Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	601	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

ROSS E. LEW No. C53399 Exp. 6/30/11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

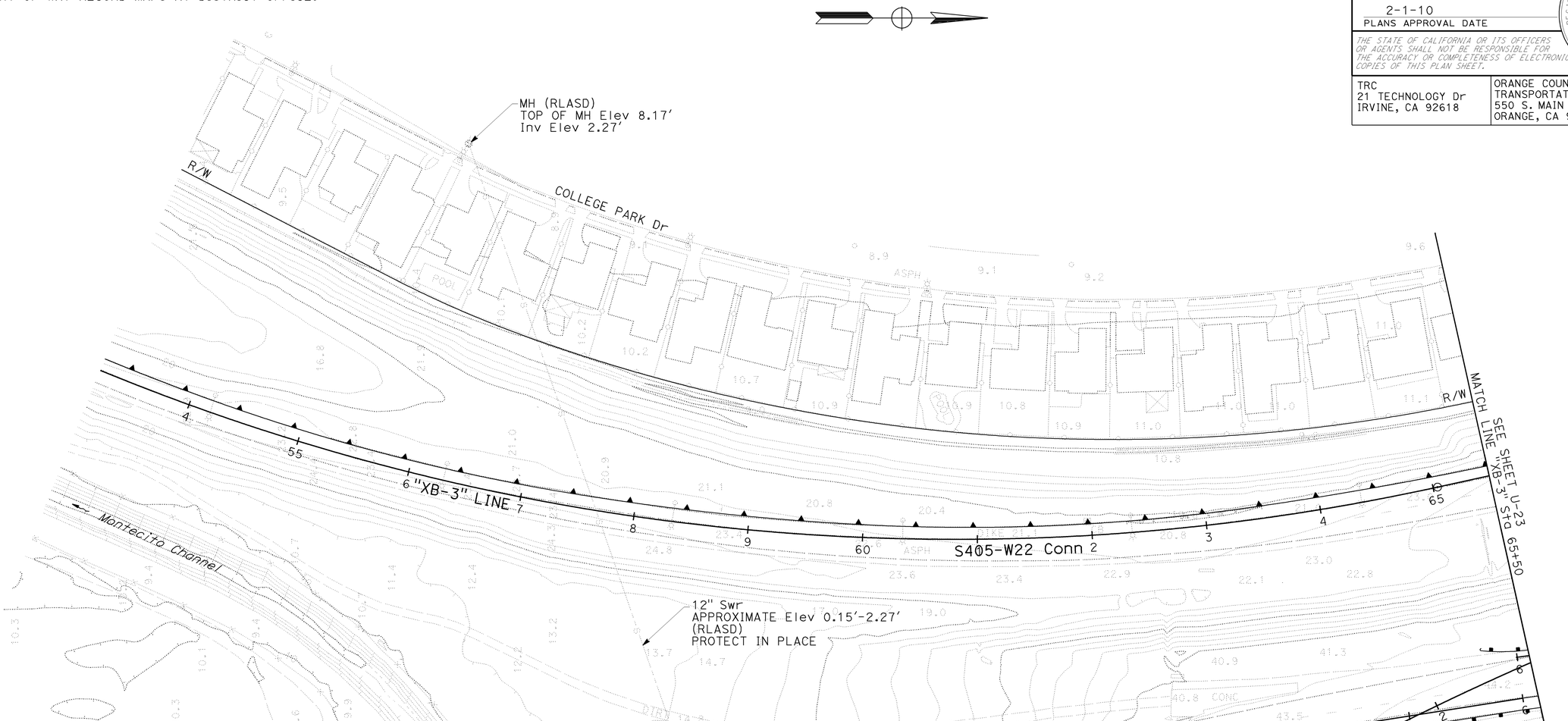
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

TRC
21 TECHNOLOGY Dr
IRVINE, CA 92618

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



UTILITY PLAN

SCALE 1" = 50'

U-22

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW

CALCULATED-DESIGNED BY: ALI JERAJ
CHECKED BY: KAREN CHAPMAN
REVISED BY: DBL
DATE REVISED: 12/22/09

LAST REVISION | DATE PLOTTED => 03-FEB-2010
12-22-09 | TIME PLOTTED => 11:01

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trrichf
DGN FILE => c07163ka022.dgn

CU 12235

EA 071631

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	602	1929

REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ROSS E. LEW
No. C53399
Exp. 6/30/11
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.

TRC
21 TECHNOLOGY Dr
IRVINE, CA 92618

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NO UTILITY THIS SHEET

UTILITY PLAN

SCALE 1" = 50'

U-23

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
ALI JERAJ	KAREN CHAPMAN	DBL	8/10/09

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 11:01

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trrichf | DGN FILE => c07163ka023.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	603	1929

REGISTERED CIVIL ENGINEER 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ROSS E. LEW No. C53399 Exp. 6/30/11 CIVIL STATE OF CALIFORNIA

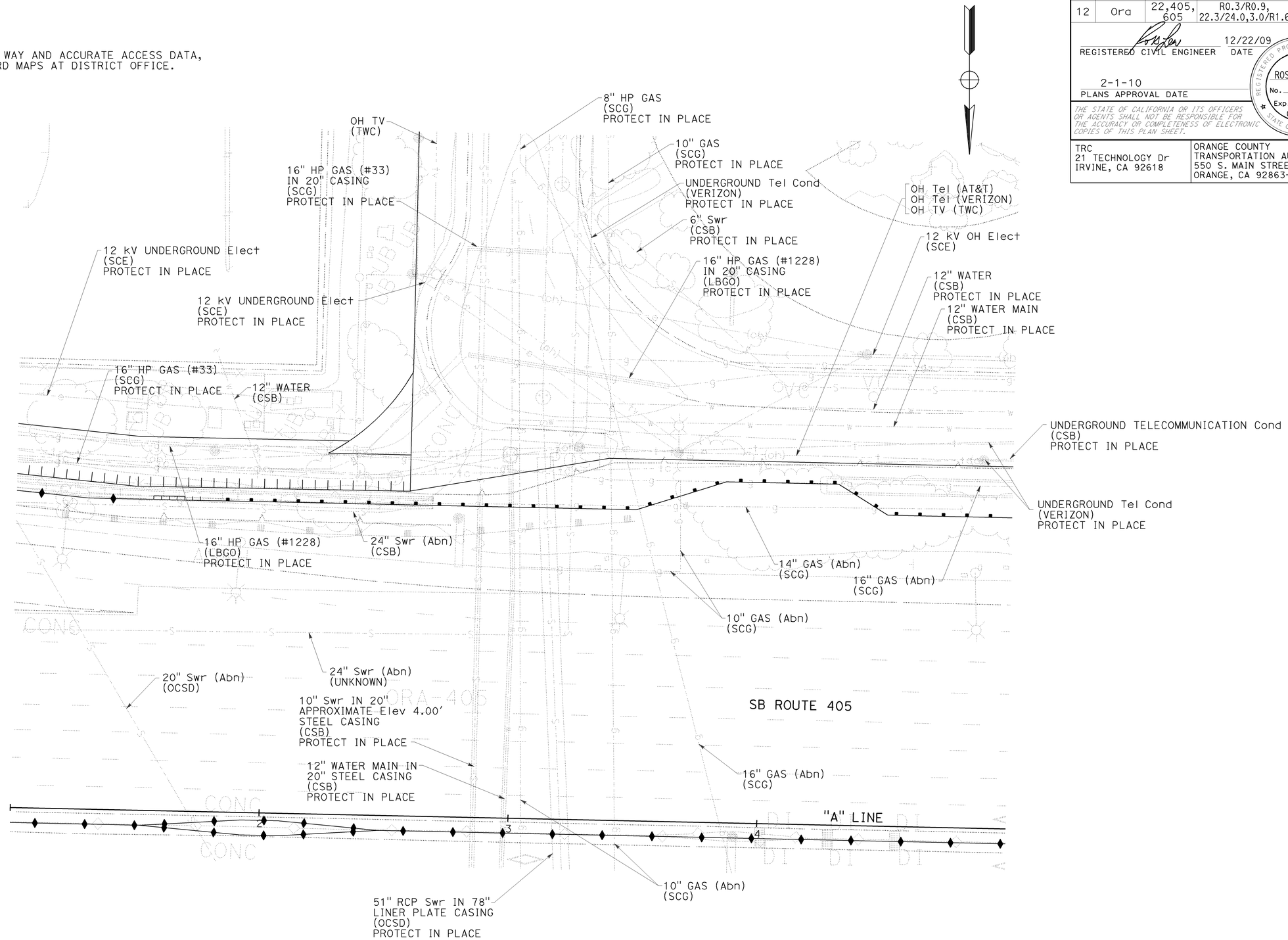
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

TRC
21 TECHNOLOGY Dr
IRVINE, CA 92618

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



UTILITY DETAIL

SCALE 1" = 20'

UD-1

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
CALCULATED-DESIGNED BY: ALI JERAJ
CHECKED BY: KAREN CHAPMAN
REVISED BY: DBL
DATE REVISED: 12/22/09

LAST REVISION 12-22-09
DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 11:01

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trrichf
DGN FILE => c07163kb001.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	604	1929

REGISTERED CIVIL ENGINEER — 8/10/09 DATE

ROSS E. LEW No. C53399 Exp. 6/30/11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
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.

TRC
21 TECHNOLOGY Dr
IRVINE, CA 92618

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

POTHOLING INFORMATION

XX	(ZONE 6, DATUM 1991.35) NORTHING	EASTING	STATION	OFFSET	APPROXIMATE OG ELEVATION	DEPTH TO TOP OF UTILITY	APPROXIMATE TOP OF UTILITY ELEVATION	OWNER
1	2230074.06	6009485.10	"A" 391+25.44	125.68' Lt	16.11'	3.20'	12.91'	LBGO
2	2230063.91	6009481.81	"A" 391+28.51	135.89' Lt	15.99'	3.90'	12.09'	SCG
3	2230080.48	6009204.80	"A" 394+05.81	125.28' Lt	15.79'	3.45'	12.34'	LBGO
4	2230069.68	6009204.61	"A" 394+05.77	136.08' Lt	15.95'	3.83'	12.12'	SCG
5	2230083.36	6009026.74	"A" 395+83.89	126.23' Lt	15.52'	3.50'	12.02'	LBGO
6	2230074.32	6009026.65	"A" 395+83.79	135.27' Lt	15.20'	3.25'	11.95'	SCG
7	2230086.25	6008926.97	"A" 396+83.70	125.48' Lt	15.47'	3.55'	11.92'	LBGO
8	2230076.57	6008921.14	"A" 396+89.32	135.29' Lt	14.89'	3.00'	11.89'	SCG
9	2230084.90	6008811.63	"A" 397+98.99	129.31' Lt	14.90'	3.25'	11.65'	LBGO
10	2230078.45	6008811.98	"A" 397+98.50	135.75' Lt	14.65'	3.20'	11.45'	SCG
11	2230347.21	6008953.77	"A" 396+62.52	135.99' Rt	18.19'	7.00'	11.19'	VERIZON
12	2230091.07	6008678.58	"A" 399+32.14	126.00' Lt	14.38'	3.20'	11.18'	LBGO
13	2230081.45	6008678.43	"A" 399+32.08	135.62' Lt	14.00'	2.85'	11.15'	SCG
14	2230082.54	6008638.85	"A" 399+71.68	135.38' Lt	13.83'	3.10'	10.73'	LBGO
15	2230092.72	6008639.09	"A" 399+71.65	125.20' Lt	14.53'	3.30'	11.23'	SCG
16	2230093.35	6008571.99	"A" 400+38.75	126.01' Lt	14.40'	3.70'	10.70'	LBGO
17	2230083.82	6008572.20	"A" 400+38.34	135.54' Lt	13.67'	3.35'	10.32'	SCG
18	2230094.58	6008473.22	"A" 401+37.53	126.91' Lt	13.73'	3.45'	10.28'	LBGO
19	2230085.71	6008473.89	"A" 401+36.67	135.76' Lt	13.44'	3.30'	10.14'	SCG
20	2230096.99	6008421.63	"A" 401+89.16	125.61' Lt	13.59'	3.50'	10.09'	LBGO
21	2230087.28	6008421.65	"A" 401+88.93	135.31' Lt	13.24'	3.35'	9.89'	SCG
22	2230098.37	6008340.22	"A" 402+70.58	125.98' Lt	13.97'	3.85'	10.12'	LBGO
23	2230088.28	6008340.45	"A" 402+70.13	136.06' Lt	13.30'	3.60'	9.70'	SCG
24	2230100.83	6008224.57	"A" 403+86.25	126.00' Lt	13.61'	3.80'	9.81'	LBGO
25	2230090.44	6008225.15	"A" 403+85.45	136.38' Lt	13.07'	3.90'	9.17'	SCG
26	2230101.57	6008147.01	"SB-2" 44+64.23	24.50' Lt	14.06'	4.70'	9.36'	LBGO
27	2230093.08	6008135.15	"SB-2" 44+76.05	33.04' Lt	13.48'	4.10'	9.38'	SCG
28	2230088.85	6008133.90	"SB-2" 44+77.28	37.28' Lt	13.78'	5.20'	8.58'	LBGO
29	2230100.20	6007944.14	"SB-2" 46+67.09	26.81' Lt	13.70'	3.70'	10.00'	VERIZON
30	2230097.36	6007944.40	"SB-2" 46+66.82	29.65' Lt	13.80'	5.30'	8.50'	SCG
31	2230090.92	6007944.18	"SB-2" 46+67.01	36.09' Lt	14.02'	4.40'	9.62'	LBGO
32	2230099.90	6007910.54	"SB-2" 47+00.69	27.26' Lt	13.48'	4.20'	9.28'	SCG
33	2230097.48	6007910.39	"SB-2" 47+00.83	29.68' Lt	13.65'	4.70'	8.95'	LBGO
34	2230091.48	6007910.69	"SB-2" 47+00.50	35.68' Lt	13.85'	3.60'	10.25'	VERIZON
35	2230098.87	6007866.03	"SB-2" 47+45.29	28.48' Lt	13.62'	4.20'	9.42'	SCG
36	2230089.80	6007861.66	"SB-2" 47+49.70	37.55' Lt	13.91'	4.60'	9.31'	LBGO
37	2230099.70	6007812.46	"SB-2" 47+99.35	27.24' Lt	13.78'	4.10'	9.68'	SCG
38	2230097.20	6007812.71	"SB-2" 47+99.14	29.74' Lt	14.13'	4.10'	10.03'	LBGO
39	2230089.45	6007812.96	"SB-2" 47+99.02	37.49' Lt	13.61'	4.00'	9.61'	VERIZON
40	2230510.05	6007968.63	"SB-1" 47+09.98	67.14' Rt	16.82'	7.30'	9.52'	VERIZON
41	2230515.73	6007957.22	"SB-1" 47+25.02	64.00' Rt	17.42'	8.10'	9.32'	SCG
42	2230331.92	6007964.75	"A" 406+50.98	99.45' Rt	15.18'	5.90'	9.28'	VERIZON
43	2230332.36	6007952.34	"A" 406+63.40	99.62' Rt	15.15'	7.85'	7.30'	SCG
44	2230073.44	6007613.37	"SB-2" 50+09.56	33.55' Lt	13.59'	4.26'	9.33'	LBGO
45	2230069.02	6007614.87	"SB-2" 50+09.39	38.21' Lt	13.63'	4.75'	8.88'	SCG
46	2230064.41	6007616.14	"SB-2" 50+09.52	42.99' Lt	13.57'	5.00'	8.57'	VERIZON
47	2230049.93	6007573.78	"SB-2" 50+59.27	41.96' Lt	13.54'	4.00'	9.54'	SCG

POTHOLING INFORMATION

XX	(ZONE 6, DATUM 1991.35) NORTHING	EASTING	STATION	OFFSET	APPROXIMATE OG ELEVATION	DEPTH TO TOP OF UTILITY	APPROXIMATE TOP OF UTILITY ELEVATION	OWNER
48	2230045.75	6007575.74	"SB-2" 50+59.13	46.58' Lt	13.55'	4.60'	8.95'	LBGO
49	2230001.82	6007489.98	"SB-2" 51+66.54	40.40' Lt	14.31'	6.50'	7.81'	VERIZON
50	2229998.33	6007496.42	"SB-2" 51+63.25	47.11' Lt	9.52'	4.60'	4.92'	SCG
51	2229986.37	6007479.72	"SB-2" 51+86.27	45.86' Lt	9.37'	4.40'	4.97'	LBGO
52	2230004.57	6007427.10	"SB-2" 52+14.23	2.98' Rt	8.08'	8.60'	-0.52'	VERIZON
53	2229999.13	6007416.99	"SB-2" 52+25.34	5.86' Rt	16.88'	8.00'	8.88'	SCG
54	2229989.22	6007405.16	"SB-2" 52+40.76	6.61' Rt	16.72'	8.00'	8.72'	LBGO
55	2230006.67	6007161.58	"SB-3" 34+37.12	91.70' Lt	13.88'	5.40'	8.48'	SCG
56	2230001.92	6007163.85	"SB-3" 34+30.21	96.14' Lt	13.93'	5.50'	8.43'	VERIZON
57	2229993.54	6007167.91	"SB-3" 34+09.59	103.42' Lt	14.02'	5.25'	8.77'	LBGO
58	2230838.76	6007422.61	"SB" 60+10.43	90.72' Lt	28.54'	NOT FOUND @ 3'	NOT FOUND	Qwest
59	2230822.68	6007434.90	"SB" 60+05.23	71.16' Lt	28.43'	1.20'	27.23'	TWC
60	2230813.00	6007428.88	"SB" 59+93.89	70.00' Lt	29.67'	NOT FOUND @ 9'	NOT FOUND	Qwest
61	2230517.30	6007235.89	"SB" 56+41.93	41.63' Lt	40.23'	1.70'	38.53'	TWC
62	2230088.89	6006753.60	"SB-3" 38+51.53	53.29' Lt	13.85'	5.40'	8.45'	SCG
63	2230083.96	6006753.37	"SB-3" 38+51.24	58.23' Lt	13.62'	5.25'	8.37'	LBGO
64	2230102.24	6006668.06	"SB-3" 39+38.01	49.11' Lt	14.16'	5.65'	8.51'	SCG
65	2230111.51	6006583.76	"A" 420+26.91	150.59' Lt	14.28'	5.00'	9.28'	SCG
66	2230121.11	6006532.68	"A" 420+78.19	142.09' Rt	14.20'	4.55'	9.65'	SCG
67	2230131.61	6006386.62	"A" 422+24.44	134.73' Lt	14.20'	9.40'	4.80'	VERIZON
68	2230125.68	6006301.49	"A" 423+09.42	142.49' Lt	14.29'	4.10'	10.19'	VERIZON
69	2230126.48	6006299.80	"A" 423+11.13	141.72' Lt	14.37'	11.00'	3.37'	OCSD
70	2230430.53	6006322.43	"A" 422+95.04	162.74' Rt	13.60'	8.70'	4.90'	CSB
71	2230431.18	6006290.27	"A" 423+27.21	162.7' Rt	13.70'	10.25'	3.45'	OCSD
72	2230121.77	6005906.82	"A" 427+03.92	154.88' Lt	12.91'	9.10'	3.81'	SCG
73	2230501.51	6005919.23	"OR" 16+55.49	6.81' Rt	14.73'	6.20'	8.53'	SCG
74	2230565.34	6004736.62	"OR" 4+54.43	83.91 Lt	9.91'	5.70'	4.21'	VERIZON
75	2230146.97	6004691.61	"A" 439+19.39	155.80' Lt	11.65'	4.35'	7.30'	SCG
76	2230149.41	6004594.32	"C-3" 48+22.06	60.51' Rt	11.56'	4.30'	7.26'	SCG
77	2230151.16	6004493.25	"C-3" 47+20.99	58.91' Rt	11.36'	4.30'	7.06'	SCG
78	2230153.98	6004394.51	"C-3" 46+22.25	56.24' Rt	11.46'	4.10'	7.36'	SCG
79	2230155.19	6004295.75	"C-3" 45+24.69	56.22' Rt	11.12'	4.10'	7.02'	SCG
80	2230157.24	6004197.60	"C-3" 44+27.55	57.47' Rt	10.95'	4.15'	6.80'	SCG
81	2230159.93	6004098.59	"C-3" 43+28.89	59.17' Rt	10.77'	4.00'	6.77'	SCG
82	2230162.19	6003999.51	"C-3" 42+30.22	61.95' Rt	10.81'	4.15'	6.66'	SCG

UTILITY DETAIL

NO SCALE **UD-2**

CALCULATED-DESIGNED BY	CHECKED BY	
DBL	8/10/09	
REVISED BY	DATE REVISED	
ALI JERAJ	KAREN CHAPMAN	
CONSULTANT FUNCTIONAL SUPERVISOR		
ROSS LEW		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 10:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	605	1929

REGISTERED CIVIL ENGINEER — DATE 8/10/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ROSS E. LEW
No. C53399
Exp. 6/30/11
CIVIL
STATE OF CALIFORNIA

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TRC
21 TECHNOLOGY Dr
IRVINE, CA 92618

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

POTHOLING INFORMATION

XX	(ZONE 6, DATUM 1991.35) NORTHING	EASTING	STATION	OFFSET	APPROXIMATE OG ELEVATION	DEPTH TO TOP OF UTILITY	APPROXIMATE TOP OF UTILITY ELEVATION	OWNER
83	2230164.41	6003899.59	"C-3" 41+30.76	65.47' R+	10.71'	4.50'	6.21'	SCG
84	2230166.10	6003801.27	"C-3" 40+32.97	70.07' R+	10.48'	4.55'	5.93'	SCG
85	2230167.88	6003703.17	"C-3" 39+35.46	75.19' R+	10.41'	8.40'	2.01'	SCG
86	2230170.40	6003668.22	"C-3" 39+00.59	75.29' R+	10.06'	8.40'	1.66'	SCG
87	2230392.24	6004731.57	"A" 438+84.71	90.27' R+	15.48'	10.00'	5.48'	VERIZON
88	2237325.28	6003326.64	"B" 219+05.70	79.05' L+	20.26'	7.00'	13.26'	SCE
89	2237284.31	6003490.45	"B" 219+16.17	89.49' R+	20.19'	7.60'	12.59'	SCE
90	2229420.00	6006371.42	"SB" 42+55.90	70.99' L+	13.54'	NOT FOUND @ 6'	NOT FOUND	Qwest
91	2229418.33	6006362.86	"SB" 42+50.72	77.75' L+	13.66'	NOT FOUND @ 8'	NOT FOUND	Qwest
92	2230495.99	6007998.35	"SB-1" 46+68.72	73.11' R+	17.18'	NOT FOUND @ 10'	NOT FOUND	VERIZON
93	2230095.10	6006818.93	"SB-3" 37+87.23	40.18' L+	13.57'	4.10'	9.47'	QWEST
94	2230127.85	6006413.66	"A" 421+97.33	137.91' L+	14.48'	3.35'	11.13'	CSB
95	2230127.64	6006384.97	"A" 422+26.00	138.74' L+	14.46'	3.20'	11.26'	CSB
96	2230126.04	6006385.28	"A" 422+25.66	140.33' L+	14.46'	4.60'	9.86'	CSB
97	2230175.32	6003699.47	"C-3" 39+31.24	68.05' R+	10.21'	6.40'	3.81'	LBGO
98	2230198.38	6003646.66	"C-3" 38+77.04	49.04' R+	11.08'	4.20'	6.88'	LBGO
99	2230196.88	6003697.68	"C-3" 39+27.87	46.67' R+	10.26'	7.60'	2.66'	LBGO

UTILITY DETAIL

NO SCALE **UD-3**

REVISED BY: DBL — DATE REVISED: 8/10/09
CALCULATED-DESIGNED BY: ALI JERAJ
CHECKED BY: KAREN CHAPMAN
CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
LAST REVISION TIME PLOTTED => 10:50
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trrichf
DGN FILE => c07163kb003.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	606	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
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.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

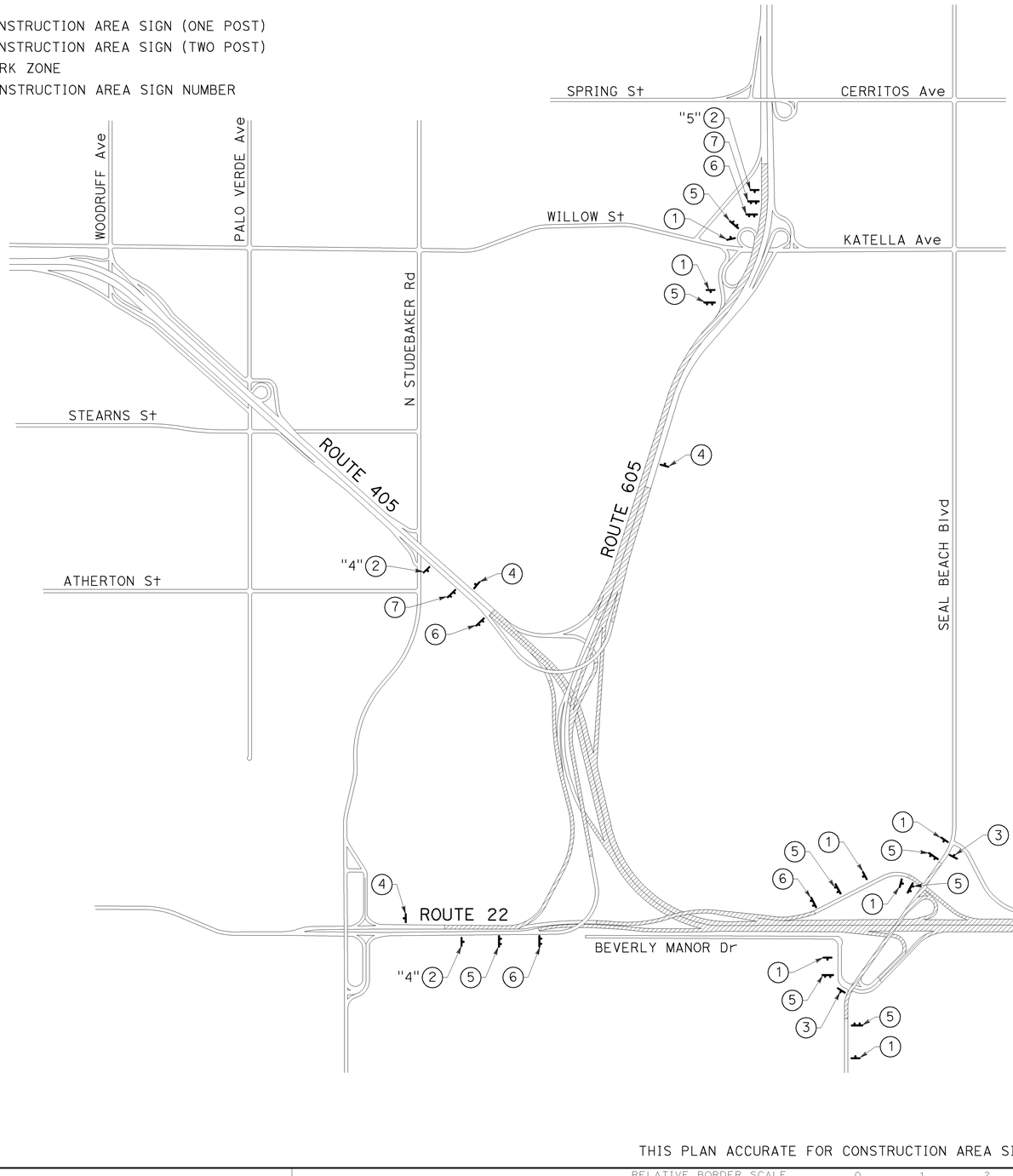
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS AND DETAILS, SEE STAGE CONSTRUCTION TRAFFIC HANDLING PLANS AND TRAFFIC HANDLING DETOUR LAYOUTS.

LEGEND

- CONSTRUCTION AREA SIGN (ONE POST)
- CONSTRUCTION AREA SIGN (TWO POST)
- WORK ZONE
- (X) CONSTRUCTION AREA SIGN NUMBER



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	No. OF SIGNS	PANEL SIZE	No. OF POSTS AND SIZE	SIGN MESSAGE
(1)	W20-1	7	36" x 36"	1-4" x 6"	"ROAD WORK AHEAD"
(2)	W20-1 W7-3a Mod	3	48" x 48" 24" x 18"	1-6" x 6"	"ROAD WORK AHEAD" "NEXT X MILES"
(3)	G20-2	2	36" x 18"	1-4" x 6"	"END ROAD WORK"
(4)	G20-2	3	48" x 24"	1-4" x 6"	"END ROAD WORK"
(5)	C40(CA)	7	108" x 42"	2-6" x 6"	"TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES"
(6)	FUNDING SIGN	4	132" x 116"	2-LAMINATED WOOD POSTS (TYPE L)	SEE SHEET CS-2
(7)	C40(CA)	3	144" x 60"	2-6" x 8"	"TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES"

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

KELSIE ANDERSON
JULIET SU
CALCULATED-DESIGNED BY
CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR
LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 10:50
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trrichf
DGN FILE => c071631a001.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	607	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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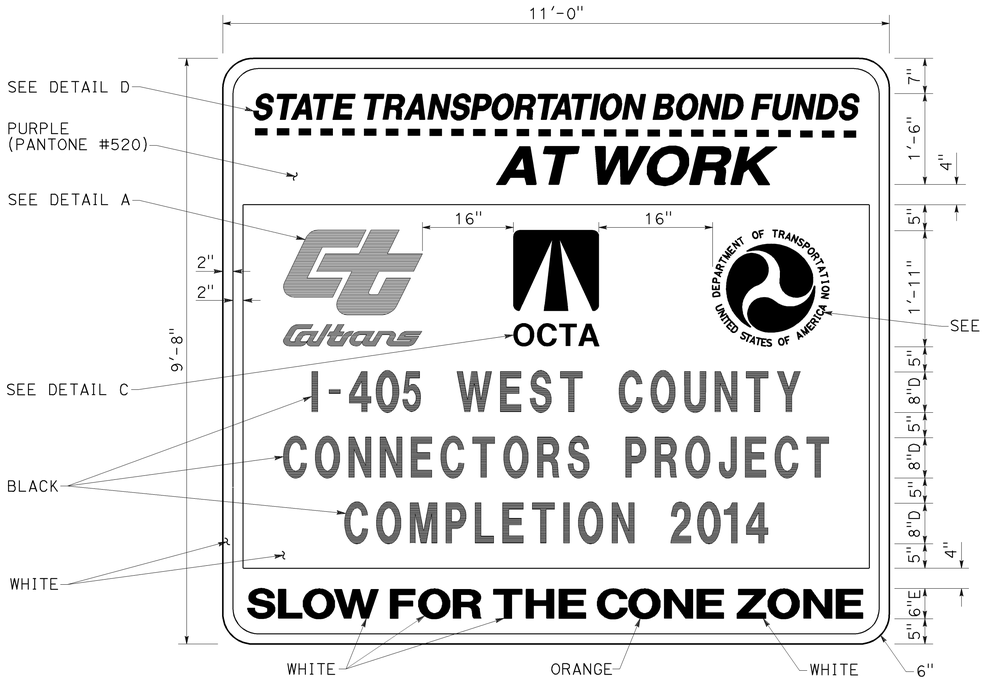
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTES:

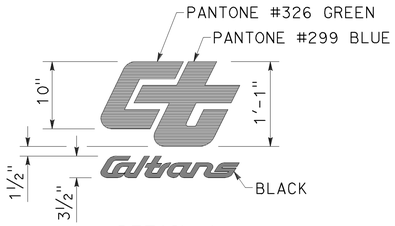
1. VECTOR FILES FOR LOGOS TO BE SUPPLIED TO THE SIGN MANUFACTURER UPON REQUEST.
2. COMPLY WITH 2006 STANDARD PLANS S93 AND S94 FOR SIGN PANEL.
3. COMPLY WITH ASTM TYPE II RETROREFLECTIVE SHEETING (OR HIGHER GRADE) FOR ALL COLORS EXCEPT BLACK.
4. LEGEND AND ARTWORK MAY BE TRANSPARENT FILM, INK, OR APPLIED DECALS.
5. OVERLAY ENTIRE SIGN FACE WITH PREMIUM GRADE GRAFFITI FILM.
6. COMPLY WITH RETROREFLECTIVE SHEETING MANUFACTURER'S RECOMMENDATIONS FOR TRANSPARENT FILM, INK, APPLIED DECALS, AND GRAFFITI FILM.



