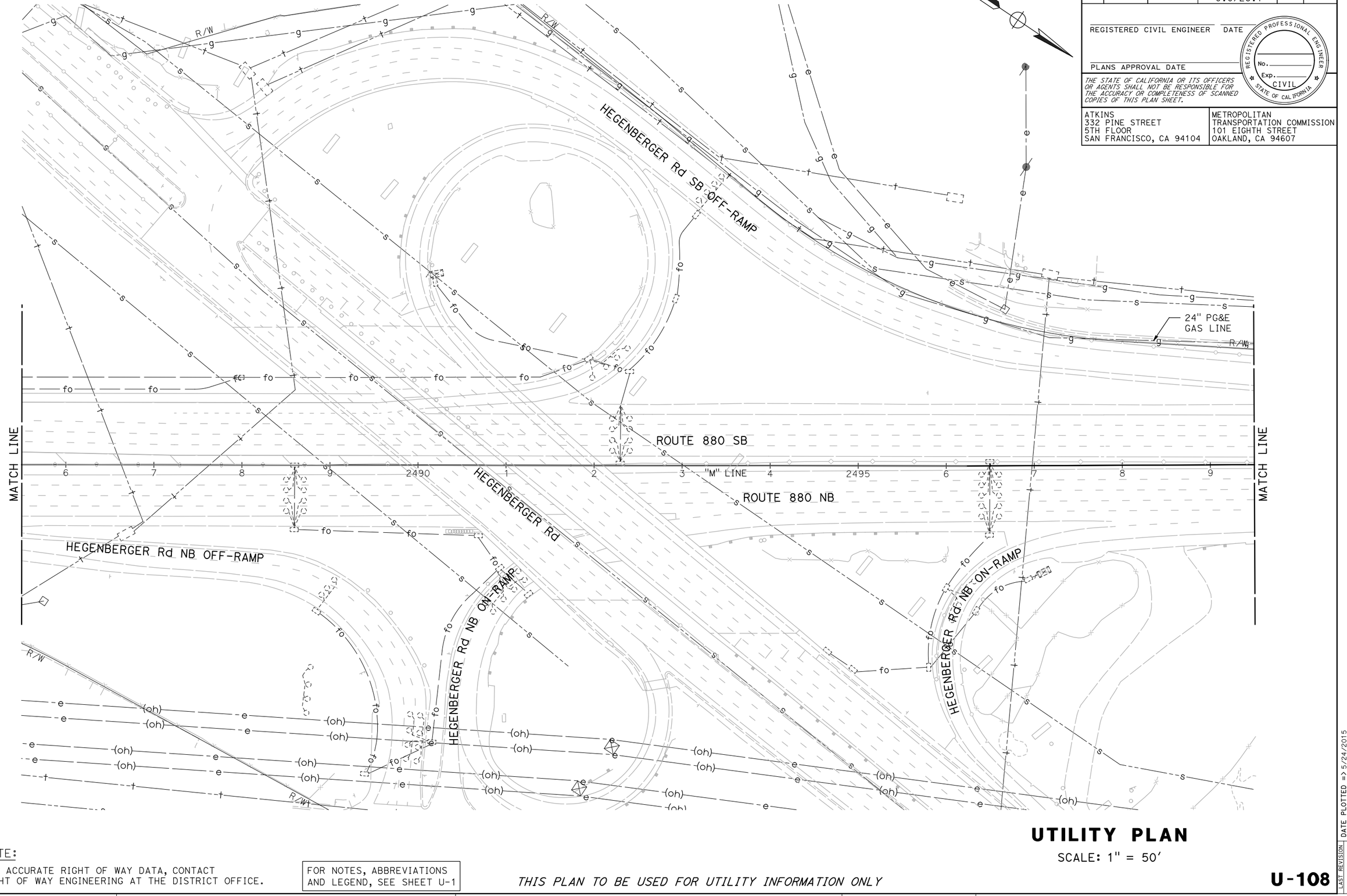
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



UTILITY PLAN

SCALE: 1" = 50'

NOTE:

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-108

REVISED BY | DATE REVISED

ARON ZEREZGHI | NATHAN COPE

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 9:46:45 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka109.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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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-109

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 | DATE PLOTTED => 5/24/2015 | 00-00-00 | TIME PLOTTED => 9:48:22 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka110.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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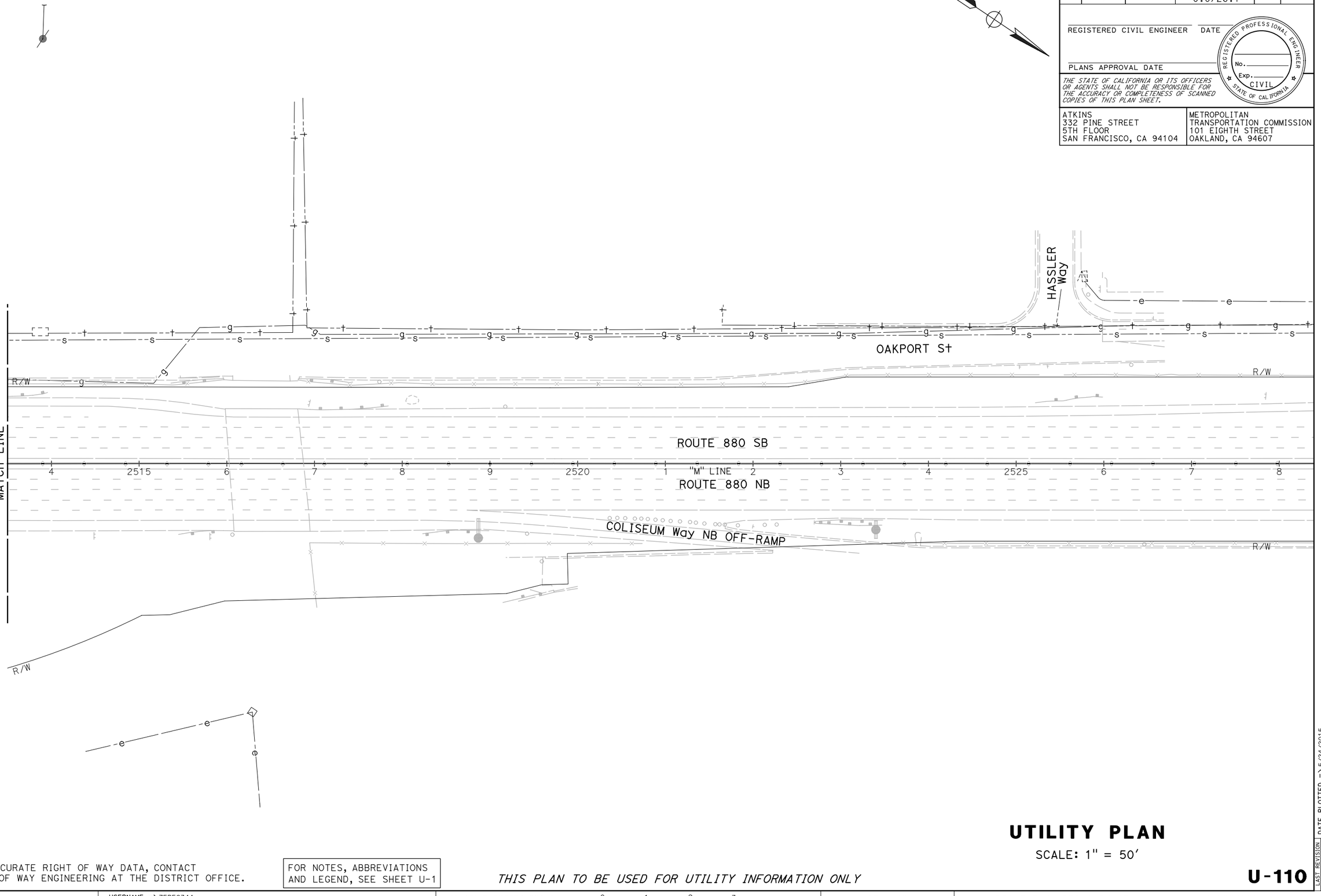
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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-110

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 9:49:57 PM

c:\pw_work\atknaca01\zere2344\dms01003\ka111.dgn

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ka111.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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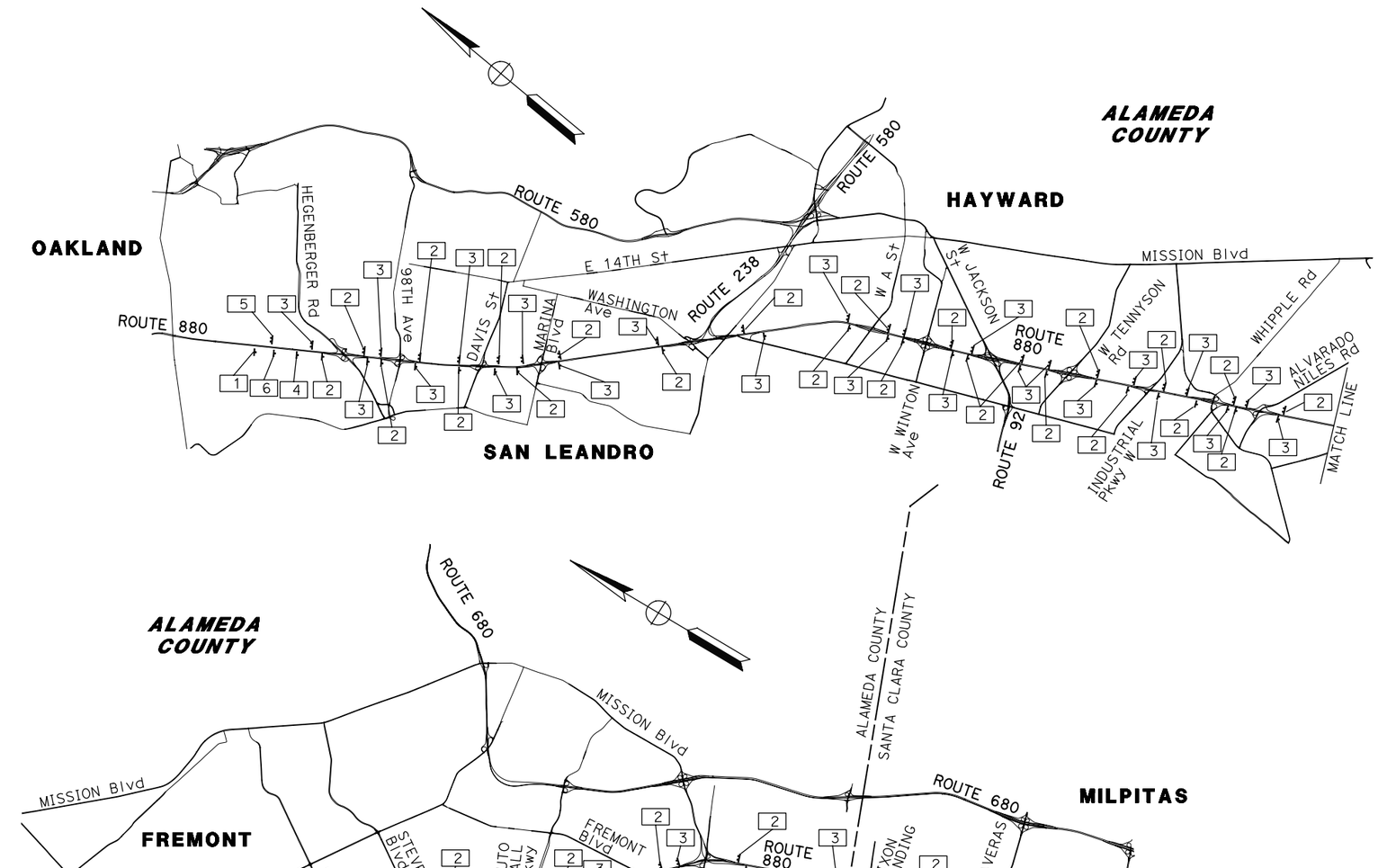
OAKLAND, CA 94607



LEGEND

- TWO- POST SIGN LOCATION
- ONE- POST SIGN LOCATION
- 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 30 MI	60" x 36"	2 - 4" x 4"	2
2	W20-1	ROAD WORK AHEAD	48" x 48"	1 - 4" x 4"	44
3	G20-2	END ROAD WORK	48" x 18"	1 - 4" x 4"	44
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"	2
6	C40 (CA)	TRAFFIC FINES DOUBLED	72" x 36"	2 - 4" x 6"	2

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

REVISED BY	DATE REVISED
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	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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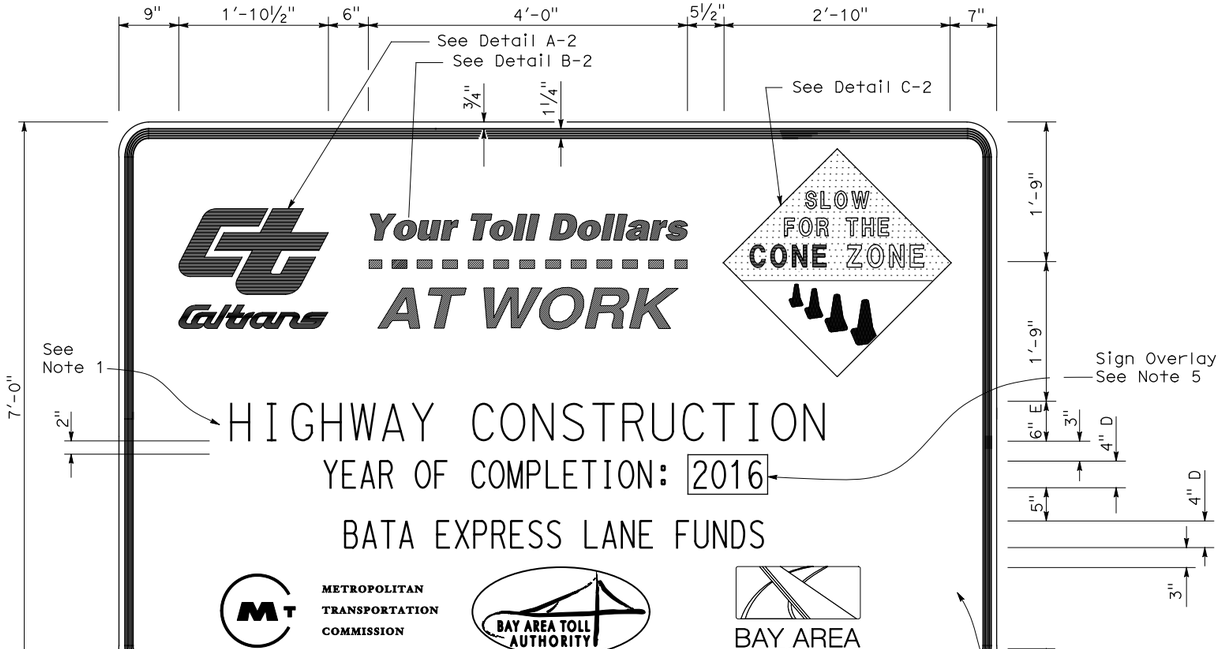
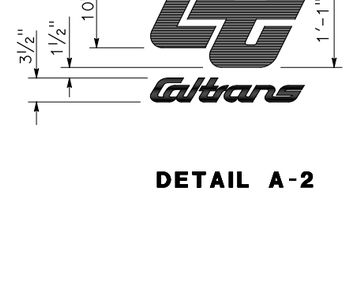
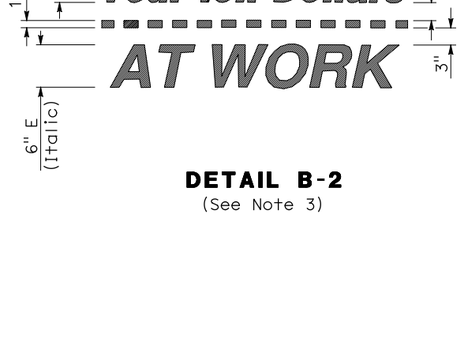


NOTES:

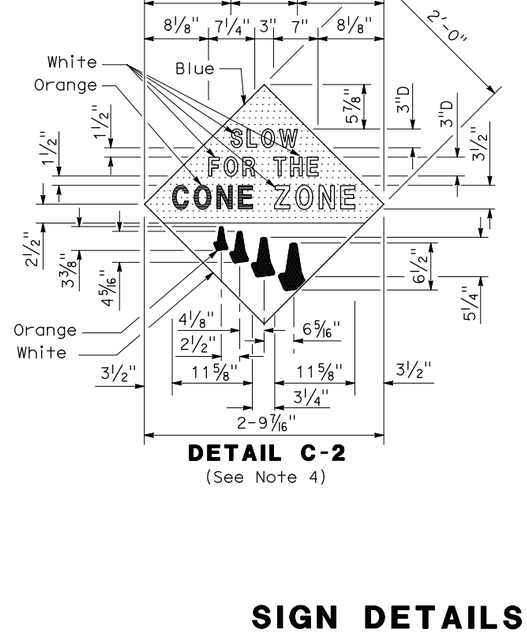
1. THE SIGN MESSAGES SHOWN FOR TYPE OF PROJECT AND FUND TYPES ARE EXAMPLES ONLY. SEE THE SPECIAL PROVISIONS FOR THE APPLICABLE TYPE OF PROJECT AND FUND TYPE MESSAGES TO BE USED.
2. EXCEPT AS OTHERWISE SHOWN, THE LEGEND OF SIGN SHALL BE BLACK ON A WHITE BACKGROUND (NON-REFLECTIVE).
3. THE BORDER OF THE SIGNS AND DETAILS "B-1" AND "B-2" SHALL BE BLUE (NON-REFLECTIVE).
4. THE DIAMOND IN DETAIL "C-2" SHALL BE BLUE FOR THE BACKGROUND OF MESSAGE, " SLOW FOR THE CONE ZONE", AND WHITE BACKGROUND FOR THE ORANGE CONES. THE COLOR AND TYPE OF FONT FOR THE "SLOW FOR THE CONE ZONE" MESSAGE SHALL BE: "SLOW" WHITE D; "FOR THE" WHITE D; "CONE" ORANGE ARIAL FONT; "ZONE" WHITE ARIAL FONT.
5. YEAR OF COMPLETION OF PROJECT CONSTRUCTION SHOWN ON THE OVERLAY IS AN EXAMPLE ONLY. SEE THE SPECIAL PROVISIONS.
6. USE WHEN THE PROJECT INVOLVES FEDERAL HIGHWAY TRUST FUND.



DETAIL A-2



DETAIL B-2
(See Note 3)



DETAIL C-2
(See Note 4)

SIGN DETAILS

NO SCALE

SD-1

REVISED BY	DATE REVISED
ARON ZEREZGHI	NATHAN COPE

CALCULATED-DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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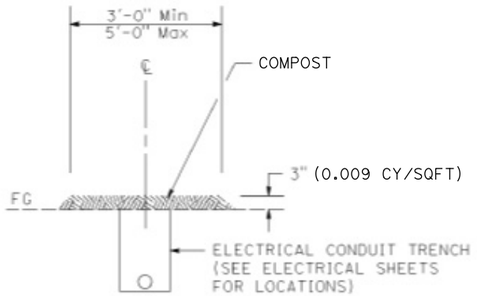
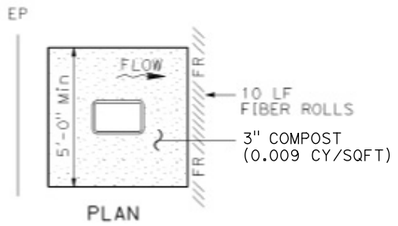


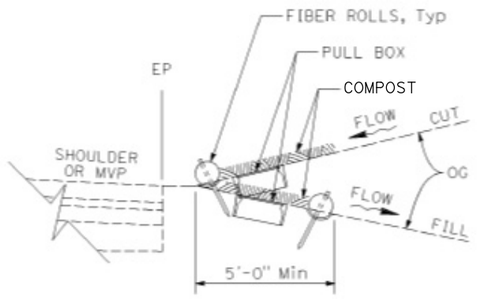
SECTION

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-112	FIBER OPTIC CONDUIT TRENCHING	-	102,782
E-03 THRU E-112	ELECTRICAL COMPONENTS	1,600	4,000
	TOTAL	1,600	106,782

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

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

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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 ZONE RECOVERY 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 ONE (1) TRUNK SPLICE BETWEEN BACKHAUL COMMUNICATION HUB CABINETS AT CALAVERAS Blvd AND AUTO MALL Pkwy TO ACCOMMODATE FIBER OPTIC CABLE REEL LENGTHS. CONTRACTOR SHALL BE ALLOWED UP TO FIVE (5) TRUNK SPLICES BETWEEN BACKHAUL COMMUNICATION HUB CABINETS AT AUTO MALL Pkwy AND HEGENBERGER Rd 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, APPREVIATIONS, AND INDEX OF ELECTRICAL PLANS
E-2	LEGEND
E-3 - E-112	BACKHAUL COMMUNICATIONS SYSTEM
E-113	ELECTRICAL DETAILS (FIBER OPTIC PULL BOX)
E-114	ELECTRICAL DETAILS (FIBER OPTIC SPLICE VAULT)
E-115	ELECTRICAL DETAILS (TRUNKLINE MODIFICATION)
E-116	ELECTRICAL DETAILS (FIBER OPTIC CONDUIT AND TRENCH DETAIL)
E-117	ELECTRICAL DETAILS (FIBER OPTIC MARKER)
E-118	ELECTRICAL DETAILS (HUB CABINET CONTENTS DETAIL)
E-119	ELECTRICAL DETAILS (HUB CABINET FOUNDATION)
E-120	ELECTRICAL DETAILS (HUB CABINET DETAIL)
E-121	ELECTRICAL DETAILS (I-880 NETWORK OVERVIEW)
E-122 TO E-124	ELECTRICAL QUANTITIES (BACKHAUL)
E-125	ELECTRICAL QUANTITIES (CALAVERAS Blvd HUB FIBER OPTIC SPLICE DIAGRAM)
E-126 TO E-127	ELECTRICAL DETAILS (AUTO MALL Pkwy HUB FIBER OPTIC SPLICE DIAGRAM)
E-128	ELECTRICAL DETAILS (SV-ITS FIBER OPTIC SPLICE DIAGRAM - AUTO MALL)
E-129	ELECTRICAL DETAILS (HEGENBERGER HUB FIBER OPTIC SPLICE DIAGRAM)
E-130	ELECTRICAL DETAILS (SERVICE EQUIPMENT ENCLOSURE TYPICAL WIRING DIAGRAM)
E-131	ELECTRICAL DETAILS (CONDUIT SUPPORT)

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
MTC	METROPOLITAN TRANSPORTATION COMMISSION
PDU	POWER DISTRIBUTION UNIT
PG&E	PACIFIC GAS & ELECTRIC
SMFO	SINGLE MODE FIBER OPTIC
STR	STRAND
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-114 FOR INSTALLATION DETAIL)
FB		FIBER OPTIC PULL BOX (SEE SHEET E-113 FOR INSTALLATION DETAIL)

GENERAL NOTES, LEGEND, APPREVIATIONS, AND INDEX OF ELECTRICAL PLANS

E-1

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
JOEY PASKEY	KEVIN AGUIGUI

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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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-118 THROUGH E-120 FOR FOUNDATION AND EQUIPMENT INSTALLATION DETAILS.
2. PROVIDE 30′ OF 288 STR SMFO CABLE SLACK IN NEW PULL BOX. SEE DETAIL D ON SHEET E-115.
3. PROVIDE 30′ OF 288 STR SMFO CABLE SLACK IN EXISTING PULL BOX. SEE DETAIL D ON SHEET E-115.
4. INSTALL FIBER OPTIC SPLICE VAULT. SEE SHEET E-114 FOR INSTALLATION DETAILS.
5. PROVIDE 1000′ OF 288 STR SMFO CABLE SLACK IN NEW BAIFA HUB CABINET ASSEMBLY.
6. Exist. 3-3" C. INSTALL 288 STR SMFO CABLE IN EMPTY CONDUIT AS DIRECTED BY THE ENGINEER.
7. Exist. 6-3" C. INSTALL 288 STR SMFO CABLE IN EMPTY CONDUIT AS DIRECTED BY THE ENGINEER.
8. INSTALL 3" C. INSTALL 1-24 STR SMFO CABLE.
9. INSTALL CONDUIT VIA HORIZONTAL DIRECTIONAL DRILL METHOD.
10. INSTALL 3-3" C. INSTALL 1-288 STR SMFO CABLE IN CONDUIT AS DIRECTED BY THE ENGINEER.
11. INSTALL FIBER OPTIC SPLICE CLOSURE IN PROPOSED SPLICE VAULT. SPLICE 288 STR SMFO CABLE IN PROPOSED SPLICE CLOSURE. SEE SHEET E-125 THROUGH E-128 FOR FIBER SPLICING DIAGRAMS.
12. INSTALL 3" C, 3#1/0 (120 / 240 V BAIFA HUB CABINET).
13. 2"C, 2#2 (120 / 240 V), 1#2 (GND).
14. RC Exist PULL BOX AND CONNECT EXISTING TRUNKLINE CONDUIT FOR FIBER OPTIC CABLE. SEE DETAIL A ON SHEET E-115.
15. RC Exist PULL BOX AND INSTALL FIBER OPTIC PULL BOX WITH EXTENSIONS AND MODIFY Exist CONDUIT RUNS AS REQUIRED FOR FIBER OPTIC INSTALLATION. SEE DETAIL B ON SHEET E-115.
16. 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.
17. INSTALL FIBER OPTIC SPLICE CLOSURE IN EXISTING CABINET.
18. SPLICE 24 STR SMFO BACKHAUL CABLE TO Exist SV-ITS SMFO IN Exist SPLICE CLOSURE. SEE SHEET E-XX FOR DETAIL.
19. STRAP 3"C (STEEL RIGID) ON EXISTING STRUCTURE, INSTALL 1-288 STR SMFO CABLE. SEE DETAIL ON SHEET E-130.
20. PROVIDE 30′ OF 24 STR SMFO CABLE SLACK IN NEW PULL BOX.
21. PROVIDE 2000′ OF 24 STR SMFO CABLE SLACK IN NEW FIBER OPTIC SPLICE VAULT. PROTECT UNTERMINATED 24 STR SMFO CABLE IN PLACE.
22. INSTALL 3-3"C. INSTALL 1-288 STR SMFO AND 1-24 STR SMFO CABLE IN CONDUIT AS DIRECTED BY THE ENGINEER.
23. INSTALL No. 6(E) PULL BOX TRAFFIC RATED.
24. INSTALL 3-3"C. PT.
25. INSTALL 2-3"C, 1-288 STR SMFO AND 1-24 STR SMFO CABLE IN CONDUIT AS DIRECTED BY THE ENGINEER.
26. INSTALL 3-3"C. INSTALL 2-288 STR SMFO CABLE IN CONDUIT AS DIRECTED BY THE ENGINEER.

PROJECT NOTES

E-2

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI

CALCULATED-DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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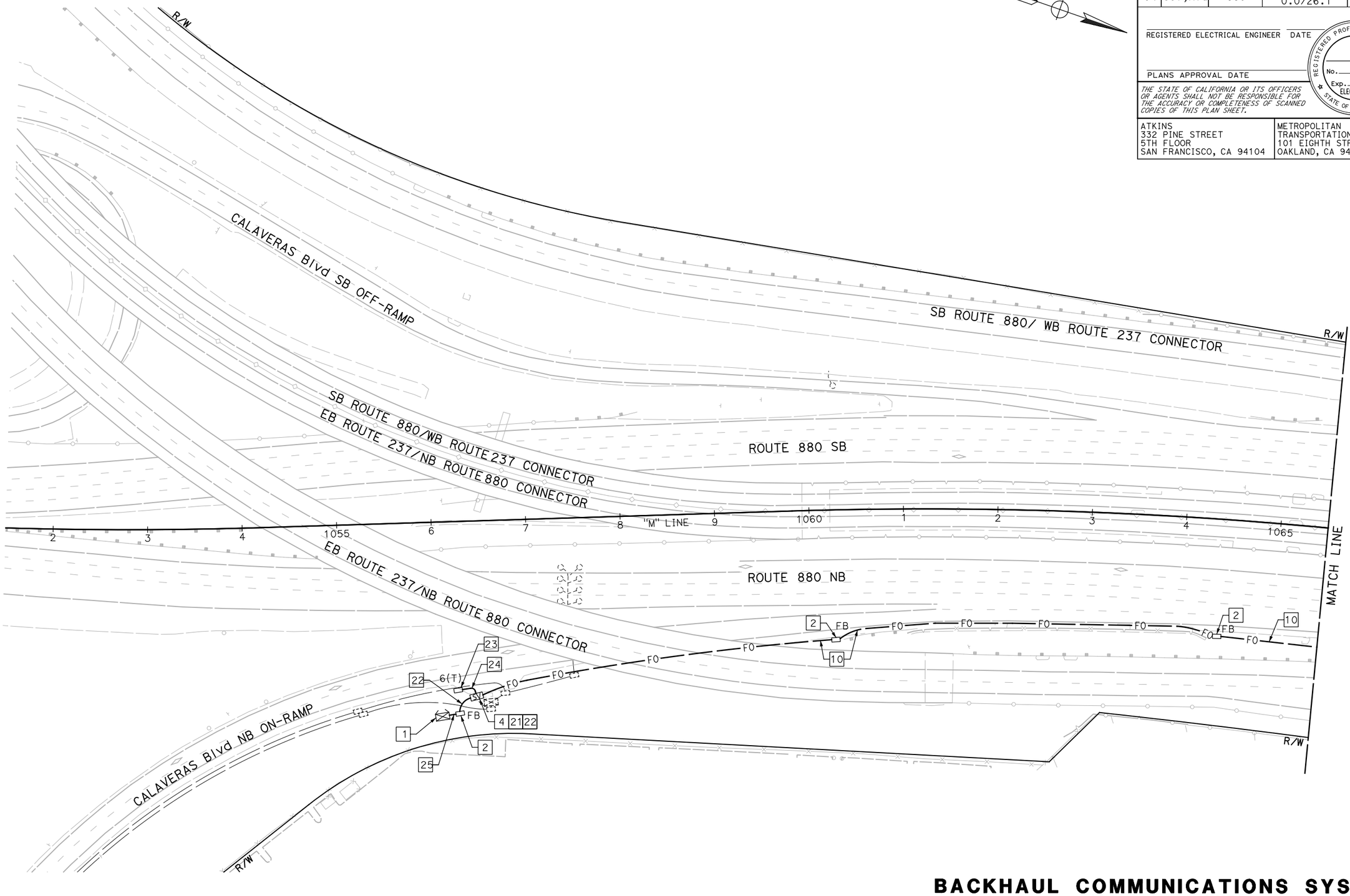

NOTE:

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

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

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(CALAVERAS HUB)

SCALE: 1" = 50'

E-3

CALCULATED-DESIGNED BY

CHECKED BY

JOEY PASKEY

KEVIN AGUIGUI

REVISED BY

DATE REVISED

CONSULTANT FUNCTIONAL SUPERVISOR

KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION DATE PLOTTED => 5/24/2015
00-00-00 TIME PLOTTED => 9:53:43 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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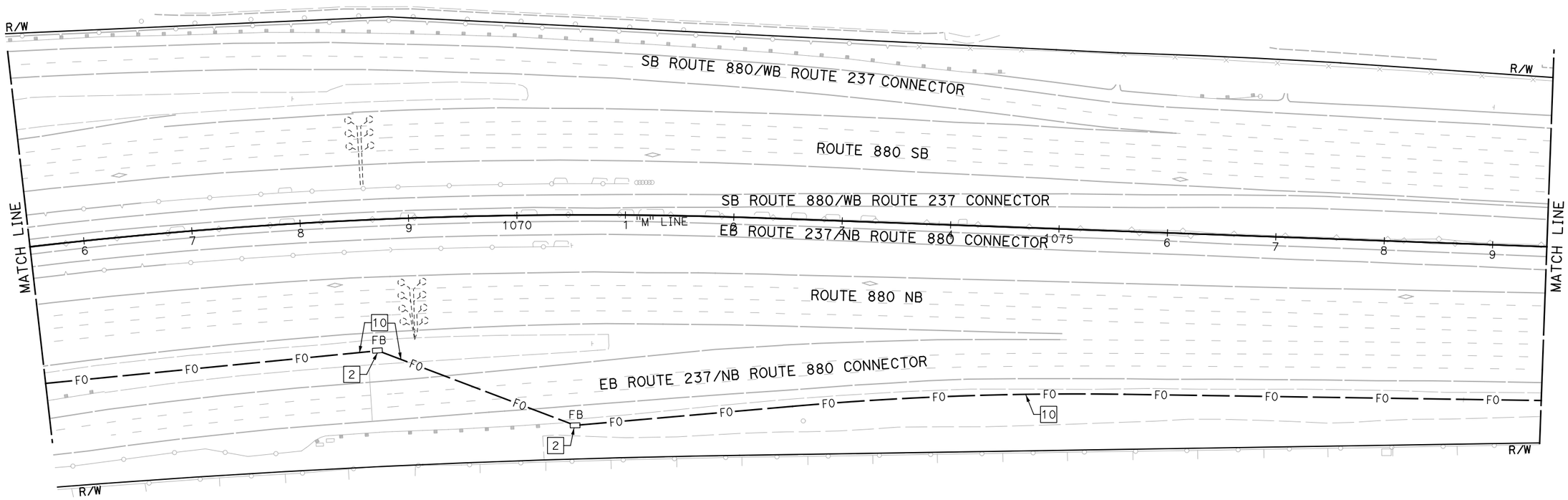
5TH FLOOR
SAN FRANCISCO, CA 94104

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 E-1

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-4

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI

CALCULATED-DESIGNED BY

CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION 00-00-00

DATE PLOTTED => 5/24/2015
TIME PLOTTED => 9:55:27 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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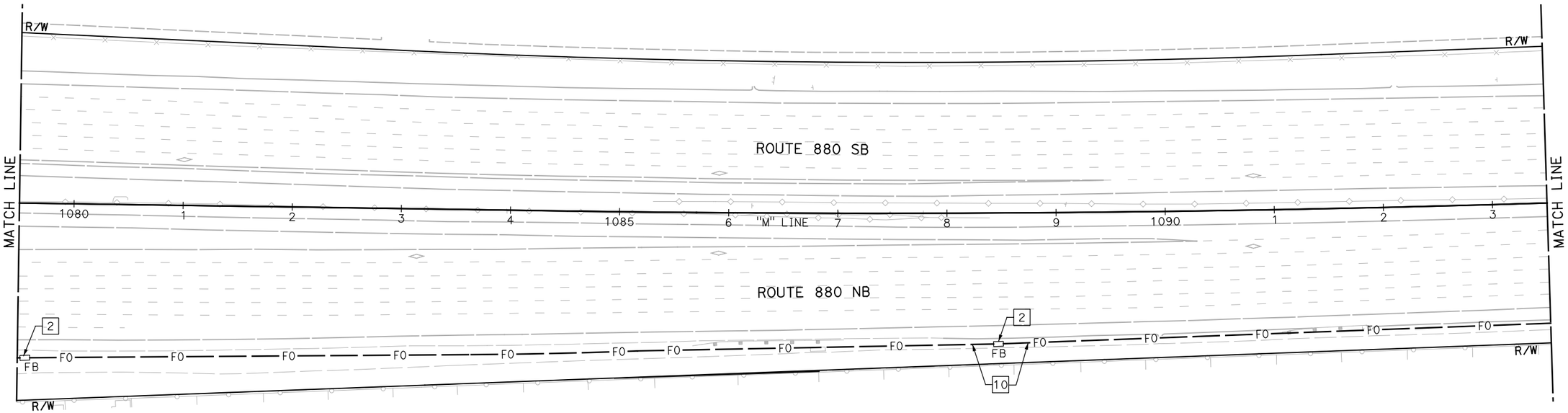
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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

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E-5

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ua005.dgn

LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 9:57:20 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua005.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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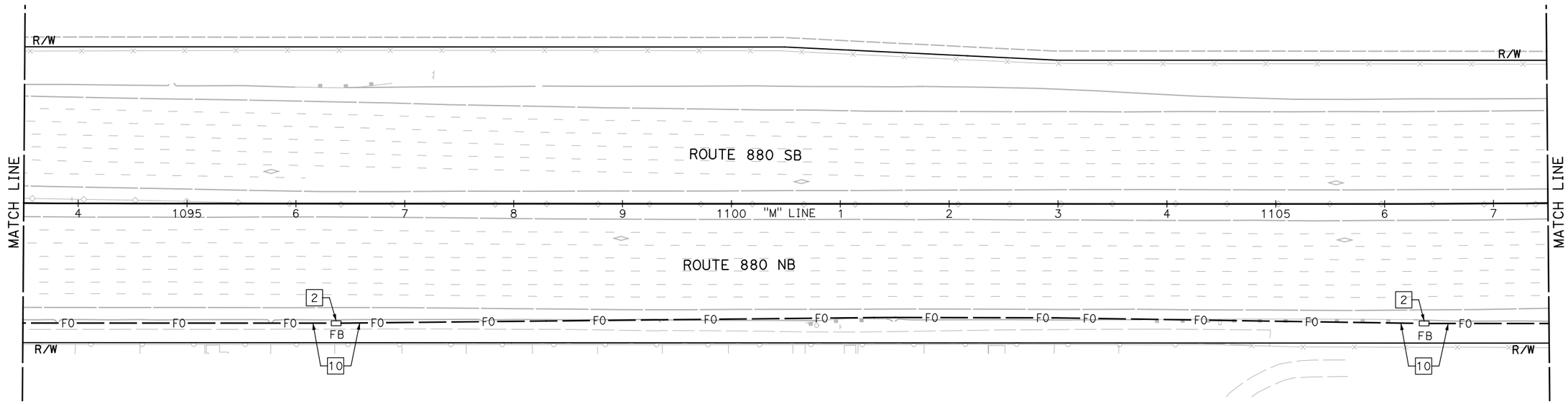
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-6

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

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LAST REVISION 00-00-00 DATE PLOTTED => 5/24/2015 TIME PLOTTED => 9:59:04 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua006.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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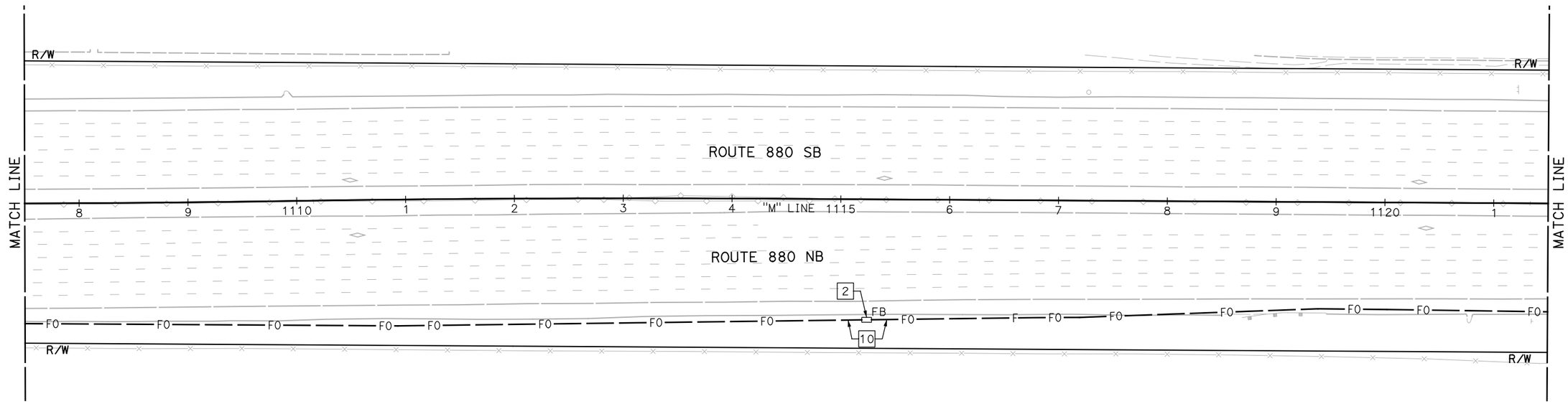
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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

E-7

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

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LAST REVISION 00-00-00 DATE PLOTTED => 5/24/2015 TIME PLOTTED => 10:00:45 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua007.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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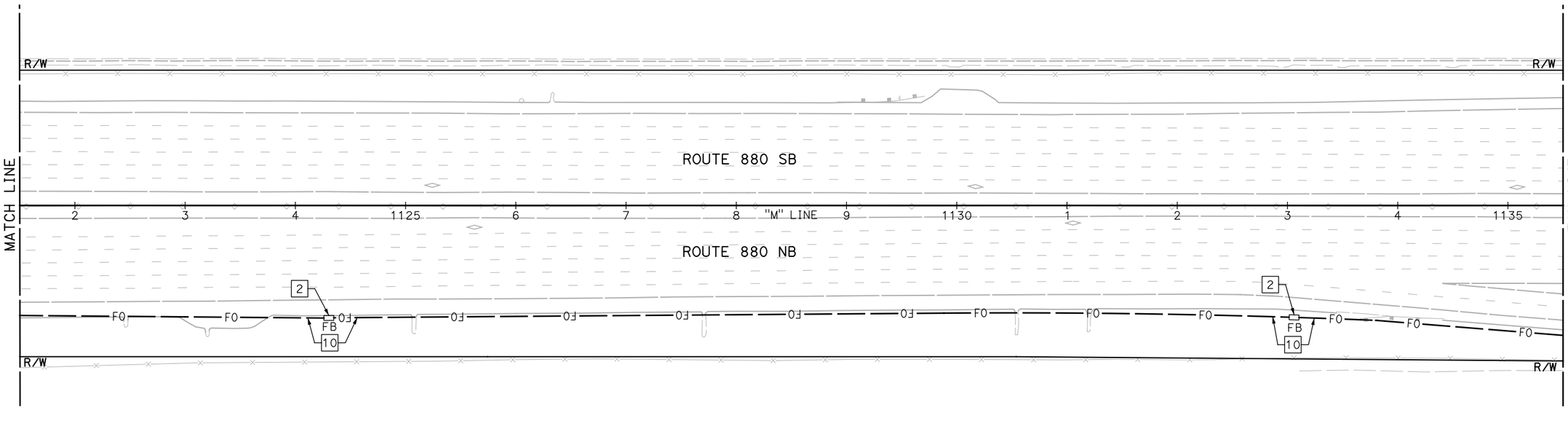
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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

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E-8

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 00-00-00 DATE PLOTTED => 5/24/2015 TIME PLOTTED => 10:02:26 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua008.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

METROPOLITAN
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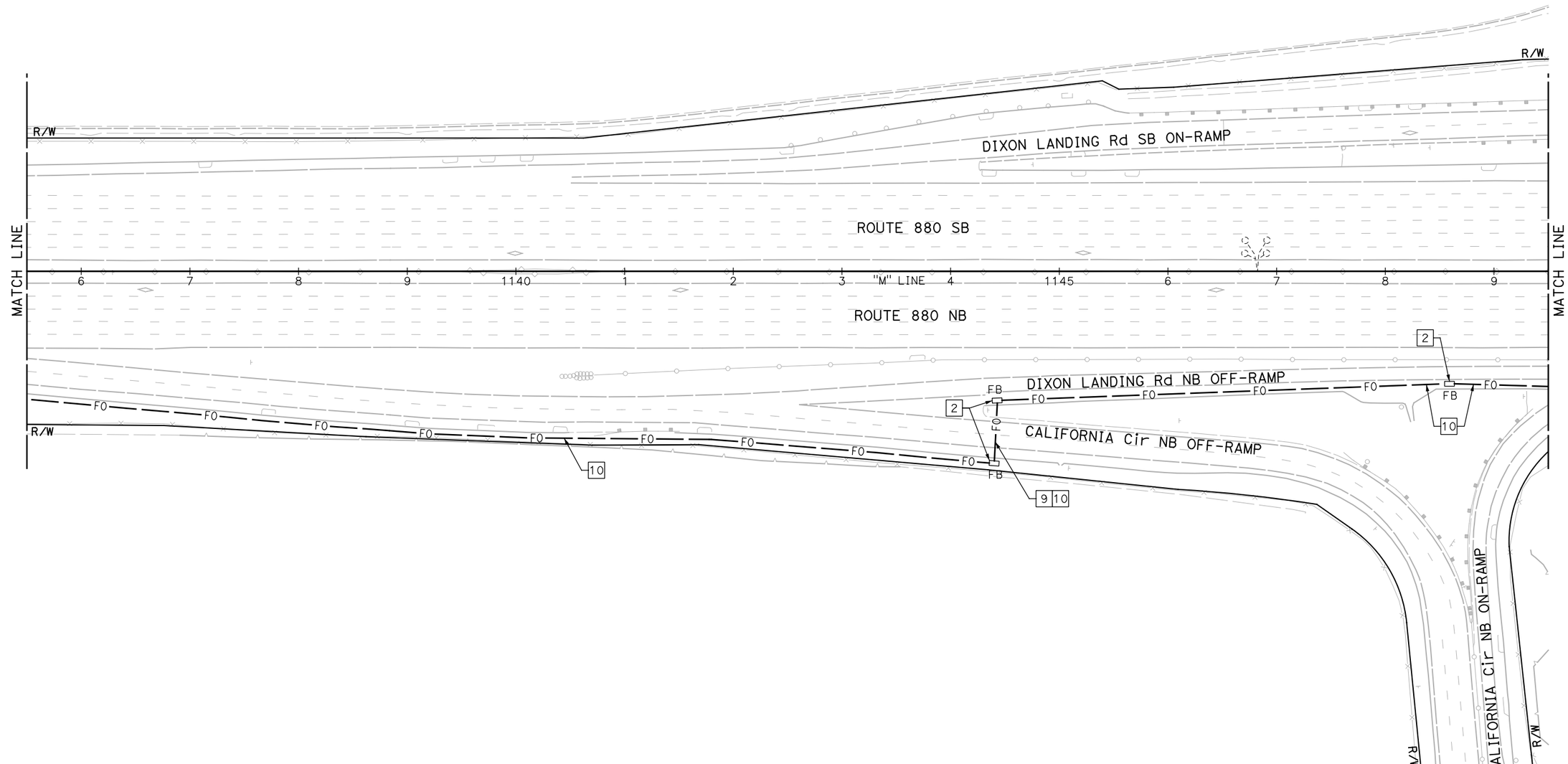
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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

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E-9

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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DATE PLOTTED => 5/24/2015
TIME PLOTTED => 10:04:07 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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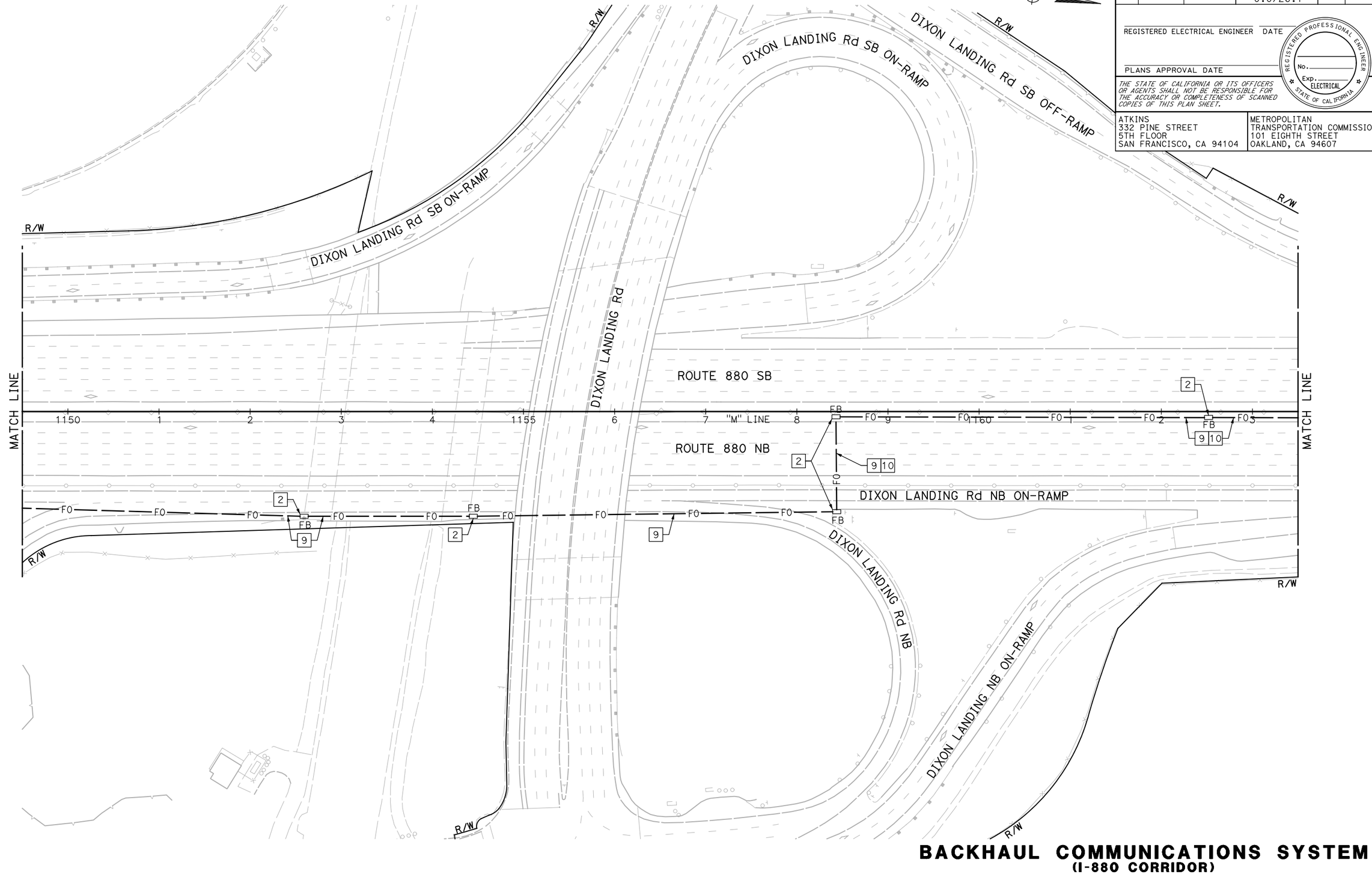
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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

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E-10

REVISED BY	DATE REVISED
JOEY PASKEY	
KEVIN AGUIGUI	

CALCULATED-DESIGNED BY

CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION DATE PLOTTED => 5/24/2015
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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua010.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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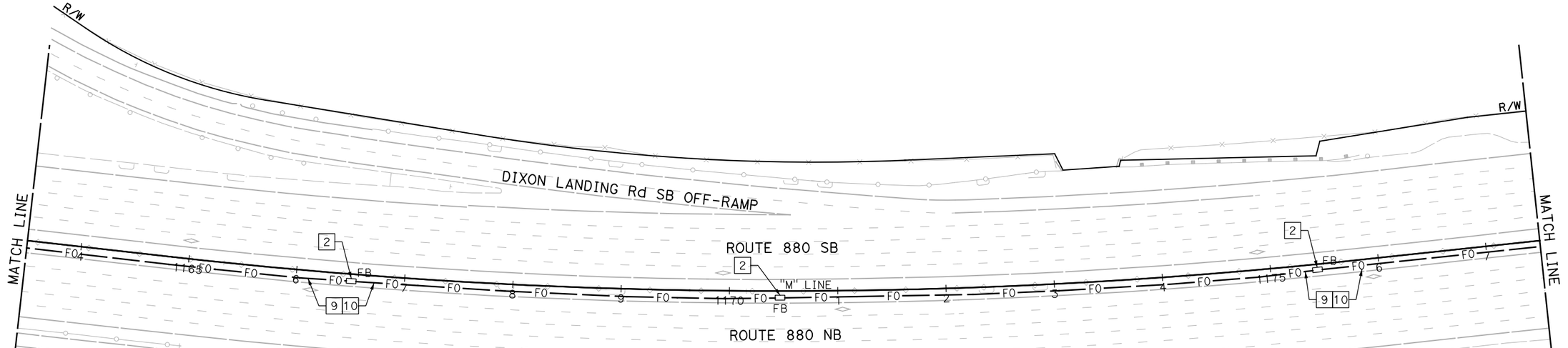
5TH FLOOR
SAN FRANCISCO, CA 94104

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 E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-11

CALCULATED-DESIGNED BY	JOEY PASKEY
CHECKED BY	KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR	KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 10:07:56 PM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua011.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL 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

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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-12

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY

CHECKED BY: KEVIN AGUIGUI

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 00-00-00

DATE PLOTTED => 5/24/2015
TIME PLOTTED => 10:09:47 PM

BORDER LAST REVISED 10/4/2013

USERNAME => ZERE2344
DGN FILE => ua012.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT XXXX

PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
ELECTRICAL
STATE OF CALIFORNIA

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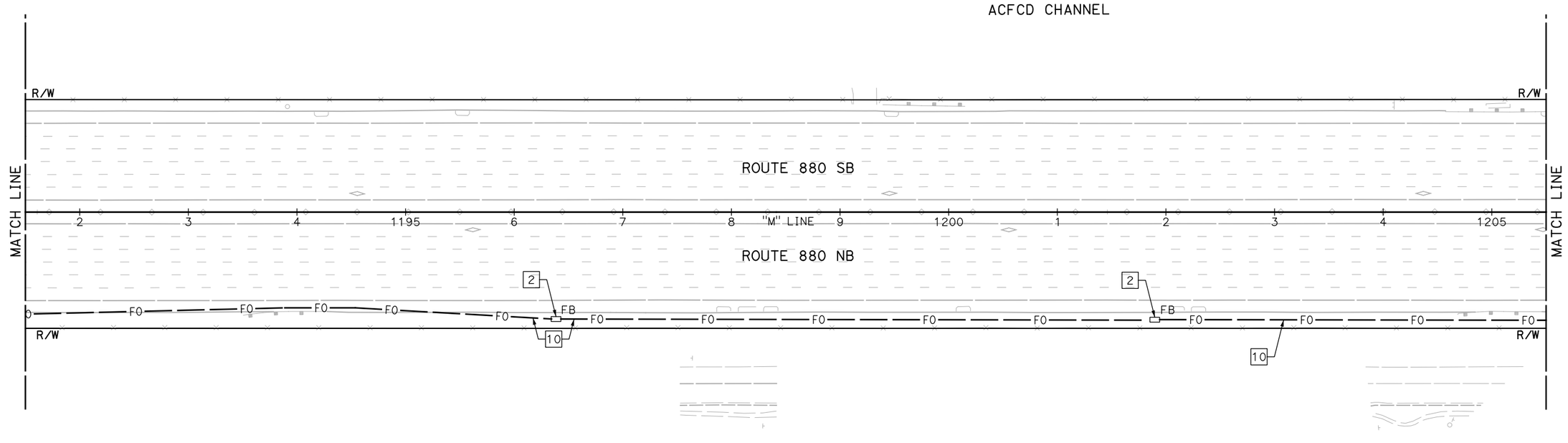
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-13

