Appendix G Preliminary Design Layouts

This page intentionally left blank

NOTES:

1. FOR COMPLETE RIGHT-OF-WAY AND ACCURATE ACCESS DATA, SEE RIGHT-OF-WAY RECORD MAPS AT DISTRICT OFFICE
2. REFER TO THE TITLE SHEET FOR SURVEY CONTROL NOTES.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	74	1.0/3.0	11	200

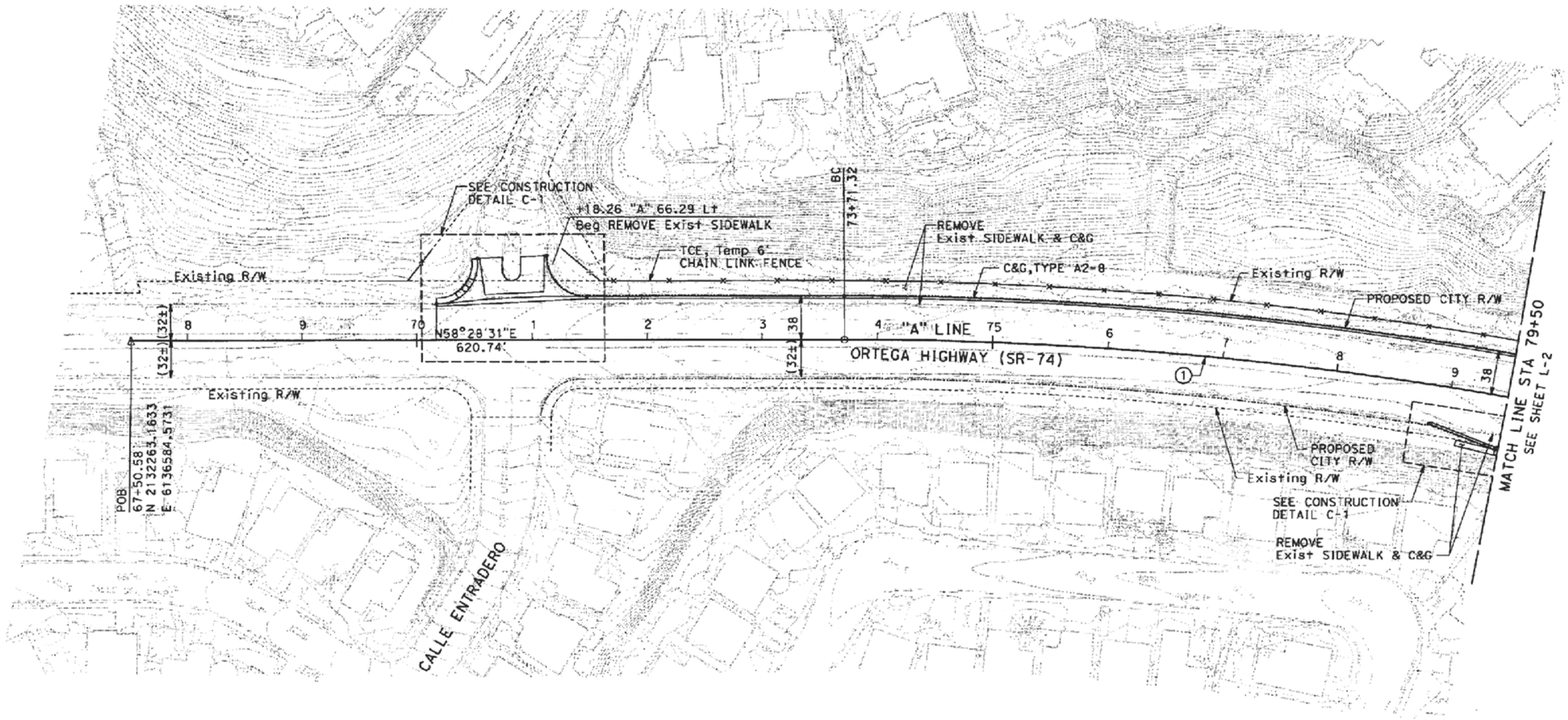
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — BRUCE A. SCHMITH — No. C 65551 — Exp 9-30-07 — CIVIL — STATE OF CALIFORNIA

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

HDR Engineering, Inc.
3230 El Camino Real, Suite 200
Irvine, CA 92602



CURVE DATA				
NO.	R	Δ	T	L
①	3350.00	15°44'42.76"	463.22	920.60

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ALTERNATIVE 1

SCALE: 1" = 50

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERV: BRUCE A. SCHMITH

CALCULATED-DESIGNED BY: BULBUL GANGULY

CHECKED BY: LIEM NGUYEN

REVISED BY: HCL

DATE REVISED:

LAST REVISION: 00-00-00

DATE PLOTTED => 7/12/2007
TIME PLOTTED => 10:52:07 AM

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => USER
DGN FILE => ...\c086904ea01.dgn

CU 00000

EA 086904

This page intentionally left blank

NOTES:

1. FOR COMPLETE RIGHT-OF-WAY AND ACCURATE ACCESS DATA, SEE RIGHT-OF-WAY RECORD MAPS AT DISTRICT OFFICE
2. REFER TO THE TITLE SHEET FOR SURVEY CONTROL NOTES.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	74	1.0/3.0	12	200

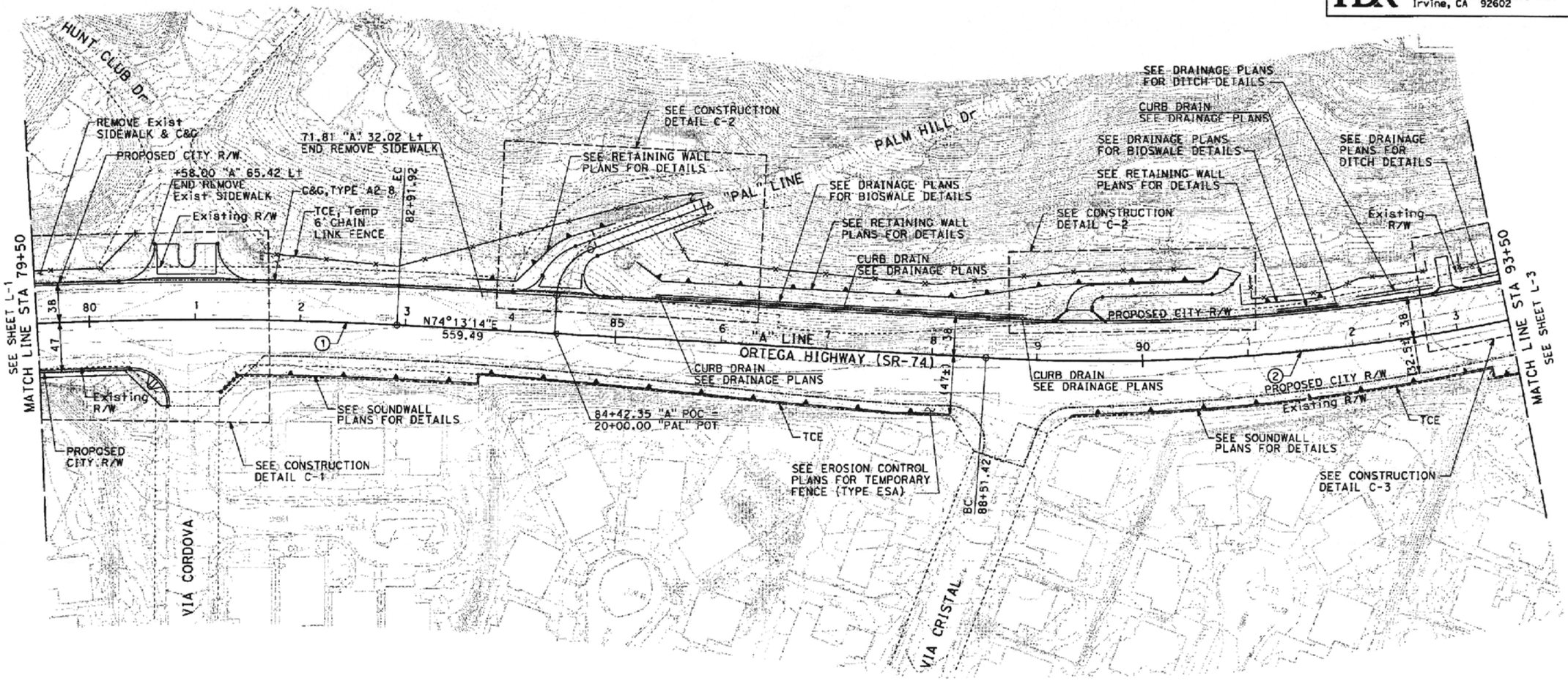
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — BRUCE A. SCHMITH — No. C 65551 — Exp. 9-30-07 — CIVIL — STATE OF CALIFORNIA

