Appendix A Project Layout Sheets

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

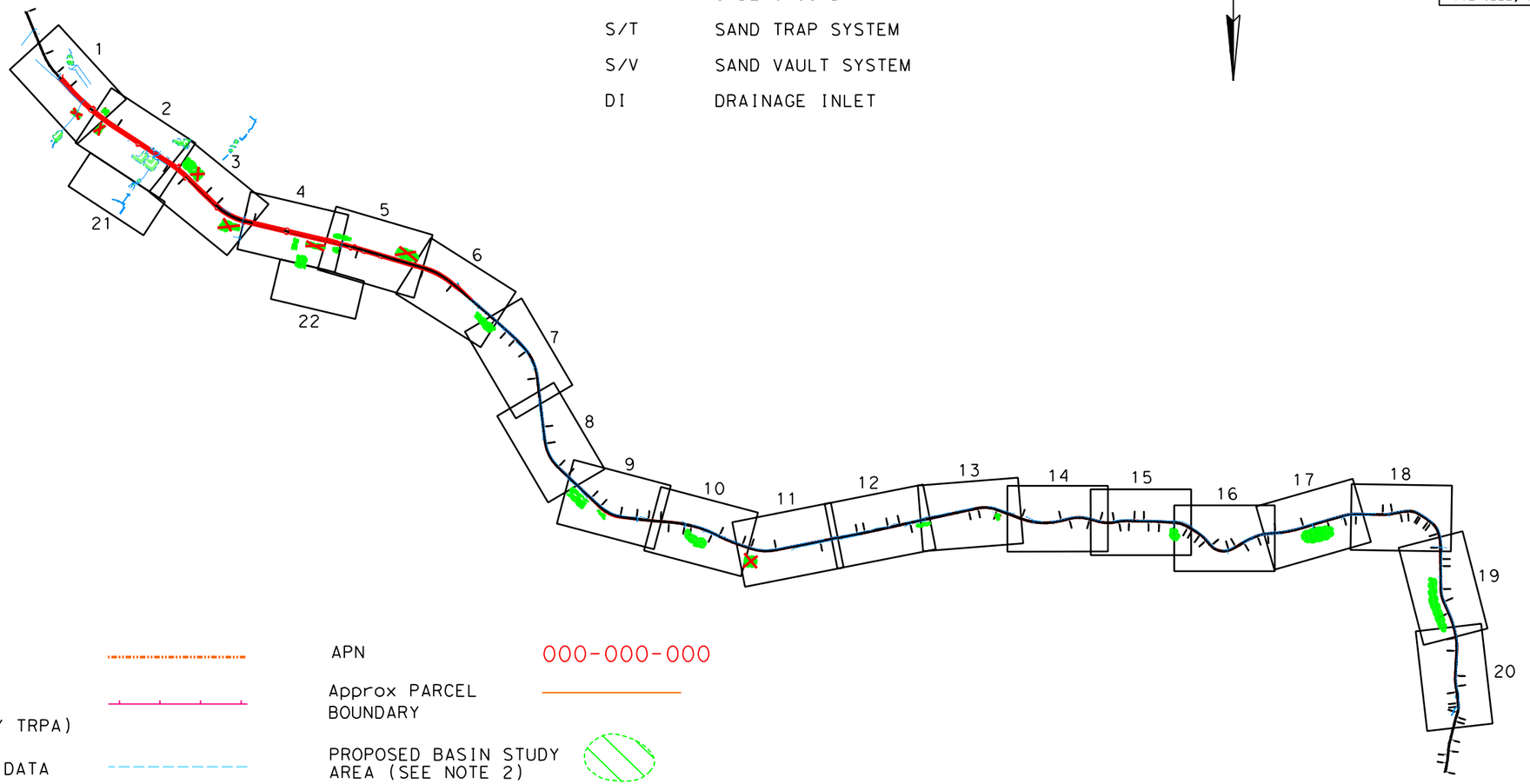
REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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

URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661

ABBREVIATIONS:

DMP	DRAINAGE MAINTENANCE PULLOUT
(P)	PROPOSED
UG	UNDERGROUND
S/T	SAND TRAP SYSTEM
S/V	SAND VAULT SYSTEM
DI	DRAINAGE INLET



LEGEND:

EXISTING R/W & EASEMENT

SEZ DELINEATION (FIELD VERIFIED BY TRPA)

BAILEY LAND CLASS DATA

ENVIRONMENTAL STUDY LIMITS

APN 000-000-000

Approx PARCEL BOUNDARY

PROPOSED BASIN STUDY AREA (SEE NOTE 2)

EXISTING BASIN

CULVERTS/DRAINAGE SYSTEMS

NOTES:

1. STATE RIGHT OF WAY DELINEATION SHOWN ON ESL LAYOUT SHEETS WAS PROVIDED BY CALTRANS ON 2/21/07. PRIVATE PARCEL AND LOCAL STREET DELINEATION SHOWN ON ESL LAYOUT SHEETS WAS PROVIDED BY CALTRANS ON 8/7/06 AND IS APPROXIMATE ONLY. CALTRANS R/W ENGINEERING WILL NEED TO ESTABLISH ACCURATE R/W MAPPING FOR ANY PARCELS REQUIRING R/W (PARTIAL OR FULL) AND/OR TEMPORARY CONSTRUCTION EASEMENTS (TCE).

2. PROPOSED BASIN STUDY AREA WILL CONSIDER NO PERMANENT IMPACTS TO EXISTING BIKE PATHS AND OTHER ENVIRONMENTALLY SENSITIVE AREAS.

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

KEYMAP

NO SCALE **K-1**

TO-U8 ESL LAYOUT SHEETS
EA 03-1A8420
(REVISION 5 DATED 11-15-07)

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION 00-00-00 | DATE PLOTTED => 11/15/2007 | TIME PLOTTED => 12:07:30 PM

BORDER LAST REVISED 11/1/2006

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => DGN FILE => ESL KEYMAP_v8.dgn

CU 00000

EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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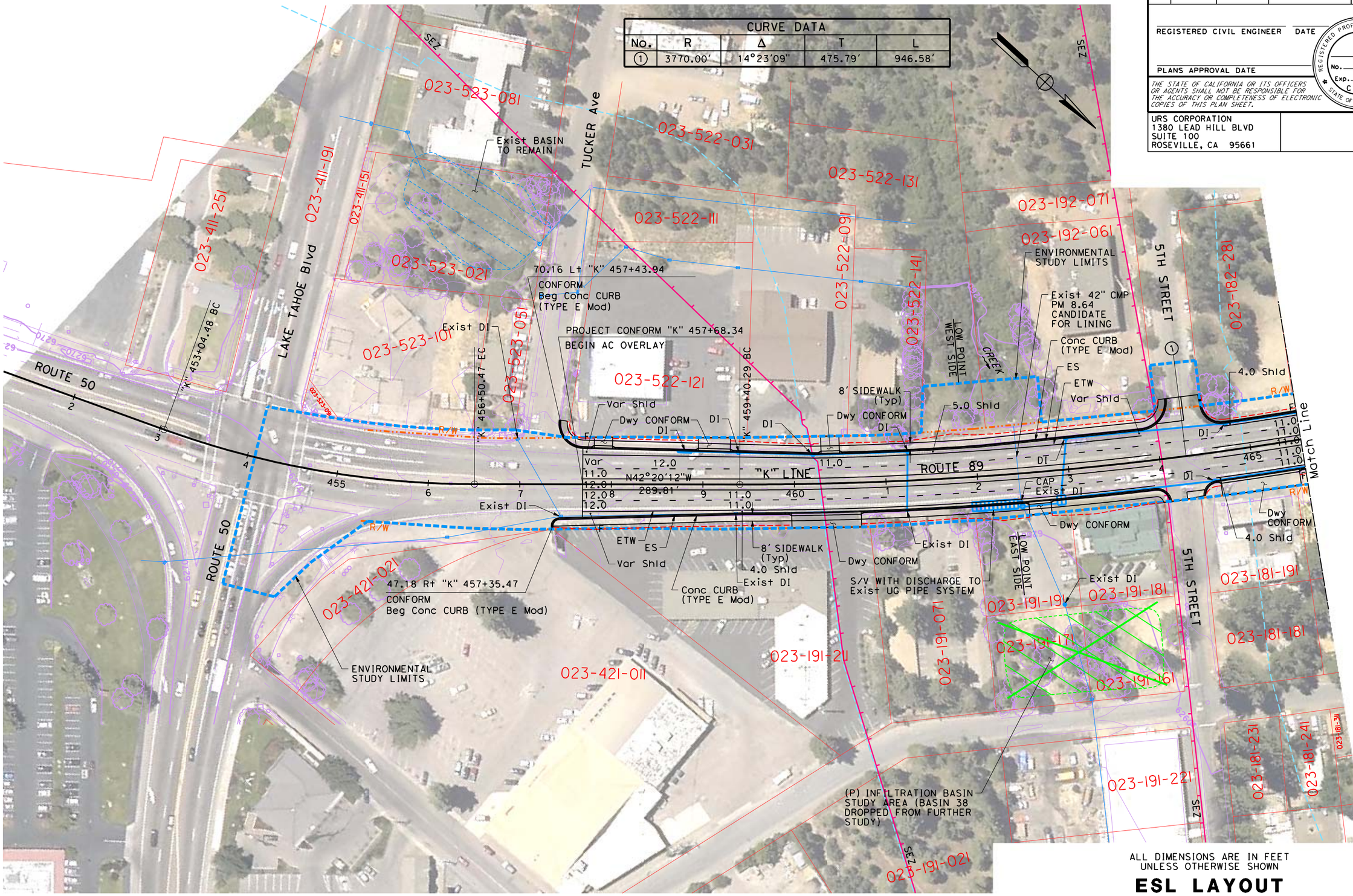
URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661