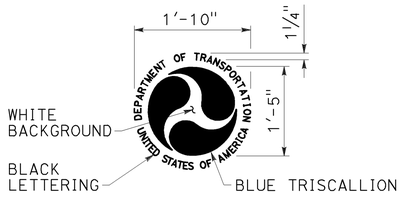
COLORS:

BORDER - PURPLE (PANTONE #520)
LEGEND - BLACK, WHITE AND ORANGE
BACKGROUND - PURPLE (PANTONE #520) AND WHITE

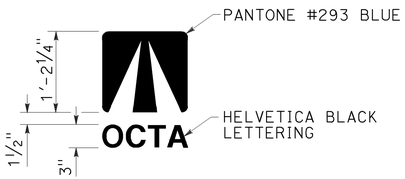
FUNDING SIGN



DETAIL A



DETAIL B



DETAIL C

W7-3a Mod

NOTES:

1. BACKGROUND - ORANGE
2. REPLACE "X" WITH NUMBER SHOWN ON PLAN.

DETAIL D

CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION — DATE PLOTTED => 03-FEB-2010 — TIME PLOTTED => 10:50 — 08-10-09

BORDER LAST REVISED 8/1/2008 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — USERNAME => trrichf — DGN FILE => c071631a002.dgn — CU 12235 — EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	608	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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IRVINE, CA 92606

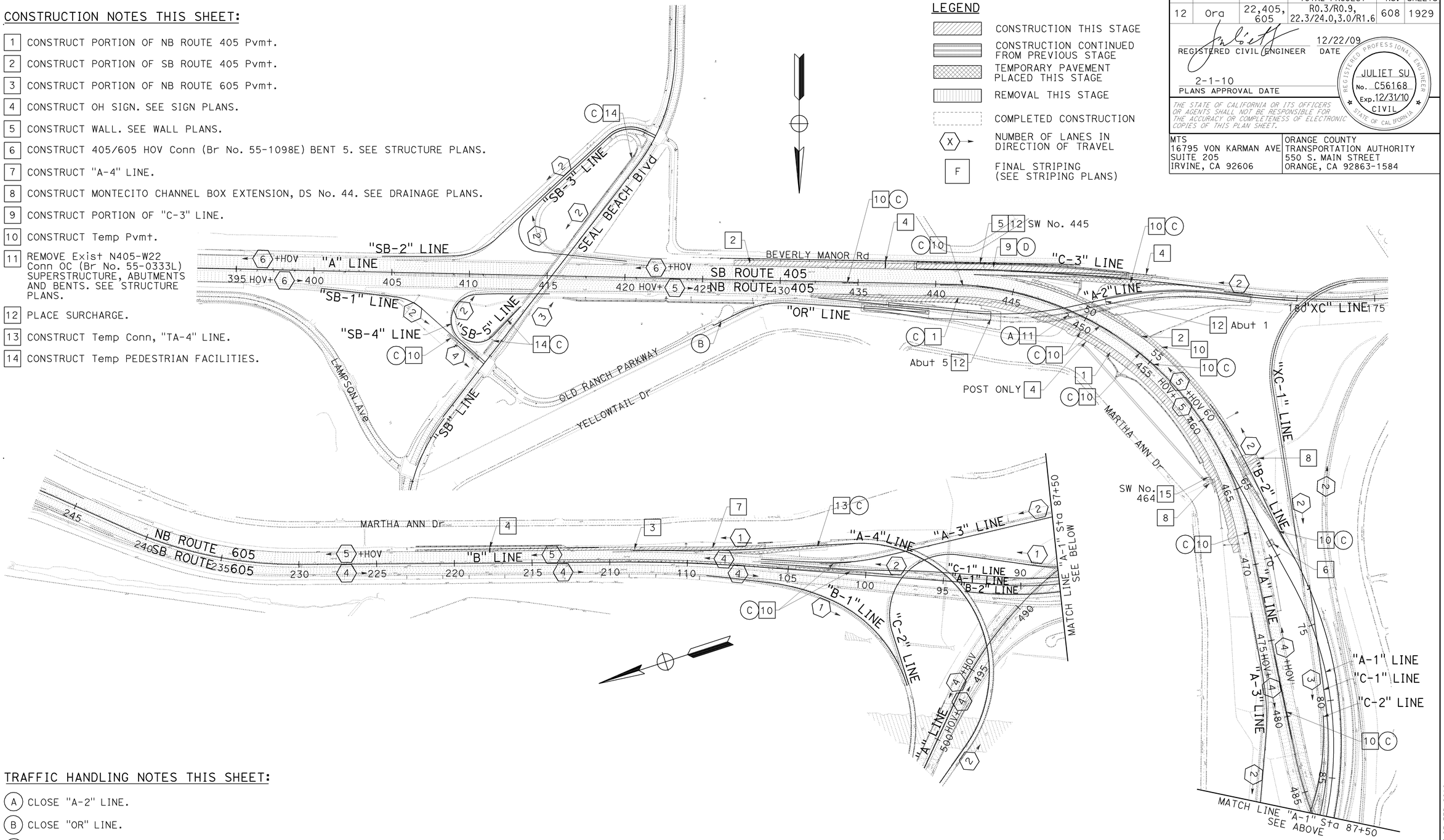
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION NOTES THIS SHEET:

1. CONSTRUCT PORTION OF NB ROUTE 405 Pvmt.
2. CONSTRUCT PORTION OF SB ROUTE 405 Pvmt.
3. CONSTRUCT PORTION OF NB ROUTE 605 Pvmt.
4. CONSTRUCT OH SIGN. SEE SIGN PLANS.
5. CONSTRUCT WALL. SEE WALL PLANS.
6. CONSTRUCT 405/605 HOV Conn (Br No. 55-1098E) BENT 5. SEE STRUCTURE PLANS.
7. CONSTRUCT "A-4" LINE.
8. CONSTRUCT MONTECITO CHANNEL BOX EXTENSION, DS No. 44. SEE DRAINAGE PLANS.
9. CONSTRUCT PORTION OF "C-3" LINE.
10. CONSTRUCT Temp Pvmt.
11. REMOVE Exist N405-W22 Conn OC (Br No. 55-0333L) SUPERSTRUCTURE, ABUTMENTS AND BENTS. SEE STRUCTURE PLANS.
12. PLACE SURCHARGE.
13. CONSTRUCT Temp Conn, "TA-4" LINE.
14. CONSTRUCT Temp PEDESTRIAN FACILITIES.

LEGEND

- CONSTRUCTION THIS STAGE
- CONSTRUCTION CONTINUED FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT PLACED THIS STAGE
- REMOVAL THIS STAGE
- COMPLETED CONSTRUCTION
- (X) NUMBER OF LANES IN DIRECTION OF TRAVEL
- F FINAL STRIPING (SEE STRIPING PLANS)



TRAFFIC HANDLING NOTES THIS SHEET:

(A) CLOSE "A-2" LINE.

(B) CLOSE "OR" LINE.

(C) OVERNIGHT LANE CLOSURE REQUIRED. USE STANDARD PLAN T10.

STAGE 1A

STAGE CONSTRUCTION INDEX

SCALE: 1" = 300'

SC-1

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON

CHECKED BY: JULIET SU

REVISED BY: KLA — DATE REVISED: 12/22/09

LAST REVISION — DATE PLOTTED => 03-FEB-2010 — TIME PLOTTED => 11:24 — 08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmnguye
DGN FILE => c07163ma001.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	609	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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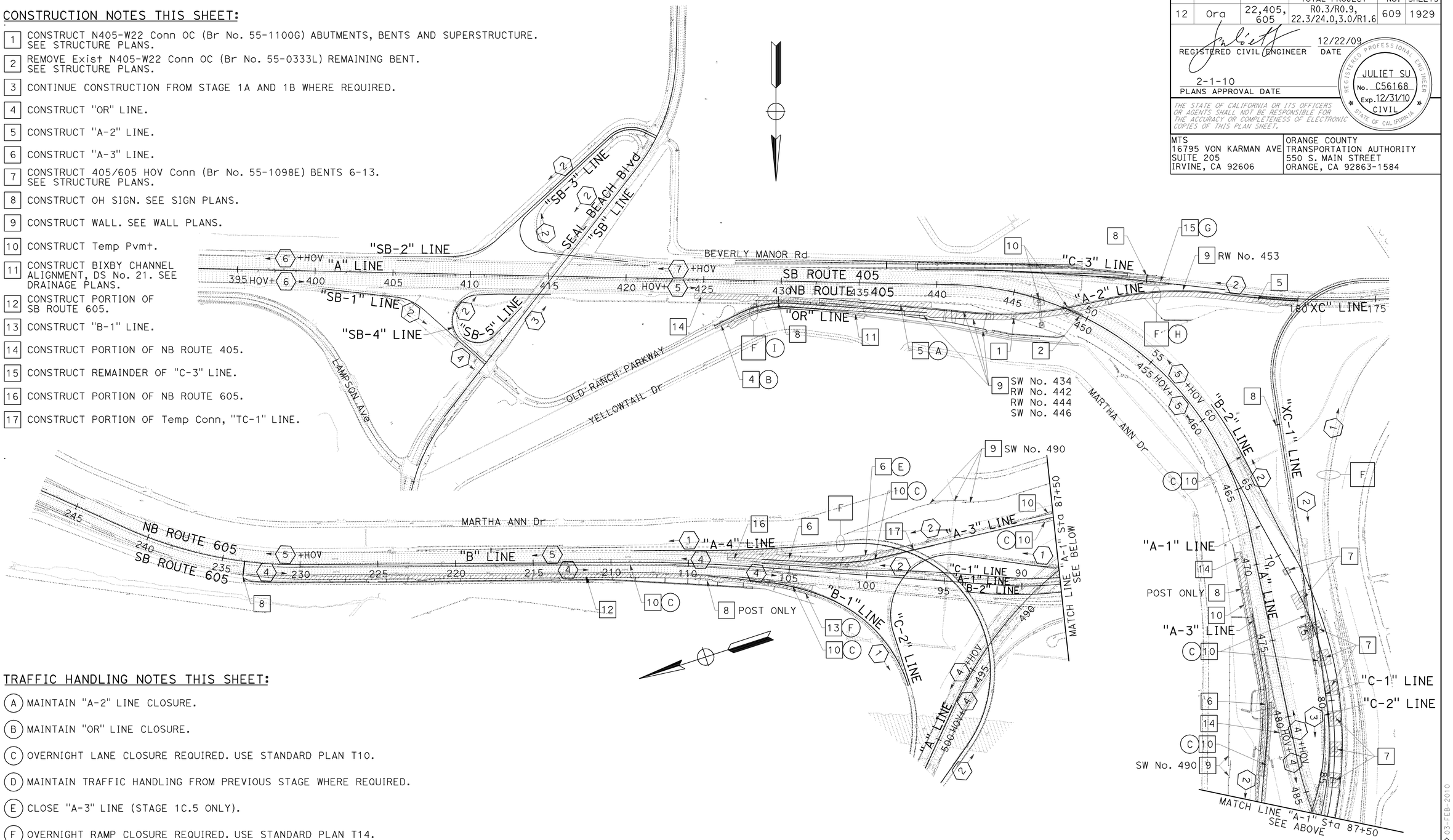
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION NOTES THIS SHEET:

1. CONSTRUCT N405-W22 Conn OC (Br No. 55-1100G) ABUTMENTS, BENTS AND SUPERSTRUCTURE. SEE STRUCTURE PLANS.
2. REMOVE Exist N405-W22 Conn OC (Br No. 55-0333L) REMAINING BENT. SEE STRUCTURE PLANS.
3. CONTINUE CONSTRUCTION FROM STAGE 1A AND 1B WHERE REQUIRED.
4. CONSTRUCT "OR" LINE.
5. CONSTRUCT "A-2" LINE.
6. CONSTRUCT "A-3" LINE.
7. CONSTRUCT 405/605 HOV Conn (Br No. 55-1098E) BENTS 6-13. SEE STRUCTURE PLANS.
8. CONSTRUCT OH SIGN. SEE SIGN PLANS.
9. CONSTRUCT WALL. SEE WALL PLANS.
10. CONSTRUCT Temp Pvmt.
11. CONSTRUCT BIXBY CHANNEL ALIGNMENT, DS No. 21. SEE DRAINAGE PLANS.
12. CONSTRUCT PORTION OF SB ROUTE 605.
13. CONSTRUCT "B-1" LINE.
14. CONSTRUCT PORTION OF NB ROUTE 405.
15. CONSTRUCT REMAINDER OF "C-3" LINE.
16. CONSTRUCT PORTION OF NB ROUTE 605.
17. CONSTRUCT PORTION OF Temp Conn, "TC-1" LINE.



TRAFFIC HANDLING NOTES THIS SHEET:

- (A) MAINTAIN "A-2" LINE CLOSURE.
- (B) MAINTAIN "OR" LINE CLOSURE.
- (C) OVERNIGHT LANE CLOSURE REQUIRED. USE STANDARD PLAN T10.
- (D) MAINTAIN TRAFFIC HANDLING FROM PREVIOUS STAGE WHERE REQUIRED.
- (E) CLOSE "A-3" LINE (STAGE 1C.5 ONLY).
- (F) OVERNIGHT RAMP CLOSURE REQUIRED. USE STANDARD PLAN T14.
- (G) CLOSE "C-3" LINE (STAGE 1B.5 ONLY).
- (H) OPEN "A-2" LINE TO TRAFFIC (STAGE 1B.3).
- (I) OPEN "OR" LINE TO TRAFFIC (STAGE 1B.3).

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

STAGE 1B
STAGE CONSTRUCTION INDEX

SCALE: 1" = 300'

SC-2

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED- DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 11:24
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163ma002.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	610	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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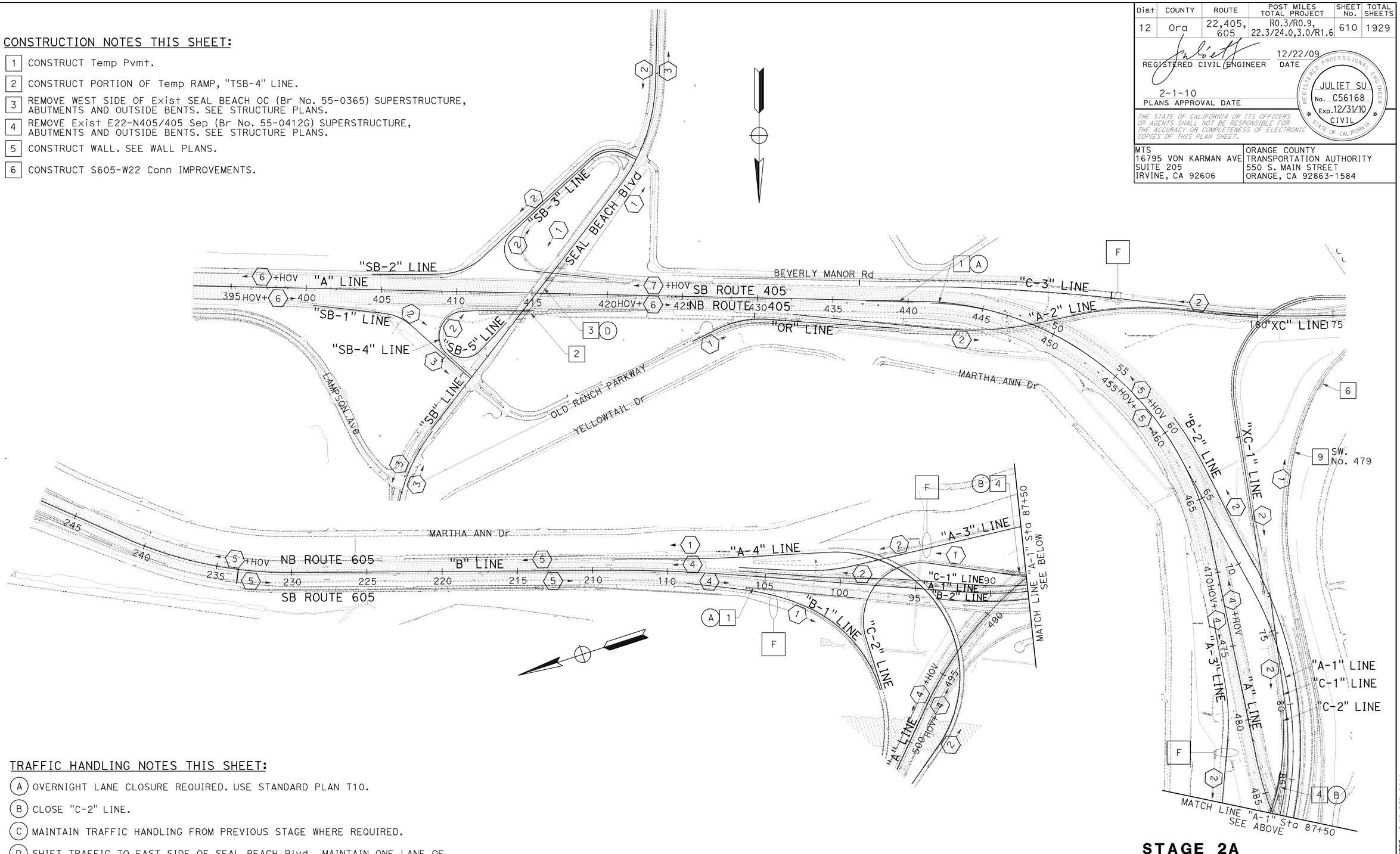
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION NOTES THIS SHEET:

1. CONSTRUCT Temp Pvmt.
2. CONSTRUCT PORTION OF Temp RAMP, "TSB-4" LINE.
3. REMOVE WEST SIDE OF Exist SEAL BEACH OC (Br No. 55-0365) SUPERSTRUCTURE, ABUTMENTS AND OUTSIDE BENTS. SEE STRUCTURE PLANS.
4. REMOVE Exist E22-N405/405 Sep (Br No. 55-0412G) SUPERSTRUCTURE, ABUTMENTS AND OUTSIDE BENTS. SEE STRUCTURE PLANS.
5. CONSTRUCT WALL. SEE WALL PLANS.
6. CONSTRUCT S605-W22 Conn IMPROVEMENTS.



TRAFFIC HANDLING NOTES THIS SHEET:

(A) OVERNIGHT LANE CLOSURE REQUIRED. USE STANDARD PLAN T10.

(B) CLOSE "C-2" LINE.

(C) MAINTAIN TRAFFIC HANDLING FROM PREVIOUS STAGE WHERE REQUIRED.

(D) SHIFT TRAFFIC TO EAST SIDE OF SEAL BEACH Blvd. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION AND 11' MEDIAN. MAINTAIN PEDESTRIAN ACCESS.

STAGE 2A

STAGE CONSTRUCTION INDEX

SCALE: 1" = 300'

SC-3

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA — DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 11:25
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye DGN FILE => c07163ma003.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	611	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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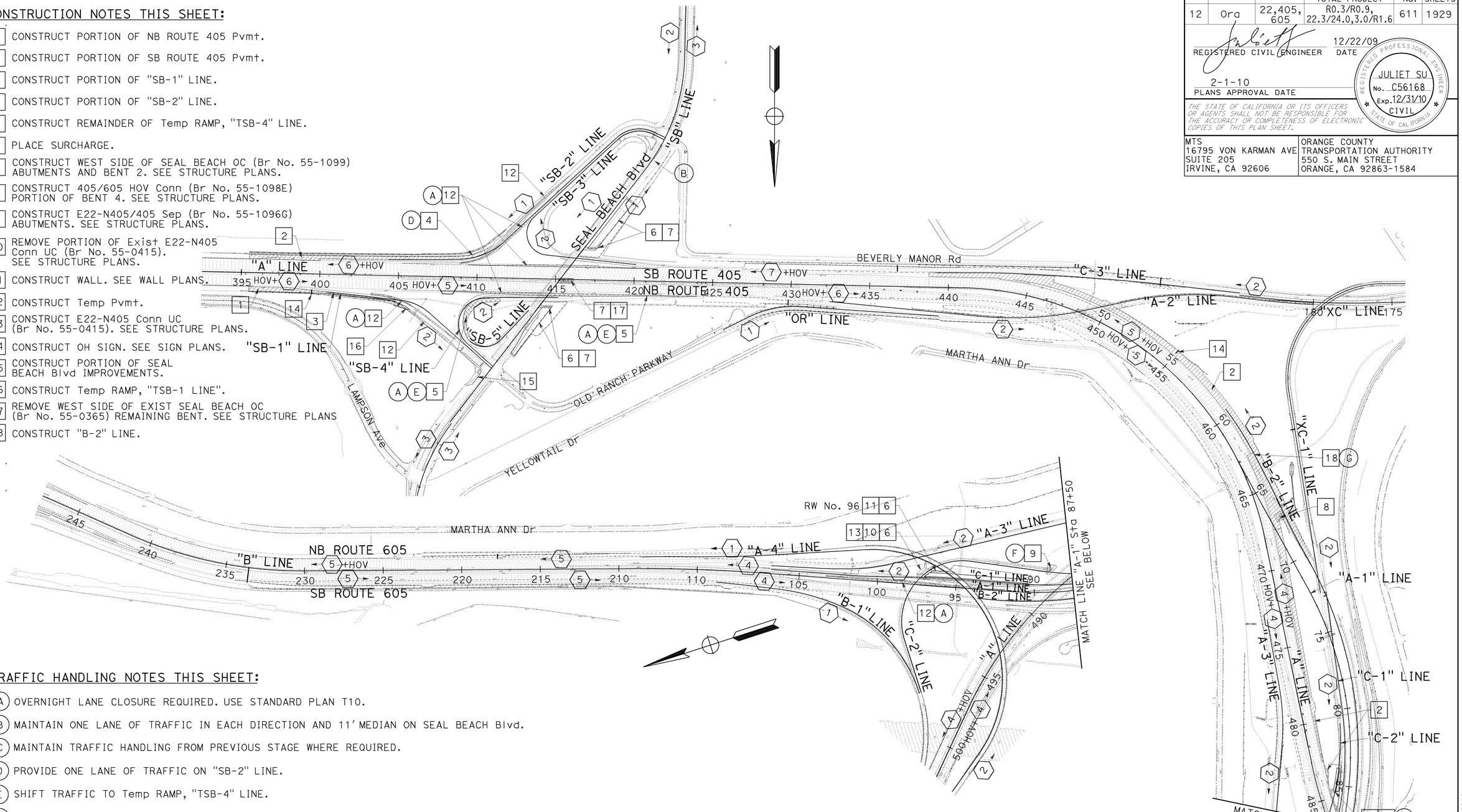
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION NOTES THIS SHEET:

1. CONSTRUCT PORTION OF NB ROUTE 405 Pvmt.
2. CONSTRUCT PORTION OF SB ROUTE 405 Pvmt.
3. CONSTRUCT PORTION OF "SB-1" LINE.
4. CONSTRUCT PORTION OF "SB-2" LINE.
5. CONSTRUCT REMAINDER OF Temp RAMP, "TSB-4" LINE.
6. PLACE SURCHARGE.
7. CONSTRUCT WEST SIDE OF SEAL BEACH OC (Br No. 55-1099) ABUTMENTS AND BENT 2. SEE STRUCTURE PLANS.
8. CONSTRUCT 405/605 HOV Conn (Br No. 55-1098E) PORTION OF BENT 4. SEE STRUCTURE PLANS.
9. CONSTRUCT E22-N405/405 Sep (Br No. 55-1096G) ABUTMENTS. SEE STRUCTURE PLANS.
10. REMOVE PORTION OF Exist E22-N405 Conn UC (Br No. 55-0415). SEE STRUCTURE PLANS.
11. CONSTRUCT WALL. SEE WALL PLANS.
12. CONSTRUCT Temp Pvmt.
13. CONSTRUCT E22-N405 Conn UC (Br No. 55-0415). SEE STRUCTURE PLANS.
14. CONSTRUCT OH SIGN. SEE SIGN PLANS.
15. CONSTRUCT PORTION OF SEAL BEACH Blvd IMPROVEMENTS.
16. CONSTRUCT Temp RAMP, "TSB-1 LINE".
17. REMOVE WEST SIDE OF EXIST SEAL BEACH OC (Br No. 55-0365) REMAINING BENT. SEE STRUCTURE PLANS
18. CONSTRUCT "B-2" LINE.



TRAFFIC HANDLING NOTES THIS SHEET:

- (A) OVERNIGHT LANE CLOSURE REQUIRED. USE STANDARD PLAN T10.
- (B) MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION AND 11′ MEDIAN ON SEAL BEACH Blvd.
- (C) MAINTAIN TRAFFIC HANDLING FROM PREVIOUS STAGE WHERE REQUIRED.
- (D) PROVIDE ONE LANE OF TRAFFIC ON "SB-2" LINE.
- (E) SHIFT TRAFFIC TO Temp RAMP, "TSB-4" LINE.
- (F) MAINTAIN CLOSURE OF "C-2" LINE.
- (G) CLOSE "B-2" LINE (STAGE 2B.3 ONLY).

STAGE 2B
STAGE CONSTRUCTION INDEX

SCALE: 1" = 300′

SC-4

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 11:25
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163ma004.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	612	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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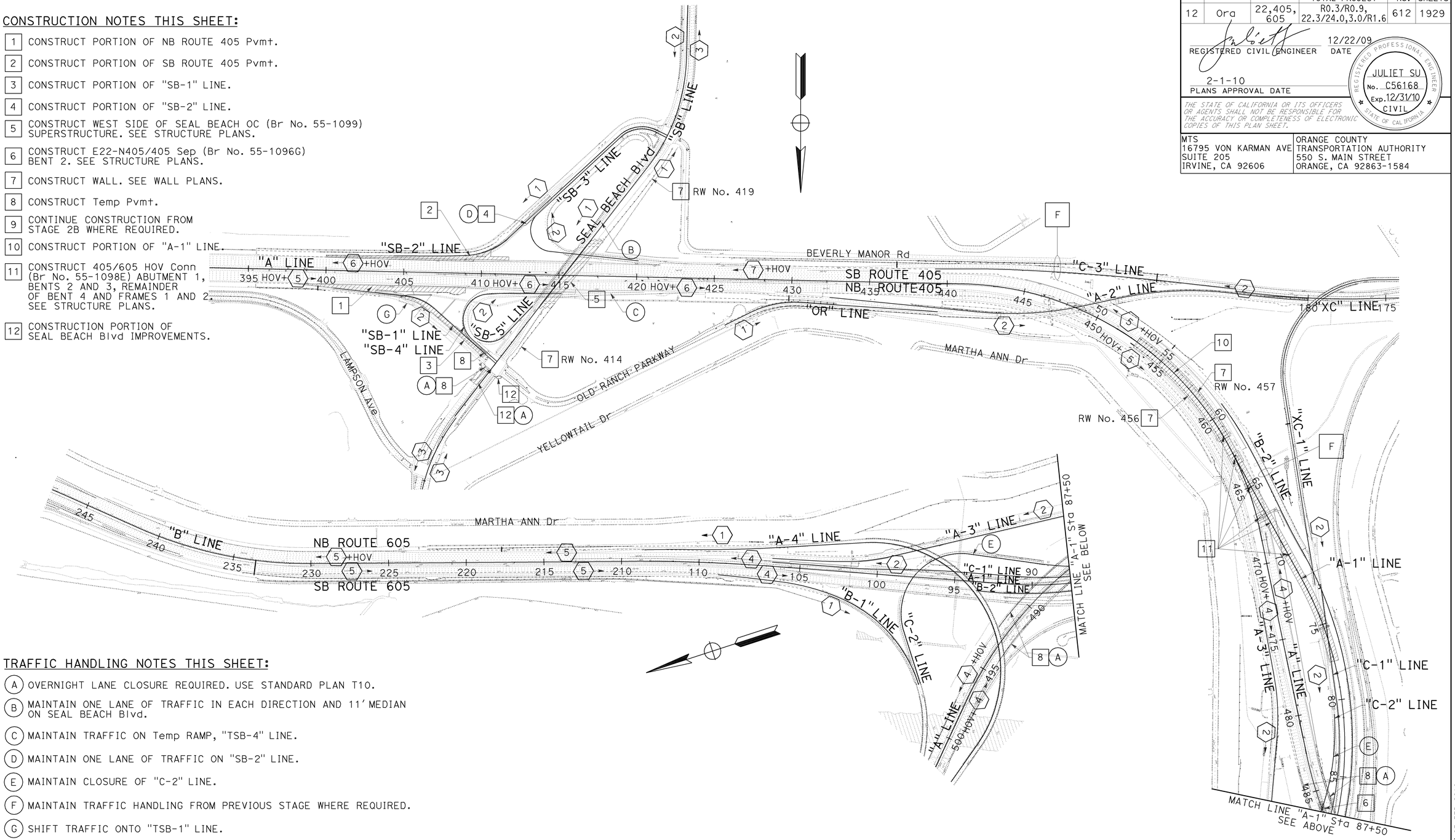
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION NOTES THIS SHEET:

1. CONSTRUCT PORTION OF NB ROUTE 405 Pvmt.
2. CONSTRUCT PORTION OF SB ROUTE 405 Pvmt.
3. CONSTRUCT PORTION OF "SB-1" LINE.
4. CONSTRUCT PORTION OF "SB-2" LINE.
5. CONSTRUCT WEST SIDE OF SEAL BEACH OC (Br No. 55-1099) SUPERSTRUCTURE. SEE STRUCTURE PLANS.
6. CONSTRUCT E22-N405/405 Sep (Br No. 55-1096G) BENT 2. SEE STRUCTURE PLANS.
7. CONSTRUCT WALL. SEE WALL PLANS.
8. CONSTRUCT Temp Pvmt.
9. CONTINUE CONSTRUCTION FROM STAGE 2B WHERE REQUIRED.
10. CONSTRUCT PORTION OF "A-1" LINE.
11. CONSTRUCT 405/605 HOV Conn (Br No. 55-1098E) ABUTMENT 1, BENTS 2 AND 3, REMAINDER OF BENT 4 AND FRAMES 1 AND 2. SEE STRUCTURE PLANS.
12. CONSTRUCTION PORTION OF SEAL BEACH Blvd IMPROVEMENTS.



