Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

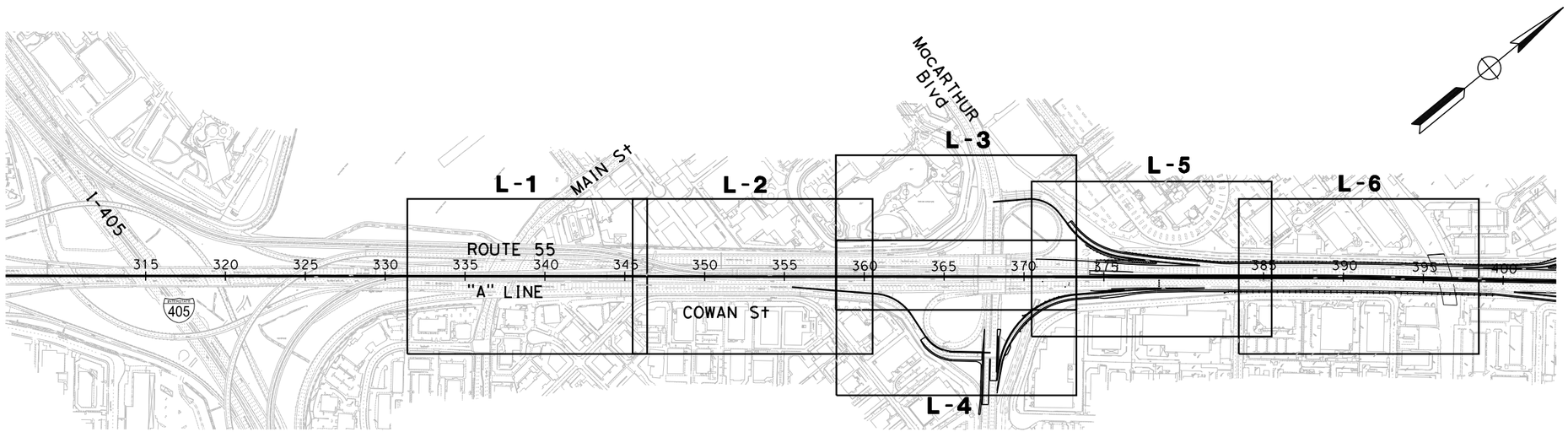
REGISTERED CIVIL ENGINEER DATE

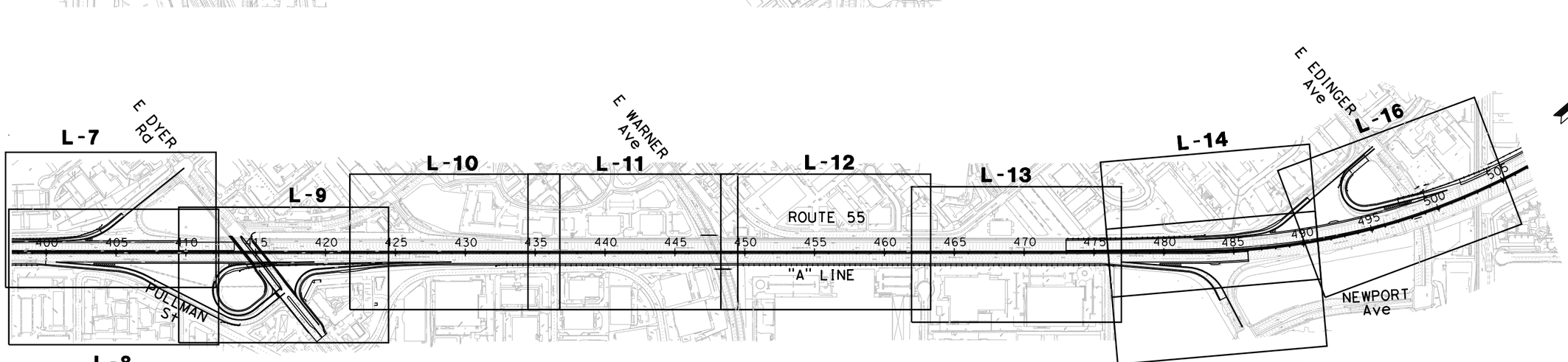
PLANS APPROVAL DATE

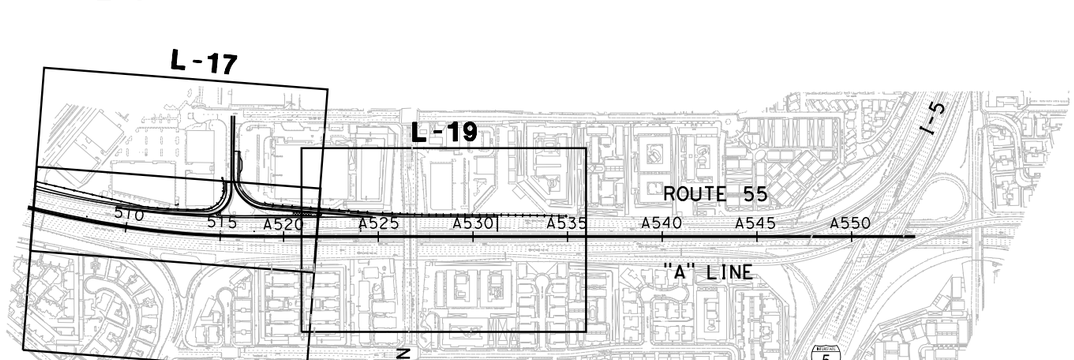
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

HDR ENGINEERING,INC.
3230 EL CAMINO REAL
SUITE 200
IRVINE, CA 92602-1377

OCTA
550 SOUTH MAIN STREET
P.O. BOX 14184
ORANGE, CA 92863-1584







NOT FOR CONSTRUCTION

ALTERNATIVE 1
KEY MAP AND LINE INDEX
NO SCALE

K-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA

CALCULATED-DESIGNED BY: SHIVA WOOTON

CHECKED BY: LIEM A. NGUYEN

REVISED BY

DATE REVISED

LAST REVISION XX-XX-XX

DATE PLOTTED => 11/23/2015
TIME PLOTTED => 10:41:45 AM

BORDER LAST REVISED 7/2/2010

USERNAME => user
DGN FILE => c:\pwworking\sac\d0340870\12XXXXda001_Alt-1.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 12-XXXX

PROJECT NUMBER & PHASE 120000XXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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OCTA
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P.O. BOX 14184
ORANGE, CA 92863-1584

NO WORK THIS SHEET

NOTE:

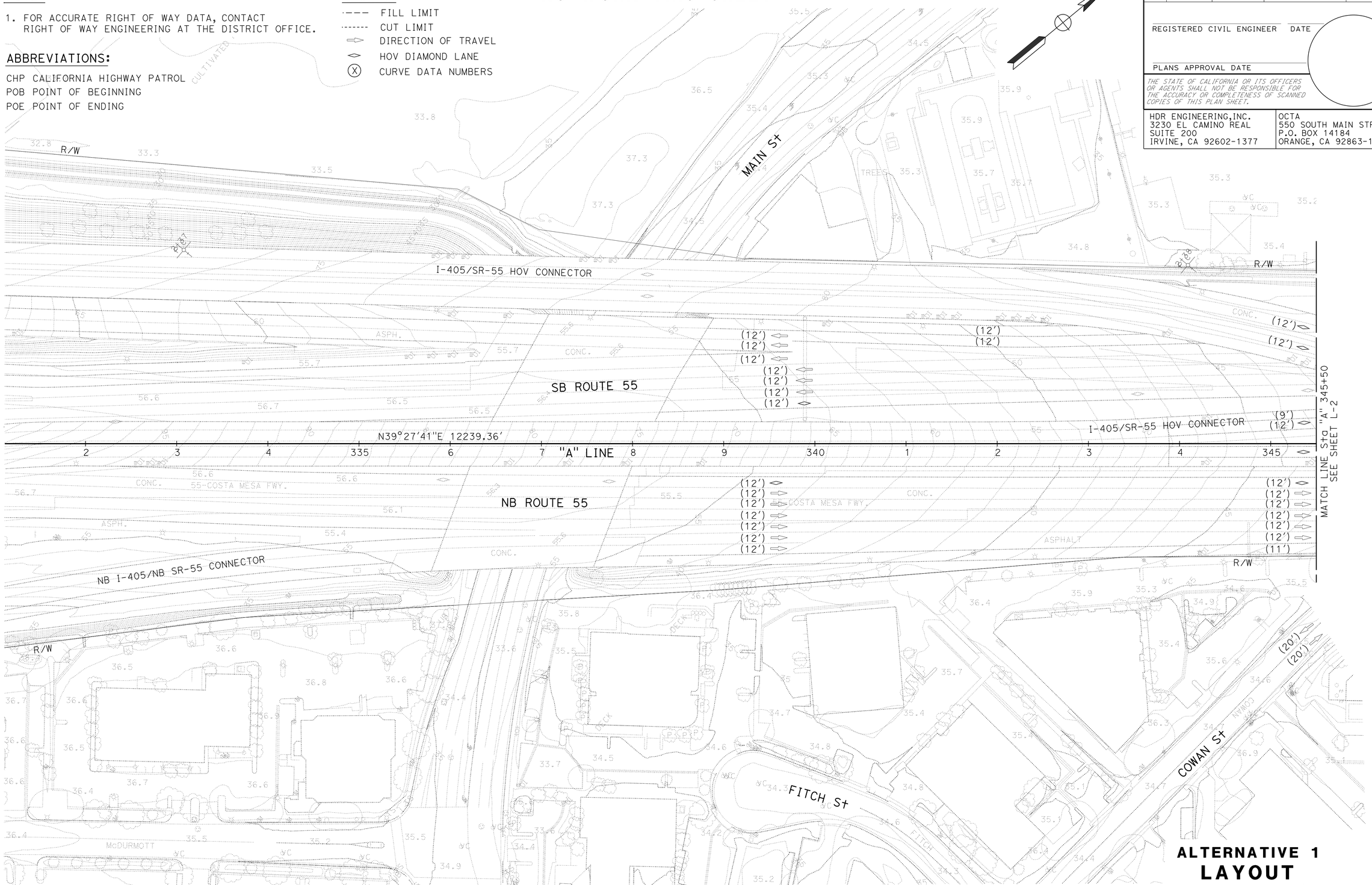
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

ABBREVIATIONS:

CHP CALIFORNIA HIGHWAY PATROL
POB POINT OF BEGINNING
POE POINT OF ENDING

LEGEND:

FILL LIMIT
CUT LIMIT
DIRECTION OF TRAVEL
HOV DIAMOND LANE
CURVE DATA NUMBERS



ALTERNATIVE 1
LAYOUT
SCALE: 1" = 50'