CURVE DATA				
No.	R	Δ	T	L
1	3770.00'	14°23'09"	475.79'	946.58'

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50'

L-1

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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FILE NAME:$FILE

LAST REVISION 00-00-00 | DATE PLOTTED => 11/15/2007 | TIME PLOTTED => 4:38:39 PM

BORDER LAST REVISED 11/1/2006

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USERNAME => DGN FILE => ESL-01.dgn

CU 00000

EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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

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URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661

CURVE DATA				
No.	R	Δ	T	L
②	1700.00'	10°58'36"	163.34'	325.68'

ROGER Ave

JAMES Ave

8TH STREET

7TH STREET

"K" LINE

ROUTE 89

N56°43'22"W
961.99'

"K" 468+86.87 EC

"K" 478+48.85 BC

Match Line

Match Line
See Sheet L-21

023-182-291
023-182-061
023-182-051
023-182-301
023-182-011
023-172-281
023-172-291
023-172-311
023-172-301
023-172-351
023-172-341
023-172-221
023-172-011
023-181-201
023-181-211
023-181-221
023-181-171
023-181-161
023-181-151
023-181-451
023-181-431
023-181-461
023-181-361
023-181-271
023-181-251
023-181-371
023-181-261
023-181-291
023-181-301
023-181-131
023-181-441
023-181-411
023-181-401
023-181-381
023-181-471
023-181-321
023-171-101
023-171-091
023-171-141
023-171-131
023-171-181
023-171-111
023-171-201
023-171-211
023-171-241
023-171-251
023-171-261
023-171-231
023-171-021

4.0 Shld
(P) INFILTRATION BASIN STUDY AREA (BASIN 39 DROPPED FROM FURTHER STUDY)
(P) INFILTRATION BASIN STUDY AREA (BASIN 40 DROPPED FROM FURTHER STUDY)
ENVIRONMENTAL STUDY LIMITS
Dwy CONFORM
DI
R/W
E
F
SEZ
HIGH POINT BOTH SIDES
LOW POINT BOTH SIDES
Exist DI
Conc CURB (TYPE E Mod)
ES
ETW
Exist MANHOLE
Exist 30" RCP TO REMAIN
Exist TRIPLE 24" x 42" CMPA PM 9.00 TO REMAIN
Exist Dwy
Exist OUTFALL STRUCTURE WITH SPILLWAY TO REMAIN
Exist BASIN TO REMAIN (BASIN 43)
Exist BASIN TO REMAIN (BASIN 41)
Exist OUTFALL FROM BASIN
Exist BASIN TO REMAIN (BASIN 42)

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50'

L-2

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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BORDER LAST REVISED 11/1/2006

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME =>
DGN FILE => ESL-02.dgn

CU 00000

EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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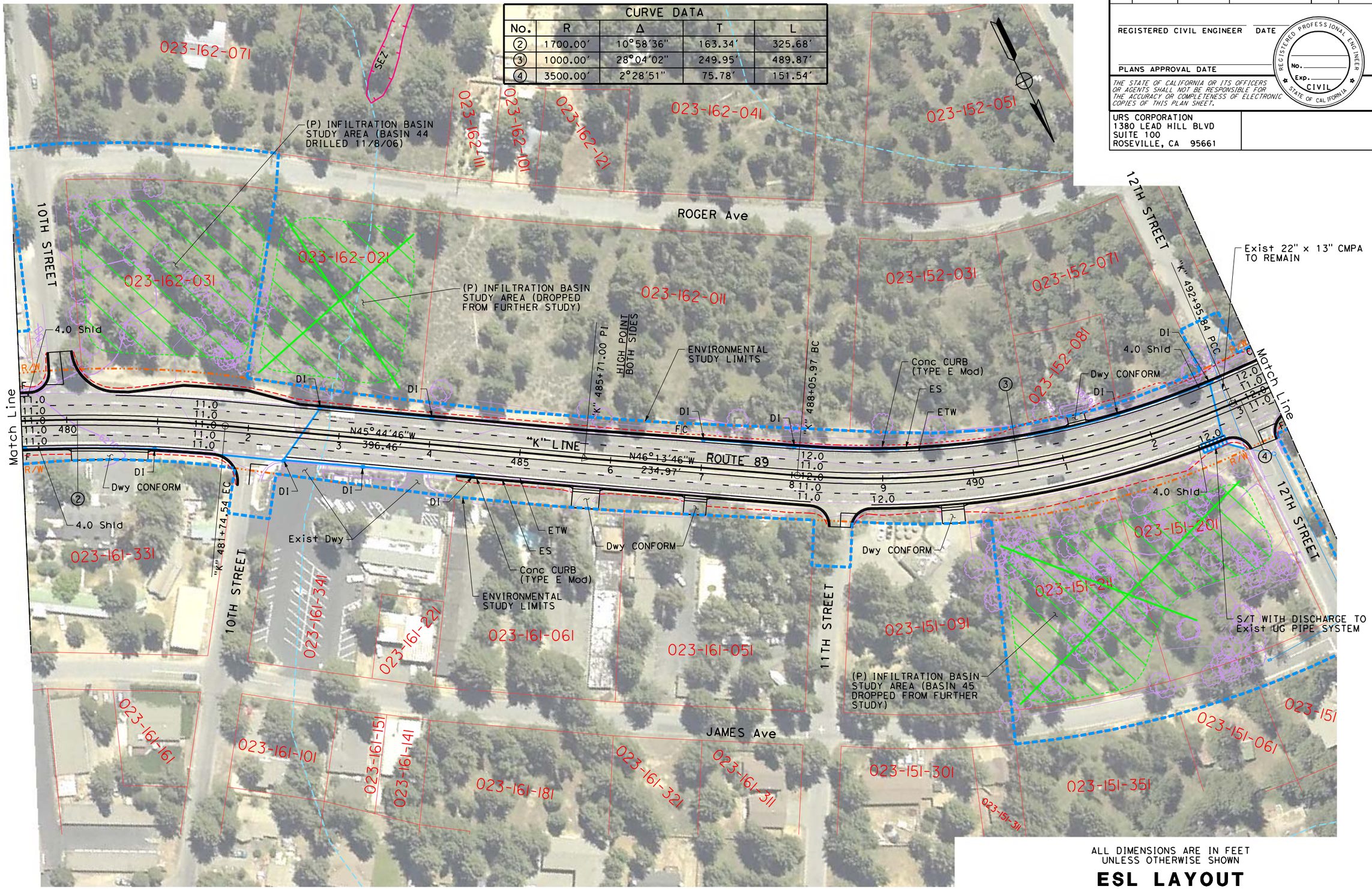
URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661

CURVE DATA				
No.	R	Δ	T	L
②	1700.00'	10°58'36"	163.34'	325.68'
③	1000.00'	28°04'02"	249.95'	489.87'
④	3500.00'	2°28'51"	75.78'	151.54'



ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50'

L-3

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

DESIGN OVERSIGHT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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00-00-00 TIME PLOTTED => 4:41:18 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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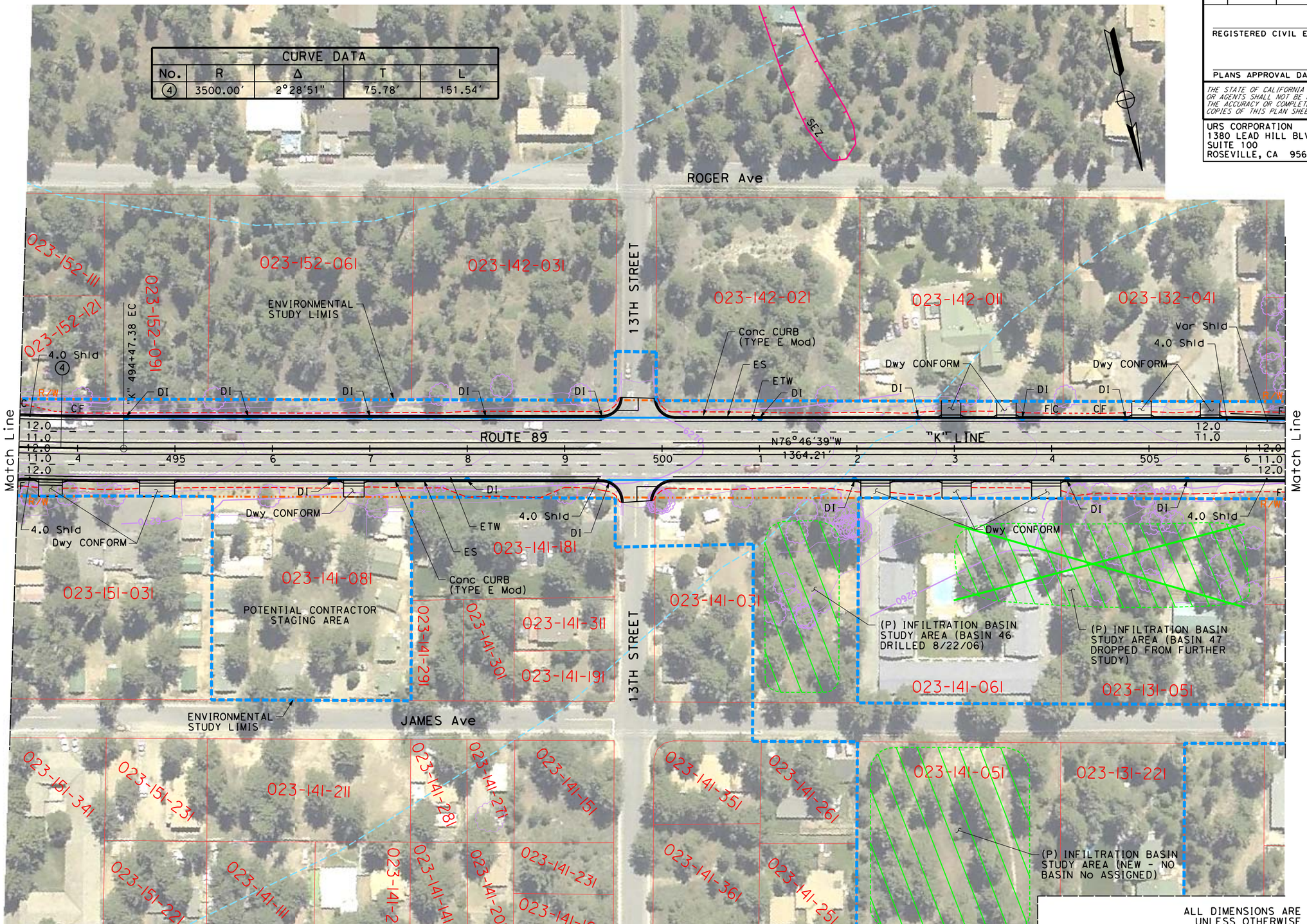
URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661