TRAFFIC HANDLING NOTES THIS SHEET:

- (A) OVERNIGHT LANE CLOSURE REQUIRED. USE STANDARD PLAN T10.
- (B) MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION AND 11′ MEDIAN ON SEAL BEACH Blvd.
- (C) MAINTAIN TRAFFIC ON Temp RAMP, "TSB-4" LINE.
- (D) MAINTAIN ONE LANE OF TRAFFIC ON "SB-2" LINE.
- (E) MAINTAIN CLOSURE OF "C-2" LINE.
- (F) MAINTAIN TRAFFIC HANDLING FROM PREVIOUS STAGE WHERE REQUIRED.
- (G) SHIFT TRAFFIC ONTO "TSB-1" LINE.

STAGE 2C
STAGE CONSTRUCTION INDEX

SCALE: 1" = 300′

SC-5

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
KELSIE ANDERSON	JULIET SU	KLA	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION: DATE PLOTTED => 03-FEB-2010; TIME PLOTTED => 11:25; 08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye; DGN FILE => c07163ma005.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	613	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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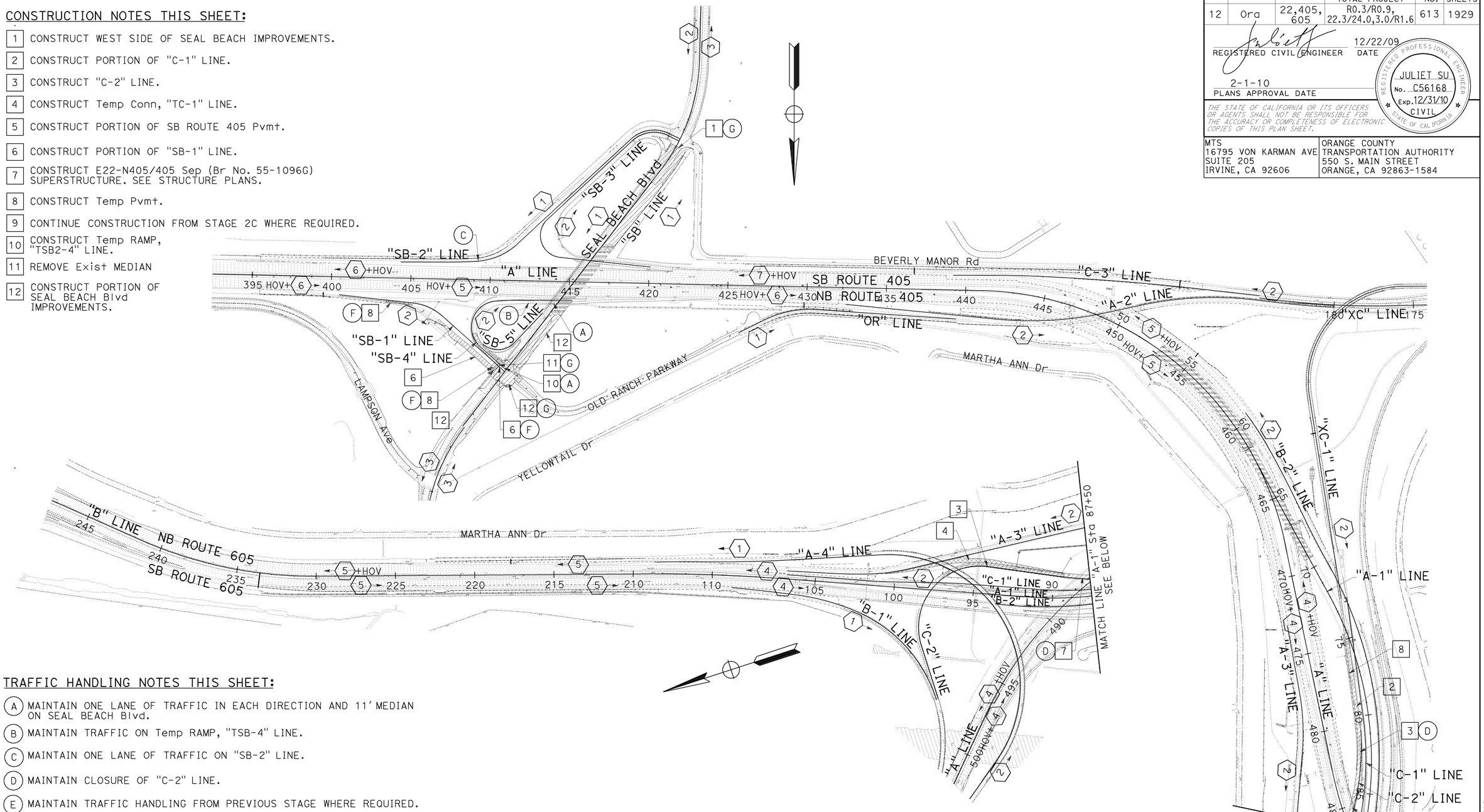
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION NOTES THIS SHEET:

1. CONSTRUCT WEST SIDE OF SEAL BEACH IMPROVEMENTS.
2. CONSTRUCT PORTION OF "C-1" LINE.
3. CONSTRUCT "C-2" LINE.
4. CONSTRUCT Temp Conn, "TC-1" LINE.
5. CONSTRUCT PORTION OF SB ROUTE 405 Pvmt.
6. CONSTRUCT PORTION OF "SB-1" LINE.
7. CONSTRUCT E22-N405/405 Sep (Br No. 55-1096G) SUPERSTRUCTURE. SEE STRUCTURE PLANS.
8. CONSTRUCT Temp Pvmt.
9. CONTINUE CONSTRUCTION FROM STAGE 2C WHERE REQUIRED.
10. CONSTRUCT Temp RAMP, "TSB2-4" LINE.
11. REMOVE Exist MEDIAN
12. CONSTRUCT PORTION OF SEAL BEACH Blvd IMPROVEMENTS.



TRAFFIC HANDLING NOTES THIS SHEET:

- (A) MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION AND 11' MEDIAN ON SEAL BEACH Blvd.
- (B) MAINTAIN TRAFFIC ON Temp RAMP, "TSB-4" LINE.
- (C) MAINTAIN ONE LANE OF TRAFFIC ON "SB-2" LINE.
- (D) MAINTAIN CLOSURE OF "C-2" LINE.
- (E) MAINTAIN TRAFFIC HANDLING FROM PREVIOUS STAGE WHERE REQUIRED.
- (F) OVERNIGHT LANE CLOSURE REQUIRED. USE STANDARD PLAN T10.
- (G) MULTIPLE OVERNIGHT CLOSURES OF SEAL BEACH Blvd INTERSECTION REQUIRED. (STAGE 2D.2)

STAGE 2D

STAGE CONSTRUCTION INDEX

SCALE: 1" = 300'

SC-6

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CALCULATED-DESIGNED BY
CHECKED BY
KLA — REVISED BY — 12/22/09 — DATE REVISED
KELSIE ANDERSON — JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR — LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION | DATE PLOTTED => 03-FEB-2010 | 08-10-09 | TIME PLOTTED => 11:25

BORDER LAST REVISED 8/1/2008 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — USERNAME => trmnguye — DGN FILE => c07163ma006.dgn — CU 12235 — EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	614	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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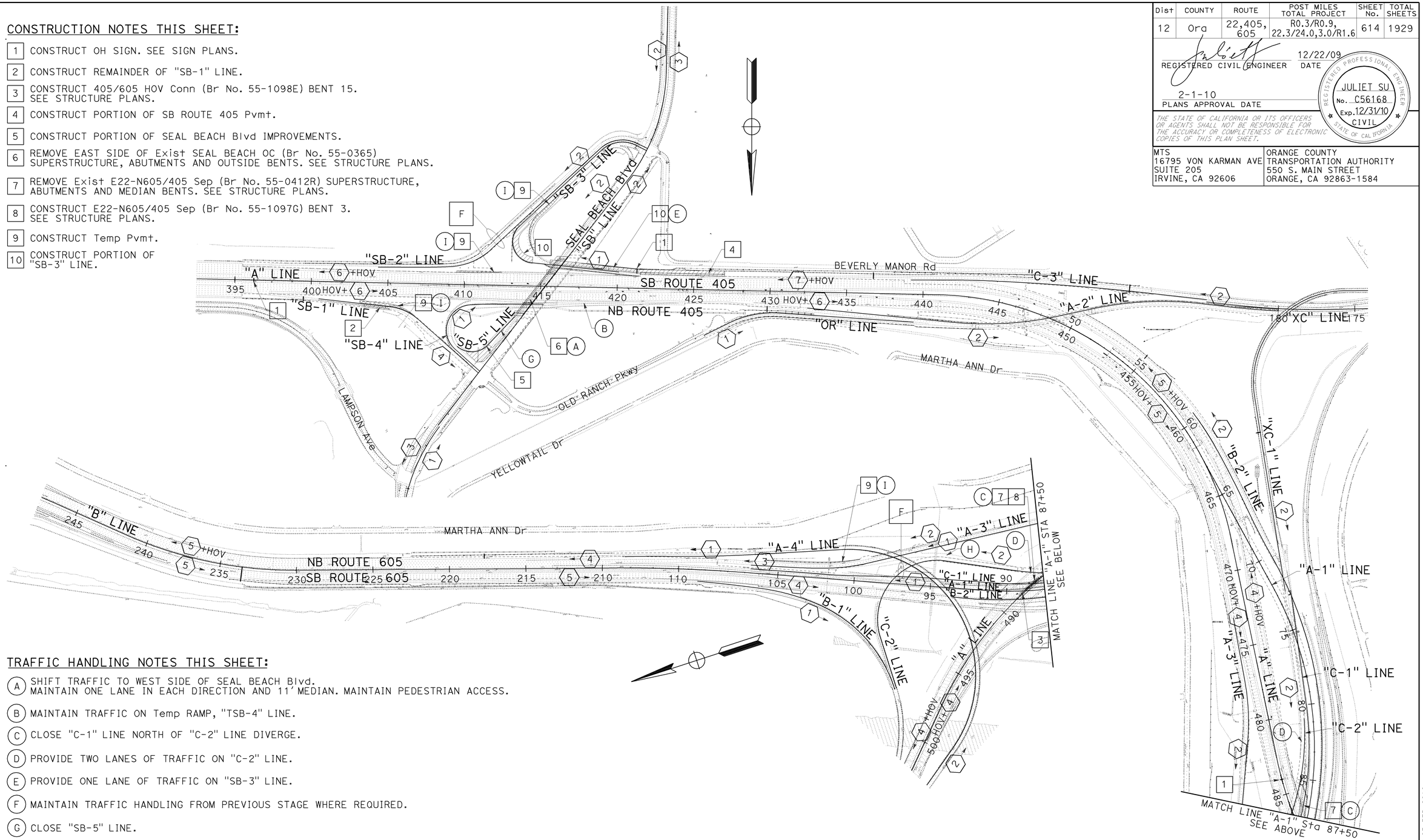
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION NOTES THIS SHEET:

1. CONSTRUCT OH SIGN. SEE SIGN PLANS.
2. CONSTRUCT REMAINDER OF "SB-1" LINE.
3. CONSTRUCT 405/605 HOV Conn (Br No. 55-1098E) BENT 15. SEE STRUCTURE PLANS.
4. CONSTRUCT PORTION OF SB ROUTE 405 Pvmt.
5. CONSTRUCT PORTION OF SEAL BEACH Blvd IMPROVEMENTS.
6. REMOVE EAST SIDE OF Exist SEAL BEACH OC (Br No. 55-0365) SUPERSTRUCTURE, ABUTMENTS AND OUTSIDE BENTS. SEE STRUCTURE PLANS.
7. REMOVE Exist E22-N605/405 Sep (Br No. 55-0412R) SUPERSTRUCTURE, ABUTMENTS AND MEDIAN BENTS. SEE STRUCTURE PLANS.
8. CONSTRUCT E22-N605/405 Sep (Br No. 55-1097G) BENT 3. SEE STRUCTURE PLANS.
9. CONSTRUCT Temp Pvmt.
10. CONSTRUCT PORTION OF "SB-3" LINE.



TRAFFIC HANDLING NOTES THIS SHEET:

(A) SHIFT TRAFFIC TO WEST SIDE OF SEAL BEACH Blvd. MAINTAIN ONE LANE IN EACH DIRECTION AND 11' MEDIAN. MAINTAIN PEDESTRIAN ACCESS.

(B) MAINTAIN TRAFFIC ON Temp RAMP, "TSB-4" LINE.

(C) CLOSE "C-1" LINE NORTH OF "C-2" LINE DIVERGE.

(D) PROVIDE TWO LANES OF TRAFFIC ON "C-2" LINE.

(E) PROVIDE ONE LANE OF TRAFFIC ON "SB-3" LINE.

(F) MAINTAIN TRAFFIC HANDLING FROM PREVIOUS STAGE WHERE REQUIRED.

(G) CLOSE "SB-5" LINE.

(H) OPEN Temp Conn, "TC-1" LINE, TO TRAFFIC.

(I) OVERNIGHT LANE CLOSURE REQUIRED. USE STANDARD PLAN T10.

STAGE 3A

STAGE CONSTRUCTION INDEX

SCALE: 1" = 300'

SC-7

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 11:26

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USERNAME => trmnguye
DGN FILE => c07163ma007.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	615	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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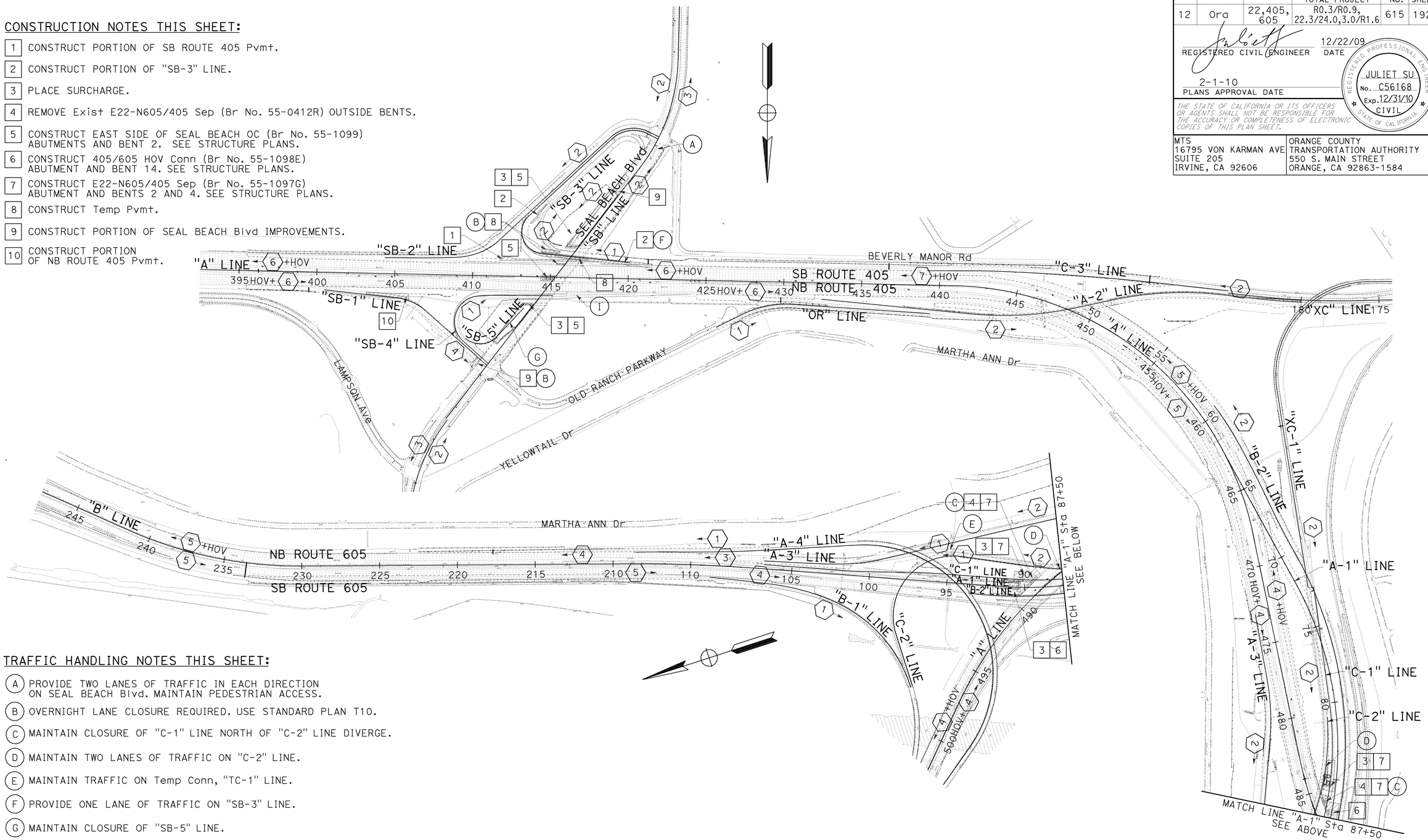
CONSTRUCTION NOTES THIS SHEET:

1. CONSTRUCT PORTION OF SB ROUTE 405 Pvmt.
2. CONSTRUCT PORTION OF "SB-3" LINE.
3. PLACE SURCHARGE.
4. REMOVE Exist E22-N605/405 Sep (Br No. 55-0412R) OUTSIDE BENTS.
5. CONSTRUCT EAST SIDE OF SEAL BEACH OC (Br No. 55-1099) ABUTMENTS AND BENT 2. SEE STRUCTURE PLANS.
6. CONSTRUCT 405/605 HOV Conn (Br No. 55-1098E) ABUTMENT AND BENT 14. SEE STRUCTURE PLANS.
7. CONSTRUCT E22-N605/405 Sep (Br No. 55-1097G) ABUTMENT AND BENTS 2 AND 4. SEE STRUCTURE PLANS.
8. CONSTRUCT Temp Pvmt.
9. CONSTRUCT PORTION OF SEAL BEACH Blvd IMPROVEMENTS.
10. CONSTRUCT PORTION OF NB ROUTE 405 Pvmt.



TRAFFIC HANDLING NOTES THIS SHEET:

- (A) PROVIDE TWO LANES OF TRAFFIC IN EACH DIRECTION ON SEAL BEACH Blvd. MAINTAIN PEDESTRIAN ACCESS.
- (B) OVERNIGHT LANE CLOSURE REQUIRED. USE STANDARD PLAN T10.
- (C) MAINTAIN CLOSURE OF "C-1" LINE NORTH OF "C-2" LINE DIVERGE.
- (D) MAINTAIN TWO LANES OF TRAFFIC ON "C-2" LINE.
- (E) MAINTAIN TRAFFIC ON Temp Conn, "TC-1" LINE.
- (F) PROVIDE ONE LANE OF TRAFFIC ON "SB-3" LINE.
- (G) MAINTAIN CLOSURE OF "SB-5" LINE.
- (H) MAINTAIN TRAFFIC HANDLING FROM PREVIOUS STAGE WHERE REQUIRED.
- (I) MAINTAIN TRAFFIC ON Temp RAMP, "TSB-4" LINE.

STAGE 3B

STAGE CONSTRUCTION INDEX

SCALE: 1" = 300'

SC-8

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CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

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12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	616	1929

REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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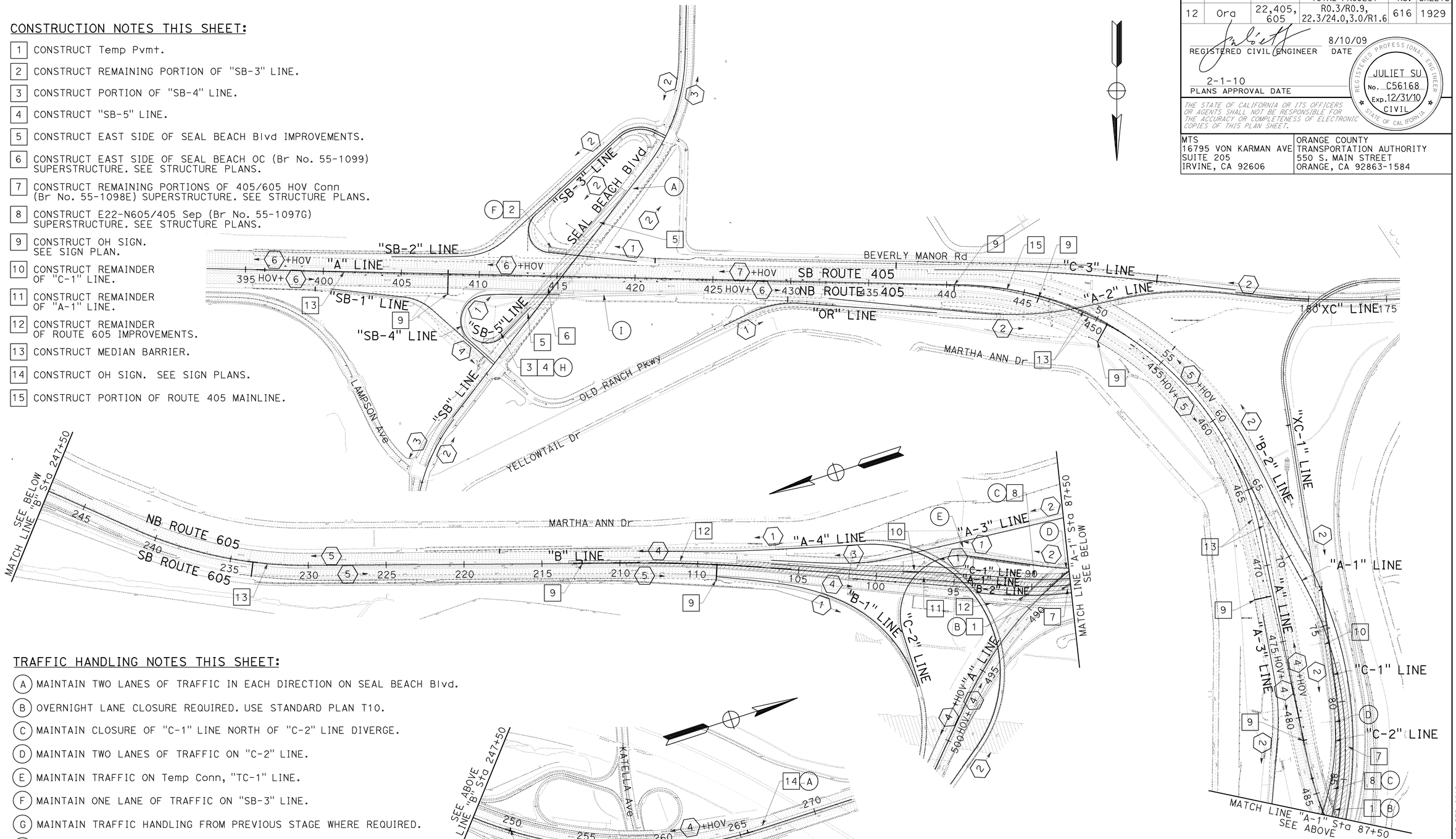
ORANGE, CA 92863-1584

CONSTRUCTION NOTES THIS SHEET:

1. CONSTRUCT Temp Pvmt.
2. CONSTRUCT REMAINING PORTION OF "SB-3" LINE.
3. CONSTRUCT PORTION OF "SB-4" LINE.
4. CONSTRUCT "SB-5" LINE.
5. CONSTRUCT EAST SIDE OF SEAL BEACH Blvd IMPROVEMENTS.
6. CONSTRUCT EAST SIDE OF SEAL BEACH OC (Br No. 55-1099) SUPERSTRUCTURE. SEE STRUCTURE PLANS.
7. CONSTRUCT REMAINING PORTIONS OF 405/605 HOV Conn (Br No. 55-1098E) SUPERSTRUCTURE. SEE STRUCTURE PLANS.
8. CONSTRUCT E22-N605/405 Sep (Br No. 55-1097G) SUPERSTRUCTURE. SEE STRUCTURE PLANS.
9. CONSTRUCT OH SIGN. SEE SIGN PLAN.
10. CONSTRUCT REMAINDER OF "C-1" LINE.
11. CONSTRUCT REMAINDER OF "A-1" LINE.
12. CONSTRUCT REMAINDER OF ROUTE 605 IMPROVEMENTS.
13. CONSTRUCT MEDIAN BARRIER.
14. CONSTRUCT OH SIGN. SEE SIGN PLANS.
15. CONSTRUCT PORTION OF ROUTE 405 MAINLINE.



TRAFFIC HANDLING NOTES THIS SHEET:

- (A) MAINTAIN TWO LANES OF TRAFFIC IN EACH DIRECTION ON SEAL BEACH Blvd.
- (B) OVERNIGHT LANE CLOSURE REQUIRED. USE STANDARD PLAN T10.
- (C) MAINTAIN CLOSURE OF "C-1" LINE NORTH OF "C-2" LINE DIVERGE.
- (D) MAINTAIN TWO LANES OF TRAFFIC ON "C-2" LINE.
- (E) MAINTAIN TRAFFIC ON Temp Conn, "TC-1" LINE.
- (F) MAINTAIN ONE LANE OF TRAFFIC ON "SB-3" LINE.
- (G) MAINTAIN TRAFFIC HANDLING FROM PREVIOUS STAGE WHERE REQUIRED.
- (H) MAINTAIN CLOSURE OF "SB-5" LINE.
- (I) MAINTAIN TRAFFIC ON Temp RAMP, "TSB-4" LINE.

STAGE 3C
STAGE CONSTRUCTION INDEX

SCALE: 1" = 300'

SC-9

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REVISED BY	DATE REVISED
KLA	8/10/09

KELSIE ANDERSON — JULIET SU — CALCULATED-DESIGNED BY — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR — LEONARD SEQUEIRA

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	617	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

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PLANS APPROVAL DATE

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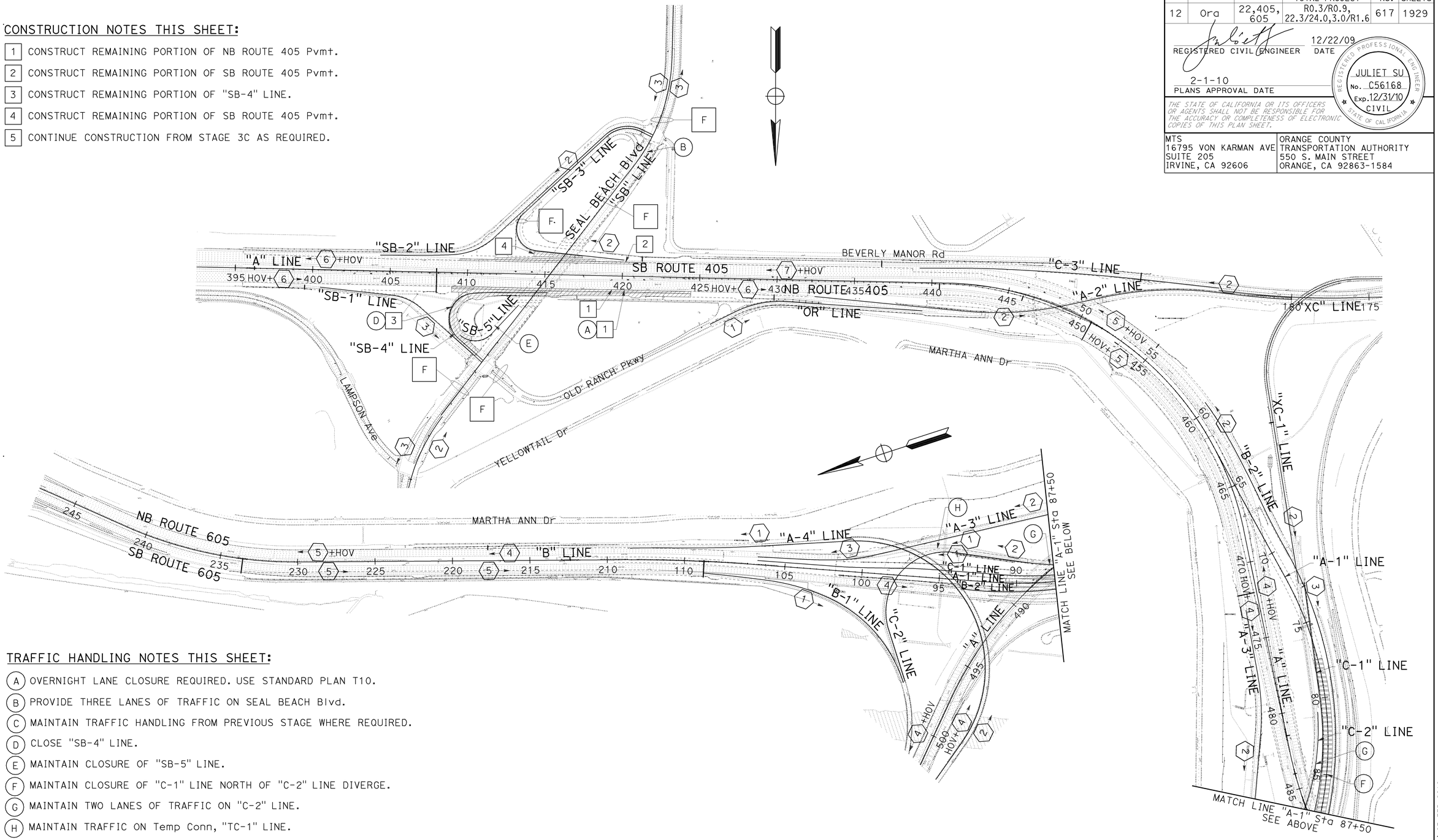
550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION NOTES THIS SHEET:

1. CONSTRUCT REMAINING PORTION OF NB ROUTE 405 Pvmt.
2. CONSTRUCT REMAINING PORTION OF SB ROUTE 405 Pvmt.
3. CONSTRUCT REMAINING PORTION OF "SB-4" LINE.
4. CONSTRUCT REMAINING PORTION OF SB ROUTE 405 Pvmt.
5. CONTINUE CONSTRUCTION FROM STAGE 3C AS REQUIRED.