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 10:11:25 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua013.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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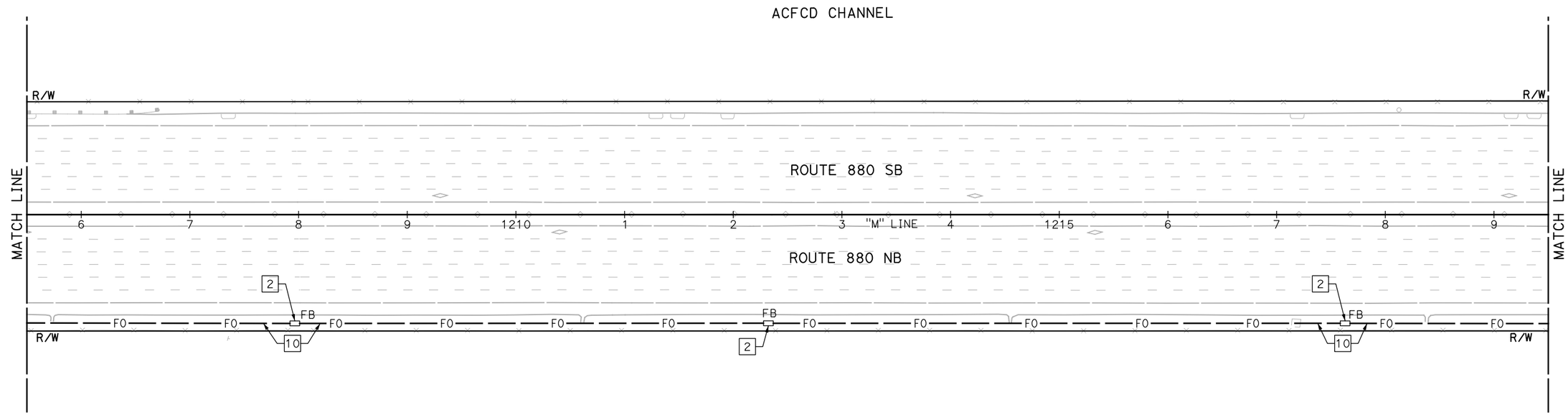
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
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
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-14

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 5/24/2015
00-00-00 TIME PLOTTED => 10:13:14 PM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua014.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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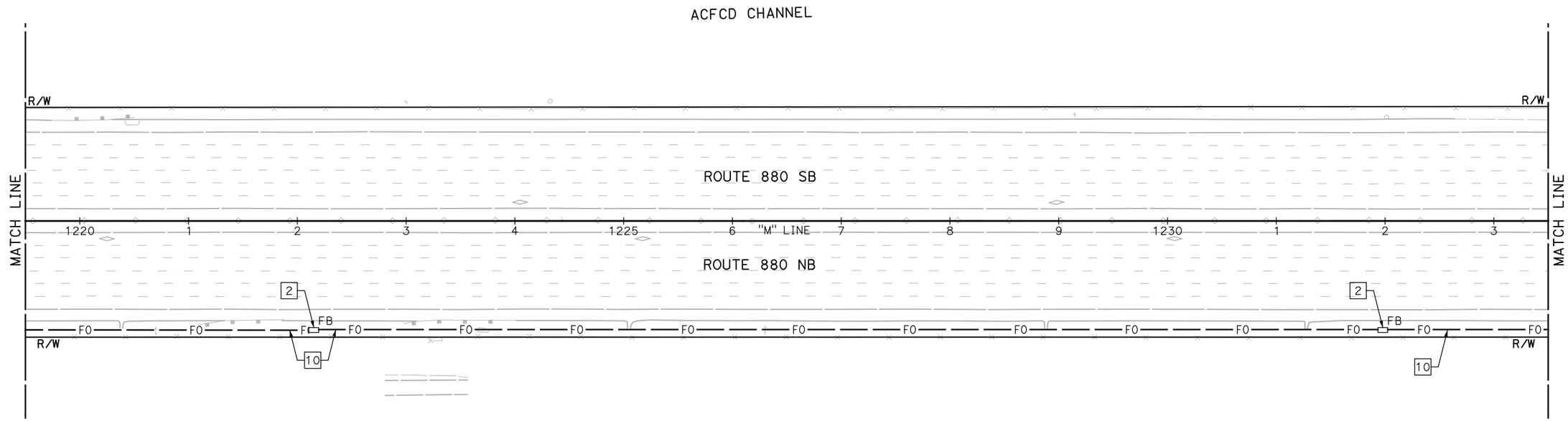
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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

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E-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

CALCULATED-DESIGNED BY: JOEY PASKEY

CHECKED BY: KEVIN AGUIGUI

REVISED BY

DATE REVISED

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LAST REVISION 00-00-00

DATE PLOTTED => 5/24/2015
TIME PLOTTED => 10:14:55 PM

BORDER LAST REVISED 10/4/2013

USERNAME => ZERE2344
DGN FILE => ua015.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT XXXX

PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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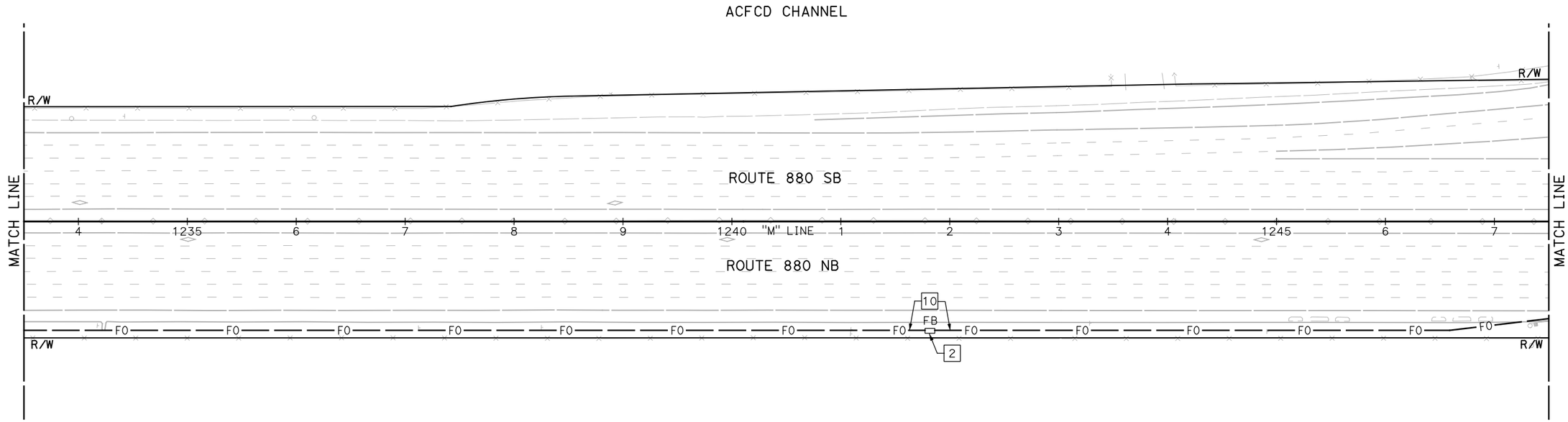
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-16

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Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

CALCULATED-DESIGNED BY: JOEY PASKEY

CHECKED BY: KEVIN AGUIGUI

REVISED BY

DATE REVISED

c:\pw_work\atknaca01\zere2344\dms01003\ua016.dgn

LAST REVISION 00-00-00

DATE PLOTTED => 5/24/2015
TIME PLOTTED => 10:16:38 PM

BORDER LAST REVISED 10/4/2013

USERNAME => ZERE2344
DGN FILE => ua016.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT XXXX

PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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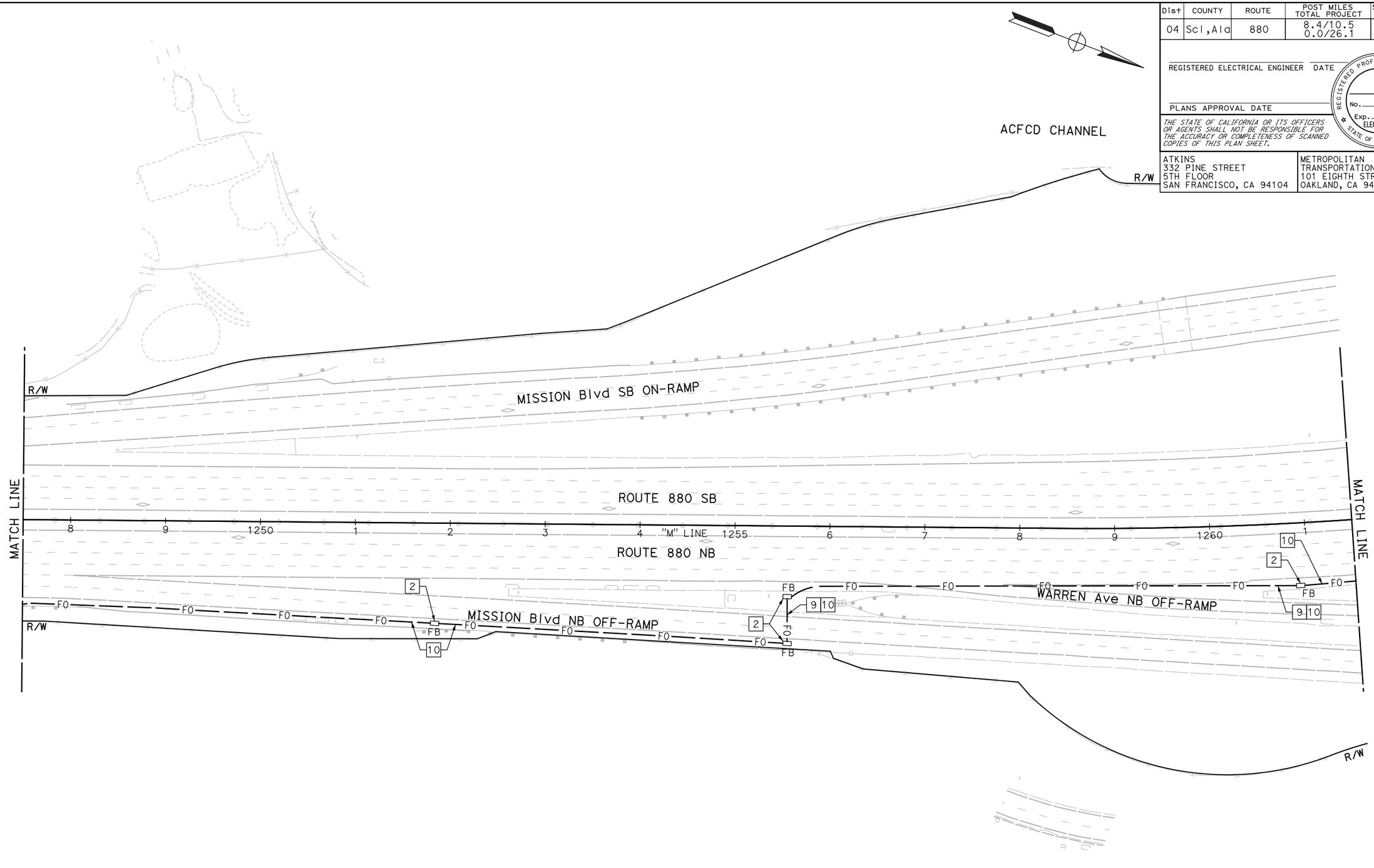
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-17

REVISED BY	DATE REVISED
JOEY PASKEY	00-00-00
KEVIN AGUIGUI	

CALCULATED-DESIGNED BY

CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION DATE PLOTTED => 5/24/2015
TIME PLOTTED => 10:18:57 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua017.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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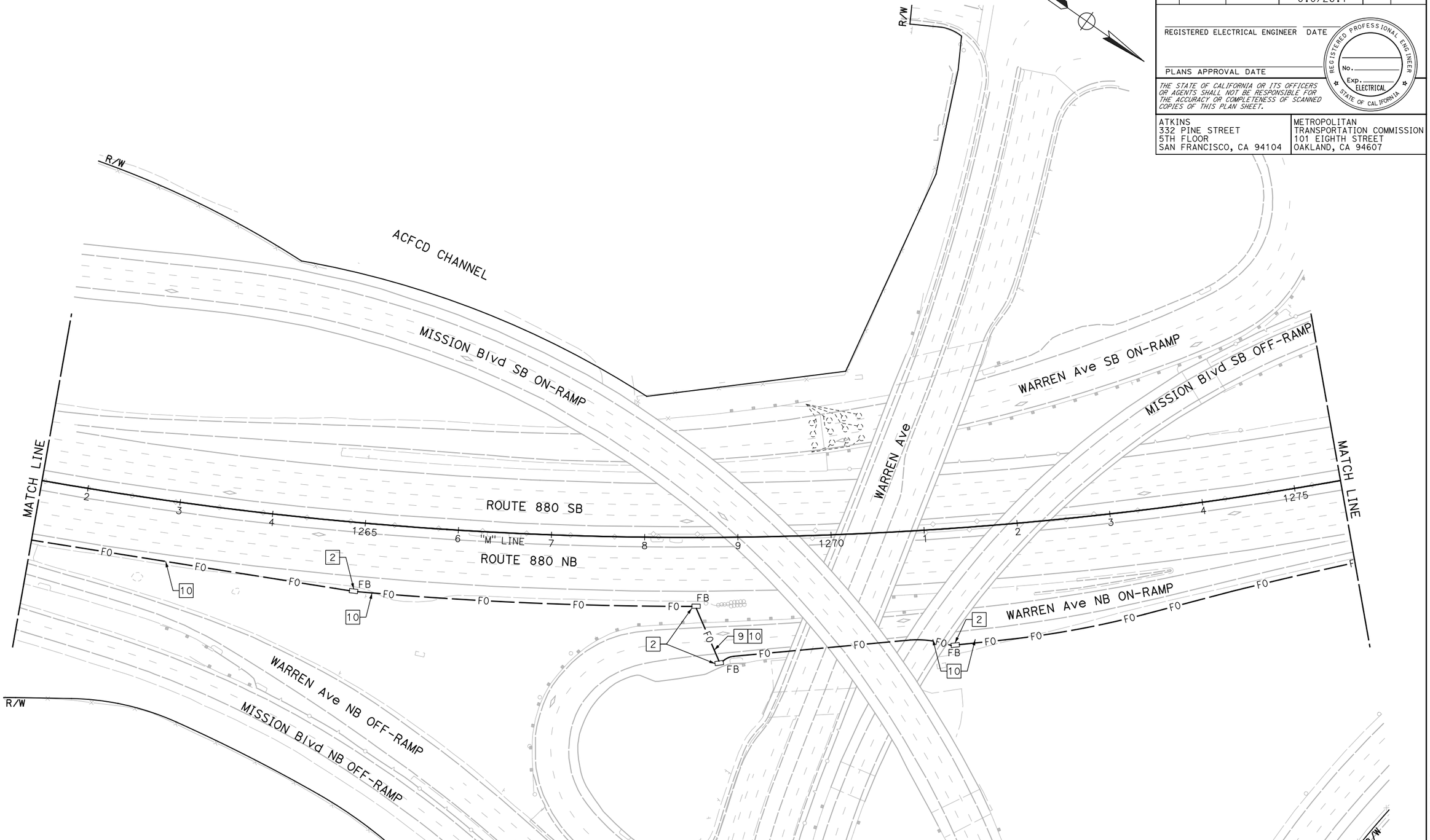
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-18

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI
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 => 5/24/2015 TIME PLOTTED => 10:20:40 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua018.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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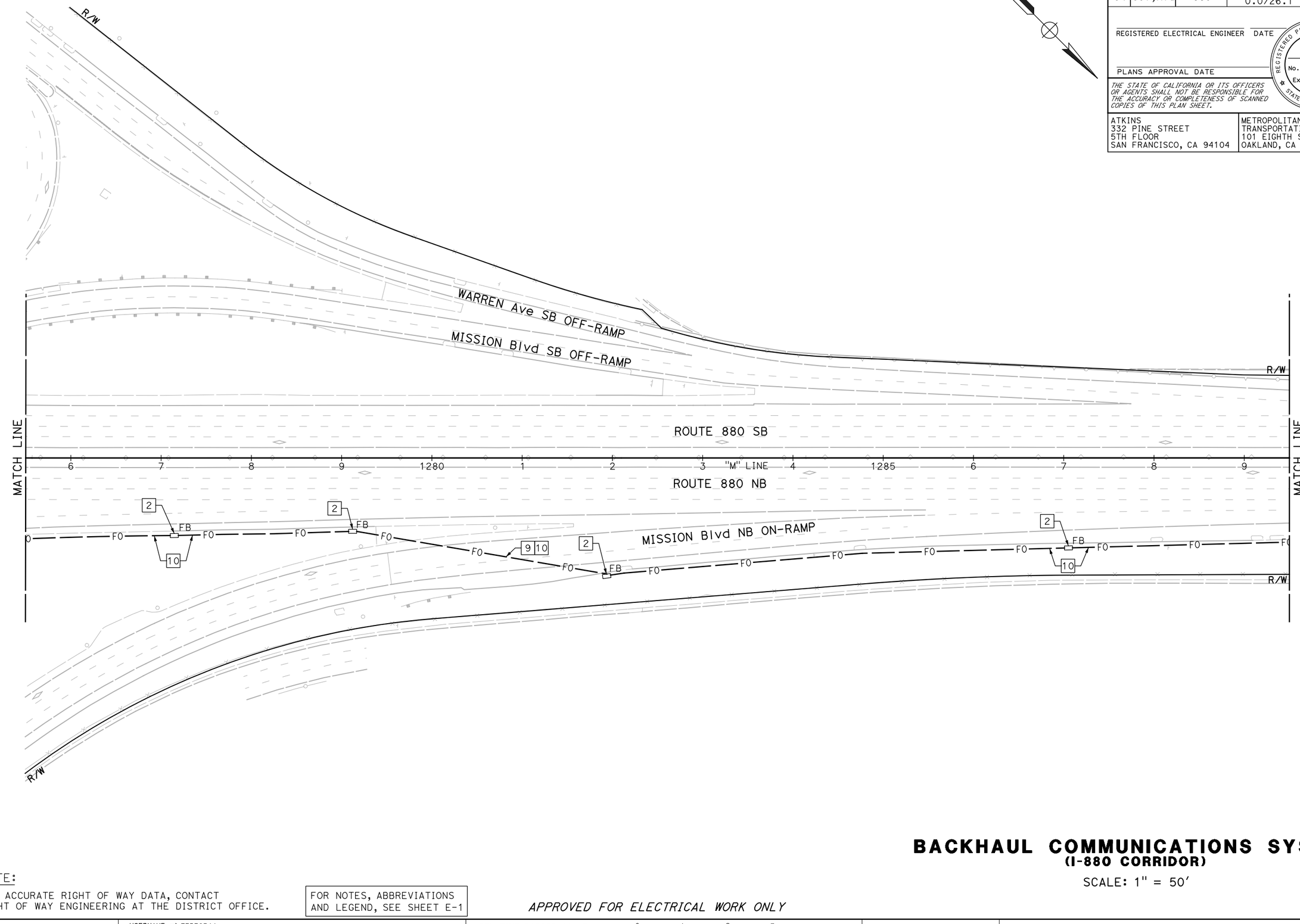
5TH FLOOR
SAN FRANCISCO, CA 94104

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 E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-19

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 10:22:24 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
ELECTRICAL
STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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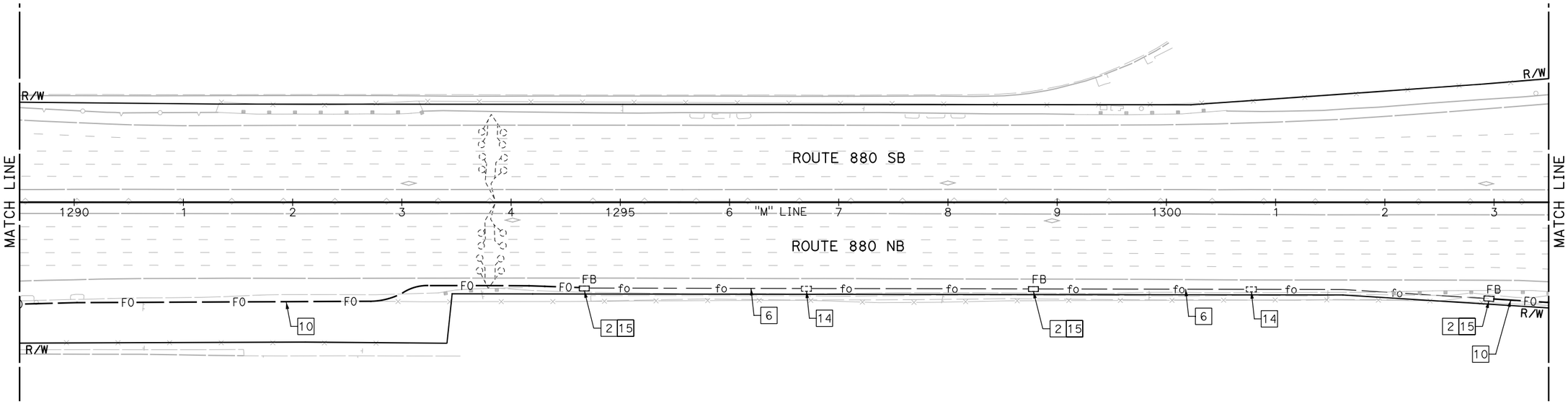
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-20

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 10:24:04 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp. ELECTRICAL
STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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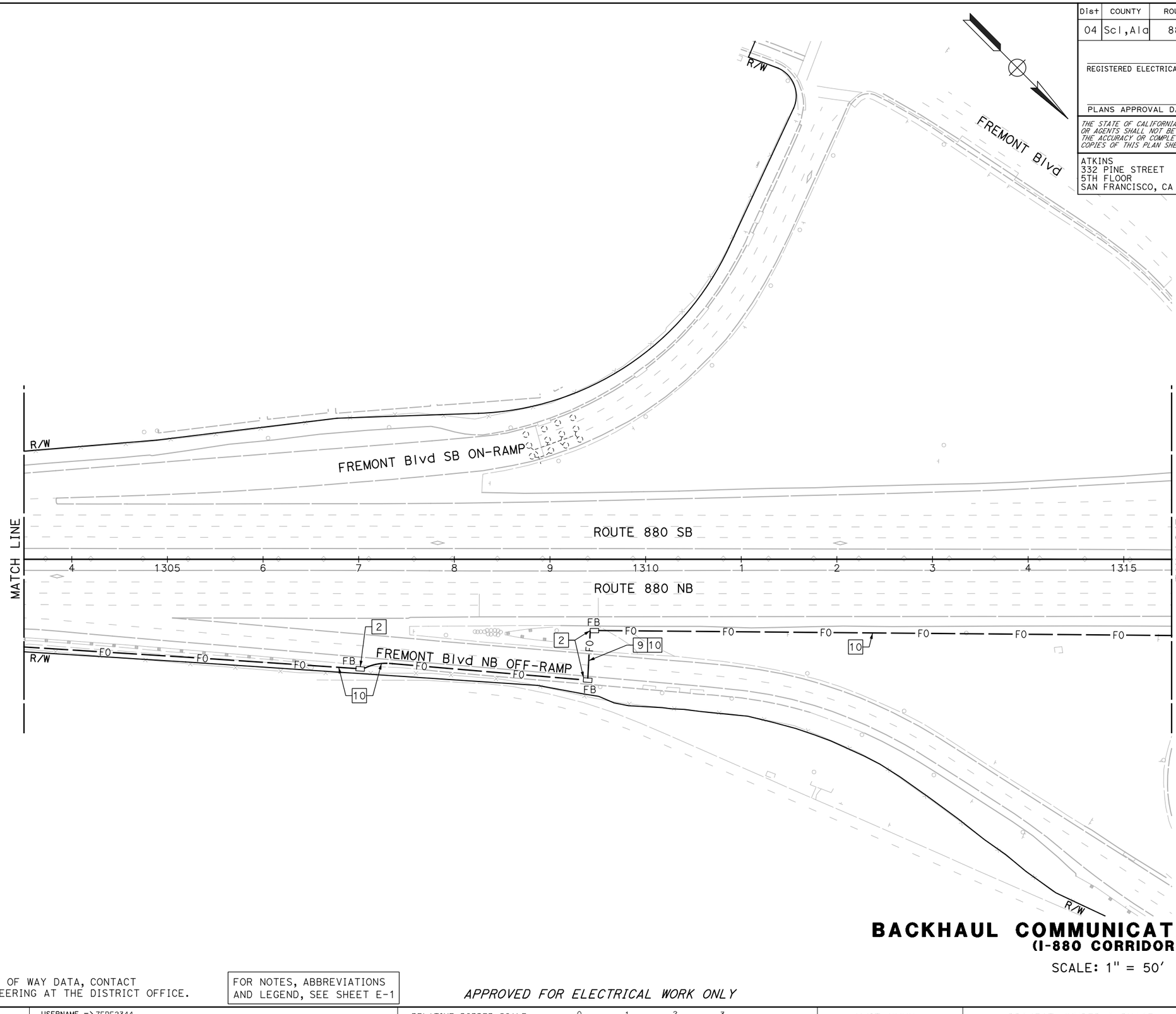
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-21

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 10:25:46 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua021.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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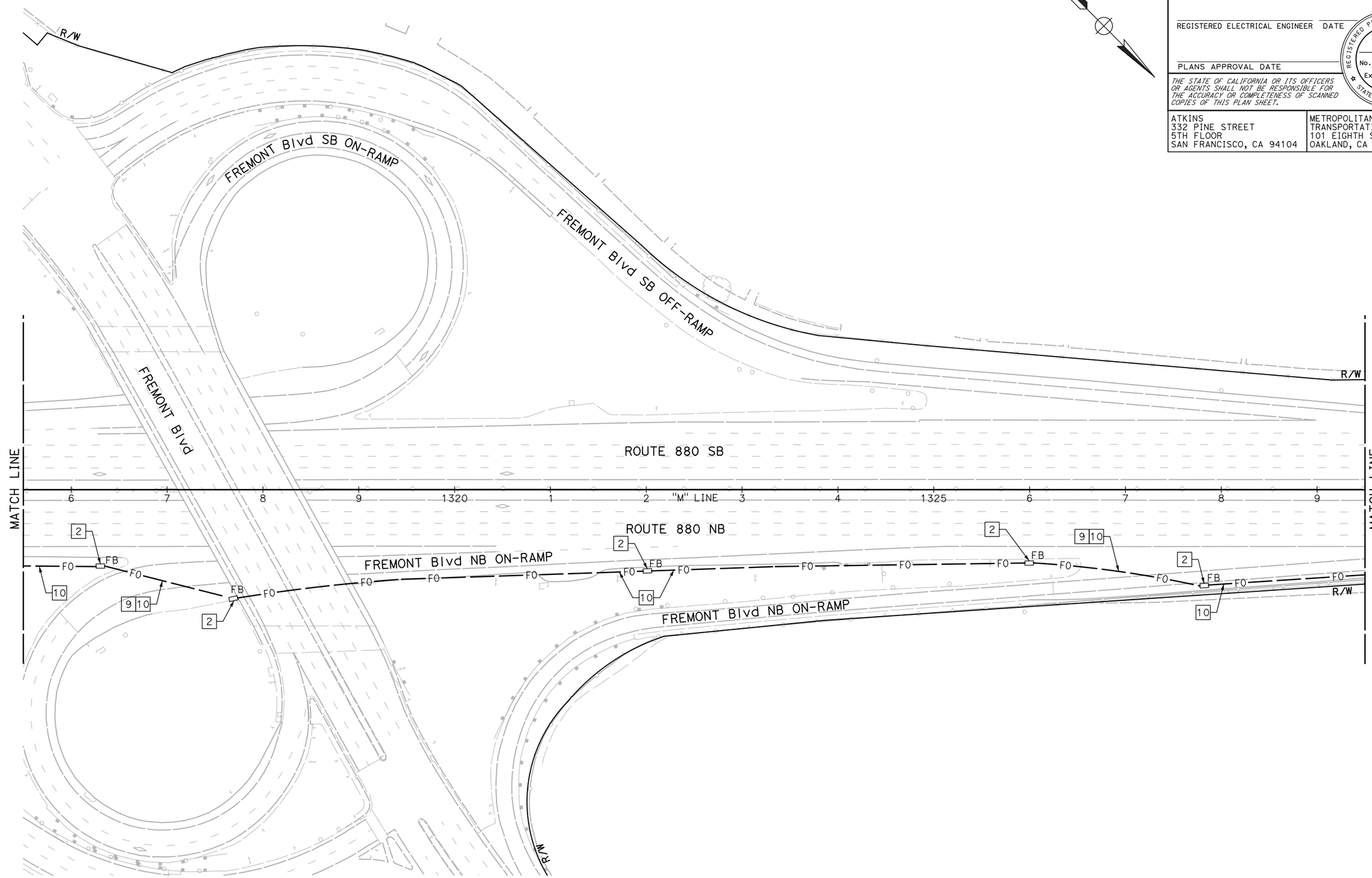
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-22

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION 00-00-00 DATE PLOTTED => 5/24/2015 TIME PLOTTED => 10:27:32 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua022.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
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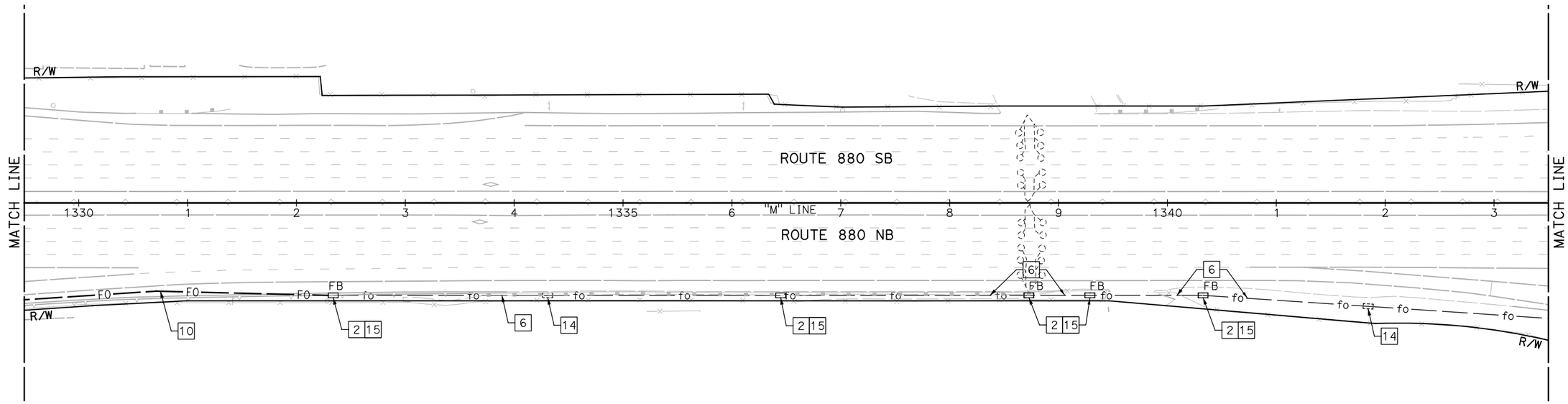
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

CALCULATED-DESIGNED BY: JOEY PASKEY

CHECKED BY: KEVIN AGUIGUI

REVISED BY

DATE REVISED

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LAST REVISION 00-00-00

DATE PLOTTED => 5/24/2015
TIME PLOTTED => 10:29:11 PM

BORDER LAST REVISED 10/4/2013

USERNAME => ZERE2344
DGN FILE => ua023.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT XXXX

PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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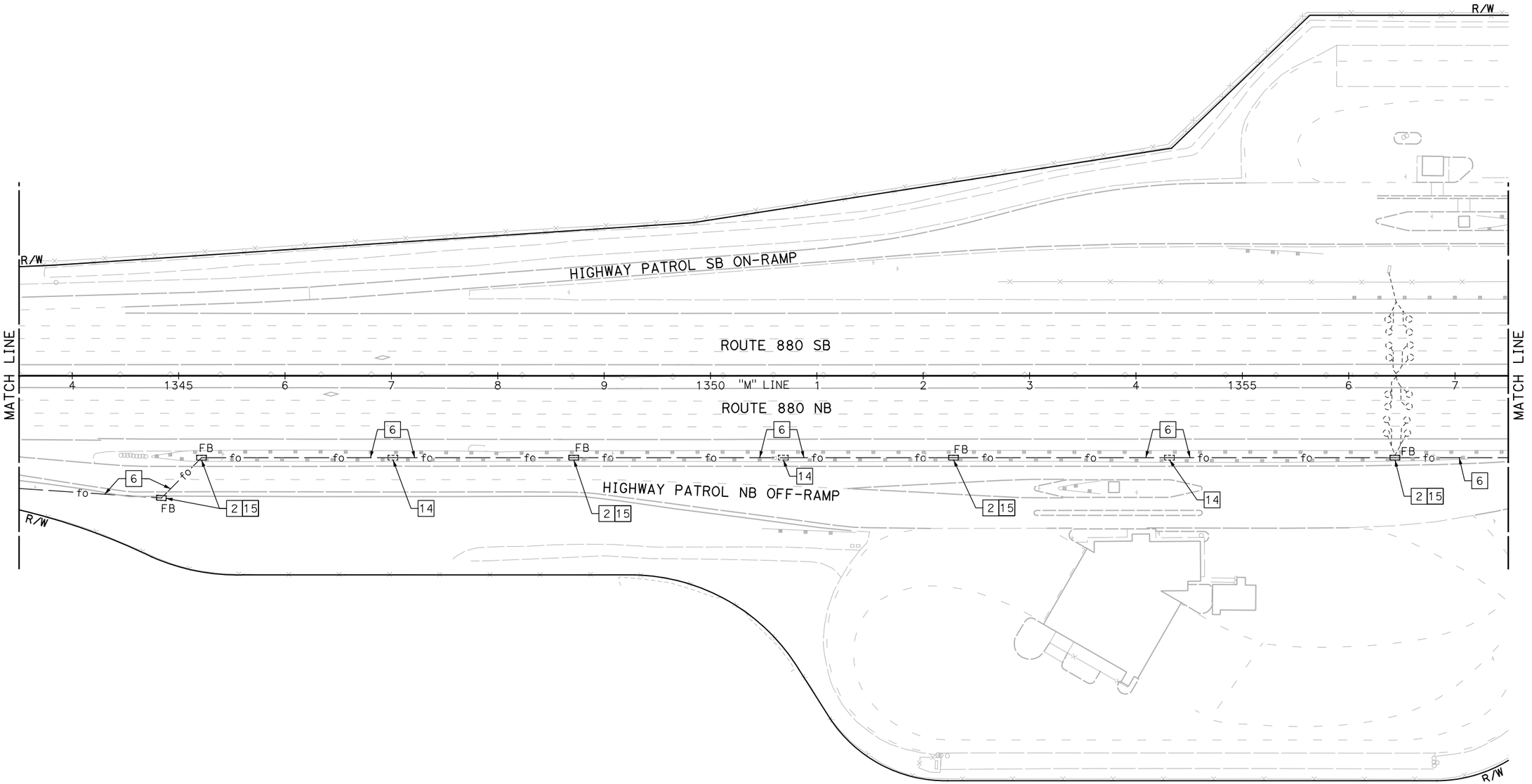
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-24

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
JOEY PASKEY	KEVIN AGUIGUI

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION 00-00-00 DATE PLOTTED => 5/24/2015 TIME PLOTTED => 10:30:51 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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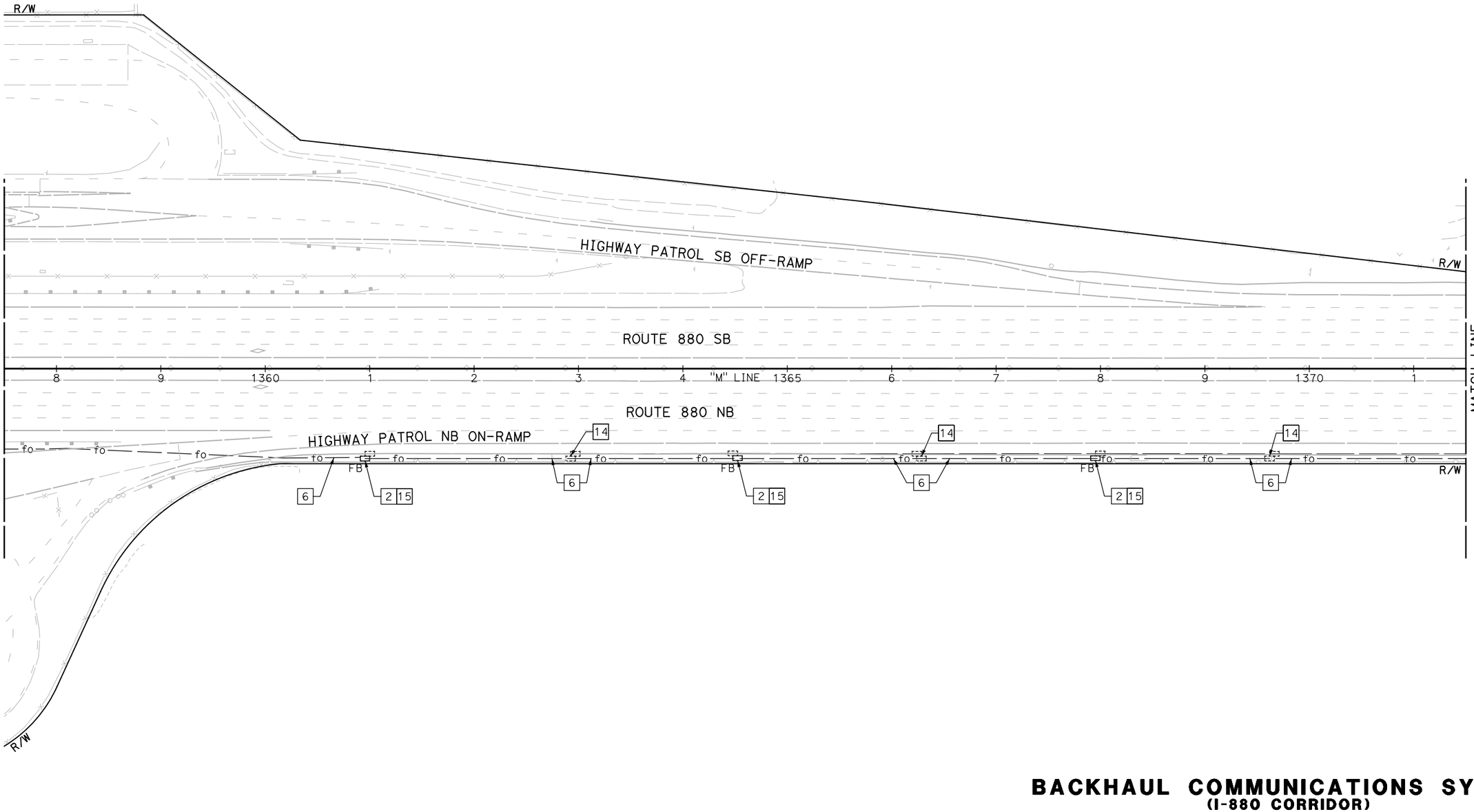
101 EIGHTH STREET
OAKLAND, CA 94607



NOTE:

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

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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-25

REVISED BY	JOEY PASKEY	CALCULATED-DESIGNED BY
DATE REVISED	KEVIN AGUIGUI	CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 10:32:29 PM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua025.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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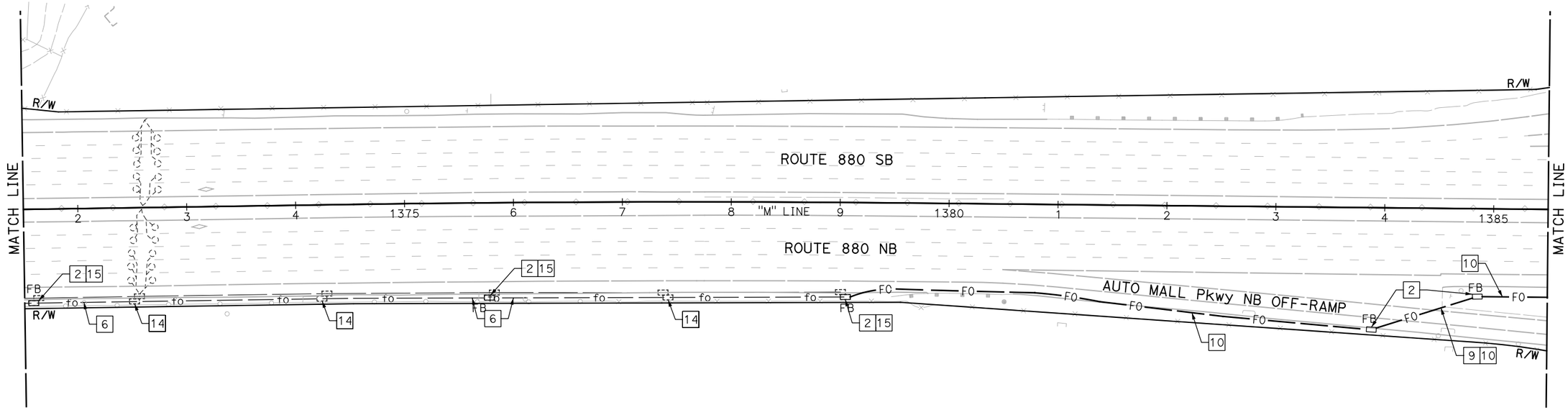
5TH FLOOR
SAN FRANCISCO, CA 94104

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 E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-26

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI
CALCULATED-DESIGNED BY	CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR	KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 10:34:12 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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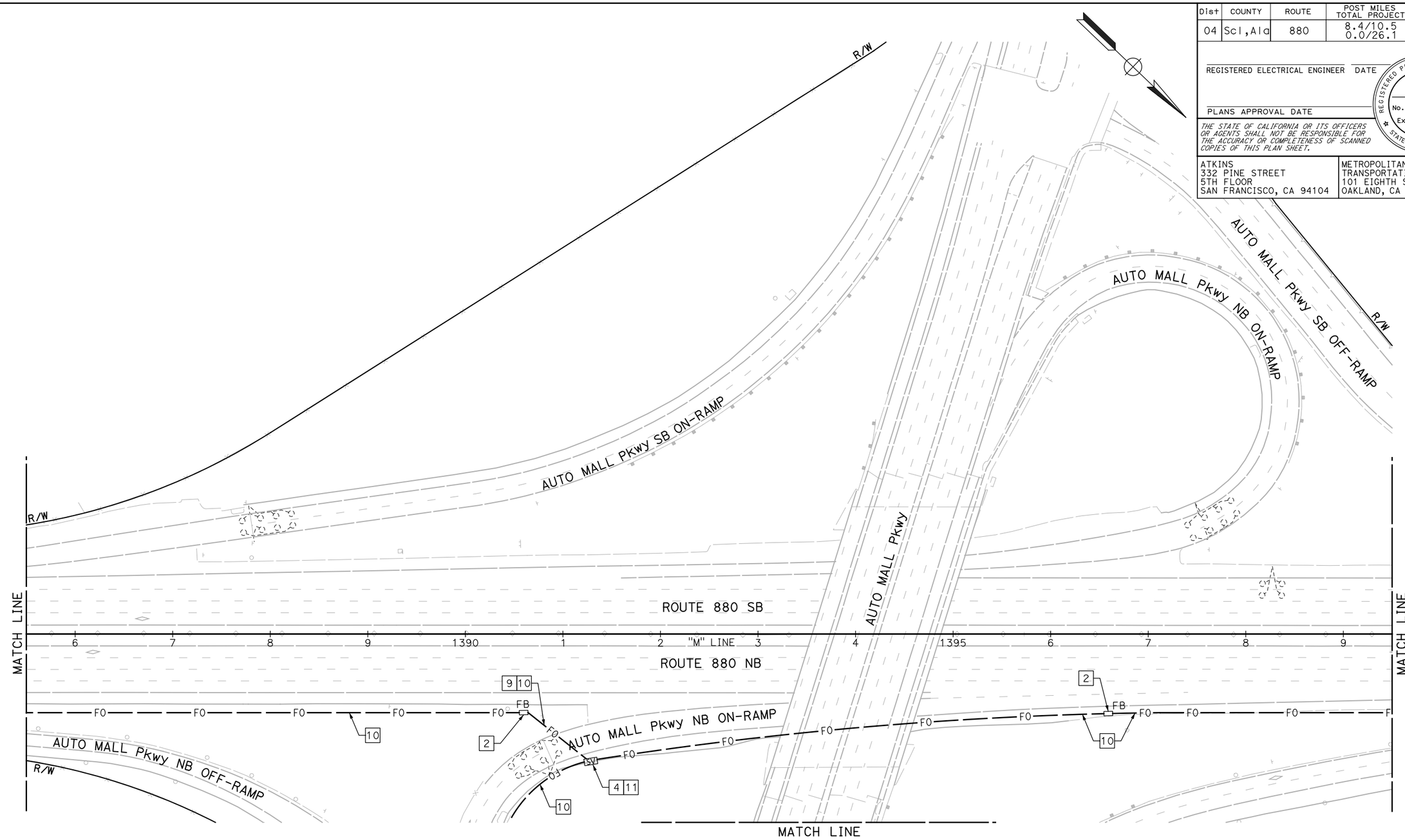
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-27

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION 00-00-00 DATE PLOTTED => 5/24/2015 TIME PLOTTED => 10:35:50 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua027.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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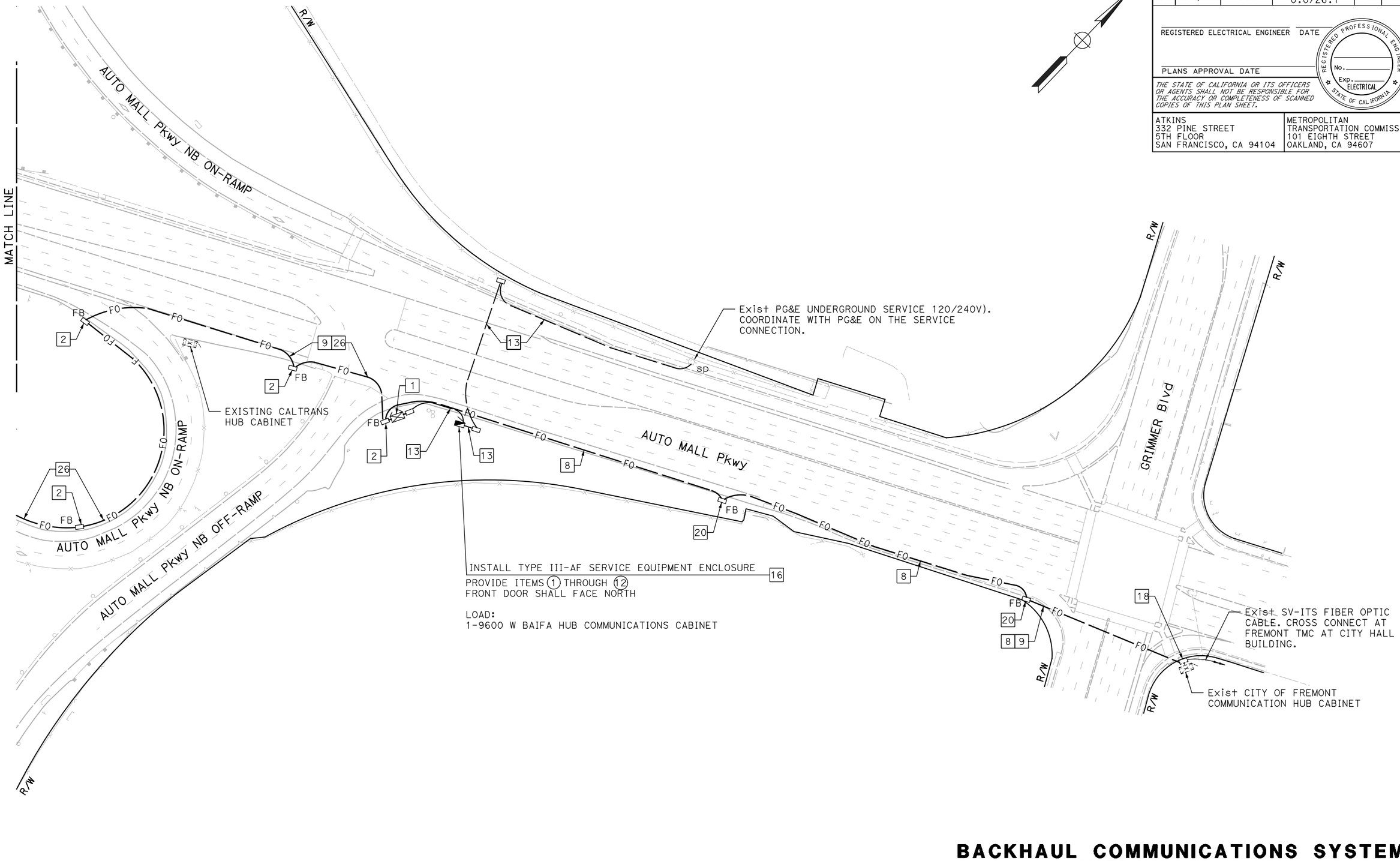
5TH FLOOR
SAN FRANCISCO, CA 94104

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 E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(AUTO MALL PKWY HUB)

SCALE: 1" = 50'

E-28

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

c:\pw_work\atknaca01\zere2344\dms01003\ua028.dgn

LAST REVISION 00-00-00 DATE PLOTTED => 5/24/2015 TIME PLOTTED => 10:37:32 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua028.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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NOTE:

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

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-29

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 10:39:12 PM

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ua029.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE
XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
ELECTRICAL
STATE OF CALIFORNIA

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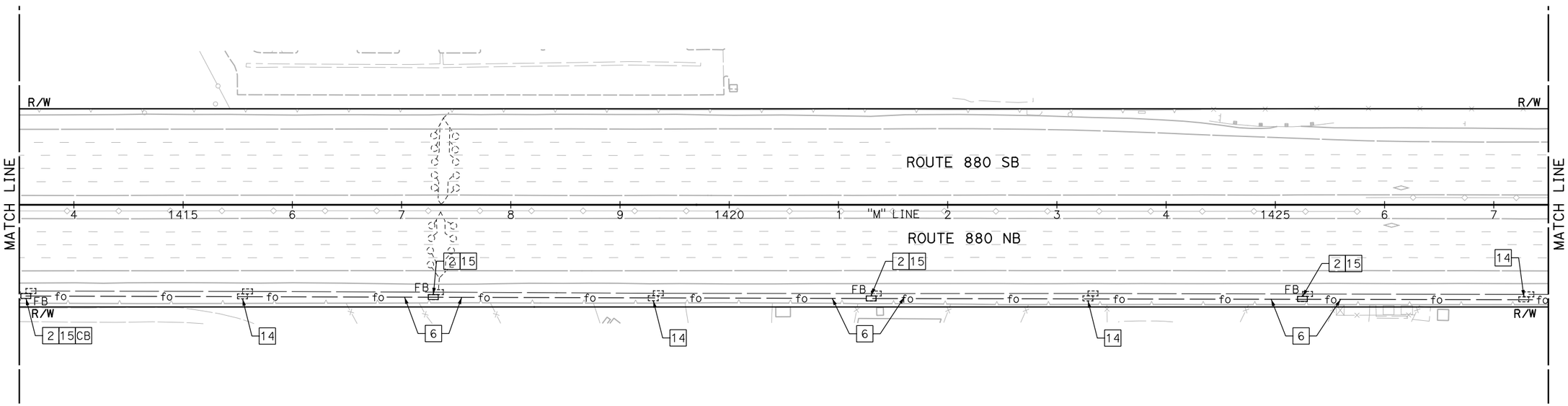
OAKLAND, CA 94607



NOTE:

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

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-30

CALCULATED-DESIGNED BY	REVISED BY
JOEY PASKEY	
CHECKED BY	DATE REVISED
KEVIN AGUIGUI	

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 10:40:55 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. — ELECTRICAL — STATE OF CALIFORNIA

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METROPOLITAN
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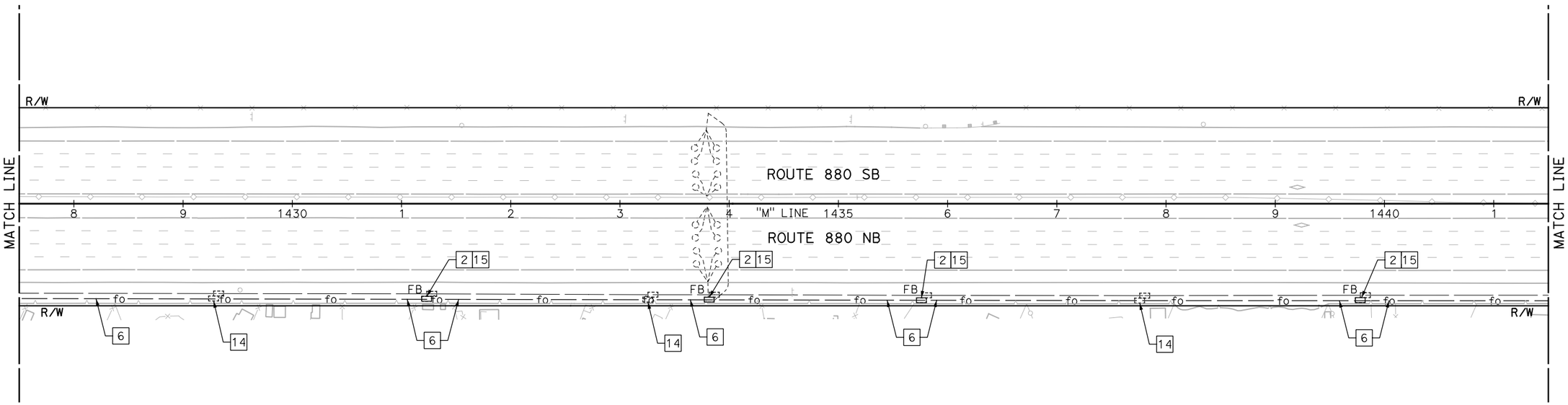
OAKLAND, CA 94607