NOT FOR CONSTRUCTION

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA

CALCULATED-DESIGNED BY: SHIVA WOOTON

CHECKED BY: LIEM A. NGUYEN

REVISED BY | DATE REVISED

LAST REVISION XX-XX-XX | DATE PLOTTED => 08-OCT-2015 | TIME PLOTTED => 08:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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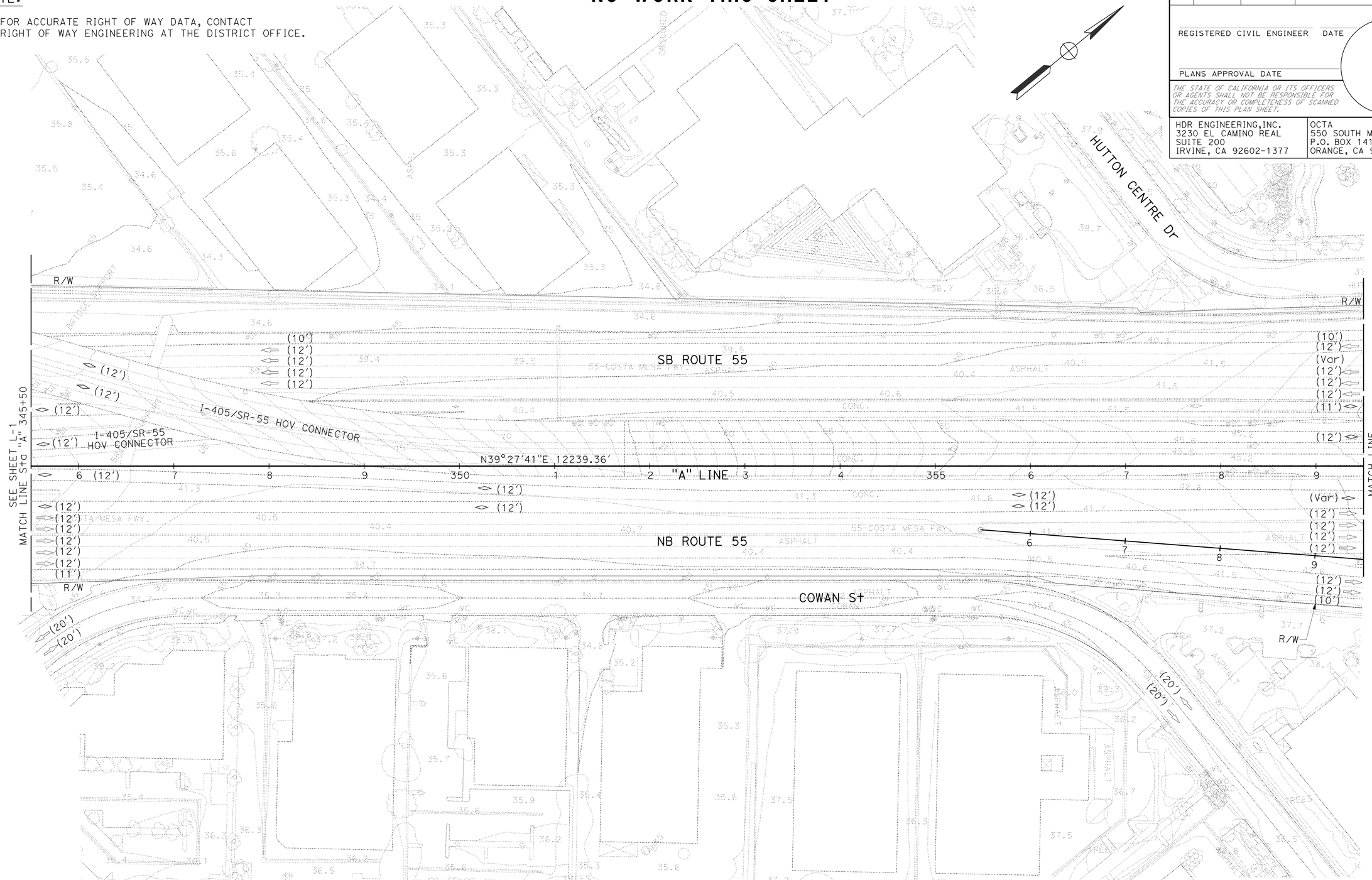
P.O. BOX 14184
ORANGE, CA 92863-1584

NOTE:

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

NO WORK THIS SHEET



ALTERNATIVE 1
LAYOUT
SCALE: 1" = 50'

NOT FOR CONSTRUCTION

L-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA

SHIVA WOOTON

LIEM A. NGUYEN

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

LAST REVISION | DATE PLOTTED => 08-OCT-2015 | TIME PLOTTED => 08:36 | XX-XX-XX

BORDER LAST REVISED 7/2/2010 | USERNAME => svc_in_pwservice | DGN FILE => 12xxxxea002_Alt-1.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 12-XXXX | PROJECT NUMBER & PHASE 120000XXXX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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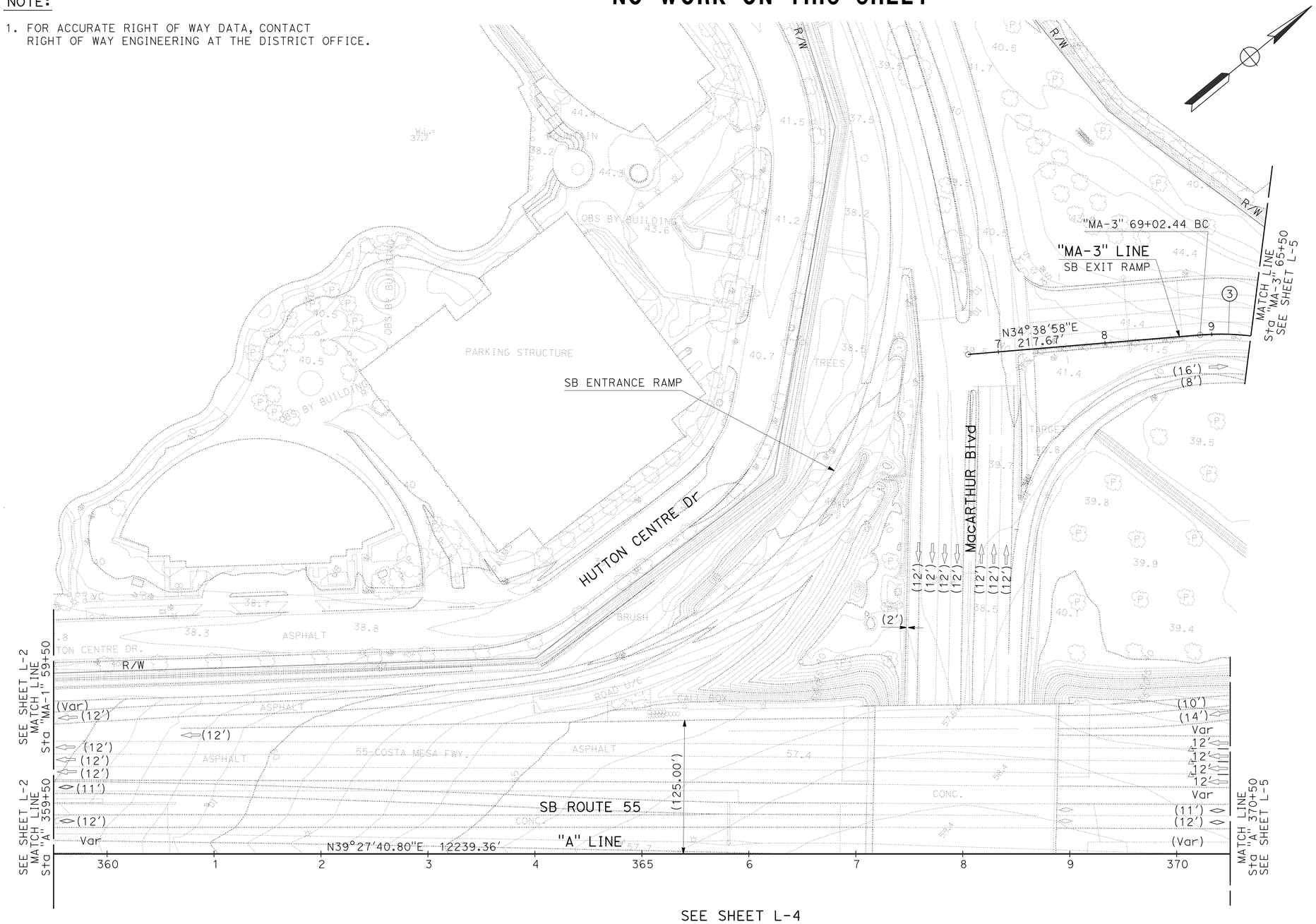
NO WORK ON THIS SHEET

NOTE:

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



CURVE DATA

No. (X)	R	△	T	L
3	226.38′	56°50′52"	125.59′	224.61′

NOT FOR CONSTRUCTION

ALTERNATIVE 1
LAYOUT
SCALE: 1" = 50′

L-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA

CALCULATED-DESIGNED BY: SHIVA WOOTON

CHECKED BY: LIEM A. NGUYEN

REVISED BY

DATE REVISED

LAST REVISION XX-XX-XX

DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 08:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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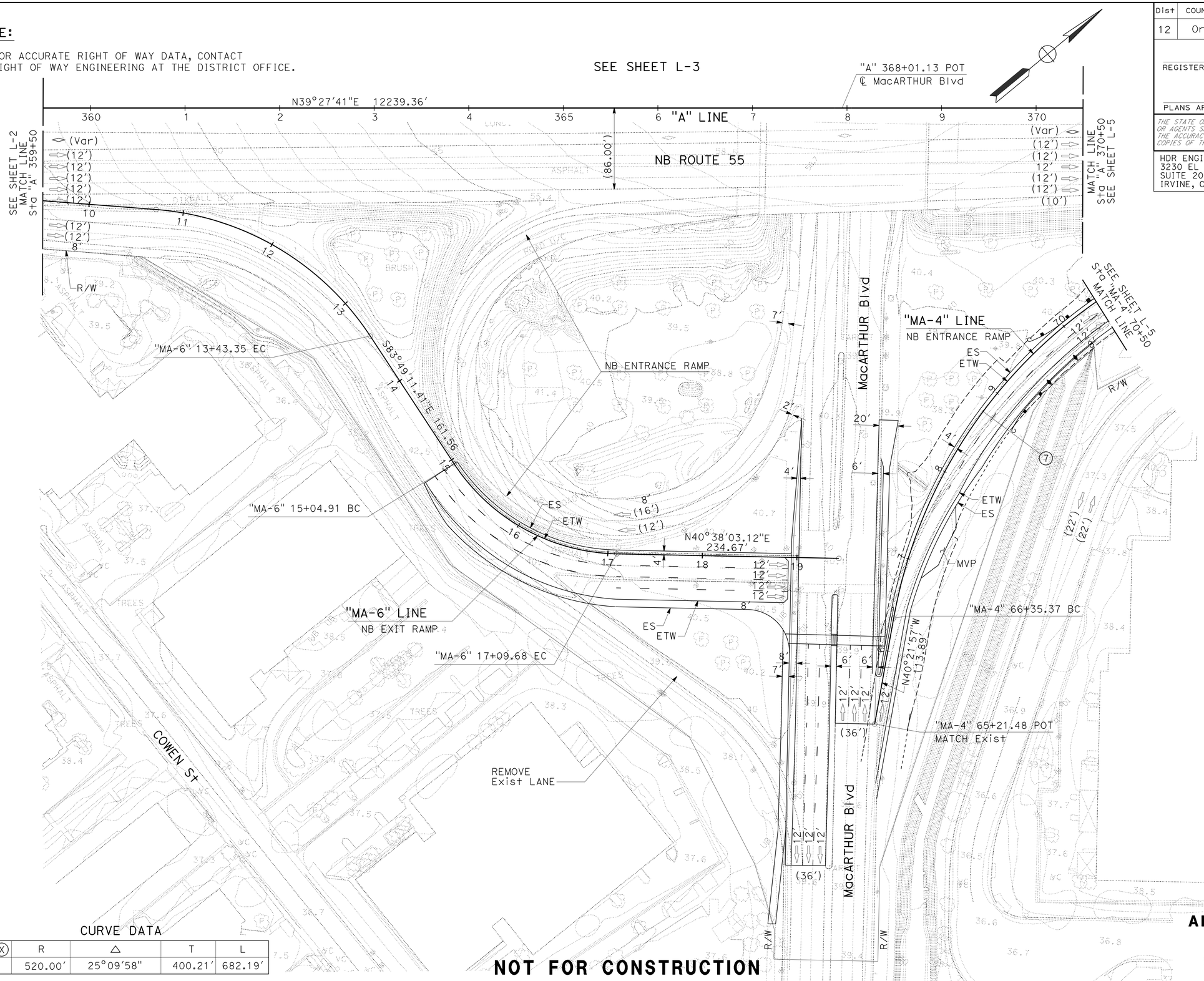
NOTE:

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



CURVE DATA

No. (X)	R	Δ	T	L
7	520.00'	25°09'58"	400.21'	682.19'

NOT FOR CONSTRUCTION

ALTERNATIVE 1
LAYOUT
SCALE: 1" = 50'

L-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA
CALCULATED-DESIGNED BY: SHIVA WOOTON
CHECKED BY: LIEM A. NGUYEN
REVISED BY
DATE REVISED

LAST REVISION XX-XX-XX
DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 08:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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OCTA
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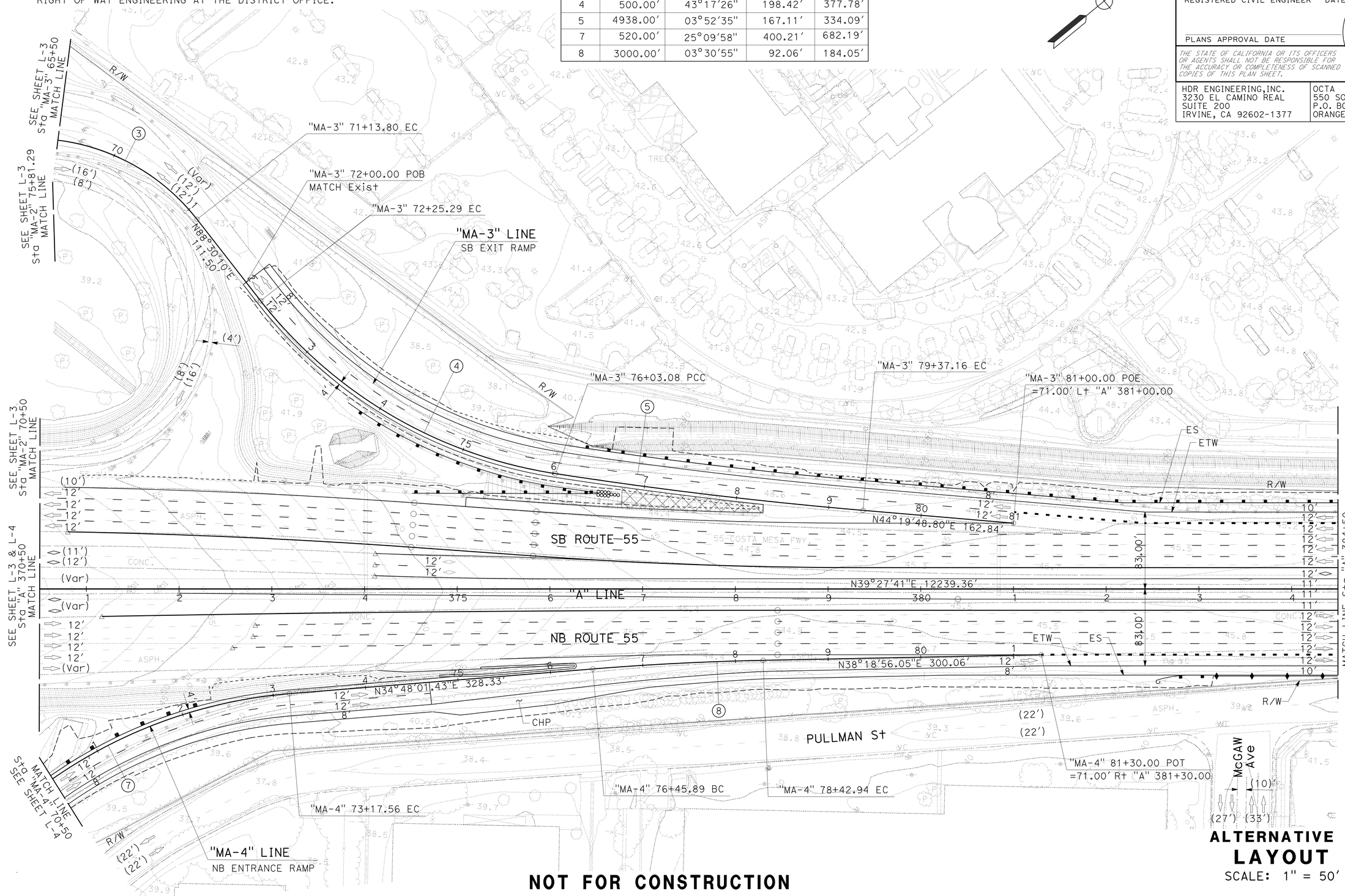
P.O. BOX 14184
ORANGE, CA 92863-1584

NOTE:

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

CURVE DATA

No. (X)	R	Δ	T	L
3	226.38′	56°50′52″	125.59′	224.61′
4	500.00′	43°17′26″	198.42′	377.78′
5	4938.00′	03°52′35″	167.11′	334.09′
7	520.00′	25°09′58″	400.21′	682.19′
8	3000.00′	03°30′55″	92.06′	184.05′



ALTERNATIVE 1

LAYOUT

SCALE: 1" = 50′

NOT FOR CONSTRUCTION

L-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA

CALCULATED-DESIGNED BY: SHIVA WOOTON

CHECKED BY: LIEM A. NGUYEN

REVISED BY

DATE REVISED

LAST REVISION XX-XX-XX

DATE PLOTTED => 08-OCT-2015

TIME PLOTTED => 08:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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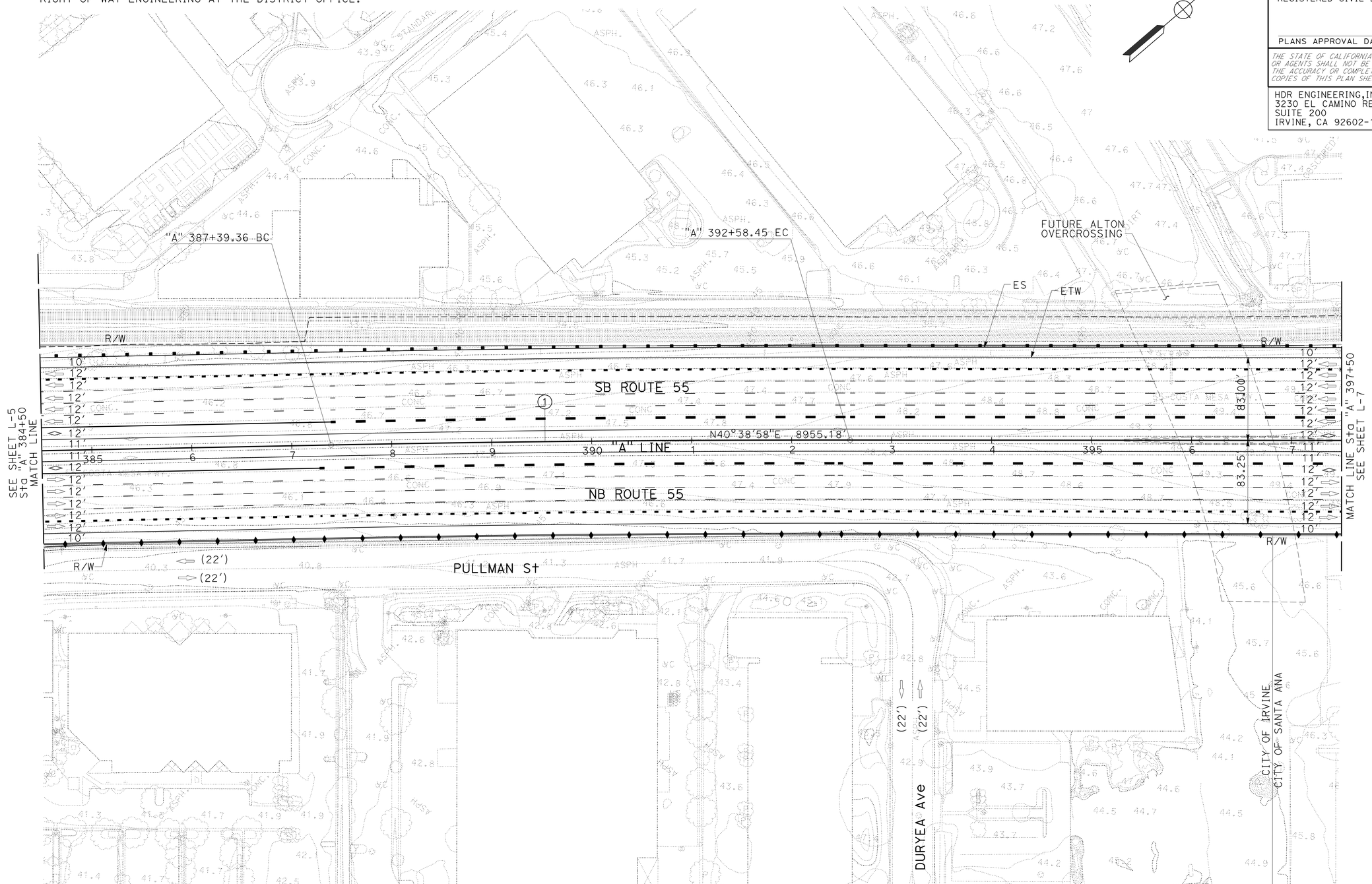
ORANGE, CA 92863-1584

NOTE:

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



CURVE DATA

No. (X)	R	Δ	T	L
1	25032.80'	01°11'17"	259.55'	519.09'

NOT FOR CONSTRUCTION

ALTERNATIVE 1
LAYOUT
SCALE: 1" = 50'

L-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA
CALCULATED-DESIGNED BY: SHIVA WOOTON
CHECKED BY: LIEM A. NGUYEN
REVISED BY
DATE REVISED