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

HDR Engineering, Inc.
3230 El Camino Real, Suite 200
Irvine, CA 92602



CURVE DATA				
NO.	R	Δ	T	L
①	3350.00	15°44'42.76"	463.22	920.60
②	1900.00	15°13'37.47"	253.97	504.95

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ALTERNATIVE 1

SCALE: 1" = 50

L-2

REVISED BY	DATE REVISED
BULBUL GANGULY	LIEM NGUYEN

CALCULATED-DESIGNED BY | CHECKED BY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | CONSULTANT FUNCTIONAL SUPERV | BRUCE A. SCHMITH

Caltrans

DATE PLOTTED => >DATE
TIME PLOTTED => 11:21:16 AM
LAST REVISION 00-00-00

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => USER | DGN FILE => ...\c086904ea02.dgn | CU 00000 | EA 086904

This page intentionally left blank

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	74	1.0/3.0	13	200

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

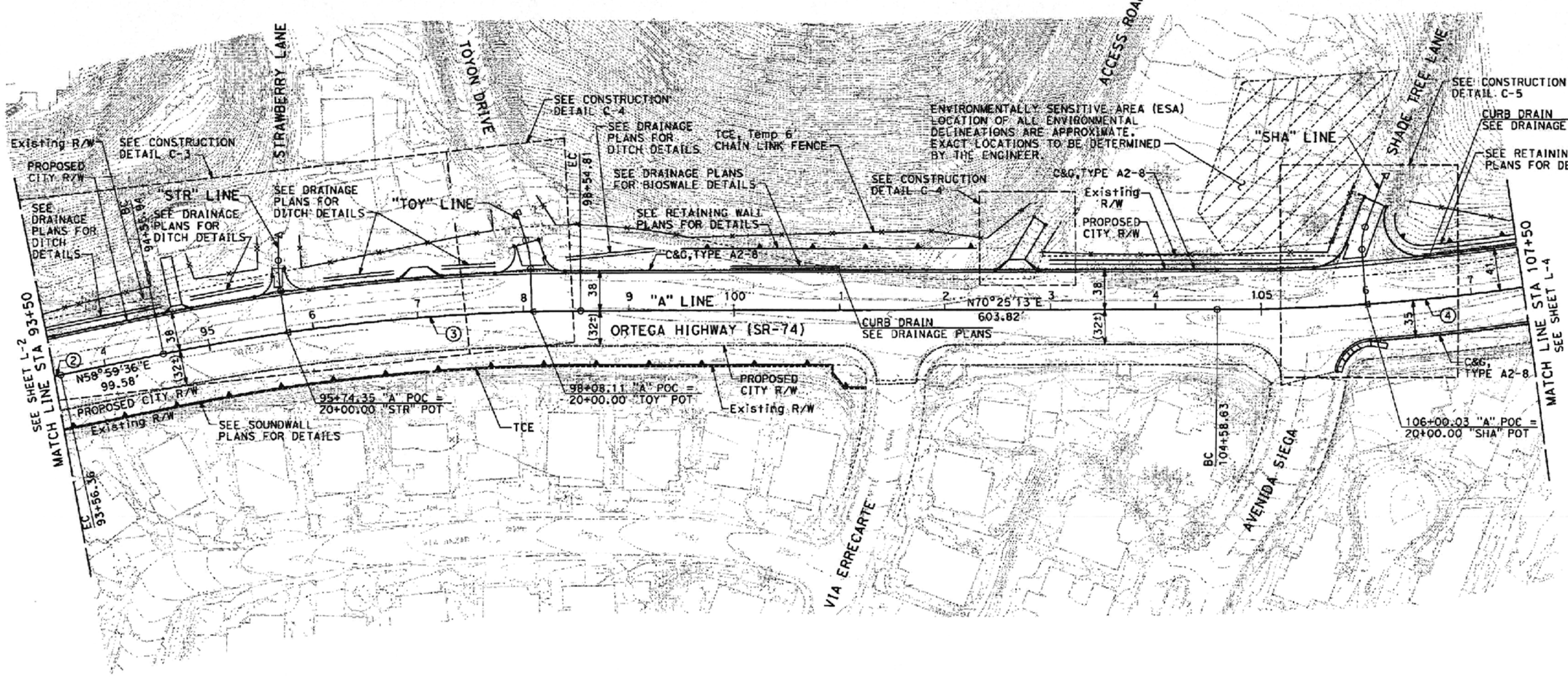
REGISTERED PROFESSIONAL ENGINEER — BRUCE A. SCHMITH — No. C 65551 — Exp. 9-30-07 — CIVIL — STATE OF CALIFORNIA

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

HDR Engineering, Inc.
3230 El Camino Real, Suite 200
Irvine, CA 92602

NOTES:

1. FOR COMPLETE RIGHT-OF-WAY AND ACCURATE ACCESS DATA, SEE RIGHT-OF-WAY RECORD MAPS AT DISTRICT OFFICE
2. REFER TO THE TITLE SHEET FOR SURVEY CONTROL NOTES.



CURVE DATA				
NO.	R	Δ	T	L
②	1900.00	15°13'37.47"	253.97	504.95
③	2000.00	11°25'36.68"	200.10	398.87
④	2000.00	17°21'33.05"	305.31	605.95

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ALTERNATIVE 1

SCALE: 1" = 50

L-3

CALCULATED-DESIGNED BY	CHECKED BY
BULBUL GANGULY	LIEM NGUYEN

REVISED BY	DATE REVISED
HCL	

CONSULTANT FUNCTIONAL SUPERV: BRUCE A. SCHMITH

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION: 00-00-00 — DATE PLOTTED => 7/12/2007 — TIME PLOTTED => 10:52:39 AM

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => USER | DGN FILE => ...\c086904ea03.dgn | CU 00000 | EA 086904