CURVE DATA				
No.	R	Δ	T	L
4	3500.00'	2°28'51"	75.78'	151.54'

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50'

L-4

REVISED BY | DATE REVISED | CALCULATED-DESIGNED BY | CHECKED BY | DESIGN OVERSIGHT

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Caltrans

FILE NAME: $FILE

DATE PLOTTED => 11/15/2007
TIME PLOTTED => 4:42:30 PM
LAST REVISION 00-00-00

BORDER LAST REVISED 11/1/2006

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => DGN FILE => ESL-04.dgn

CU 00000

EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

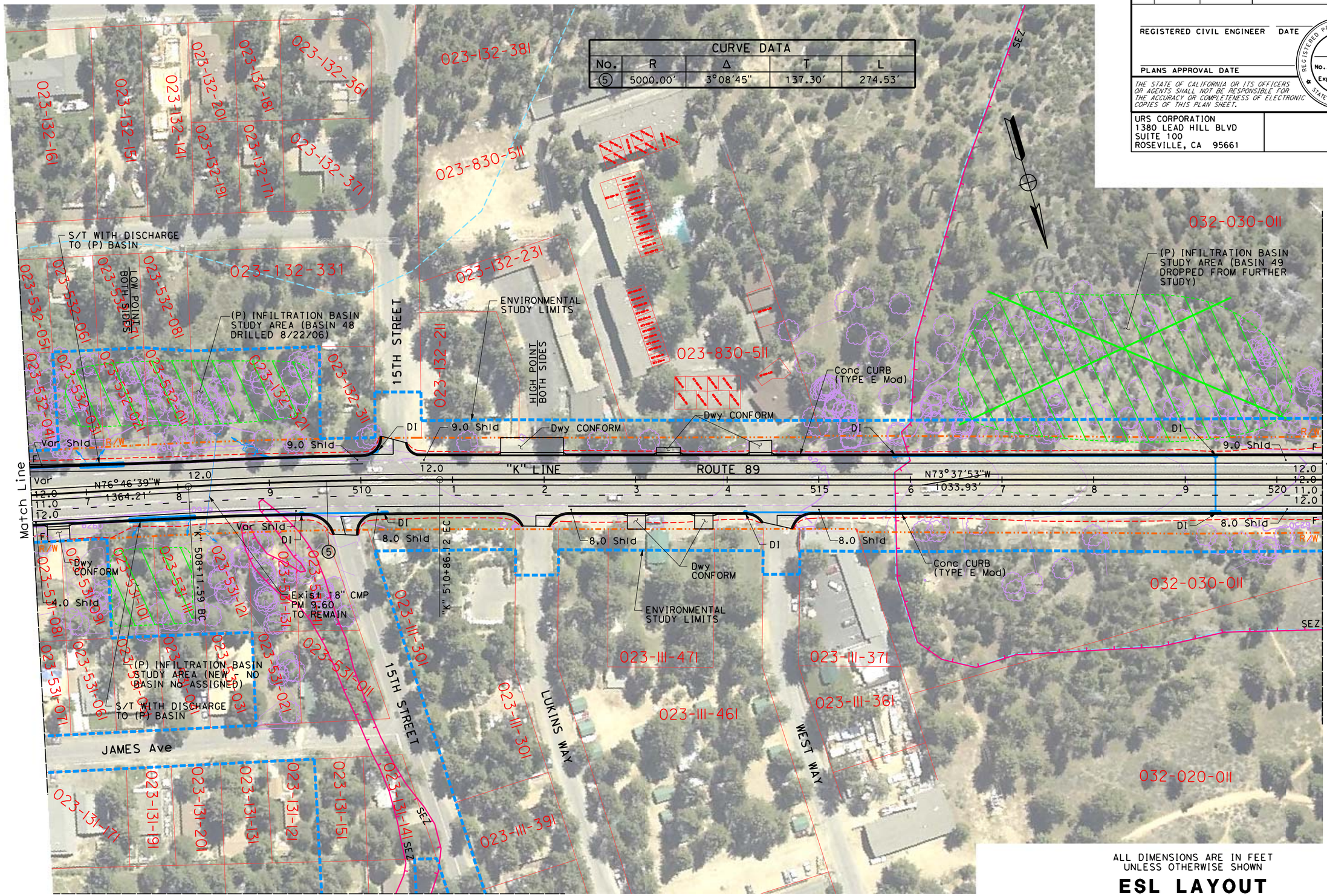
PLANS APPROVAL DATE

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 ELECTRONIC COPIES OF THIS PLAN SHEET.

URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661

CURVE DATA				
No.	R	Δ	T	L
⑤	5000.00'	3°08'45"	137.30'	274.53'



Match Line
See Sheet L-22

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50'

L-5

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
DESIGN OVERSIGHT
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
FILE NAME: $FILE

LAST REVISION 00-00-00 | DATE PLOTTED => 11/15/2007 | TIME PLOTTED => 3:05:58 PM

BORDER LAST REVISED 11/1/2006 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => DGN FILE => ESL-05.dgn | CU 00000 | EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

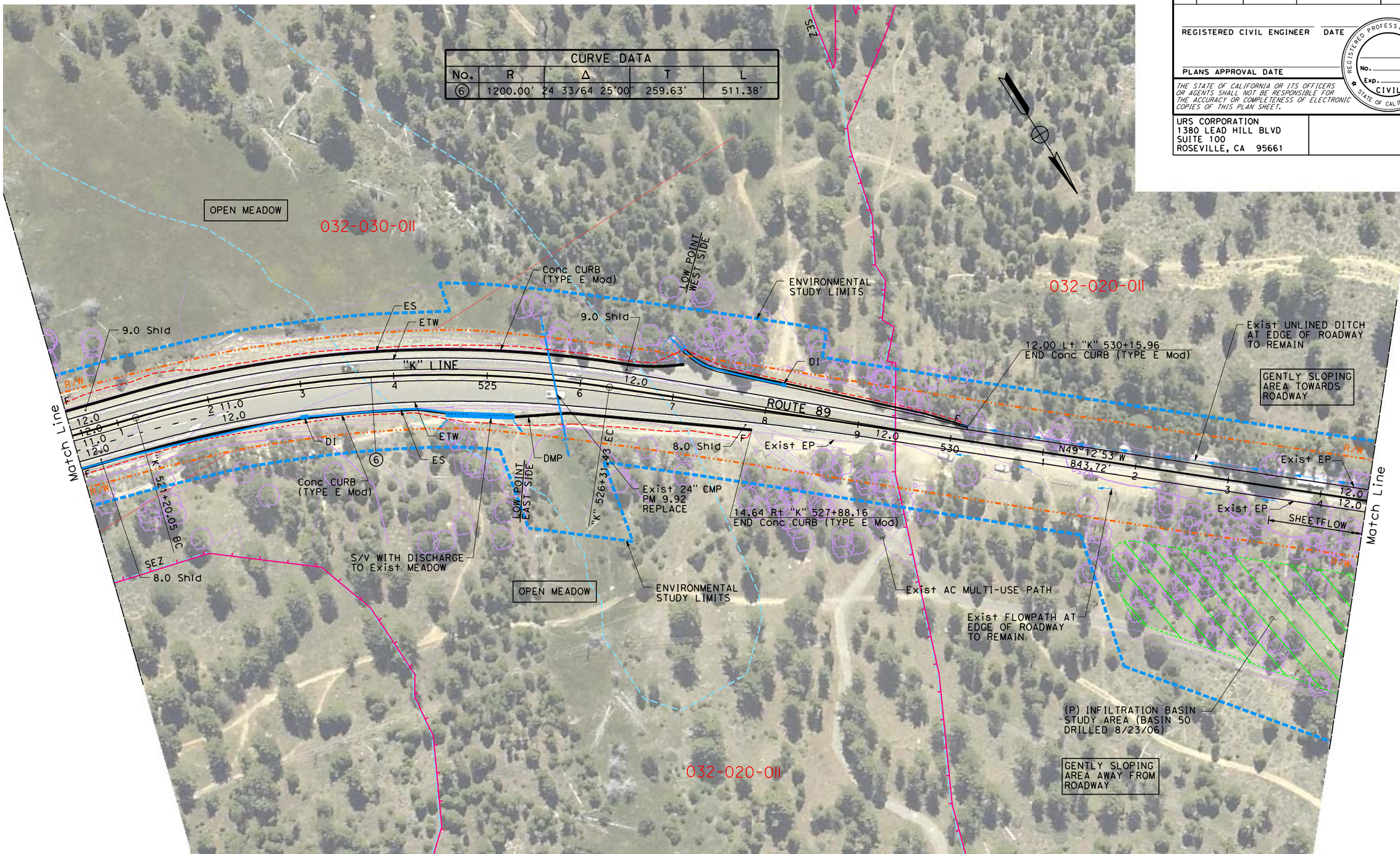
REGISTERED CIVIL ENGINEER DATE

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 ELECTRONIC COPIES OF THIS PLAN SHEET.

URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661



CURVE DATA				
No.	R	Δ	T	L
6	1200.00'	24 33/64 25'00"	259.63'	511.38'

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50'

L-6

REVISED BY | DATE REVISED | CALCULATED-DESIGNED BY | CHECKED BY | DESIGN OVERSIGHT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION 00-00-00 | DATE PLOTTED => 11/15/2007 | TIME PLOTTED => 12:20:27 PM

BORDER LAST REVISED 11/1/2006 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => DGN FILE => ESL-06.dgn | CU 00000 | EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

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 ELECTRONIC COPIES OF THIS PLAN SHEET.

URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661

CURVE DATA				
No.	R	Δ	T	L
⑦	8000.00′	1°45′41"	122.97′	245.93′
⑧	1450.00′	9°44′41"	123.60′	246.61′
⑨	835.00′	31°04′29"	232.15′	452.87′

032-020-011

GENTLY SLOPING AREA TOWARDS ROADWAY

HIGH POINT BOTH SIDES

ENVIRONMENTAL STUDY LIMITS

Exist UNLINED DITCH AT EDGE OF ROADWAY TO REMAIN

ETW

Exist 18" CMP PM 10.13 TO REMAIN

(P) INLET IMPROVEMENTS TO Exist CROSS CULVERT

"K" LINE

ROUTE 89

N41°27'13"W 177.66′

"K" 538+98.74 BC

"K" 541+45.35 PCC

"K" 545+98.22 EC

N6°38'03"W 743.3912.08

SHEETFLOW

Exist EP

R/W

12.0

"K" 537+21.08 EC

"K" 534+75.15 BC

Match Line

Exist FLOWPATH AT EDGE OF ROADWAY TO REMAIN

(P) INFILTRATION BASIN STUDY AREA (BASIN 50 DRILLED 8/23/06)

GENTLY SLOPING AREA AWAY FROM ROADWAY

SEZ

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50′

L-7

REVISED BY	DATE REVISED

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DATE PLOTTED => 11/15/2007
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BORDER LAST REVISED 11/1/2006

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME =>
DGN FILE => ESL-07.dgn

CU 00000

EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661

CURVE DATA				
No.	R	Δ	T	L
⑩	6000.00′	2°26′49"	128.15′	256.25′
⑪	640.00′	37°06′02"	214.77′	414.42′

032-020-011

GENTLY SLOPING AREA TOWARDS ROADWAY

032-010-011

Match Line

Exist EP

R/W

12.0

12.0

ENVIRONMENTAL STUDY LIMITS

ETW

550

N6°38'03"W

743.39'

"K" 553+41.61 BC

Exist UNLINED DITCH AT EDGE OF ROADWAY TO REMAIN

⑩

"K" 555+97.86 PCC

"K" Exist AC DIKE TO REMAIN

⑪

"K" 560+12.28 EC

"K" 562+00.38 PI

Exist FLOWPATH AT EDGE OF ROADWAY TO REMAIN

ENVIRONMENTAL STUDY LIMITS

"K" LINE

555

560

ROUTE 89

N46°10'55"W

188.10'

N46°39'55"W

500.00'

SHEETFLOW

032-020-011

GENERALLY FLAT AREA ADJACENT TO THE ROADWAY

SEZ

SEZ

GENTLY SLOPING AREA AWAY FROM ROADWAY

032-010-011

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50′

L-8

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DESIGN OVERSIGHT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

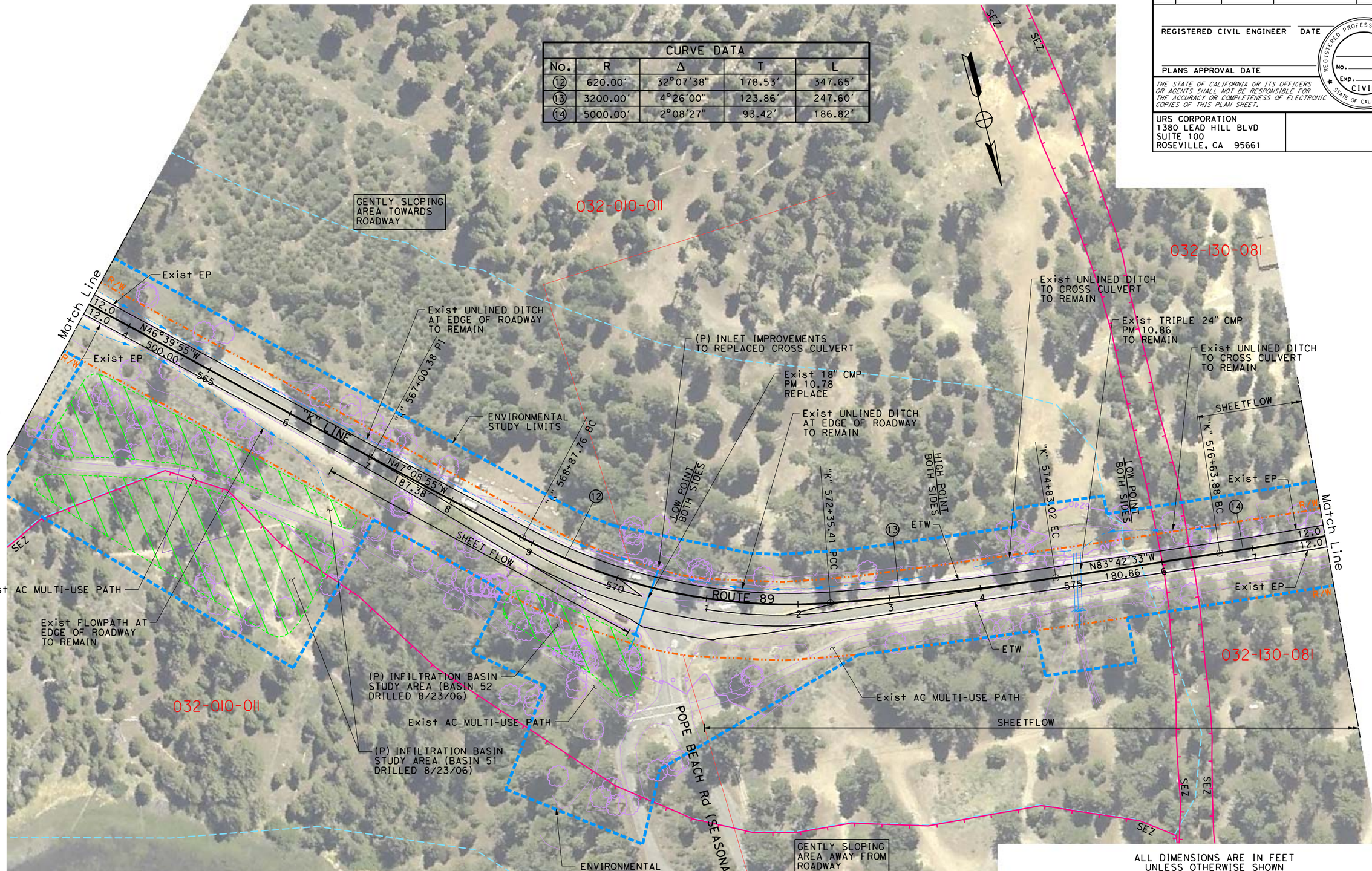
PLANS APPROVAL DATE

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 ELECTRONIC COPIES OF THIS PLAN SHEET.

URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661

CURVE DATA				
No.	R	Δ	T	L
12	620.00'	32°07'38"	178.53'	347.65'
13	3200.00'	4°26'00"	123.86'	247.60'
14	5000.00'	2°08'27"	93.42'	186.82'



ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50'

L-9

REVISED BY | DATE REVISED | CALCULATED-DESIGNED BY | CHECKED BY | DESIGN OVERSIGHT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FILE NAME: $FILE