LAST REVISION XX-XX-XX
DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 08:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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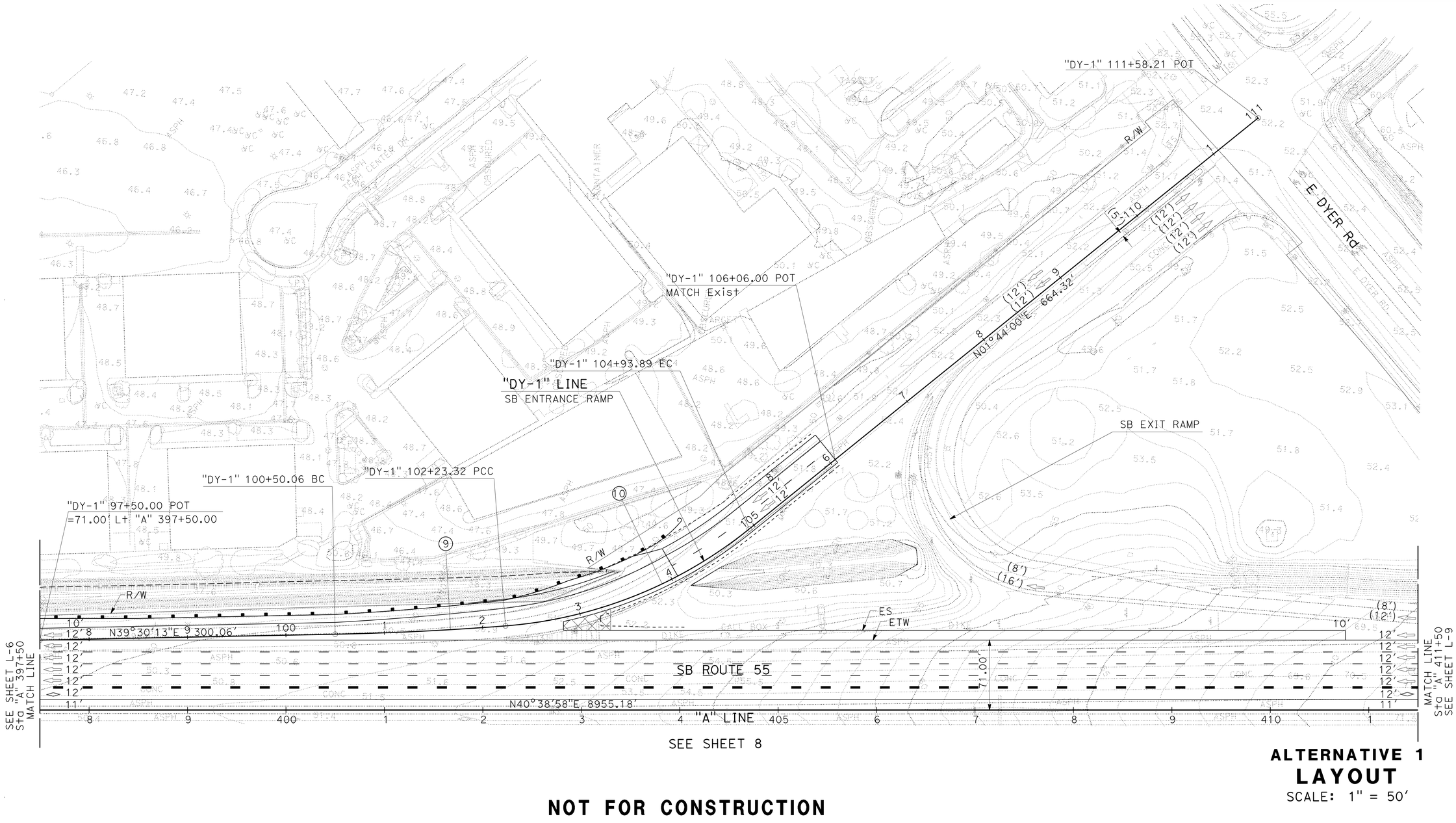
ORANGE, CA 92863-1584

NOTE:

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

CURVE DATA

No. (X)	R	△	T	L
9	3000.00′	03°18′33″	86.66′	173.26′
10	450.00′	34°26′58″	139.51′	270.57′



ALTERNATIVE 1

LAYOUT

SCALE: 1" = 50′

NOT FOR CONSTRUCTION

L-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA

CALCULATED-DESIGNED BY: SHIVA WOOTON

CHECKED BY: LIEM A. NGUYEN

REVISED BY

DATE REVISED

LAST REVISION: XX-XX-XX

DATE PLOTTED => 08-OCT-2015

TIME PLOTTED => 08:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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HDR ENGINEERING,INC.
3230 EL CAMINO REAL
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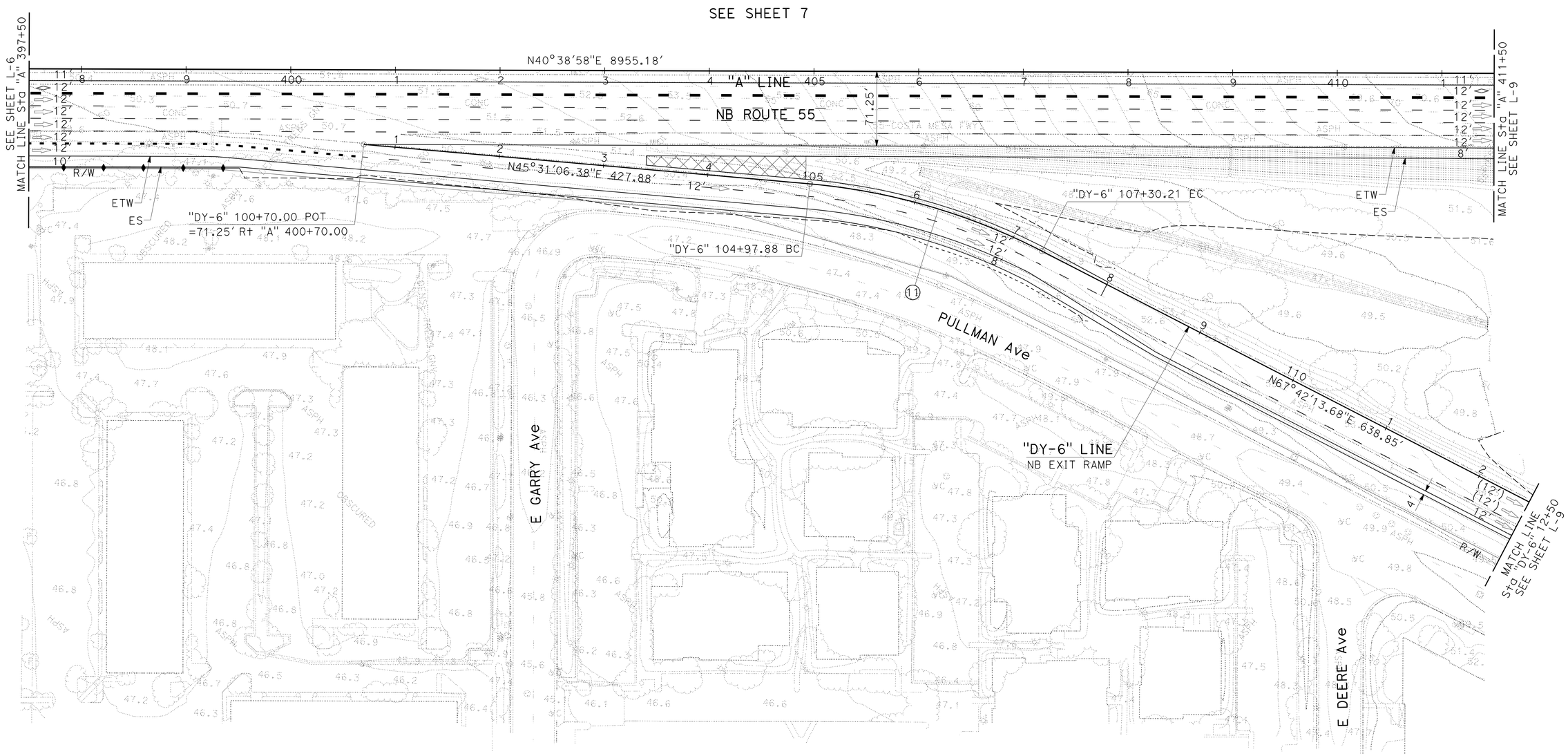
OCTA
550 SOUTH MAIN STREET
P.O. BOX 14184
ORANGE, CA 92863-1584

NOTE:

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



CURVE DATA

No. (X)	R	△	T	L
11	600.00'	22°11'07"	117.64'	232.32'

NOT FOR CONSTRUCTION

ALTERNATIVE 1
LAYOUT
SCALE: 1" = 50'

L-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA

CALCULATED-DESIGNED BY: SHIVA WOOTON

CHECKED BY: LIEM A. NGUYEN

REVISED BY

DATE REVISED

LAST REVISION XX-XX-XX

DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 08:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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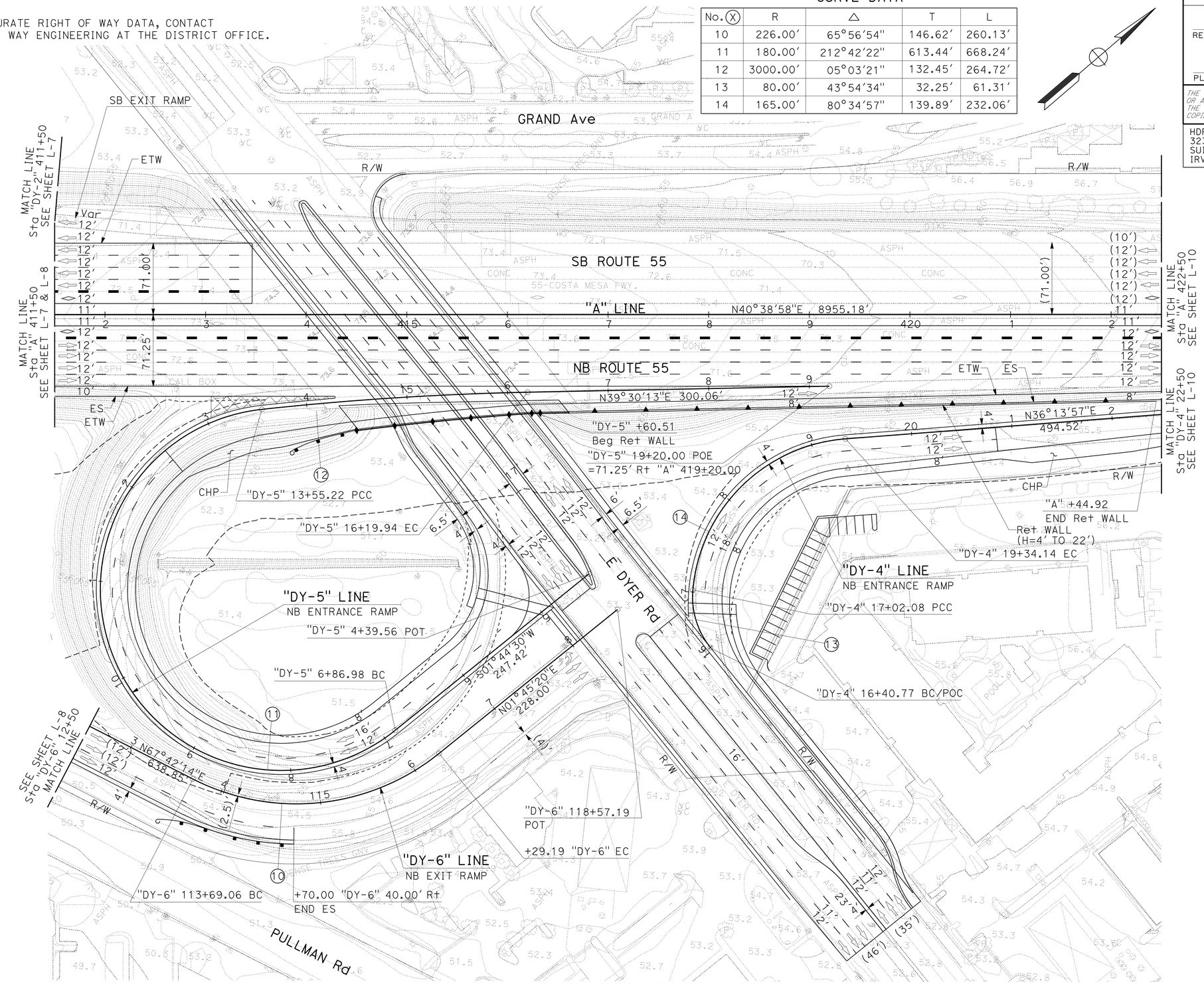
ORANGE, CA 92863-1584