TRAFFIC HANDLING NOTES THIS SHEET:

- (A) OVERNIGHT LANE CLOSURE REQUIRED. USE STANDARD PLAN T10.
- (B) PROVIDE THREE LANES OF TRAFFIC ON SEAL BEACH Blvd.
- (C) MAINTAIN TRAFFIC HANDLING FROM PREVIOUS STAGE WHERE REQUIRED.
- (D) CLOSE "SB-4" LINE.
- (E) MAINTAIN CLOSURE OF "SB-5" LINE.
- (F) MAINTAIN CLOSURE OF "C-1" LINE NORTH OF "C-2" LINE DIVERGE.
- (G) MAINTAIN TWO LANES OF TRAFFIC ON "C-2" LINE.
- (H) MAINTAIN TRAFFIC ON Temp Conn, "TC-1" LINE.

STAGE 3D

STAGE CONSTRUCTION INDEX

SCALE: 1" = 300'

SC-10

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

KELSIE ANDERSON — JULIET SU — CALCULATED-DESIGNED BY — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR — LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	618	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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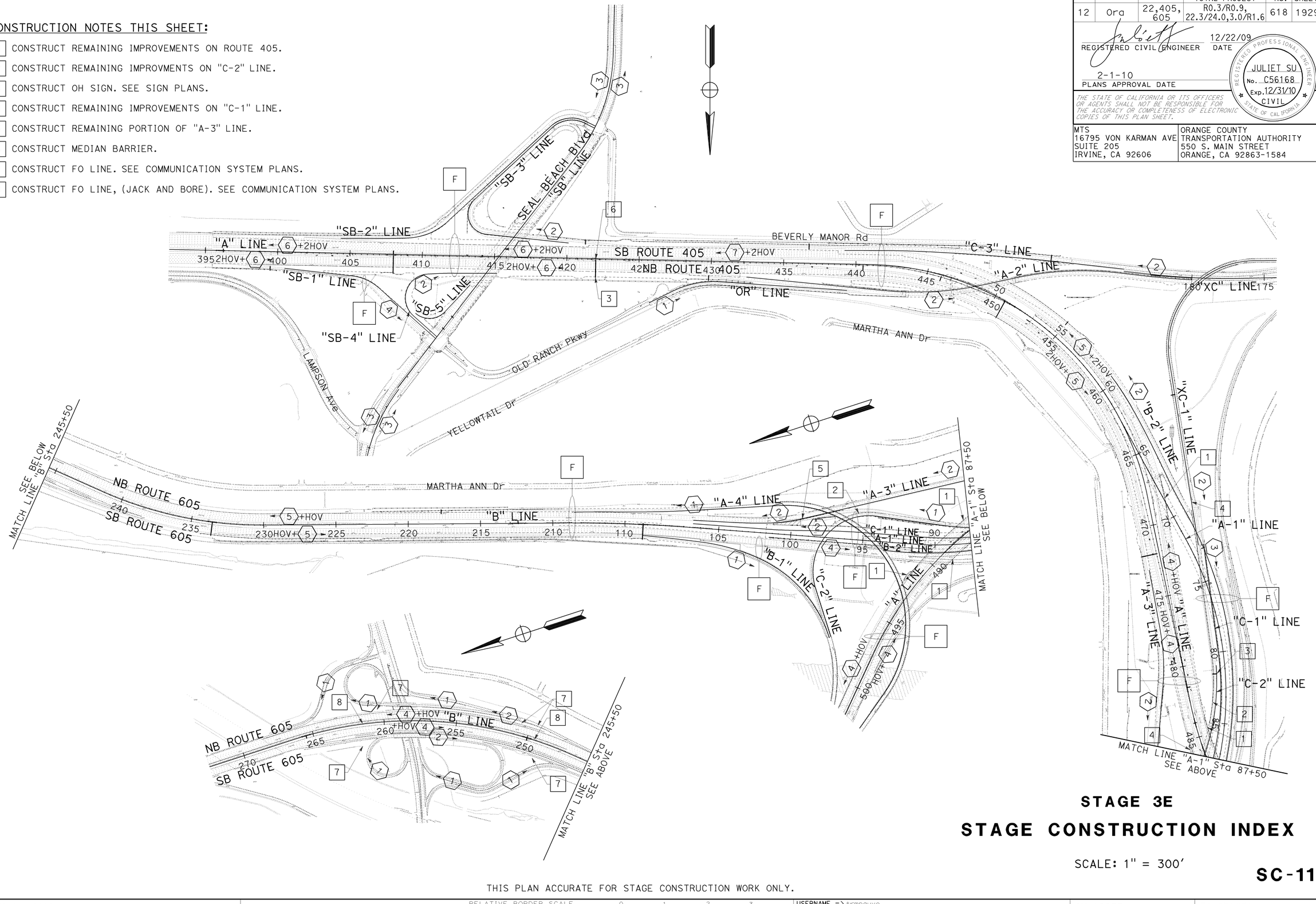
ORANGE, CA 92863-1584

CONSTRUCTION NOTES THIS SHEET:

1. CONSTRUCT REMAINING IMPROVEMENTS ON ROUTE 405.
2. CONSTRUCT REMAINING IMPROVMENTS ON "C-2" LINE.
3. CONSTRUCT OH SIGN. SEE SIGN PLANS.
4. CONSTRUCT REMAINING IMPROVEMENTS ON "C-1" LINE.
5. CONSTRUCT REMAINING PORTION OF "A-3" LINE.
6. CONSTRUCT MEDIAN BARRIER.
7. CONSTRUCT FO LINE. SEE COMMUNICATION SYSTEM PLANS.
8. CONSTRUCT FO LINE, (JACK AND BORE). SEE COMMUNICATION SYSTEM PLANS.



STAGE 3E

STAGE CONSTRUCTION INDEX

SCALE: 1" = 300'

SC-11

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
KELSIE ANDERSON	JULIET SU	KLA	12/22/09

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GENERAL NOTES (ALL STAGES):

1. ALL CONFLICTING PAVEMENT DELINEATION, TEMPORARY RAILING (TYPE K), AND TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED PRIOR TO STARTING WORK ON EACH STAGE. ALL CONFLICTING SIGNS SHALL BE COVERED OR REMOVED.
2. ALL STAGE CONSTRUCTION STRIPING AND PAVEMENT MARKINGS SHALL BE TEMPORARY TRAFFIC STRIPE (PAINT) OR TEMPORARY PAVEMENT MARKING (PAINT) UNLESS OTHERWISE NOTED. FINAL STRIPING IDENTIFIED ON STAGE CONSTRUCTION PLANS SHALL BE PERMANENT STRIPING AS SHOWN ON THE PAVEMENT DELINEATION PLANS. EXACT LOCATION OF PAVEMENT MARKINGS SHALL BE DETERMINED BY THE ENGINEER.
3. PLACE ARROWS 8′ BEFORE LIMIT LINE OR CROSSWALK.
4. ALL CROSSWALKS SHALL HAVE A 10′ INSIDE WIDTH.
5. ALL CHEVRON AND DIAGONAL MARKINGS SHALL BE PLACED AT A 45° ANGLE TO THE EDGE OF TRAVEL WAY.
6. A MINIMUM CLEARANCE OF 2′ SHALL BE PROVIDED BETWEEN EXISTING OR TEMPORARY EDGE OF TRAVEL WAY AND TEMPORARY RAILING (TYPE K) UNLESS OTHERWISE NOTED.
7. THE DESCRIPTIVE TERM "JOIN" WHEN USED ON THE PLANS REFERS TO THE JOINING OF STAGE CONSTRUCTION STRIPING WITH EXISTING, FINAL OR PREVIOUS STAGE CONSTRUCTION DELINEATION UNLESS OTHERWISE NOTED.
8. LOCATIONS FOR CONSTRUCTION AREA SIGNS ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER. FOR ADDITIONAL CONSTRUCTION AREA SIGNS AND DETAILS, SEE CONSTRUCTION AREA SIGN PLANS AND TRAFFIC HANDLING PLAN DETOUR LAYOUTS.
9. ALL APPROACH TAPERS FOR TEMPORARY RAILING (TYPE K) SHALL BE AT A 20:1 OR FLATTER TRANSITION AND SHALL HAVE APPROACH CRASH CUSHIONS AS SHOWN ON THE PLANS. LAST TEMPORARY RAILING (TYPE K) SECTION SHALL BE PINNED OR SECURED AS DETERMINED BY THE ENGINEER.
10. LANE WIDTHS SHALL BE 11′ MINIMUM UNLESS OTHERWISE NOTED. INSIDE/OUTSIDE SHOULDER DIMENSIONS ARE MEASURED FROM THE FLOWLINE OF BARRIER OR CURB. OFFSETS AND DIMENSIONS TO TEMPORARY RAILING (TYPE K) ARE MEASURED TO THE INSIDE FLOWLINE OF BARRIER ADJACENT TO THE TRAVEL WAY.
11. Temp Pvmt SHOWN TO BE CONSTRUCTED AT NIGHT USING OVERNIGHT LANE CLOSURES MUST BE COMPLETED PRIOR TO PLACING TEMPORARY STRIPING IN THE AREA FOR THAT STAGE. Temp Pvmt MAY REQUIRE MULTIPLE NIGHT CLOSURES TO CONSTRUCT.
12. EXISTING DRAINAGE SYSTEM SHALL REMAIN IN PLACE UNTIL REPLACEMENT, TEMPORARY, OR FINAL DRAINAGE SYSTEM IS IN PLACE AND OPERATIONAL.
13. TEMPORARY PIPES WITH LESS THAN 24" COVER SHALL BE BACKFILLED WITH TEMPORARY CONCRETE.
14. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL EXISTING JOIN ELEVATIONS AND PAVEMENT/GRADE ELEVATIONS FOR PROPER LOCATION OF INLETS.
15. WHERE TEMPORARY RAILING (TYPE K) PROTECTION IS NOT SHOWN, CONTRACTOR SHALL PLACE TEMPORARY WOODEN POLES A MINIMUM OF 30′ FROM THE ACTIVE EDGE OF TRAVELED WAY ON FREEWAY MAINLINES AND RAMPS.
16. FOR MODIFIED DETAILS AND DETAILS NOT SHOWN IN STANDARD PLANS, SEE SCD SHEETS.
17. THE PORTABLE MESSAGE SIGNS ON THE SC SHEETS SHOULD READ: 1ST FRAME → 2ND FRAME → 3RD FRAME

LEGEND FOR STAGE CONSTRUCTION TYPICALS (ALL STAGES)

- CONSTRUCTION THIS STAGE
- TEMPORARY PAVEMENT CONSTRUCTION THIS STAGE
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- REMOVAL THIS STAGE
- CONSTRUCTION CONTINUED FROM PREVIOUS STAGE
- CHANNELIZER (SURFACE MOUNTED)
- CHANNELIZER (SURFACE MOUNTED) TO REMAIN IN PLACE FROM PREVIOUS STAGE
- TEMPORARY RAILING (TYPE K)
- TEMPORARY RAILING (TYPE K) TO REMAIN IN PLACE FROM PREVIOUS STAGE
- CONCRETE BARRIER (TYPE 60)
- Exist CONCRETE BARRIER (TYPE 60)
- Temp FENCE
- METAL BEAM GUARD RAIL

LEGEND FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING PLANS (ALL STAGES)

- CONSTRUCTION THIS STAGE
- CONSTRUCTION CONTINUED FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT CONSTRUCTION THIS STAGE
- TEMPORARY PAVEMENT CONSTRUCTION CONTINUED FROM PREVIOUS STAGE
- REMOVAL THIS STAGE
- COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- HIGH OCCUPANCY VEHICLE LANE
- TOE OF SURCHARGE SLOPE
- LIMIT OF FULL HEIGHT SURCHARGE
- TEMPORARY RAILING (TYPE K)
- TEMPORARY RAILING (TYPE K) TO REMAIN IN PLACE FROM PREVIOUS STAGE.
- [T] TEMPORARY TRAFFIC SCREEN (LIMITS PER PLAN)
- XX PAVEMENT DELINEATION DETAIL NUMBER
- CW 12" WHITE LINE CROSSWALK
- LL 12" WHITE LINE LIMIT LINE
- C 12" WHITE LINE CHEVRON (10′ OC SPACING)
- D 12" WHITE LINE DIAGONAL (10′ OC SPACING)
- H-5 HIGH OCCUPANCY VEHICLE PAVEMENT MARKING (SEE SCD-1)
- RC REMOVE CROSSWALK
- TEMPORARY CRASH CUSHION MODULES; ARRAY PER PLAN
- TEMPORARY CRASH CUSHION MODULES TO REMAIN IN PLACE FROM PREVIOUS STAGE
- CONSTRUCTION SIGN (PORTABLE SUPPORT)
- CONSTRUCTION SIGN (PORTABLE SUPPORT) TO REMAIN IN PLACE FROM PREVIOUS STAGE
- CONSTRUCTION SIGN (ONE POST)
- CONSTRUCTION SIGN (ONE POST) TO REMAIN IN PLACE FROM PREVIOUS STAGE
- CONSTRUCTION SIGN (TWO POST)
- CONSTRUCTION SIGN (TWO POST) FROM PREVIOUS STAGE
- CHANGE OF PAVEMENT DELINEATION DETAIL
- ANGLE POINT
- CHANNELIZER (SURFACE MOUNTED)
- CHANNELIZER (SURFACE MOUNTED) TO REMAIN IN PLACE FROM PREVIOUS STAGE
- CHANNELIZER (EMBEDDED)
- 0 CHANNELIZER (EMBEDDED) TO REMAIN IN PLACE FROM PREVIOUS STAGE
- TYPE II BARRICADE (WITH SIGN AS NOTED ON PLANS)
- TYPE III BARRICADE (WITH SIGN AS NOTED ON PLANS)
- P PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- X CONSTRUCTION NOTE

ABBREVIATIONS:

OC	ON CENTER
DS	DRAINAGE SYSTEM
BMP	BEST MANAGEMENT PRACTICE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	619	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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LEGEND FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING PLANS (ALL STAGES) (Continued)

- E EXISTING TRAFFIC HANDLING TO REMAIN
- F FINAL PAVEMENT DELINEATION. SEE STRIPING PLANS.
- CS CONSTRUCTION AREA SIGN AND/OR TEMPORARY OVERLAY PANEL
- XXX CURVE NUMBER
- RELOCATE CONSTRUCTION AREA SIGN
- (XX′) Exist LANE DIMENSION
- TF Temp FENCE
- TYPE I ARROW PAVEMENT MARKING (10′ HEIGHT)
- TYPE II ARROW PAVEMENT MARKING
- TYPE III ARROW PAVEMENT MARKING
- TYPE III ARROW (B) PAVEMENT MARKING
- TYPE IV ARROW PAVEMENT MARKING
- TYPE VI ARROW PAVEMENT MARKING
- TYPE VIII ARROW PAVEMENT MARKING
- YIELD LINE PAVEMENT MARKING
- C "CAR" PAVEMENT MARKING
- P "POOL" PAVEMENT MARKING
- O "ONLY" PAVEMENT MARKING
- "DIAMOND SYMBOL" PAVEMENT MARKING

DRAINAGE NOTES FOR TEMPORARY WORK:

1. CONSTRUCT TEMPORARY DRAINAGE ELEMENT AS NOTED.
2. CONSTRUCT TEMPORARY CULVERT.
3. CONSTRUCT TEMPORARY JS OR TEMPORARY Conc COLLAR AS NOTED, SEE DRAINAGE DETAILS.

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SC-12

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

KELSIE ANDERSON — CALCULATED-DESIGNED BY
JULIET SU — CHECKED BY
LEONARD SEQUEIRA — CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 11:24
08-10-09

BORDER LAST REVISED 8/1/2008 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trstrk
DGN FILE => c07163ma012.dgn

CU 12235 — EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	620	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

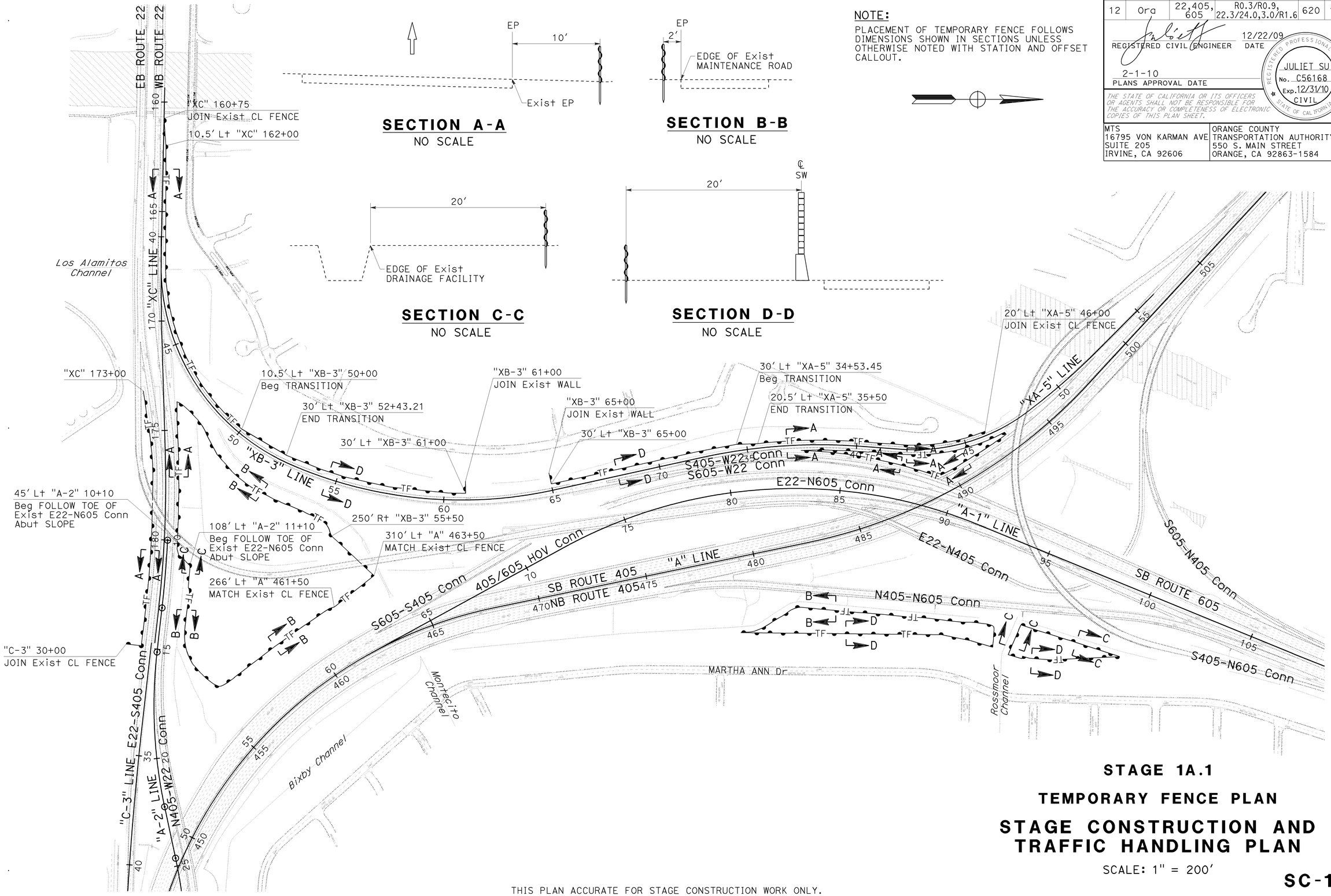
PLACEMENT OF TEMPORARY FENCE FOLLOWS DIMENSIONS SHOWN IN SECTIONS UNLESS OTHERWISE NOTED WITH STATION AND OFFSET CALLOUT.

SECTION A-A
NO SCALE

SECTION B-B
NO SCALE

SECTION C-C
NO SCALE

SECTION D-D
NO SCALE



STAGE 1A.1

TEMPORARY FENCE PLAN

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 200′

SC-13

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Gtans®
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09
LAST REVISION — DATE PLOTTED => 03-FEB-2010 — TIME PLOTTED => 11:20 — 08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trstrk DGN FILE => c07163ma013.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	621	1929

REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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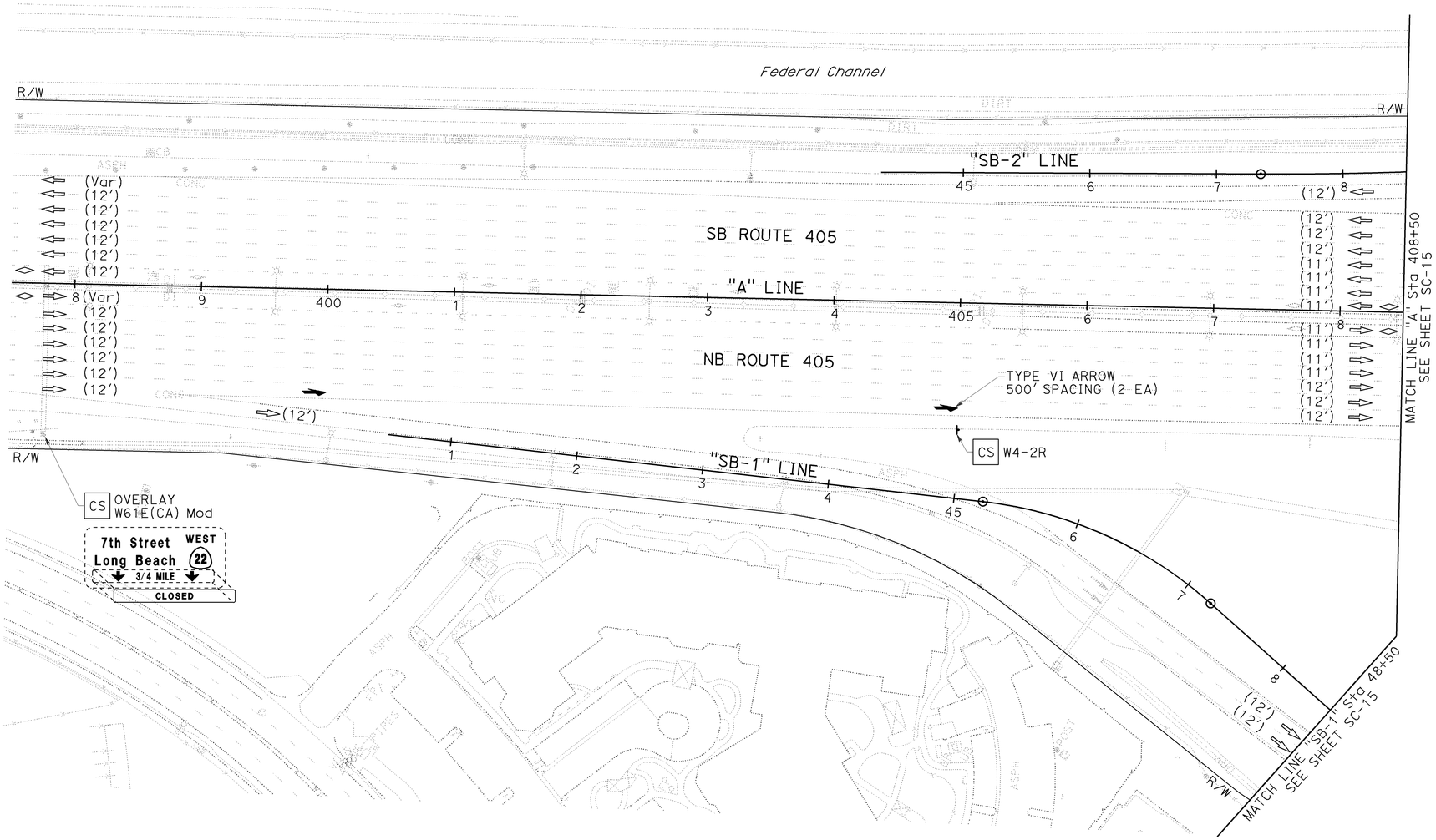
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



STAGE 1A.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-14

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 8/10/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 11:20

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trstrk
DGN FILE => c07163ma014.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	622	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

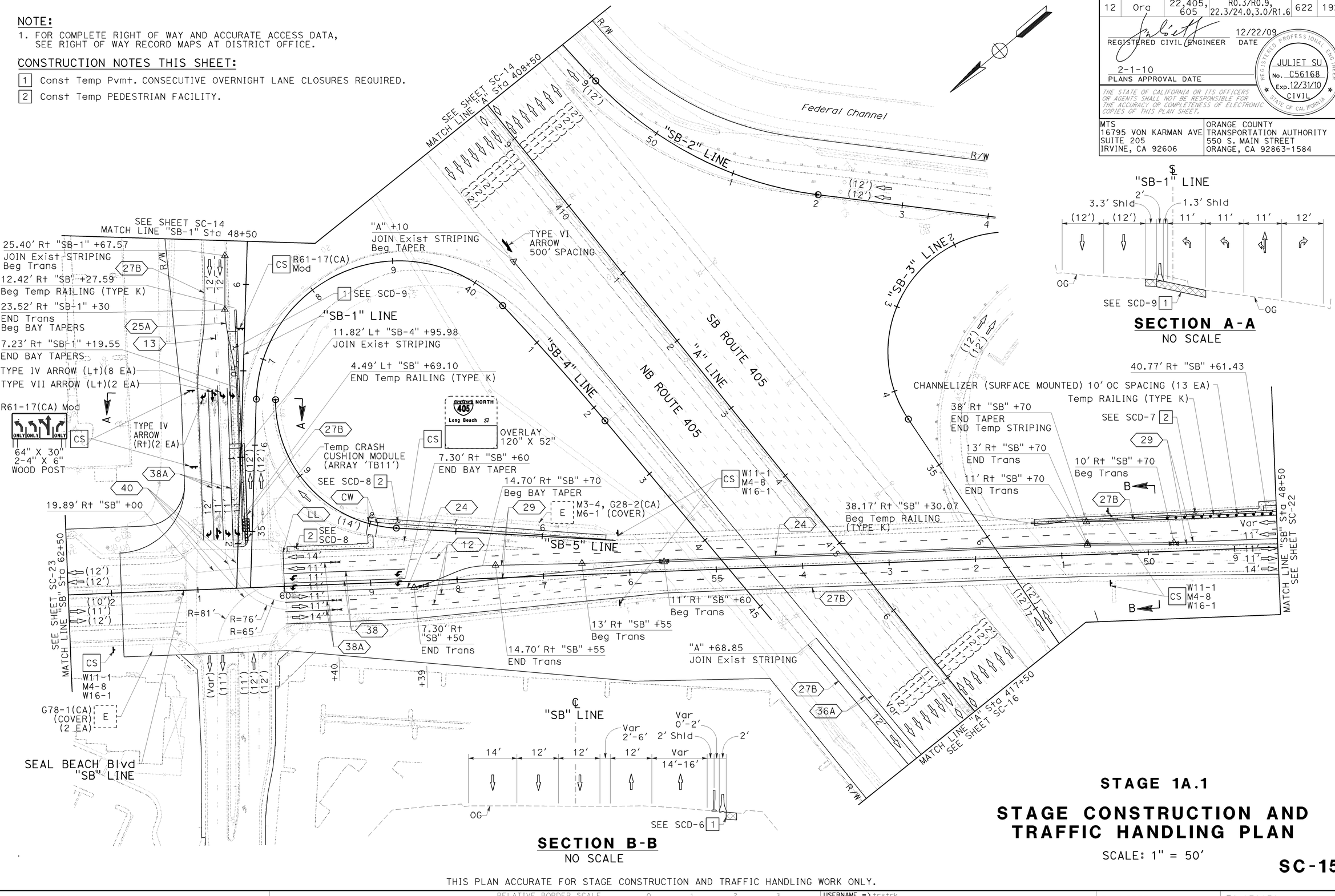
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

1 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.

2 Const Temp PEDESTRIAN FACILITY.



STAGE 1A.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-15

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU

REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 08-10-09 11:21

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trstrk
DGN FILE => c07163ma015.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	623	1929

REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
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.