This page intentionally left blank

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	74	1.0/3.0	14	200

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

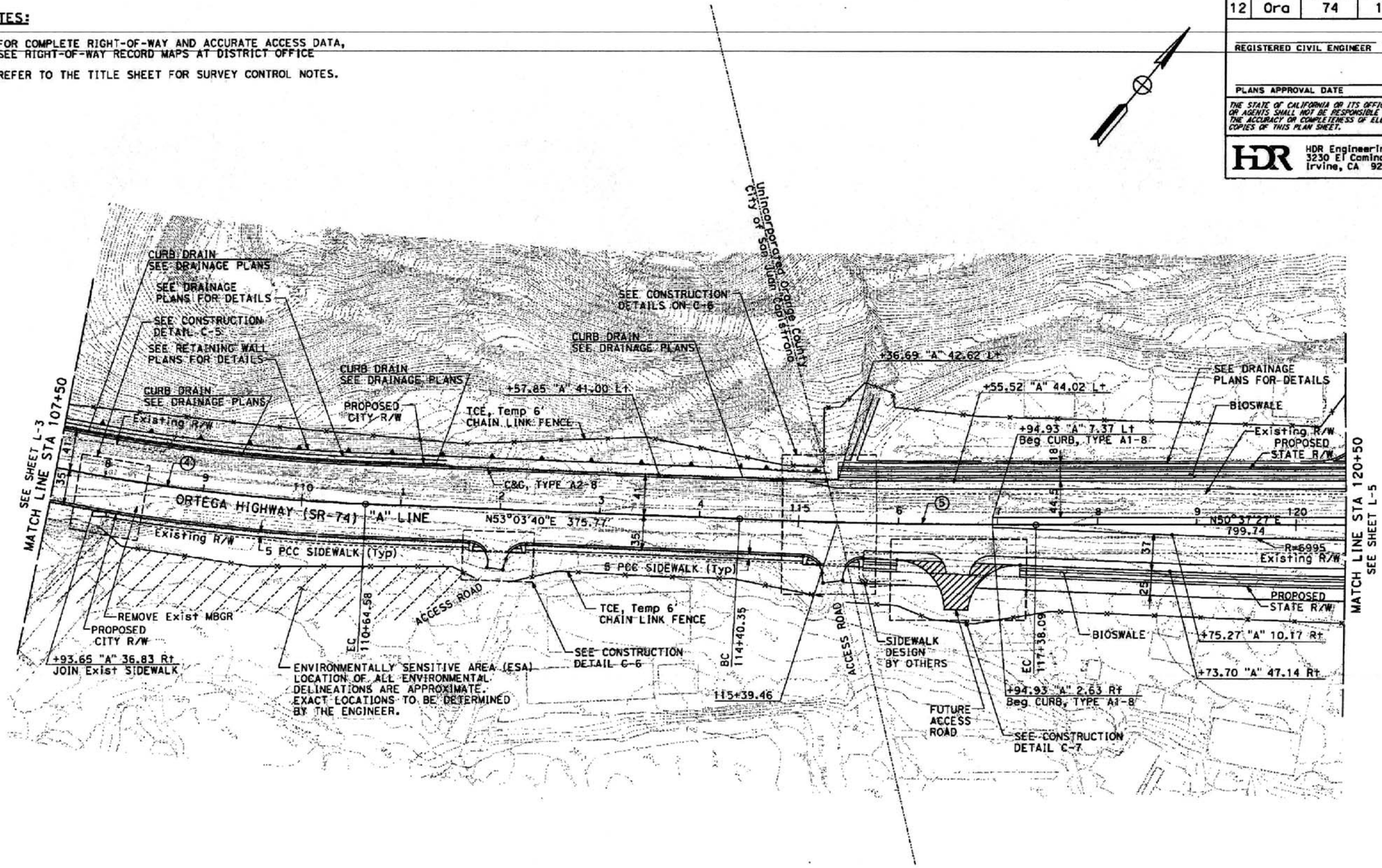
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER — BRUCE A. SCHMITH — No. C 65551 — Exp. 9-30-07 — CIVIL — STATE OF CALIFORNIA

HDR Engineering, Inc.
3230 El Camino Real, Suite 200
Irvine, CA 92602

NOTES:

1. FOR COMPLETE RIGHT-OF-WAY AND ACCURATE ACCESS DATA, SEE RIGHT-OF-WAY RECORD MAPS AT DISTRICT OFFICE
2. REFER TO THE TITLE SHEET FOR SURVEY CONTROL NOTES.



CURVE DATA				
NO.	R	Δ	T	L
④	2000.00	17°21'33.05"	305.31	605.95
⑤	7000.00	2°26'13.36"	148.89	297.74

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ALTERNATIVE 1

SCALE: 1" = 50

L-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | CONSULTANT FUNCTIONAL SUPERV: BRUCE A. SCHMITH | CALCULATED-DESIGNED BY: BULBUL GANGULY | CHECKED BY: LIEM NGUYEN | REVISED BY: HCL | DATE REVISED:

LAST REVISION DATE PLOTTED => 7/12/2007
00-00-00 TIME PLOTTED => 10:53:00 AM

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => USER | DGN FILE => ...\c086904ea04.dgn | CU 00000 | EA 086904

This page intentionally left blank

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	74	1.0/3.0	3	200

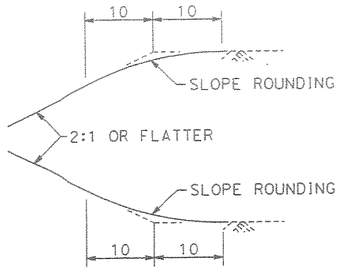
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

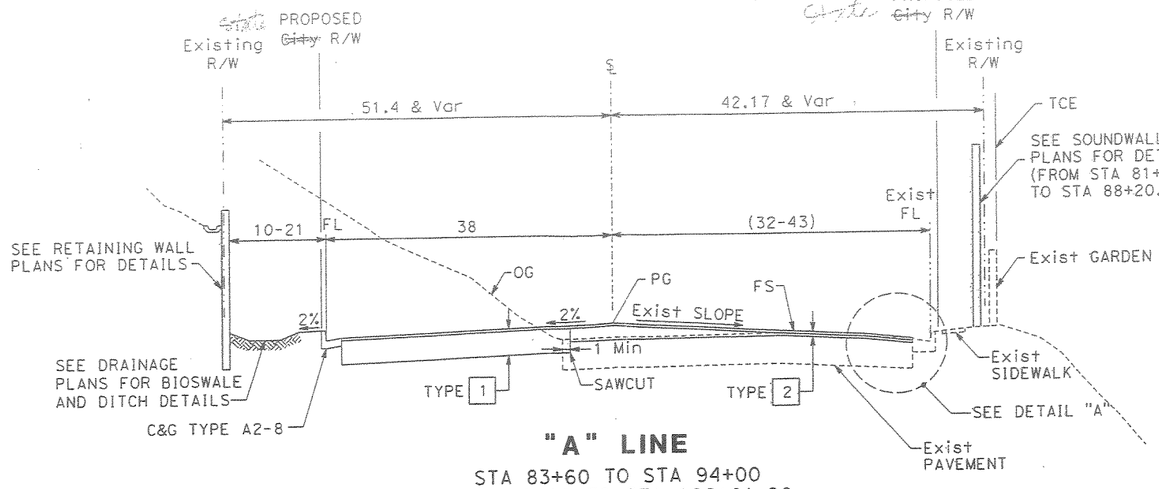
REGISTERED PROFESSIONAL ENGINEER — BRUCE A. SCHMITH — No. C 65551 — Exp. 9-30-07 — CIVIL — STATE OF CALIFORNIA

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

HDR Engineering, Inc.
3230 El Camino Real, Suite 200
Irvine, CA 92602



SLOPE ROUNDING DETAIL
(TYPICAL)