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

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-31

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

REVISED BY | DATE REVISED

LAST REVISION: DATE PLOTTED => 5/24/2015
TIME PLOTTED => 10:42:37 PM
00-00-00

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua031.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
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STATE OF CALIFORNIA

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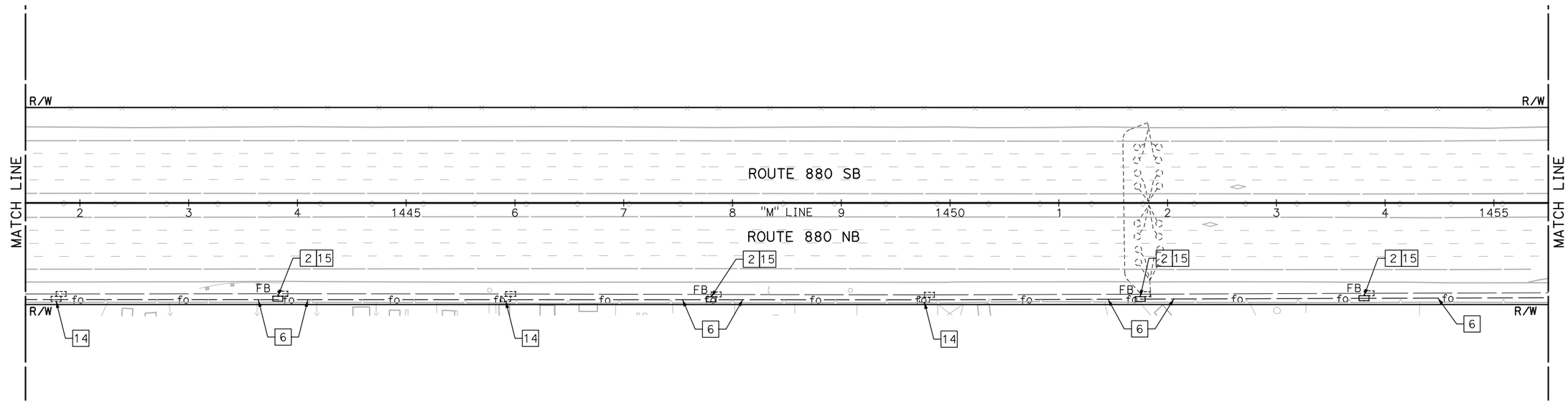

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-32

REVISED BY	DATE REVISED
JOEY PASKEY	
KEVIN AGUIGUI	
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 => 5/24/2015
TIME PLOTTED => 10:44:24 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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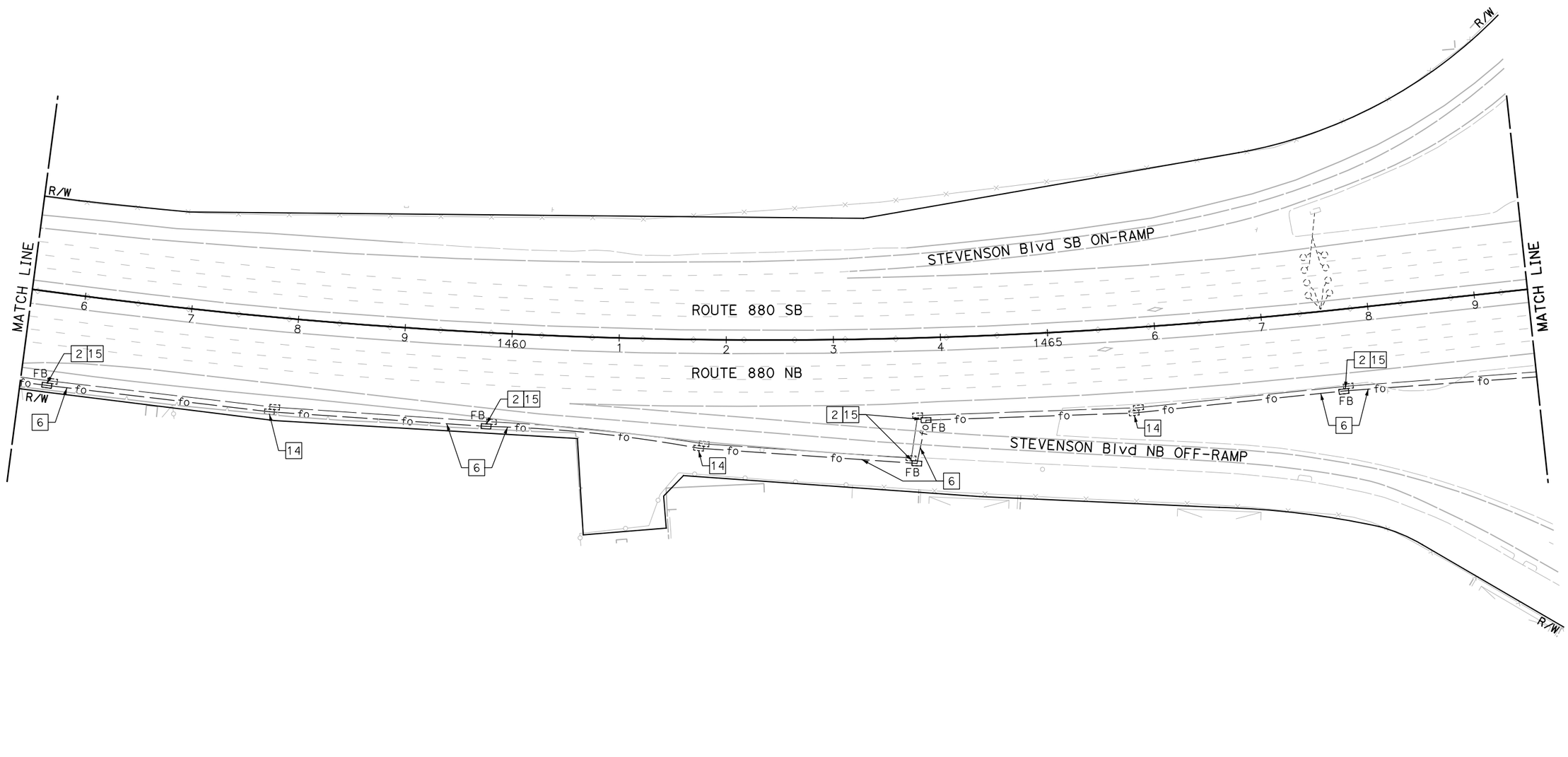
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-33

NOTE:

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

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REVISED BY	DATE REVISED
JOEY PASKEY	
KEVIN AGUIGUI	

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 => 5/24/2015 TIME PLOTTED => 10:46:12 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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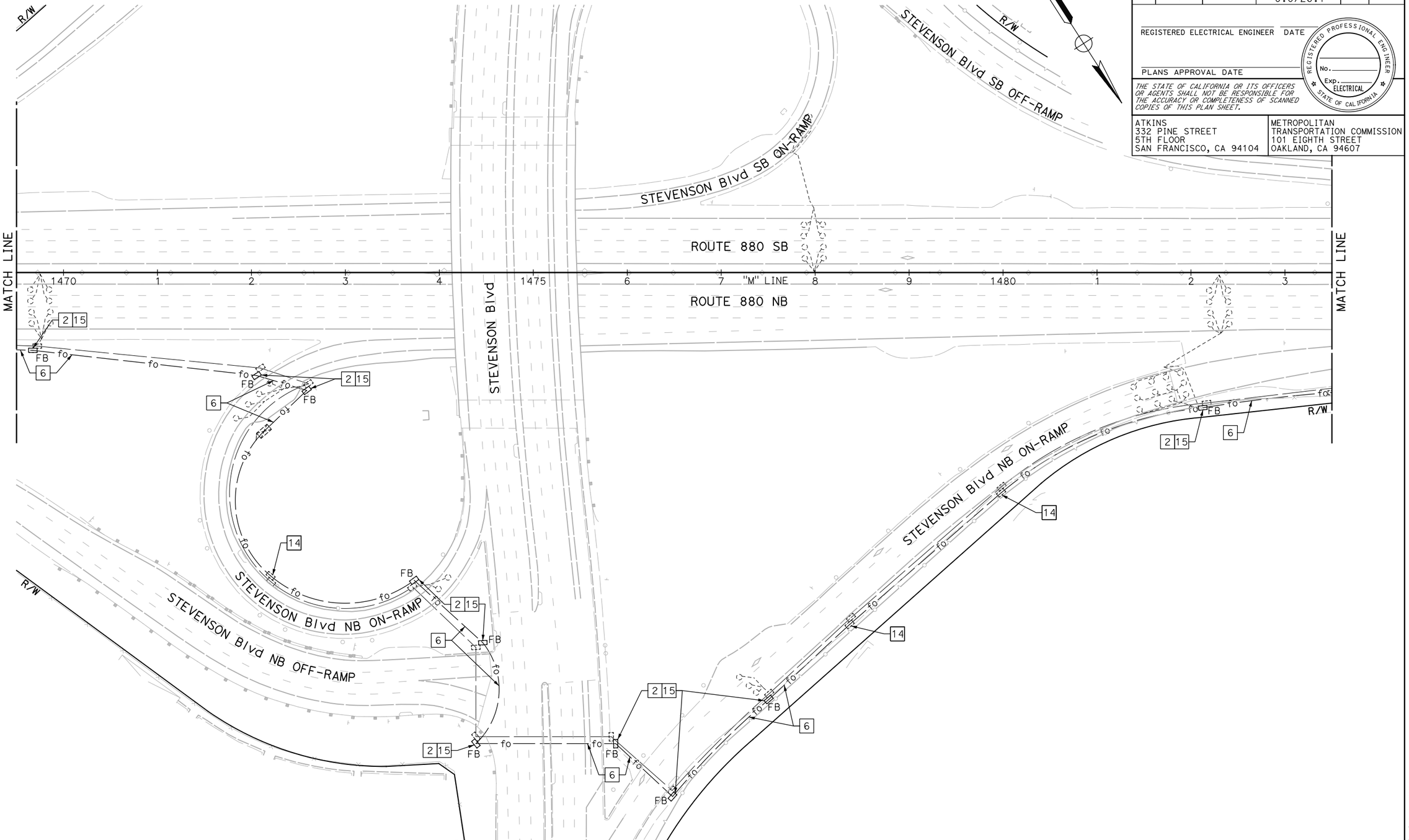
OAKLAND, CA 94607



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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-34

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI
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 => 5/24/2015
TIME PLOTTED => 10:47:57 PM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua034.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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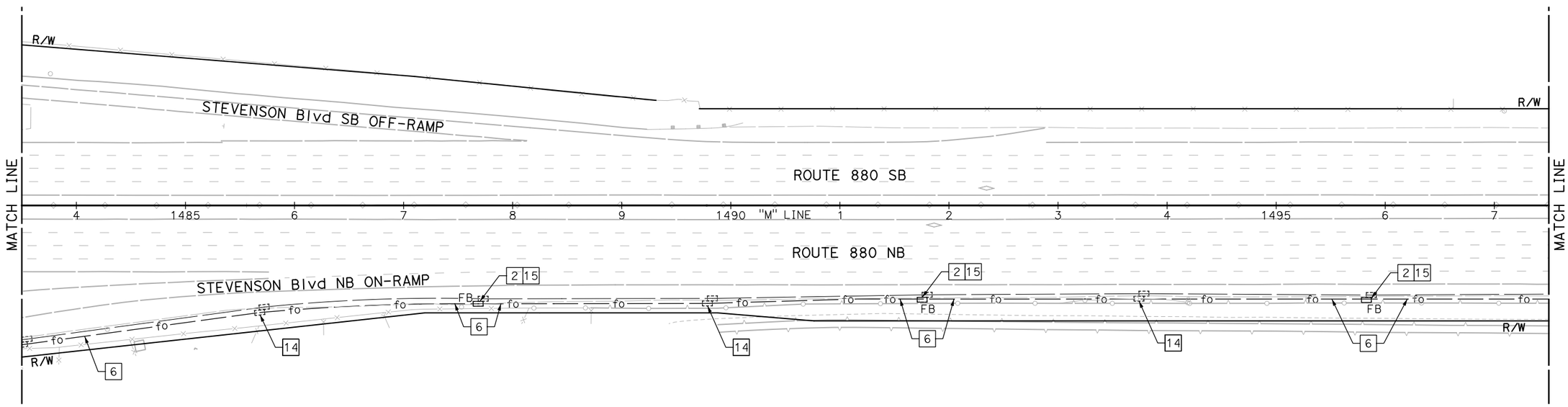
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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

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E-35

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
JOEY PASKEY	KEVIN AGUIGUI

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION 00-00-00 DATE PLOTTED => 5/24/2015 TIME PLOTTED => 10:49:37 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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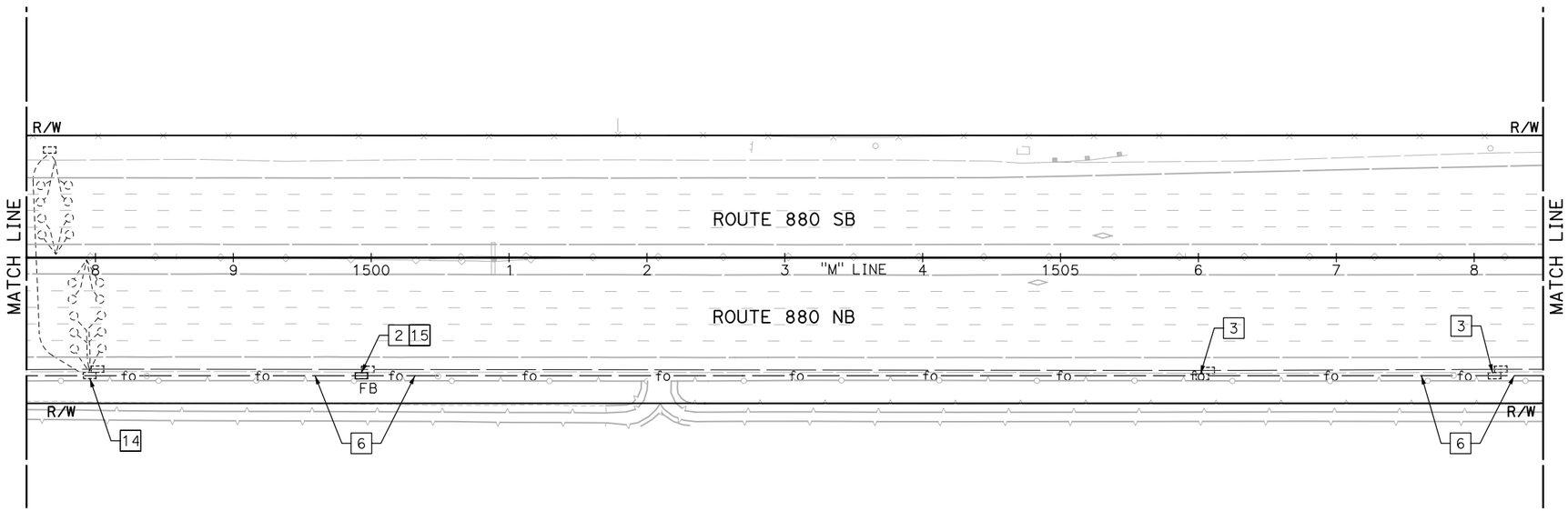
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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

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E-36

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

CALCULATED-DESIGNED BY: JOEY PASKEY

CHECKED BY: KEVIN AGUIGUI

REVISED BY

DATE REVISED

c:\pw_work\atknaca01\zere2344\dms01003\ua036.dgn

LAST REVISION 00-00-00

DATE PLOTTED => 5/24/2015
TIME PLOTTED => 10:51:19 PM

BORDER LAST REVISED 10/4/2013

USERNAME => ZERE2344
DGN FILE => ua036.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT XXXX

PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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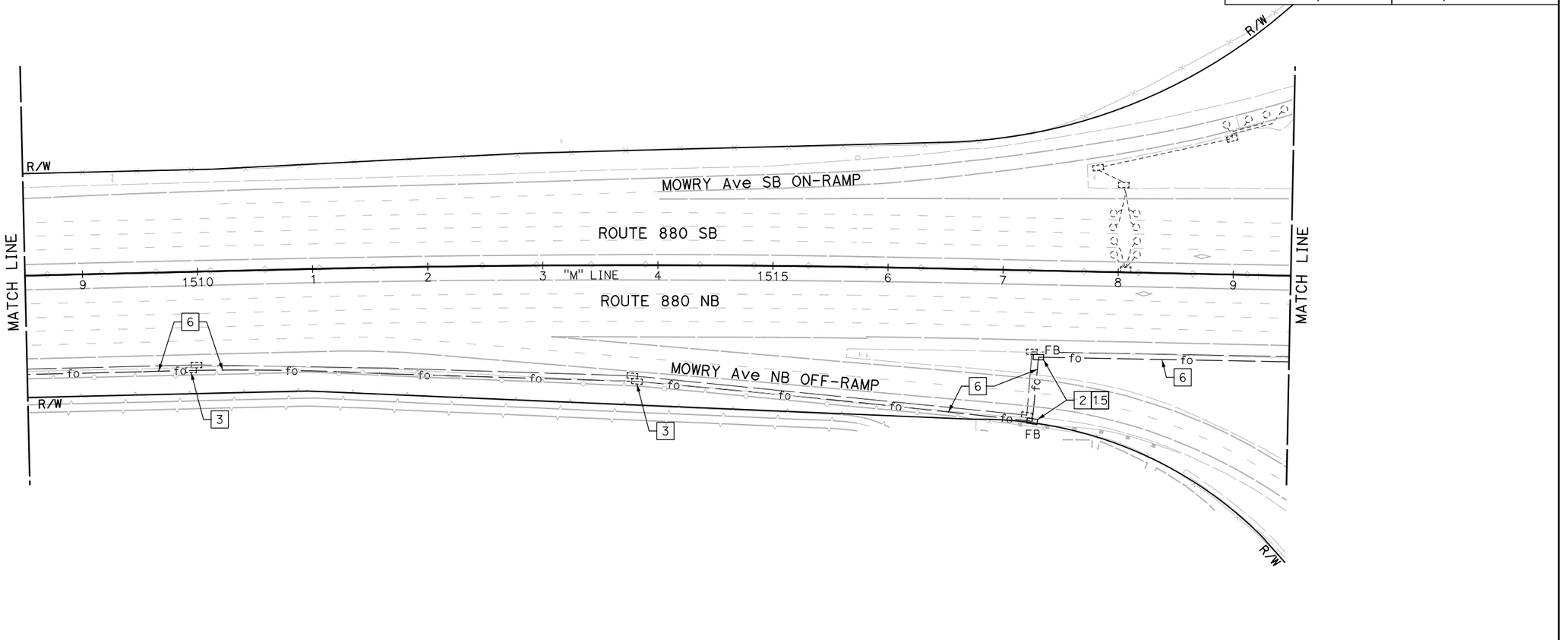
101 EIGHTH STREET
OAKLAND, CA 94607



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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-37

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI

CALCULATED-DESIGNED BY

CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 10:53:00 PM

BORDER LAST REVISED 10/4/2013

USERNAME => ZERE2344
DGN FILE => ua037.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT XXXX

PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. ELECTRICAL — STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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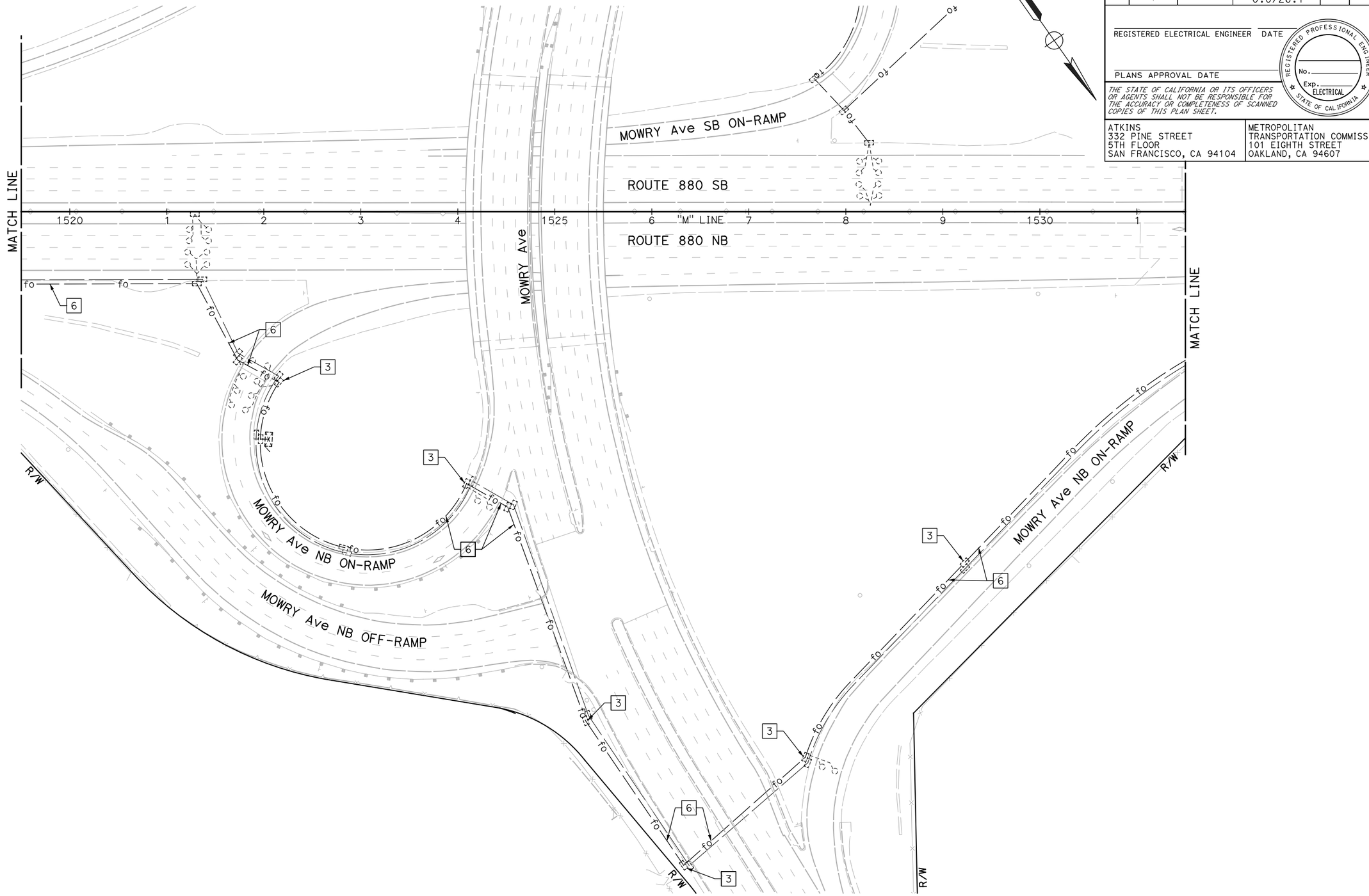
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



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

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-38

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 5/24/2015
00-00-00 TIME PLOTTED => 10:54:39 PM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua038.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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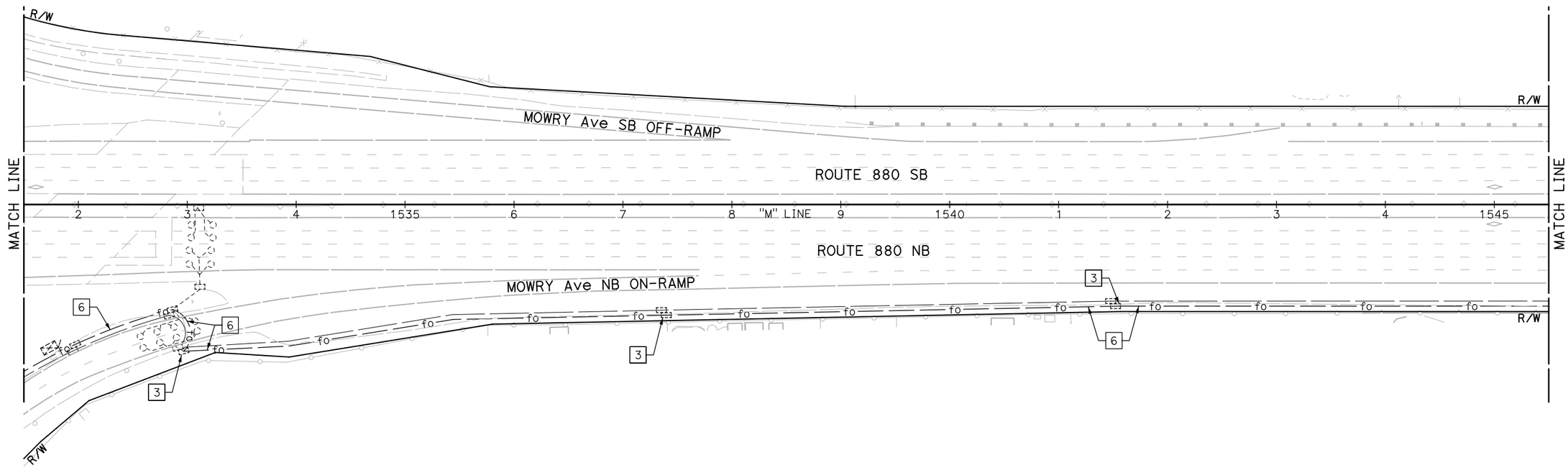
5TH FLOOR
SAN FRANCISCO, CA 94104

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 E-1

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-39

CALCULATED-DESIGNED BY	JOEY PASKEY
CHECKED BY	KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR	KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans
REVISED BY	
DATE REVISED	

LAST REVISION DATE PLOTTED => 5/24/2015
00-00-00 TIME PLOTTED => 10:56:21 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
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STATE OF CALIFORNIA

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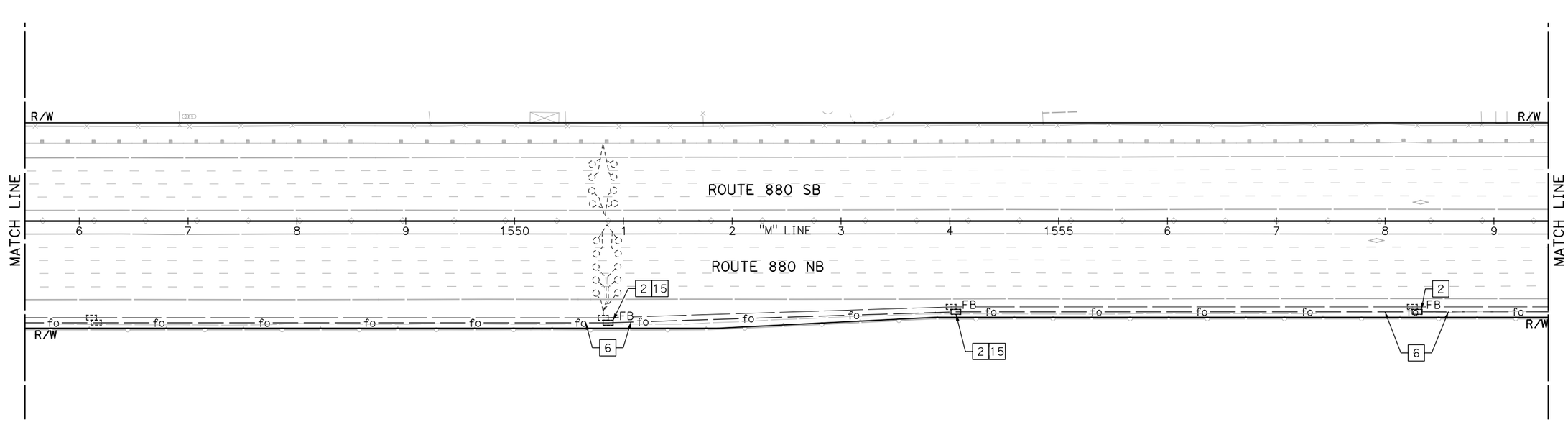
OAKLAND, CA 94607



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

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-40

CALCULATED-DESIGNED BY	JOEY PASKEY	REVISED BY
CHECKED BY	KEVIN AGUIGUI	DATE REVISED

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua040.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

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PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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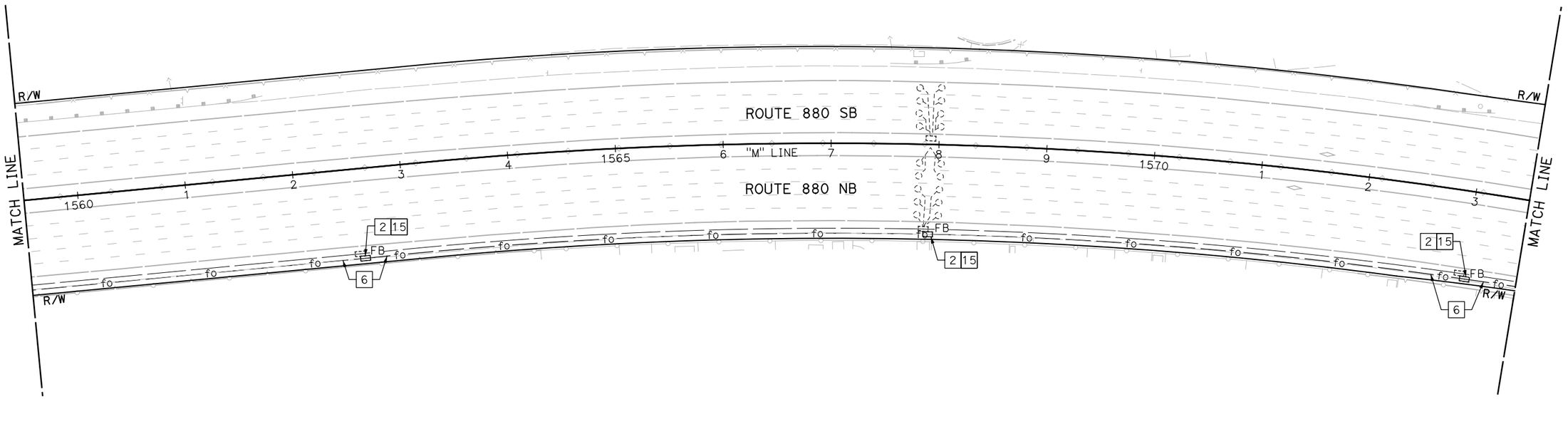
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-41

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

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LAST REVISION 00-00-00 DATE PLOTTED => 5/24/2015 TIME PLOTTED => 10:59:41 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
ELECTRICAL
STATE OF CALIFORNIA

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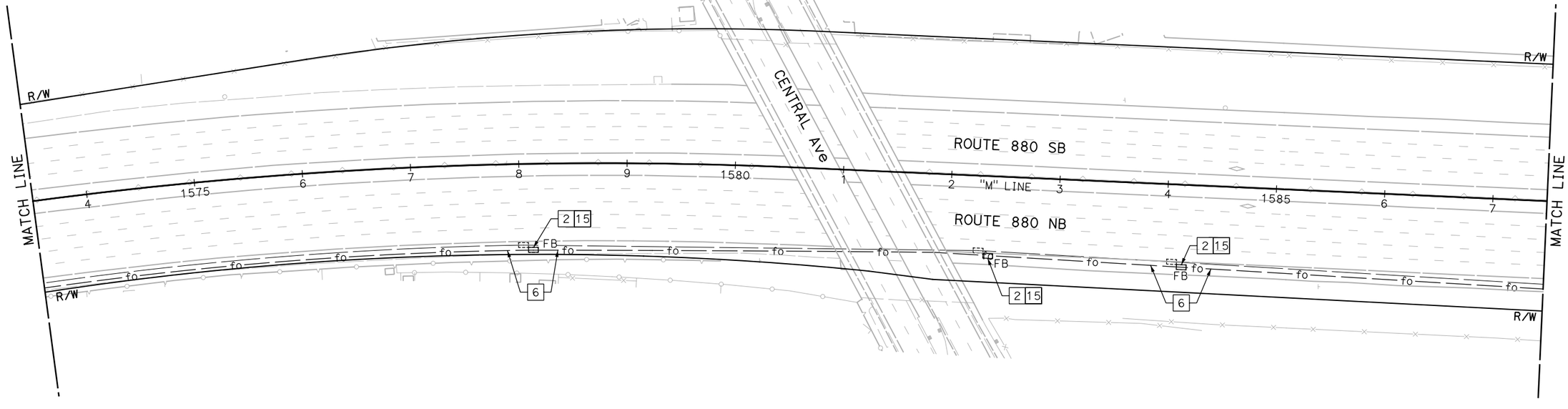
OAKLAND, CA 94607



NOTE:

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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-42

CALCULATED-DESIGNED BY
CHECKED BY
JOEY PASKEY
KEVIN AGUIGUI
REVISED BY
DATE REVISED
CONSULTANT FUNCTIONAL SUPERVISOR
KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 5/24/2015
00-00-00 TIME PLOTTED => 11:01:24 PM

c:\pw_work\atknaca01\zere2344\dms01003\ua042.dgn

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua042.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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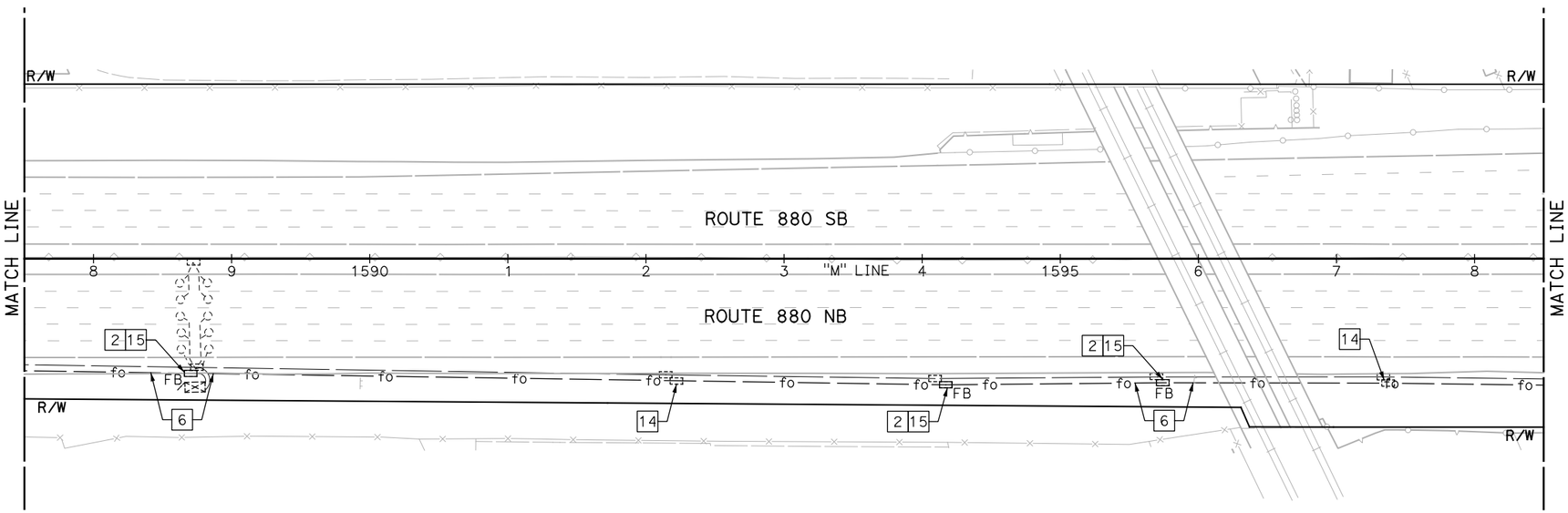
5TH FLOOR
SAN FRANCISCO, CA 94104

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 E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-43

REVISED BY	DATE REVISED
JOEY PASKEY	
KEVIN AGUIGUI	
CALCULATED-DESIGNED BY	
CHECKED BY	
CONSULTANT FUNCTIONAL SUPERVISOR	
KAI CHAN	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	
Caltrans	

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 11:03:08 PM

c:\pw_work\atkncaa01\zere2344\dms01003\ua043.dgn

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua043.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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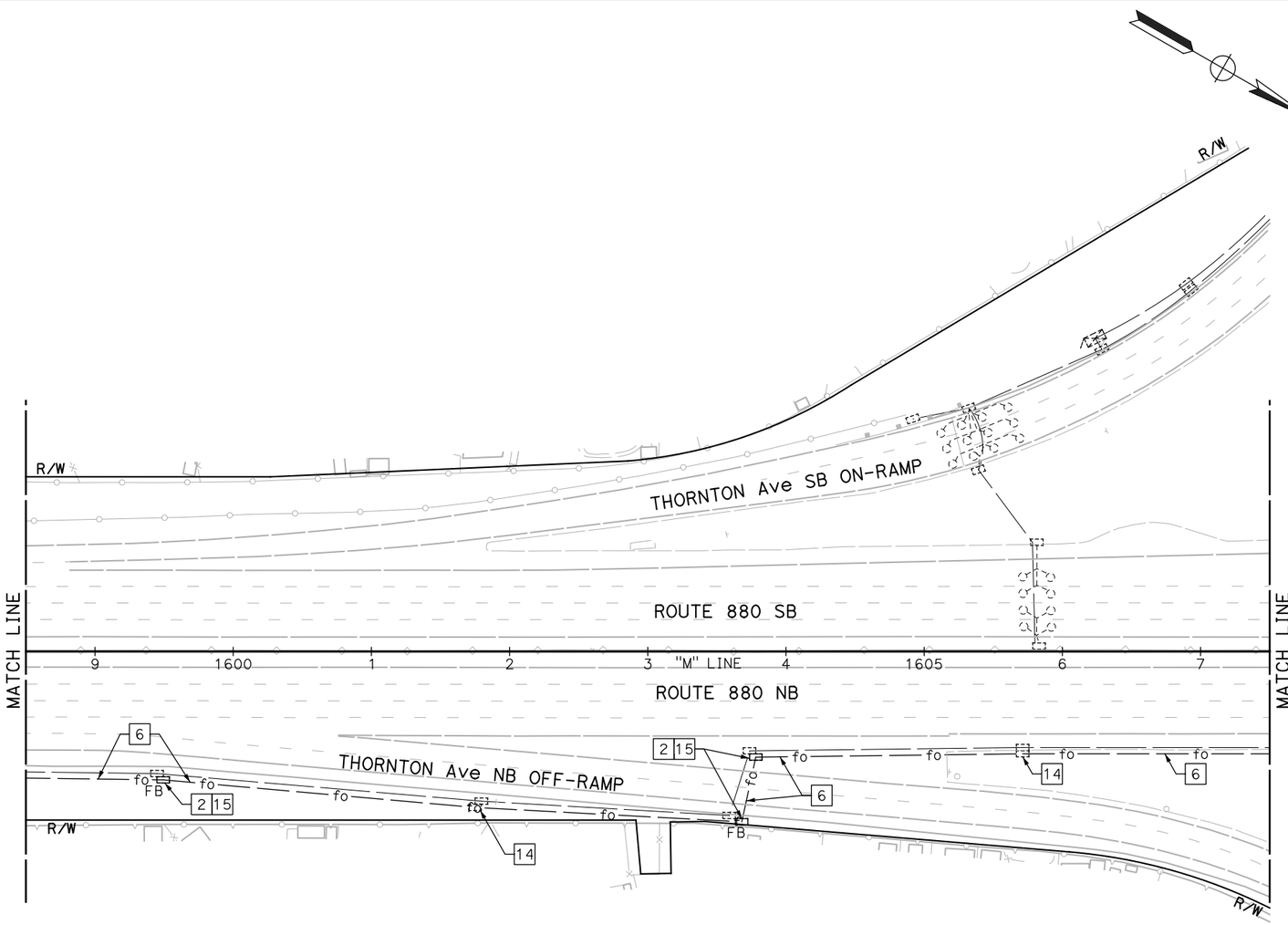
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-44

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

CALCULATED-DESIGNED BY: JOEY PASKEY

CHECKED BY: KEVIN AGUIGUI

REVISED BY

DATE REVISED

c:\pw_work\atknaca01\zere2344\dms01003\ua044.dgn

LAST REVISION 00-00-00

DATE PLOTTED => 5/24/2015
TIME PLOTTED => 11:04:50 PM

BORDER LAST REVISED 10/4/2013

USERNAME => ZERE2344
DGN FILE => ua044.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT XXXX

PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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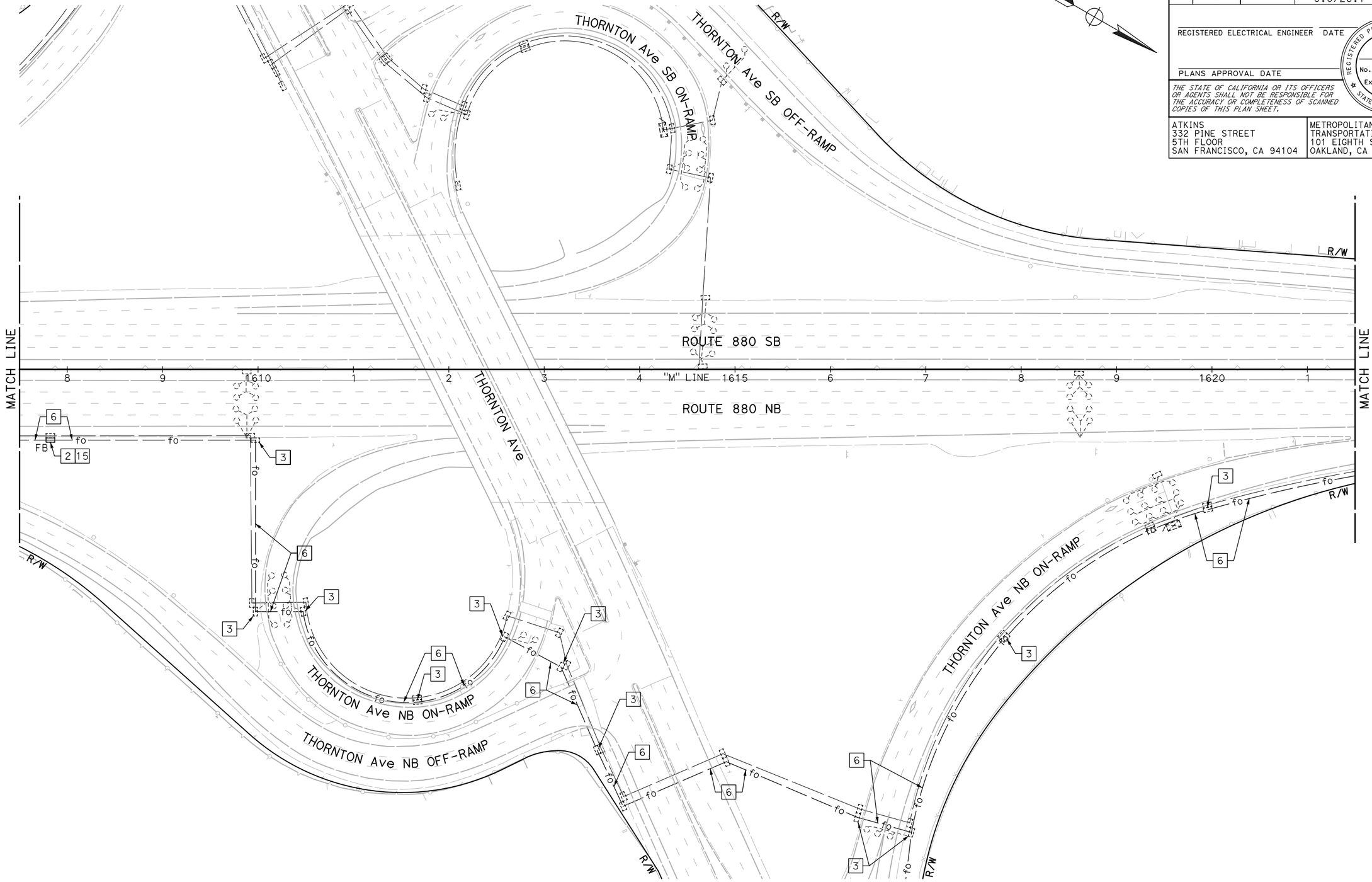
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-45

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 11:06:29 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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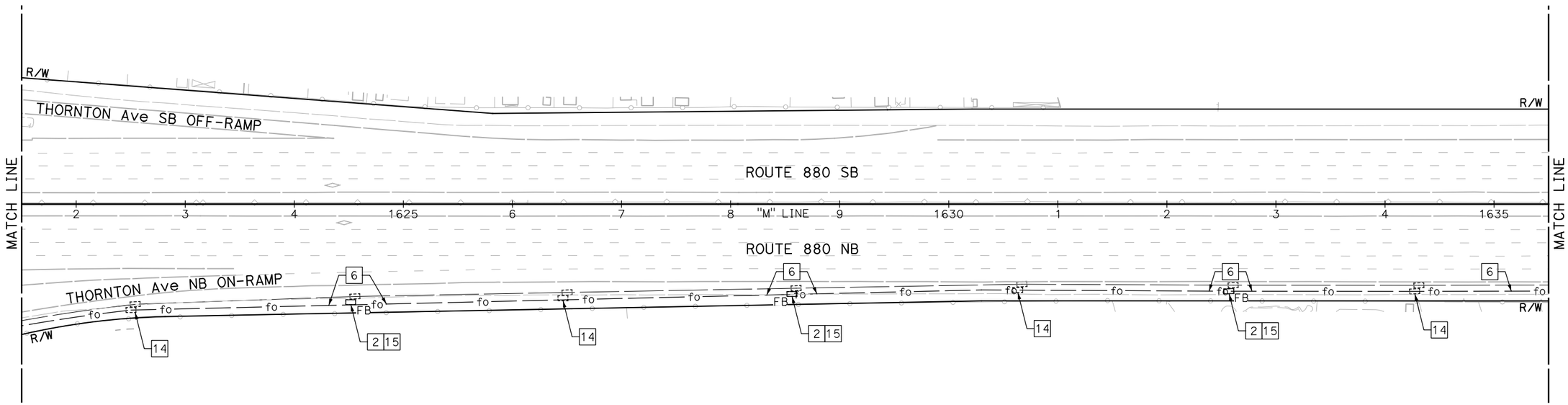
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



NOTE:

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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-46

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION DATE PLOTTED => 5/24/2015
00-00-00 TIME PLOTTED => 11:08:11 PM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua046.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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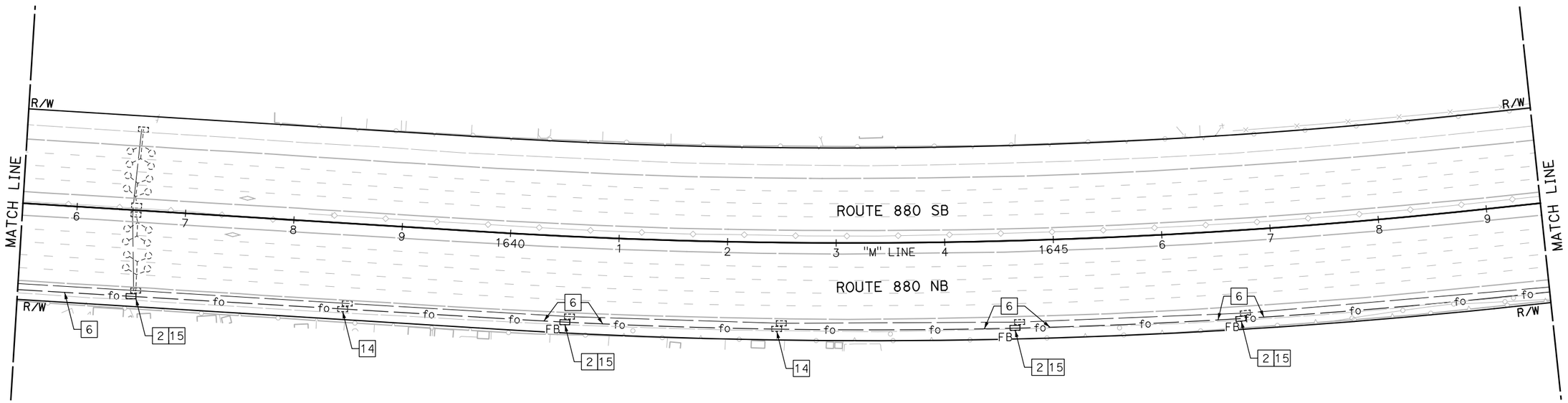
101 EIGHTH STREET
OAKLAND, CA 94607



NOTE:

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

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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-47

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

CALCULATED-DESIGNED BY: JOEY PASKEY

CHECKED BY: KEVIN AGUIGUI

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LAST REVISION: DATE PLOTTED => 5/24/2015
00-00-00 TIME PLOTTED => 11:10:01 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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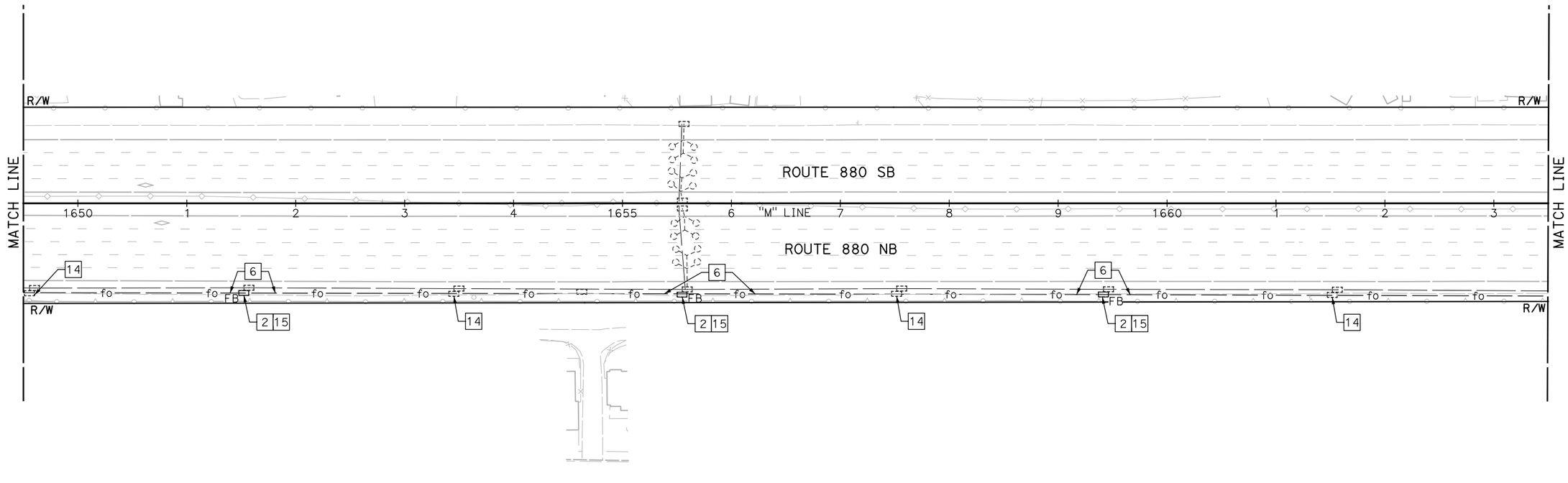
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
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
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-48

CALCULATED-DESIGNED BY
CHECKED BY
JOEY PASKEY
KEVIN AGUIGUI
REVISED BY
DATE REVISED
CONSULTANT FUNCTIONAL SUPERVISOR
KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION DATE PLOTTED => 5/24/2015
00-00-00 TIME PLOTTED => 11:11:47 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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SAN FRANCISCO, CA 94104

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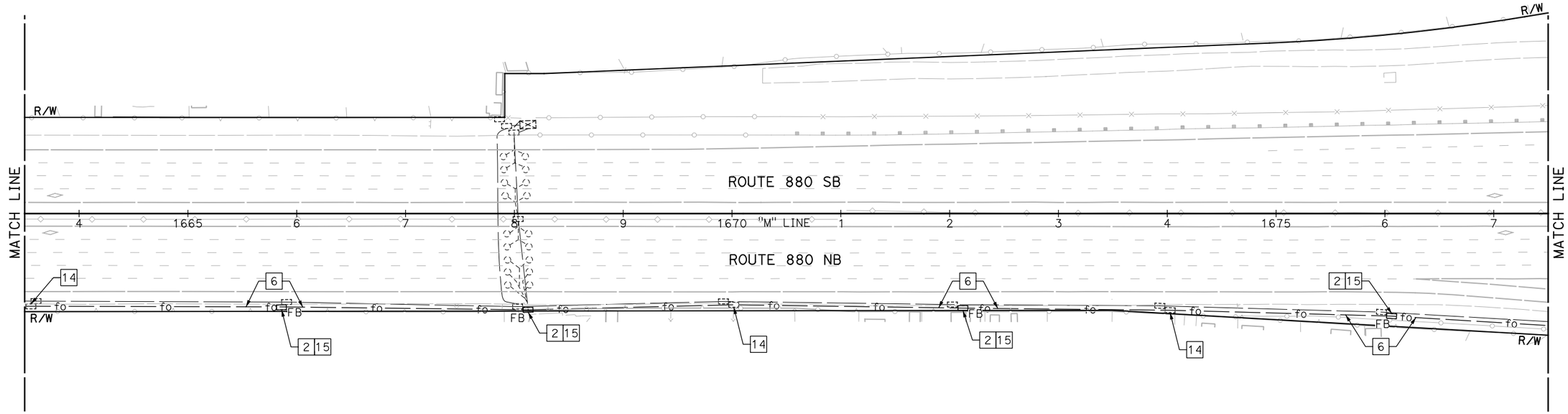
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