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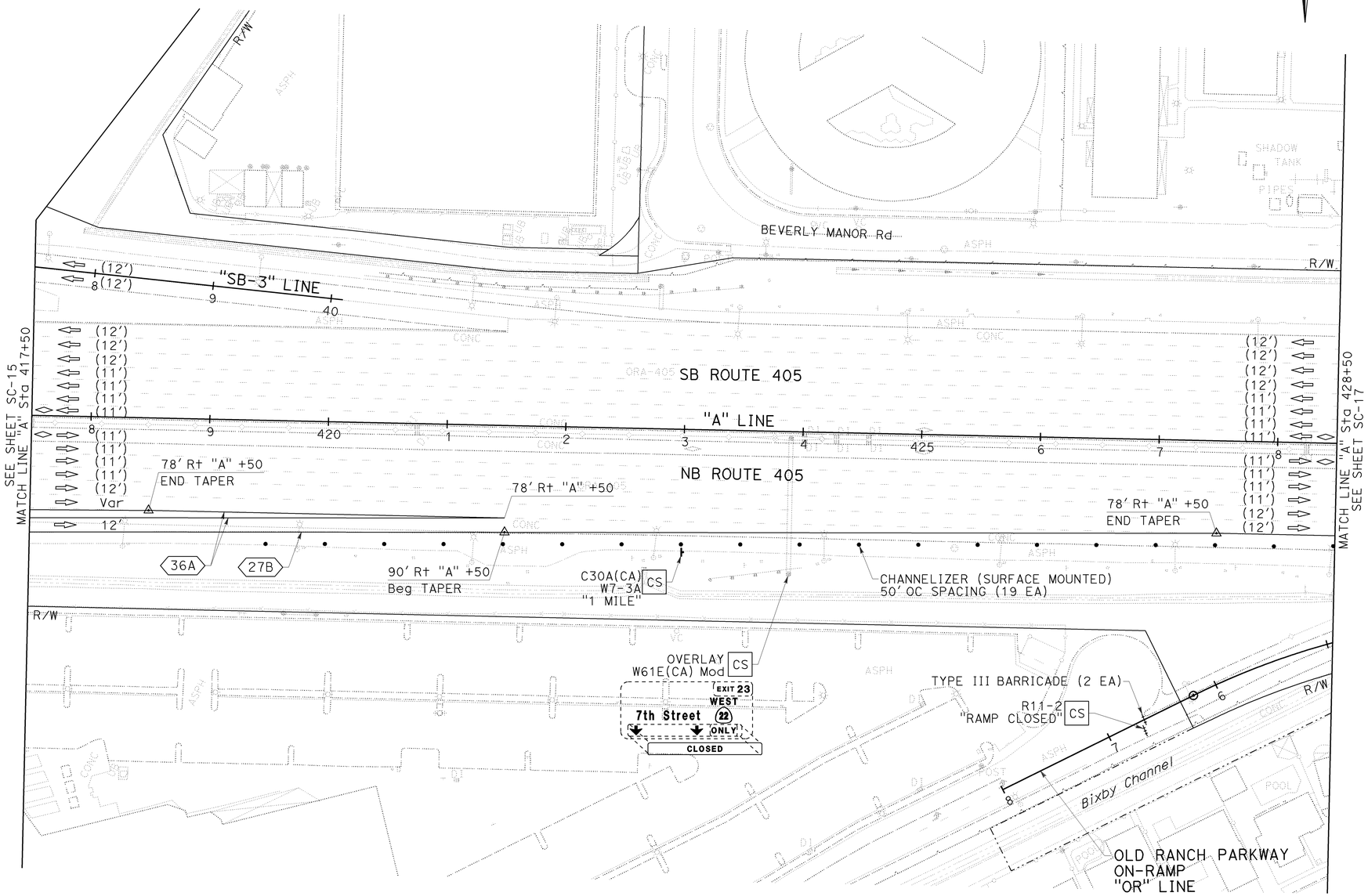
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



STAGE 1A.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-16

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY	KELSIE ANDERSON	
CHECKED BY	JULIET SU	
CONSULTANT FUNCTIONAL SUPERVISOR	LEONARD SEQUEIRA	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans	
REVISED BY	KLA	8/10/09
DATE REVISED		

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 11:21

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trstrk DGN FILE => c07163ma016.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	624	1929

REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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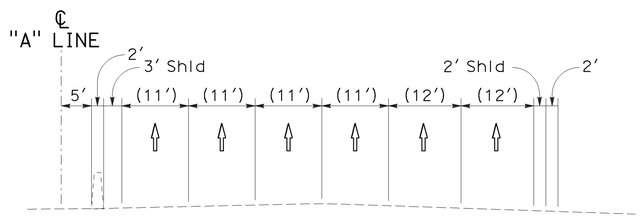
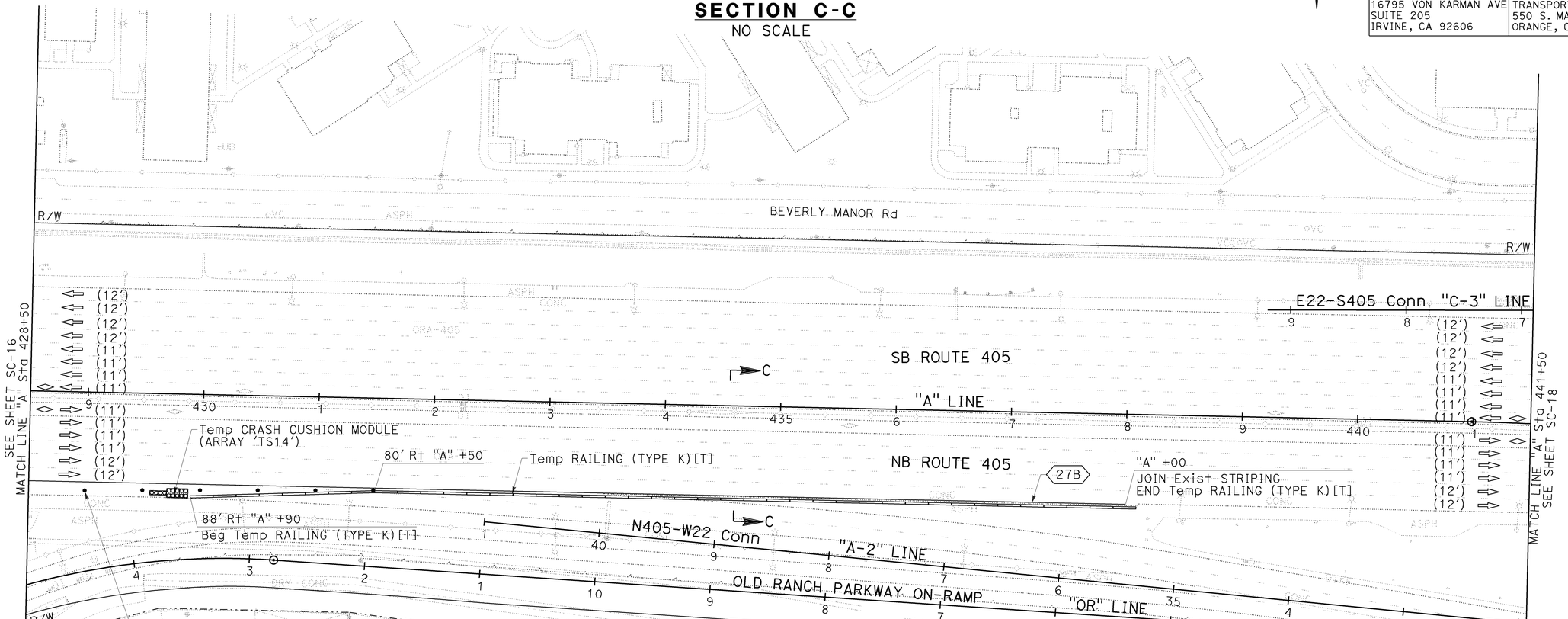
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



SECTION C-C
NO SCALE



STAGE 1A.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-17

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY	KELSIE ANDERSON	
CHECKED BY	JULIET SU	
CONSULTANT FUNCTIONAL SUPERVISOR	LEONARD SEQUEIRA	
REVISED BY	KLA	
DATE REVISED	8/10/09	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 11:21

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trstrk | DGN FILE => c07163ma017.dgn | CU 12235 | EA 071631

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	625	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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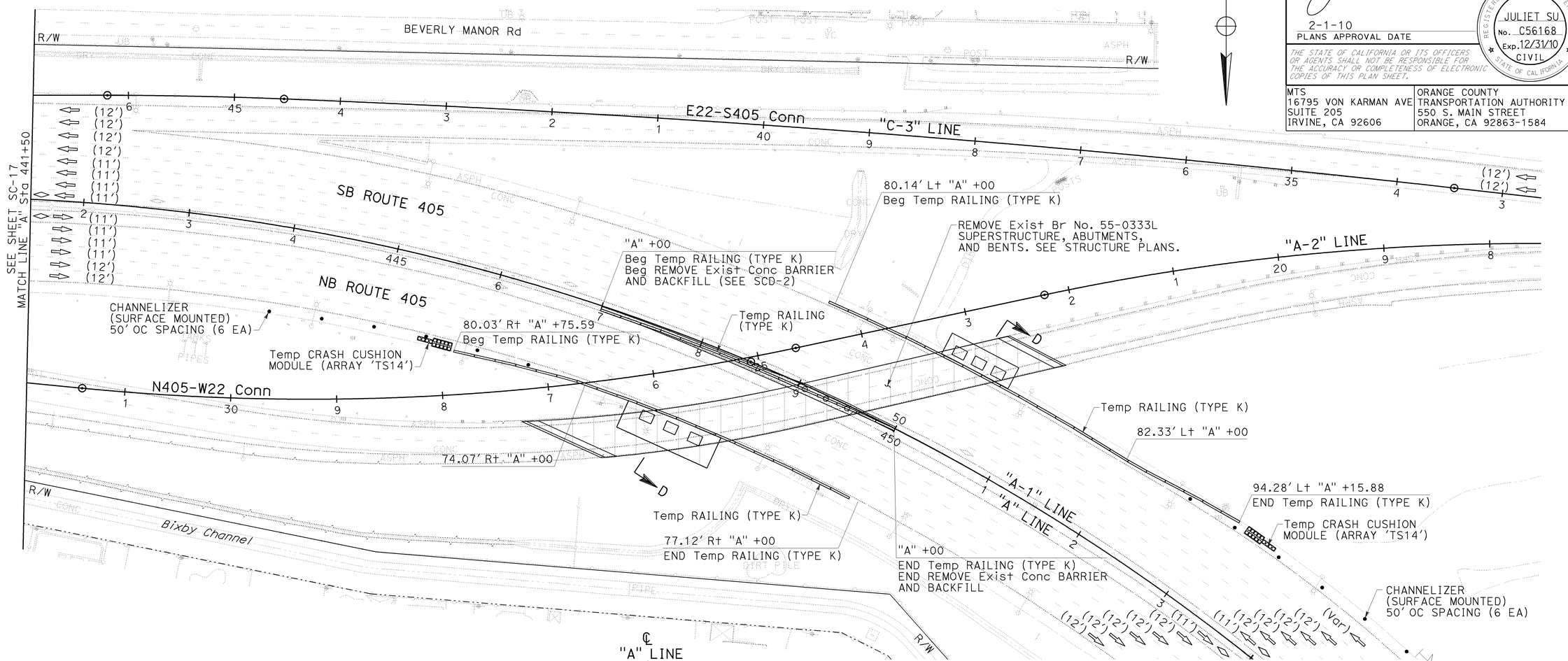
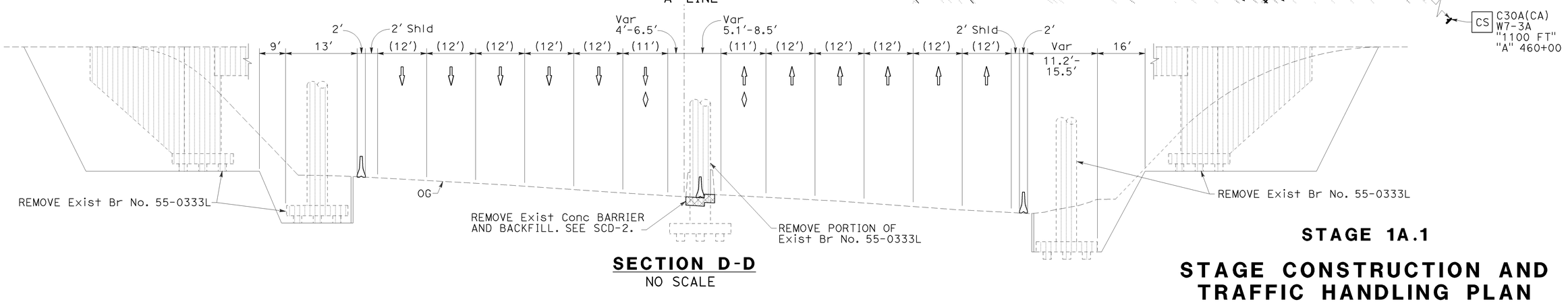
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584





SECTION D-D
NO SCALE

STAGE 1A.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-18

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON

CHECKED BY: JULIET SU

REVISED BY: KLA — DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 11:21

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trstrk
DGN FILE => c07163ma018.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	626	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

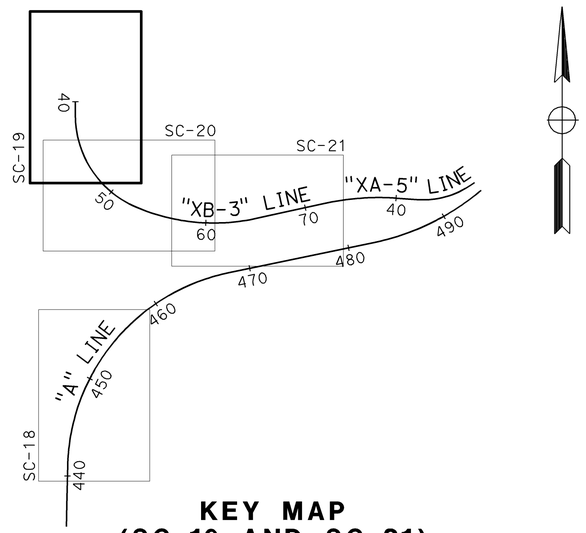
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

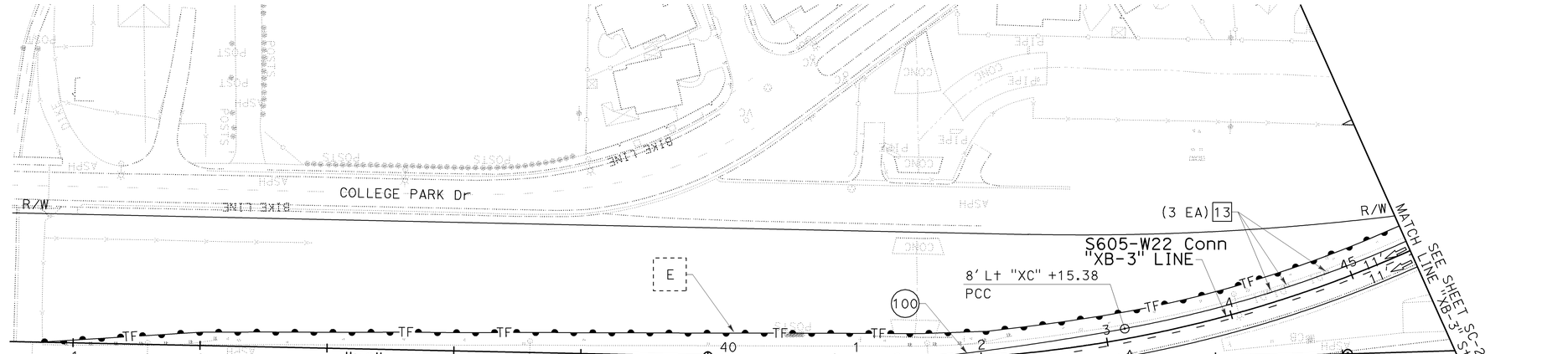
CONSTRUCTION NOTE THIS SHEET:

3 REMOVE AND REUSE Exist GRATE AND PLACE BICYCLE PROOF GRATE. TACK WELD BICYCLE PROOF GRATE. WHEN NO LONGER REQUIRED FOR TEMPORARY TRAFFIC, SALVAGE BICYCLE PROOF GRATE AND REUSE Exist GRATE AT SAME LOCATION. DO NOT TACK WELD REUSED GRATE.

CURVE DATA				
No.	R	Δ	T	L
(100)	2100.00′	11°41′05"	214.88′	428.27′



KEY MAP
(SC-19 AND SC-21)



STAGE 1A.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-19

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY: KLA — 12/22/09
CHECKED BY: KELSIE ANDERSON — JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 03-FEB-2010
08-10-09 | TIME PLOTTED => 11:21

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trstrk | DGN FILE => c07163ma019.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	627	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
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.

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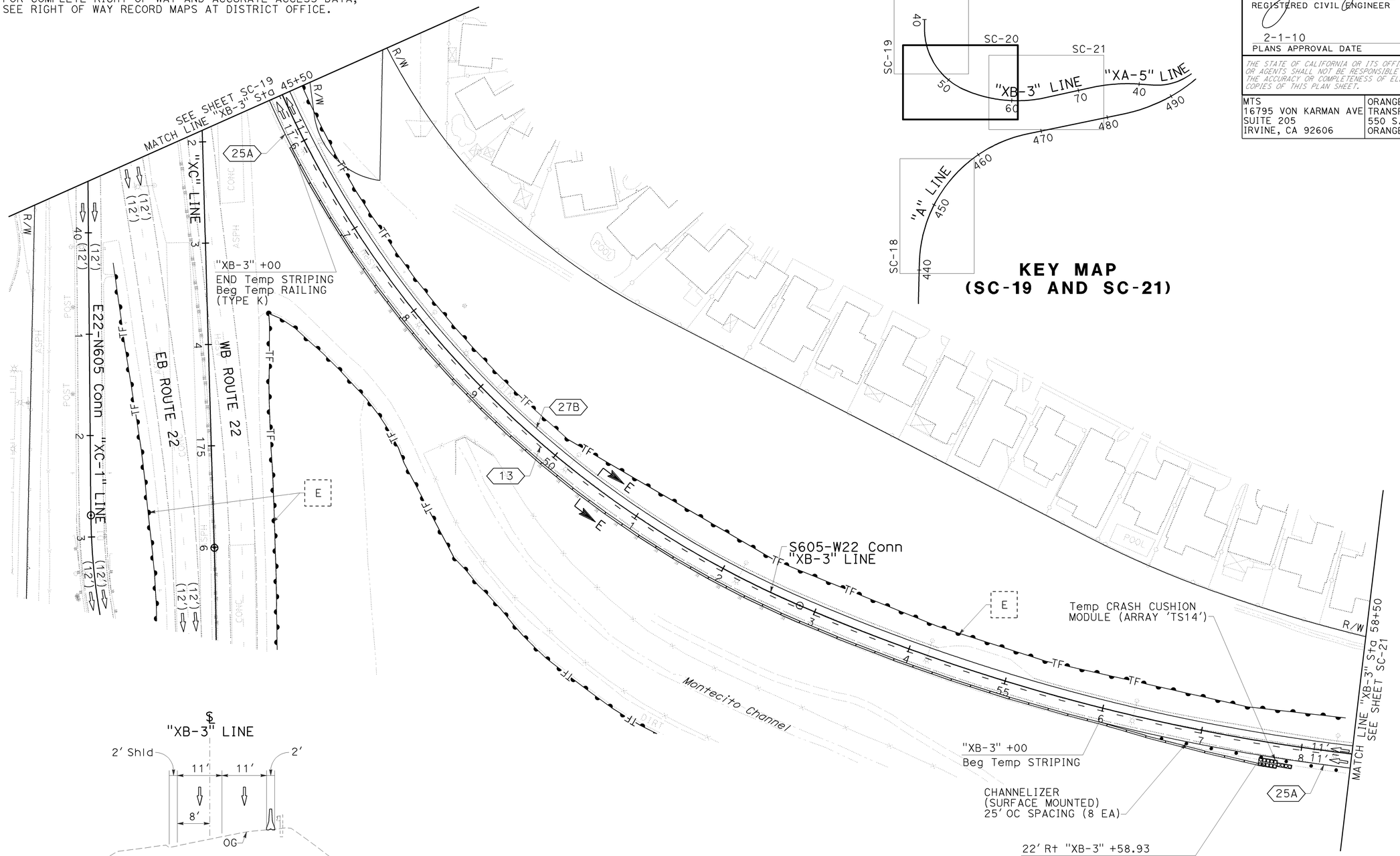
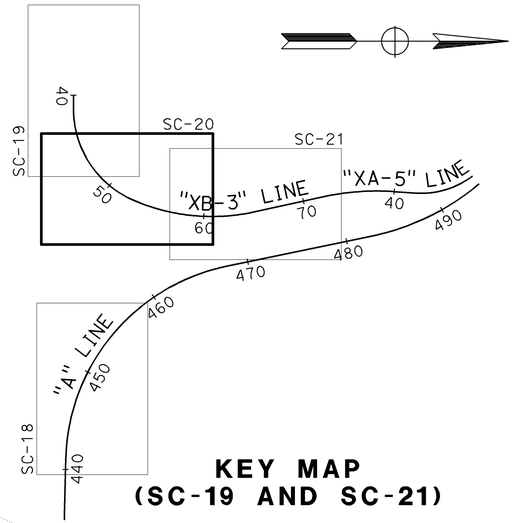
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

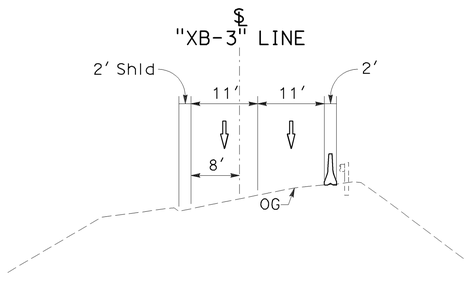
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.





KEY MAP
(SC-19 AND SC-21)



SECTION E-E
NO SCALE

STAGE 1A.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-20

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

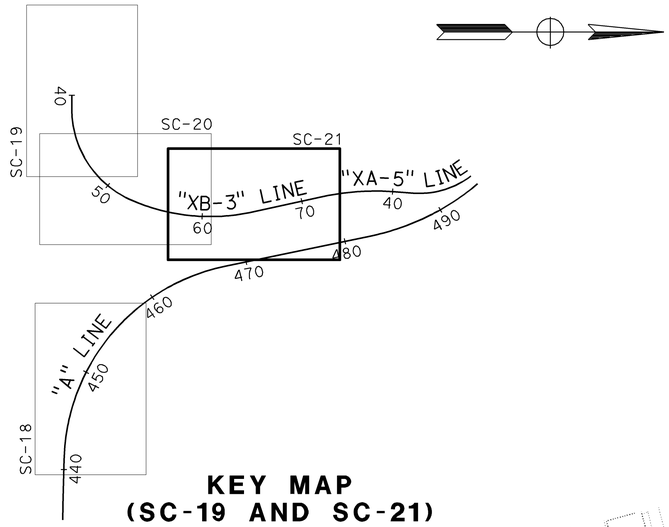
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	REVISED BY	DATE REVISED
Caltrans	LEONARD SEQUEIRA	KLA	12/22/09
CALCULATED-DESIGNED BY	KELSIE ANDERSON		
CHECKED BY	JULIET SU		

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 TIME PLOTTED => 11:22

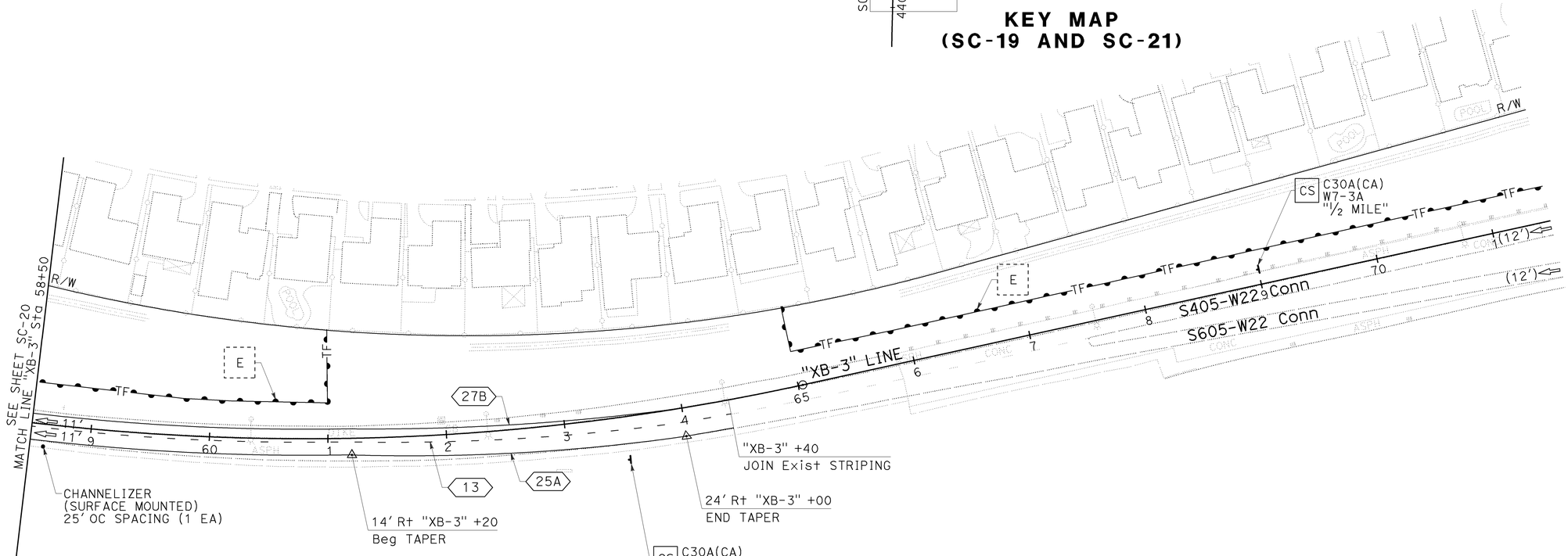
BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trstrk DGN FILE => c07163ma020.dgn | CU 12235 | EA 071631

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



KEY MAP
(SC-19 AND SC-21)



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	628	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

STAGE 1A.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-21

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
KELSIE ANDERSON	JULIET SU	KLA	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 11:22

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trstrk | DGN FILE => c07163ma021.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	629	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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SUITE 205
IRVINE, CA 92606

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TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

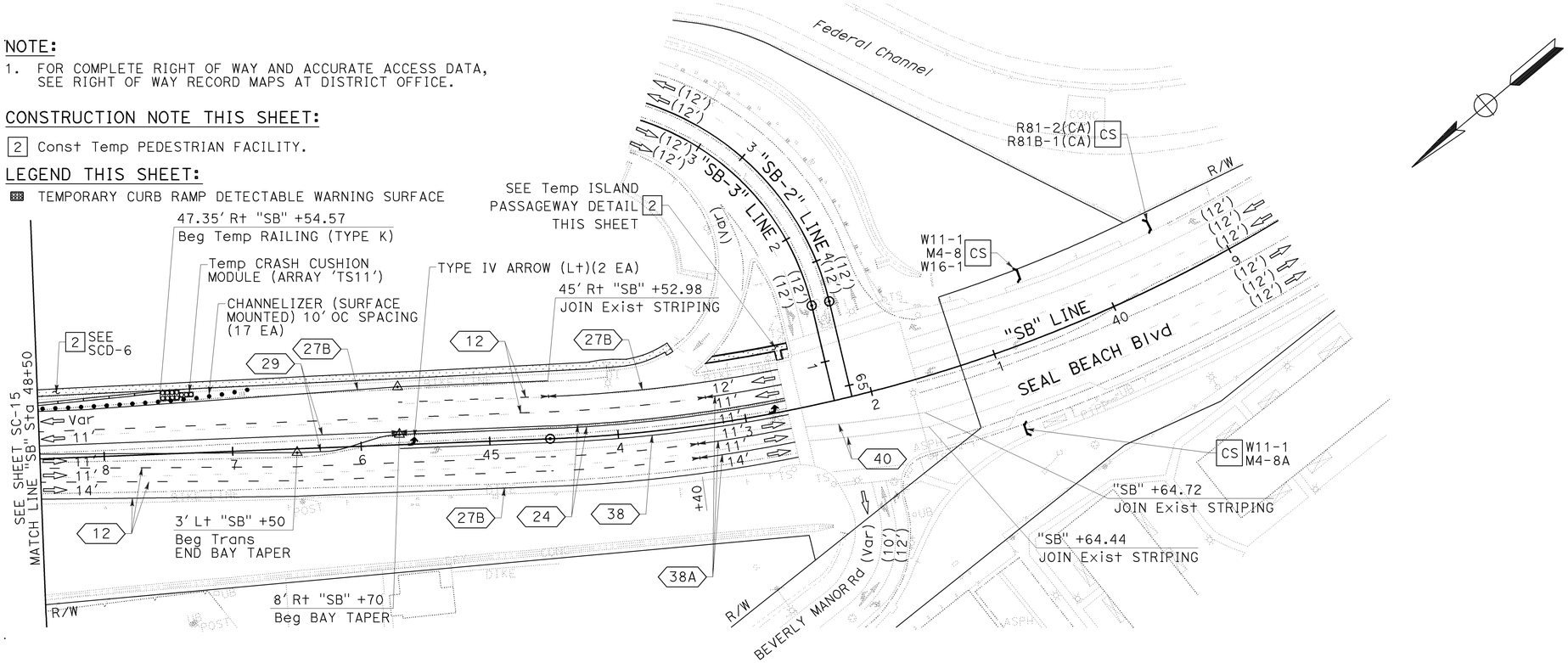
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

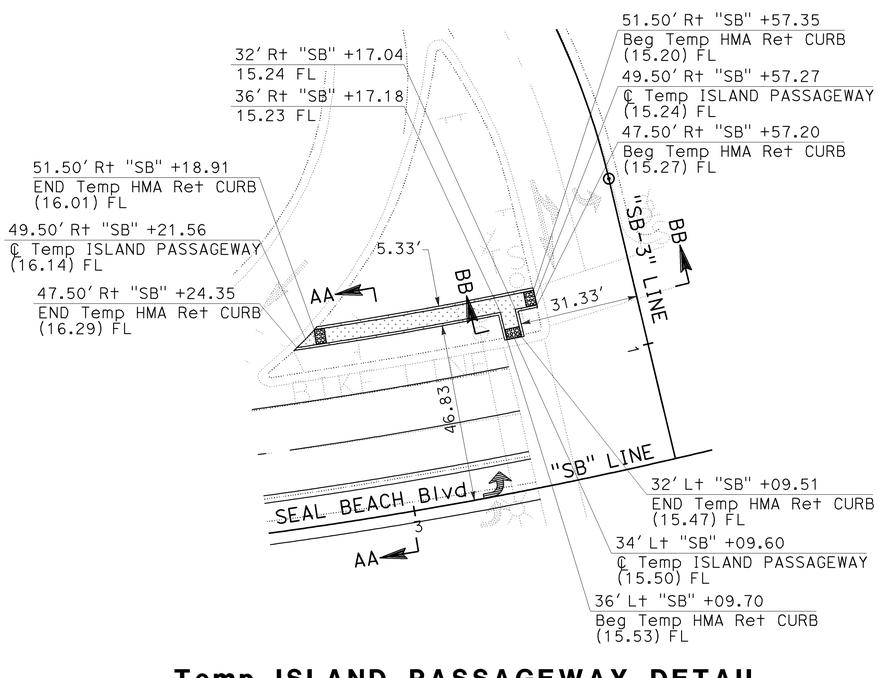
CONSTRUCTION NOTE THIS SHEET:

2 Const Temp PEDESTRIAN FACILITY.

LEGEND THIS SHEET:

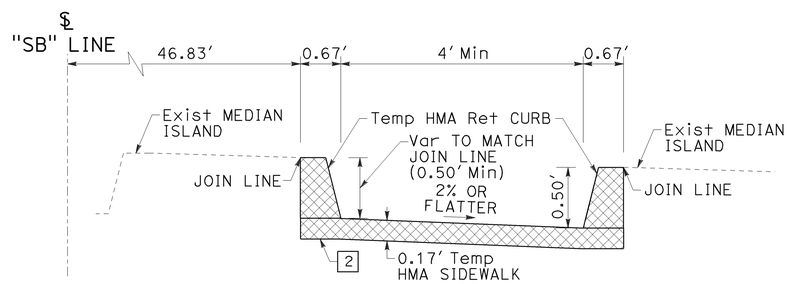
TEMPORARY CURB RAMP DETECTABLE WARNING SURFACE