"A" LINE
STA 83+60 TO STA 94+00
STA 100+00 TO STA 106+01.90

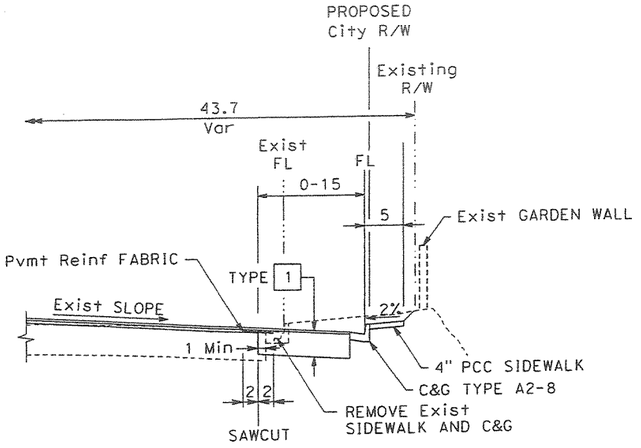
NOTES:

1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. FOR LOCATIONS OF CURB AND GUTTER, DIKE AND MBGR, SEE LAYOUT AND SUMMARY OF QUANTITIES SHEETS.
4. FOR VARIATIONS IN TYPICAL CROSS SECTIONS, REFER TO LAYOUT, CONSTRUCTION DETAILS, PAVEMENT CONSTRUCTION AND REMOVAL AND PAVEMENT DELINEATION PLANS.
5. CURB AND GUTTER, DRIVEWAY, AND DIKE SHOULD BE PLACED ON NATIVE SUBGRADE MOISTURE CONDITIONED TO A MINIMUM OF 3% OVER OPTIMUM MOISTURE CONTENT AND COMPACTED TO 90% COMPACTION.
6. CONVENTIONAL OVERLAY IS TO BE USED INSTEAD OF RAC OVERLAY WITHIN 100 FEET IN ALL DIRECTIONS OF THE ANTIONIO/LA PATA AND ORTEGA HIGHWAY INTERSECTION.
7. CLEAN AND FILL ALL EXPOSED CRACKS WIDER THAN 1/8".
8. THE JOINTS BETWEEN THE EXISTING PAVEMENT AND THE NEW PAVEMENT SHALL BE SEALED. A LAYER OF PRIME COAT IS TO BE APPLIED BETWEEN ALL BONDED AND UNBONDED LAYERS. A LAYER OF THICK COAT SHALL BE APPLIED TO ALL VERTICAL CUT FACES AND BETWEEN SUBSEQUENT AC LIFTS.
9. COLD MILL NORTHBOUND LANES OF LA PATA FROM ORTEGA HIGHWAY TO 200 SOUTHERLY, 0.35 BELOW PRESENT ELEVATIONS AND OVERLAY 0.35 AC BASE, TYPE III B3-PG 64-10.

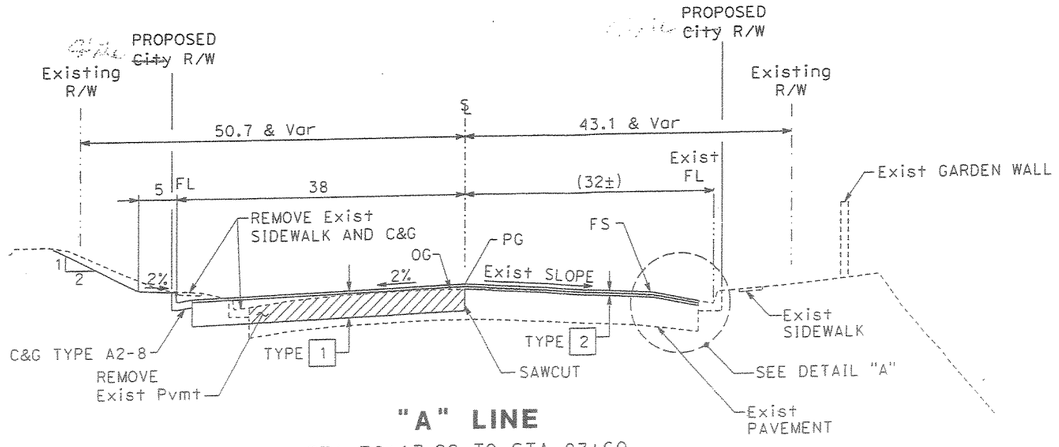
DESIGN DESIGNATION (SR-74)

2005 ADT= 24,000 D=52%
2030 ADT= 42,000 T=8.0%
DHV= 3,390 V=45 MPH
TI_{20}= 13
ESAL= 21,800,000

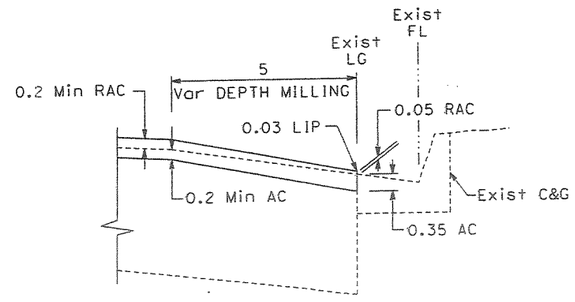
STRUCTURAL SECTIONS	
TYPE 1	0.2 Min RUBBERIZED ASPHALT CONCRETE (RAC), TYPE G
	1.55 AC BASE, TYPE A, 3/4" MAX
TYPE 2	0.2 Min RAC, TYPE G
	0.2 Min MILL AND AC BASE, TYPE A, 3/4" MAX
TYPE 3	CLEAN SURFACE AND OVERLAY 0.2 Min ARHM, TYPE GG-B(3/4") - PG 64-16
TYPE 4	0.2 Min ARHM, TYPE GG-B(3/4") - PG 64-16
	0.9 AC BASE, TYPE III B3-PG 64-10
TYPE 5	0.2 Min AC SURFACE, TYPE GG-B (3/4") - PG 64-16
	1.05 AC BASE, TYPE III B3-PG 64-10
TYPE 6	1.75 AC TYPE A, 3/4" MAX



STA 78+86.40 TO STA 80+37.33



"A" LINE
STA 70+17.22 TO STA 83+60



DETAIL A

LEGEND:

EXISTING PAVEMENT

NEW PAVEMENT

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN

TYPICAL CROSS SECTIONS

NO SCALE

X-1

CALCULATED-DESIGNED BY: BULBUL GANGULY
CHECKED BY: LIEM NGUYEN
REVISED BY | DATE REVISED
HCL
CONSULTANT FUNCTIONAL SUPERV: BRUCE A. SCHMITH
DEPARTMENT OF TRANSPORTATION
STATE OF CAL