LAST REVISION 00-00-00 | DATE PLOTTED => 11/15/2007 | TIME PLOTTED => 2:45:46 PM

BORDER LAST REVISED 11/1/2006 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => DGN FILE => ESL-09.dgn | CU 00000 | EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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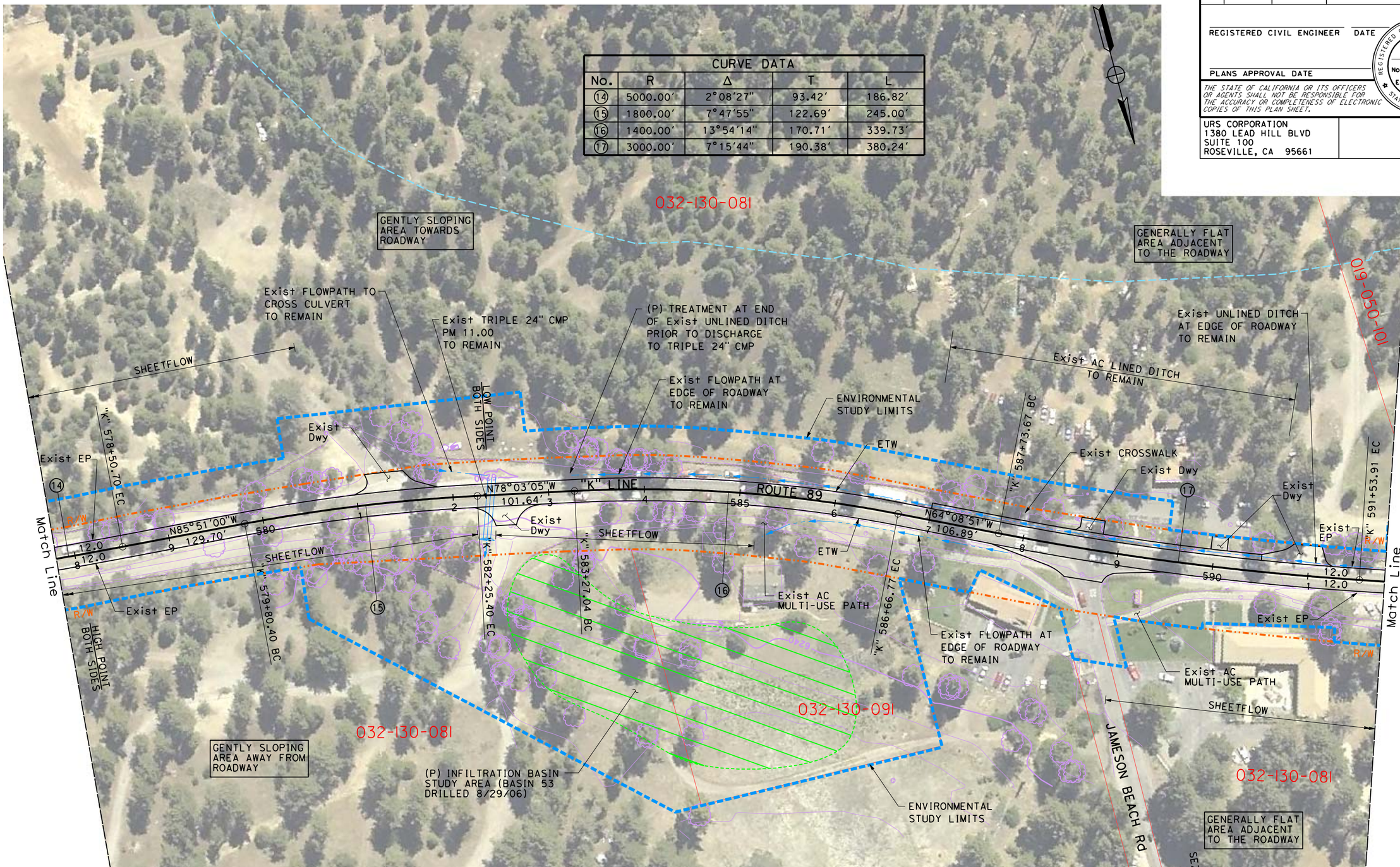
URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661

CURVE DATA

No.	R	Δ	T	L
14	5000.00'	2°08'27"	93.42'	186.82'
15	1800.00'	7°47'55"	122.69'	245.00'
16	1400.00'	13°54'14"	170.71'	339.73'
17	3000.00'	7°15'44"	190.38'	380.24'



ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50'

L-10

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

DESIGN OVERSIGHT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LAST REVISION 00-00-00 | DATE PLOTTED => 11/15/2007 | TIME PLOTTED => 12:48:07 PM

BORDER LAST REVISED 11/1/2006 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => DGN FILE => ESL-10.dgn | CU 00000 | EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

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 ELECTRONIC COPIES OF THIS PLAN SHEET.

URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661

CURVE DATA				
No.	R	Δ	T	L
(18)	760.00′	29°44′06"	201.76′	394.42′

019-050-101

019-050-151

019-050-141

GENTLY SLOPING AREA TOWARDS ROADWAY

Match Line

Exist EP

R/W

"K" 592+89.29 BC

N71°24'35"W 135.38′

Exist EP

12.0

12.0

(18)

595

"K" 596+83.71 EC

Exist UNLINED DITCH AT EDGE OF ROADWAY TO REMAIN

ENVIRONMENTAL STUDY LIMITS

ETW

Exist EP

Exist Dwy

R/W

Exist AC MULTI-USE PATH

"K" LINE

S78°51'19"W 680.16′

ROUTE 89

S79°14'37"W 574.95′

12.0

12.0

600

605

SHEETFLOW

ETW

Exist EP

R/W

Match Line

Exist Dwy

VALHALLA Rd

019-081-071

019-081-101

ENVIRONMENTAL STUDY LIMITS

Exist FLOWPATH AT EDGE OF ROADWAY TO REMAIN

"K" 603+63.88 PI

(P) INFILTRATION BASIN STUDY AREA (BASIN 54 DROPPED FROM FURTHER STUDY)

032-130-081

019-081-041

GENERALLY FLAT AREA ADJACENT TO THE ROADWAY

019-081-091

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50′

L-11

REVISED BY	DATE REVISED

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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DATE PLOTTED => 11/15/2007
TIME PLOTTED => 11:49:16 PM

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME =>
DGN FILE => ESL-11.dgn

CU 00000

EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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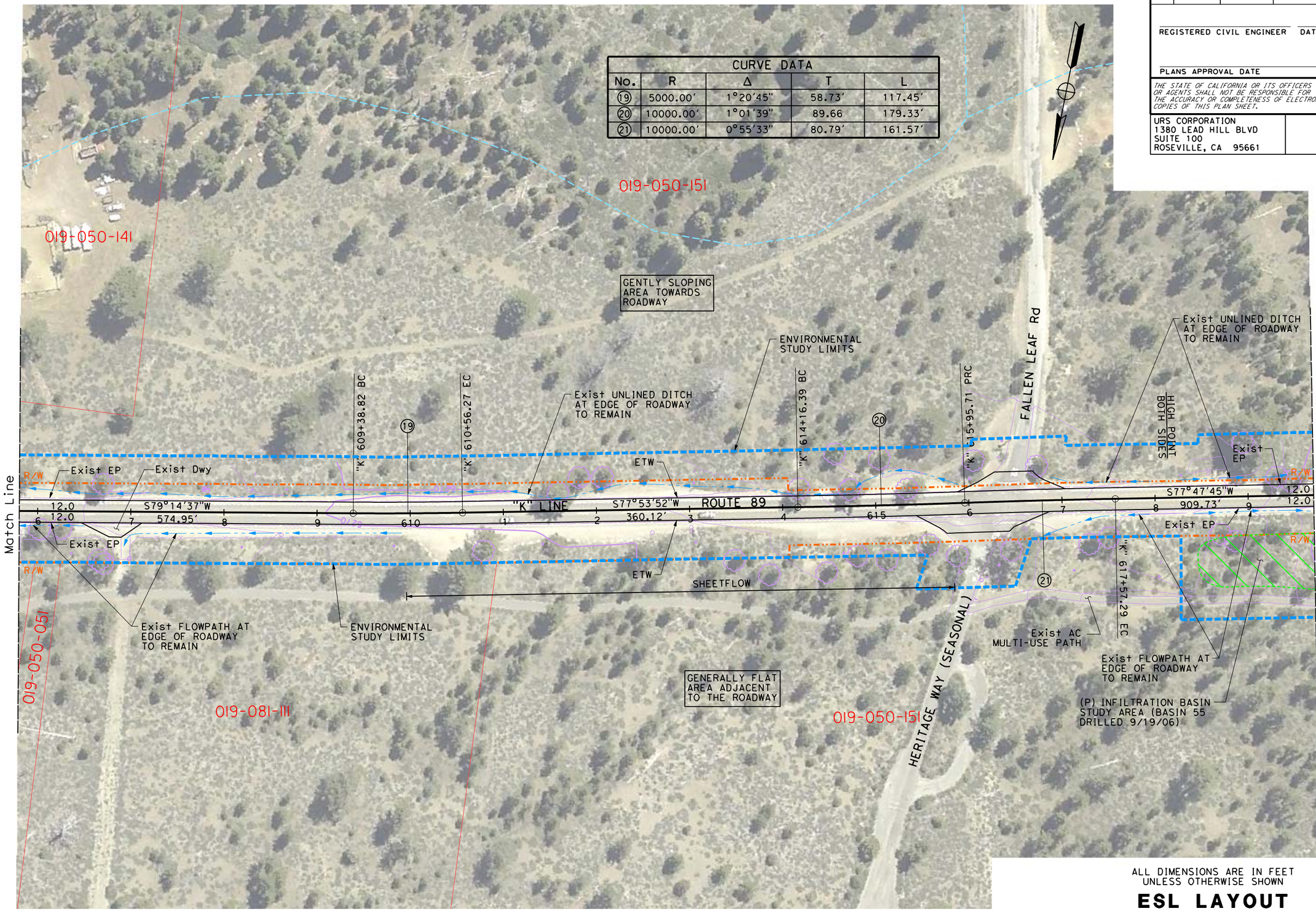
URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661



CURVE DATA

No.	R	Δ	T	L
19	5000.00'	1°20'45"	58.73'	117.45'
20	10000.00'	1°01'39"	89.66	179.33'
21	10000.00'	0°55'33"	80.79'	161.57'

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50'

L-12

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DESIGN OVERSIGHT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FILE NAME:$FILE