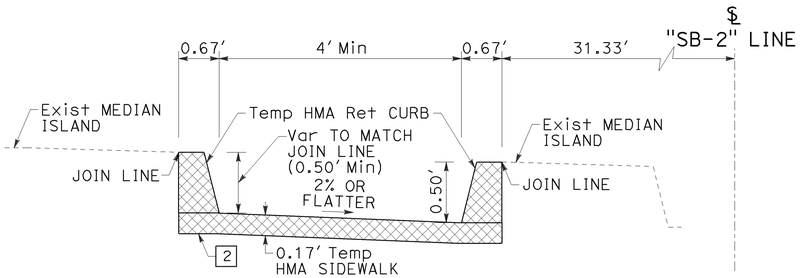
Temp ISLAND PASSAGEWAY DETAIL

SCALE: 1" = 20'



SECTION AA-AA

NO SCALE

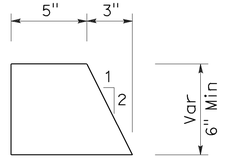


SECTION BB-BB

NO SCALE

LEGEND THIS SHEET:

TEMPORARY CURB RAMP DETECTABLE WARNING SURFACE



Temp HMA Ret CURB

NO SCALE

STAGE 1A.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

SC-22

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 11:22
08-10-09

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trstrk
DGN FILE => c07163ma022.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	630	1929

REGISTERED CIVIL ENGINEER 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JULIET SU No. C56168 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

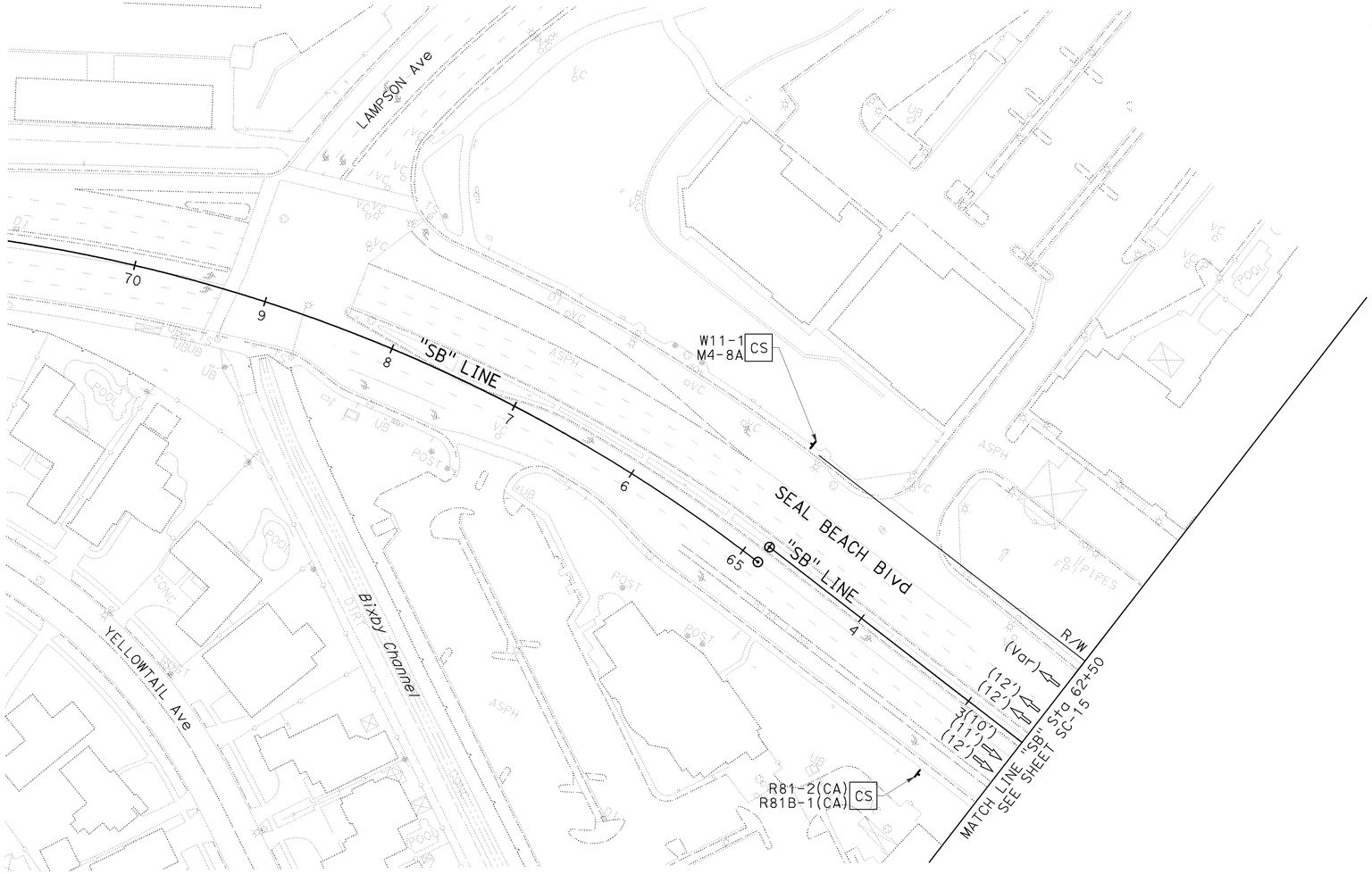
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



STAGE 1A.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-23

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 8/10/09

LAST REVISION 08-10-09
DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 11:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	631	1929

REGISTERED CIVIL ENGINEER 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JULIET SU No. C56168 Exp. 12/31/10 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.

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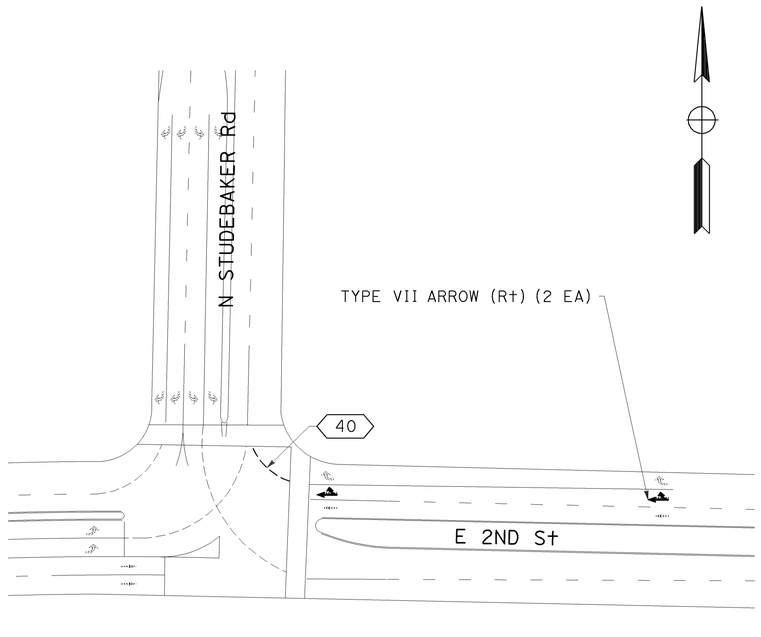
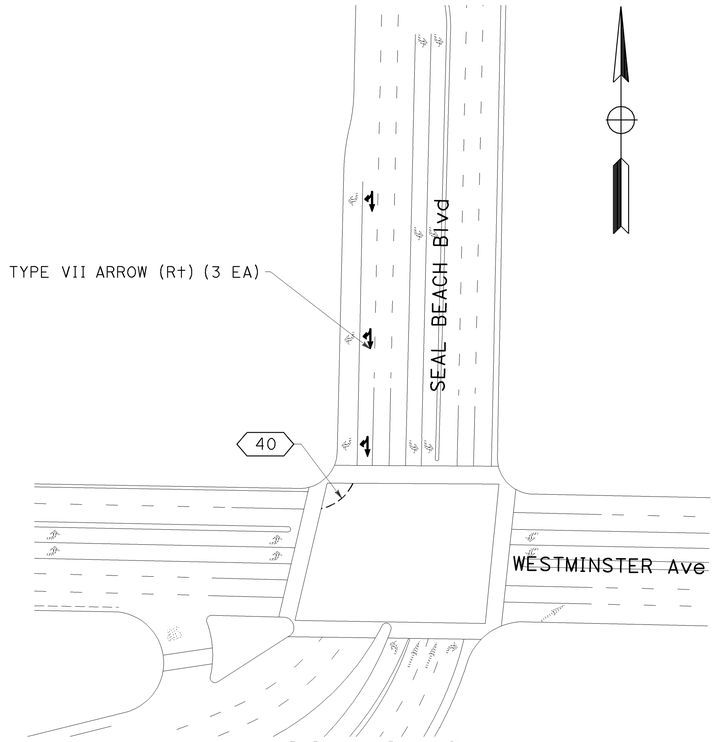
SUITE 205
IRVINE, CA 92606

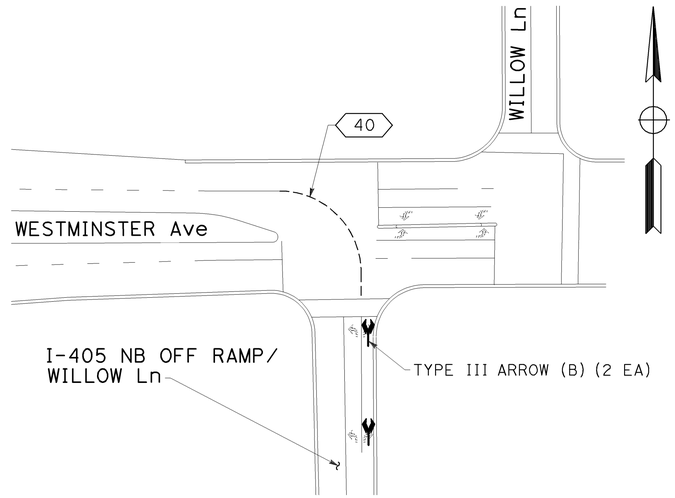
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584



LOCATION 1



LOCATION 2



LOCATION 3

STAGE 1A.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

NO SCALE

SC-24

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION 08-10-09
DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	632	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
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.

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IRVINE, CA 92606

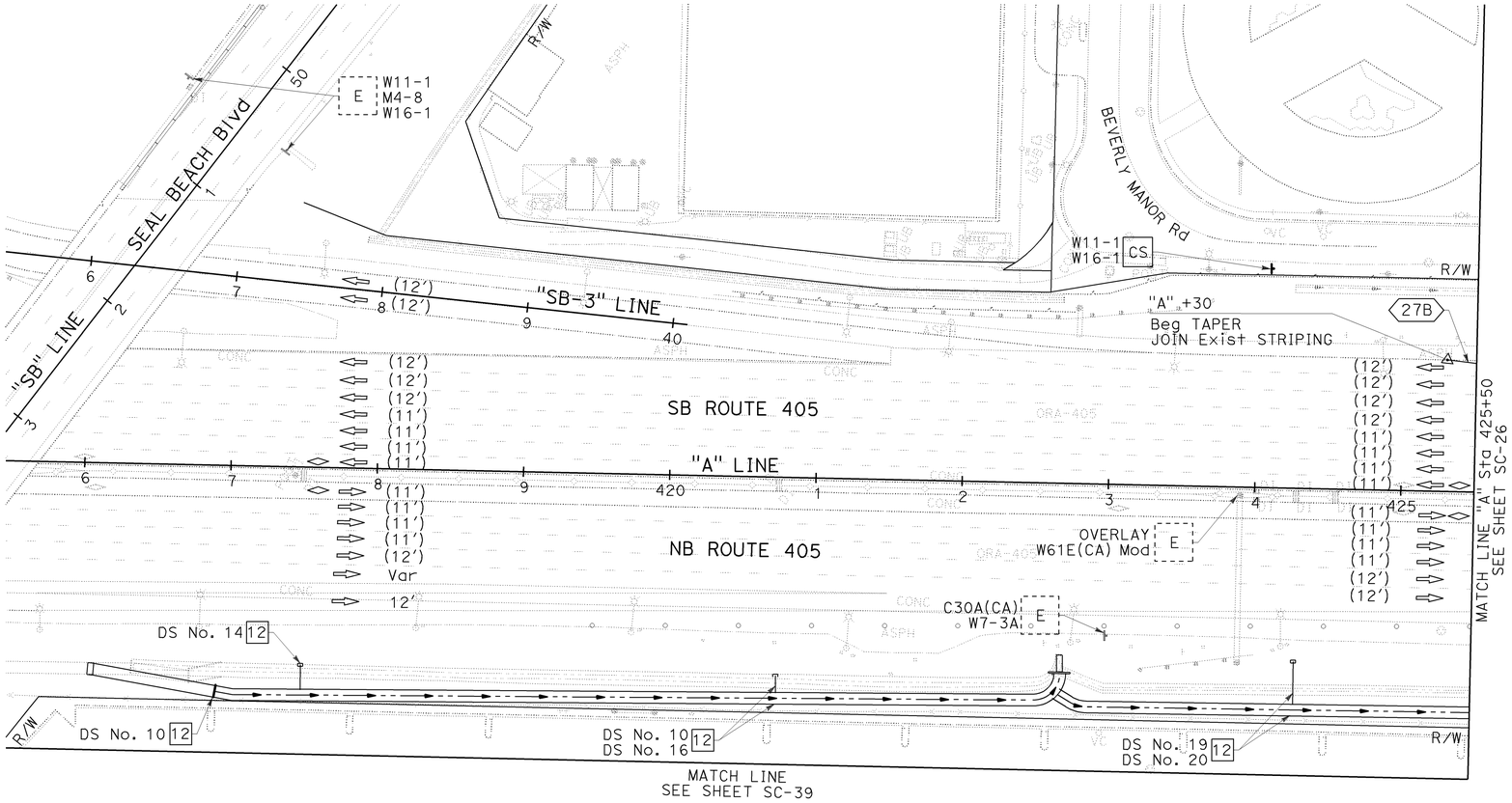
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTE THIS SHEET:

12 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.



STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-25

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY	CHECKED BY
KELSIE ANDERSON	JULIET SU

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 12:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	633	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

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SUITE 205
IRVINE, CA 92606

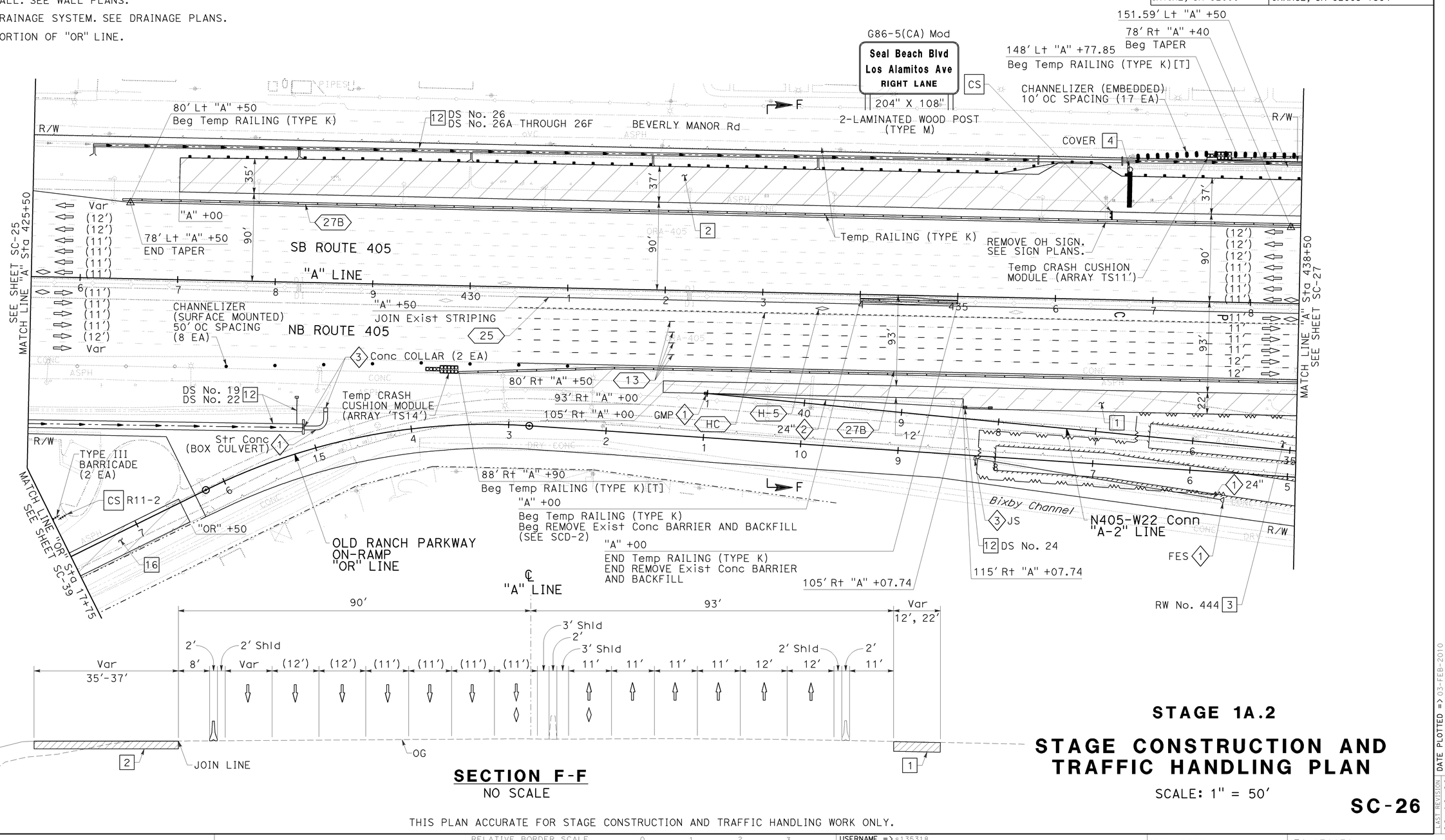
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

1 Const PORTION OF NB Pvmt.
2 Const PORTION OF SB Pvmt.
3 PLACE SURCHARGE.
4 Const OH SIGN. SEE SIGN PLANS.
5 Const WALL. SEE WALL PLANS.
12 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.
16 Const PORTION OF "OR" LINE.



SECTION F-F
NO SCALE

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
Caltrans	LEONARD SEQUEIRA	KELSIE ANDERSON	JULIET SU	KLA	12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:54
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s135318 DGN FILE => c07163ma026.dgn | CU 12235 | EA 071631

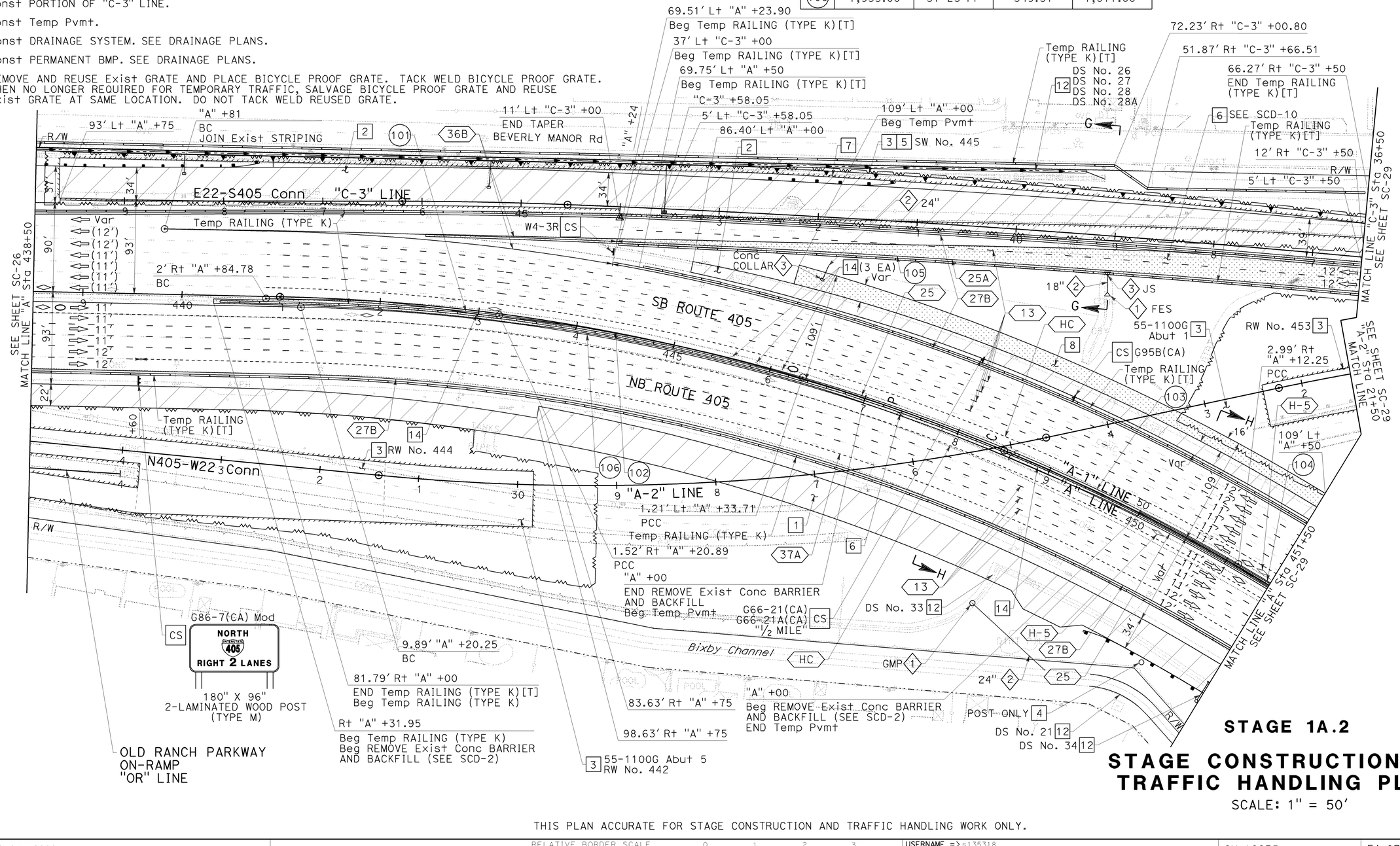
NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. SEE SHEET SC-28 FOR SECTIONS G-G AND H-H.

CONSTRUCTION NOTES THIS SHEET:

1 Const PORTION OF NB Pvmt.
2 Const PORTION OF SB Pvmt.
3 PLACE SURCHARGE.
4 Const OH SIGN. SEE SIGN PLANS.
5 Const WALL. SEE WALL PLANS.
6 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.
7 Const PORTION OF "C-3" LINE.
8 Const Temp Pvmt.
12 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.
13 Const PERMANENT BMP. SEE DRAINAGE PLANS.
14 REMOVE AND REUSE Exist GRATE AND PLACE BICYCLE PROOF GRATE. TACK WELD BICYCLE PROOF GRATE. WHEN NO LONGER REQUIRED FOR TEMPORARY TRAFFIC, SALVAGE BICYCLE PROOF GRATE AND REUSE Exist GRATE AT SAME LOCATION. DO NOT TACK WELD REUSED GRATE.

CURVE DATA				
No.	R	Δ	T	L
101	2,349.00′	05°45′13"	118.04′	235.88′
102	1,952.00′	09°10′55"	156.75′	312.82′
103	1,952.00′	14°03′46"	240.76′	479.10′
104	2,003.00′	47°59′44"	891.70′	1,677.87′
105	15,095.00′	04°35′03"	604.21′	1,207.77′
106	1,955.00′	31°23′17"	549.31′	1,071.00′



STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLANS

SCALE: 1" = 50′

SC-27

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Org	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	634	1929

Juliet Su
REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

MTS 16795 VON KARMAN AVE SUITE 205 IRVINE, CA 92606	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 S. MAIN STREET ORANGE, CA 92863-1584

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:55
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s135318 DGN FILE => c07163mq027.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	635	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

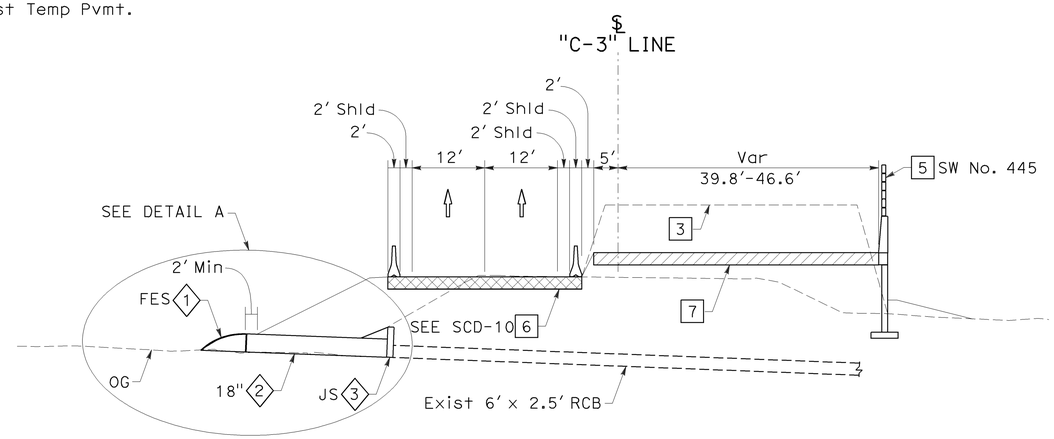
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

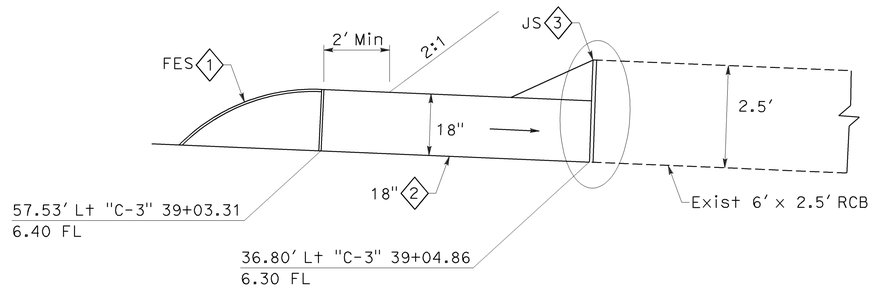
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION NOTES THIS SHEET:

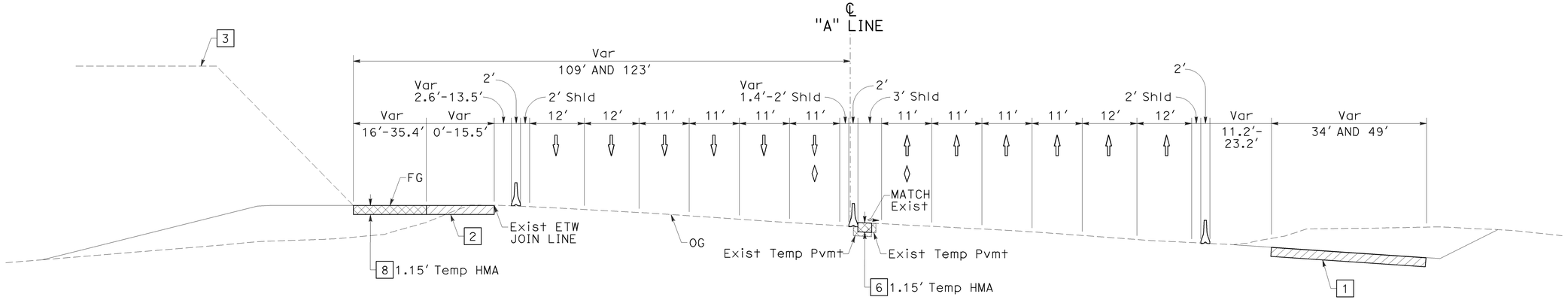
1 Const PORTION OF NB Pvmt.
2 Const PORTION OF SB Pvmt.
3 PLACE SURCHARGE.
5 Const WALL. SEE WALL PLANS.
6 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.
7 Const PORTION OF "C-3" LINE.
8 Const Temp Pvmt.



SECTION G-G



DETAIL A



SECTION H-H

STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

NO SCALE

SC-28

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA — DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:55
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s135318
DGN FILE => c07163ma028.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	636	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

MTS
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SUITE 205
IRVINE, CA 92606

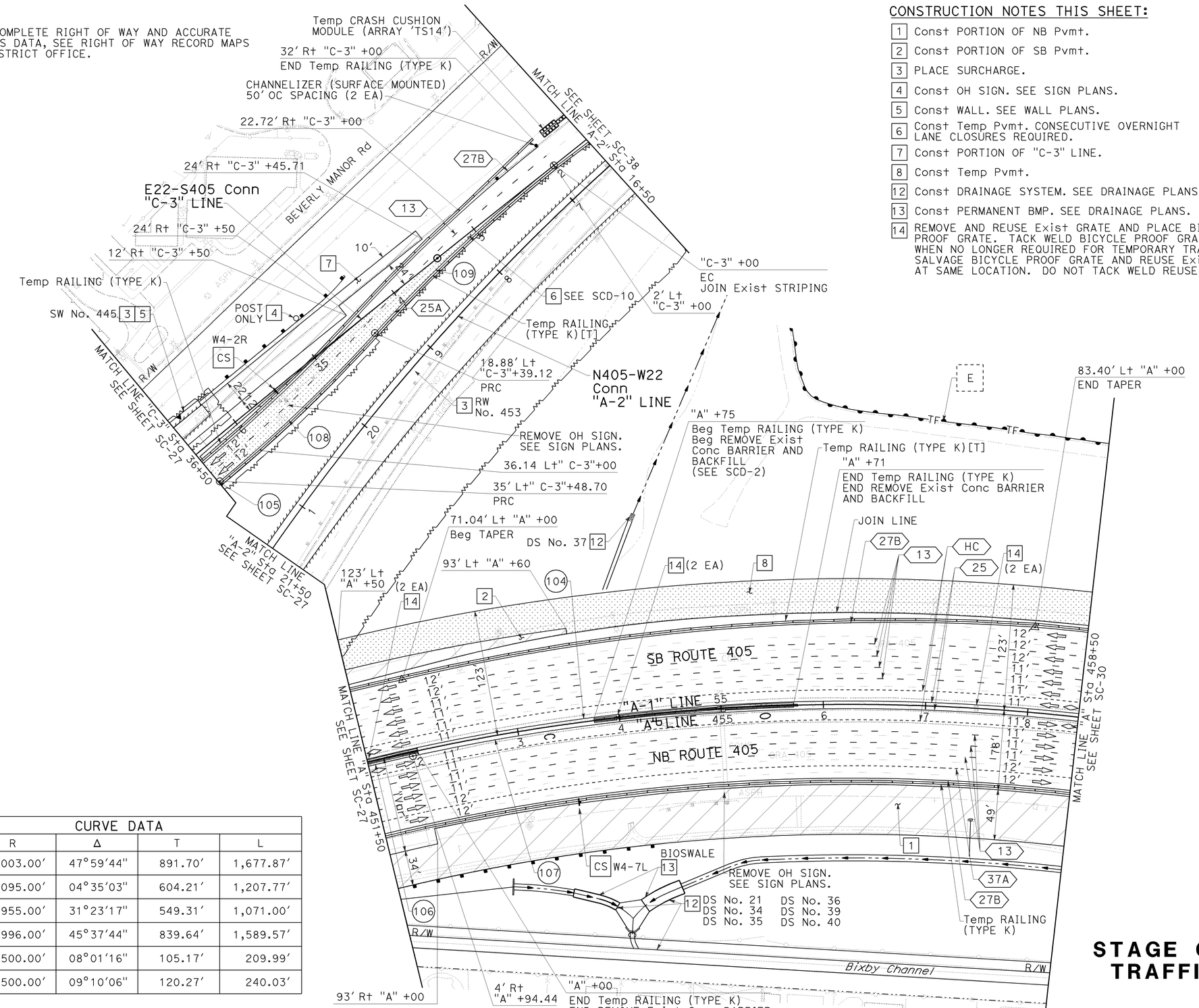
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

1. Const PORTION OF NB Pvmt.
2. Const PORTION OF SB Pvmt.
3. PLACE SURCHARGE.
4. Const OH SIGN. SEE SIGN PLANS.
5. Const WALL. SEE WALL PLANS.
6. Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.
7. Const PORTION OF "C-3" LINE.
8. Const Temp Pvmt.
12. Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.
13. Const PERMANENT BMP. SEE DRAINAGE PLANS.
14. REMOVE AND REUSE Exist GRATE AND PLACE BICYCLE PROOF GRATE. TACK WELD BICYCLE PROOF GRATE. WHEN NO LONGER REQUIRED FOR TEMPORARY TRAFFIC, SALVAGE BICYCLE PROOF GRATE AND REUSE Exist GRATE AT SAME LOCATION. DO NOT TACK WELD REUSED GRATE.