LAST REVISION 00-00-00 | DATE PLOTTED => 9DATE | TIME PLOTTED => 12:09:20 PM

USERNAME =>USER

CU 00000 EA 086904

This page intentionally left blank

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	74	1.0/3.0	4	200

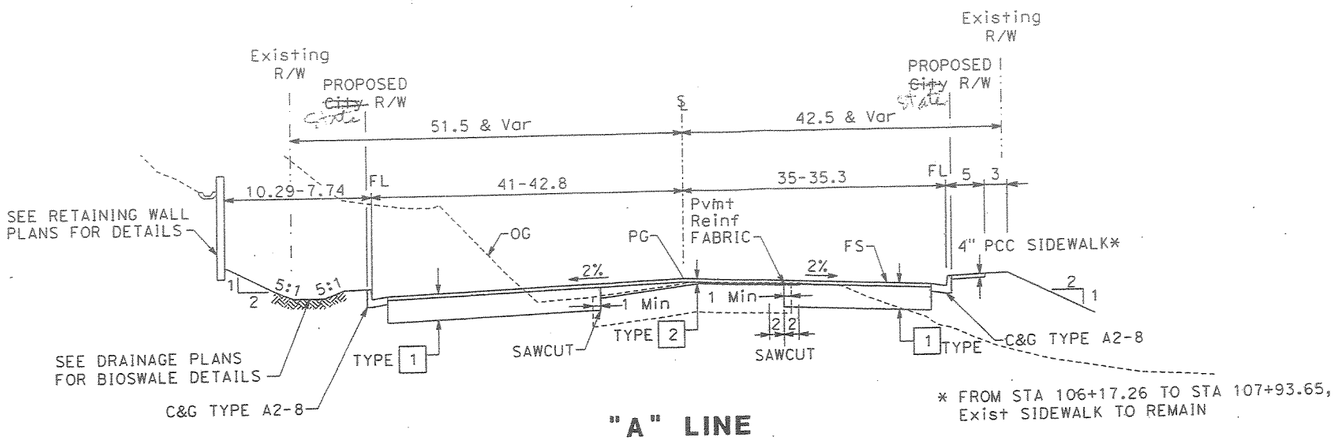
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
BRUCE A. SCHMITH
No. C 65551
Exp. 9-30-07
CIVIL
STATE OF CALIFORNIA

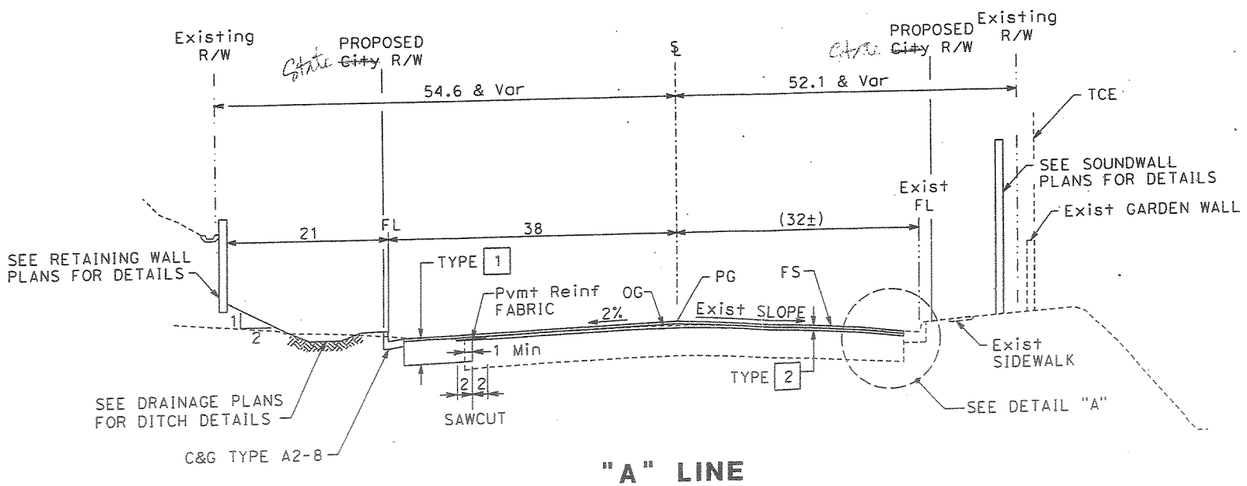
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

HDR Engineering, Inc.
3230 El Camino Real, Suite 200
Irvine, CA 92602



"A" LINE

STA 106+01.90 TO STA 115+39.46



"A" LINE

STA 94+00 TO STA 100+00

LEGEND:

EXISTING PAVEMENT

NEW PAVEMENT

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

TYPICAL CROSS SECTIONS

NO SCALE

X-2

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
BULBUL GANGULY	LIEM NGUYEN	HCL	

CONSULTANT FUNCTIONAL SUPERV
BRUCE A. SCHMITH

DEPARTMENT OF TRANSPORTATION
STATE OF CAL

Caltrans

LAST REVISION | DATE PLOTTED => 7/12/2007

USERNAME => USER

CU 00000 | EA 086904

This page intentionally left blank

NOTES:

1. FOR COMPLETE RIGHT-OF-WAY AND ACCURATE ACCESS DATA, SEE RIGHT-OF-WAY RECORD MAPS AT DISTRICT OFFICE
2. REFER TO THE TITLE SHEET FOR SURVEY CONTROL NOTES.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	74	1.08/1.94		

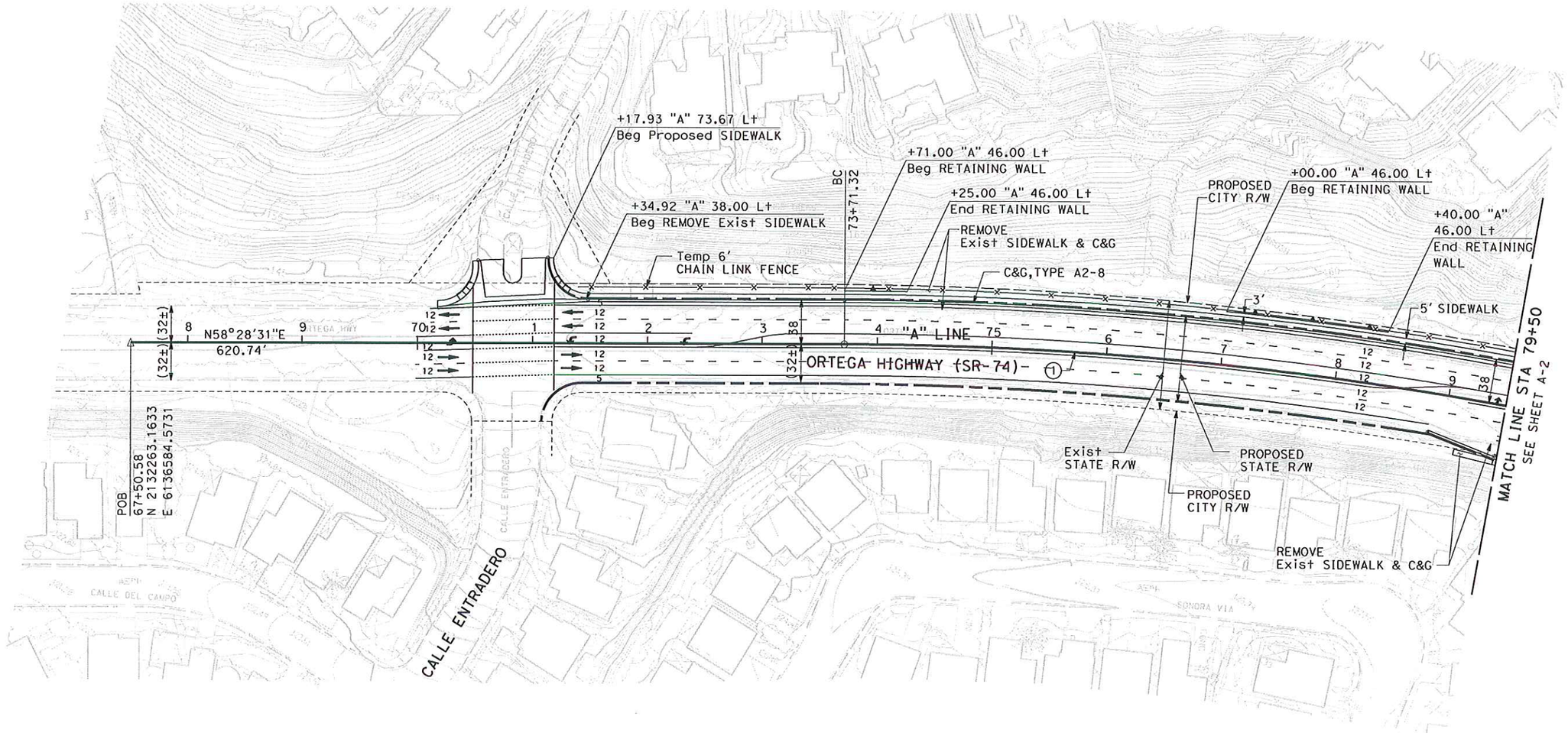
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
LIEM ANH NGUYEN
No. C 70728
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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