NOTE:

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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-49

CALCULATED-DESIGNED BY
CHECKED BY
JOEY PASKEY
KEVIN AGUIGUI
REVISED BY
DATE REVISED
CONSULTANT FUNCTIONAL SUPERVISOR
KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 5/24/2015
00-00-00 TIME PLOTTED => 11:13:38 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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SAN FRANCISCO, CA 94104

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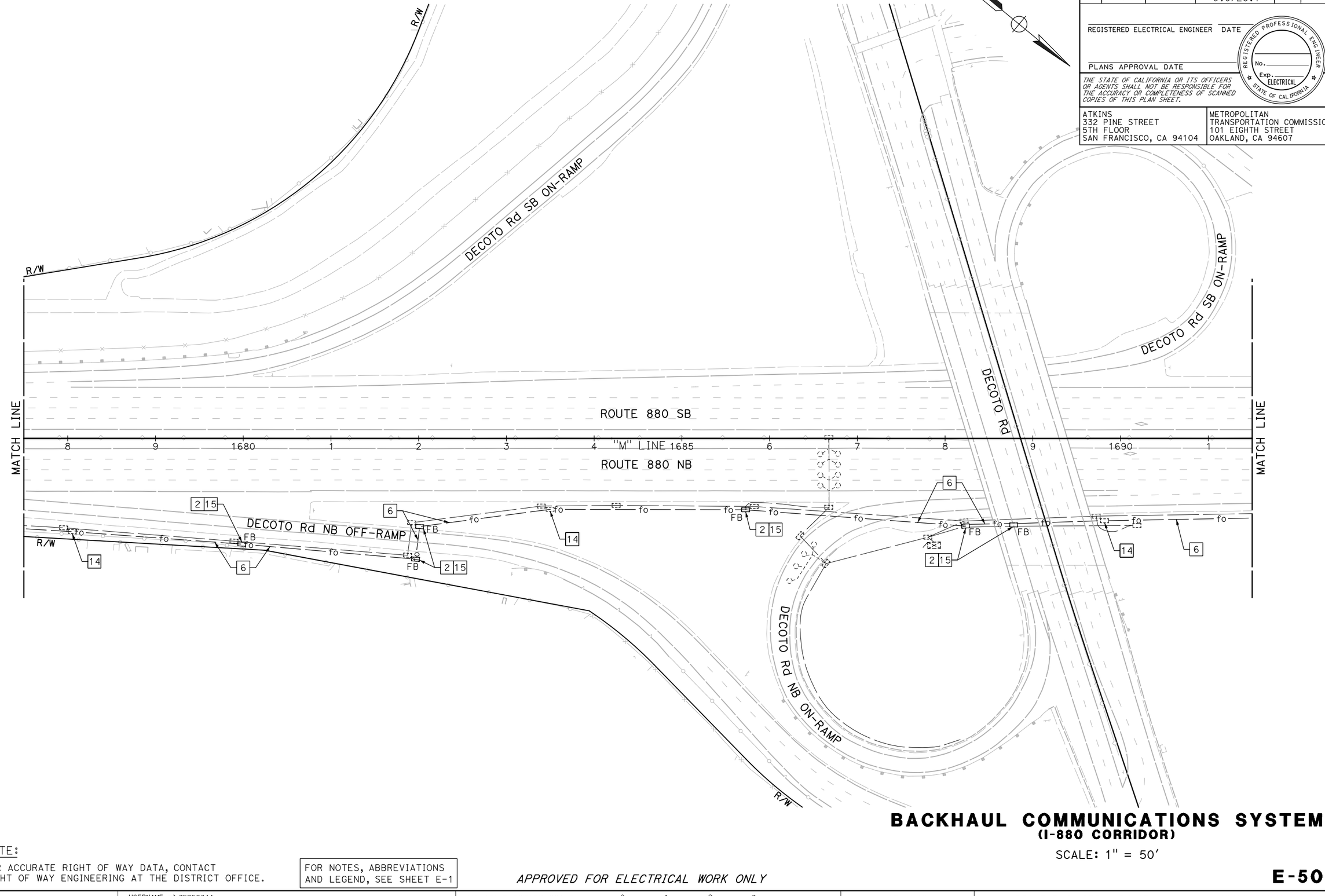
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-50

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 11:15:28 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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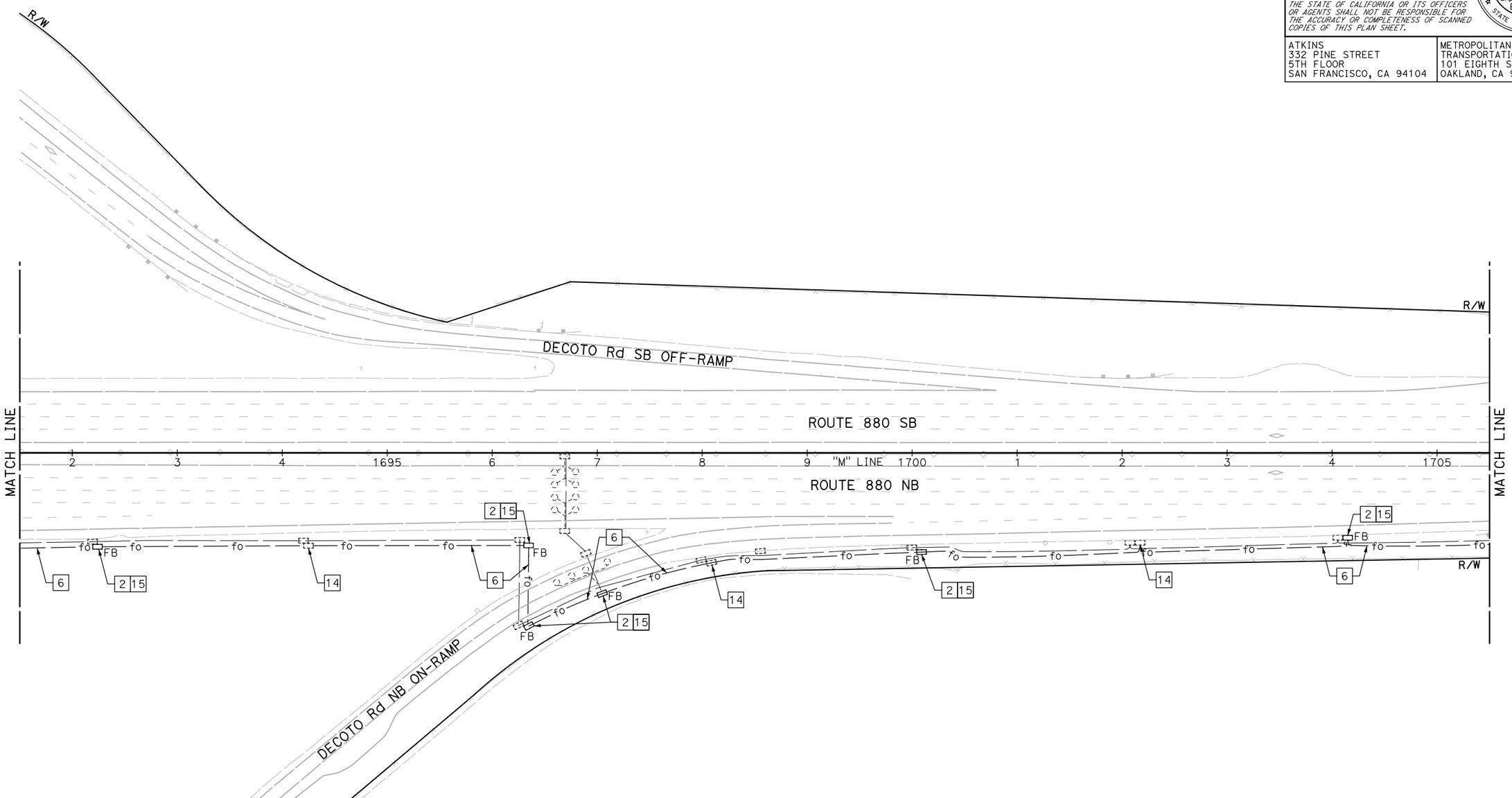
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-51

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 11:17:15 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua051.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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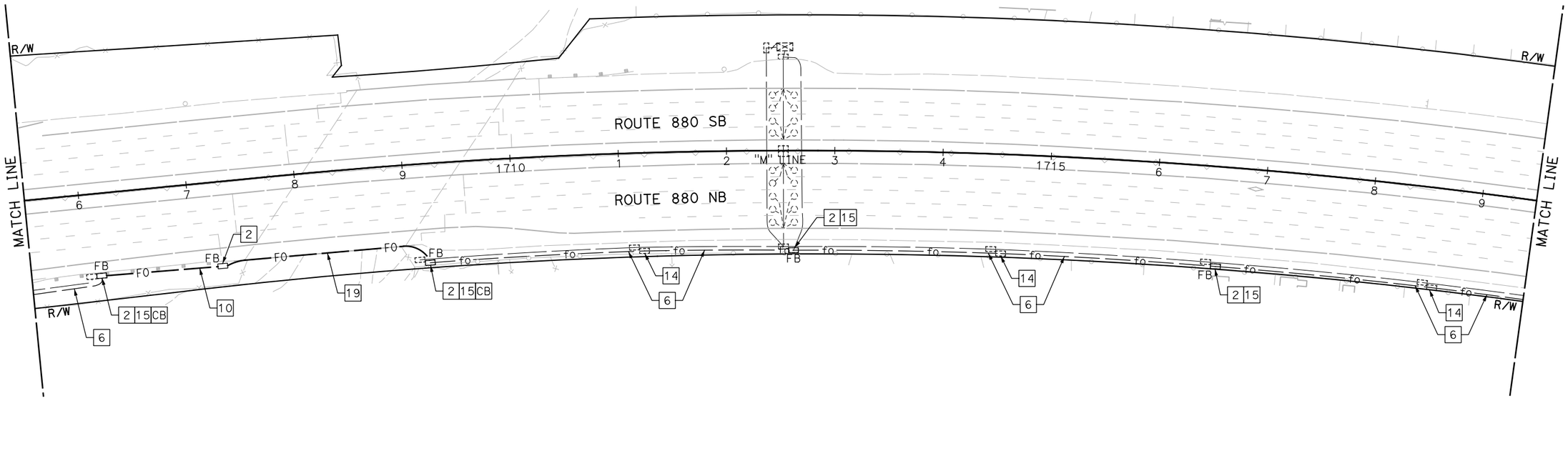
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



NOTE:

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

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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-52

CALCULATED-DESIGNED BY	JOEY PASKEY	REVISED BY
CHECKED BY	KEVIN AGUIGUI	DATE REVISED
CONSULTANT FUNCTIONAL SUPERVISOR	KAI CHAN	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans	

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LAST REVISION => DATE PLOTTED => 5/24/2015
00-00-00 TIME PLOTTED => 11:19:04 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua052.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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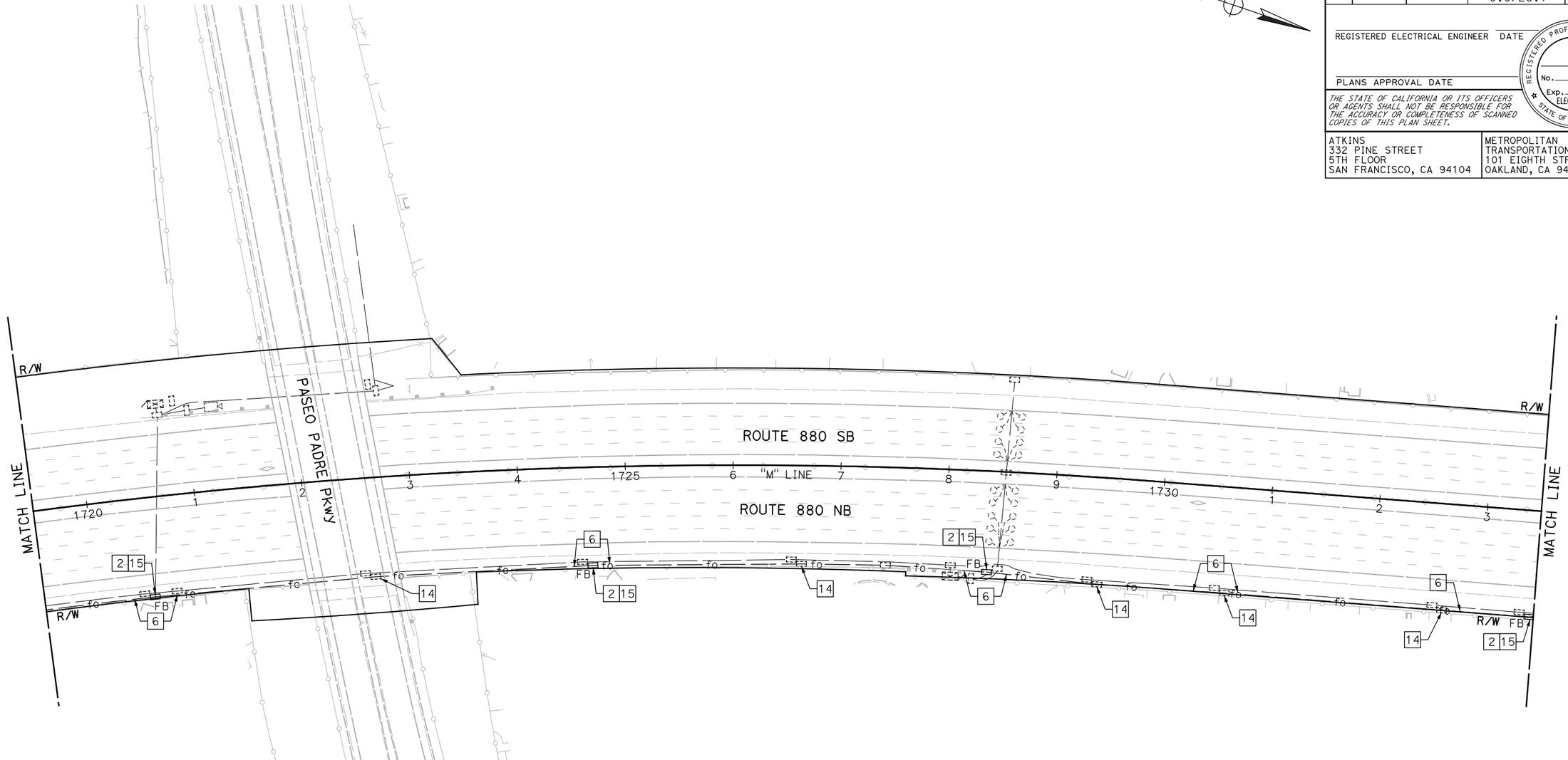
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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 E-1

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-53

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI
CALCULATED-DESIGNED BY	CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR	KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 11:20:51 PM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua053.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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METROPOLITAN
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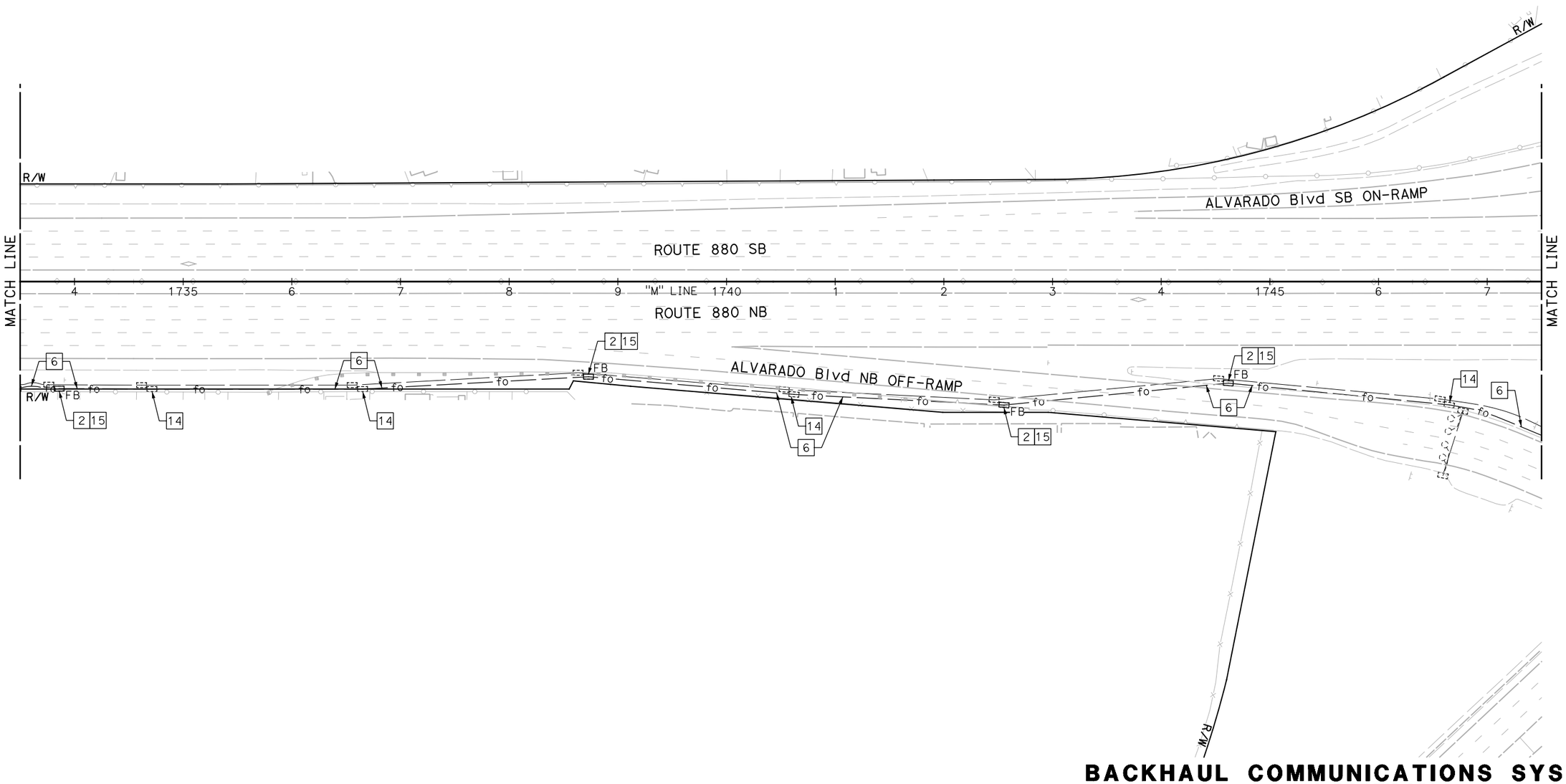

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

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-54

REVISED BY | DATE REVISED

JOEY PASKEY | KEVIN AGUIGUI

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR | KAI CHAN

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 11:22:46 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua054.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
ELECTRICAL
STATE OF CALIFORNIA

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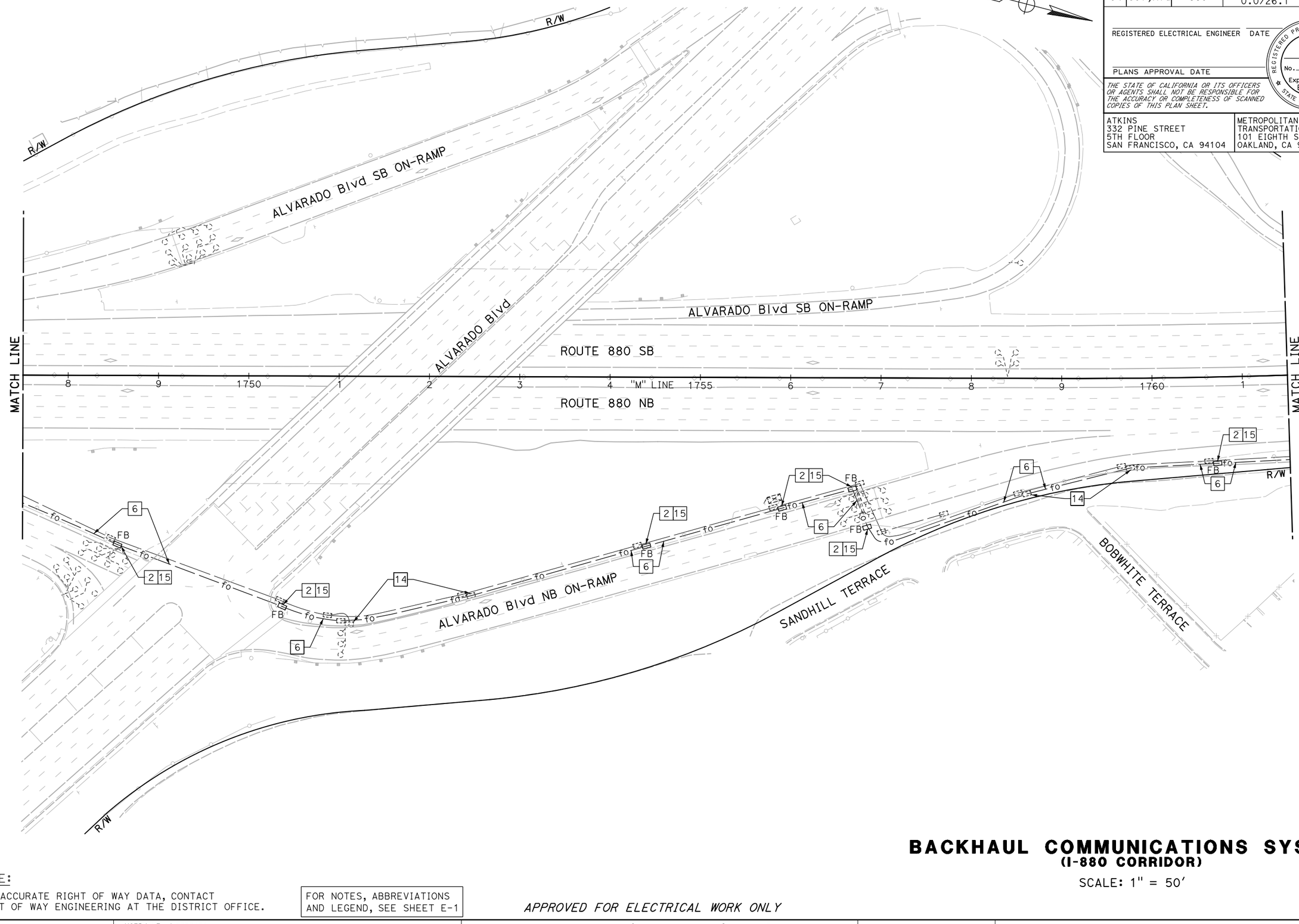

NOTE:

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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-55

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
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LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 11:24:33 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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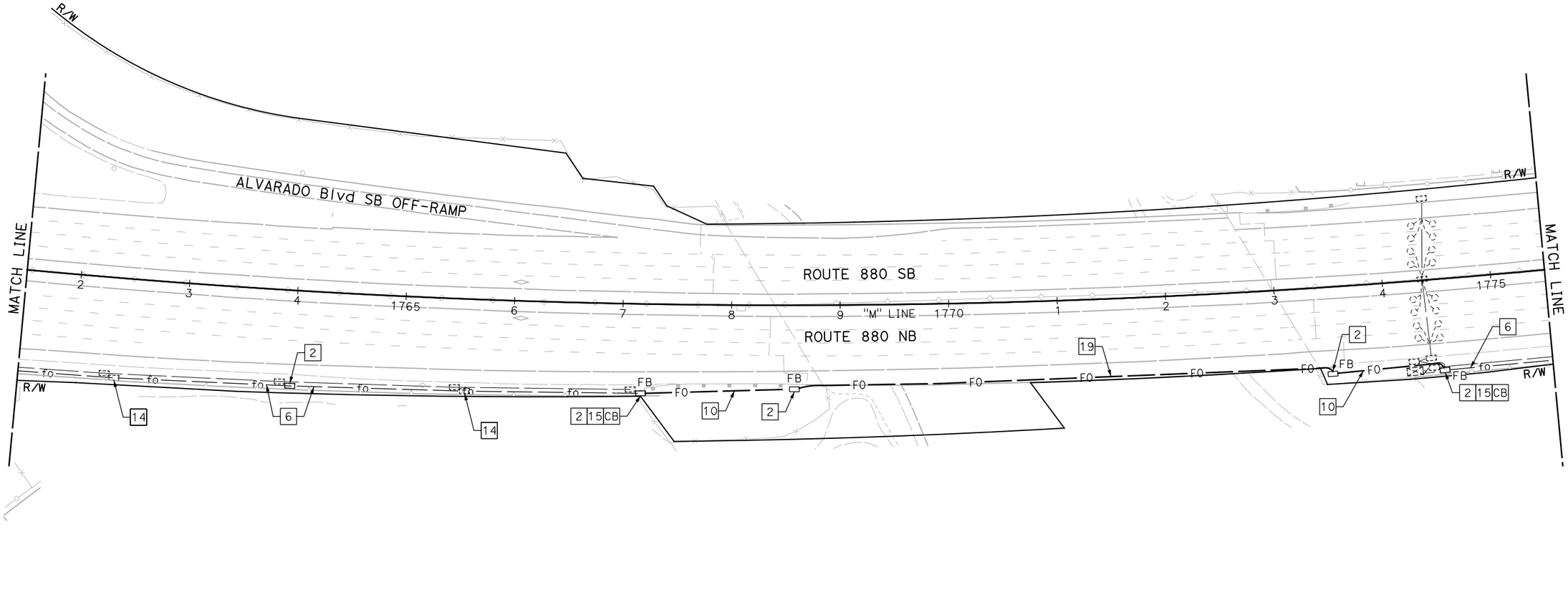
OAKLAND, CA 94607



NOTE:

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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-56

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DATE REVISED

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KEVIN AGUIGUI

CONSULTANT FUNCTIONAL SUPERVISOR
KAI CHAN

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LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 11:26:27 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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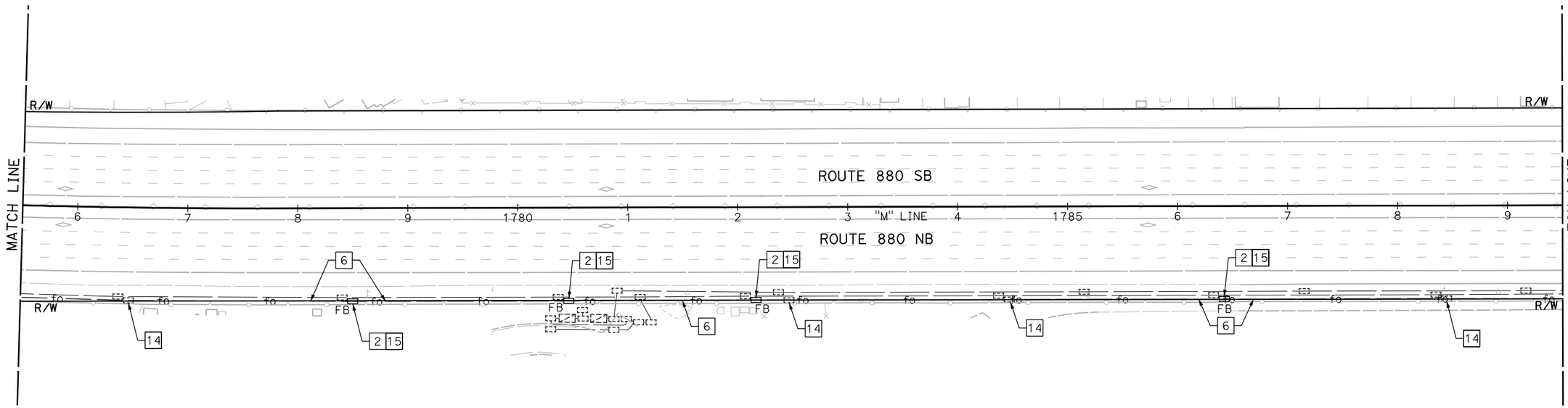

NOTE:

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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-57

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI		

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua057.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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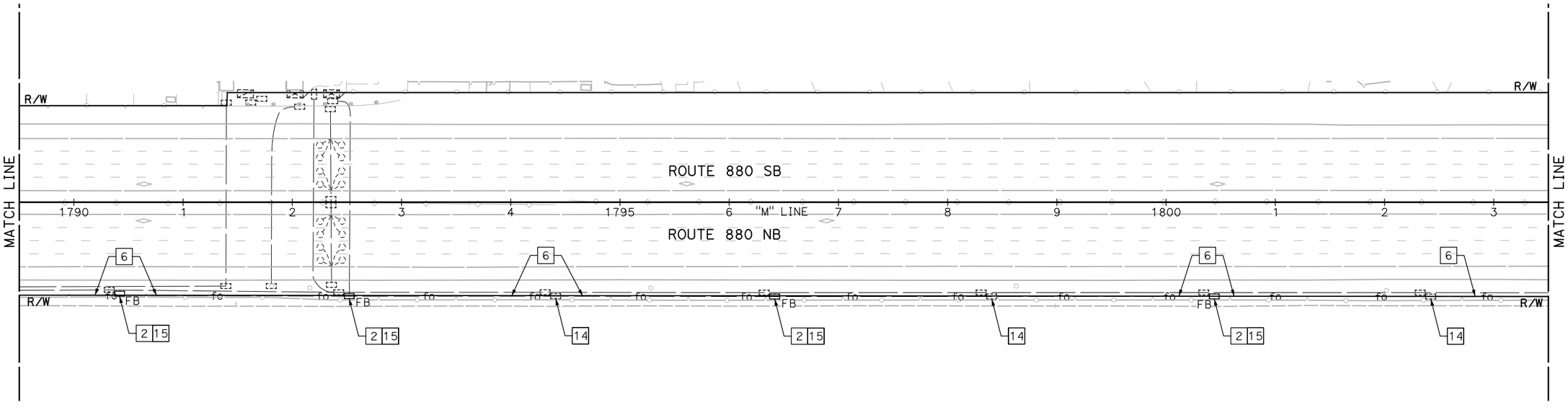
OAKLAND, CA 94607



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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-58

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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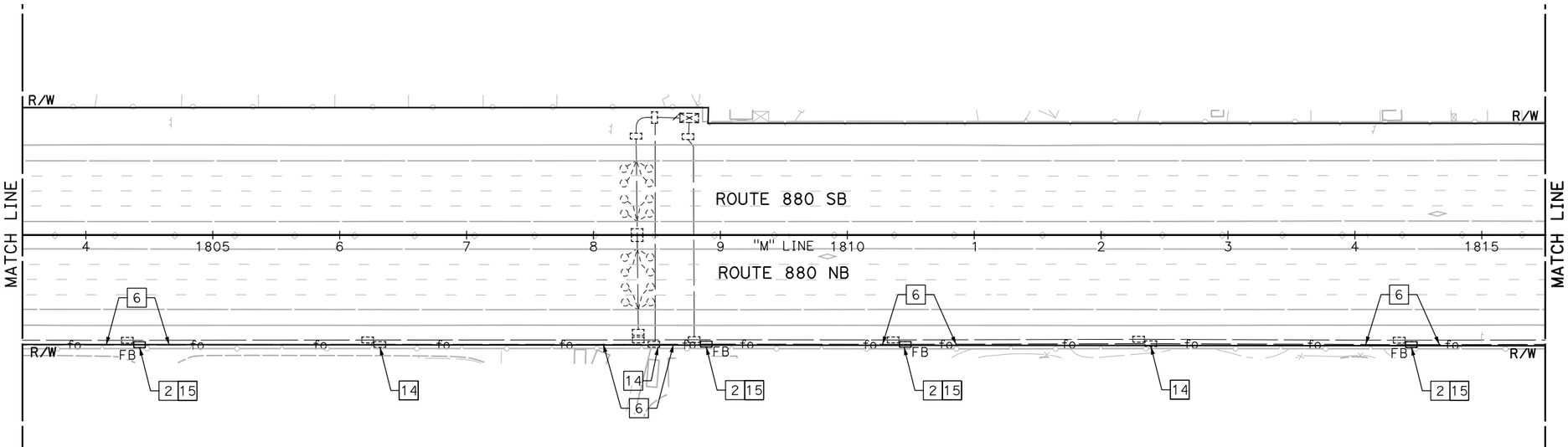

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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

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E-59

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

CALCULATED-DESIGNED BY: JOEY PASKEY

CHECKED BY: KEVIN AGUIGUI

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DATE REVISED

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DATE PLOTTED => 5/24/2015
TIME PLOTTED => 11:31:47 PM

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USERNAME => ZERE2344
DGN FILE => ua059.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT XXXX

PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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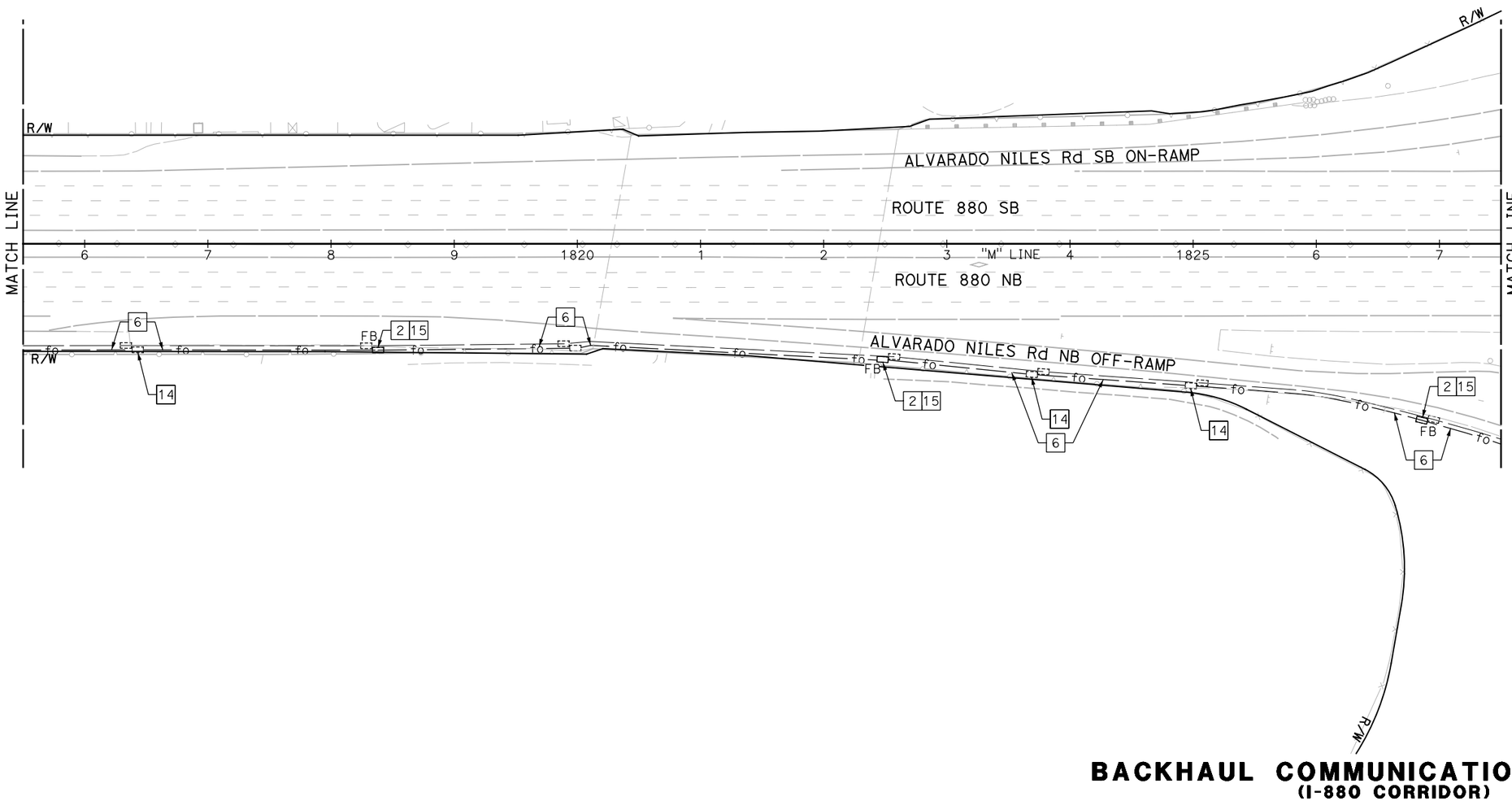

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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

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E-60

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1		XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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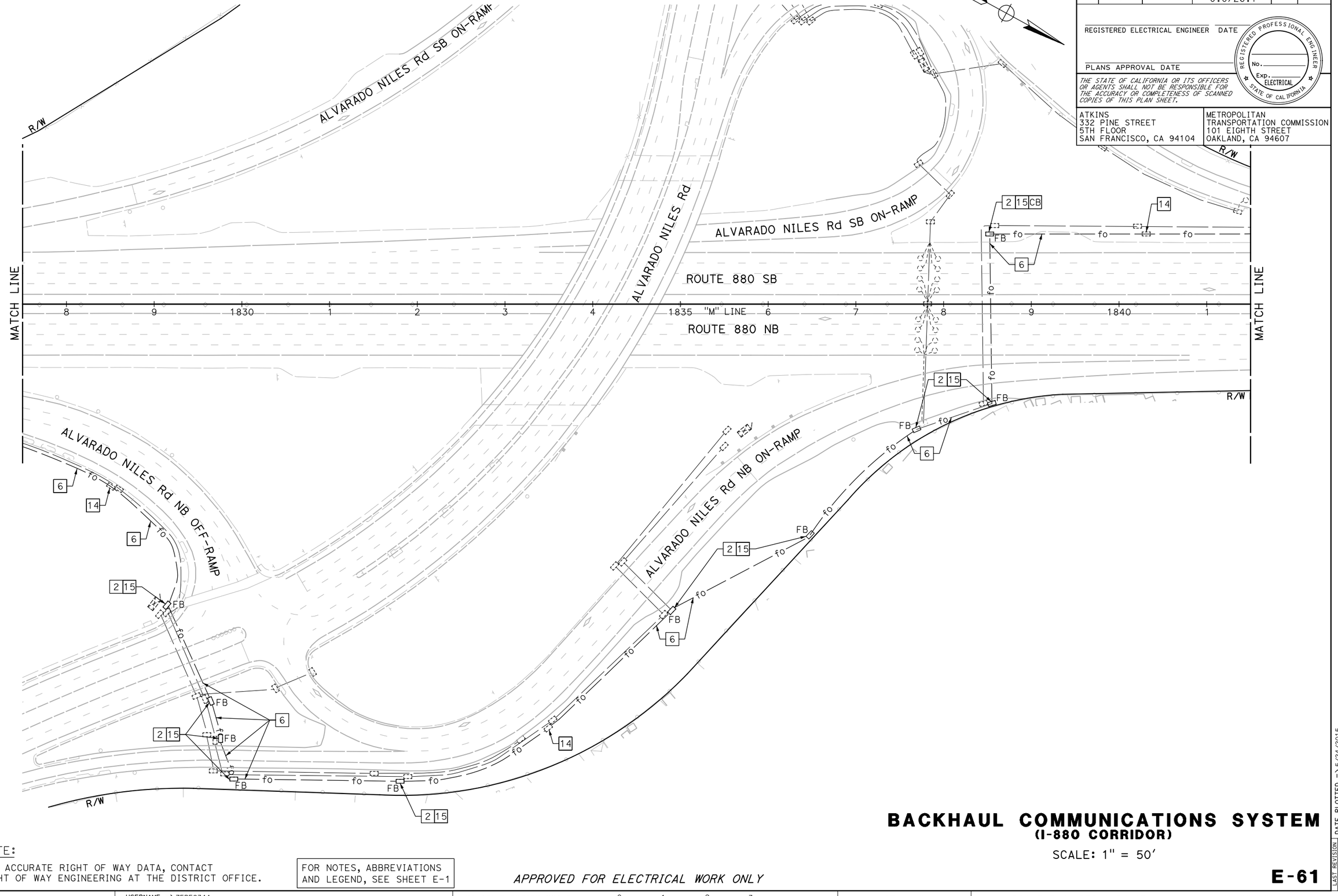
OAKLAND, CA 94607



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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-61

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI

CALCULATED-DESIGNED BY
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DATE PLOTTED => 5/24/2015
TIME PLOTTED => 11:35:10 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
ELECTRICAL
STATE OF CALIFORNIA

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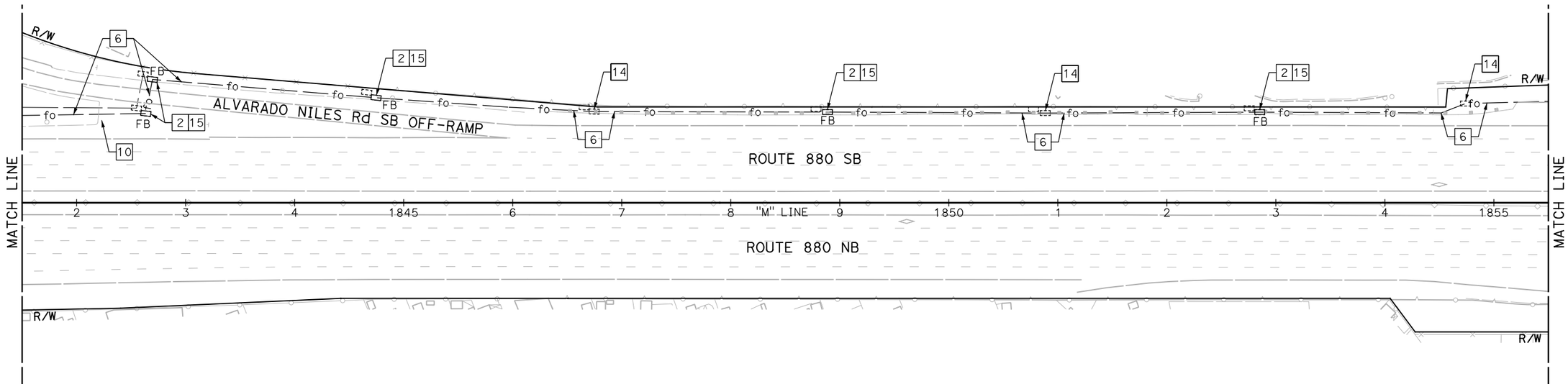
OAKLAND, CA 94607



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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-62

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI
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LAST REVISION 00-00-00 | DATE PLOTTED => 5/24/2015 | TIME PLOTTED => 11:37:06 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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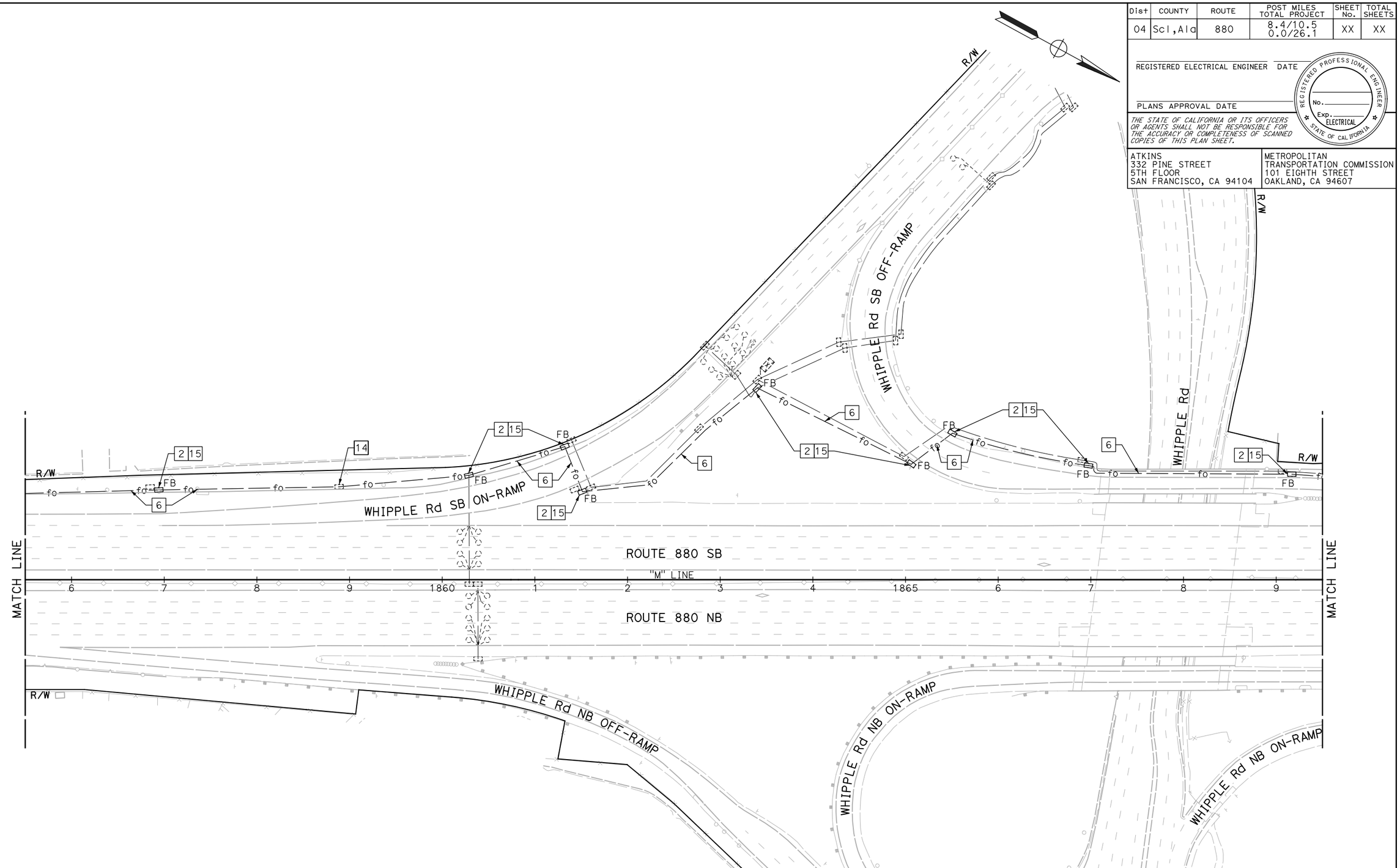
OAKLAND, CA 94607



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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-63

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua063.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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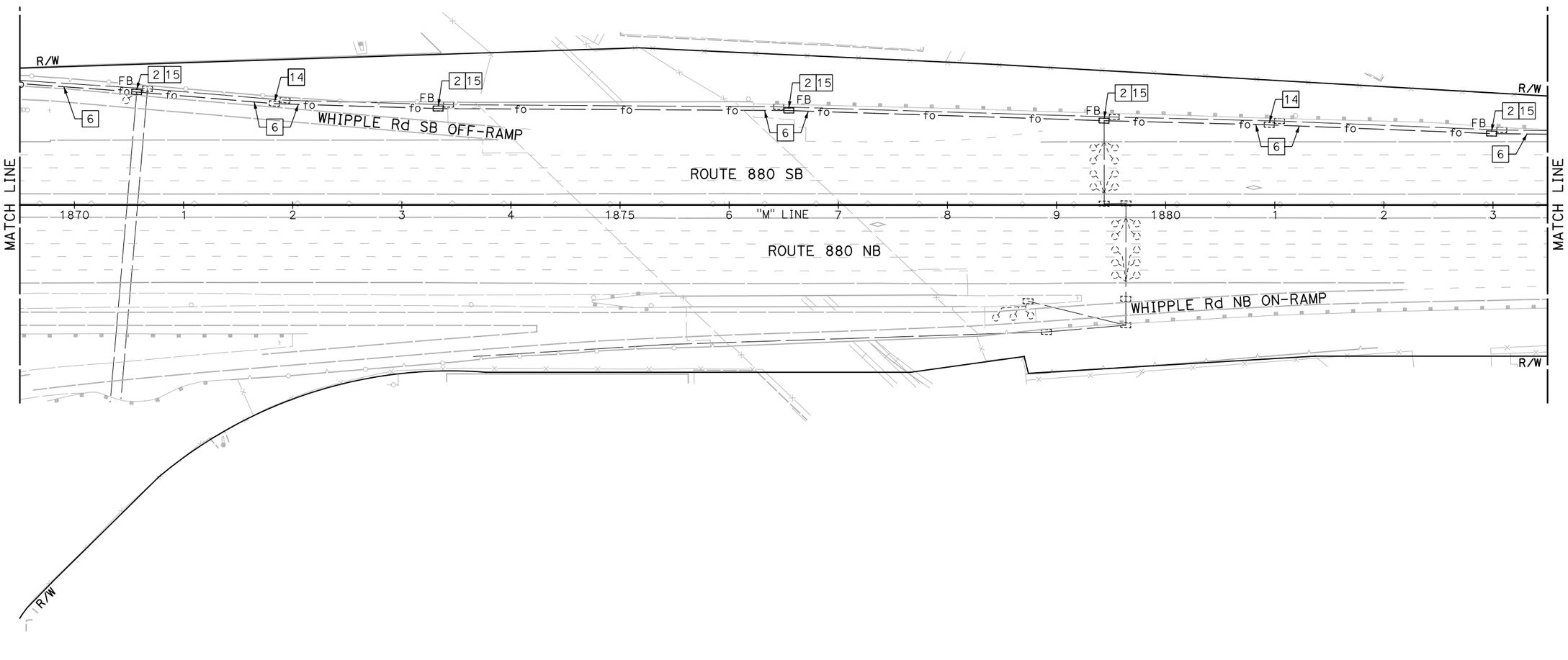
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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

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E-64

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CONSULTANT FUNCTIONAL SUPERVISOR	KAI CHAN

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LAST REVISION 00-00-00 DATE PLOTTED => 5/24/2015 TIME PLOTTED => 11:40:49 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua064.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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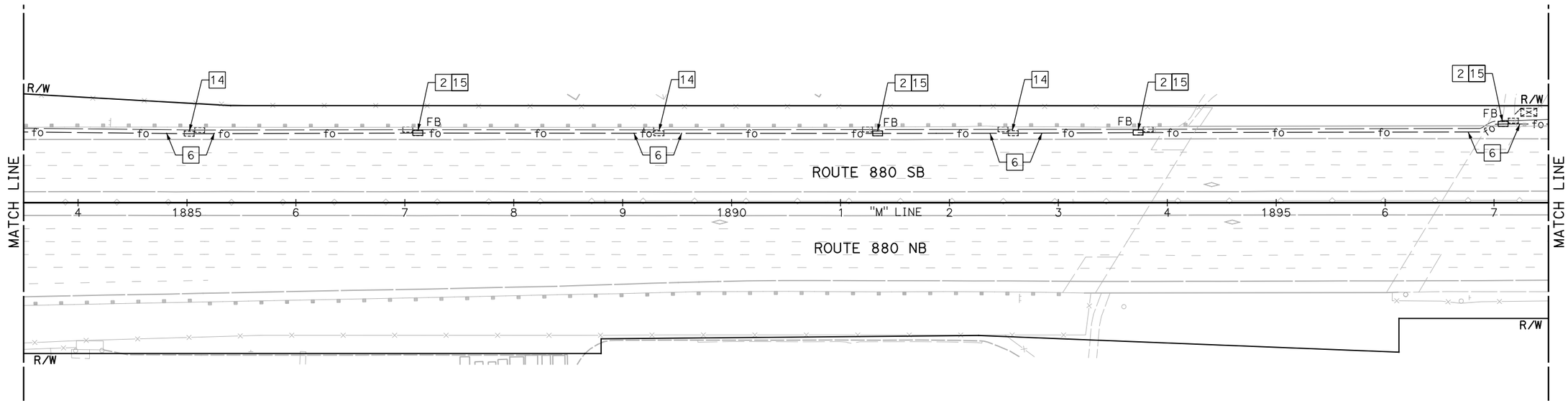
OAKLAND, CA 94607



NOTE:

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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-65

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
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DATE PLOTTED => 5/24/2015
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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua065.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
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STATE OF CALIFORNIA

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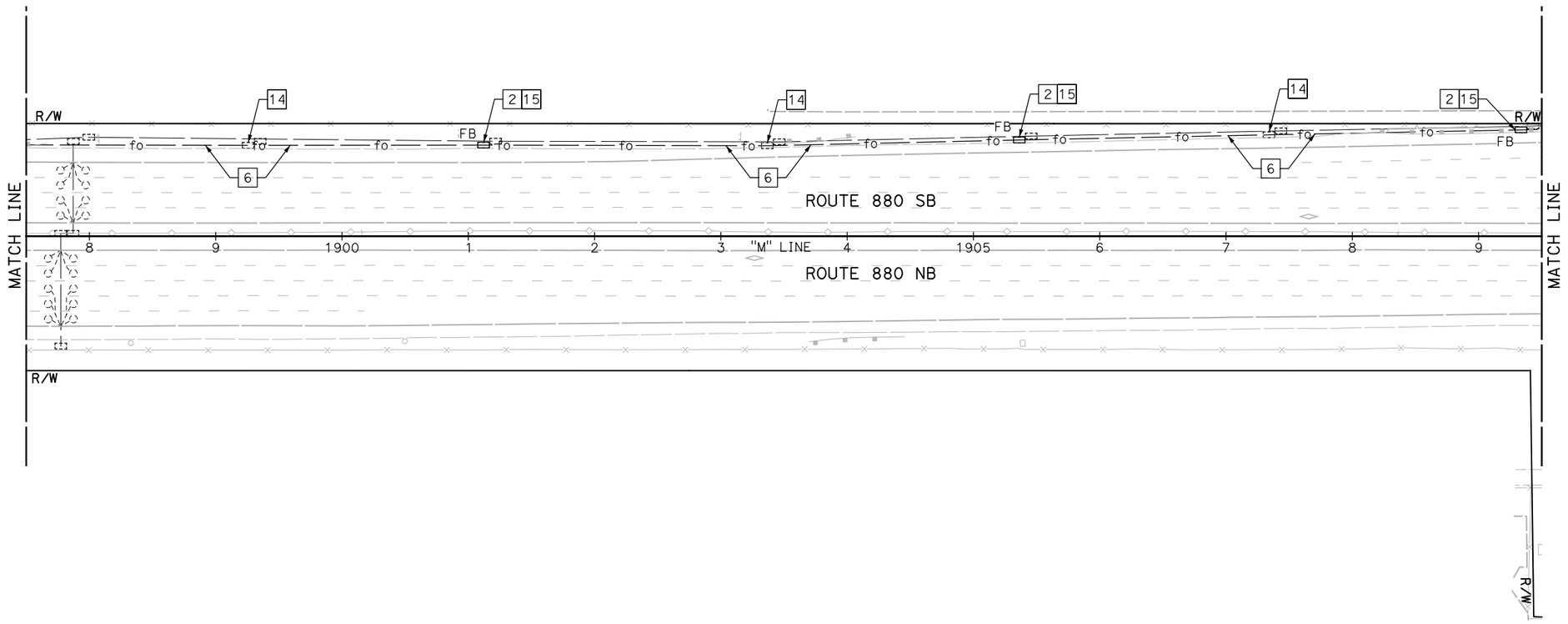
OAKLAND, CA 94607