LAST REVISION 00-00-00 | DATE PLOTTED => 11/15/2007 | TIME PLOTTED => 1:54:34 PM

BORDER LAST REVISED 11/1/2006

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => DGN FILE => ESL-12.dgn

CU 00000

EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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URS CORPORATION
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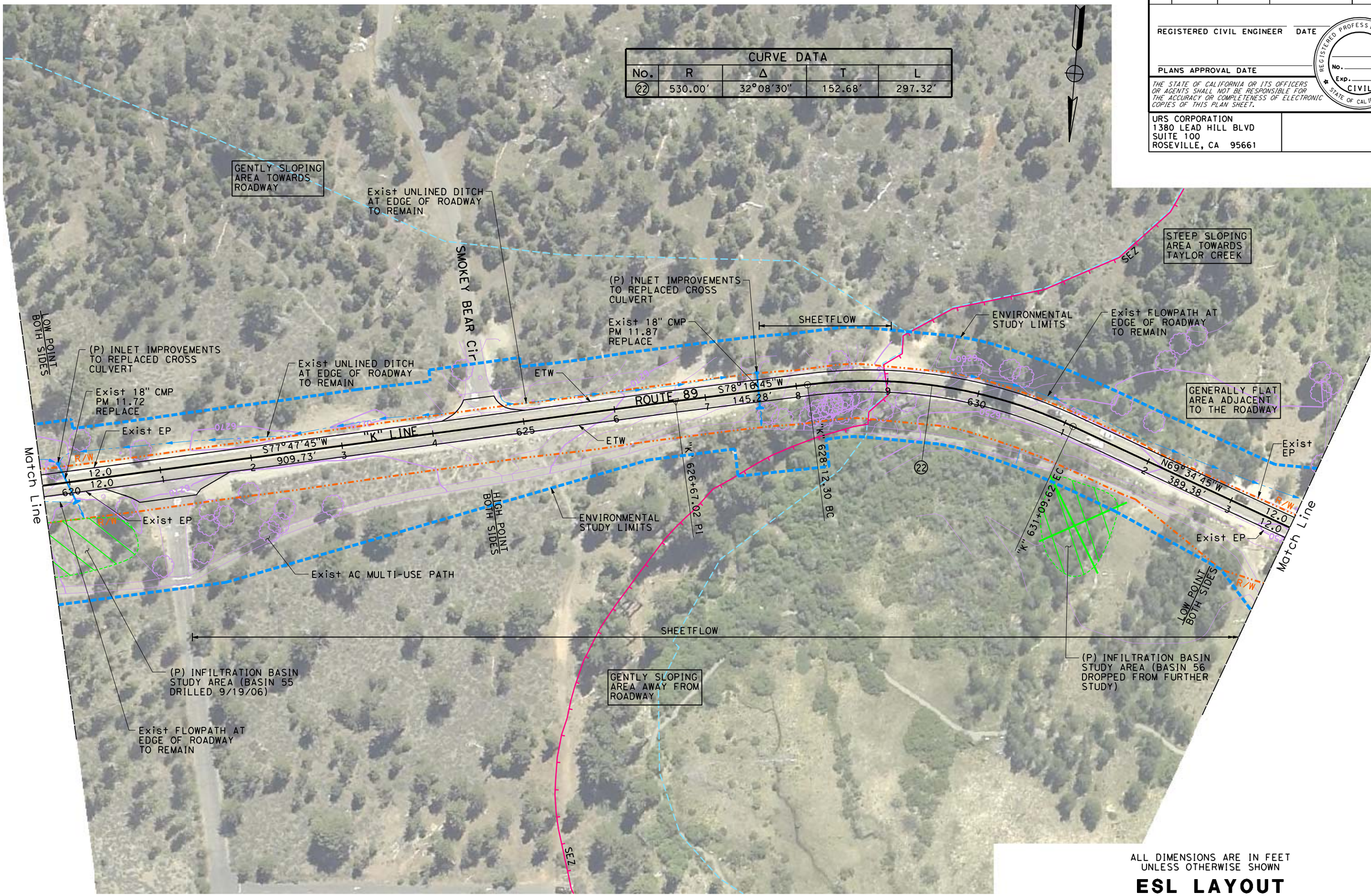
SUITE 100
ROSEVILLE, CA 95661

CURVE DATA				
No.	R	Δ	T	L
22	530.00'	32°08'30"	152.68'	297.32'



ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50'

L-13

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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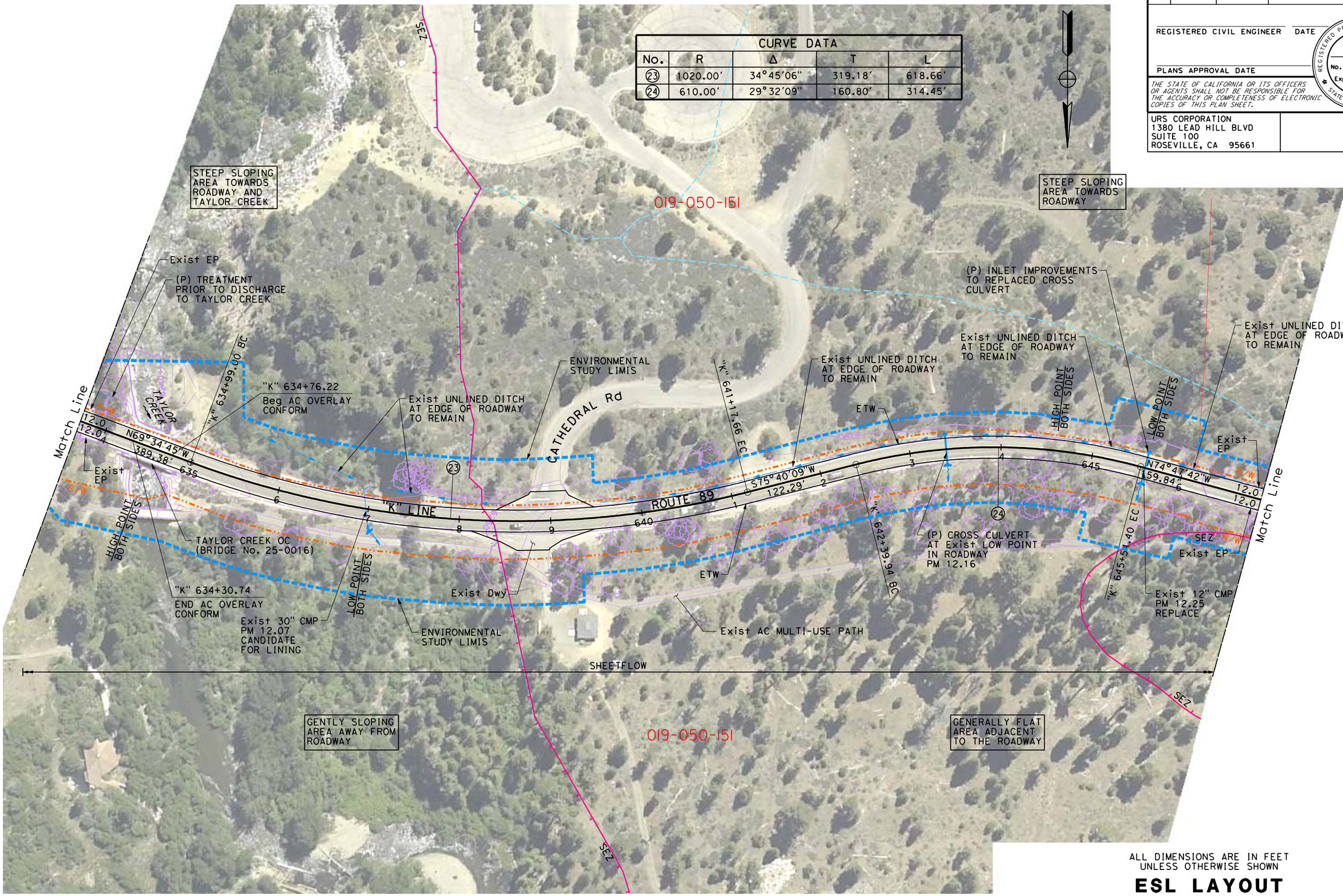
URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661

CURVE DATA

No.	R	Δ	T	L
23	1020.00'	34°45'06"	319.18'	618.66'
24	610.00'	29°32'09"	160.80'	314.45'



ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50'

L-14

REVISED BY | DATE REVISED | CALCULATED-DESIGNED BY | CHECKED BY | DESIGN OVERSIGHT

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BORDER LAST REVISED 11/1/2006 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => DGN FILE => ESL-14.dgn | CU 00000 | EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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

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SUITE 100
ROSEVILLE, CA 95661

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FILE NAME:$FILE

CURVE DATA				
No.	R	Δ	T	L
25	500.00'	25°26'43"	112.89'	222.05'
26	700.00'	12°46'08"	78.33'	156.00'
27	3300.00'	2°33'42"	73.78'	147.54'
28	2600.00'	3°35'26"	81.50'	162.94'
29	480.00'	26°47'46"	114.33'	224.49'

019-041-031

STEEP SLOPING AREA TOWARDS ROADWAY

Exist UNLINED DITCH AT EDGE OF ROADWAY TO REMAIN

Exist EP

"K" 647+14.24 BC

"K" 649+35.29 EC

HIGH POINT BOTH SIDES

(P) CROSS CULVERT AT Exist LOW POINT IN ROADWAY PM 12.28

"K" 652+39.72 BC

"K" 653+87.26 EC

ETW

Exist UNLINED DITCH AT EDGE OF ROADWAY TO REMAIN

Exist DOUBLE 24" CMP PM 12.48 TO REMAIN

ENVIRONMENTAL STUDY LIMITS

LOW POINT BOTH SIDES

Exist UNLINED DITCH AT EDGE OF ROADWAY TO REMAIN

Exist EP

Match Line

R/W

SEZ

12.0

N87°28'17"W 276.21'

"K" LINE

S89°58'01"W 70.53'

ROUTE 89

N86°26'33"W 226.49'

S79°45'35"W 71.22'

650

655

Exist EP

Exist AC MULTI-USE PATH

LOW POINT BOTH SIDES

"K" 650+07.51 BC

"K" 651+63.52 EC

HIGH POINT BOTH SIDES

ETW

ENVIRONMENTAL STUDY LIMITS

"K" 654+57.79 BC

"K" 656+20.73 EC

"K" 658+47.21 BC

Exist EP

SHEETFLOW

GENTLY SLOPING AREA AWAY FROM ROADWAY

019-041-031

(P) INFILTRATION BASIN STUDY AREA (BASIN 57 DRILLED 8/24/06)