HDR Engineering, Inc.
3230 El Camino Real, Suite 200
Irvine, CA 92602



CURVE DATA				
NO.	R	Δ	T	L
①	3350.00	15°44'42.76"	463.22	920.60

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ALTERNATIVE 2

SCALE: 1" = 50

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: LAN SAADATNEJADI
CALCULATED-DESIGNED BY
CHECKED BY
BULBUL GANGULY
LIEM NGUYEN
REVISED BY
DATE REVISED
HCL
LAST REVISION
DATE PLOTTED =>

This page intentionally left blank

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	74	1.08/1.94		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

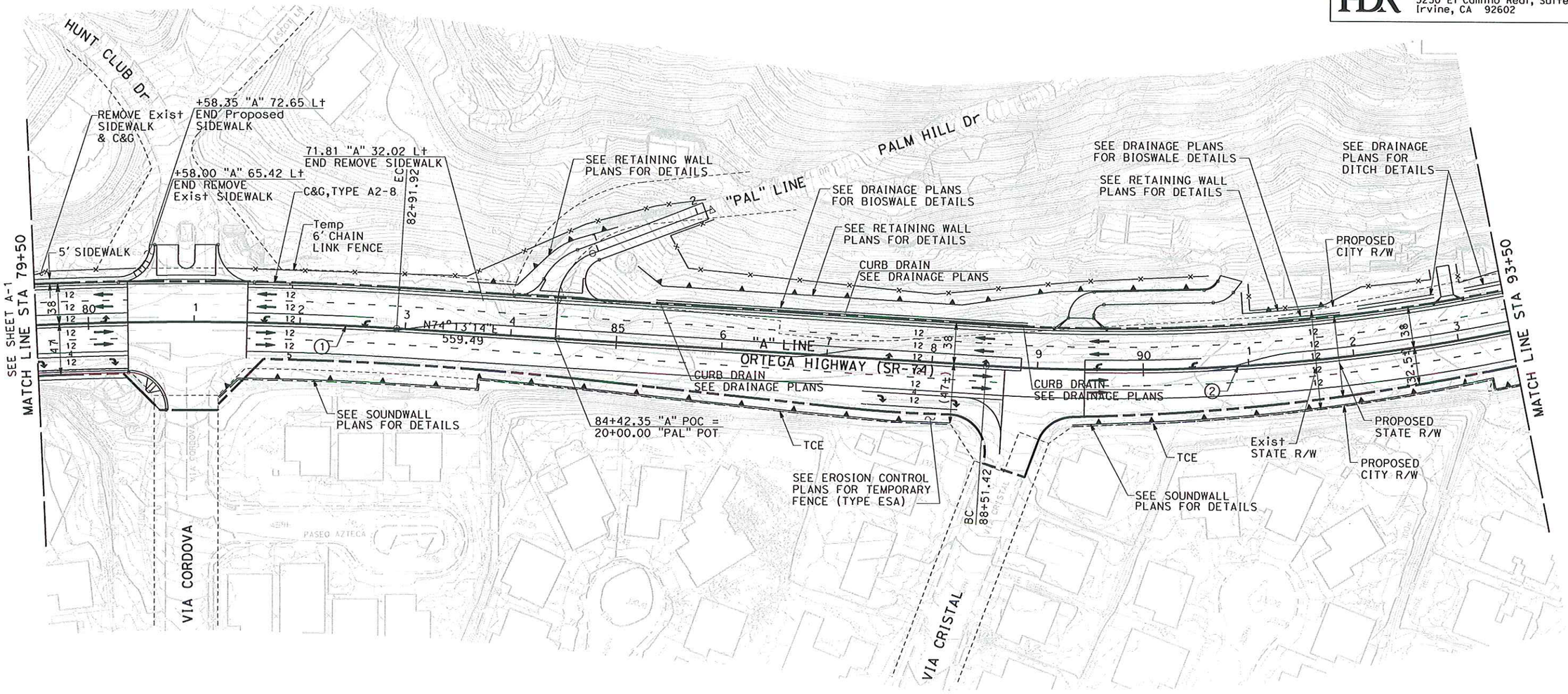
REGISTERED PROFESSIONAL ENGINEER LIEM ANH NGUYEN No. C 70728 Exp. 6-30-09 CIVIL STATE OF CALIFORNIA

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

HDR Engineering, Inc.
3230 El Camino Real, Suite 200
Irvine, CA 92602

NOTES:

1. FOR COMPLETE RIGHT-OF-WAY AND ACCURATE ACCESS DATA, SEE RIGHT-OF-WAY RECORD MAPS AT DISTRICT OFFICE
2. REFER TO THE TITLE SHEET FOR SURVEY CONTROL NOTES.