NOTE:

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

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-66

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 11:44:35 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua066.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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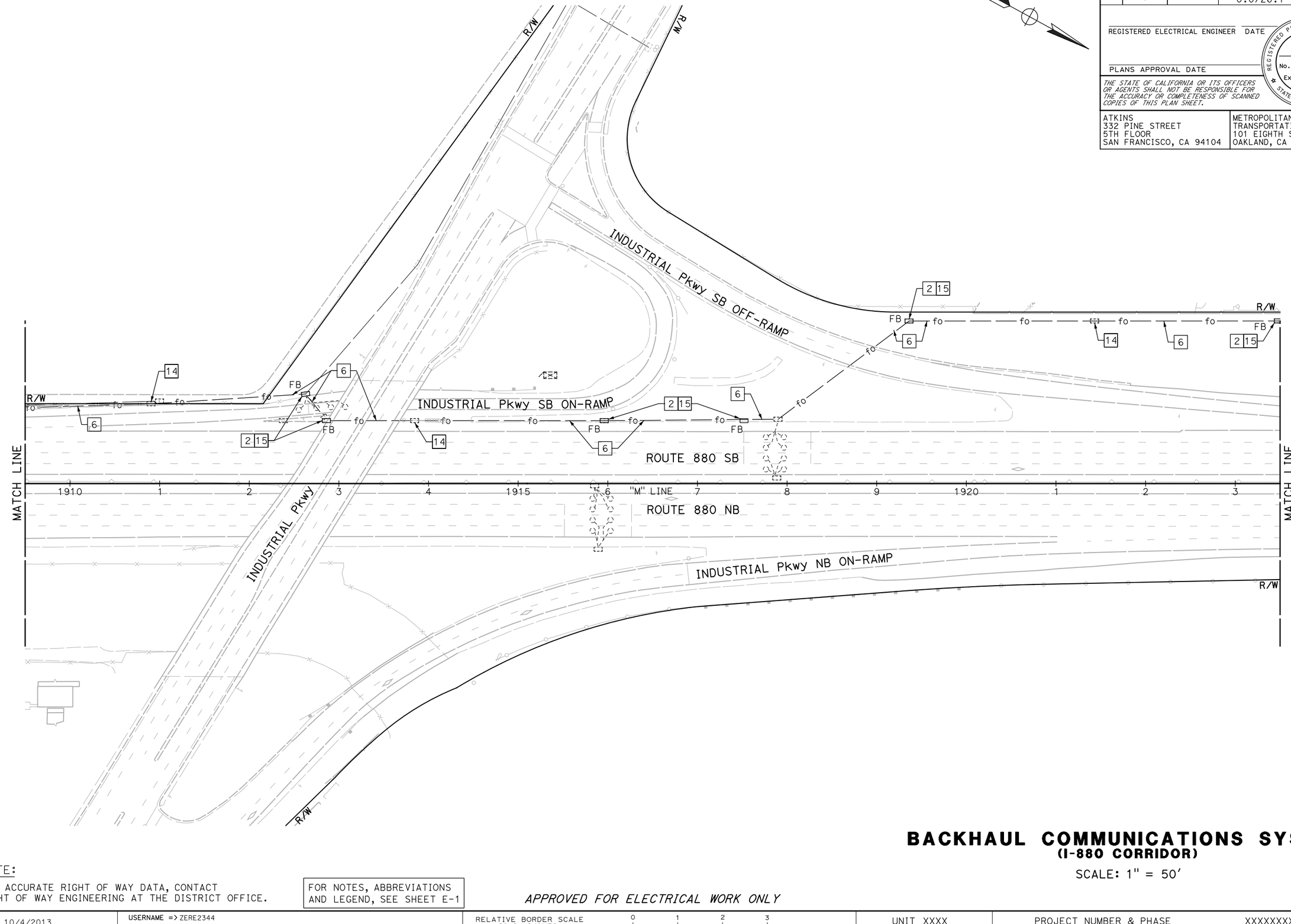
OAKLAND, CA 94607



NOTE:

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

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

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-67

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ua067.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 11:48:23 PM

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ua067.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
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Exp.
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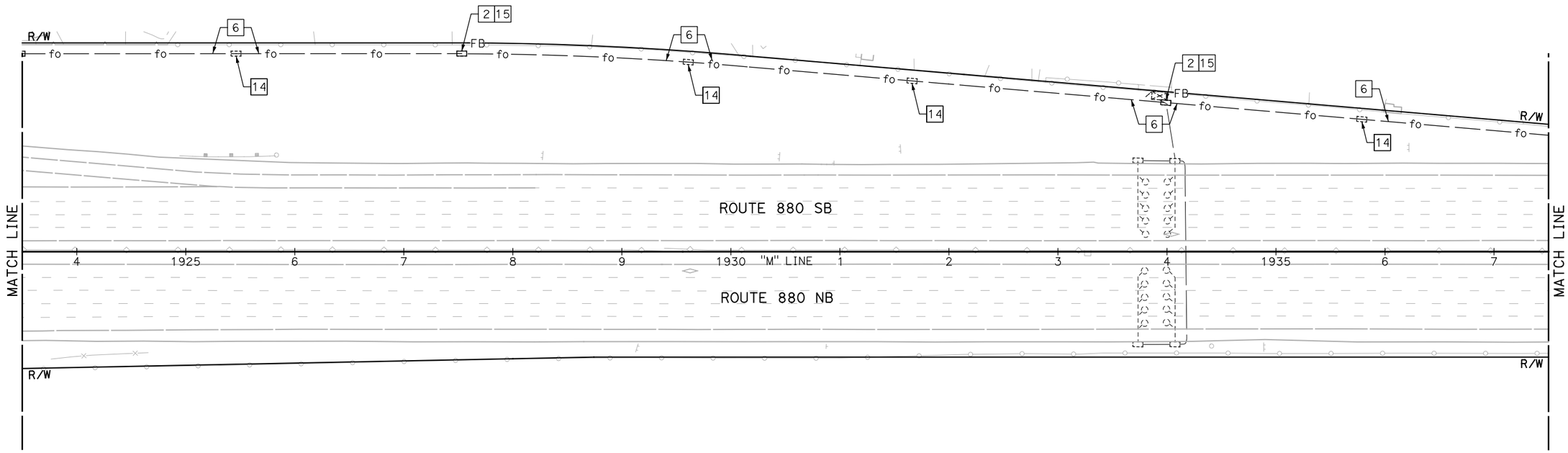
OAKLAND, CA 94607



NOTE:

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

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-68

REVISED BY | JOEY PASKEY
DATE REVISED | KEVIN AGUIGUI
CALCULATED-DESIGNED BY
CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR | KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 11:49:58 PM

c:\pw_work\atknaca01\zere2344\dms01003\ua068.dgn

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua068.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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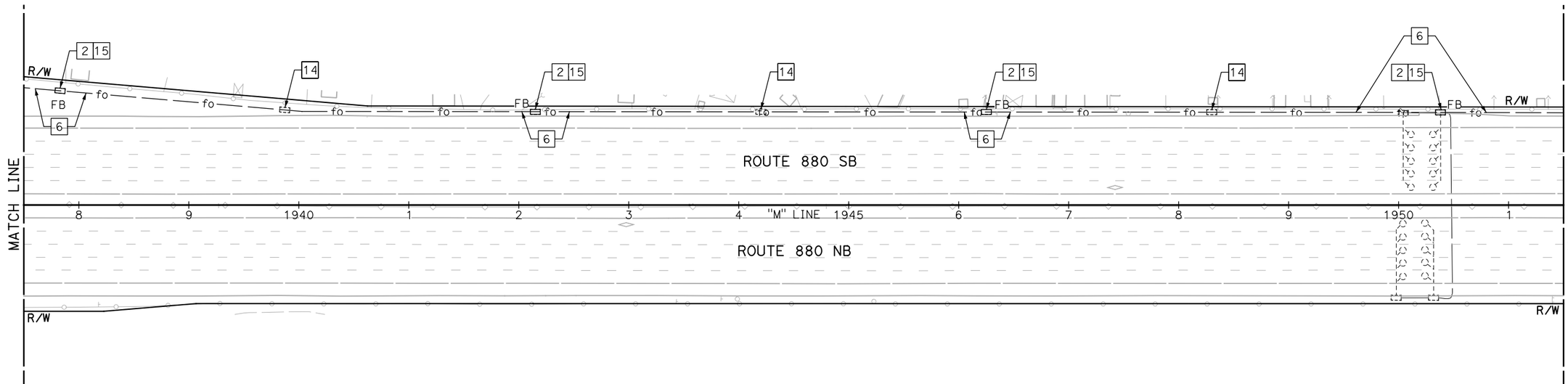
SAN FRANCISCO, CA 94104

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 E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-69

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION DATE PLOTTED => 5/24/2015
00-00-00 TIME PLOTTED => 11:51:43 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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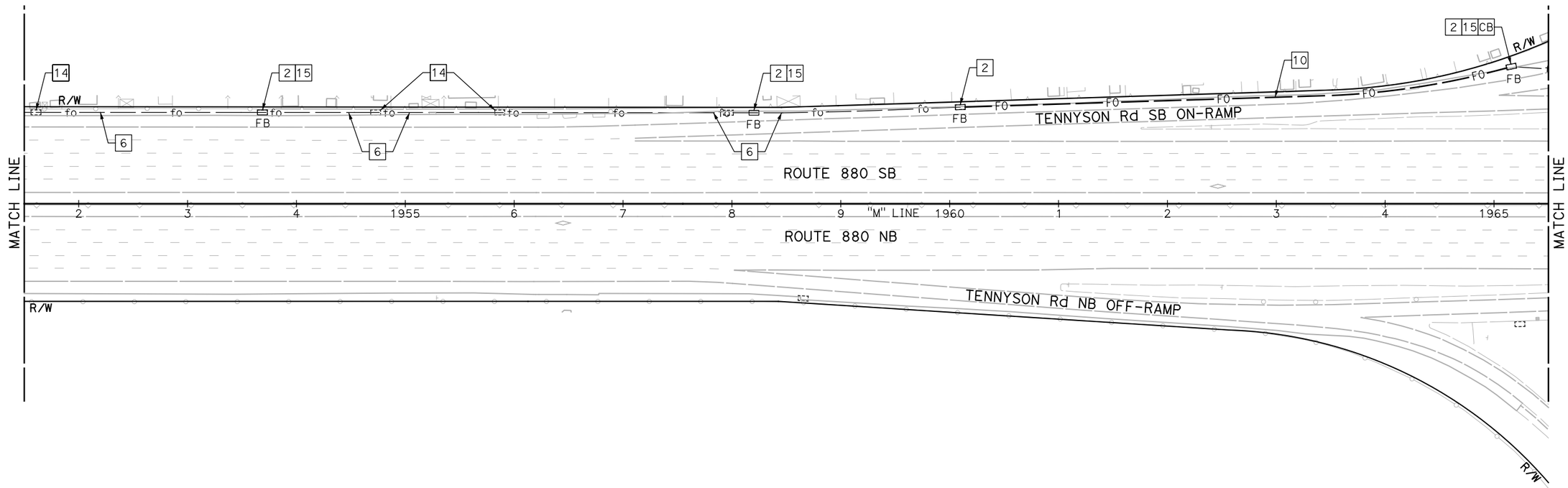
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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

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E-70

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

CALCULATED-DESIGNED BY: JOEY PASKEY

CHECKED BY: KEVIN AGUIGUI

REVISED BY

DATE REVISED

c:\pw_work\atknaca01\zere2344\dms01003\ua070.dgn

LAST REVISION 00-00-00

DATE PLOTTED => 5/24/2015
TIME PLOTTED => 11:53:20 PM

BORDER LAST REVISED 10/4/2013

USERNAME => ZERE2344
DGN FILE => ua070.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT XXXX

PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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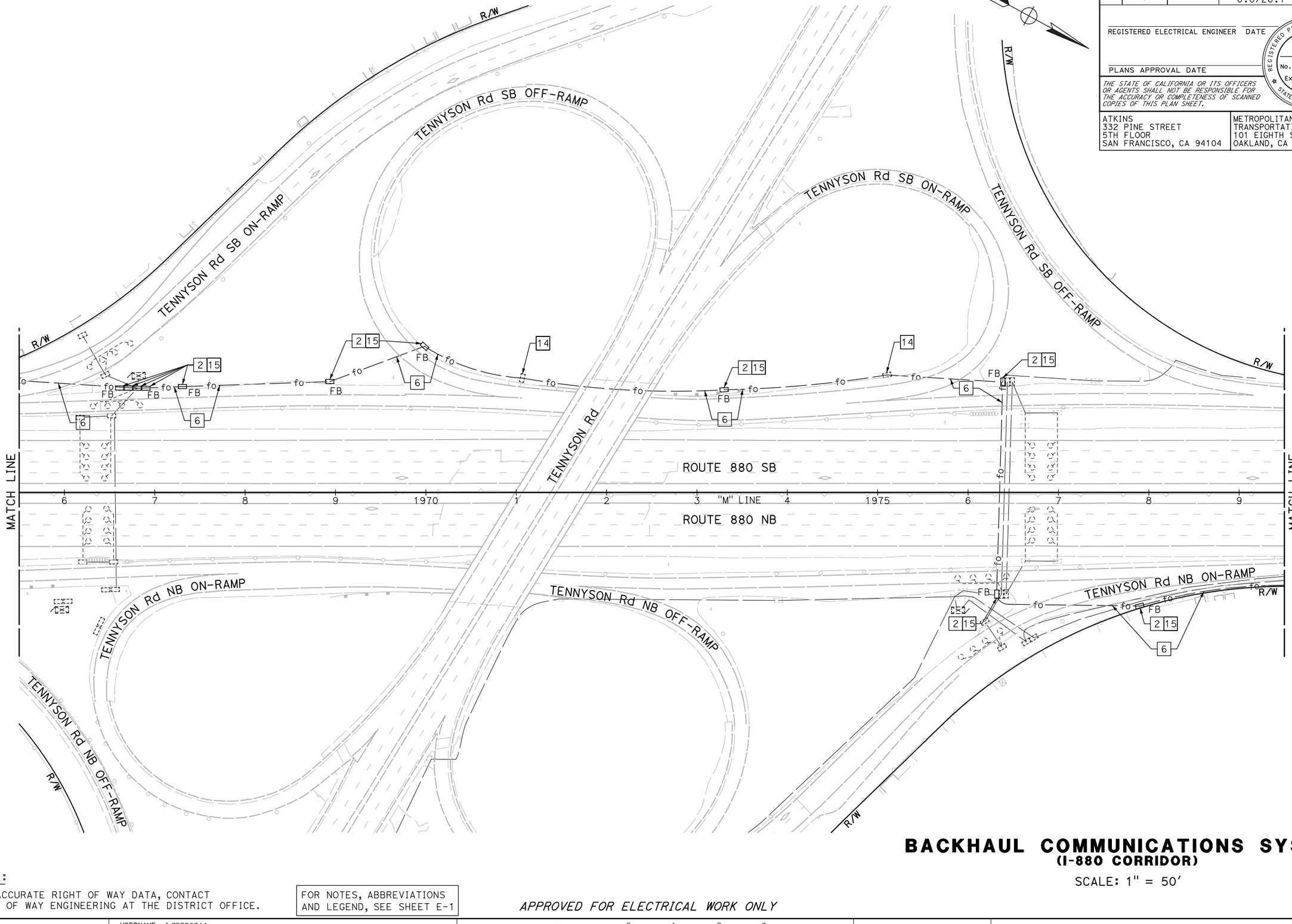
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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

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E-71

REVISED BY	DATE REVISED

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CHECKED BY: KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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c:\pw_work\atknaca01\zere2344\dms01003\ua071.dgn

LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 11:55:07 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua071.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
ELECTRICAL
STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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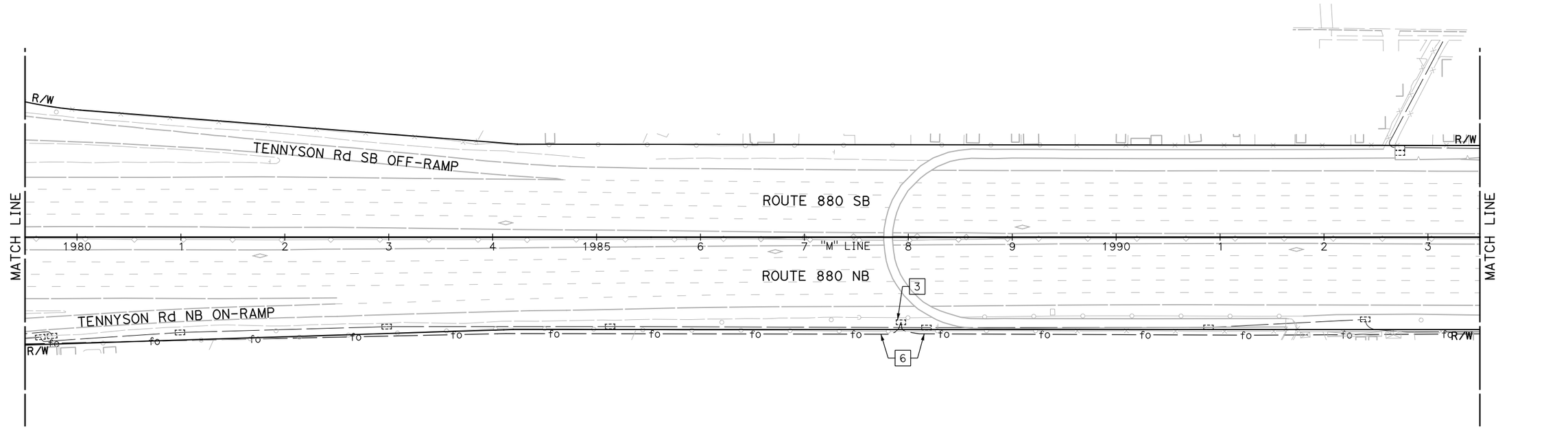
101 EIGHTH STREET
OAKLAND, CA 94607



NOTE:

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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-72

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 5/24/2015
00-00-00 | TIME PLOTTED => 11:56:49 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp. ELECTRICAL
STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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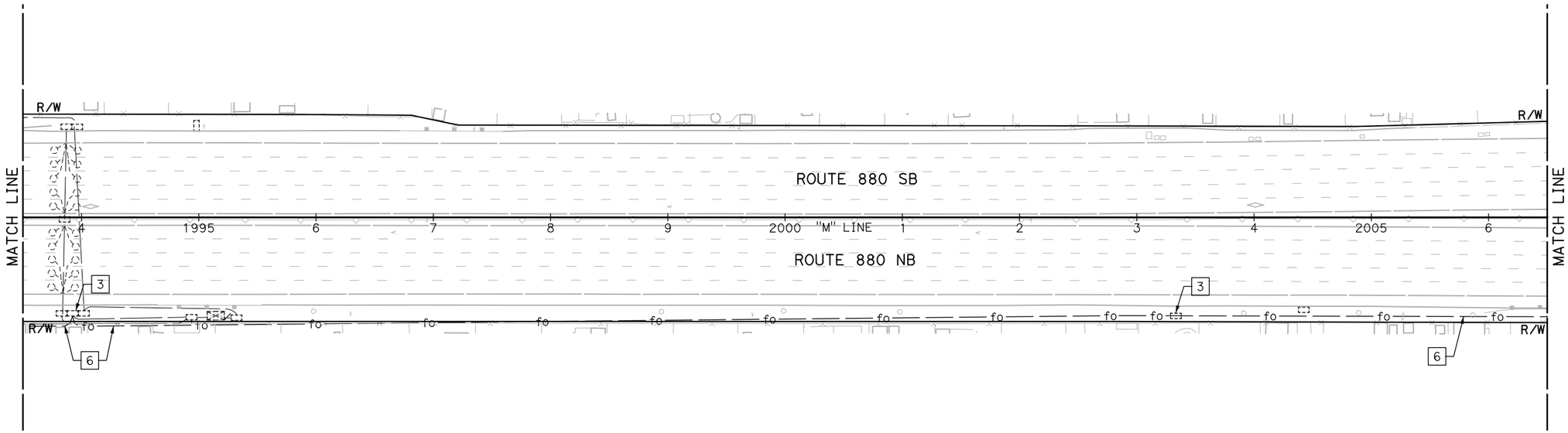
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-73

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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CALCULATED-DESIGNED BY	JOEY PASKEY	REVISED BY	
CHECKED BY	KEVIN AGUIGUI	DATE REVISED	
CONSULTANT FUNCTIONAL SUPERVISOR	KAI CHAN		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION			

c:\pw_work\atknaca01\zere2344\dms01003\ua073.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/24/2015
TIME PLOTTED => 11:58:42 PM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua073.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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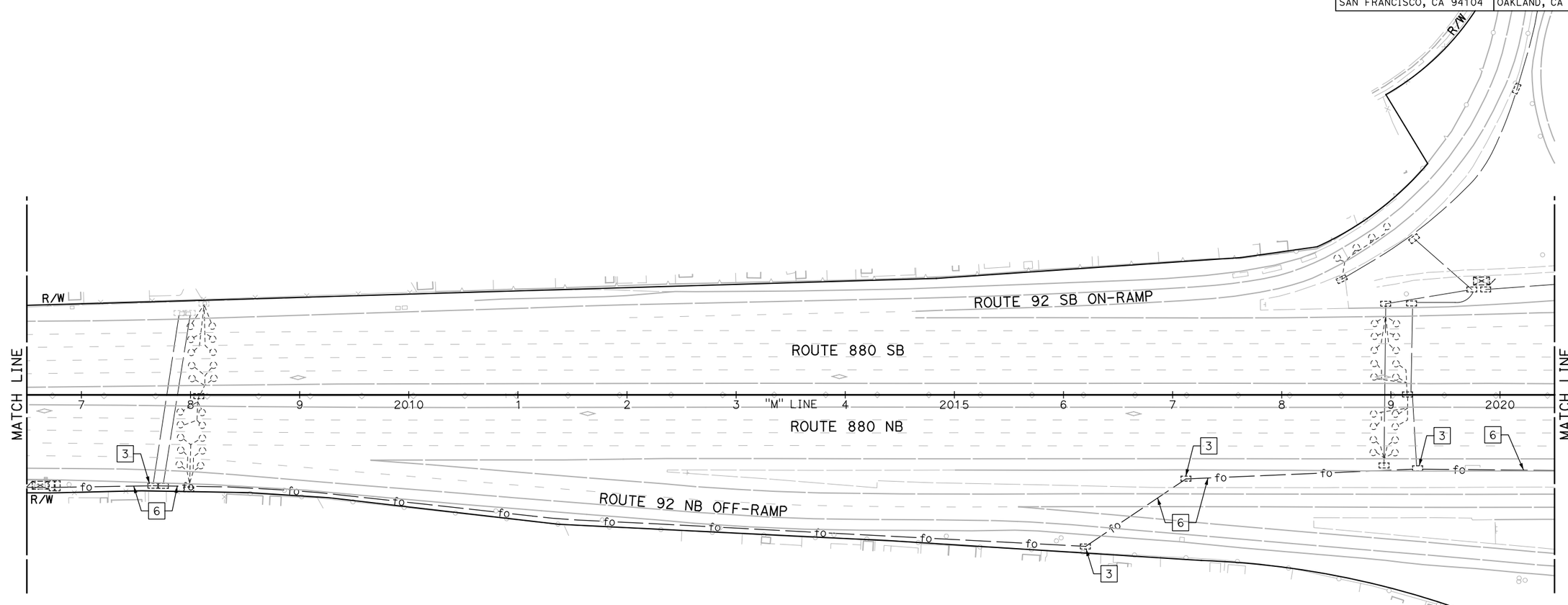
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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

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E-74

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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LAST REVISION 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:00:22 AM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua074.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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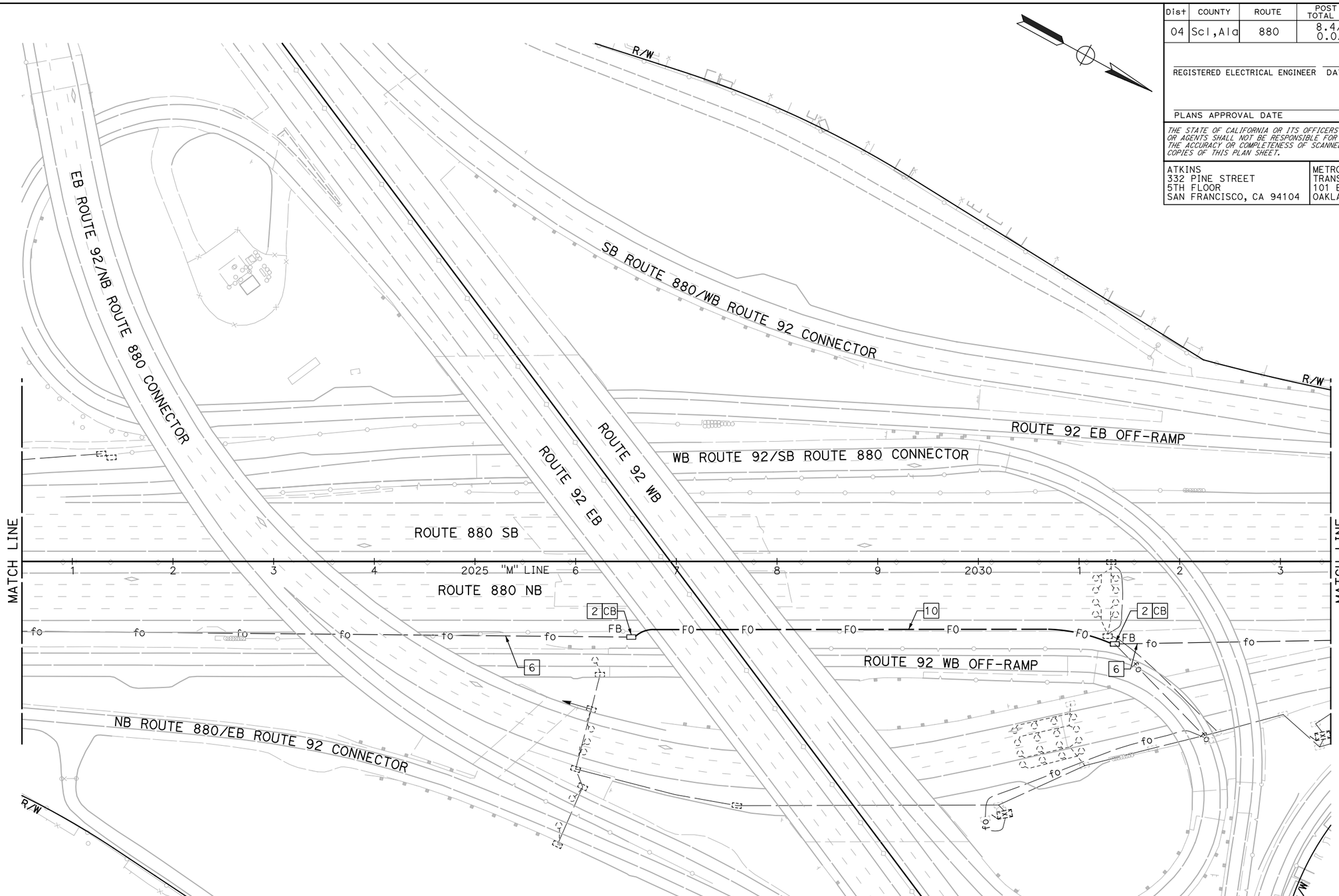
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-75

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:02:00 AM

LAST REVISION 00-00-00

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua075.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94104

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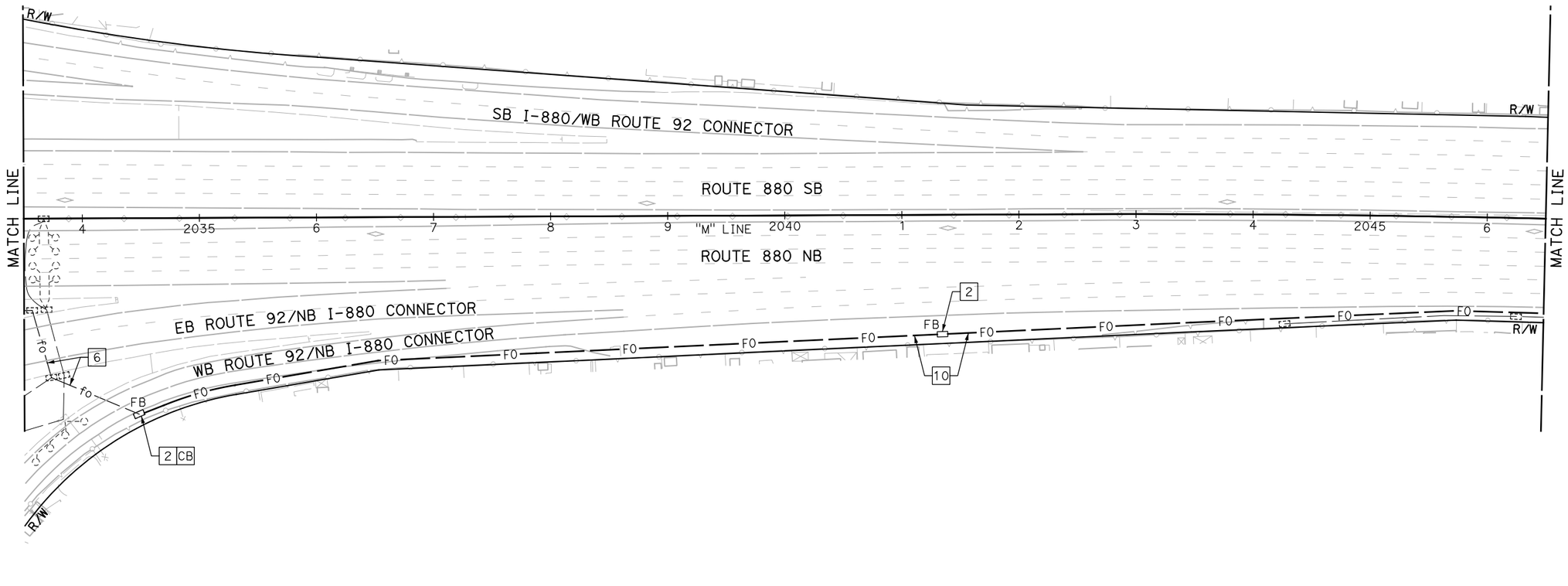
101 EIGHTH STREET
OAKLAND, CA 94607



NOTE:

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

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

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-76

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:03:41 AM

c:\pw_work\atknaca01\zere2344\dms01003\ua076.dgn

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua076.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
ELECTRICAL
STATE OF CALIFORNIA

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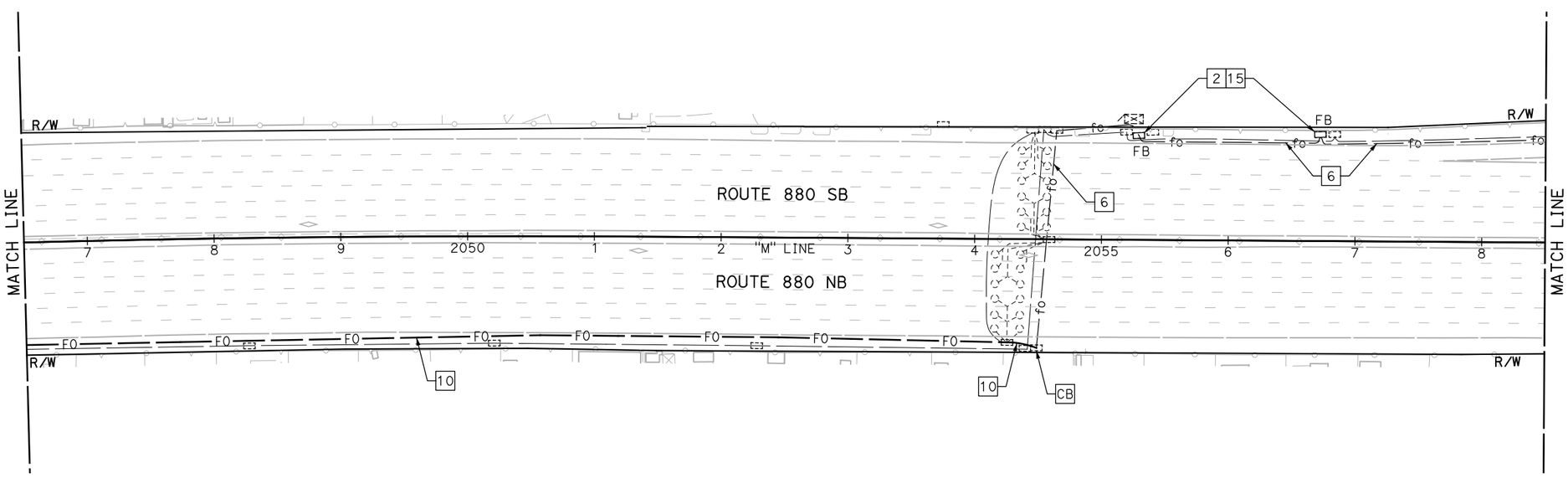
5TH FLOOR
SAN FRANCISCO, CA 94104

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 E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-77

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY
JOEY PASKEY

CHECKED BY
KEVIN AGUIGUI

CONSULTANT FUNCTIONAL SUPERVISOR
KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ua077.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:05:19 AM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua077.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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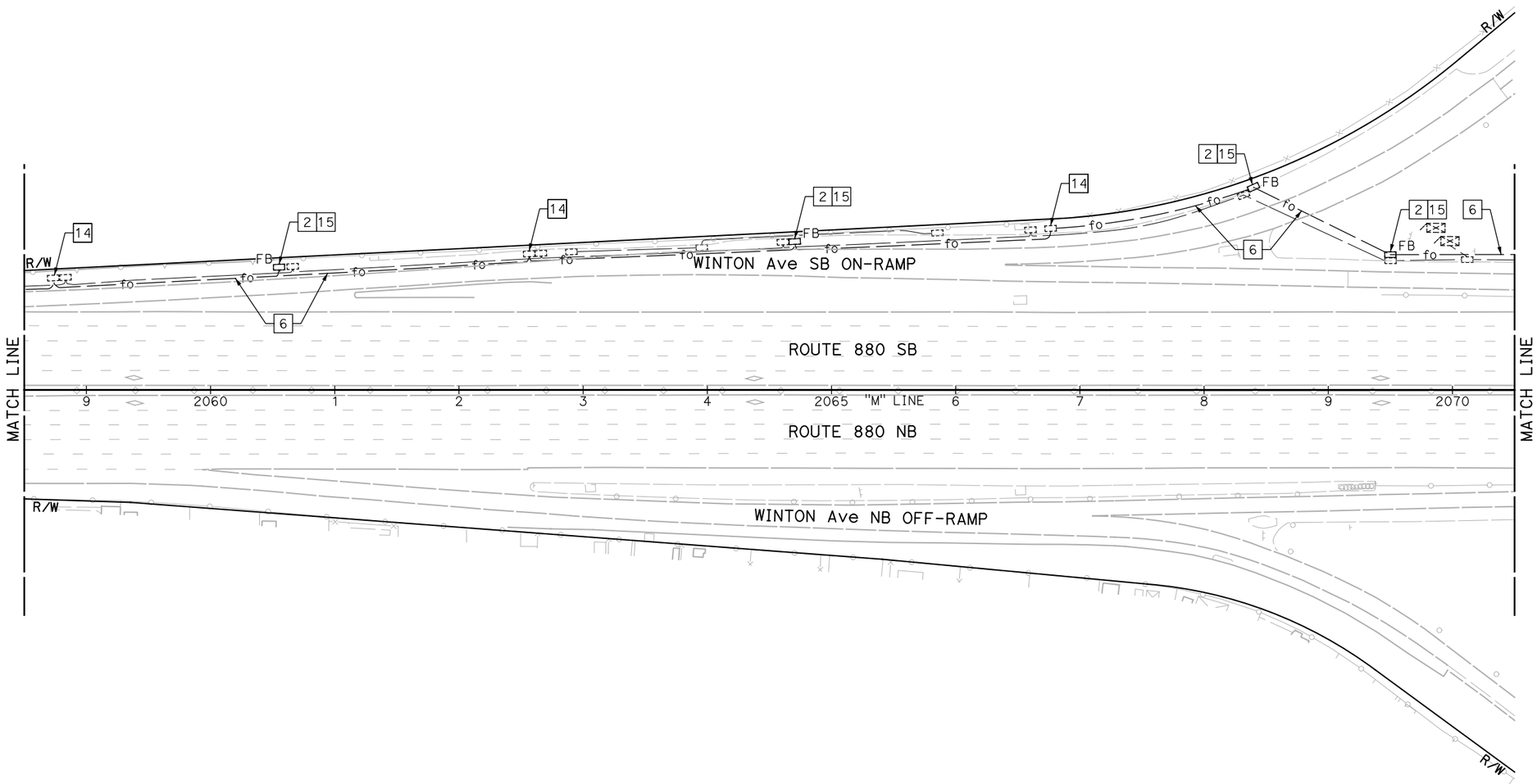
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-78

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:06:58 AM

c:\pw_work\atknaca01\zere2344\dms01003\ua078.dgn

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ua078.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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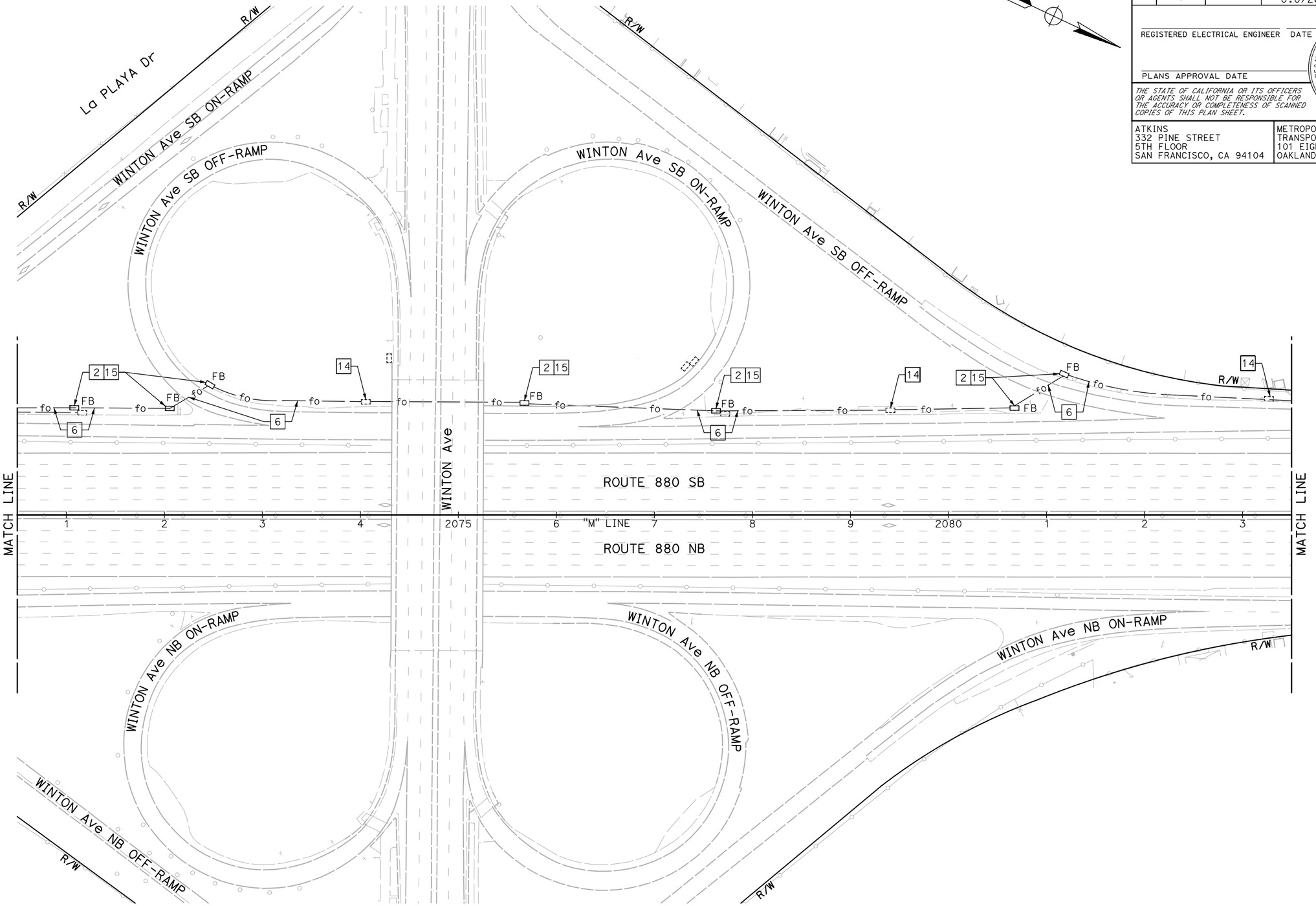
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-79

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:08:32 AM

c:\pw_work\atknacc01\zere2344\dms01003\ua079.dgn

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua079.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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5TH FLOOR
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METROPOLITAN
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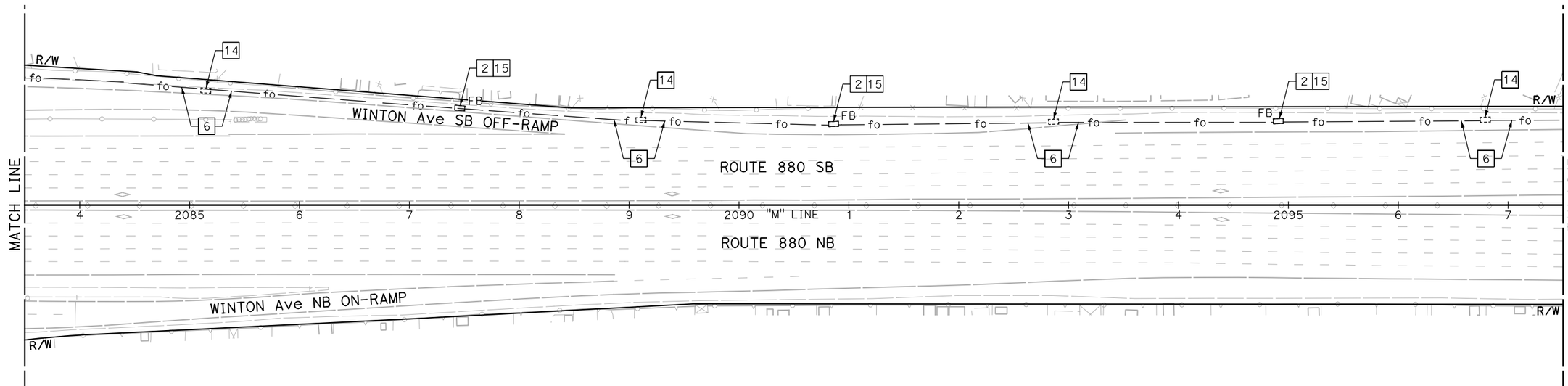
101 EIGHTH STREET
OAKLAND, CA 94607



NOTE:

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

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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-80

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:10:07 AM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua080.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
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STATE OF CALIFORNIA

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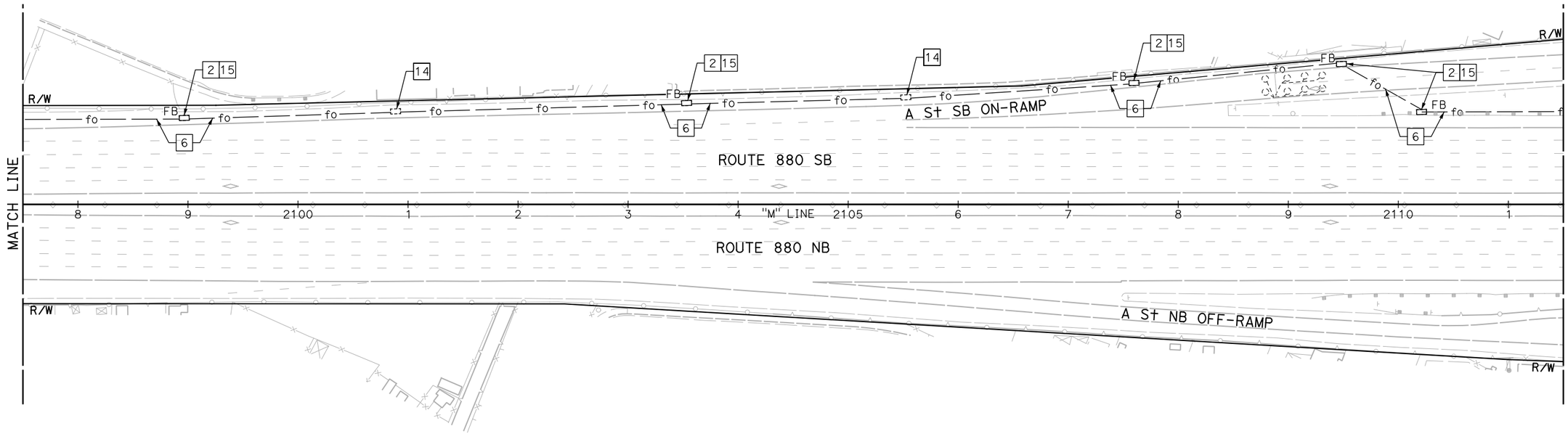
SAN FRANCISCO, CA 94104

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 E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-81

REVISED BY	JOEY PASKEY
DATE REVISED	KEVIN AGUIGUI
CALCULATED-DESIGNED BY	
CHECKED BY	
CONSULTANT FUNCTIONAL SUPERVISOR	KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ua081.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:11:44 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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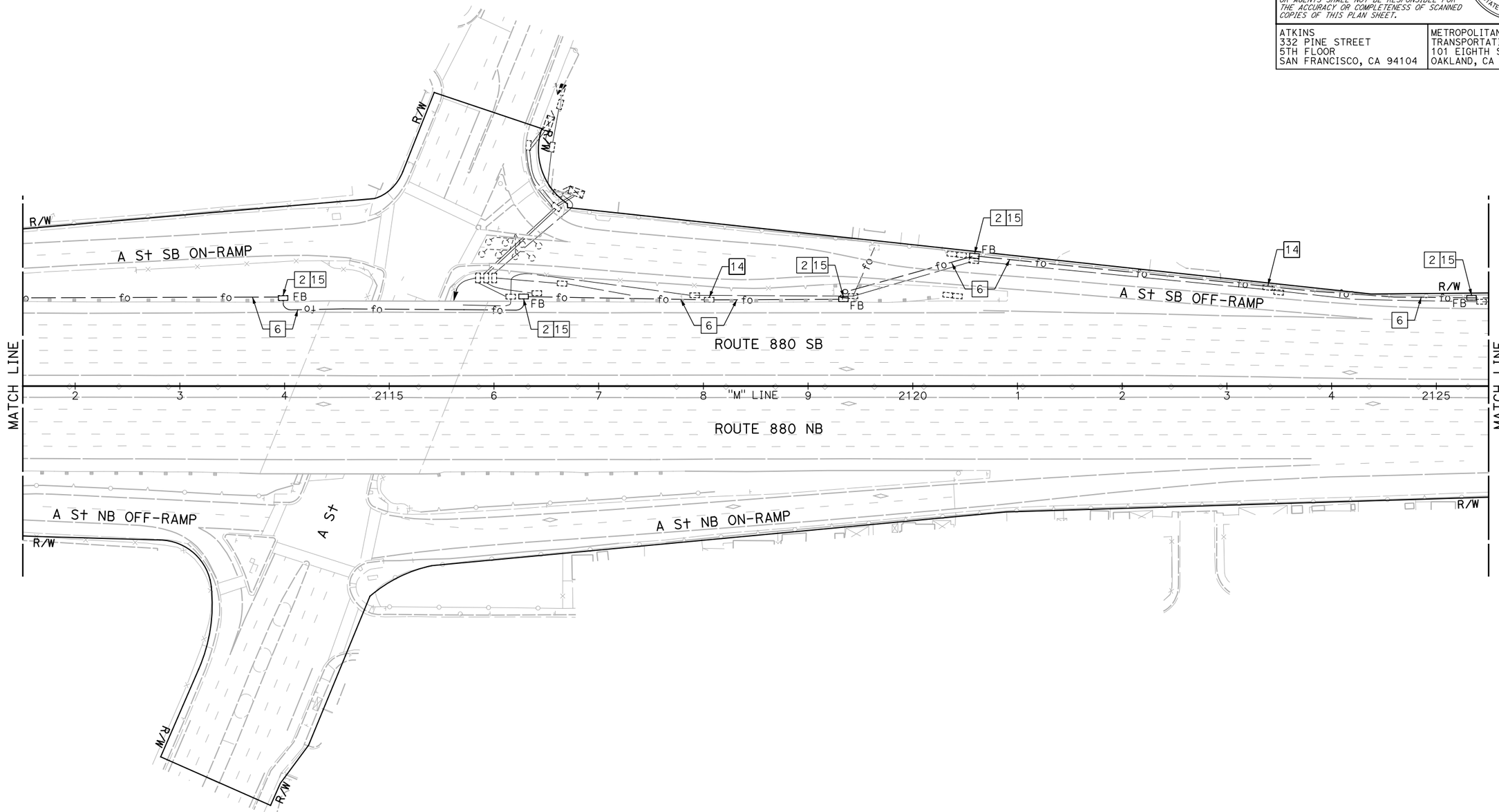
5TH FLOOR
SAN FRANCISCO, CA 94104

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 E-1

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-82

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CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR
KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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c:\pw_work\atknacq01\zere2344\dms01003\ua082.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:13:15 AM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua082.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

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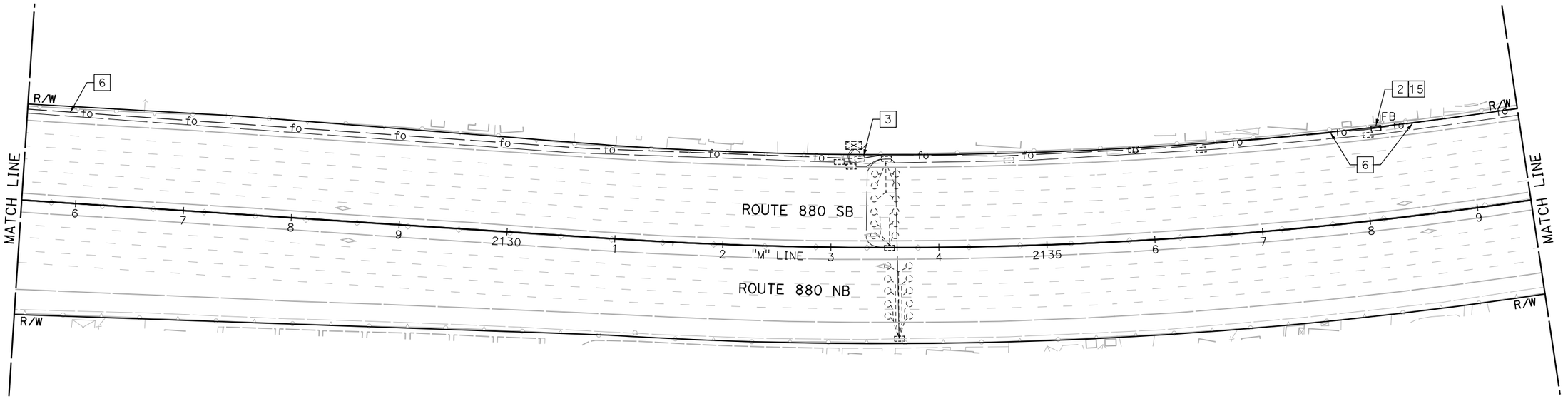
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-83

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

CALCULATED-DESIGNED BY: JOEY PASKEY

CHECKED BY: KEVIN AGUIGUI

REVISED BY

DATE REVISED

c:\pw_work\atknaca01\zere2344\dms01003\ua083.dgn

LAST REVISION 00-00-00

DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:14:48 AM

BORDER LAST REVISED 10/4/2013

USERNAME => ZERE2344
DGN FILE => ua083.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT XXXX

PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
ELECTRICAL
STATE OF CALIFORNIA

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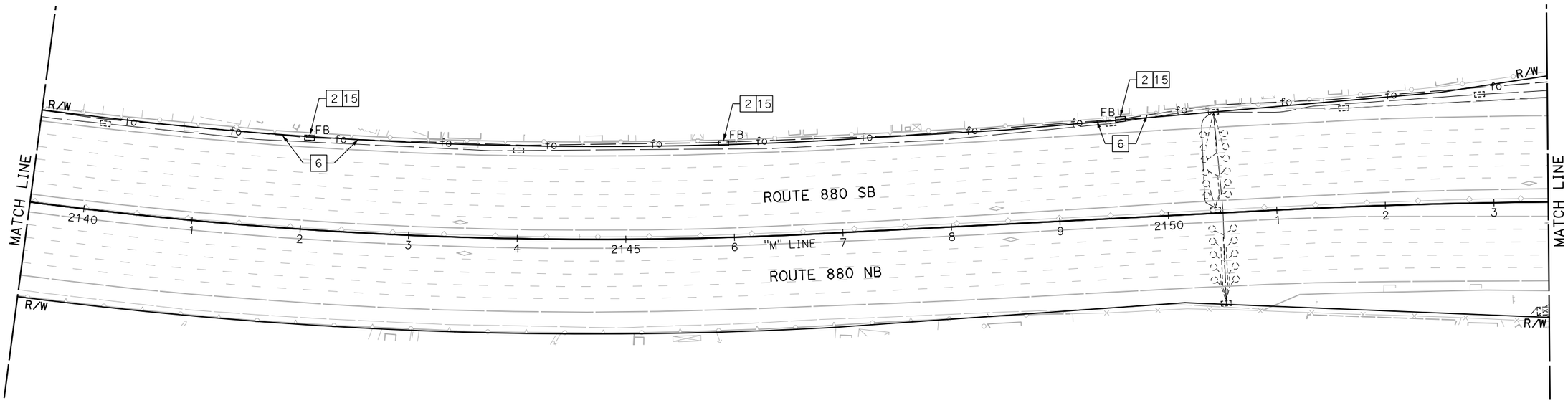
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
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
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-84

REVISED BY | DATE REVISED

JOEY PASKEY | KEVIN AGUIGUI

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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c:\pw_work\dfknaca01\zere2344\dms01003\ua084.dgn

LAST REVISION | DATE PLOTTED => 5/25/2015 | TIME PLOTTED => 12:16:23 AM | 00-00-00

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua084.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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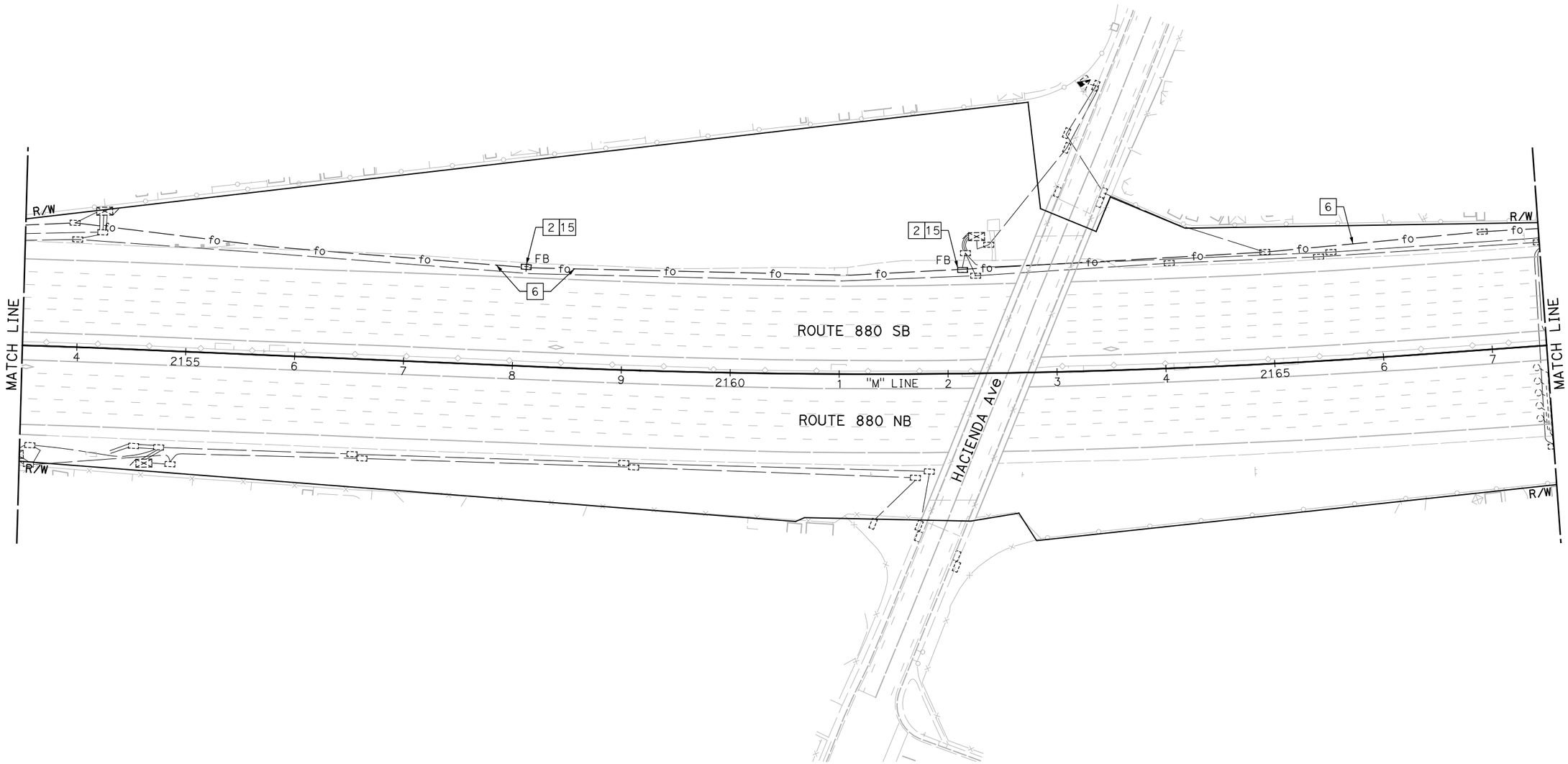
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-85

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c:\pw_work\atkncaca01\zere2344\dms01003\ua085.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:18:00 AM

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ua085.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

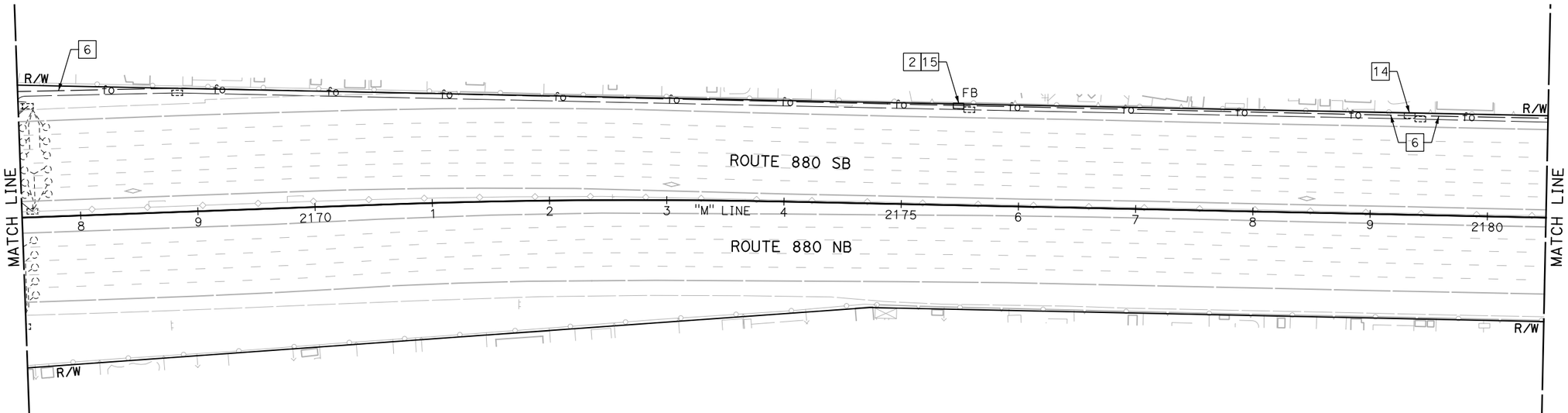
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
ELECTRICAL
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



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-86

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:19:37 AM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua086.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL 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.