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50'

L-15

LAST REVISION 00-00-00

DATE PLOTTED => 11/15/2007
TIME PLOTTED => 21:14:54 PM

BORDER LAST REVISED 11/1/2006

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME =>
DGN FILE => ESL-15.dgn

CU 00000

EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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

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URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661

CURVE DATA				
No.	R	Δ	T	L
29	480.00'	26°47'46"	114.33'	224.49'
30	1500.00'	5°12'17"	68.18'	136.26'
31	550.00'	13°24'02"	64.61'	128.64'
32	255.00'	66°08'32"	166.05'	294.37'
33	500.00'	13°37'49"	59.76'	118.95'
34	1300.00'	10°08'31"	115.36'	230.11'
35	580.00'	16°06'31"	82.07'	163.07'

019-041-031

TALLAC Rd

Match Line

Exist UNLINED DITCH AT EDGE OF ROADWAY TO REMAIN

Exist EP

R/W

12.0

12.0

660

(29)

Exist EP

(P) CROSS CULVERT AT Exist LOW POINT IN ROADWAY PM 12.52

N59°38'47"W 79.06'

ENVIRONMENTAL STUDY LIMITS

GENTLY SLOPING AREA TOWARDS ROADWAY

Exist UNLINED DITCH AT EDGE OF ROADWAY TO REMAIN

(P) INLET IMPROVEMENTS TO Exist CROSS CULVERT

Exist 18" CMP PM 12.77 TO REMAIN

(P) INLET IMPROVEMENTS TO Exist CROSS CULVERT

Exist UNLINED DITCH AT EDGE OF ROADWAY TO REMAIN

Exist EP

R/W

12.0

12.0

Match Line

"K" 660+71.70 EC

"K" 661+50.76 BC

(30)

"K" 662+87.02 PCC

(31)

"K" 664+15.65 EC

N41°02'28"W 169.21'

"K" 665+24.86 BC

Exist UNLINED DITCH AT EDGE OF ROADWAY TO REMAIN

(32)

"K" 668+19.23 PCC

(33)

"K" 669+38.18 EC

S59°11'11"W 670.37'

"K" 670+75.54 BC

(34)

"K" 673+05.65 PCC

(35)

Exist EP

"K" 674+68.72 EC

BALDWIN BEACH Rd (SEASONAL)

SEZ

(P) INFILTRATION BASIN STUDY AREA (BASIN 57 DRILLED 8/24/06)

"K" LINE

ROUTE 89

ETW

ETW

HIGH POINT BOTH SIDES

HIGH POINT BOTH SIDES

LOW POINT BOTH SIDES

Exist 18" CMP PM 12.68 TO REMAIN

Exist AC MULTI-USE PATH

Exist FLOWPATH AT EDGE OF ROADWAY TO REMAIN

GENTLY SLOPING AREA AWAY FROM ROADWAY

GENTLY SLOPING AREA AWAY FROM ROADWAY

ENVIRONMENTAL STUDY LIMITS

SHEETFLOW

SEZ

SEZ

SEZ

019-041-031

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50'

L-16

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FILE NAME: $FILE

LAST REVISION 00-00-00 | DATE PLOTTED => 11/15/2007 | TIME PLOTTED => 2:21:54 PM

BORDER LAST REVISED 11/1/2006 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => DGN FILE => ESL-16.dgn | CU 00000 | EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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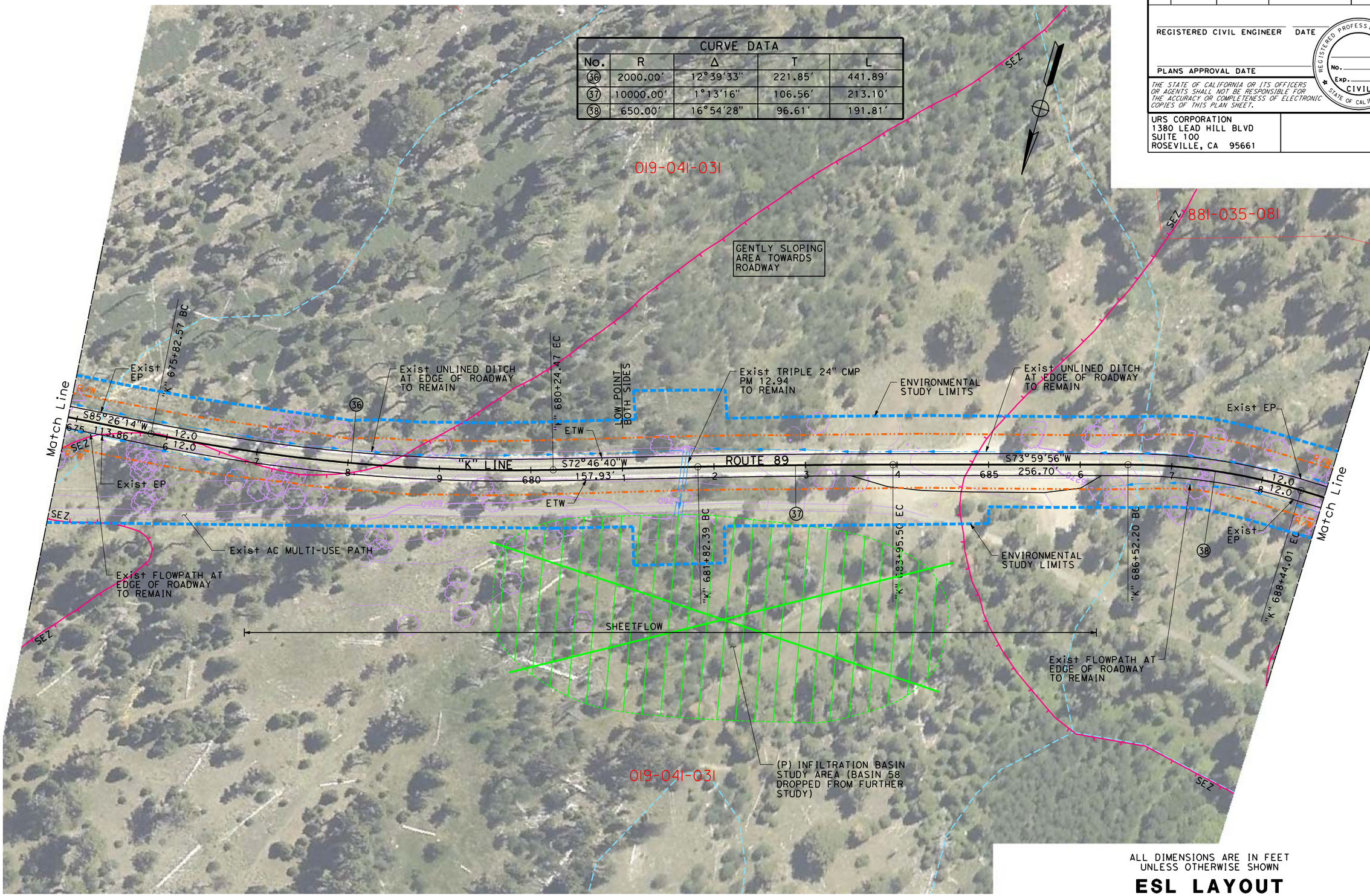
URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661



No.	R	Δ	T	L
36	2000.00'	12°39'33"	221.85'	441.89'
37	10000.00'	1°13'16"	106.56'	213.10'
38	650.00'	16°54'28"	96.61'	191.81'

CURVE DATA

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50'