CURVE DATA				
NO.	R	△	T	L
①	3350.00	15°44'42.76"	463.22	920.60
②	1900.00	15°13'37.47"	253.97	504.95

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ALTERNATIVE 2

SCALE: 1" = 50

L-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LAN SAADATNEJADI

CALCULATED-DESIGNED BY: BULBUL GANGULY

CHECKED BY: LIEM NGUYEN

REVISED BY: HCL

DATE REVISED

LAST REVISION DATE PLOTTED => 2/26/2008

This page intentionally left blank

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	74	1.0/3.0	13	200

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

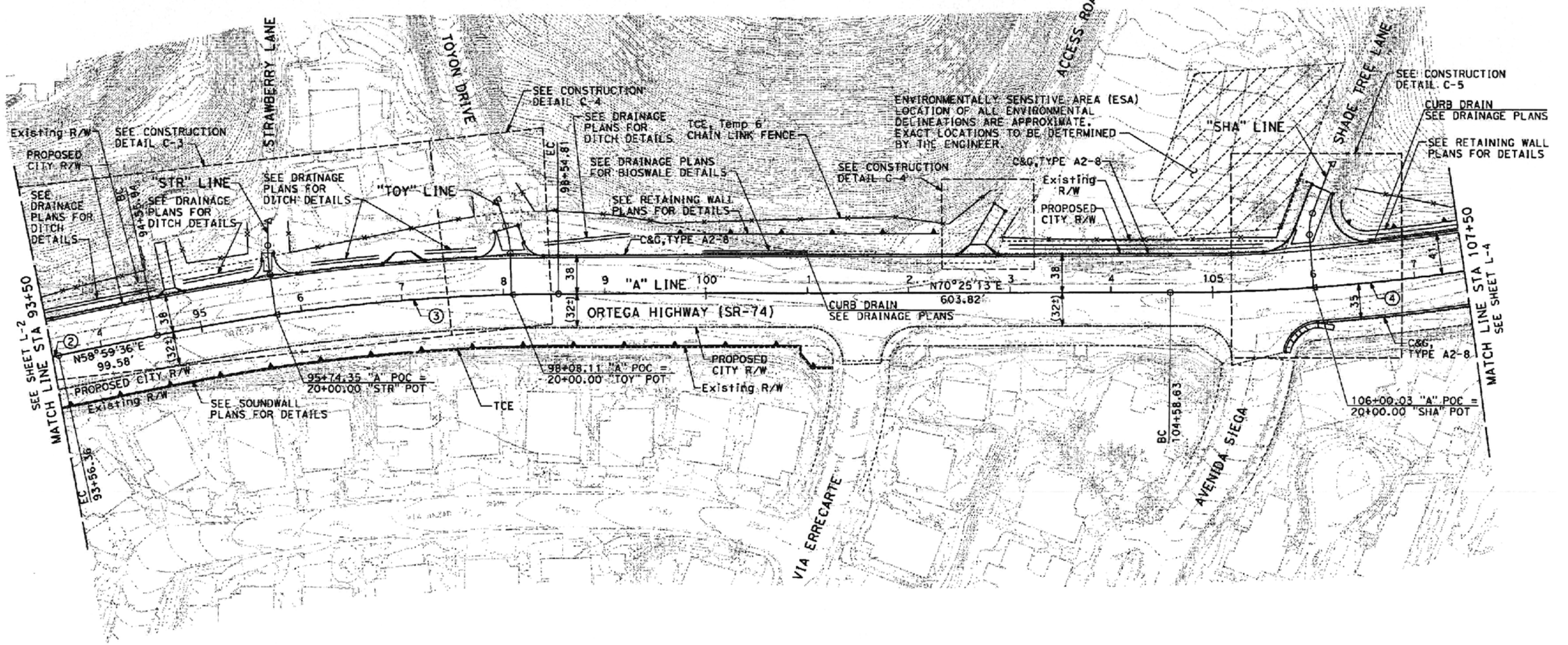
BRUCE A. SCHMITH No. C 65551 Exp. 9-30-07 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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

HDR Engineering, Inc.
3230 El Camino Real, Suite 200
Irvine, CA 92602

NOTES:

1. FOR COMPLETE RIGHT-OF-WAY AND ACCURATE ACCESS DATA, SEE RIGHT-OF-WAY RECORD MAPS AT DISTRICT OFFICE
2. REFER TO THE TITLE SHEET FOR SURVEY CONTROL NOTES.



CURVE DATA				
NO.	R	Δ	T	L
②	1900.00	15°13'37.47"	253.97	504.95
③	2000.00	11°25'36.68"	200.10	398.87
④	2000.00	17°21'33.05"	305.31	605.95

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ALTERNATIVE 2

SCALE: 1" = 50

L-3

REVISED BY	BULBUL GANGULY
DATE REVISED	LIEM NGUYEN
CALCULATED-DESIGNED BY	HCL
CHECKED BY	
CONSULTANT FUNCTIONAL SUPERV	BRUCE A. SCHMITH

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 — DATE PLOTTED => 7/12/2007 — TIME PLOTTED => 10:52:39 AM

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => USER | DGN FILE => ...\c086904ea03.dgn | CU 00000 | EA 086904

This page intentionally left blank

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	74	1.0/3.0	14	200

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

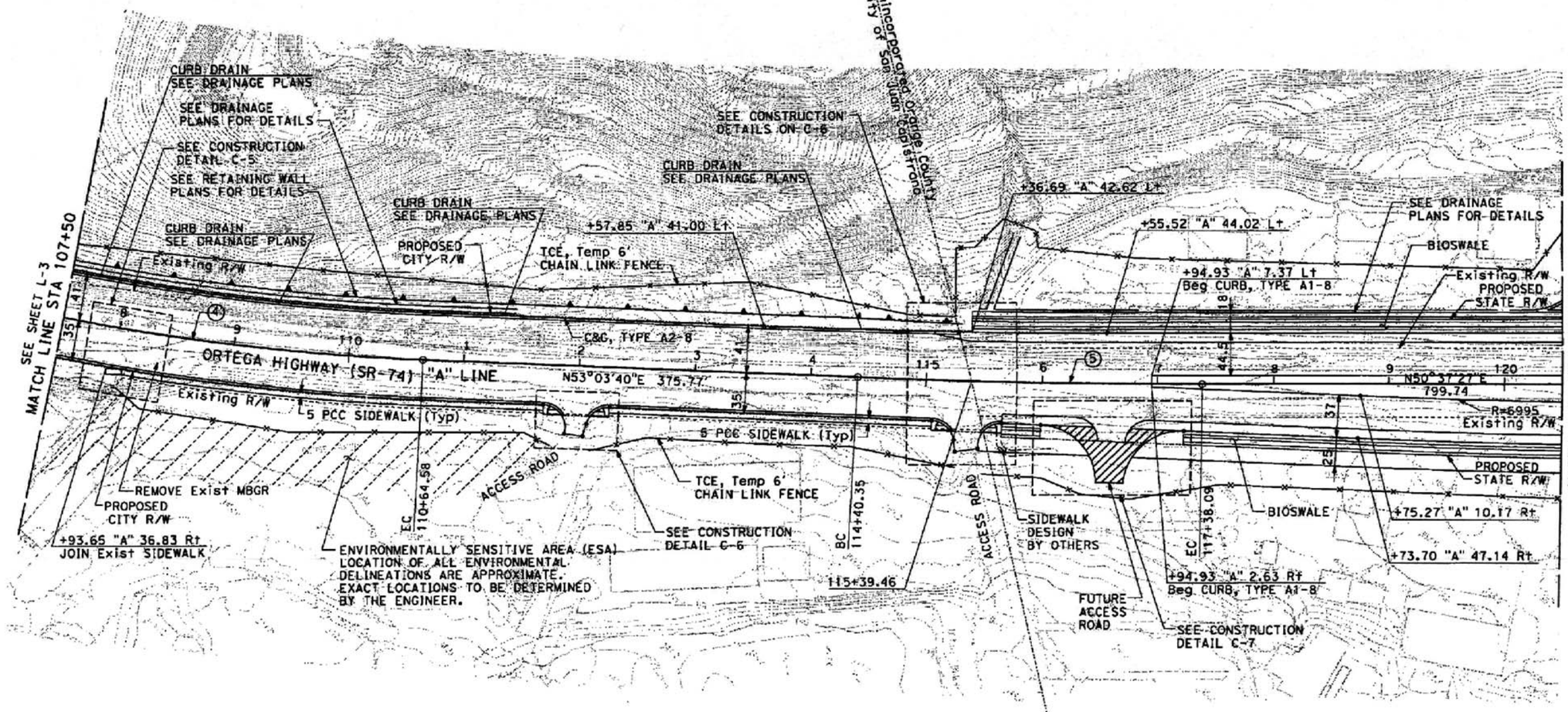
BRUCE A. SCHMITH No. C 65551 Exp. 9-30-07 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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

HDR Engineering, Inc.
3230 El Camino Real, Suite 200
Irvine, CA 92602

NOTES:

1. FOR COMPLETE RIGHT-OF-WAY AND ACCURATE ACCESS DATA, SEE RIGHT-OF-WAY RECORD MAPS AT DISTRICT OFFICE
2. REFER TO THE TITLE SHEET FOR SURVEY CONTROL NOTES.