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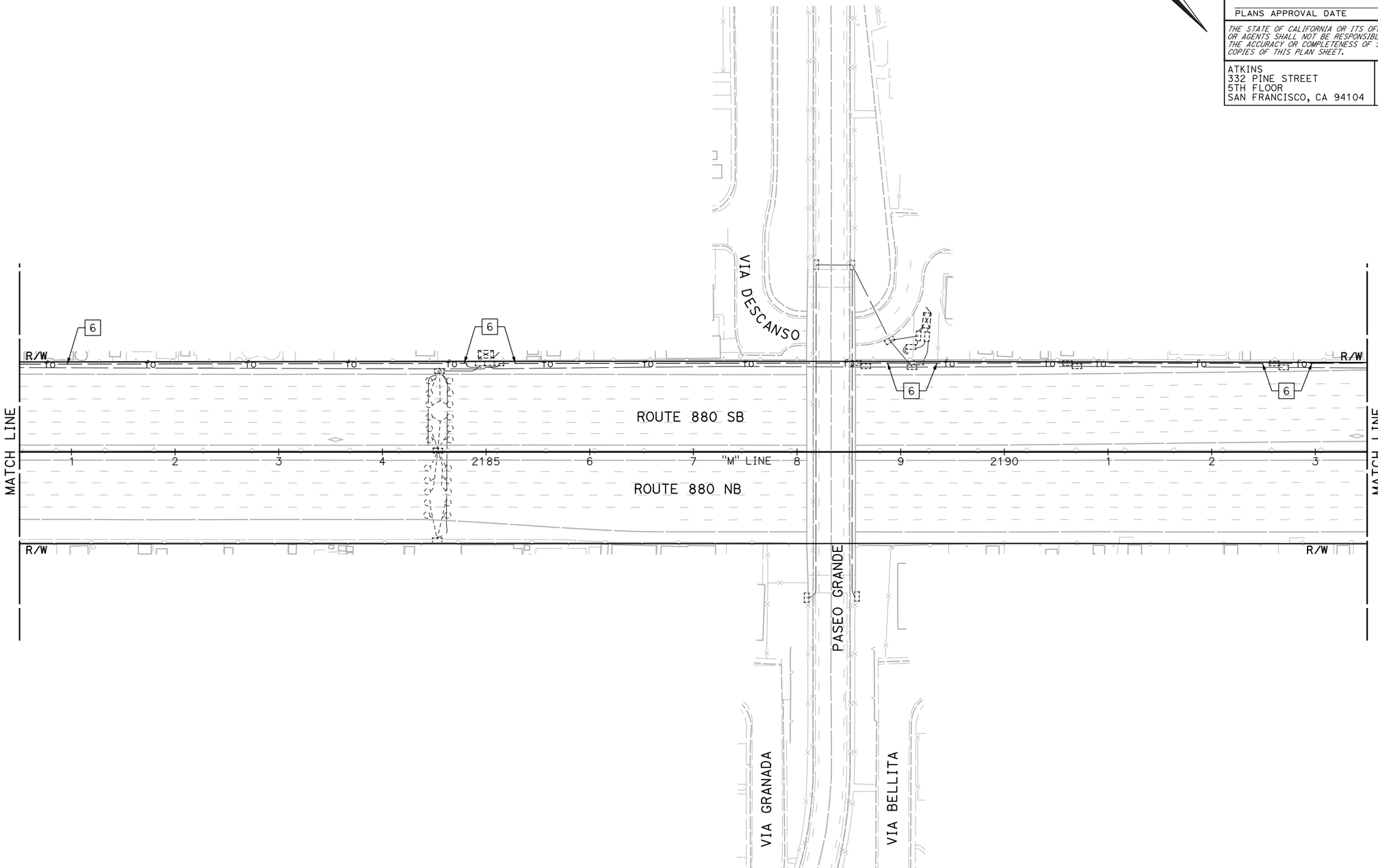
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-87

REVISED BY | DATE REVISED

JOEY PASKEY | KEVIN AGUIGUI

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 => 5/25/2015 | TIME PLOTTED => 12:21:12 AM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua087.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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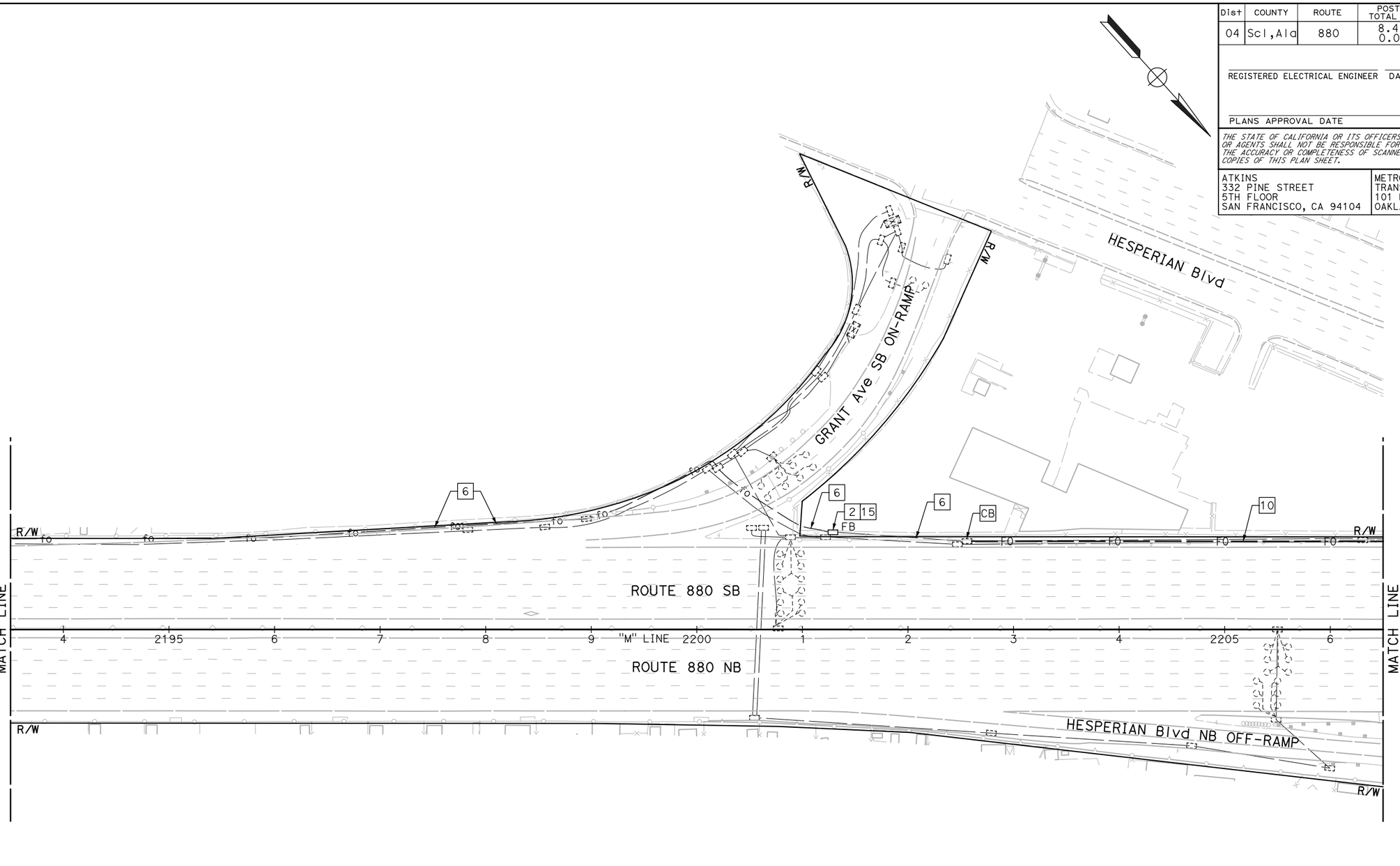
5TH FLOOR
SAN FRANCISCO, CA 94104

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 E-1

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-88

REVISED BY | DATE REVISED
JOEY PASKEY | KEVIN AGUIGUI
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 5/25/2015 | TIME PLOTTED => 12:22:50 AM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua088.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL 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.

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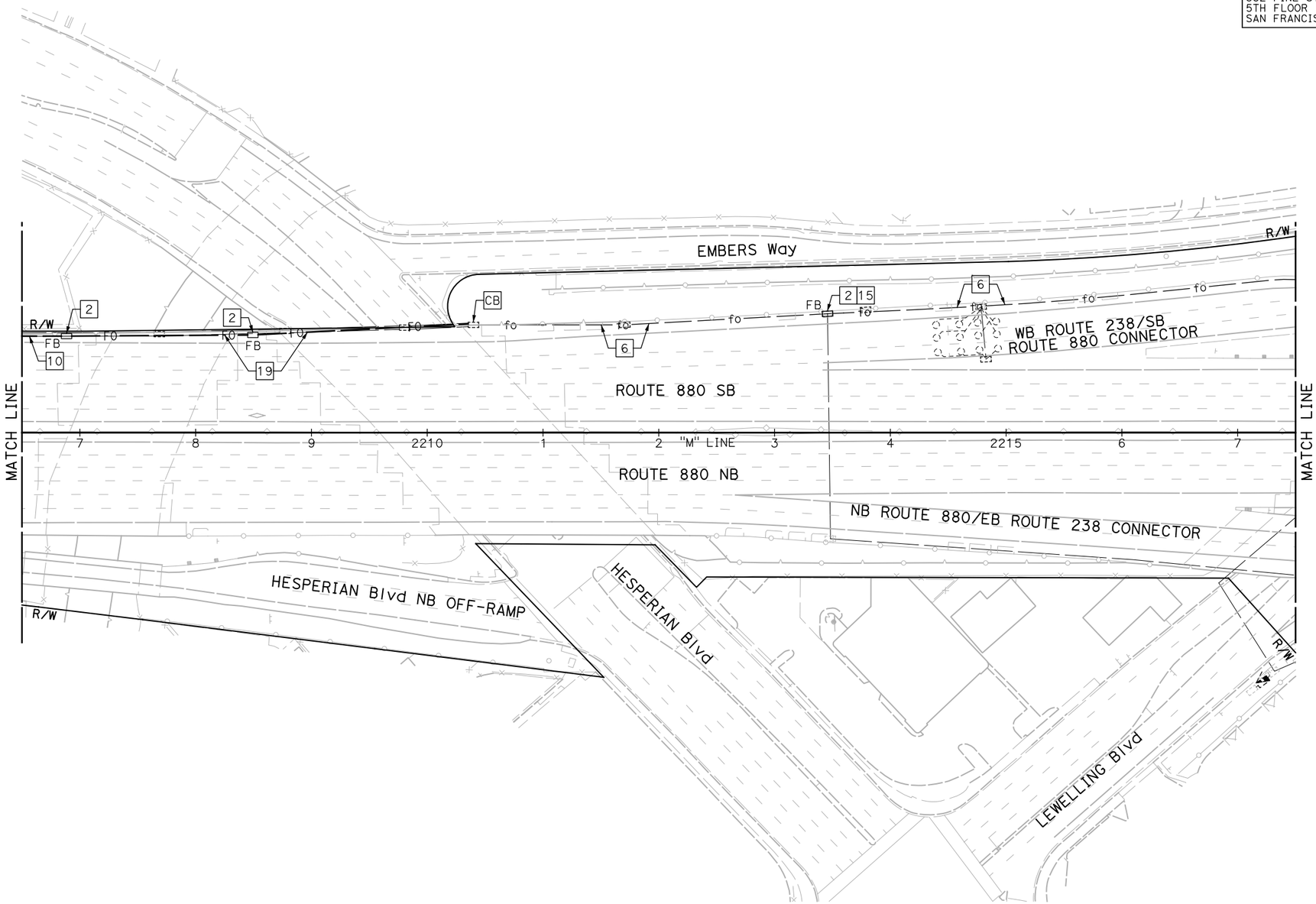
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-89

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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LAST REVISION | DATE PLOTTED => 5/25/2015
00-00-00 | TIME PLOTTED => 12:24:38 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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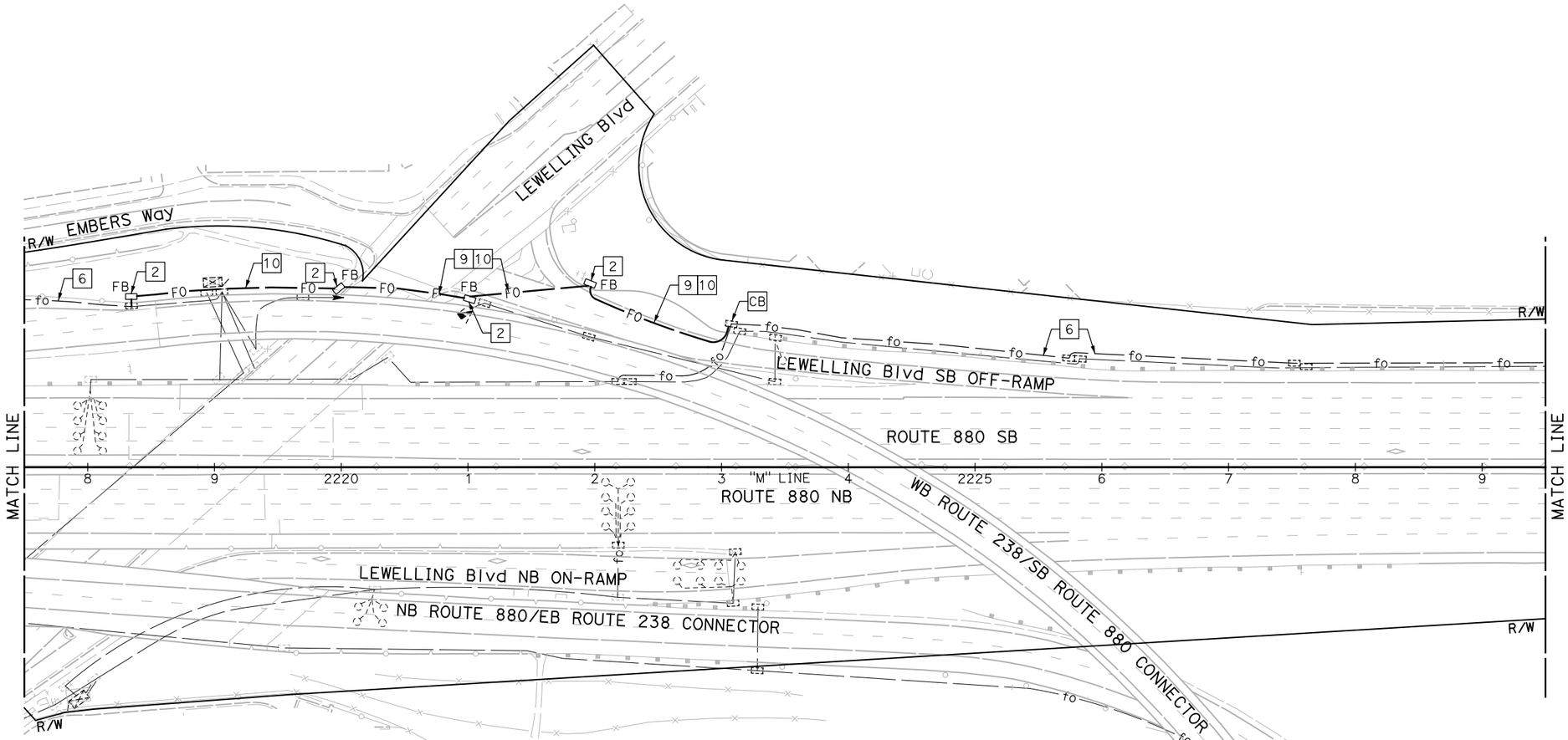
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-90

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION 00-00-00 DATE PLOTTED => 5/25/2015 TIME PLOTTED => 12:26:22 AM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua090.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
ELECTRICAL
STATE OF CALIFORNIA

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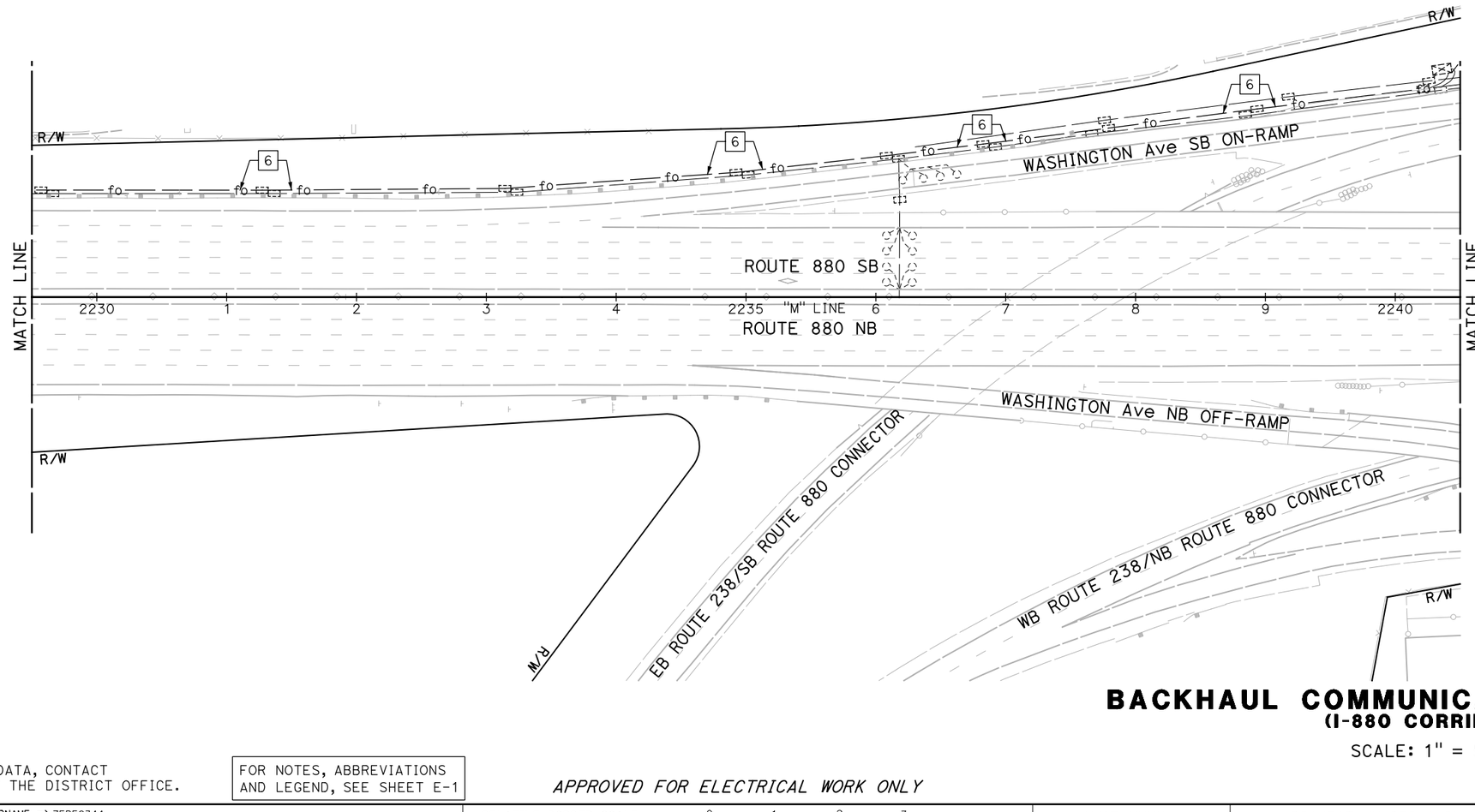
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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

APPROVED FOR ELECTRICAL WORK ONLY

E-91

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ua091.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:27:56 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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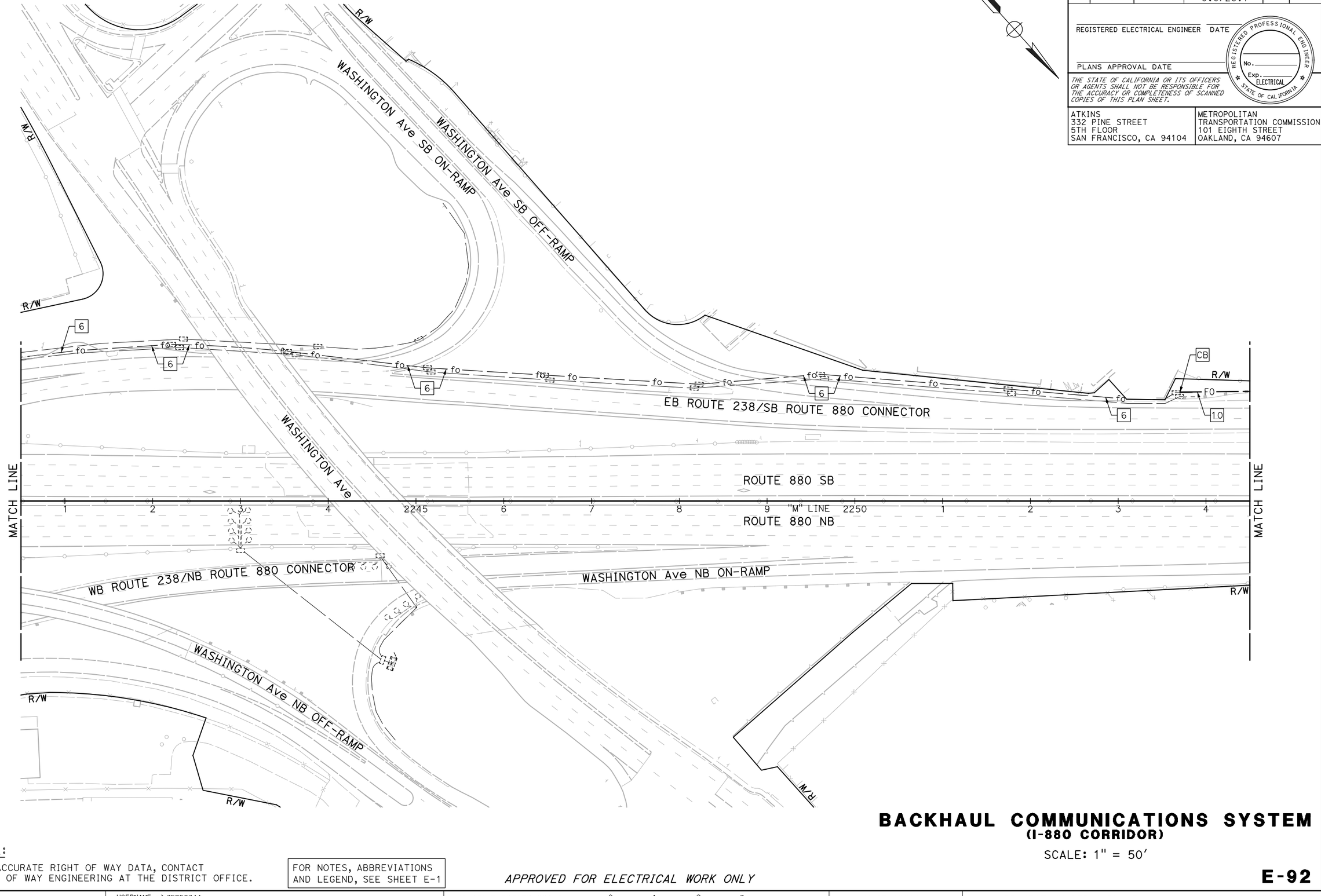
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-92

REVISED BY | DATE REVISED

JOEY PASKEY | KEVIN AGUIGUI

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION | DATE PLOTTED => 5/25/2015
00-00-00 | TIME PLOTTED => 12:29:36 AM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua092.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
ELECTRICAL
STATE OF CALIFORNIA

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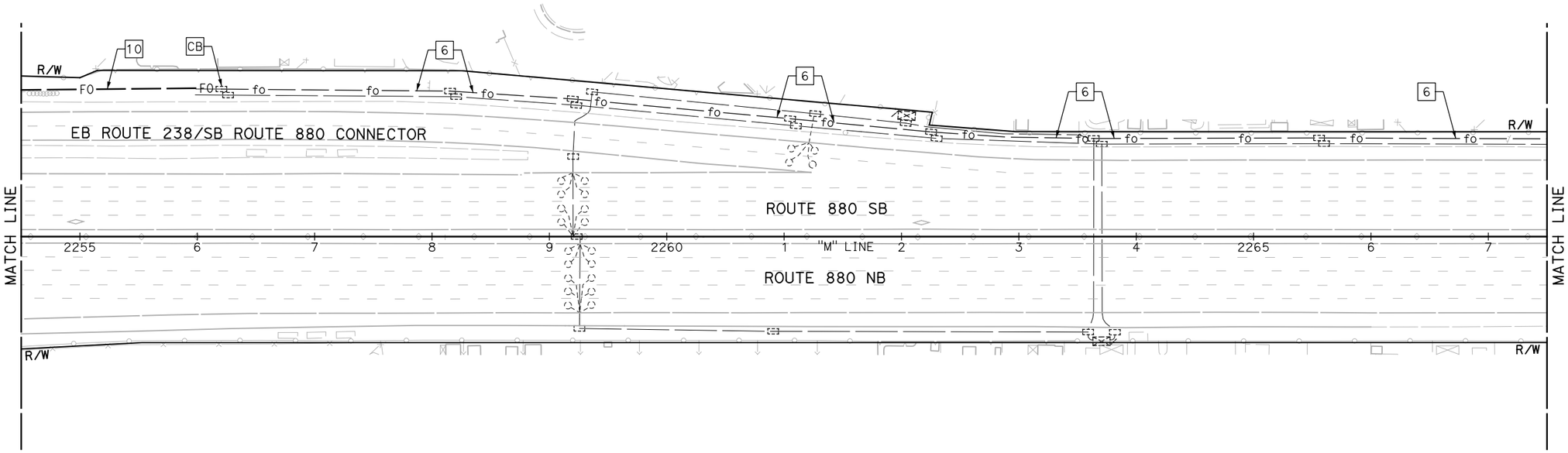
5TH FLOOR
SAN FRANCISCO, CA 94104

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 E-1

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-93

REVISED BY | DATE REVISED

JOEY PASKEY | KEVIN AGUIGUI

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION | DATE PLOTTED => 5/25/2015
00-00-00 | TIME PLOTTED => 12:31:13 AM

c:\pw_work\atknacc01\zere2344\dms01003\ua093.dgn

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua093.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp. ELECTRICAL
STATE OF CALIFORNIA

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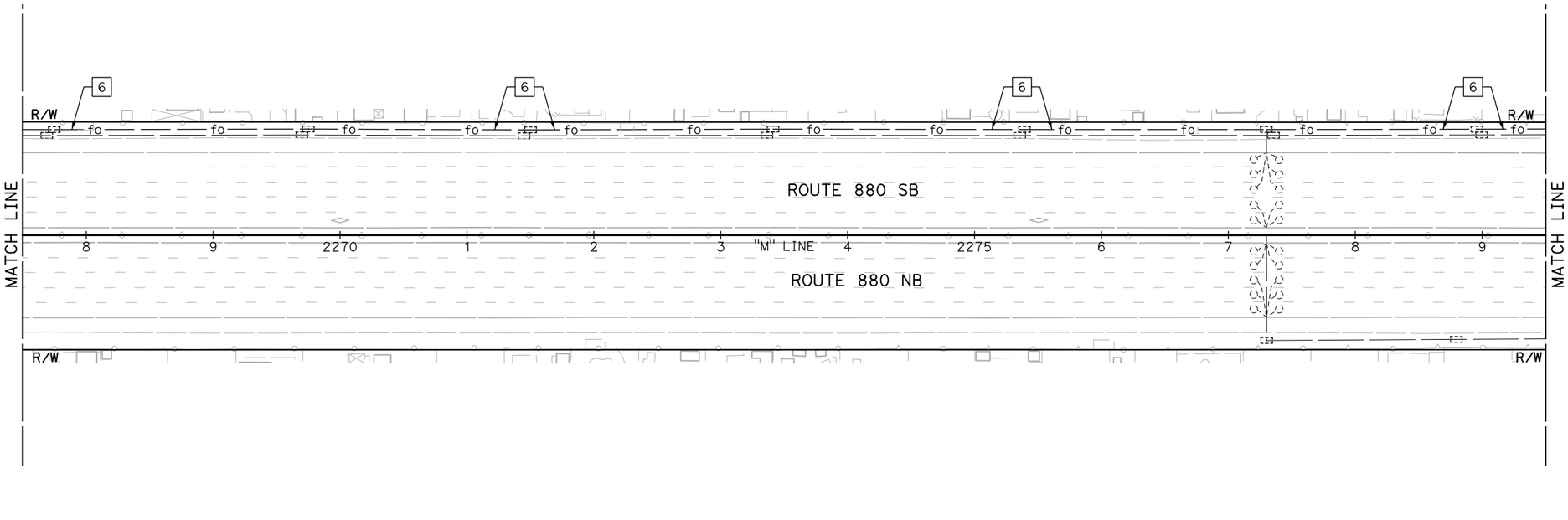
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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 E-1

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-94

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ua094.dgn

LAST REVISION 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:32:46 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
ELECTRICAL
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 E-1

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-95

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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LAST REVISION 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:34:19 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

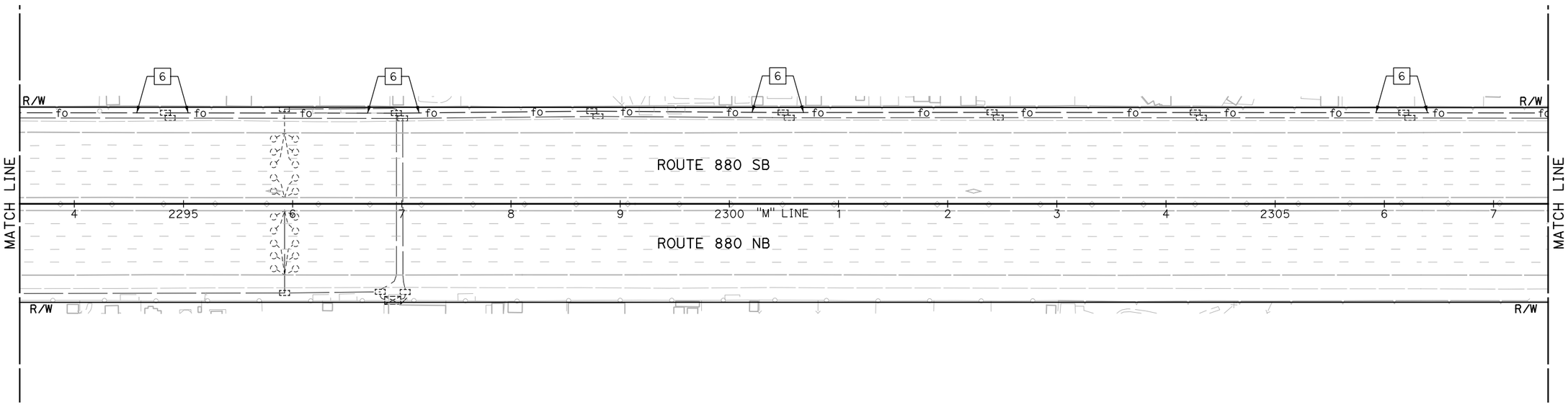
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL 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



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
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-96

REVISED BY	DATE REVISED
JOEY PASKEY	
KEVIN AGUIGUI	
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 => 5/25/2015
TIME PLOTTED => 12:35:51 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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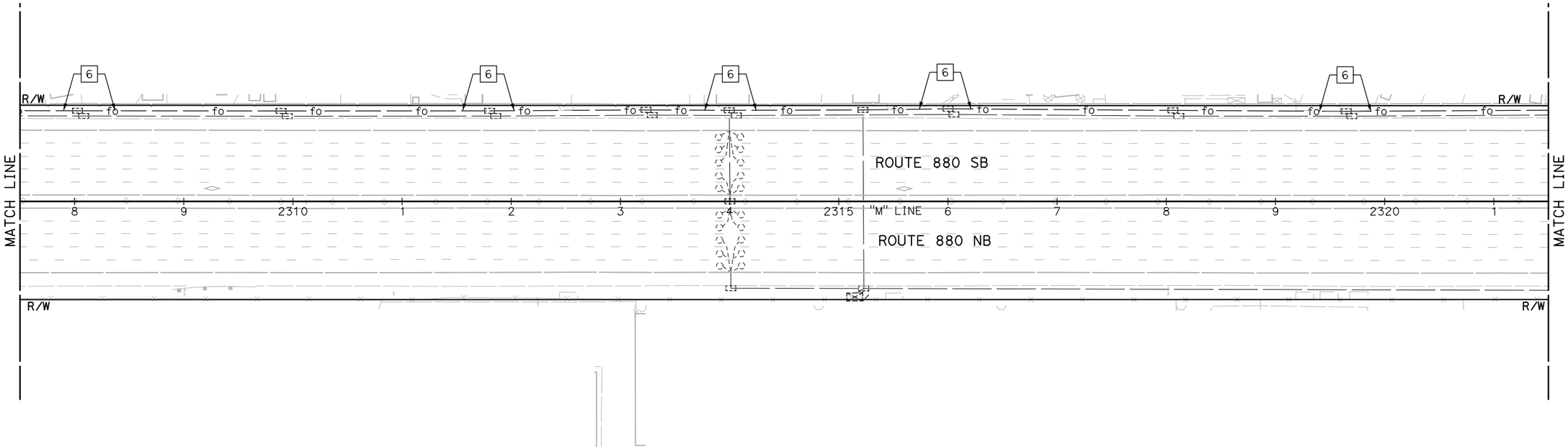
5TH FLOOR
SAN FRANCISCO, CA 94104

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 E-1

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-97

CALCULATED-DESIGNED BY	JOEY PASKEY
CHECKED BY	KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR	KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans

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LAST REVISION DATE PLOTTED => 5/25/2015
00-00-00 TIME PLOTTED => 12:37:28 AM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua097.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
ELECTRICAL
STATE OF CALIFORNIA

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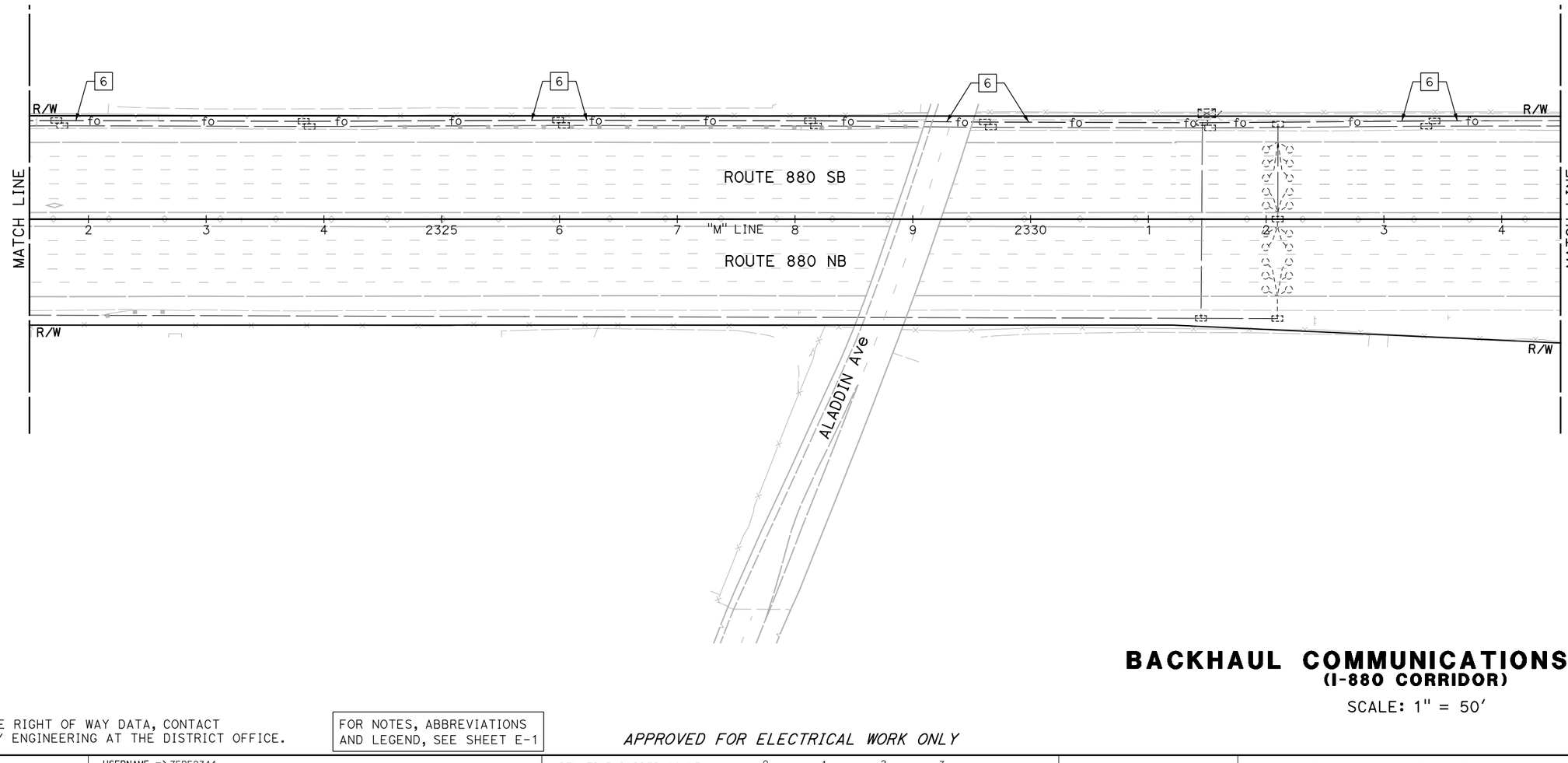
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-98

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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REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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LAST REVISION | DATE PLOTTED => 5/25/2015
00-00-00 | TIME PLOTTED => 12:39:04 AM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua098.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
ELECTRICAL
STATE OF CALIFORNIA

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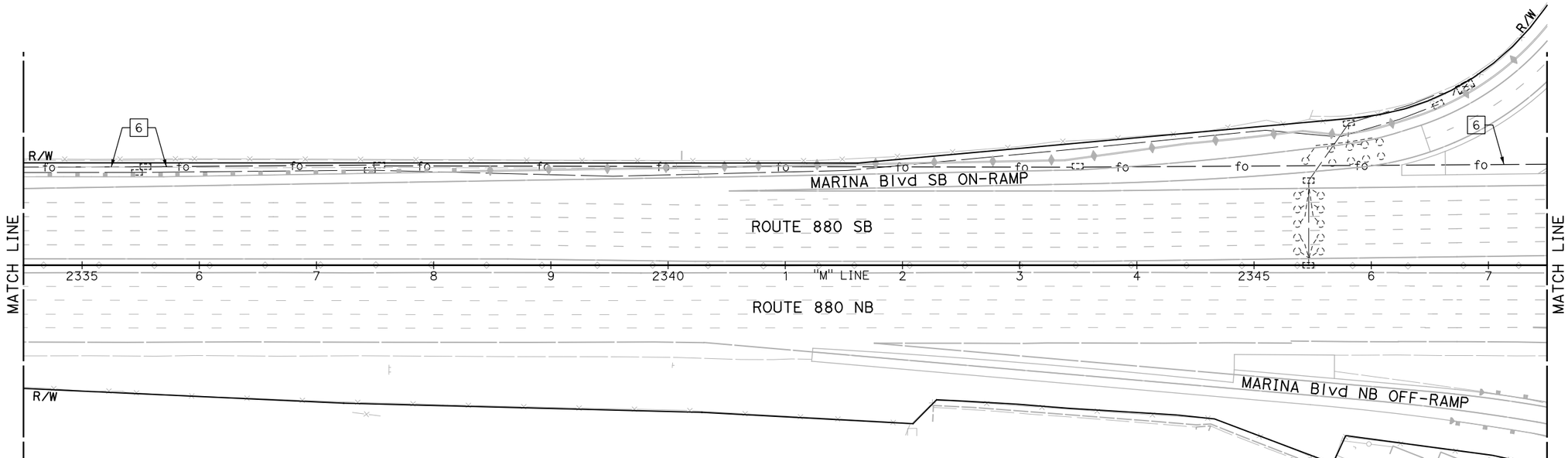
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-99

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:40:37 AM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua099.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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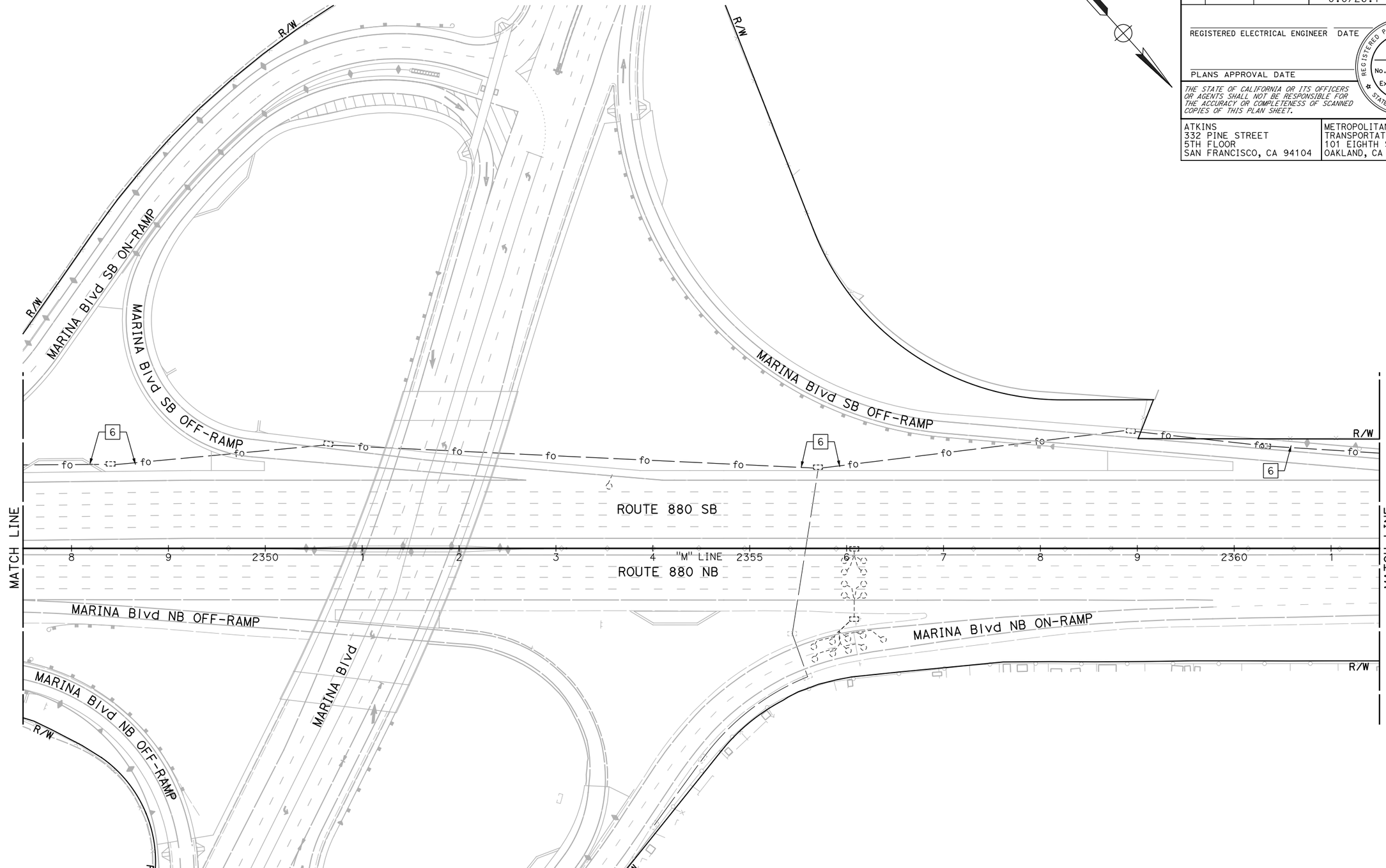
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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 E-1

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-100

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:42:11 AM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

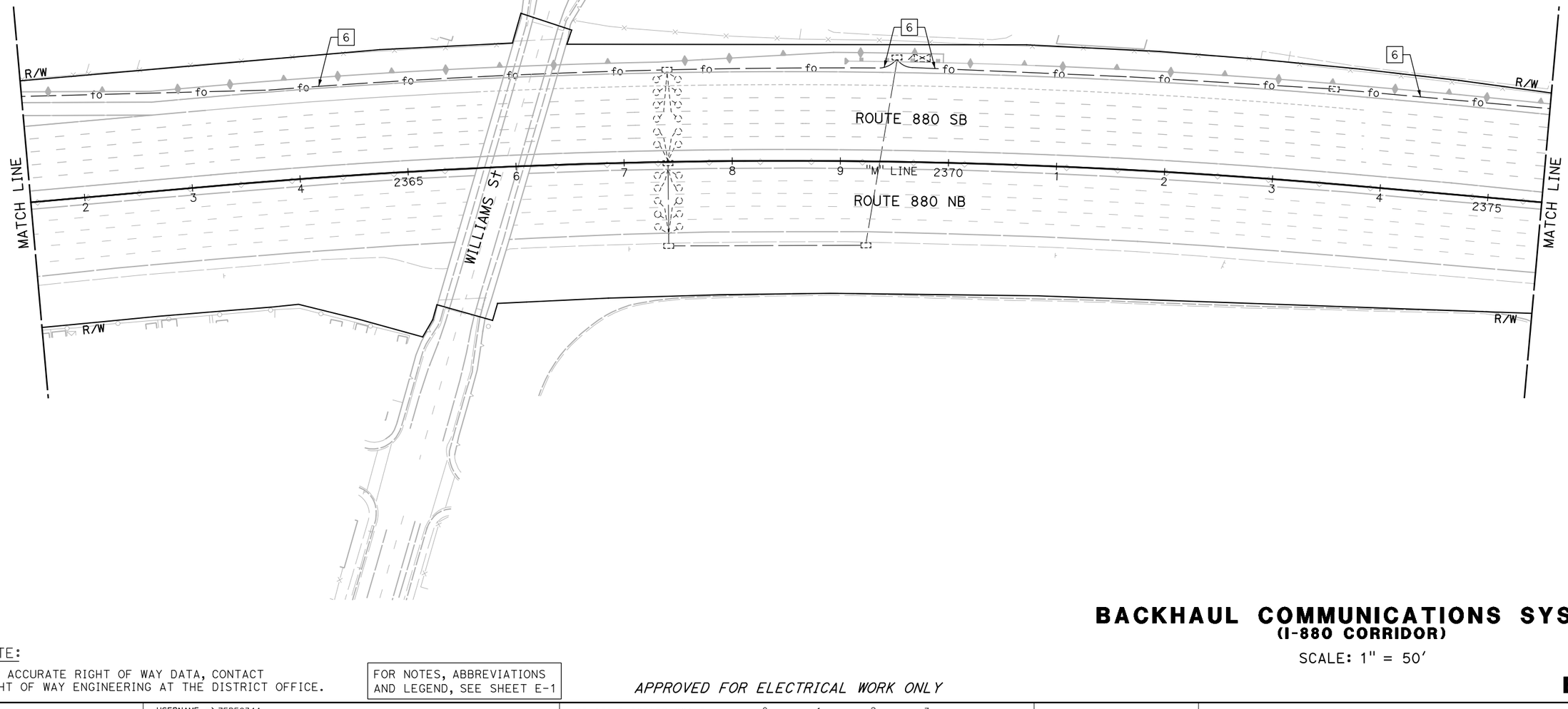
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL 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