L-17

REVISED BY | DATE REVISED

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FILE NAME:$FILE

LAST REVISION 00-00-00 | DATE PLOTTED => 12/3/2007 | TIME PLOTTED => 3:36:54 PM

BORDER LAST REVISED 11/1/2006

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => DGN FILE => ESL-17.dgn

CU 00000

EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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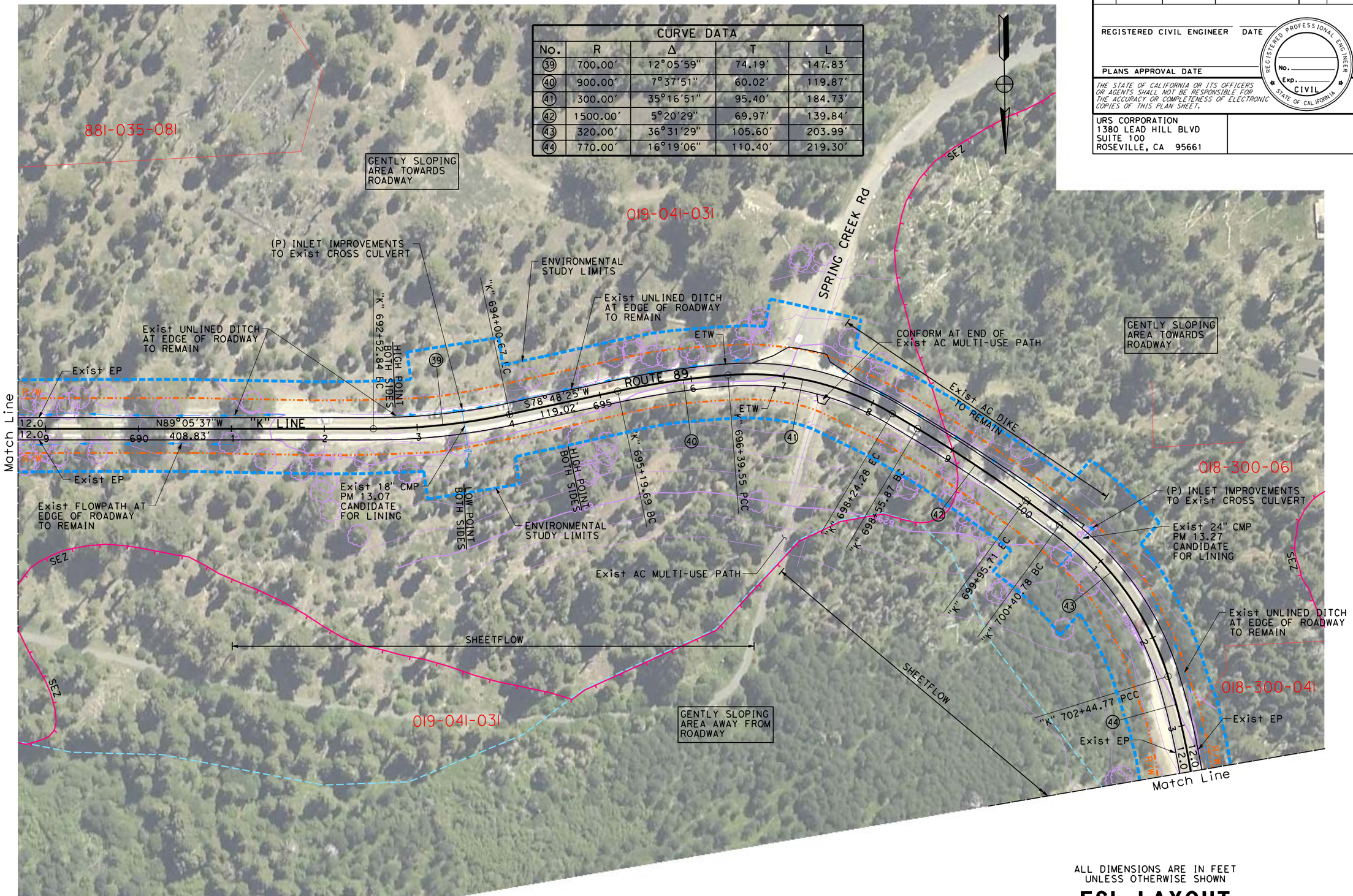
URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661

CURVE DATA

No.	R	Δ	T	L
39	700.00'	12°05'59"	74.19'	147.83'
40	900.00'	7°37'51"	60.02'	119.87'
41	300.00'	35°16'51"	95.40'	184.73'
42	1500.00'	5°20'29"	69.97'	139.84'
43	320.00'	36°31'29"	105.60'	203.99'
44	770.00'	16°19'06"	110.40'	219.30'



ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50'

L-18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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DATE REVISED

FILE NAME: $FILE

LAST REVISION 00-00-00

DATE PLOTTED => 11/15/2007
TIME PLOTTED => 2:31:00 PM

BORDER LAST REVISED 11/1/2006

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => DGN FILE => ESL-18.dgn

CU 00000

EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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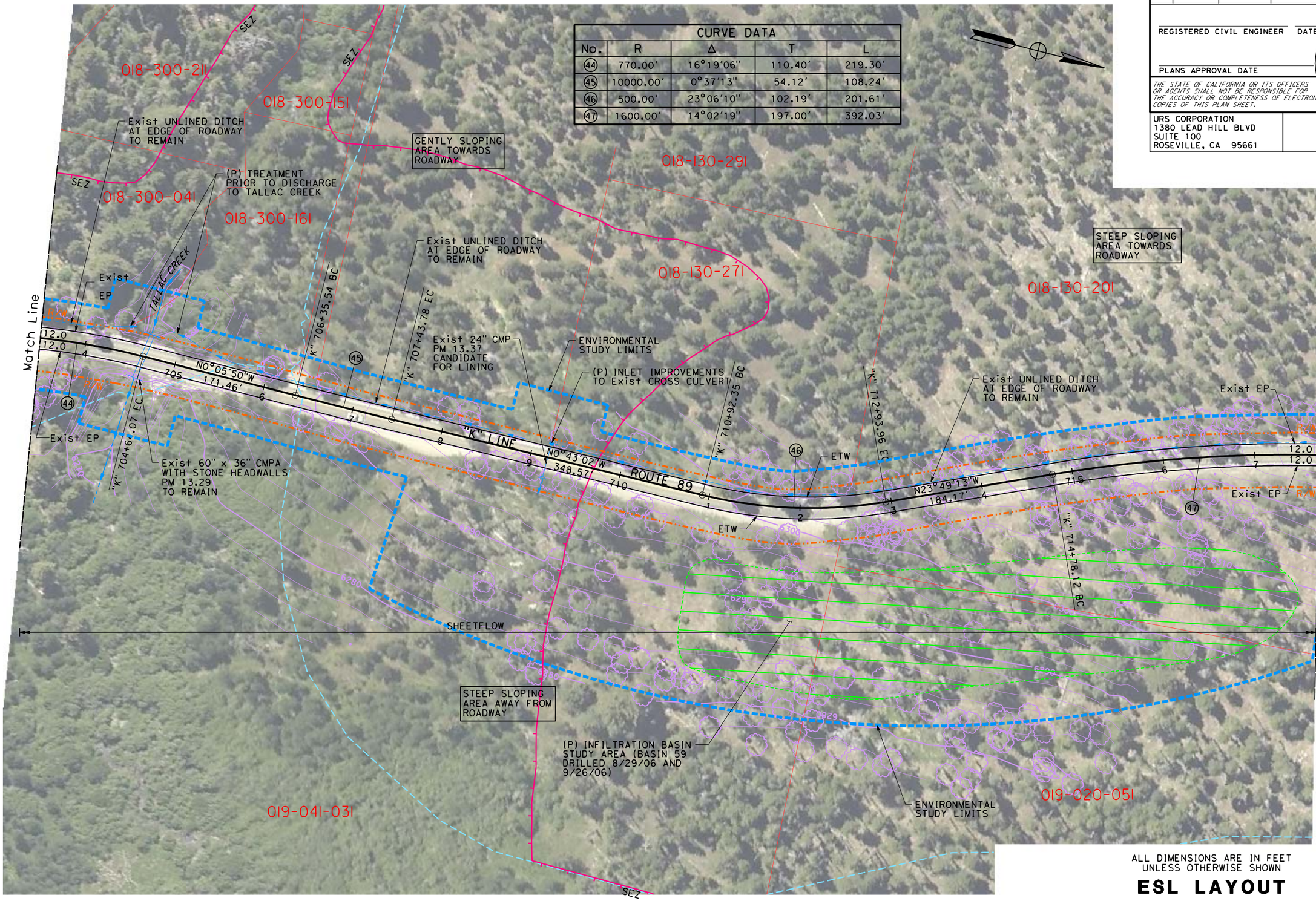
SUITE 100
ROSEVILLE, CA 95661



CURVE DATA				
No.	R	Δ	T	L
44	770.00'	16°19'06"	110.40'	219.30'
45	10000.00'	0°37'13"	54.12'	108.24'
46	500.00'	23°06'10"	102.19'	201.61'
47	1600.00'	14°02'19"	197.00'	392.03'

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50'

L-19

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BORDER LAST REVISED 11/1/2006 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => DGN FILE => ESL-19.dgn | CU 00000 | EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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URS CORPORATION
1380 LEAD HILL BLVD
SUITE 100
ROSEVILLE, CA 95661

CURVE DATA				
No.	R	Δ	T	L
47	1600.00'	14°02'19"	197.00'	392.03'
48	900.00'	12°58'06"	102.29'	203.71'
49	800.00'	11°52'14"	83.17'	165.74'
50	2500.00'	3°53'14"	84.84'	169.62'

018-130-201

STEEP SLOPING AREA TOWARDS ROADWAY

018-090-031

Exist AC DIKE TO REMAIN

Exist UNLINED DITCH AT EDGE OF ROADWAY TO REMAIN

ENVIRONMENTAL STUDY LIMITS

PROJECT CONFORM "K" 728+67.59
END AC OVERLAY

Exist 18" CMP
PM 13.77
TO REMAIN

Match Line

Exist EP

"K" LINE

ROUTE 89

N3°11'12"E
373.07'

"K" 724+46.94 BC

"K" 726+12.68 EC

N8°41'01"W
85.59'

N4°47'47"W
53.89'

N17°59'53"E
65.53'

N14°21'27"E
289.11'

"K" 718+70.15 PCC

"K" 720+73.86 EC

"K" 726+98.27 BC

"K" 728+67.88 EC

"K" 729+21.77 BC

"K" 730+13.28 EC

"K" 730+78.81 BC

"K" 731+51.88 EC

CASCADE Rd

STEEP SLOPING AREA AWAY FROM ROADWAY

ENVIRONMENTAL STUDY LIMITS

Exist ROCK LINED DITCH DOWN CASCADE ROAD

SHEETFLOW

018-090-571

019-020-051

018-310-051

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN

ESL LAYOUT

SCALE: 1" = 50'

L-20

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00-00-00

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USERNAME =>
DGN FILE => ESL-20.dgn

CU 00000

EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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SUITE 100
ROSEVILLE, CA 95661

ALL DIMENSIONS ARE IN FEET
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ESL LAYOUT

SCALE: 1" = 50'

L-21

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Caltrans
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BORDER LAST REVISED 11/1/2006 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => DGN FILE => ESL-21.dgn | CU 00000 | EA 1A8420

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	89	8.6/13.8		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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URS CORPORATION
1380 LEAD HILL BLVD
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ALL DIMENSIONS ARE IN FEET
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ESL LAYOUT

SCALE: 1" = 50'

L-22

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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BORDER LAST REVISED 11/1/2006 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => | DGN FILE => ESL-22.dgn | CU 00000 | EA 1A8420