CURVE DATA				
No.	R	Δ	T	L
104	2,003.00′	47°59′44"	891.70′	1,677.87′
105	15,095.00′	04°35′03"	604.21′	1,207.77′
106	1,955.00′	31°23′17"	549.31′	1,071.00′
107	1,996.00′	45°37′44"	839.64′	1,589.57′
108	1,500.00′	08°01′16"	105.17′	209.99′
109	1,500.00′	09°10′06"	120.27′	240.03′

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-29

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans®

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON

CHECKED BY: JULIET SU

REVISED BY: KLA — DATE REVISED: 12/22/09

LAST REVISION — DATE PLOTTED => 03-FEB-2010 — TIME PLOTTED => 12:55 — 08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135318
DGN FILE => c07163ma029.dgn

CU 12235 | EA 071631

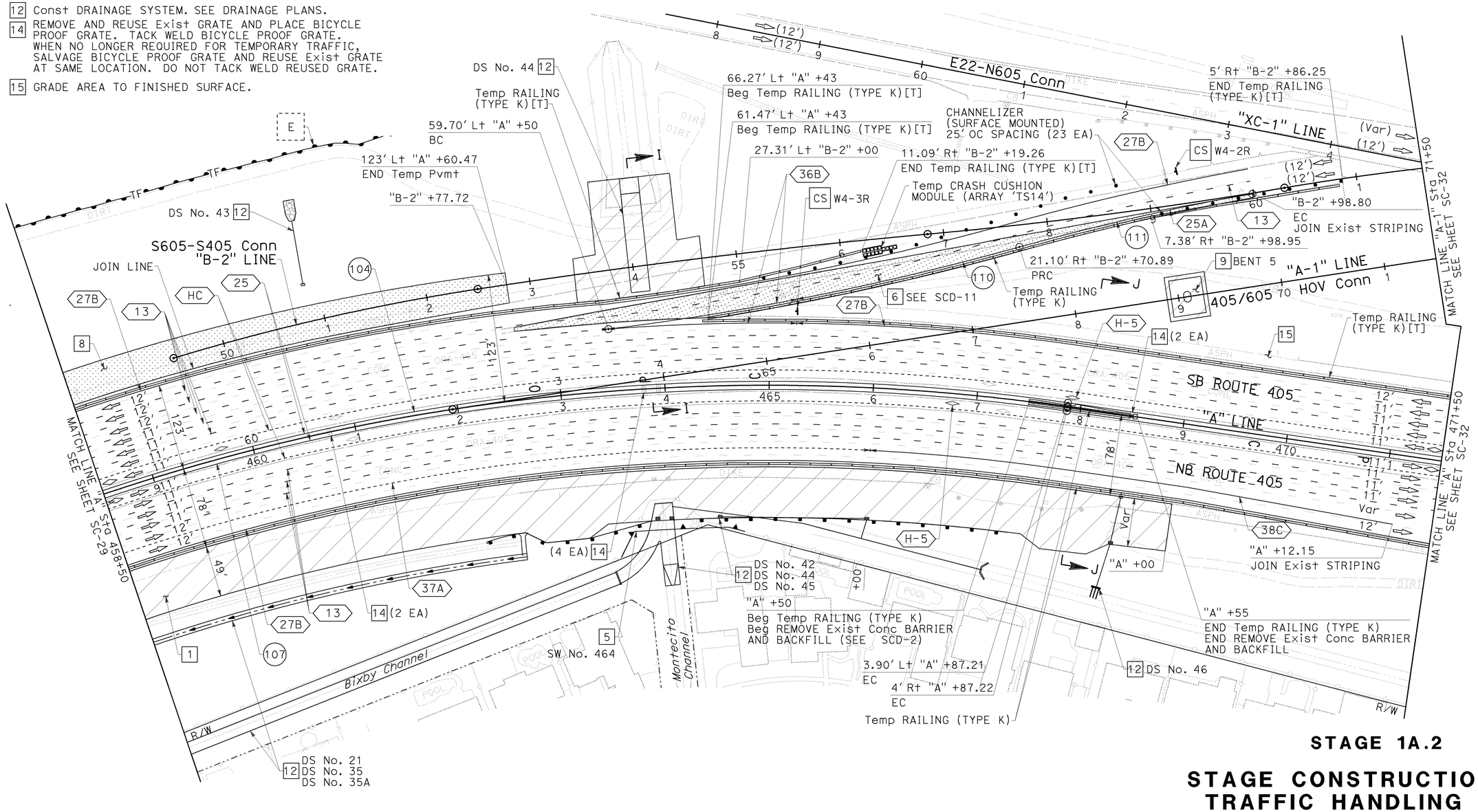
NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. SEE SHEET SC-31 FOR SECTIONS H-H, I-I AND J-J.

CONSTRUCTION NOTES THIS SHEET:

1 Const PORTION OF NB Pvmt.
5 Const WALL. SEE WALL PLANS.
6 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.
8 Const Temp Pvmt.
9 Const PORTION OF Br No. 55-1098E. SEE STRUCTURE PLANS.
12 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.
14 REMOVE AND REUSE Exist GRATE AND PLACE BICYCLE PROOF GRATE. TACK WELD BICYCLE PROOF GRATE. WHEN NO LONGER REQUIRED FOR TEMPORARY TRAFFIC, SALVAGE BICYCLE PROOF GRATE AND REUSE Exist GRATE AT SAME LOCATION. DO NOT TACK WELD REUSED GRATE.
15 GRADE AREA TO FINISHED SURFACE.

CURVE DATA				
No.	R	Δ	T	L
104	2,003.00′	47°59′44"	891.70′	1,677.87′
107	1,996.00′	45°37′44"	839.64′	1,589.57′
110	2,700.00′	08°32′44"	201.72′	402.70′
111	2,500.00′	05°15′30"	114.80′	229.44′



STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-30

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	637	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
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.

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16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

REVISED BY	DATE REVISED
KLA	12/22/09

KELSIE ANDERSON — JULIET SU — CALCULATED-DESIGNED BY — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:55
08-10-09

BORDER LAST REVISED 8/1/2008 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — USERNAME => s135318 — DGN FILE => c07163ma030.dgn — CU 12235 — EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	638	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
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.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

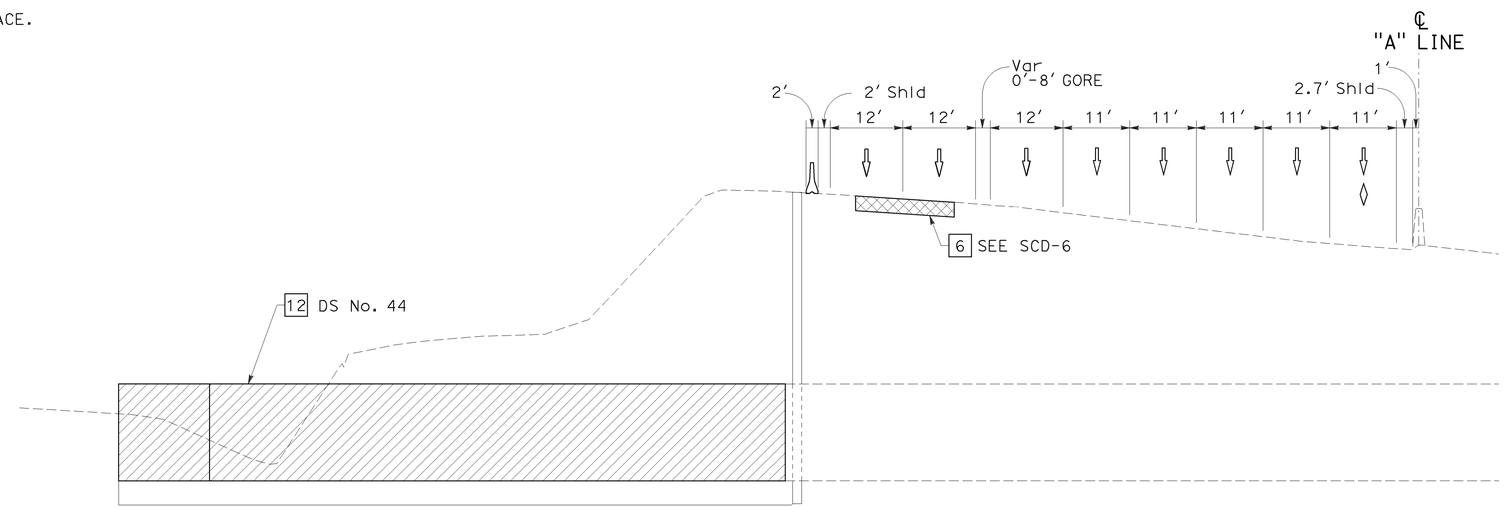
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION NOTES THIS SHEET:

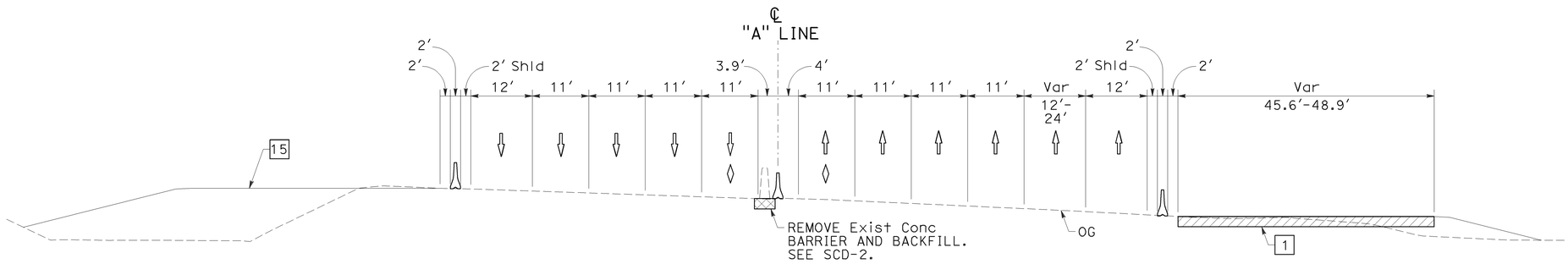
1 Const PORTION OF NB Pvmt.

6 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.

15 GRADE AREA TO FINISHED SURFACE.



SECTION I-I



SECTION J-J

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

NO SCALE

SC-31

REVISED BY	DATE REVISED
KLA	12/22/09

KELSIE ANDERSON
JULIET SU

CALCULATED-DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR
LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 12:55

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135318
DGN FILE => c07163ma031.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	639	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

JULIET SU No. C56168 Exp.12/31/10 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.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

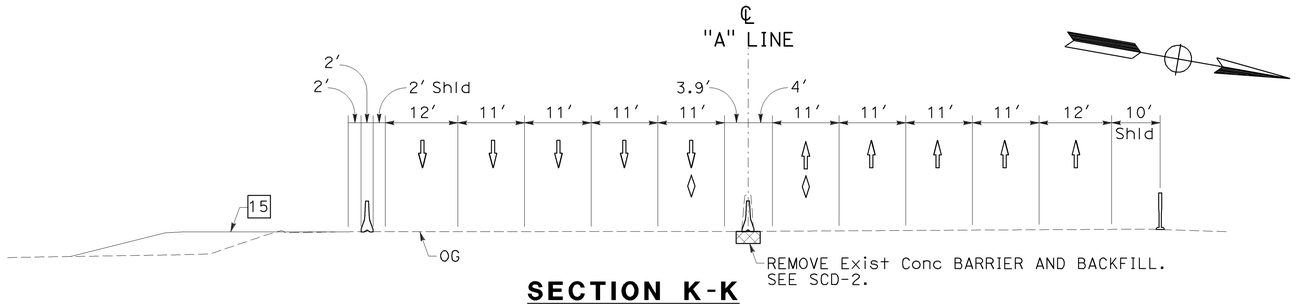
6 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.

8 Const Temp Pvmt.

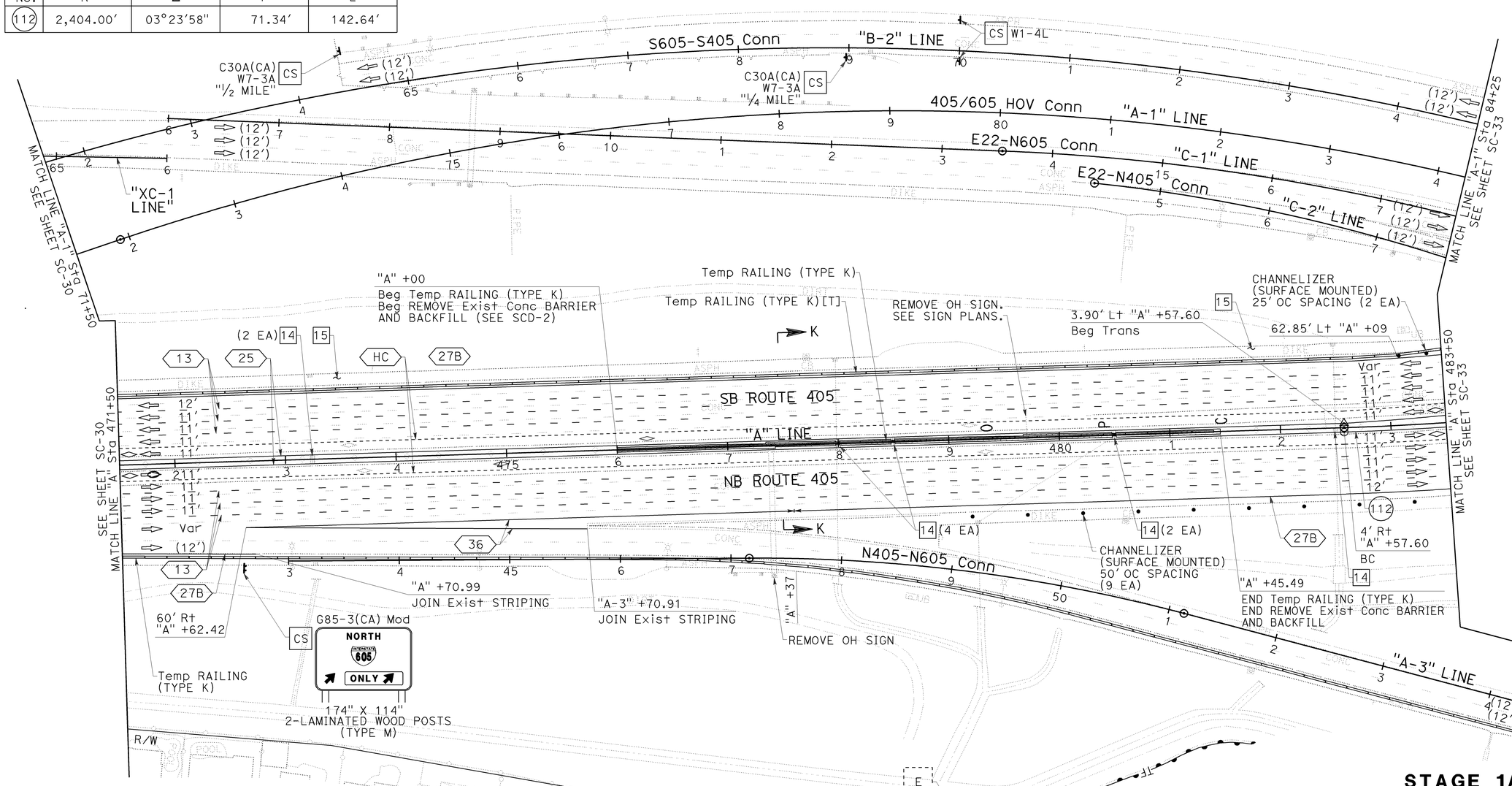
14 REMOVE AND REUSE Exist GRATE AND PLACE BICYCLE PROOF GRATE. TACK WELD BICYCLE PROOF GRATE. WHEN NO LONGER REQUIRED FOR TEMPORARY TRAFFIC, SALVAGE BICYCLE PROOF GRATE AND REUSE Exist GRATE AT SAME LOCATION. DO NOT TACK WELD REUSED GRATE.

15 GRADE AREA TO FINISHED SURFACE.

CURVE DATA				
No.	R	Δ	T	L
112	2,404.00′	03°23′58"	71.34′	142.64′



SECTION K-K
NO SCALE



STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-32

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:56
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s135318
DGN FILE => c07163ma032.dgn
CU 12235
EA 071631

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CURVE DATA				
No.	R	Δ	T	L
112	2,404.00′	03°23′58"	71.34′	142.64′
500	2,500.00′	31°31′05"	705.50′	1,375.23′

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Org	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	640	1929

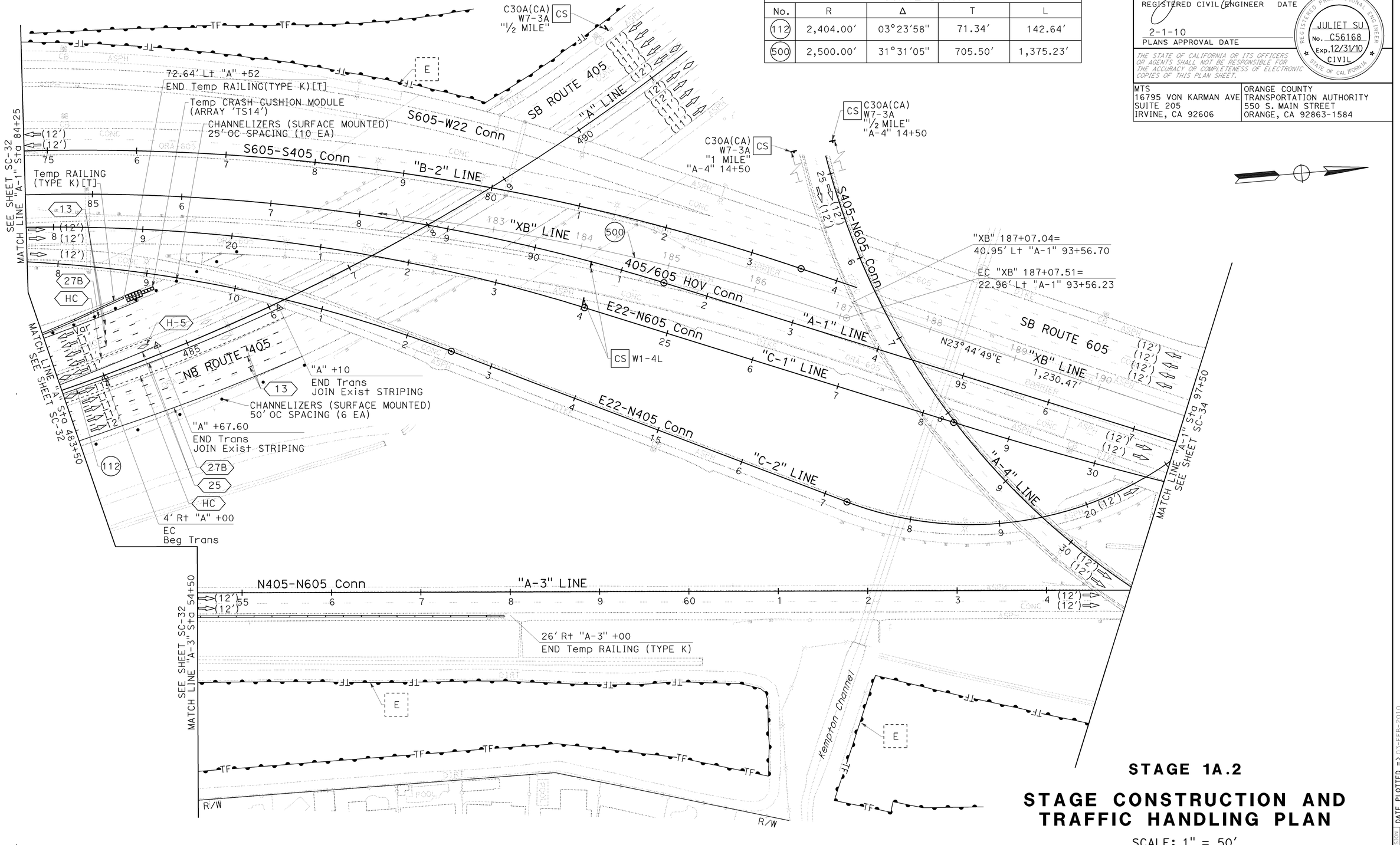
REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

MTS 16795 VON KARMAN AVE SUITE 205 IRVINE, CA 92606	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 S. MAIN STREET ORANGE, CA 92863-1584



STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-33

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	LEONARD SEQUEIRA		
CALCULATED-DESIGNED BY	KELSIE ANDERSON	KLA	12/22/09	
CHECKED BY	JULIET SU	REVISED BY	DATE REVISED	

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:56
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s135318 DGN FILE => c07163ma033.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	641	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
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.

MTS 16795 VON KARMAN AVE SUITE 205 IRVINE, CA 92606	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 S. MAIN STREET ORANGE, CA 92863-1584

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. SEE SHEET SC-35 FOR SECTIONS L-L AND M-M.

CONSTRUCTION NOTES THIS SHEET:

5 Const WALL. SEE WALL PLANS.

6 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.

10 Const PORTION OF "A-4" LINE.

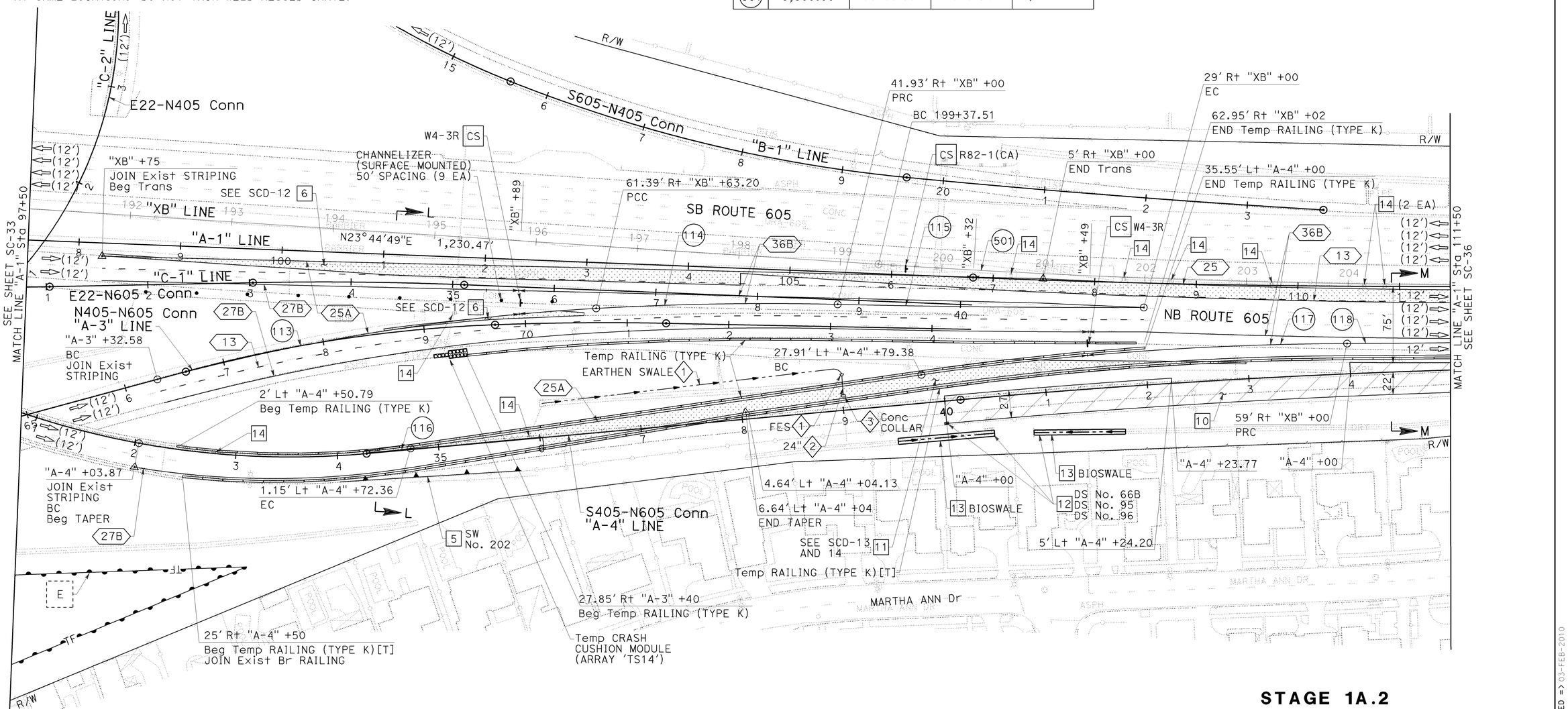
11 Const Temp Conn, "TA-4" LINE.

12 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.

13 Const PERMANENT BMP. SEE DRAINAGE PLANS.

14 REMOVE AND REUSE Exist GRATE AND PLACE BICYCLE PROOF GRATE. TACK WELD BICYCLE PROOF GRATE. WHEN NO LONGER REQUIRED FOR TEMPORARY TRAFFIC, SALVAGE BICYCLE PROOF GRATE AND REUSE Exist GRATE AT SAME LOCATION. DO NOT TACK WELD REUSED GRATE.

CURVE DATA				
No.	R	Δ	T	L
113	2,100.00′	11°57′18"	219.88′	438.17′
114	3,000.00′	04°32′21"	118.89′	237.66′
115	11,905.00′	01°26′59"	150.62′	301.23′
116	826.00′	18°37′31"	135.45′	268.51′
117	3,000.00′	08°01′41"	210.52′	420.35′
118	9,554.00′	01°48′36"	150.93′	301.83′
501	9,500.00′	06°09′00"	510.34′	1,019.71′



STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-34

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA — DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:56
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s135318 DGN FILE => c07163ma034.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	642	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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MTS
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SUITE 205
IRVINE, CA 92606

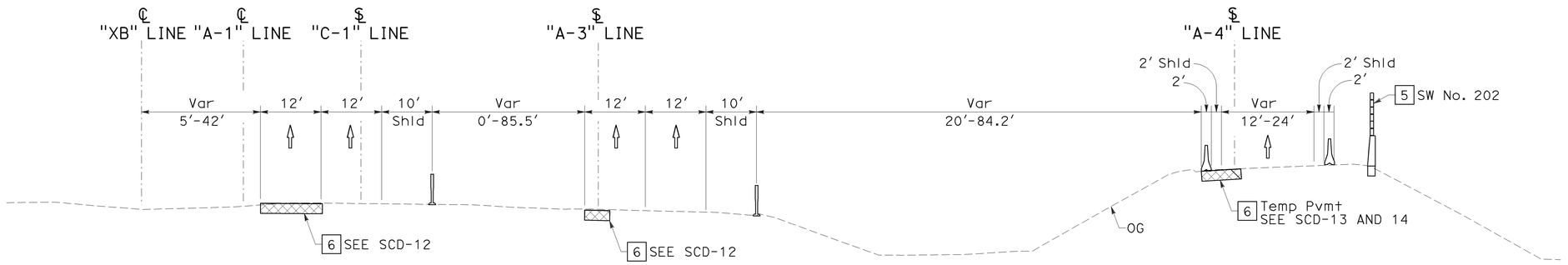
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION NOTES THIS SHEET:

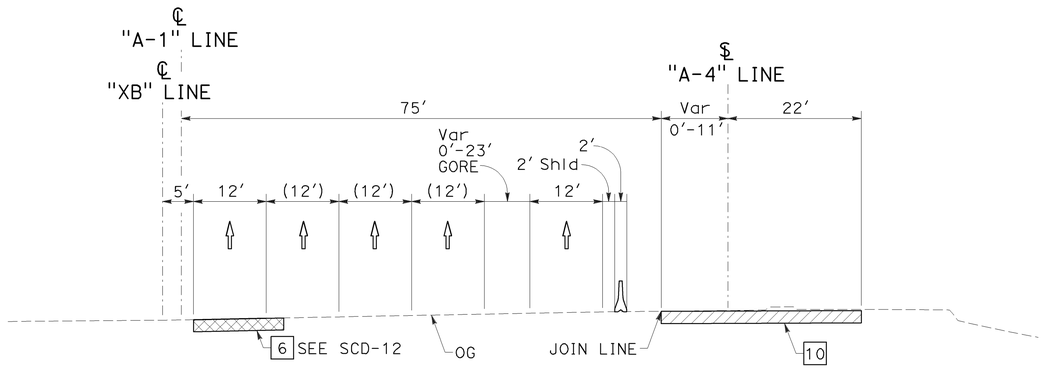
5 Const WALL. SEE WALL PLANS.