NOTE:

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

CURVE DATA

No. (X)	R	Δ	T	L
10	226.00′	65°56′54″	146.62′	260.13′
11	180.00′	212°42′22″	613.44′	668.24′
12	3000.00′	05°03′21″	132.45′	264.72′
13	80.00′	43°54′34″	32.25′	61.31′
14	165.00′	80°34′57″	139.89′	232.06′



NOT FOR CONSTRUCTION

ALTERNATIVE 1
LAYOUT
SCALE: 1" = 50′

L-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA
CALCULATED-DESIGNED BY: SHIVA WOOTON
CHECKED BY: LIEM A. NGUYEN
REVISED BY
DATE REVISED

LAST REVISION XX-XX-XX
DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 08:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

REGISTERED CIVIL ENGINEER DATE

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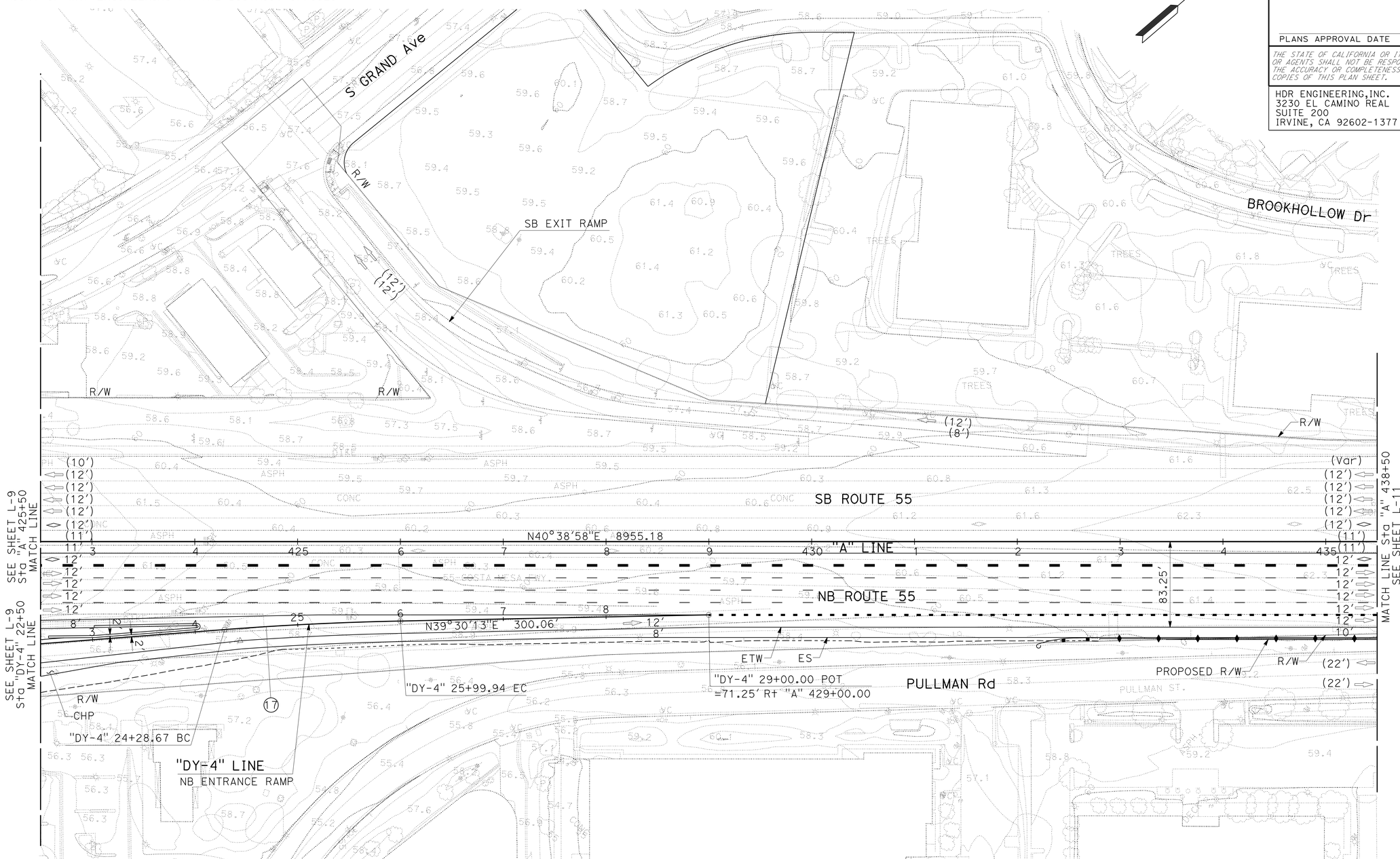

CURVE DATA

No. (X)	R	Δ	T	L
17	3000.00'	03°16'16"	85.66'	171.27'

NOT FOR CONSTRUCTION

ALTERNATIVE 1
LAYOUT
SCALE: 1" = 50'

L-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA

CALCULATED-DESIGNED BY: SHIVA WOOTON

CHECKED BY: LIEM A. NGUYEN

REVISED BY | DATE REVISED

LAST REVISION: XX-XX-XX

DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 08:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

REGISTERED CIVIL ENGINEER DATE

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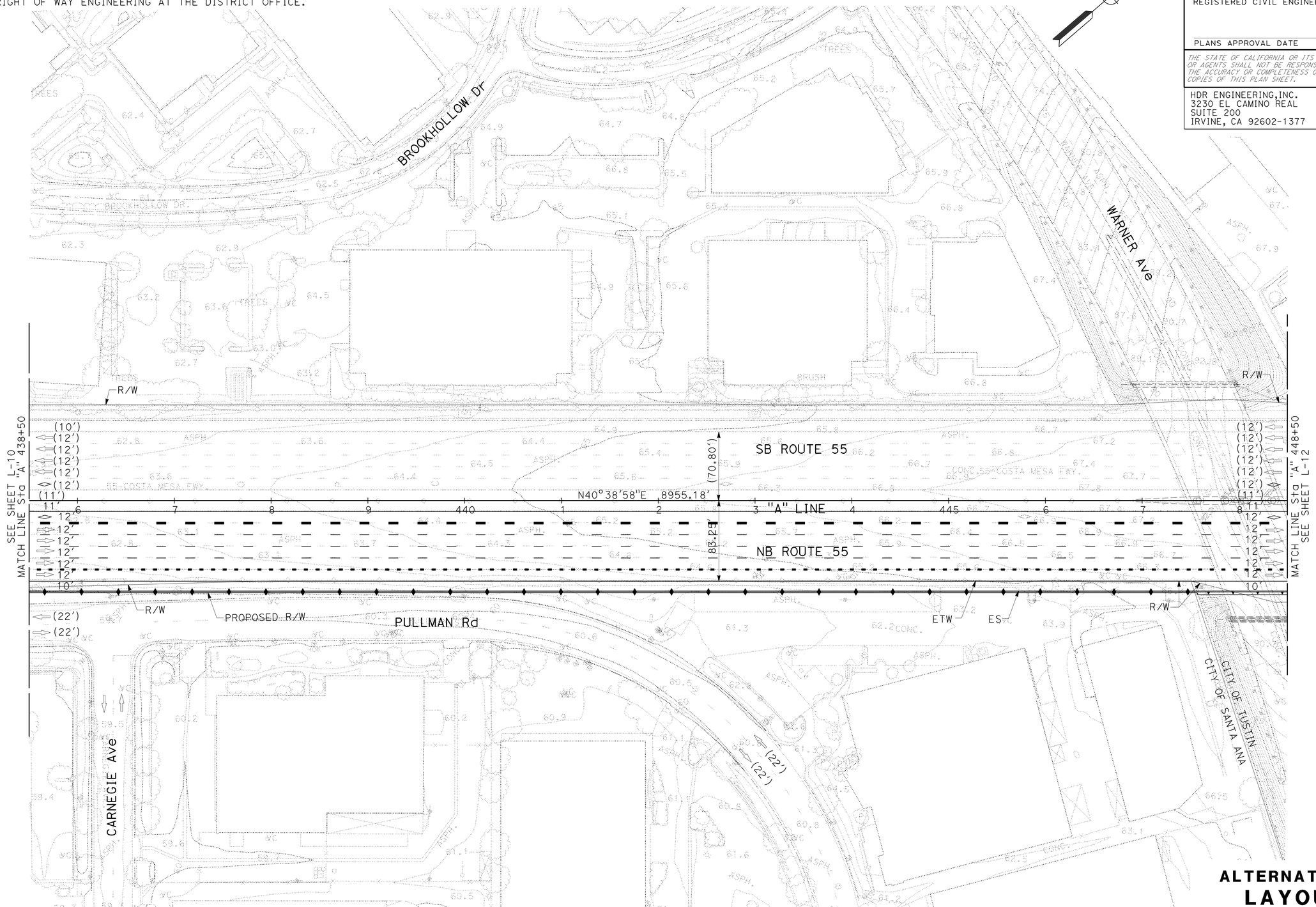

ALTERNATIVE 1

LAYOUT

SCALE: 1" = 50'

NOT FOR CONSTRUCTION

L-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA

CALCULATED-DESIGNED BY: SHIVA WOOTON

CHECKED BY: LIEM A. NGUYEN

REVISED BY

DATE REVISED

LAST REVISION XX-XX-XX

DATE PLOTTED => 08-OCT-2015

TIME PLOTTED => 08:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

REGISTERED CIVIL ENGINEER DATE

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NOTE:

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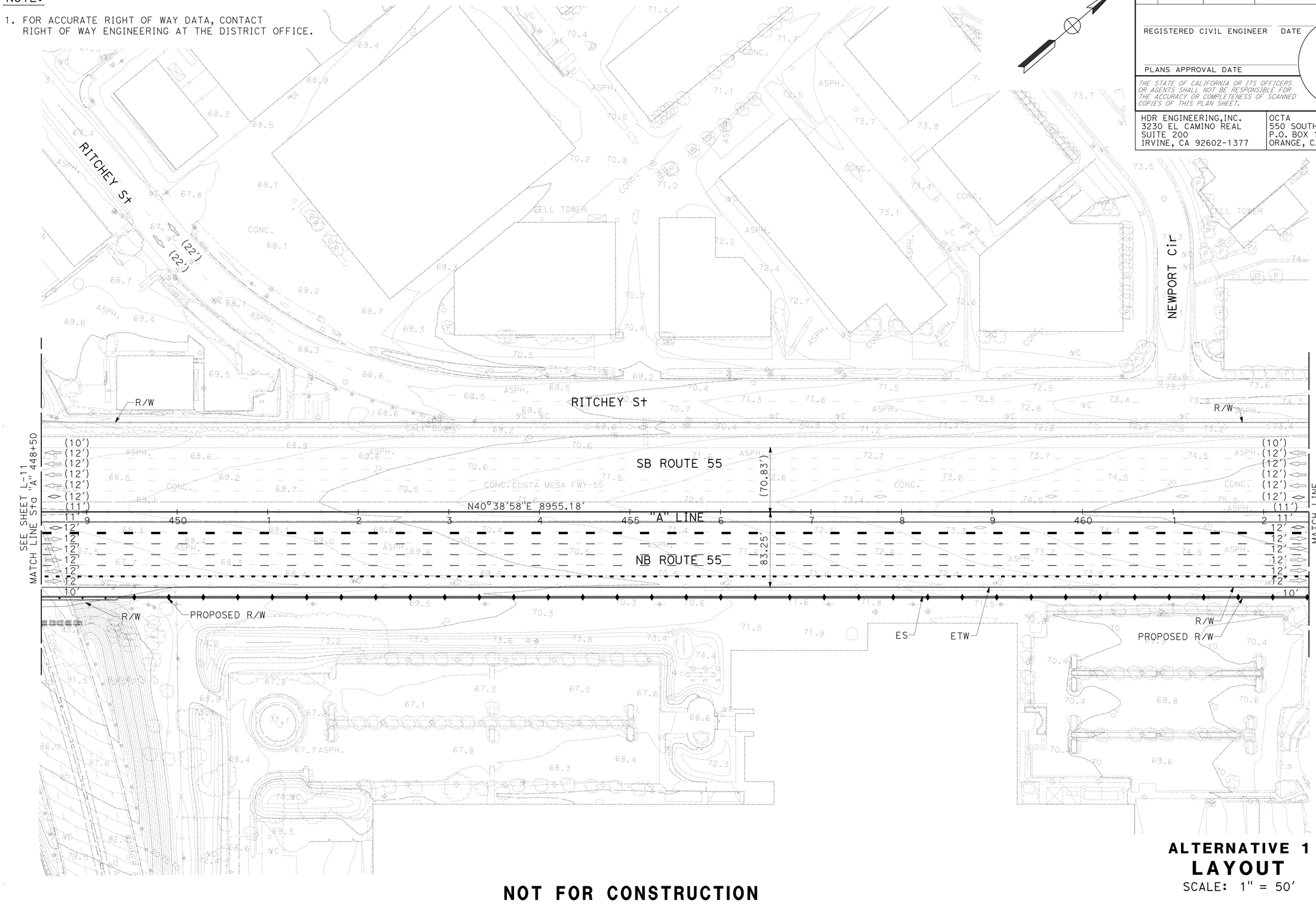

ALTERNATIVE 1

LAYOUT

SCALE: 1" = 50'

NOT FOR CONSTRUCTION

L-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA

CALCULATED-DESIGNED BY: SHIVA WOOTON

CHECKED BY: LIEM A. NGUYEN

REVISED BY

DATE REVISED

LAST REVISION XX-XX-XX

DATE PLOTTED => 08-OCT-2015

TIME PLOTTED => 08:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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NOTE:

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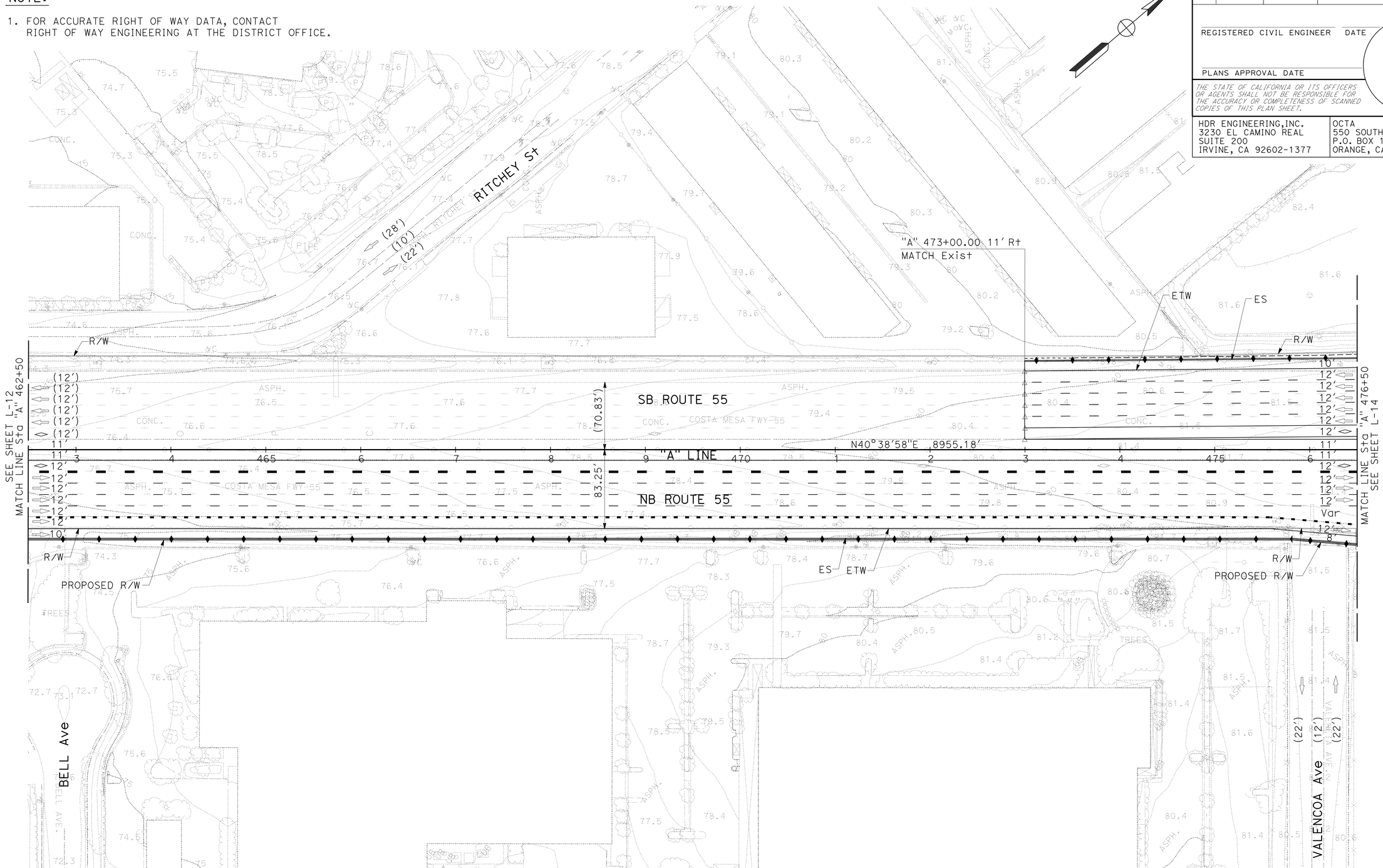

ALTERNATIVE 1

LAYOUT

SCALE: 1" = 50'

NOT FOR CONSTRUCTION

L-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA

CALCULATED-DESIGNED BY: SHIVA WOOTON

CHECKED BY: LIEM A. NGUYEN

REVISED BY

DATE REVISED

LAST REVISION XX-XX-XX

DATE PLOTTED => 08-OCT-2015

TIME PLOTTED => 08:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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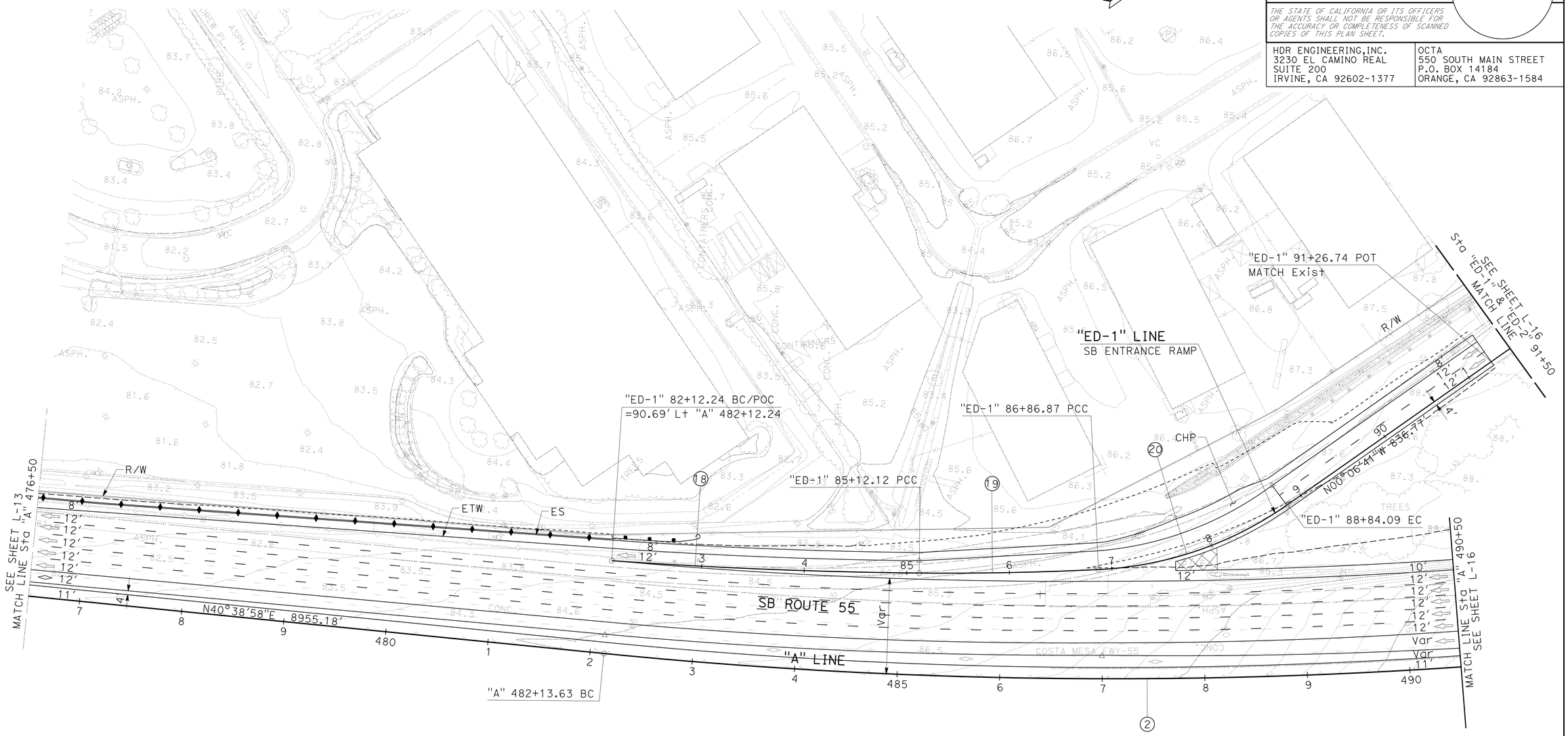
HDR ENGINEERING,INC.
3230 EL CAMINO REAL
SUITE 200
IRVINE, CA 92602-1377

OCTA
550 SOUTH MAIN STREET
P.O. BOX 14184
ORANGE, CA 92863-1584

NOTE:

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



SEE SHEET 15

CURVE DATA

No. (X)	R	△	T	L
2	5000.00'	39°58'14"	1818.39'	3488.07'
18	4902.94'	03°30'16"	149.98'	299.88'
19	3000.00'	03°20'15"	87.40'	174.76'
20	350.00'	32°17'06"	101.30'	197.22'

NOT FOR CONSTRUCTION

ALTERNATIVE 1
LAYOUT
SCALE: 1" = 50'

L-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA

CALCULATED-DESIGNED BY: SHIVA WOOTON
CHECKED BY: LIEM A. NGUYEN

REVISED BY
DATE REVISED

LAST REVISION XX-XX-XX
DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 08:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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

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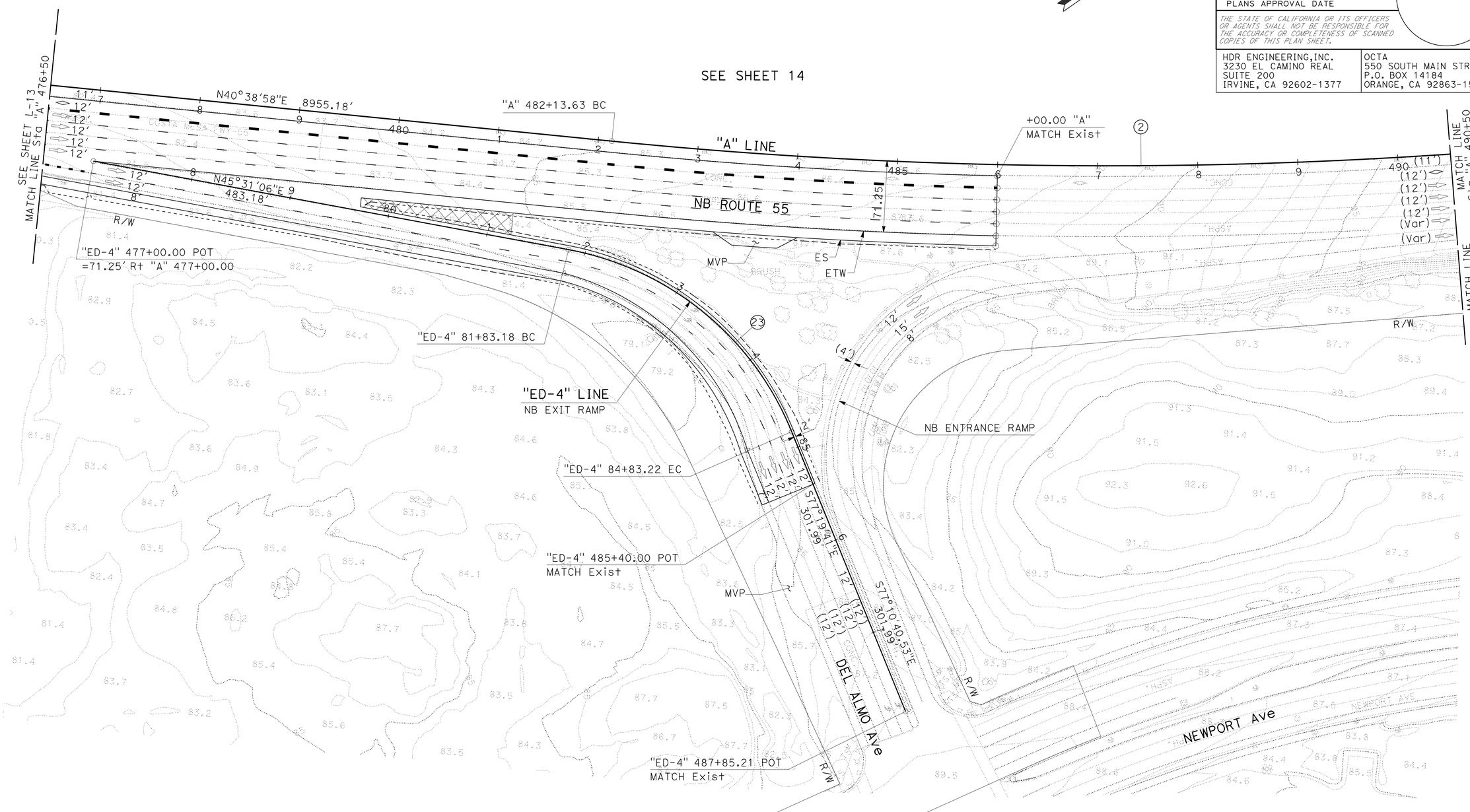

CURVE DATA

No. (X)	R	△	T	L
2	5000.00'	39°58'14"	1818.39'	3488.07'
23	300.00'	57°18'13"	163.92'	300.04'

NOT FOR CONSTRUCTION

ALTERNATIVE 1
LAYOUT
SCALE: 1" = 50'

L-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA
CALCULATED-DESIGNED BY: SHIVA WOOTON
CHECKED BY: LIEM A. NGUYEN
REVISED BY
DATE REVISED

LAST REVISION XX-XX-XX
DATE PLOTTED => 08-OCT-2015
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

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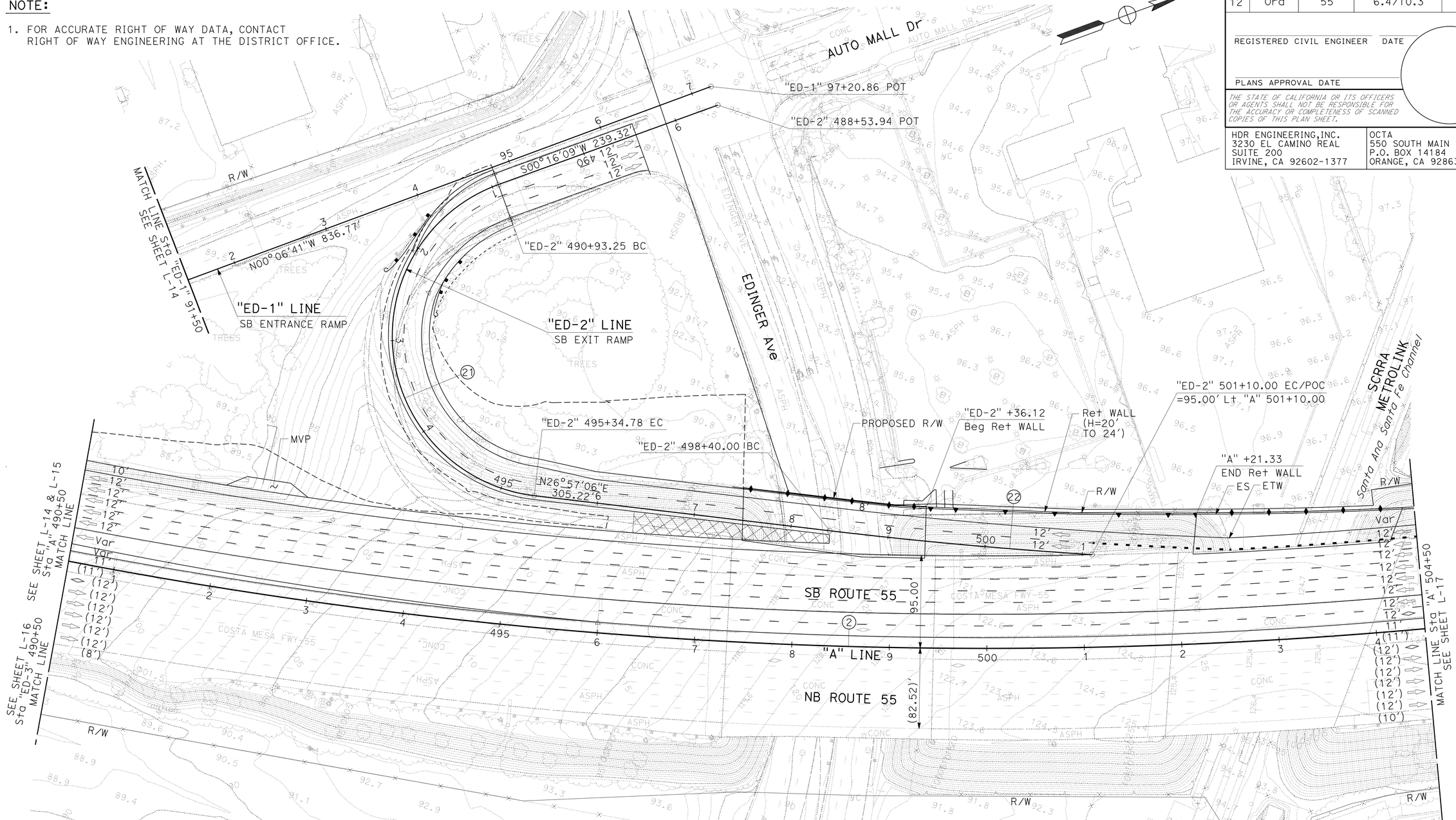

CURVE DATA

No. (X)	R	△	T	L
2	5000.00'	39°58'14"	1818.39'	3488.07'
21	165.00'	153°19'03"	695.76'	441.52'
22	4905.00'	03°09'14"	135.03'	270.00'

ALTERNATIVE 1
LAYOUT
SCALE: 1" = 50'

NOT FOR CONSTRUCTION

L-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA
CALCULATED-DESIGNED BY: SHIVA WOOTON
CHECKED BY: LIEM A. NGUYEN
REVISED BY
DATE REVISED