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

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-101

REVISED BY	DATE REVISED
JOEY PASKEY	00-00-00
KEVIN AGUIGUI	

CALCULATED-DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:43:47 AM

c:\pw_work\atknaca01\zere2344\dms01003\ua101.dgn

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua101.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

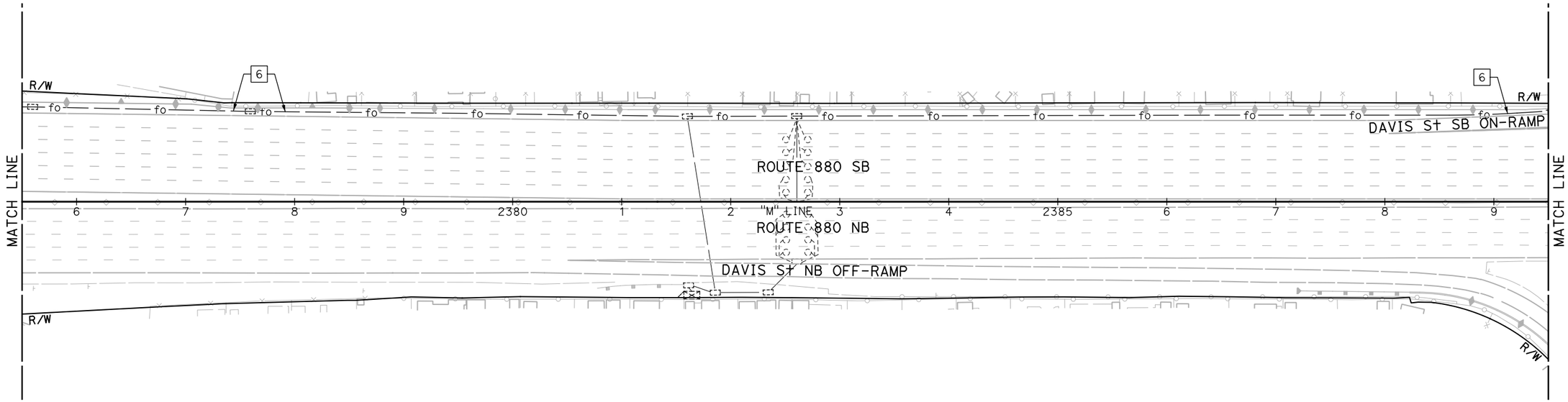
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL 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



BACKHAUL COMMUNICATIONS SYSTEM
(I-880 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-102

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

CALCULATED-DESIGNED BY: JOEY PASKEY

CHECKED BY: KEVIN AGUIGUI

REVISED BY

DATE REVISED

c:\pw_work\atknaca01\zere2344\dms01003\ua102.dgn

LAST REVISION 00-00-00

DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:45:31 AM

BORDER LAST REVISED 10/4/2013

USERNAME => ZERE2344
DGN FILE => ua102.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT XXXX

PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

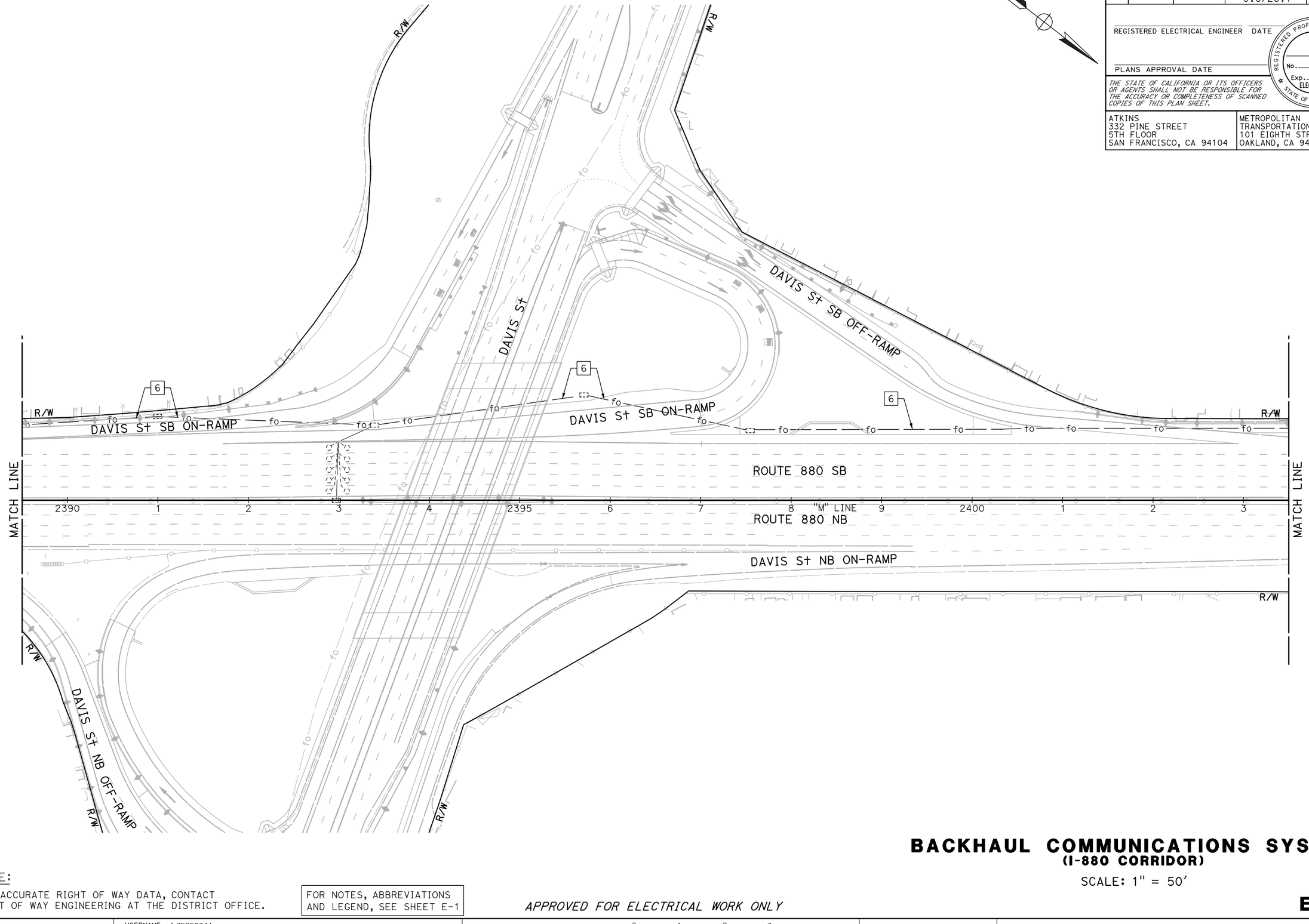
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
ELECTRICAL
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



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

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-103

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY
JOEY PASKEY

CHECKED BY
KEVIN AGUIGUI

CONSULTANT FUNCTIONAL SUPERVISOR
KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ua103.dgn

LAST REVISION: DATE PLOTTED => 5/25/2015
00-00-00 TIME PLOTTED => 12:47:02 AM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua103.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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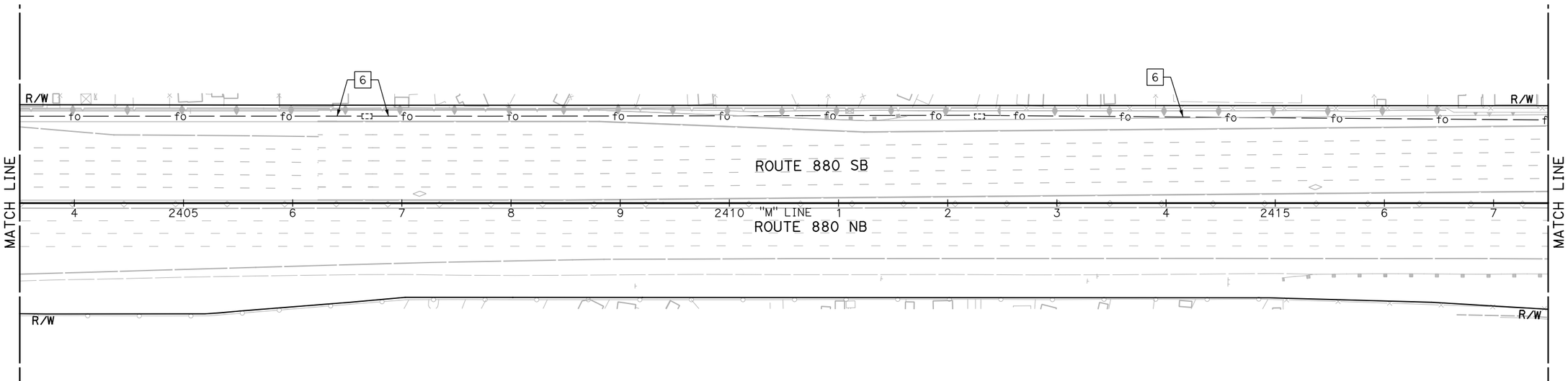
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

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 E-1

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-104

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua104.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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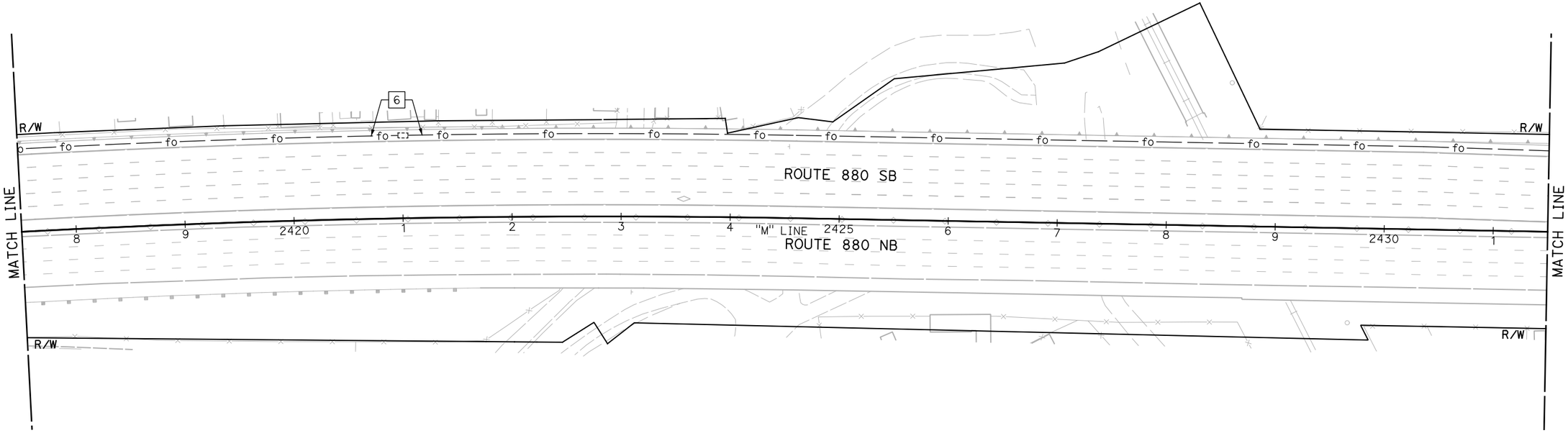

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

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-105

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

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua105.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

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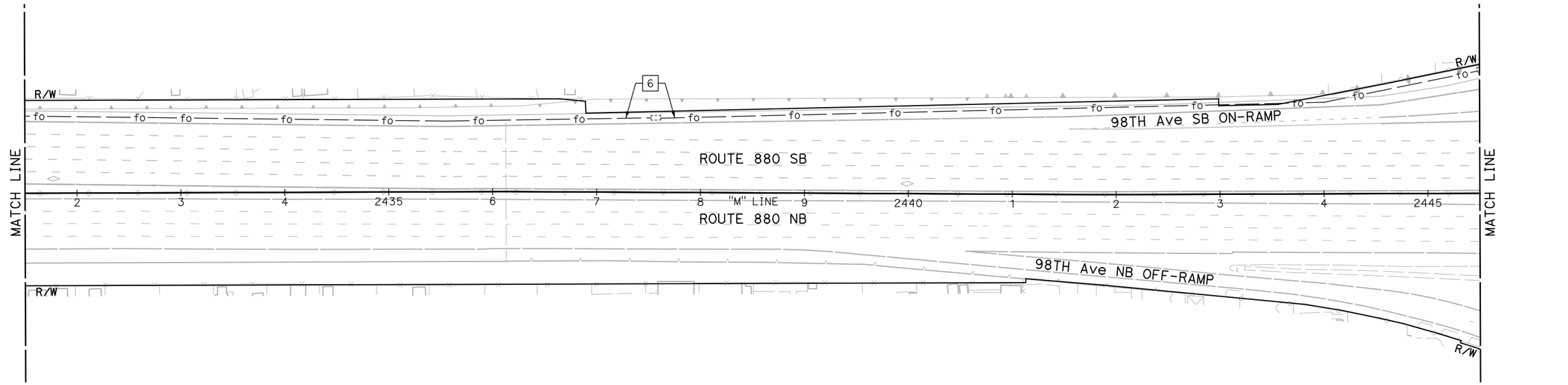

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-106

NOTE:

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DATE REVISED	KEVIN AGUIGUI	CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR	KAI CHAN	

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua106.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

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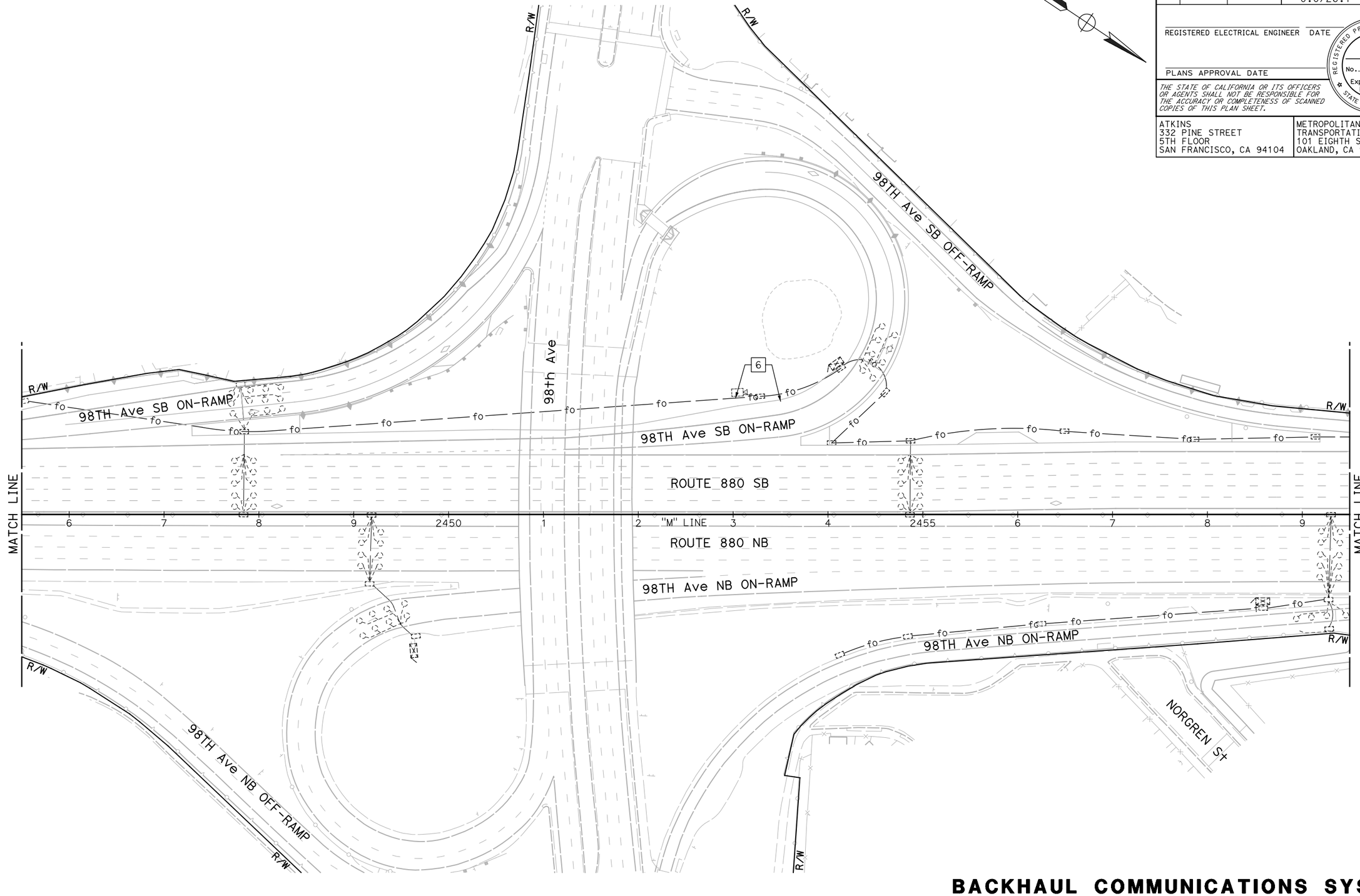

NOTE:

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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-107

REVISED BY	DATE REVISED

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CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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LAST REVISION: 00-00-00
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TIME PLOTTED => 12:53:12 AM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua107.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

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REGISTERED PROFESSIONAL ENGINEER
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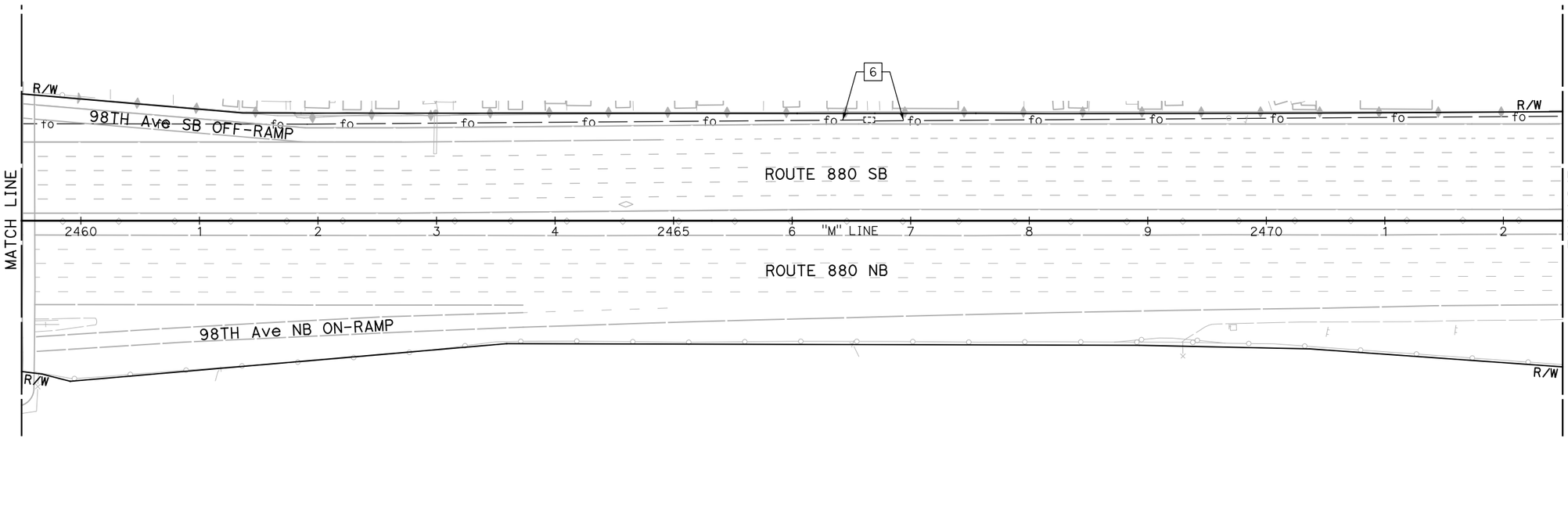

NOTE:

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

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-108

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
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LAST REVISION 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:54:53 AM

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BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ua108.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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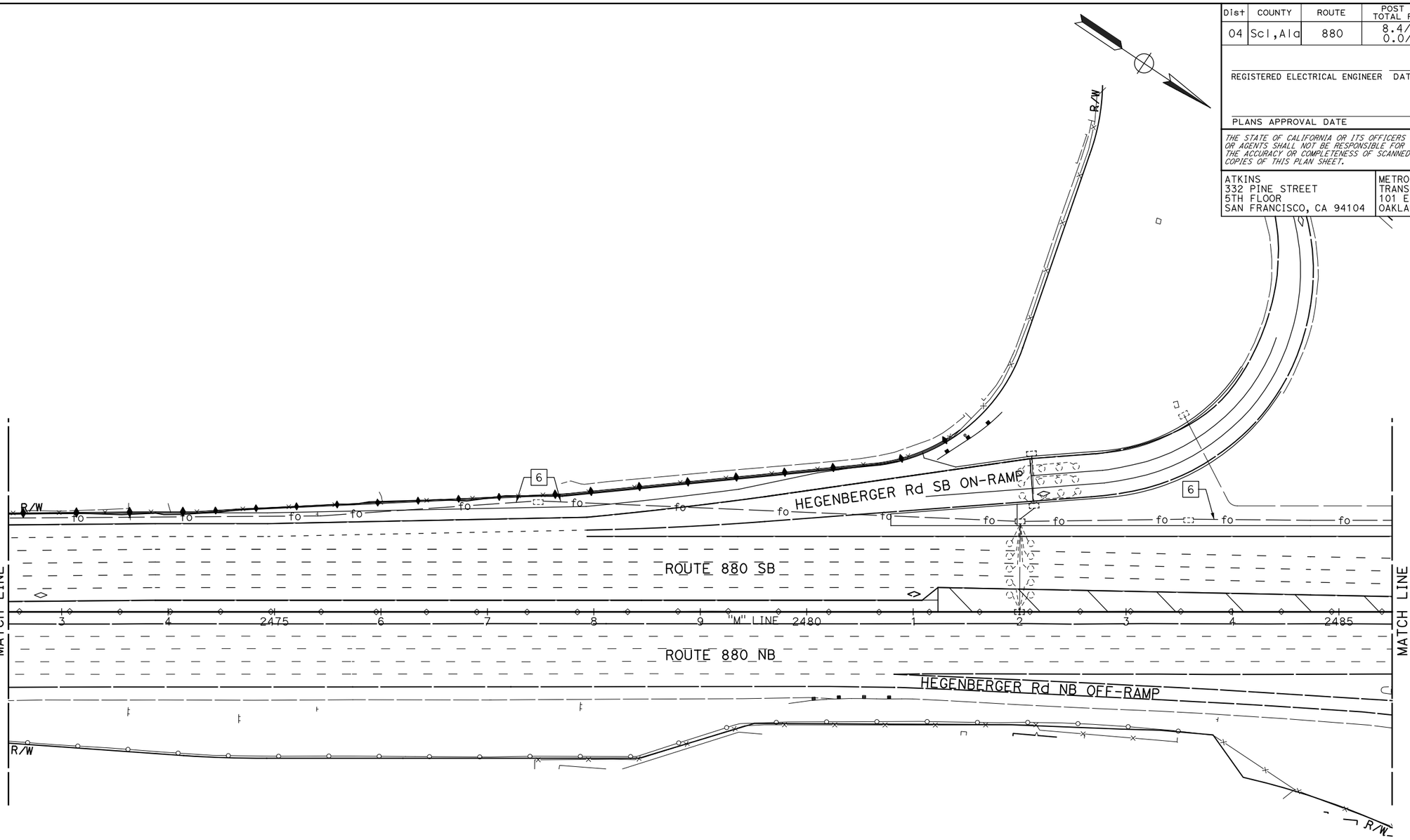

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-109

NOTE:

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

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CONSULTANT FUNCTIONAL SUPERVISOR	KAI CHAN	
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TIME PLOTTED => 12:56:51 AM
00-00-00

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 DGN FILE => ua109.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

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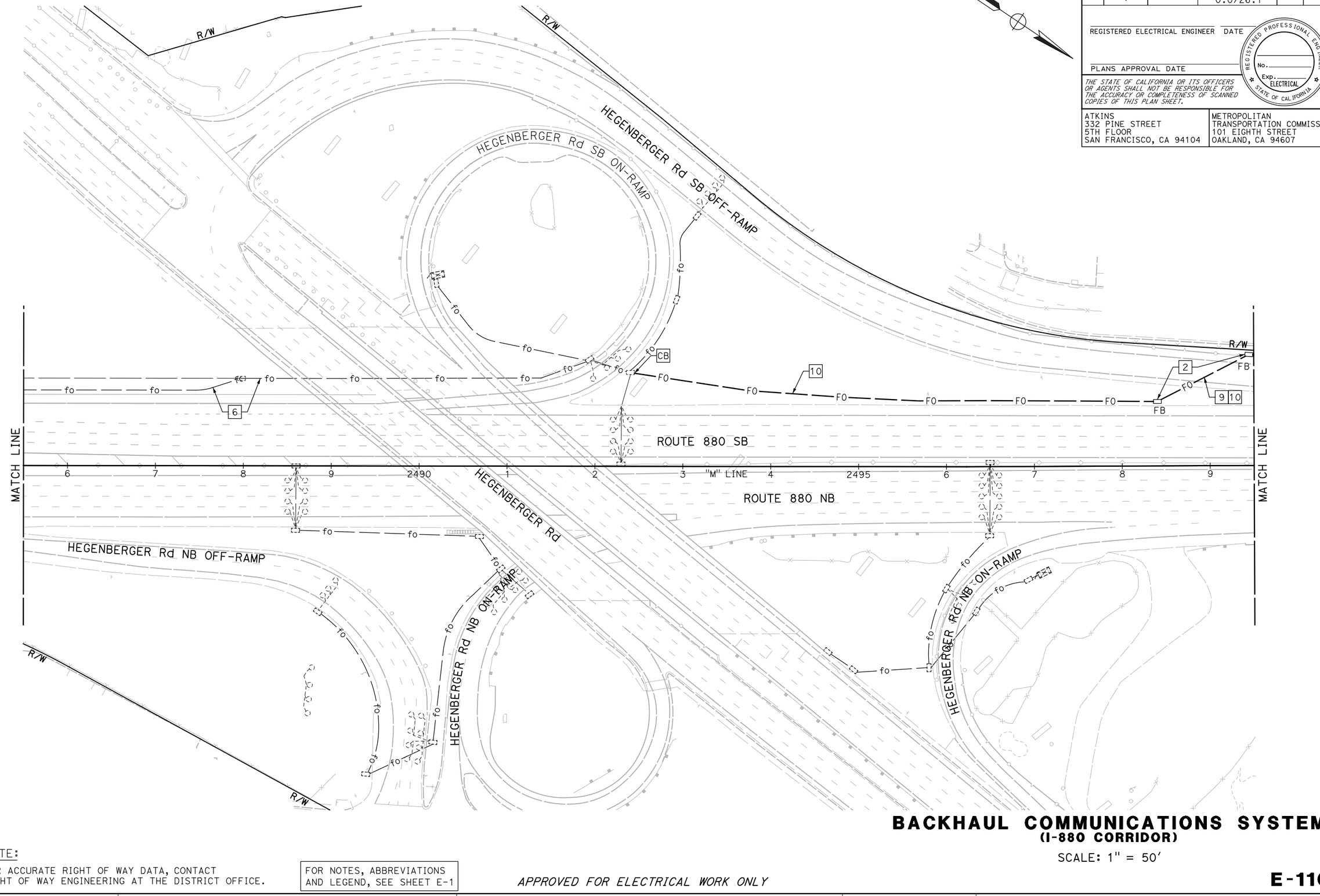

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BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

E-110

REVISED BY	DATE REVISED

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CHECKED BY: KEVIN AGUIGUI
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LAST REVISION 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 12:58:40 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl, Ala	880	8.4/10.5 0.0/26.1	XX	XX

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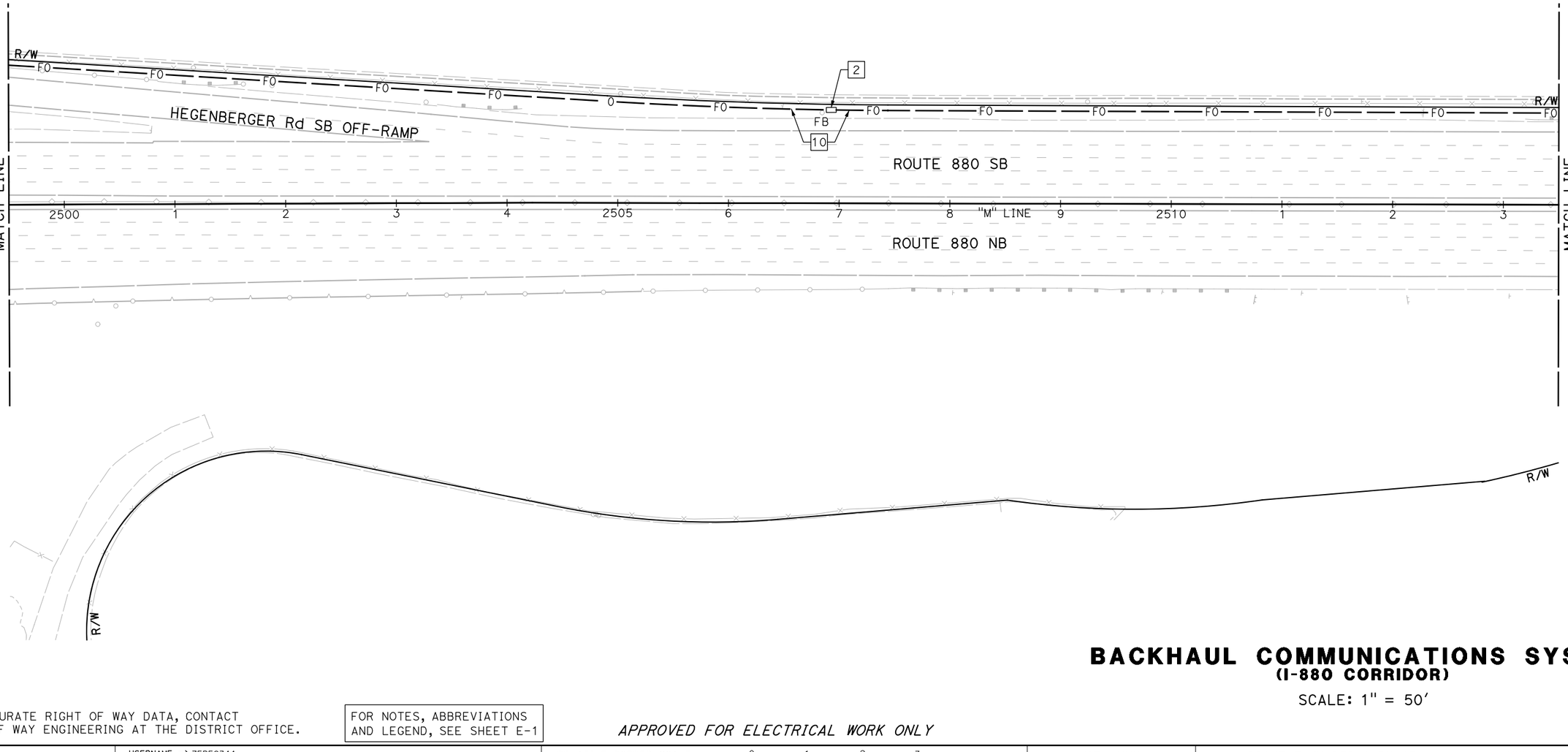

BACKHAUL COMMUNICATIONS SYSTEM
(I-880 CORRIDOR)

SCALE: 1" = 50'

NOTE:

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E-111

REVISED BY	DATE REVISED
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DATE PLOTTED => 5/25/2015
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

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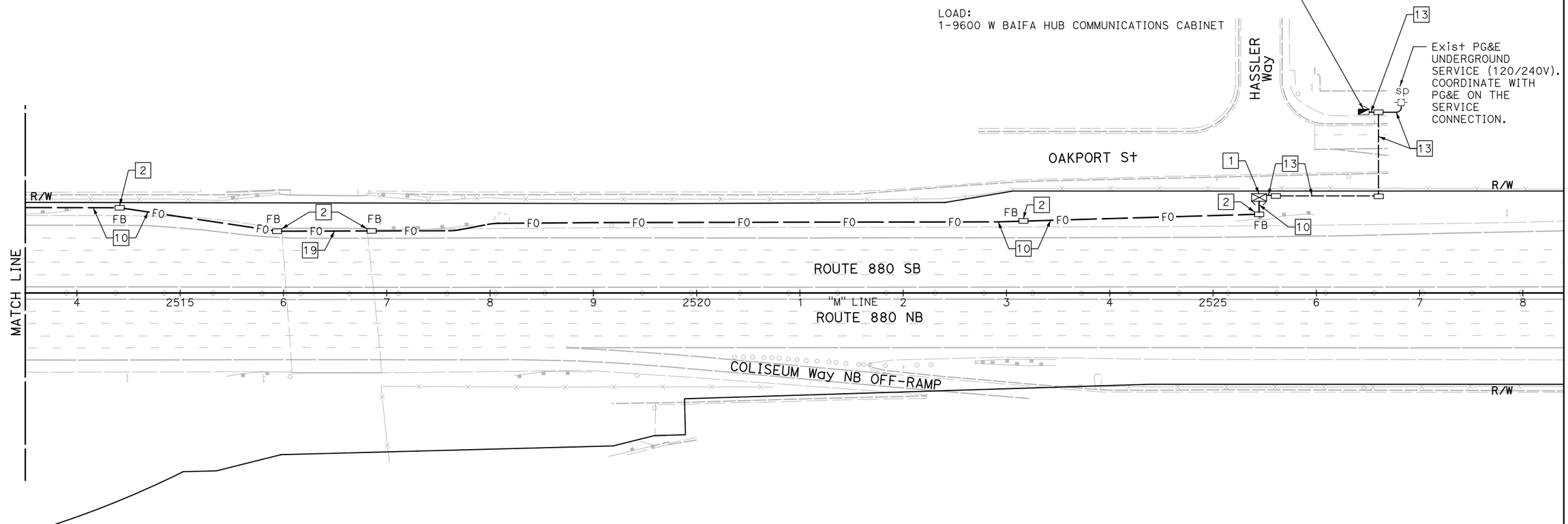
OAKLAND, CA 94607

16 INSTALL TYPE III-AF SERVICE EQUIPMENT ENCLOSURE
PROVIDE ITEMS (1) THROUGH (12)
FRONT DOOR SHALL FACE WEST

LOAD:
1-9600 W BAIFA HUB COMMUNICATIONS CABINET



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

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BACKHAUL COMMUNICATIONS SYSTEM
(HEGENBERGER HUB)

SCALE: 1" = 50'

E-112

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
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TIME PLOTTED => 11:02:12 AM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua112.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER _____ DATE _____

PLANS APPROVAL DATE _____

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101 EIGHTH STREET
OAKLAND, CA 94607

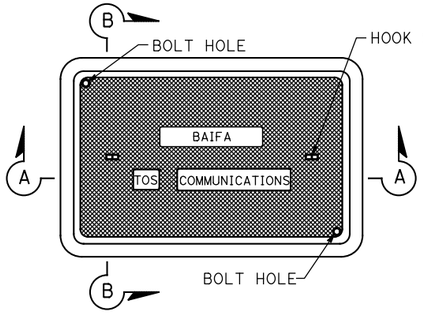
NOTES: (THIS SHEET ONLY)

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 $\frac{3}{8}$" 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 $\frac{3}{8}$" MORE THAN THE COMBINED CONDUIT WIDTH.
10. CONDUIT FROM THE TYPICAL BORE OR TRENCH SECTION SHOULD NOT DEFLECT BY MORE THAN $1\frac{5}{32}$ 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-117.

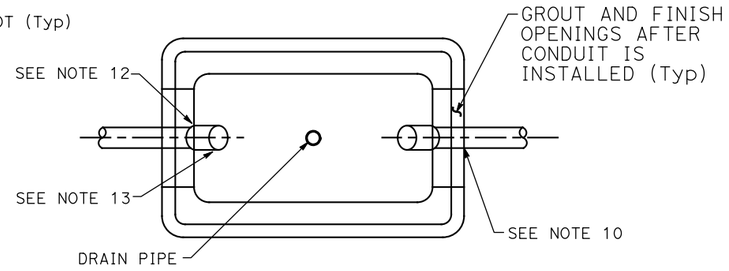
NOTES: (THIS SHEET ONLY)

(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.

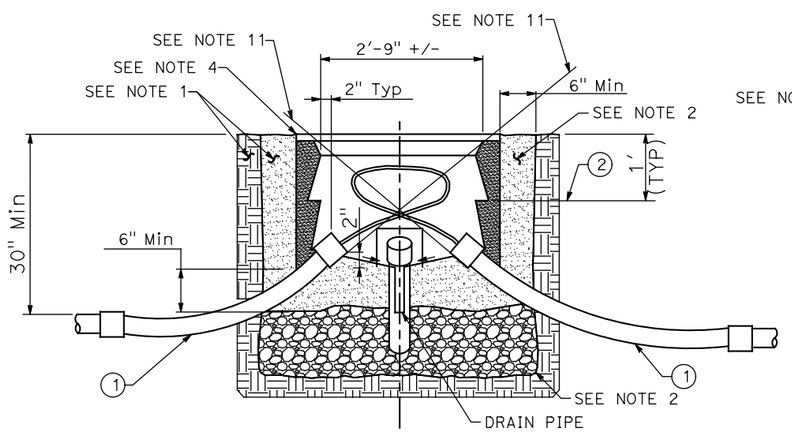
(2) WARNING TAPE (FOR NEW CONDUIT IF INSTALLED BY TRENCHING).



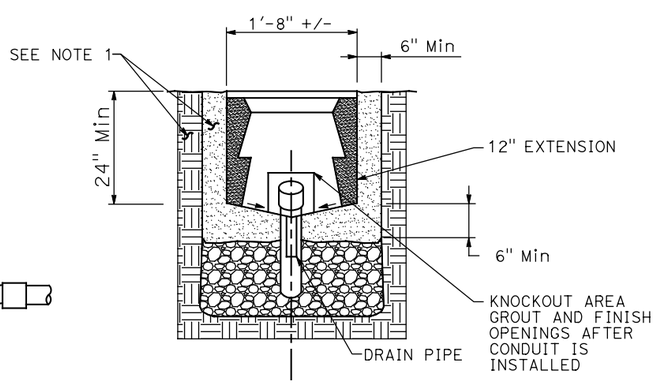
PLAN VIEW



PLAN VIEW WITHOUT COVER



SECTION A-A



SECTION B-B

ELECTRICAL DETAILS
(FIBER OPTIC PULL BOX)

NO SCALE

E-113

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI
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	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. ELECTRICAL — STATE OF CALIFORNIA

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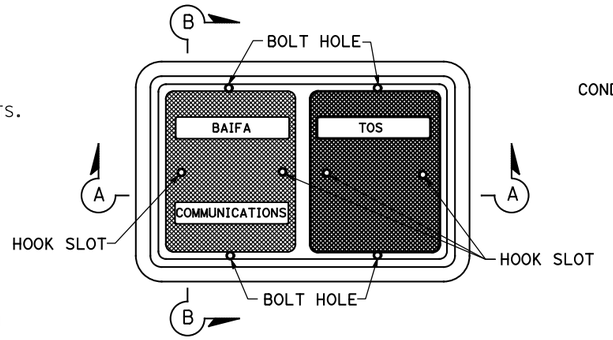
METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607

NOTES: (THIS SHEET ONLY)

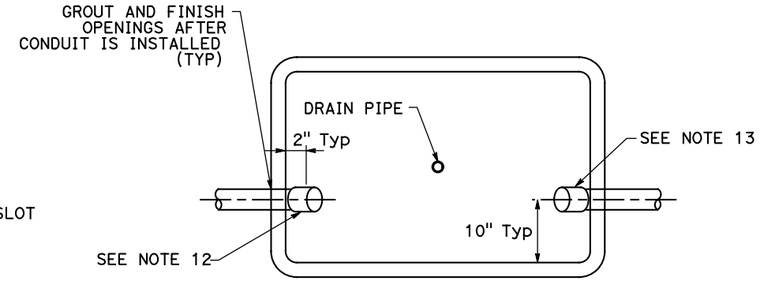
1. BACKFILL ACCORDING TO CALTRANS STANDARD SPECIFICATION, SECTION 19, CONCRETE SHOULD BE PLACED AROUND AND UNDER VAULT (6" MINIMUM) AND SHOULD CONTAIN A MINIMUM OF 550 lbs OF PORTLAND CEMENT PER CUBIC YARD.
2. PORTLAND CEMENT CONCRETE FLOOR OVER CLEAN CRUSHED ROCK SUMP AS PER CALTRANS STANDARD DETAIL 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 ⅜" 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 ⅜" 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-117

LEGEND:

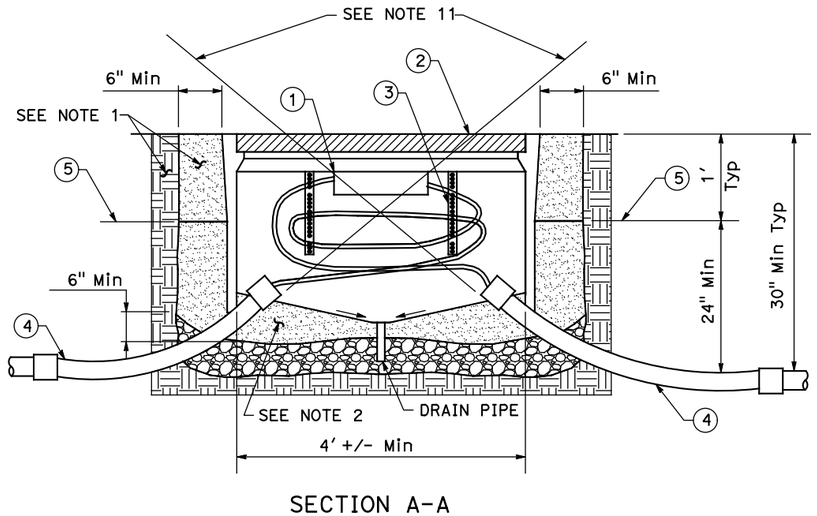
1. FIBER OPTIC SPLICE ENCLOSURE.
2. FIBER OPTIC SPLICE VAULT COVER.
3. RACK & HOOK ASSEMBLY, SEE NOTE 15
4. 45 DEGREE ELBOW, 3′ RADIUS MIN. ELBOW AND COUPLING MAY NOT BE NECESSARY FOR CONDUIT INSTALLED BY DIRECTIONAL BORING CONDUIT INSTALLED BY DIRECTIONAL DRILLING SHALL ENTER PULLBOX WITH A BENDING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



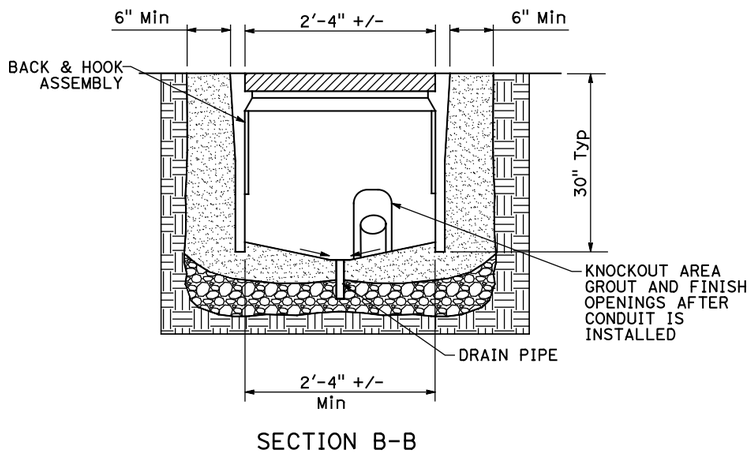
PLAN VIEW



PLAN VIEW WITHOUT COVER



SECTION A-A



SECTION B-B

ELECTRICAL DETAILS
(FIBER OPTIC SPLICE VAULT)

NO SCALE

E-114

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI

CALCULATED-DESIGNED BY

CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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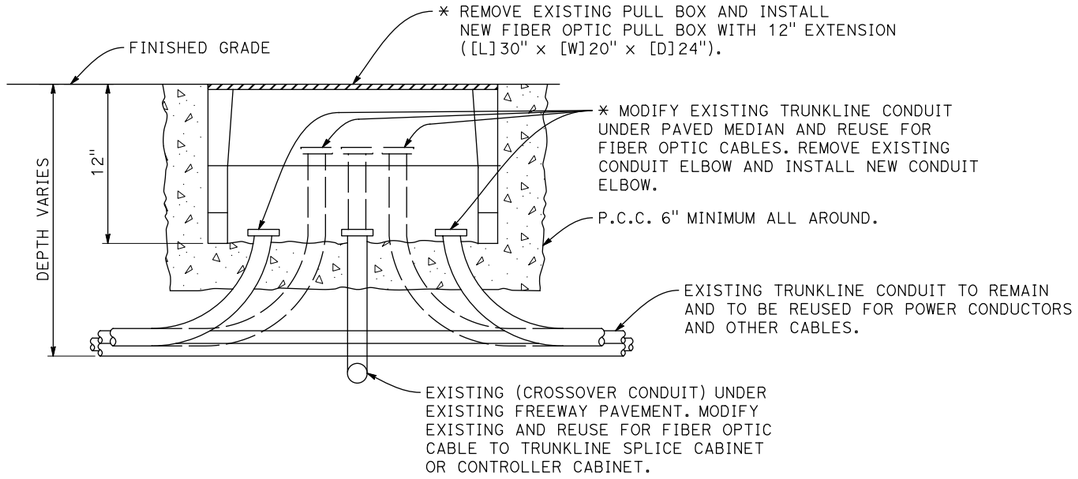
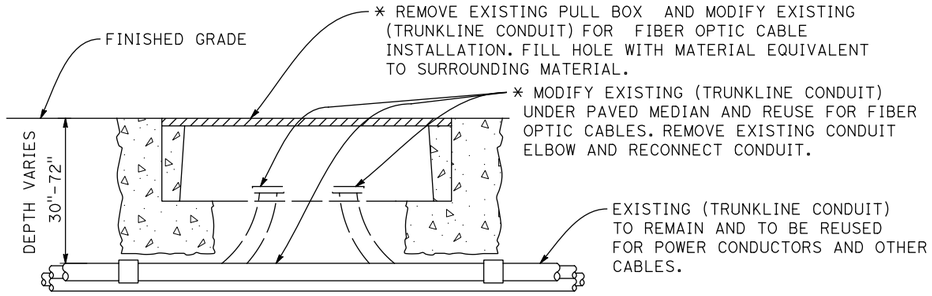


* DO NOT DAMAGE EXISTING TRUNKLINE CONDUIT RUNS. ALL EXISTING TRUNKLINE CONDUIT RUNS WERE INSTALLED IN THE SAME TRENCH UNDER MEDIAN PAVEMENT. MODIFIED CONDUIT SHALL HAVE A MINIMUM CONDUIT BENDING RADIUS OF 20"

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

E-115

REVISED BY	DATE REVISED

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

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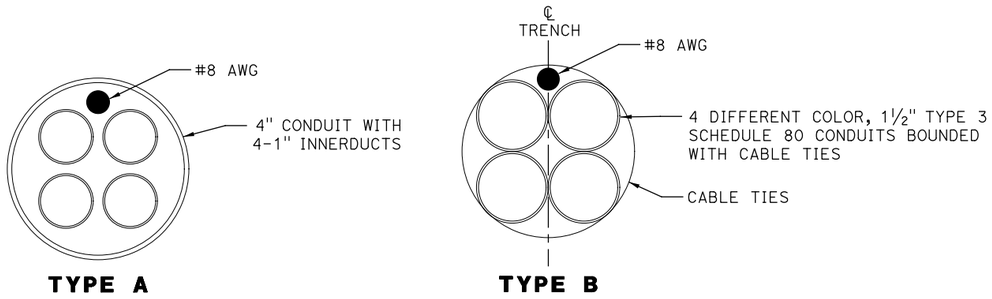
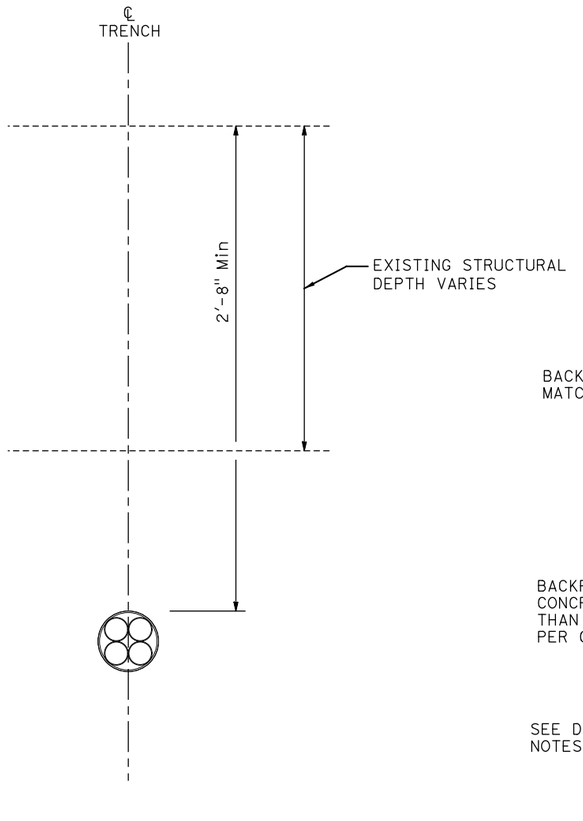
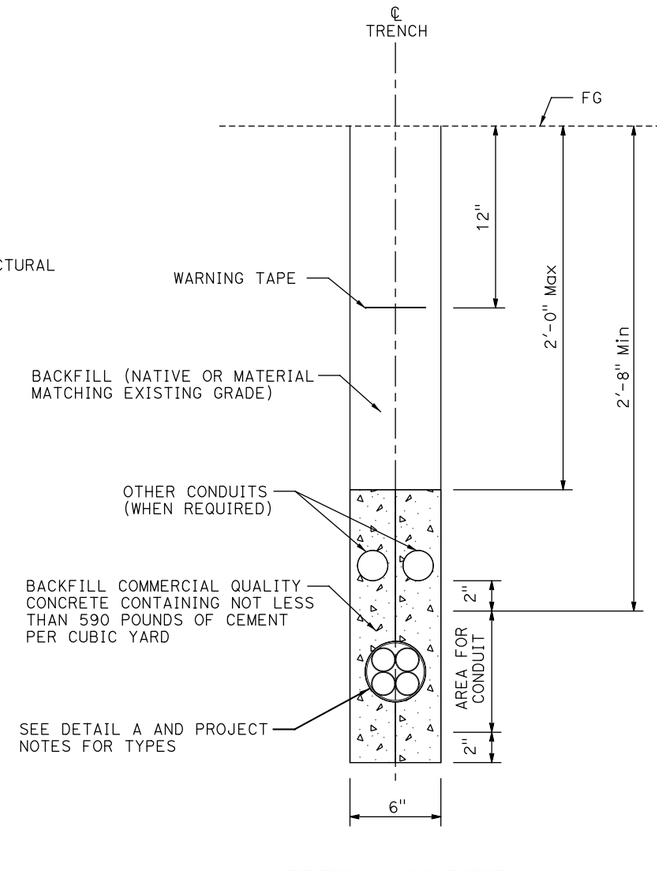


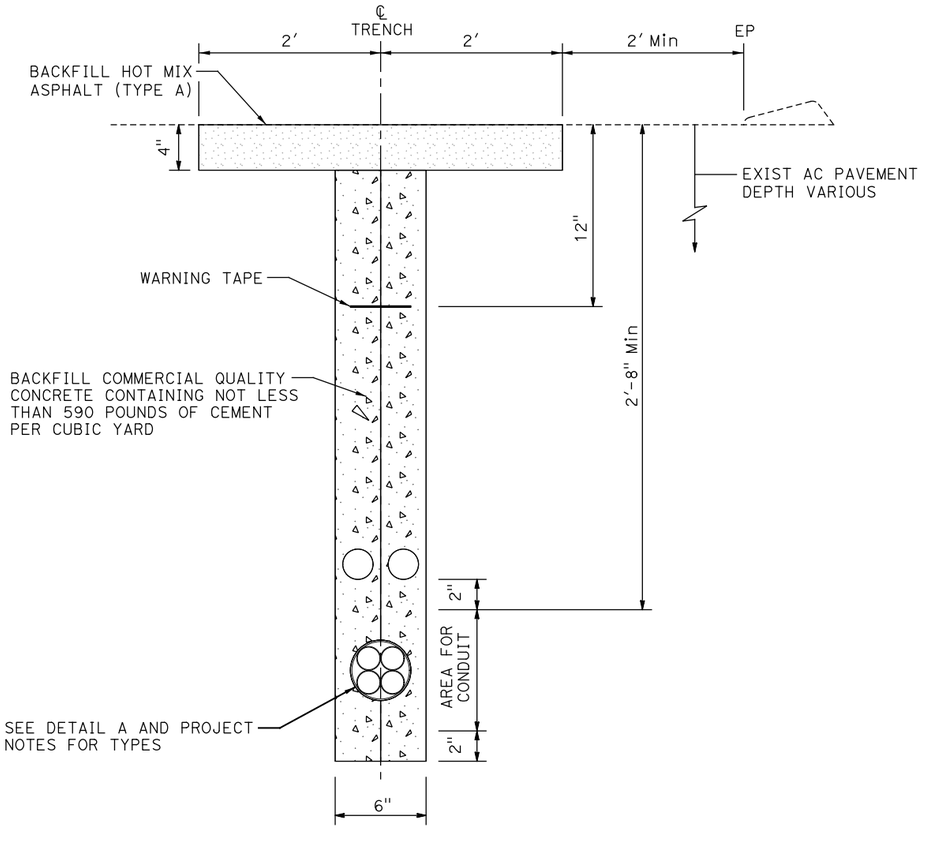
MULTI CONDUIT (Typ)
DETAIL A



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

E-116

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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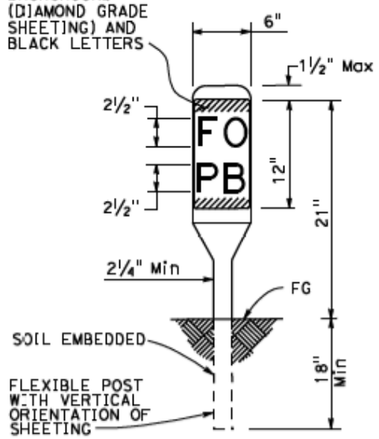
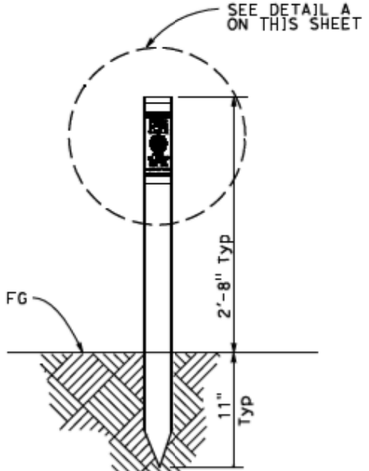
CALTRANS STANDARD TYPE K-2 OBJECT MARKER WITH 6"x12" YELLOW REFLECTIVE BACKGROUND (DIAMOND GRADE SHEETING) AND BLACK LETTERS



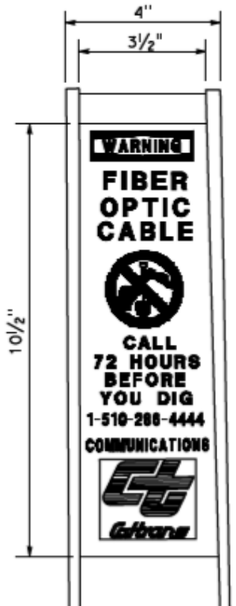
PERMANENT FIBER OPTIC VAULT OR PULL BOX MARKER

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-117

REVISED BY	JOEY PASKEY	
DATE REVISED	KEVIN AGUIGUI	
CALCULATED-DESIGNED BY		
CHECKED BY		
CONSULTANT FUNCTIONAL SUPERVISOR	KAI CHAN	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		

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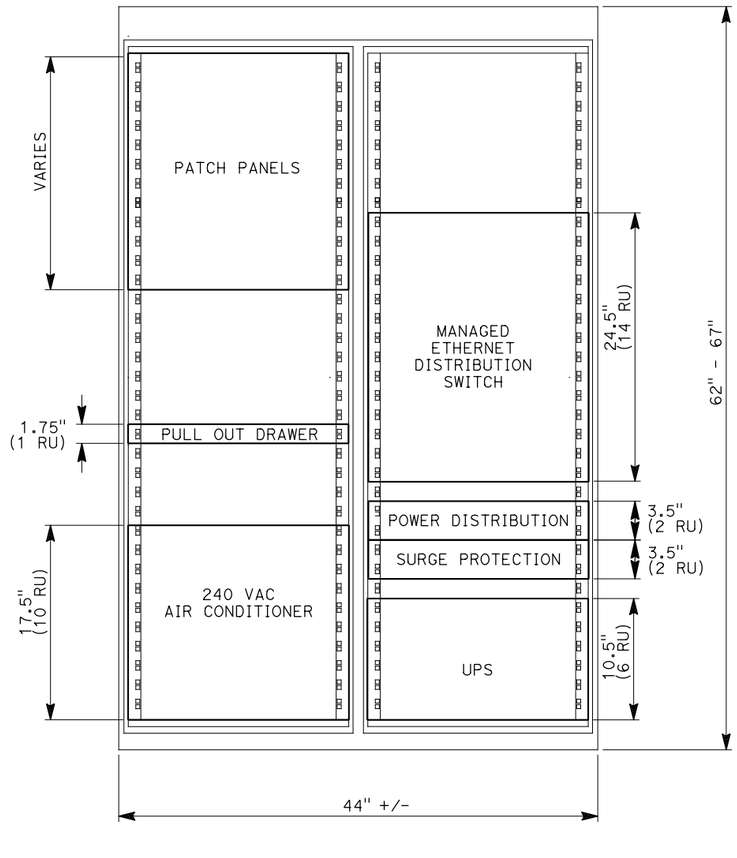
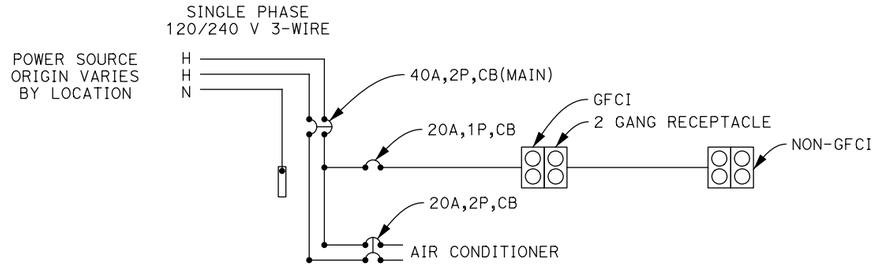
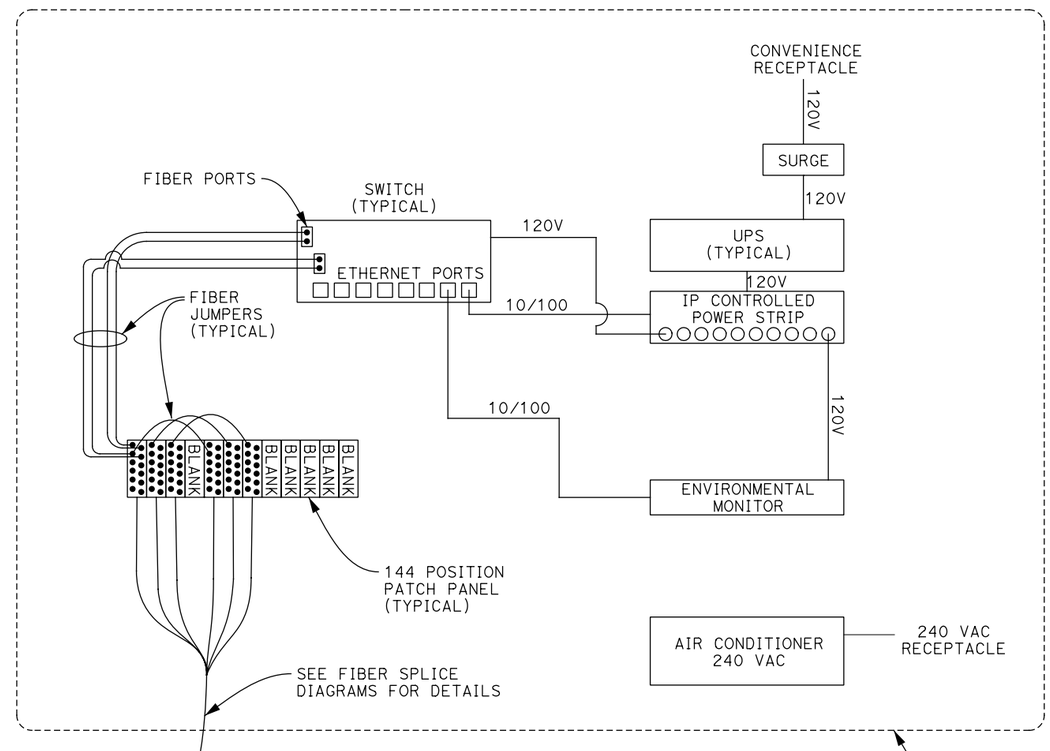




120/240V WIRING DIAGRAM (TYPICAL)



HUB CABINET WIRING DIAGRAM (TYPICAL)

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.