CURVE DATA				
NO.	R	Δ	T	L
④	2000.00	17°21'33.05"	305.31	605.95
⑤	7000.00	2°26'13.36"	148.89	297.74

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ALTERNATIVE 2

SCALE: 1" = 50

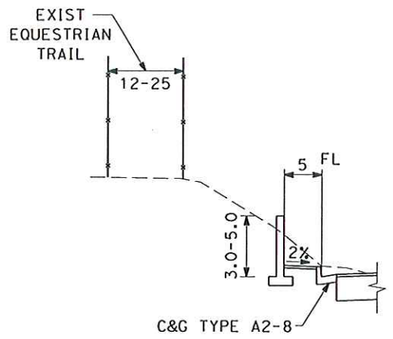
L-4

LAST REVISION 00-00-00 DATE PLOTTED => 7/12/2007 TIME PLOTTED => 10:53:00 AM

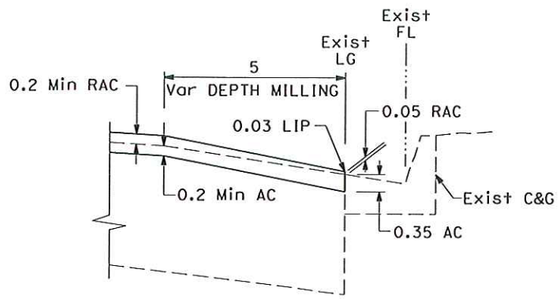
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | CONSULTANT FUNCTIONAL SUPERV: BRUCE A. SCHMITH | CALCULATED-DESIGNED BY: BULBUL GANGULY | CHECKED BY: LIEM NGUYEN | REVISED BY: HGL | DATE REVISED

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => USER | DGN FILE => ...\c086904ea04.dgn | CU 00000 | EA 086904

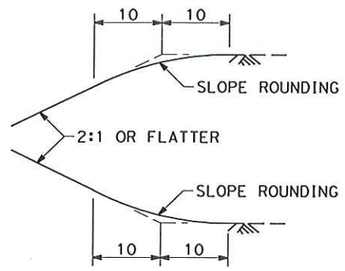
This page intentionally left blank



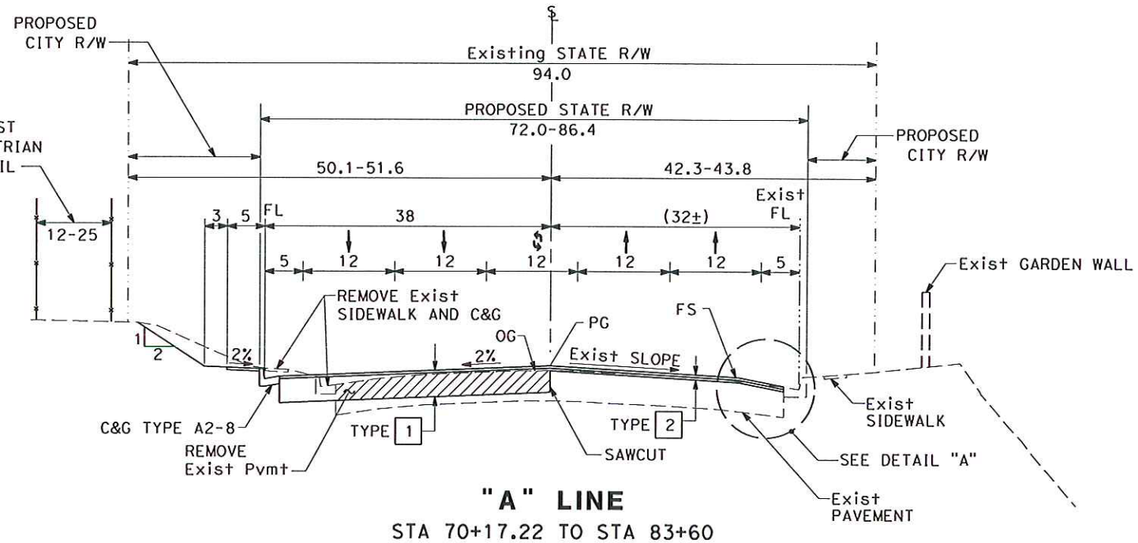
RETAINING WALL
STA 73+71.00 TO STA 74+25.00
STA 77+00.00 TO STA 78+40.00



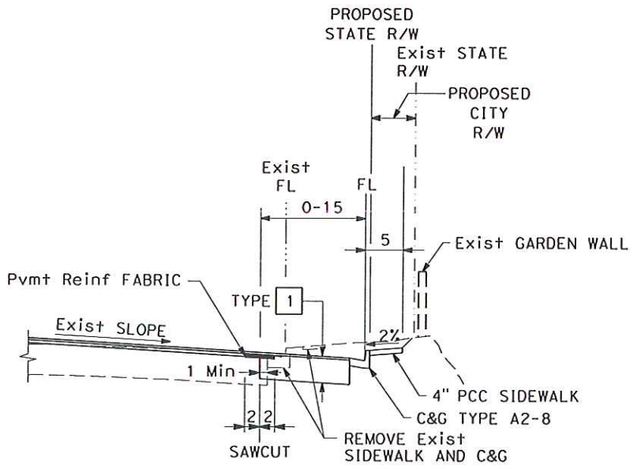
DETAIL A



SLOPE ROUNDING DETAIL
(TYPICAL)



"A" LINE
STA 70+17.22 TO STA 83+60



STA 78+86.40 TO STA 80+37.33

LEGEND:

- EXISTING PAVEMENT
- NEW PAVEMENT
- REMOVE EXISTING PAVEMENT

DESIGN DESIGNATION (SR-74)

2005 ADT= 24,000 D=52%
2030 ADT= 42,000 T=8.0%
DHV= 3,390 V=45 MPH
TI_{20}= 13
ESAL= 21,800,000

STRUCTURAL SECTIONS	
TYPE 1	0.2 Min RUBBERIZED ASPHALT CONCRETE (RAC), TYPE G
	1.55 AC BASE, TYPE A, ¾" MAX
TYPE 2	0.2 Min RAC, TYPE G
	0.2 Min MILL AND AC BASE, TYPE A, ¾" MAX
TYPE 3	1.75 AC TYPE A, ¾" MAX

NOTES:

1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. FOR LOCATIONS OF CURB AND GUTTER, DIKE AND MBGR, SEE LAYOUT AND SUMMARY OF QUANTITIES SHEETS.
3. FOR VARIATIONS IN TYPICAL CROSS SECTIONS, REFER TO LAYOUT, CONSTRUCTION DETAILS, PAVEMENT CONSTRUCTION AND REMOVAL AND PAVEMENT DELINEATION PLANS.
4. CURB AND GUTTER, DRIVEWAY, AND DIKE SHOULD BE PLACED ON NATIVE SUBGRADE MOISTURE CONDITIONED TO A MINIMUM OF 3% OVER OPTIMUM MOISTURE CONTENT AND COMPACTED TO 90% COMPACTION.
5. CLEAN AND FILL ALL EXPOSED CRACKS WIDER THAN ⅛".
6. THE JOINTS BETWEEN THE EXISTING PAVEMENT AND THE NEW PAVEMENT SHALL BE SEALED. A LAYER OF PRIME COAT IS TO BE APPLIED BETWEEN ALL BONDED AND UNBONDED LAYERS. A LAYER OF THICK COAT SHALL BE APPLIED TO ALL VERTICAL CUT FACES AND BETWEEN SUBSEQUENT AC LIFTS.

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN

ALTERNATIVE 2
TYPICAL CROSS SECTIONS

NO SCALE

X-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	74	1.08/1.94		

REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
LIEM ANH NGUYEN
No. C 70728
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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

HDR Engineering, Inc.
3230 El Camino Real, Suite 200
Irvine, CA 92602

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
BULBUL GANGULY	LIEM NGUYEN		

CONSULTANT FUNCTIONAL SUPERVISOR: LAN SAADATNEJADI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED =>2/25/2008

This page intentionally left blank