LAST REVISION XX-XX-XX
DATE PLOTTED => 08-OCT-2015
TIME PLOTTED => 08:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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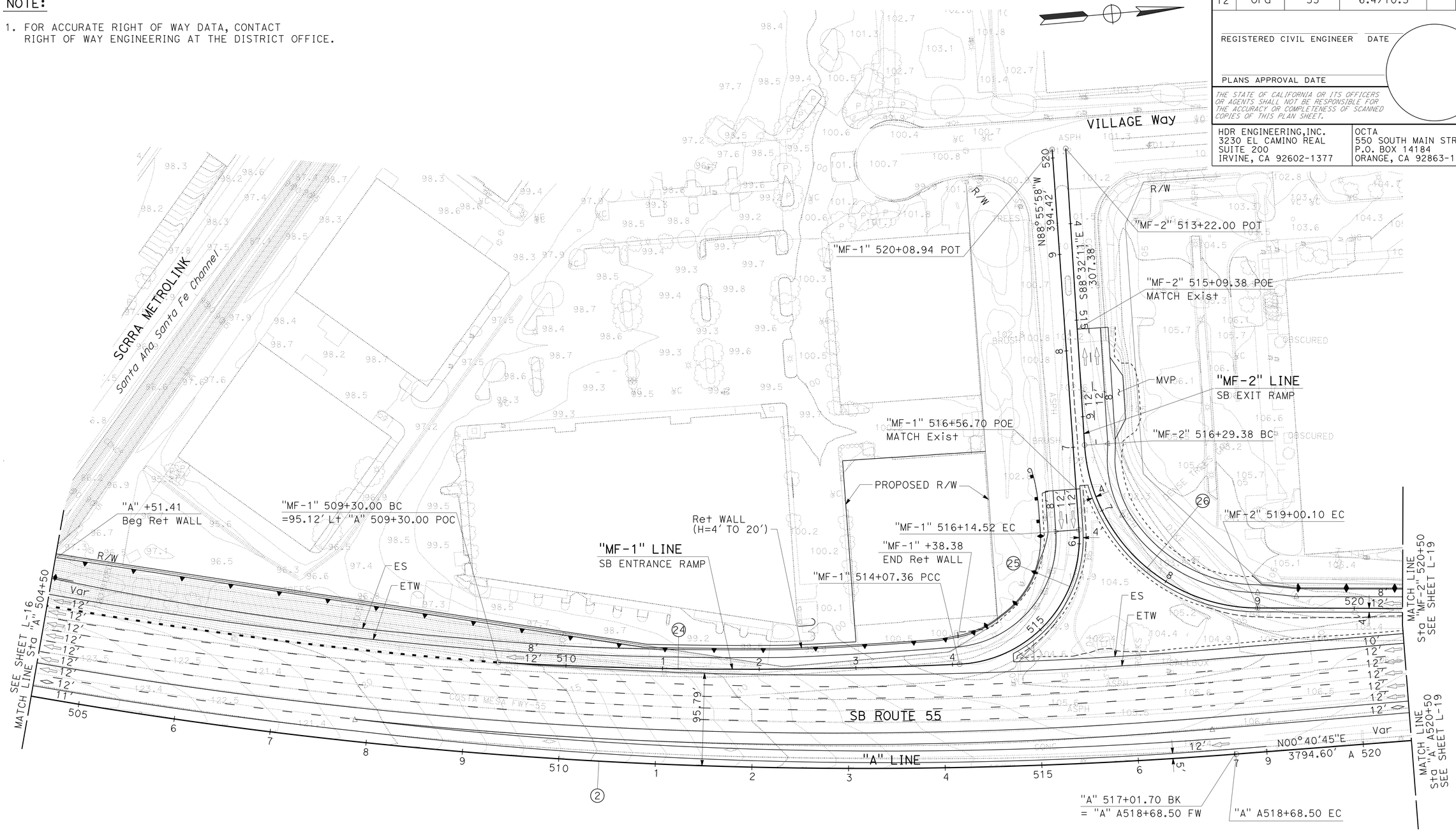

CURVE DATA

No. (X)	R	△	T	L
2	5000.00'	39°58'14"	1818.39'	3488.07'
24	4628.00'	05°54'36"	238.89'	477.36'
25	130.00'	91°18'00"	132.98'	207.15'
26	180.00'	86°10'18"	168.36'	270.72'

SEE SHEET 18

NOT FOR CONSTRUCTION

ALTERNATIVE 1
LAYOUT
SCALE: 1" = 50'

L-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA
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CHECKED BY: LIEM A. NGUYEN
REVISED BY
DATE REVISED

LAST REVISION XX-XX-XX
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NO WORK ON THIS SHEET

NOTE:

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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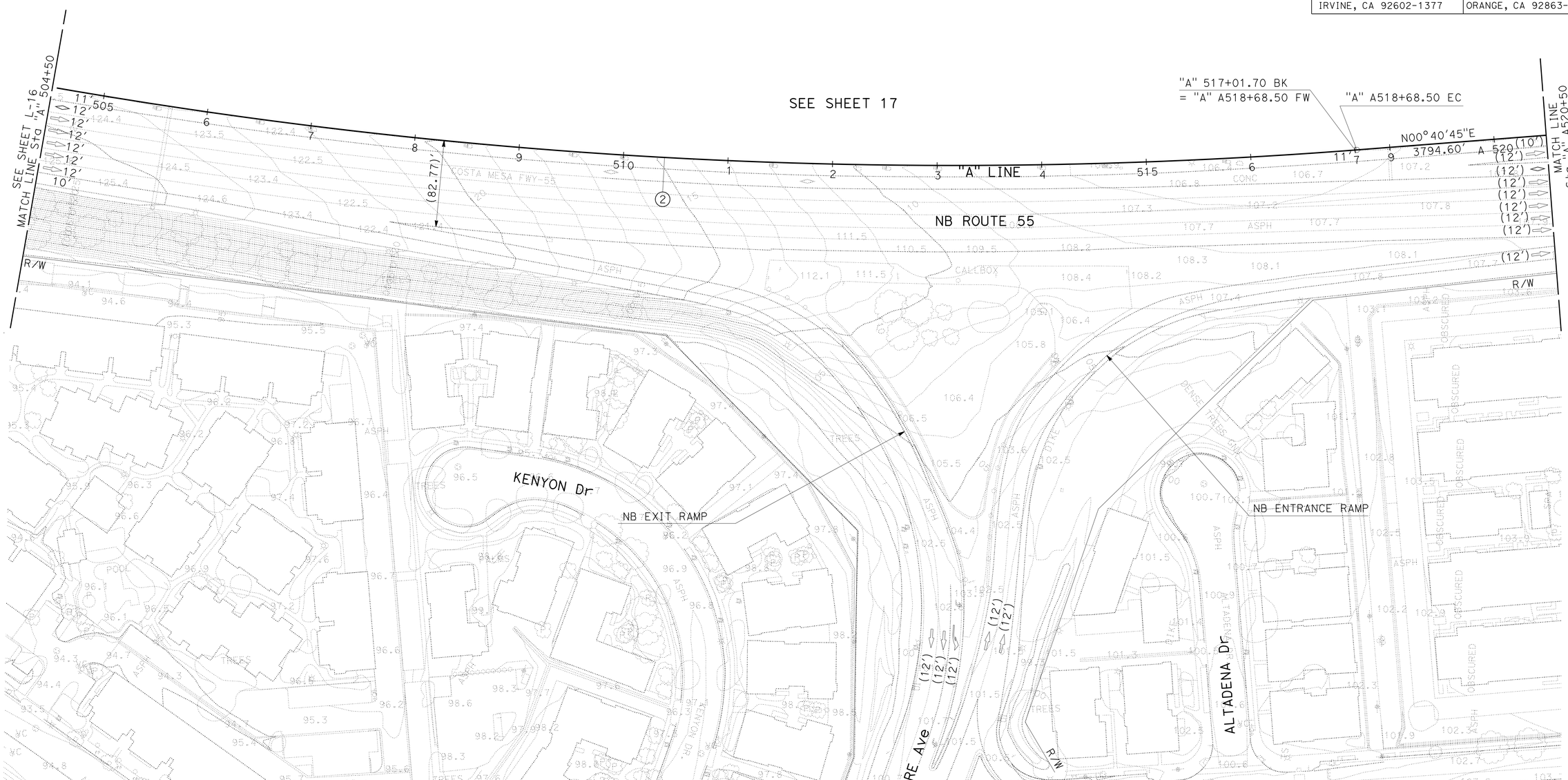

CURVE DATA

No. (X)	R	Δ	T	L
2	5000.00′	39°58′14″	1818.39′	3488.07′

ALTERNATIVE 1
LAYOUT
SCALE: 1″ = 50′

NOT FOR CONSTRUCTION

L-18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA
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REVISED BY
DATE REVISED

LAST REVISION XX-XX-XX
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55	6.4/10.3		

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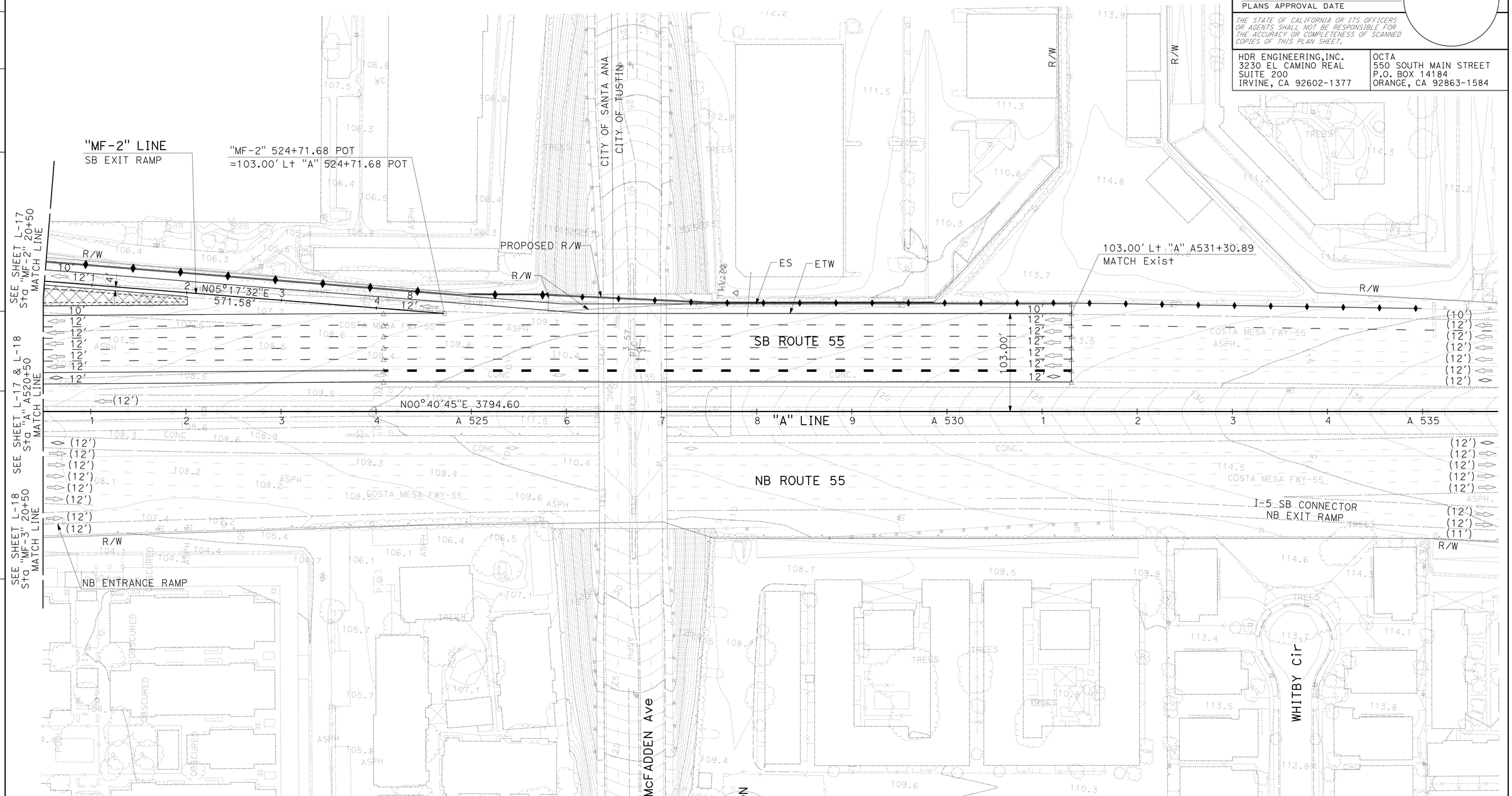

ALTERNATIVE 1
LAYOUT
SCALE: 1" = 50'

NOT FOR CONSTRUCTION

L-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAMILO ROCHA

CALCULATED-DESIGNED BY: SHIVA WOOTON

CHECKED BY: LIEM A. NGUYEN

REVISED BY

DATE REVISED

LAST REVISION

DATE PLOTTED => 08-OCT-2015

TIME PLOTTED => 08:36

XX-XX-XX