ELECTRICAL DETAILS
(HUB CABINET CONTENTS DETAIL)

NO SCALE

E-118

REVISED BY | DATE REVISED
JOEY PASKEY | KEVIN AGUIGUI
CALCULATED-DESIGNED BY | CHECKED BY
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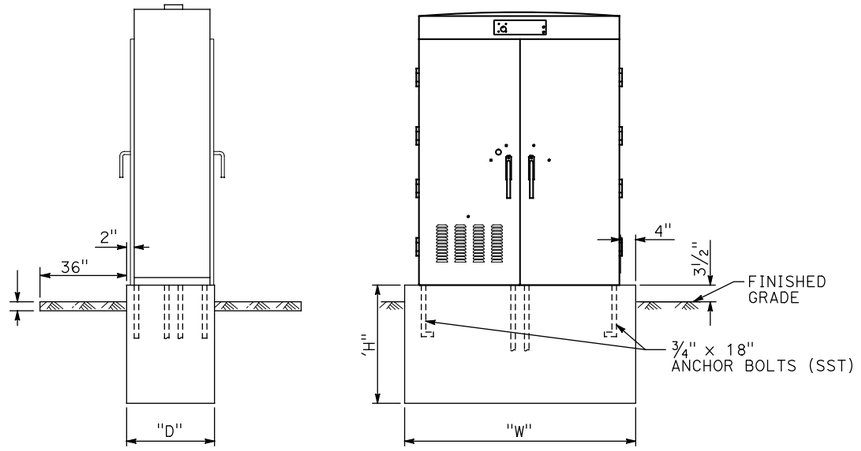
NOTES:

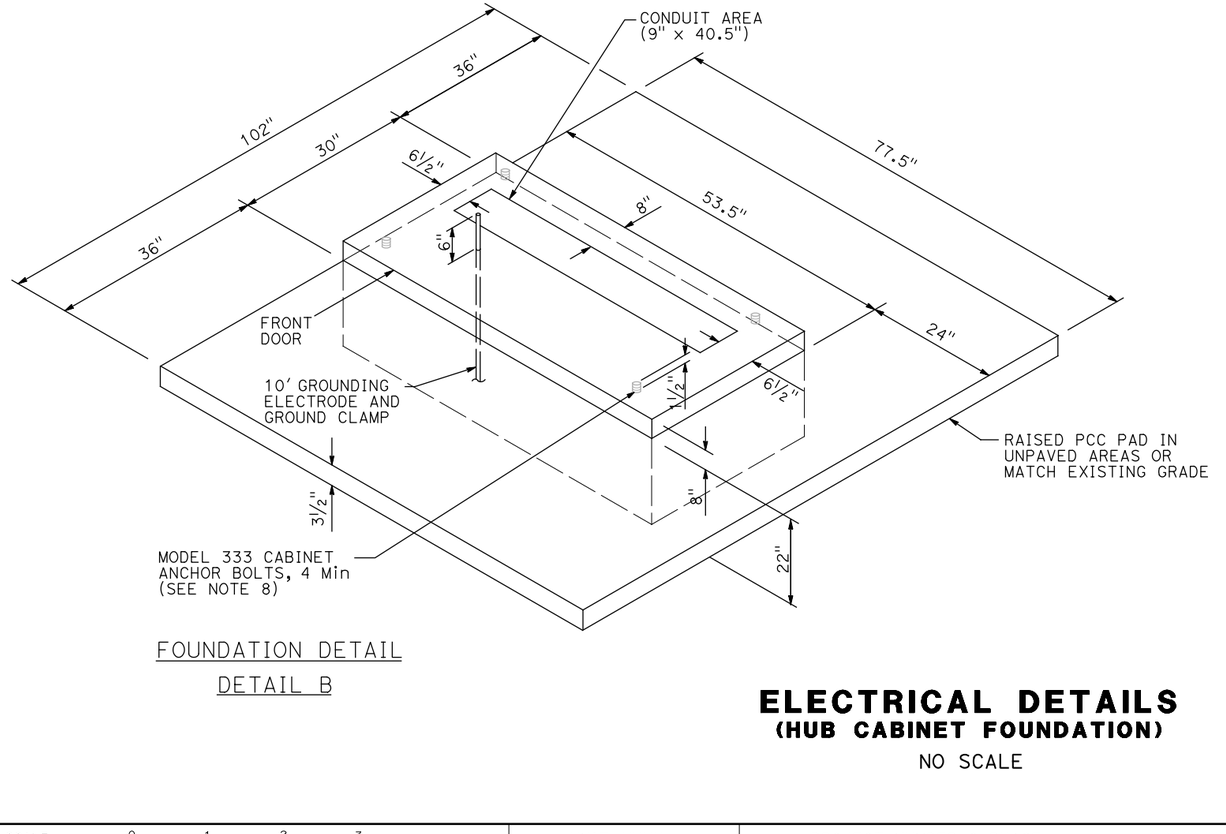
1. CABINET SHALL BE CONSTRUCTED FROM STAINLESS STEEL.
2. CABINET DIMIENSIONS SHOWN ARE NOMINAL.
3. FOUNDATION SHALL BE LOCATED TO PROVIDE 2'-0" MINIMUM CLEARANCE BETWEEN FACE OF CURB AND ANY PORTION OF CABINET.
4. MODEL 333 CABINET SHALL BE INSTALLED WITH THE BACK TOWARD THE NEAREST LANE OF TRAFFIC
5. 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 ¾" 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-120 FOR HUB CABINET DETAILS.



SIDE VIEW FRONT VIEW

FOUNDATION FOR MODEL 333 CABINETS
DETAIL A

CABINET MODEL	FOUNDATION		
	"W"	"H"	"D"
333	53½"	30"	30"



FOUNDATION DETAIL
DETAIL B

ELECTRICAL DETAILS
(HUB CABINET FOUNDATION)

NO SCALE

E-119

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

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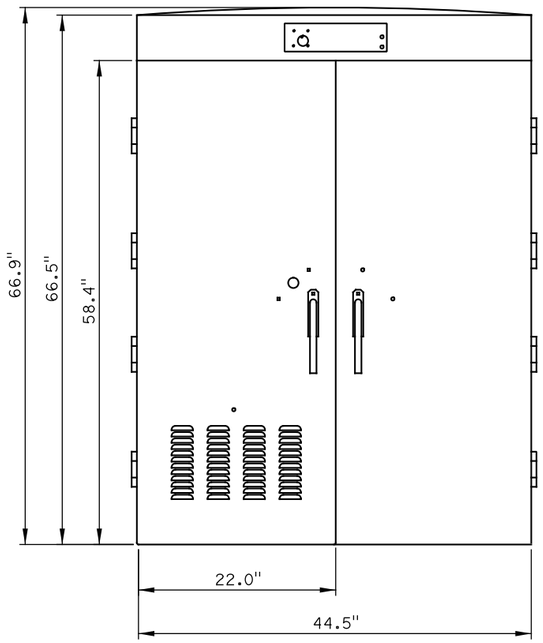
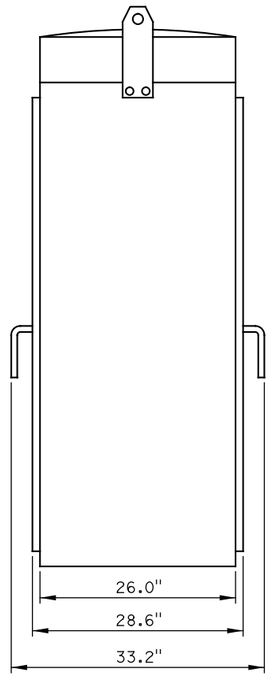
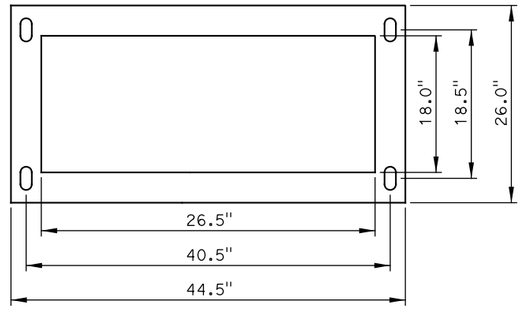
OAKLAND, CA 94607



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-119 FOR HUB CABINET FOUNDATION DETAILS.

ELECTRICAL DETAILS
(HUB CABINET DETAIL)
NO SCALE

E-120

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEY PASKEY
CHECKED BY: KEVIN AGUIGUI

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ua120.dgn

LAST REVISION: 00-00-00
DATE PLOTTED => 5/25/2015
TIME PLOTTED => 1:03:05 AM

BORDER LAST REVISED 10/4/2013
USERNAME => ZERE2344
DGN FILE => ua120.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

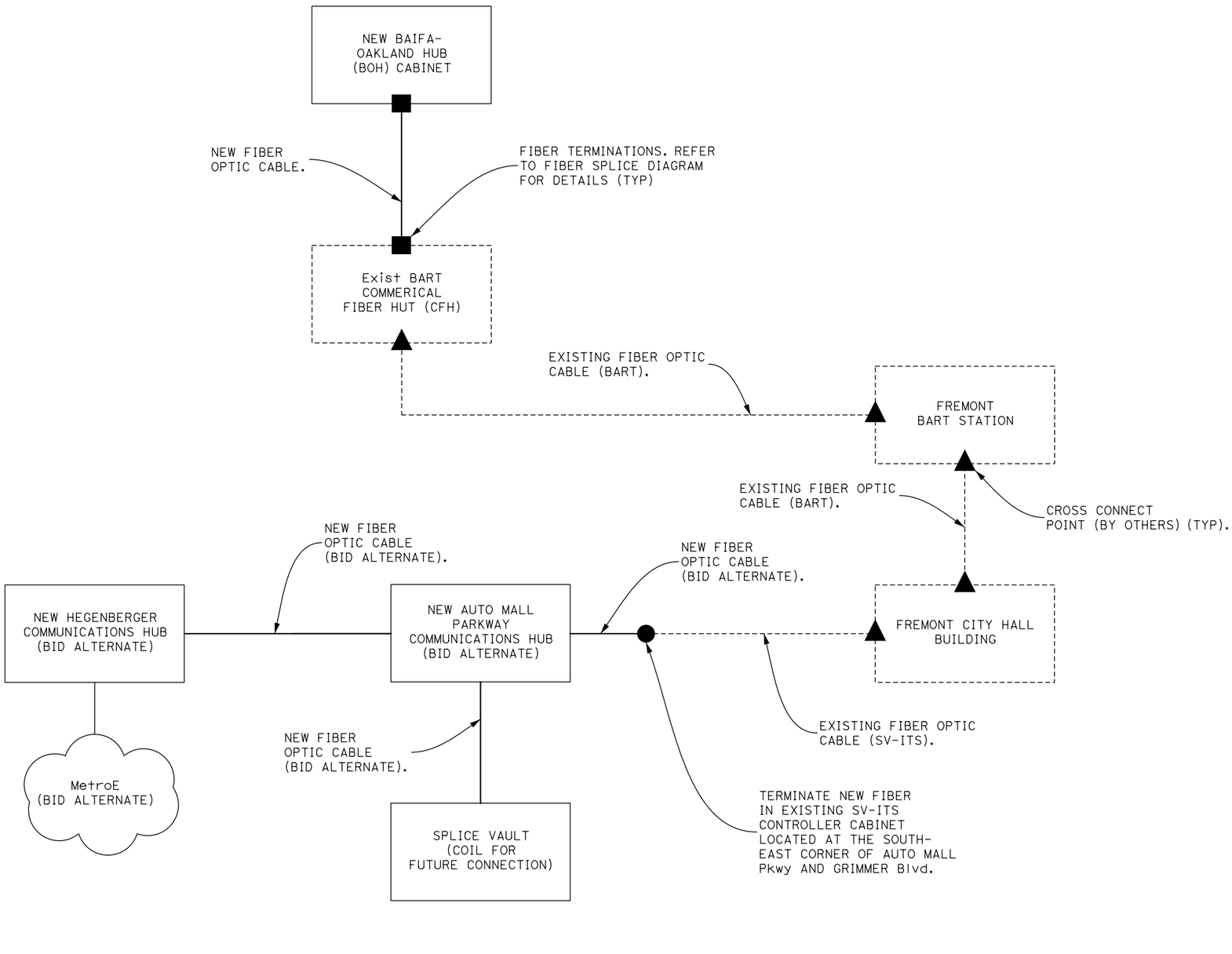
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL 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



ELECTRICAL DETAILS
(I-880 NETWORK OVERVIEW)

NO SCALE

E-121

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ua121.dgn

LAST REVISION 00-00-00 | DATE PLOTTED => 5/25/2015 | TIME PLOTTED => 1:03:08 AM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua121.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

NOTES:

1. CONTRACTOR SHALL BE ALLOWED ONE (1) TRUNK SPLICE BETWEEN BACKHAUL COMMUNICATION HUB CABINETS AT CALAVERAS Blvd AND AUTO MALL Pkwy TO ACCOMMODATE FIBER OPTIC CABLE REEL LENGTHS. CONTRACTOR SHALL BE ALLOWED UP TO FIVE (5) TRUNK SPLICES BETWEEN BACKHAUL COMMUNICATION HUB CABINETS AT AUTO MALL Pkwy AND HEGENBERGER Rd TO ACCOMMODATE FIBER OPTIC CABLE REEL LENGTHS. CONTRACTOR SHALL SUBMIT PROPOSED TRUNK SPLICE LOCATIONS TO ENGINEER FOR APPROVAL.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
ELECTRICAL
STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607

BACKHAUL COMMUNICATIONS SYSTEM QUANTITIES

SHEET No.	CONDUIT [N]			SINGLEMODE FIBER OPTIC CABLE [N]		PULL BOXES [N]			FIBER OPTIC SPLICE VAULT	REMOVE EXISTING PULL BOXES	OBJECT MARKER	FIBER OPTIC SPLICE CLOSURE	FIBER SPLICES AND TERMINATIONS	FIBER OPTIC DISTRIBUTION UNIT [N]		COMMUNICATIONS CABINET (TYPE 333)	ETHERNET ACCESS SWITCH	ETHERNET DISTRIBUTION SWITCH	TYPE III SERVICE EQUIPMENT ENCLOSURE
	2"	3"	3-3"	24	288	#5	#6 (T)	FIBER OPTIC PULL BOX	[N]	[N]	[N]	[N]	[N]	24 STRAND	144 STRAND	[N]	[N]	[N]	[N]
	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
E-3			1,000	2,200	1,110		1	3	1				312	1	2	1	1	2	
E-4	790		1,500		1,560			2			2								
E-5			1,400		1,460			2			4		48						
E-6			1,400		1,460			2			2		24						
E-7			1,400		1,460			2			3		24						
E-8			1,400		1,460			2					24						
E-9			1,450		1,540			3			2								
E-10			1,500		1,650			5			3		36						
E-11			1,400		1,490			3											
E-12			1,500		1,620			4			2		36						
E-13			1,400		1,460			2			4		12						
E-14			1,400		1,490			3					12						
E-15			1,350		1,410			2			2								
E-16			1,400		1,430			1			2		36						
E-17			1,440		1,560			4			2		36						
E-18			1,450		1,570			4			3		24						
E-19			1,400		1,520			4					24						
E-20			500		1,490			3		5	1		24						
E-21			1,500		1,590			3		1			24						
E-22			1,400		1,550			5			2		12						
E-23			300		1,550			5		7			24						
E-24					1,550			5		8	2		12						
E-25					1,490			3		6			24						
E-26			700		1,550			5		6	2		36						
E-27			1,600		2,000			2	1		2	1	624						
E-28		600	600		1,440			6					336	1	4	1	1	2	1
E-29			1,400		1,520			4		2	2		24						
E-30					1,520			4		8	2								
E-31					1,520			4		3	2		24						
E-32					1,520			4		7	2		24						
E-33					1,550			5		7	4		24						
E-34					2,400			10		13	2		24						
E-35					1,490			3		6	6		24						
E-36					1,200			1		2			24						
E-37					1,210			2		2			24						
E-38					2,280														
E-39					1,600								48						
E-40					1,500			3		2	1		24						
E-41				85	1,500	2		3			2		48						
E-42					1,500	5		3			5								
E-43					1,200			3		5	2								
E-44					1,100			3		5	6		24						
E-45					2,100			1			10								
E-46					1,500			3		7	14		24						
E-47					1,620			4		6	11		24						
E-48					1,490			4	1	7	6		48						
SUB-TOTAL	790	600	31,790	2,285	70,780	7	1	149	3	115	117	1	2,196	2	6	2	2	4	1

[N] NOT A SEPARATE ITEM, FOR INFORMATION ONLY

ELECTRICAL QUANTITIES
(BACKHAUL)

NO SCALE

E-122

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 00-00-00 | DATE PLOTTED => 5/25/2015 | TIME PLOTTED => 1:03:11 AM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua122.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

NOTES:

1. CONTRACTOR SHALL BE ALLOWED ONE (1) TRUNK SPLICE BETWEEN BACKHAUL COMMUNICATION HUB CABINETS AT CALAVERAS Blvd AND AUTO MALL Pkwy TO ACCOMMODATE FIBER OPTIC CABLE REEL LENGTHS. CONTRACTOR SHALL BE ALLOWED UP TO FIVE (5) TRUNK SPLICES BETWEEN BACKHAUL COMMUNICATION HUB CABINETS AT AUTO MALL Pkwy AND HEGENBERGER Rd TO ACCOMMODATE FIBER OPTIC CABLE REEL LENGTHS. CONTRACTOR SHALL SUBMIT PROPOSED TRUNK SPLICE LOCATIONS TO ENGINEER FOR APPROVAL.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. ELECTRICAL — 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

BACKHAUL COMMUNICATIONS SYSTEM QUANTITIES

SHEET No.	CONDUIT [N]			SINGLEMODE FIBER OPTIC CABLE [N]		PULL BOXES [N]			FIBER OPTIC SPLICE VAULT	REMOVE EXISTING PULL BOXES	OBJECT MARKER	FIBER OPTIC SPLICE CLOSURE	FIBER SPLICES AND TERMINATIONS	FIBER OPTIC DISTRIBUTION UNIT [N]		COMMUNICATIONS CABINET (TYPE 333)	ETHERNET ACCESS SWITCH	ETHERNET DISTRIBUTION SWITCH	TYPE III SERVICE EQUIPMENT ENCLOSURE
	2"	3"	3-3"	24	288	#5	#6 (T)	FIBER OPTIC PULL BOX	[N]	[N]	[N]	[N]	[N]	24 STRAND	144 STRAND	[N]	[N]	[N]	[N]
	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
E-49					1,520			4		7	10		12						
E-50					1,640			6		9	8								
E-51					1,640			6		9	9		48						
E-52		300			1,550			5		7	9		24						
E-53					1,520			4		9	10								
E-54					1,520			4		8	10		24						
E-55					1,710			7		11	7								
E-56		800			1,610			5		4	11		24						
E-57					1,620			4		8	10								
E-58					1,520			4		7	4								
E-59					1,320			4		7	7		24						
E-60					1,290			3		6	8								
E-61					2,300			10		13	8		24						
E-62					1,400			5		8	4								
E-63					1,470			9		10									
E-64					1,500			5		7			72						
E-65					1,320			4		7			96						
E-66					1,290			3		6			144		1				
E-67					1,680			6		9			12						
E-68					1,260			2		6			80						
E-69					1,320			4		7			240						
E-70			600		1,650			4		6									
E-71					1,320			11		13									
E-72					1,350														
E-73					1,360														
E-74					1,320														
E-75			500		1,360														
E-76			1,150		1,310			2											
E-77			760		1,390			2		2									
E-78					1,320			4		7									
E-79					1,460			7		10									
E-80					1,440			3		7									
E-81					1,550			5		7									
E-82					1,550			5		7									
E-83					1,380			1		1									
E-84					1,440			3											
E-85					1,410			2											
E-86					1,290			1		2									
E-87					1,340														
E-88			400		1,230			1											
E-89			350		1,190			3		1									
E-90			500		1,220			4											
E-91			100		1,170														
E-92			150		1,440														
E-93					1,400														
E-94					1,240														
SUB-TOTAL		1,100	4,510		66,130			162		228	115		824		1	0	0	0	0

[N] NOT A SEPARATE ITEM, FOR INFORMATION ONLY

ELECTRICAL QUANTITIES
(BACKHAUL)

NO SCALE

E-123

REVISED BY | DATE REVISED
JOEY PASKEY | KEVIN AGUIGUI
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 00-00-00 | DATE PLOTTED => 5/25/2015 | TIME PLOTTED => 1:03:14 AM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua123.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

NOTES:

1. CONTRACTOR SHALL BE ALLOWED ONE (1) TRUNK SPLICE BETWEEN BACKHAUL COMMUNICATION HUB CABINETS AT CALAVERAS Blvd AND AUTO MALL Pkwy TO ACCOMMODATE FIBER OPTIC CABLE REEL LENGTHS. CONTRACTOR SHALL BE ALLOWED UP TO FIVE (5) TRUNK SPLICES BETWEEN BACKHAUL COMMUNICATION HUB CABINETS AT AUTO MALL Pkwy AND HEGENBERGER Rd TO ACCOMMODATE FIBER OPTIC CABLE REEL LENGTHS. CONTRACTOR SHALL SUBMIT PROPOSED TRUNK SPLICE LOCATIONS TO ENGINEER FOR APPROVAL.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. ELECTRICAL — 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

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]	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"	3-3"	24	288	#5	#6 (T)	FIBER OPTIC PULL BOX						24 STRAND	144 STRAND				
	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
E-95					1,480														
E-96					1,480														
E-97					1,500														
E-98					1,370														
E-99					1,340														
E-100					1,470														
E-101					1,370														
E-102					1,410														
E-103					1,490														
E-104					1,410														
E-105					1,490														
E-106					1,430														
E-107					1,760														
E-108					1,330														
E-109					1,330														
E-110		600			1,460		2												
E-111		1,380			1,380		1												
E-112		1,200			1,400	3	5						288		2	1	1	2	1
E-113																			
SUB-TOTAL		3,180			25,900	3	8						288		2	1	1	2	1
MAXIMUM TRUNK SPLICES													1,728						
GRAND TOTAL	790	4,880	36,300	2,285	162,810	10	9	311	3	343	232	1	5,036	2	9	3	3	6	2

[N] NOT A SEPARATE ITEM, FOR INFORMATION ONLY

ELECTRICAL QUANTITIES
(BACKHAUL)

NO SCALE

E-124

REVISED BY | DATE REVISED

JOEY PASKEY | KEVIN AGUIGUI

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua124.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. — ELECTRICAL — STATE OF CALIFORNIA

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5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607

REVISED BY | DATE REVISED

JOEY PASKEY | KEVIN AGUIGUI

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR

KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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BLUE (BK) · ORANGE (BK) · GREEN (BK) · BROWN (BK) · SLATE (BK) · WHITE (BK) · RED (BK) · BLACK (WH) · YELLOW (BK) · VIOLET (BK) · ROSE (BK) · AQUA (BK)

● FUSION SPLICE POINT

SEE DETAIL A (TYPICAL)

PATCH PANEL (TYPICAL)

BLUE · ORANGE · GREEN · BROWN · SLATE · WHITE · RED · BLACK · YELLOW · VIOLET · ROSE · AQUA

TO NEW SPLICE VAULT (SEE SHEET E-3)

24 SMFO CABLE

288 SMFO CABLE

TO AUTO MALL Pwky HUB

ELECTRICAL DETAILS
(CALAVERAS Blvd HUB FIBER OPTIC SPLICE DIAGRAM)

NO SCALE

E-125

LAST REVISION | DATE PLOTTED => 5/25/2015
00-00-00 | TIME PLOTTED => 11:03:20 AM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua125.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. — ELECTRICAL — 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.

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332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI

CALCULATED-DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR
KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c:\pw_work\atknaca01\zere2344\dms01003\ua126.dgn

BLUE (BK) · ORANGE (BK) · GREEN (BK) · BROWN (BK) · SLATE (BK) · WHITE (BK) · RED (BK) · BLACK (WH) · YELLOW (BK) · VIOLET (BK) · ROSE (BK) · AQUA (BK)

● FUSION SPLICE POINT

SEE DETAIL A (TYPICAL)

PATCH PANEL (TYPICAL)

BLUE · ORANGE · GREEN · BROWN · SLATE · WHITE · RED · BLACK · YELLOW · VIOLET · ROSE · AQUA

TO Exist SPLICE VAULT (SEE SHEET E-128)

24 SMFO CABLE

288 SMFO CABLE → TO CALAVERAS Blvd HUB

ELECTRICAL DETAILS
(AUTO MALL Pkwy HUB FIBER OPTIC SPLICE DIAGRAM)

NO SCALE

E-126

LAST REVISION 00-00-00 | DATE PLOTTED => 5/25/2015 | TIME PLOTTED => 1:03:23 AM

BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua126.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1		XX

REGISTERED ELECTRICAL ENGINEER DATE

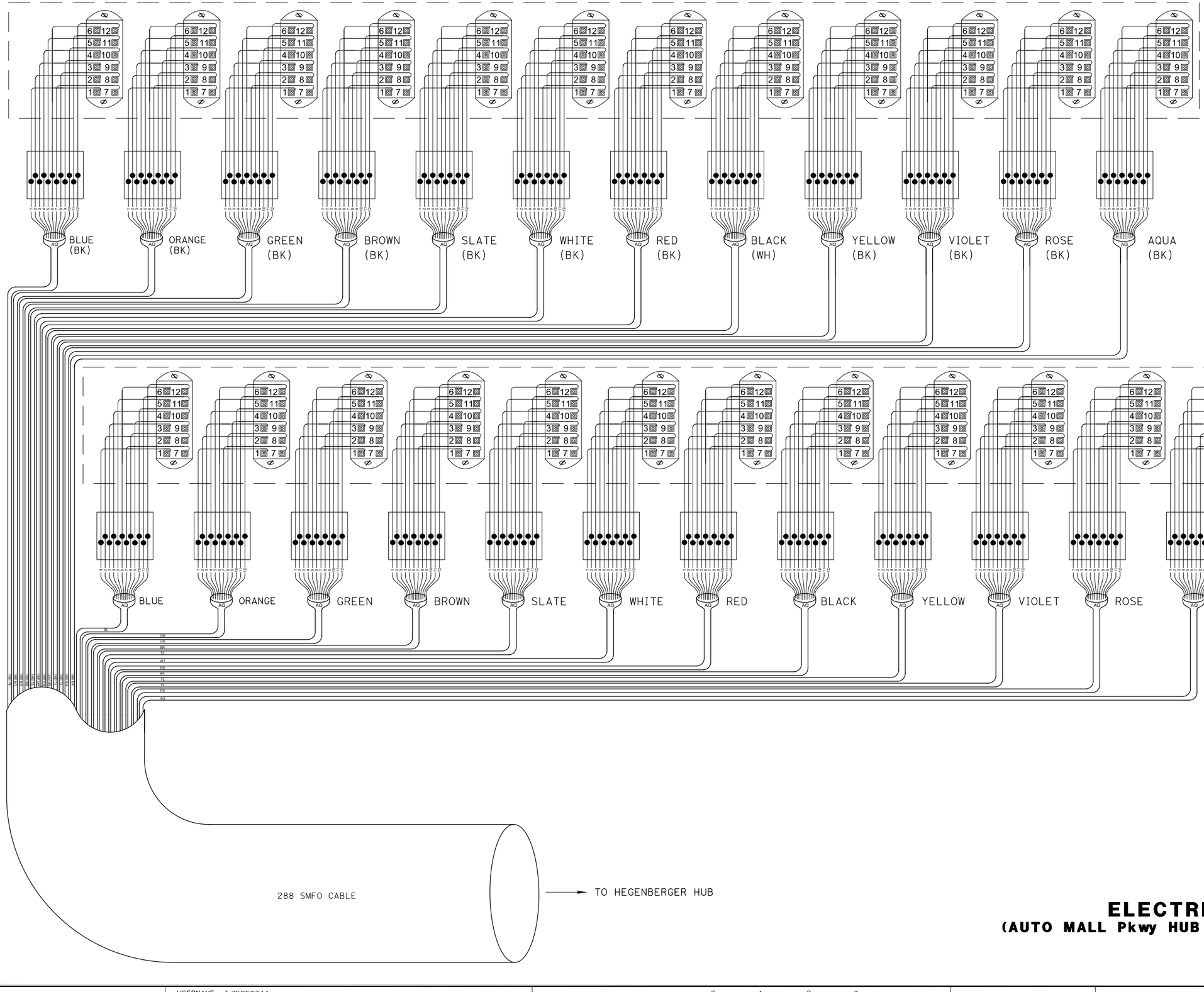
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. ELECTRICAL — 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



● FUSION SPLICE POINT

ELECTRICAL DETAILS
(AUTO MALL Pkwy HUB FIBER OPTIC SPLICE DIAGRAM)

NO SCALE

E-127

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI

CALCULATED-DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 5/25/2015 | TIME PLOTTED => 1:03:26 AM

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BORDER LAST REVISED 10/4/2013 | USERNAME => ZERE2344 | DGN FILE => ua127.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT XXXX | PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. — ELECTRICAL — STATE OF CALIFORNIA

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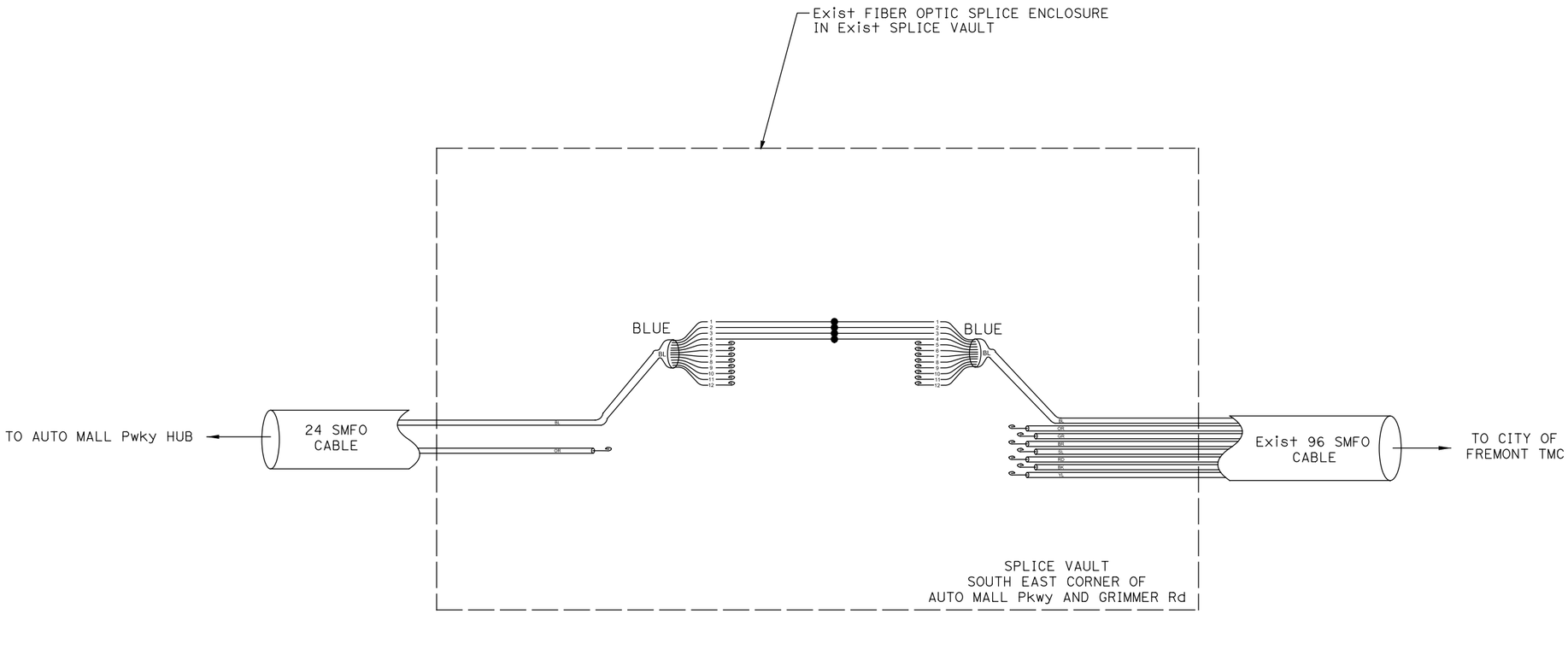
ATKINS
332 PINE STREET
5TH FLOOR
SAN FRANCISCO, CA 94104

METROPOLITAN
TRANSPORTATION COMMISSION
101 EIGHTH STREET
OAKLAND, CA 94607

NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL PATCH CHORDS FOR BACKHAUL CROSS CONNECTS AT CITY TMC.
2. CONTRACTOR SHALL COORDINATE WITH ENGINEER AND CITY OF FREMONT TO GAIN ACCESS TO CITY TMC.



● FUSION SPLICE POINT

ELECTRICAL DETAILS
(SV-ITS FIBER OPTIC SPLICE DIAGRAM - AUTO MALL)

NO SCALE

E-128

CALCULATED-DESIGNED BY: KEVIN AGUIGUI
CHECKED BY: JOEY PASKEY
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	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. — ELECTRICAL — STATE OF CALIFORNIA

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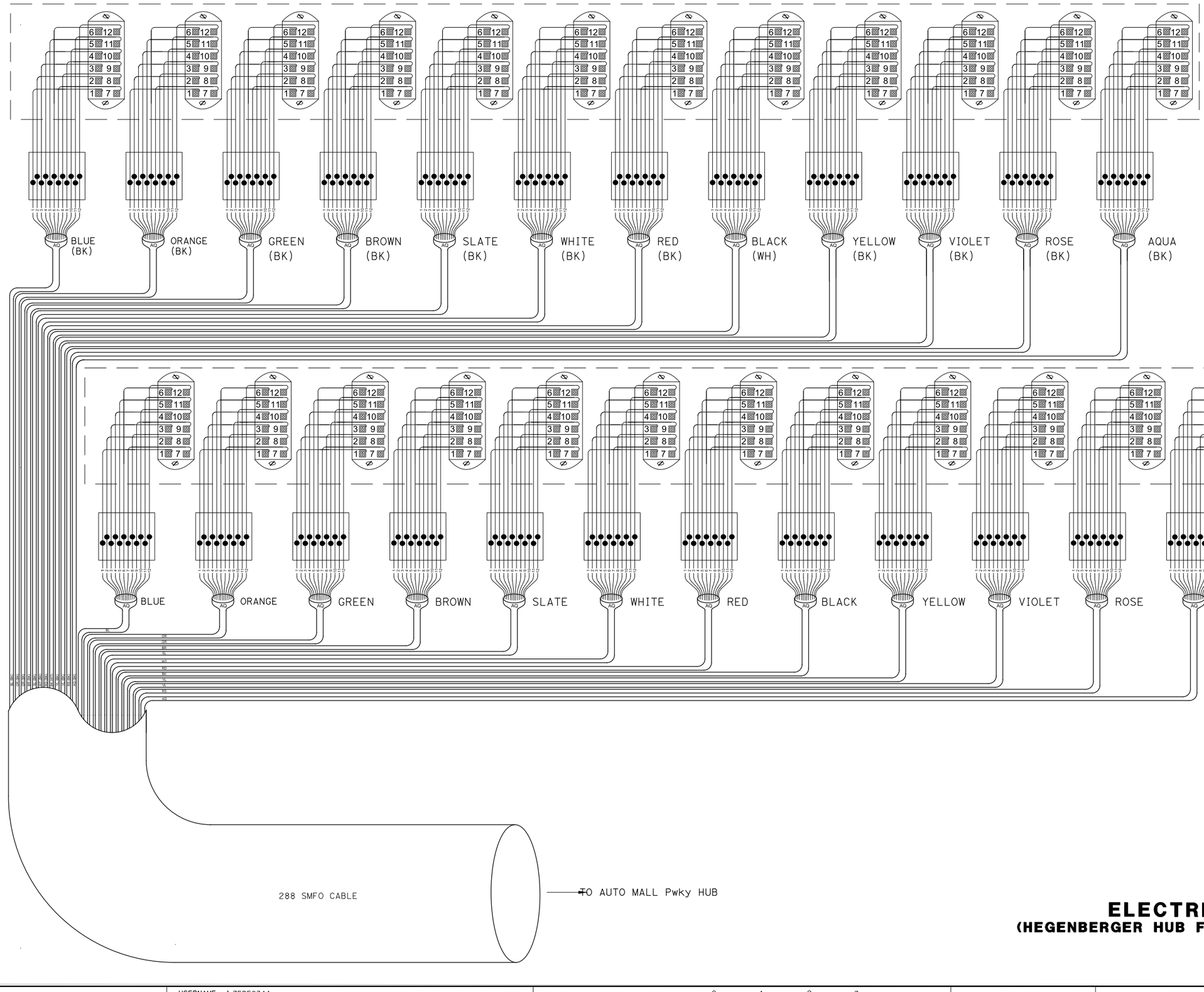
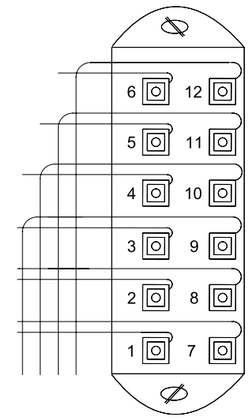
OAKLAND, CA 94607



● FUSION SPLICE POINT



DETAIL A
FIBER PATCH PANEL

ELECTRICAL DETAILS
(HEGENBERGER HUB FIBER OPTIC SPLICE DIAGRAM)

NO SCALE

E-129

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY
CHECKED BY

JOEY PASKEY
KEVIN AGUIGUI

CONSULTANT FUNCTIONAL SUPERVISOR
KAI CHAN

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USERNAME => ZERE2344
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UNIT XXXX
PROJECT NUMBER & PHASE XXXXXXXXXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

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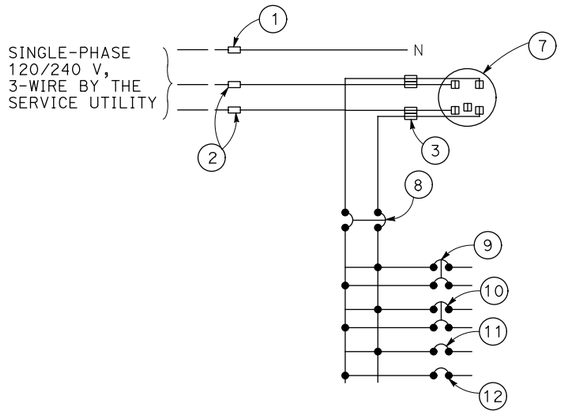

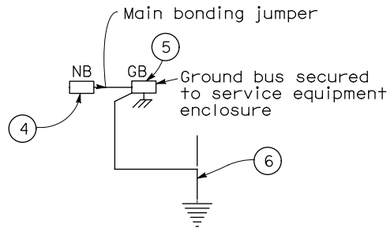

120/240 V SERVICE CABINET WIRING DIAGRAM (TYPICAL)

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-130

REVISED BY | DATE REVISED
JOEY PASKEY | KEVIN AGUIGUI
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	Scl,Ala	880	8.4/10.5 0.0/26.1	XX	XX

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. ELECTRICAL — STATE OF CALIFORNIA

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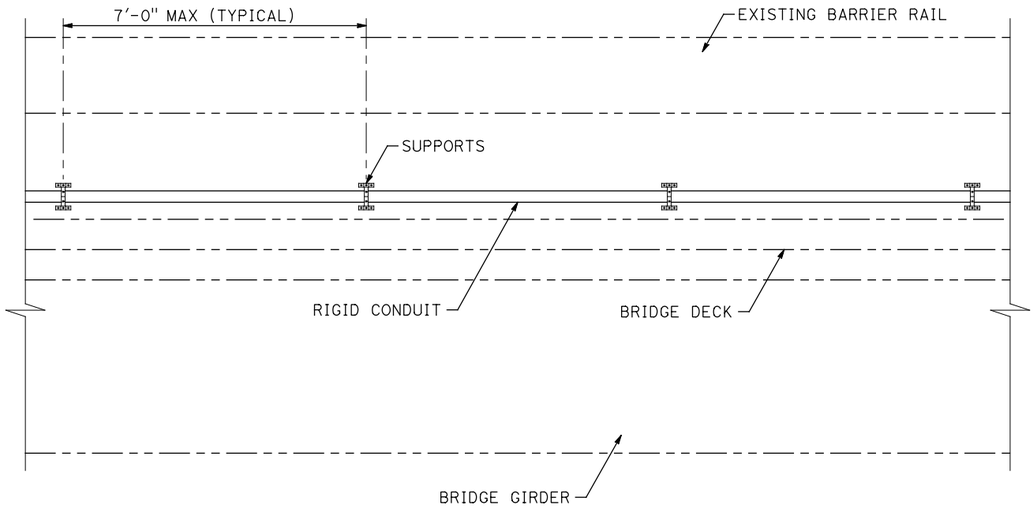
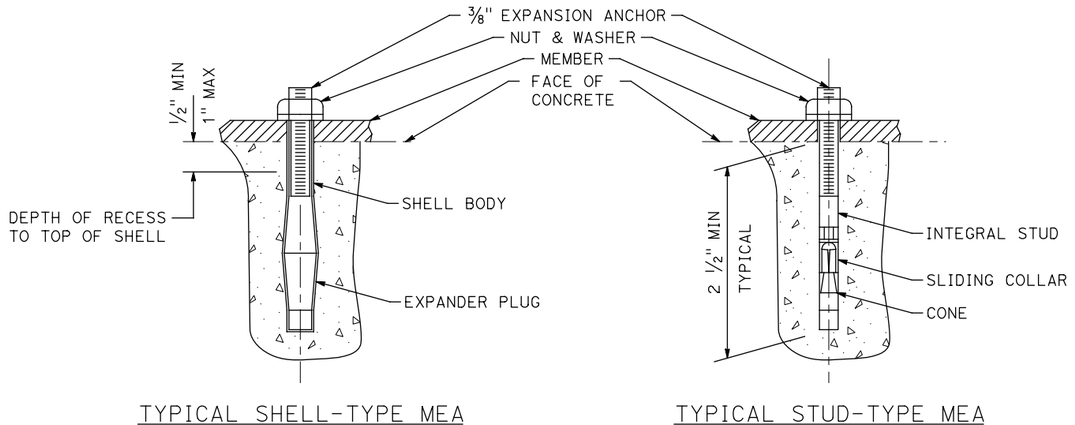
SUPPORTS ARE TO BE LOCATED 2'-0" MAXIMUM EACH SIDE OF EXPANSION ASSEMBLIES. (ES-9B)



ELEVATION
COMMUNICATION CONDUIT

NOTES:

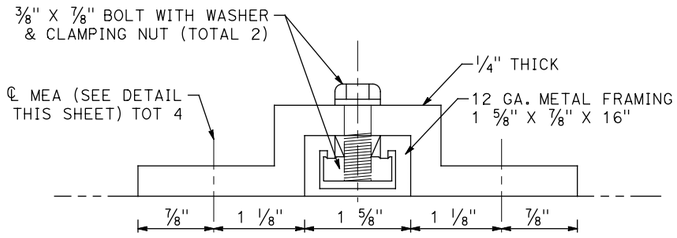
1. ALL STEEL SHALL BE GALVANIZED AFTER FABRICATION.
2. SEAL UTILITIES AT ABUTMENT WITH CONCRETE OR MORTAR, AFTER TIGHTLY WRAPPING UTILITY WITH TWO LAYERS OF 15 LB BUILDING PAPER.
3. DETAILS TO BE USED ON BRIDGE NO.S 35-0052. SEE "ROADWAY PLANS" FOR FIBER OPTIC LOCATIONS.



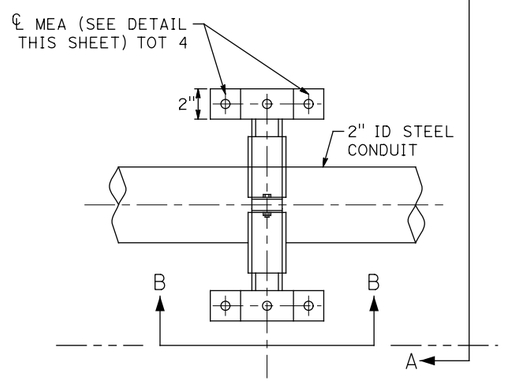
TYPICAL SHELL-TYPE MEA

TYPICAL STUD-TYPE MEA

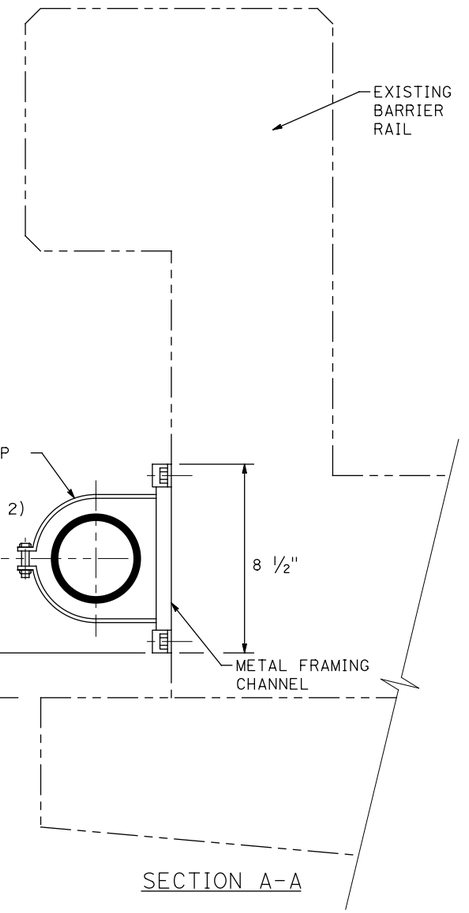
MECHANICAL EXPANSION ANCHOR BOLTS (MEA)



SECTION B-B



ELEVATION



SECTION A-A

CONDUIT SUPPORT DETAILS
SPACED AT 7'-0" MAXIMUM

LEGEND

INDICATES EXISTING STRUCTURE

INDICATES NEW CONSTRUCTION

ELECTRICAL DETAILS
(CONDUIT SUPPORT)

NO SCALE

E-131

REVISED BY	DATE REVISED
JOEY PASKEY	KEVIN AGUIGUI

CALCULATED-DESIGNED BY

CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: KAI CHAN

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