6 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.

10 Const PORTION OF "A-4" LINE.



SECTION L-L



SECTION M-M

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

NO SCALE

SC-35

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:56
08-10-09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	643	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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MTS 16795 VON KARMAN AVE SUITE 205 IRVINE, CA 92606	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 S. MAIN STREET ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

1 Const PORTION OF NB Pvmt.

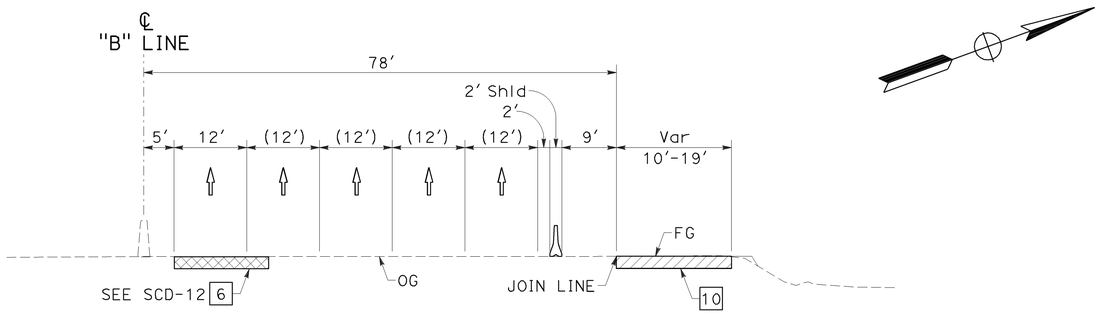
6 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.

10 Const PORTION OF "A-4" LINE.

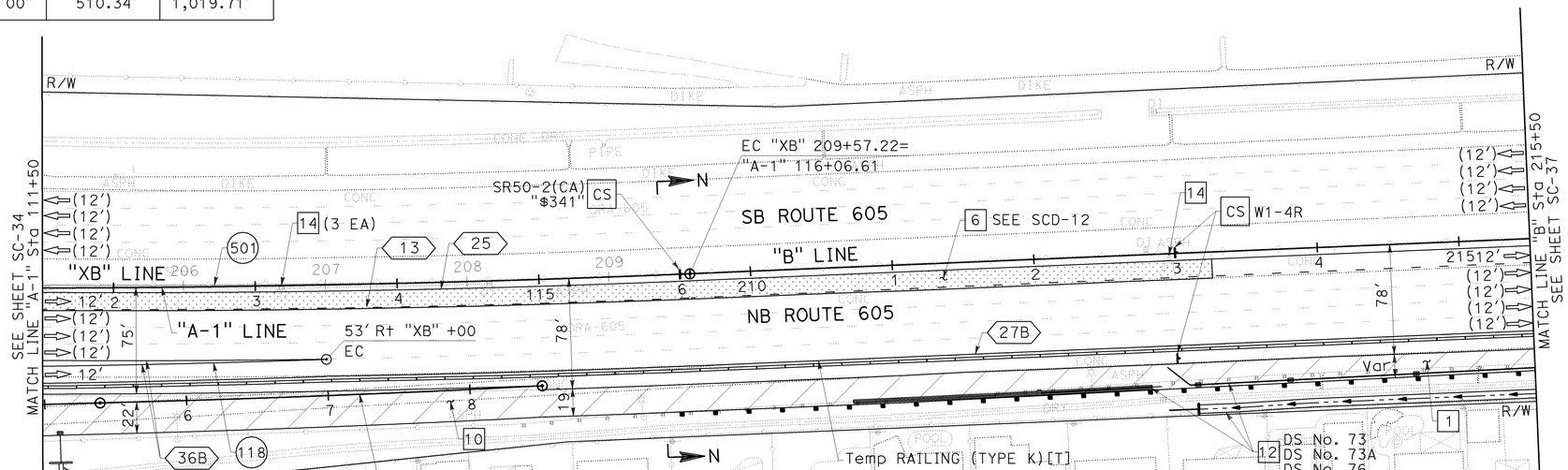
12 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.

14 REMOVE AND REUSE Exist GRATE AND PLACE BICYCLE PROOF GRATE. TACK WELD BICYCLE PROOF GRATE. WHEN NO LONGER REQUIRED FOR TEMPORARY TRAFFIC, SALVAGE BICYCLE PROOF GRATE AND REUSE Exist GRATE AT SAME LOCATION. DO NOT TACK WELD REUSED GRATE.

CURVE DATA				
No.	R	Δ	T	L
118	9,554.00′	01°48′36"	150.93′	301.83′
501	9,500.00′	06°09′00"	510.34′	1,019.71′



SECTION N-N
NO SCALE



STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-36

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

REVISED BY	DATE REVISED
KLA	12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:56
08-10-09

BORDER LAST REVISED 8/1/2008 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — USERNAME => s135318 DGN FILE => c07163ma036.dgn — CU 12235 — EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	644	1929

REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU — No. C56168 — Exp.12/31/10 — 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.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

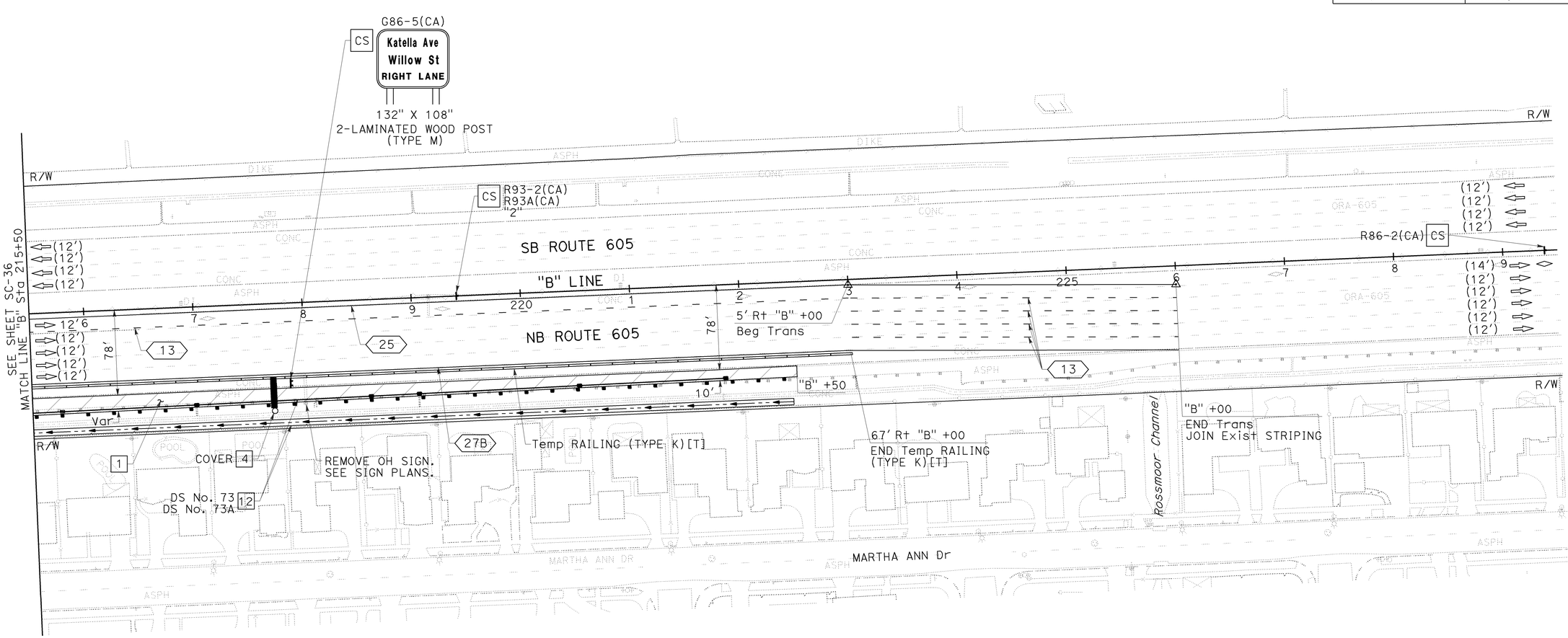
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

1 Const PORTION OF NB Pvmt.
4 Const OH SIGN. SEE SIGN PLANS.
12 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.



STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-37

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 8/10/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:56
08-10-09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	645	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

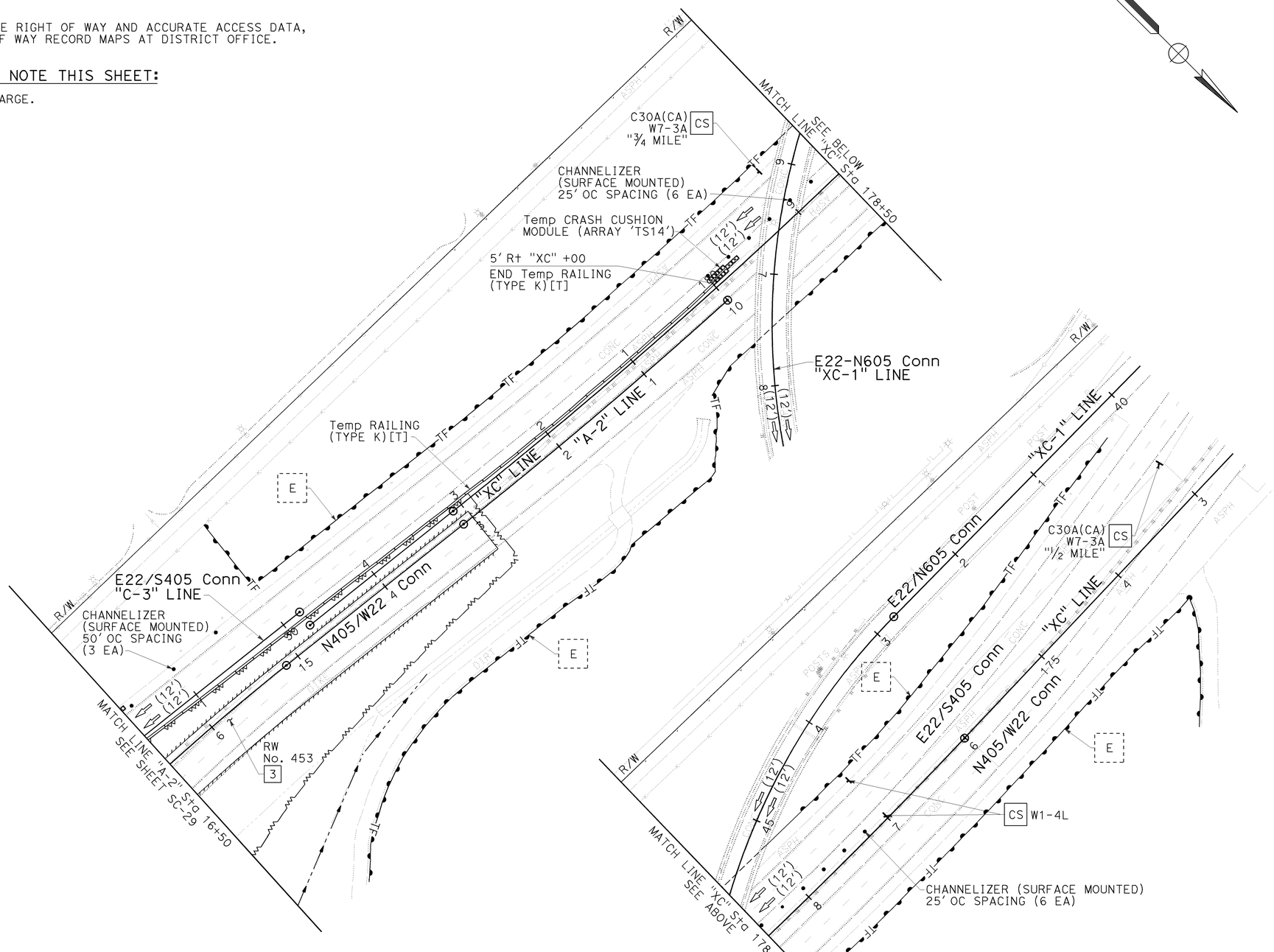
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTE THIS SHEET:

3 PLACE SURCHARGE.



STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-38

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY	KLA	12/22/09	
CHECKED BY	JULIET SU	DATE REVISED	
	KELSIE ANDERSON	REVISED BY	

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 12:57 | 08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s135318 | DGN FILE => c07163ma038.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Org	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	646	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
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.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

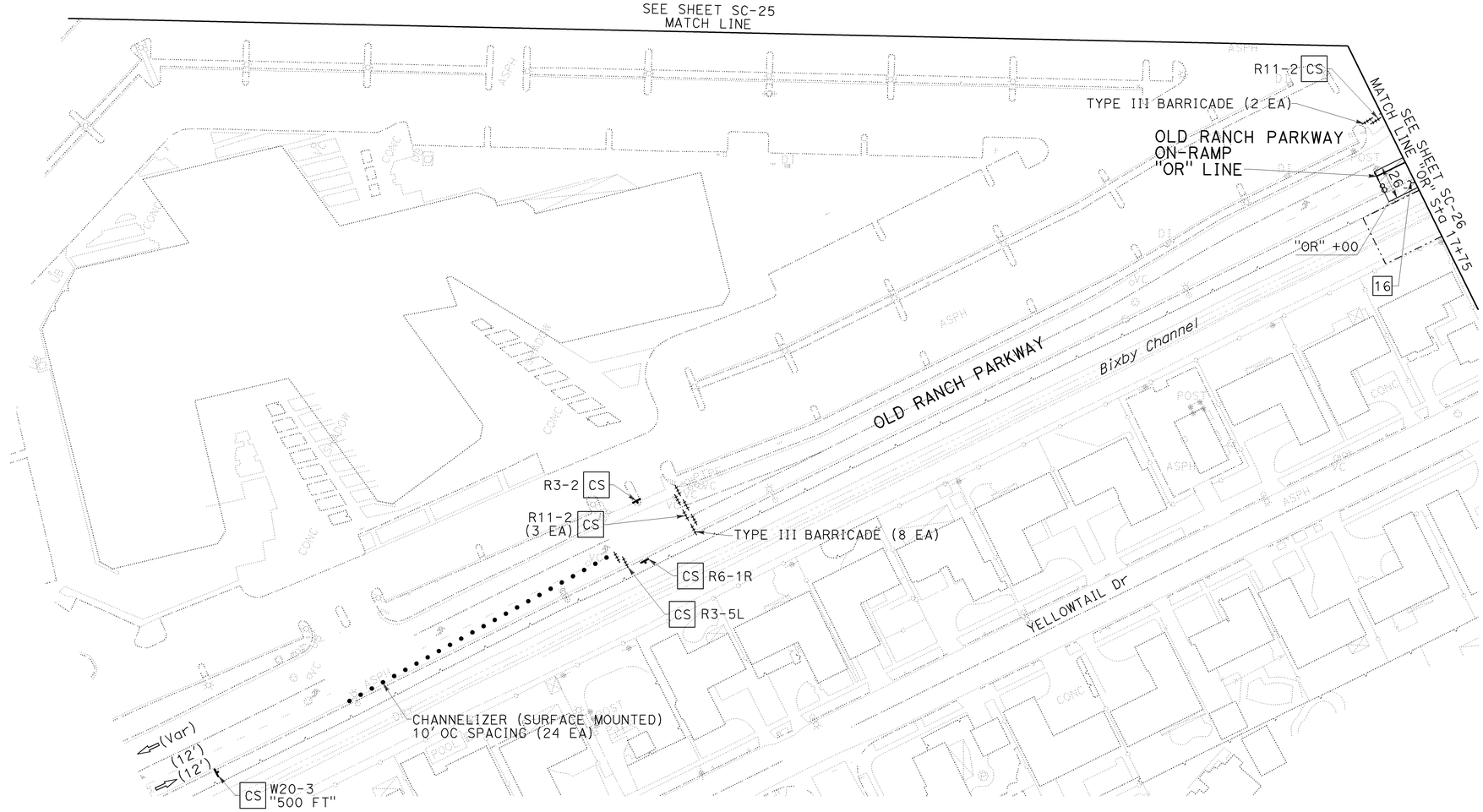
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTE THIS SHEET:

16 Const PORTION OF "OR" LINE.



STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-39

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 12:57

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135318
DGN FILE => c07163ma039.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	647	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

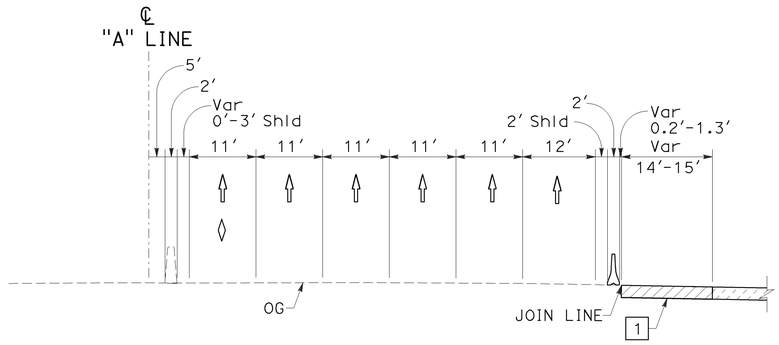
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

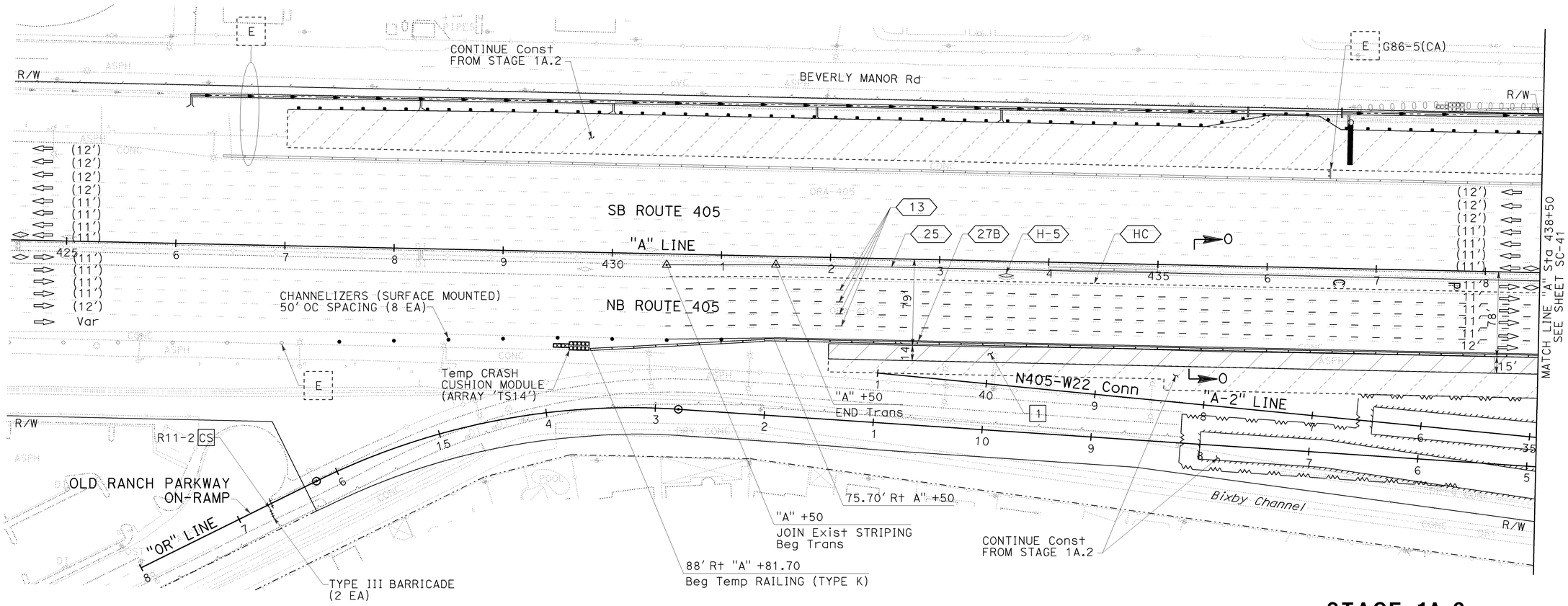
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTE THIS SHEET:

1 CONSTRUCT PORTION OF NB Pvmt.



SECTION O-O
NO SCALE



STAGE 1A.3

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-40

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 12:57

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s135318 DGN FILE => c07163ma040.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	648	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

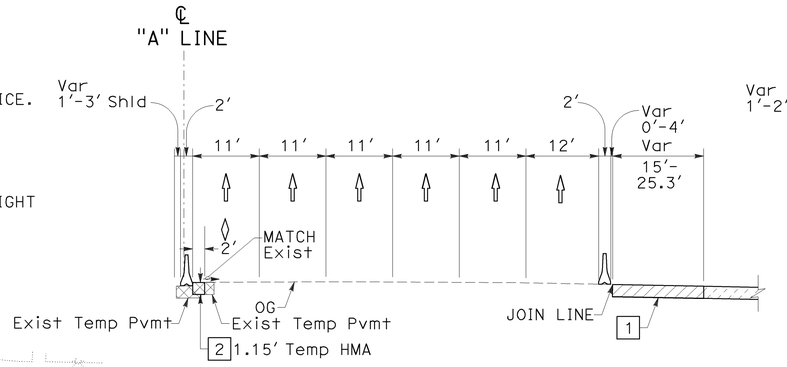
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

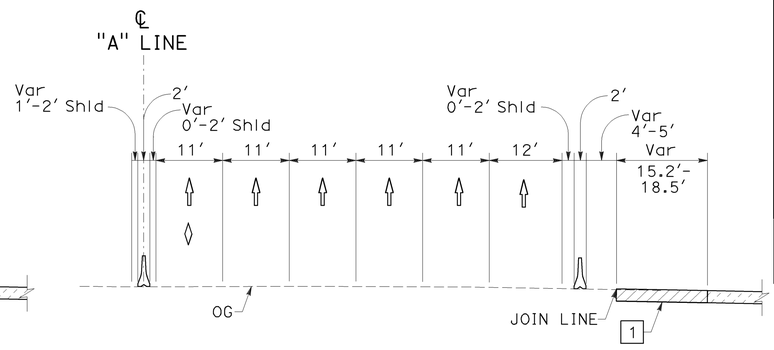
CONSTRUCTION NOTES THIS SHEET:

1 Const PORTION OF NB Pvmt.

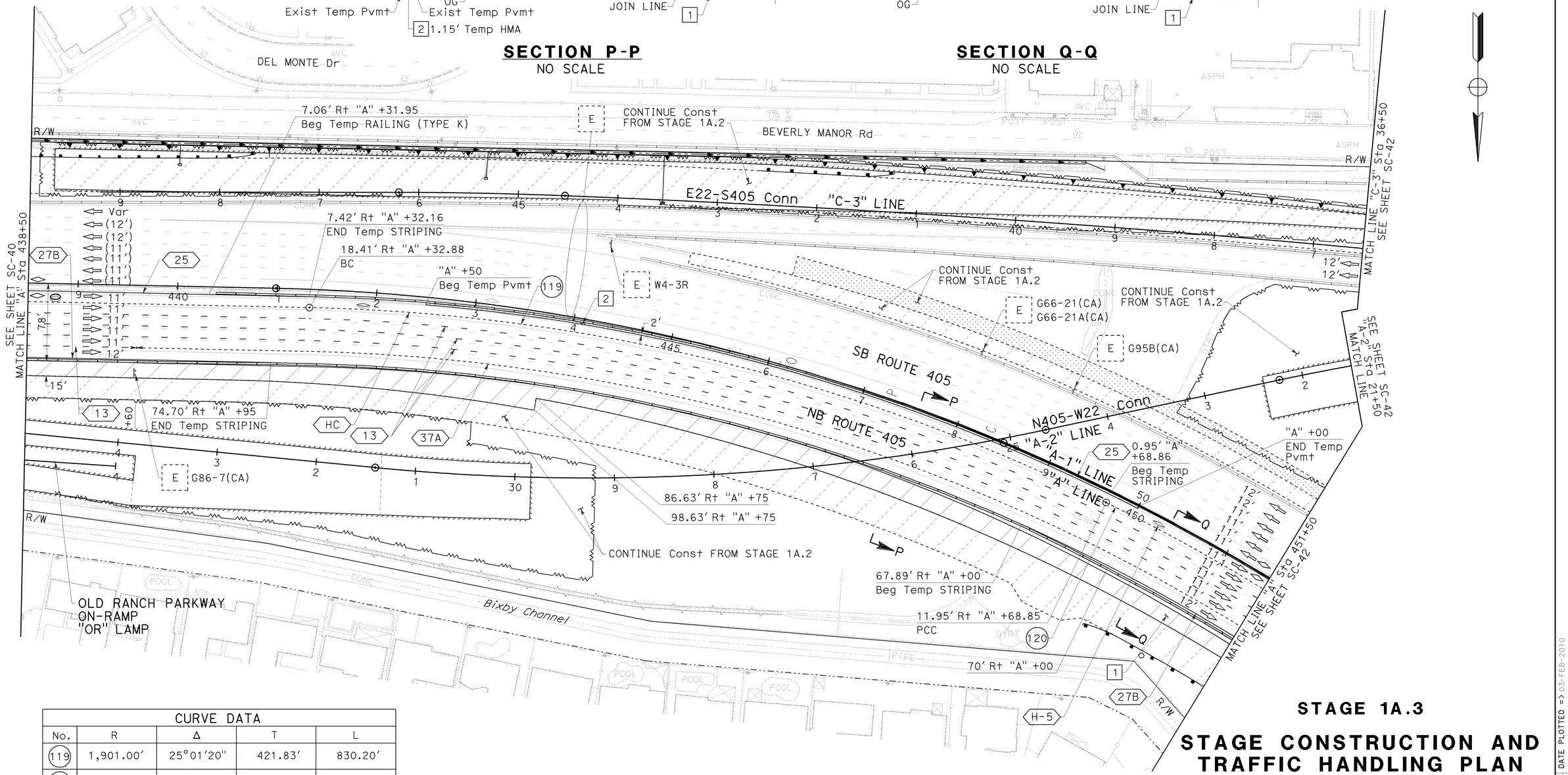
2 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.



SECTION P-P
NO SCALE



SECTION Q-Q
NO SCALE



CURVE DATA				
No.	R	Δ	T	L
119	1,901.00′	25°01′20"	421.83′	830.20′
120	1,987.00′	51°59′44"	969.03′	1,803.19′

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1A.3

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-41

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON

CHECKED BY: JULIET SU

REVISED BY: KLA — DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:57

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135318
DGN FILE => c07163ma041.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	649	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU — No. C56168 — Exp.12/31/10 — 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.

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16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

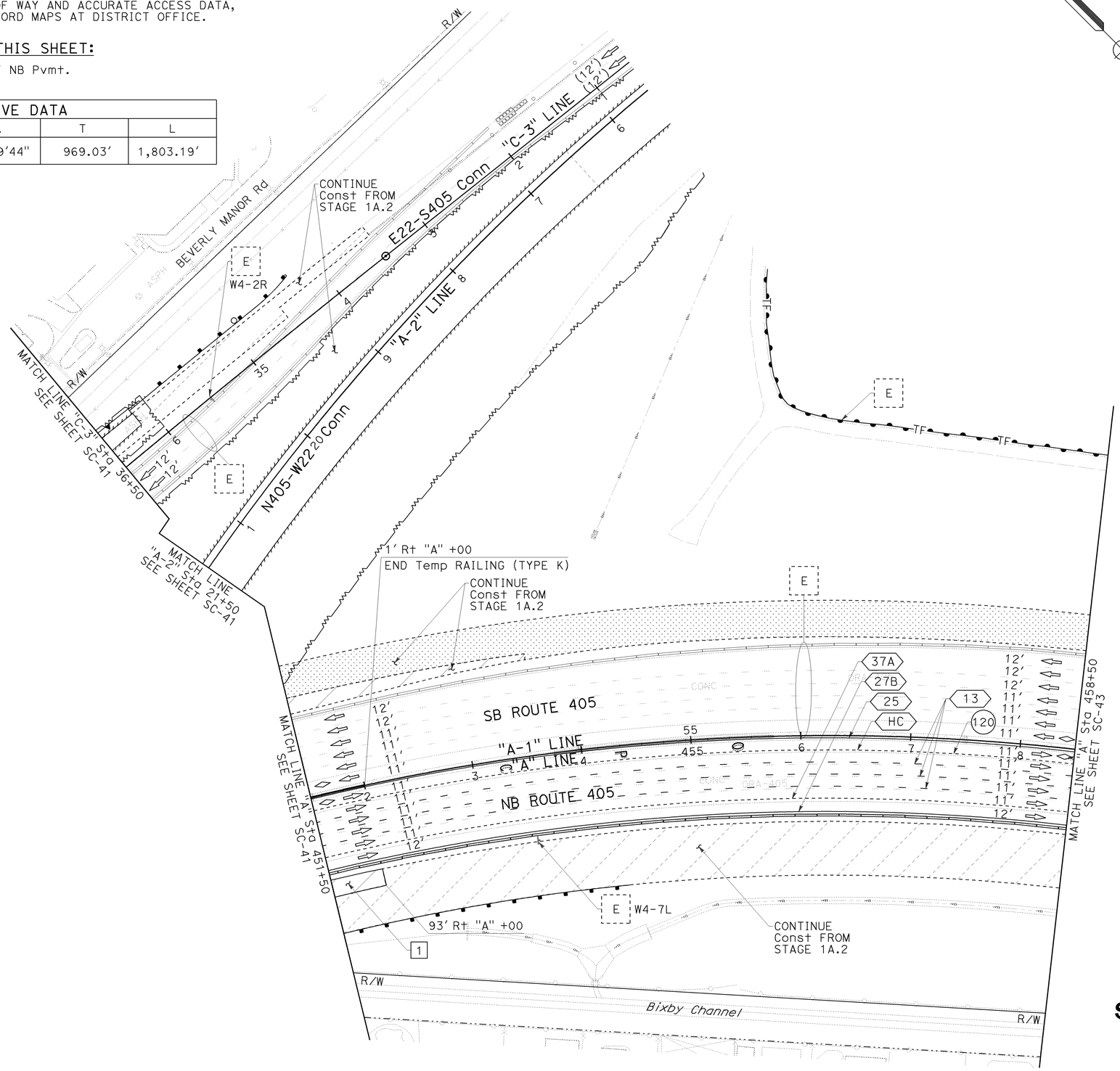
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTE THIS SHEET:

1 CONSTRUCT PORTION OF NB Pvmt.

CURVE DATA				
No.	R	Δ	T	L
120	1,987.00′	51°59′44"	969.03′	1,803.19′



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1A.3

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-42

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: 08-10-09
DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:57

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	650	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
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.

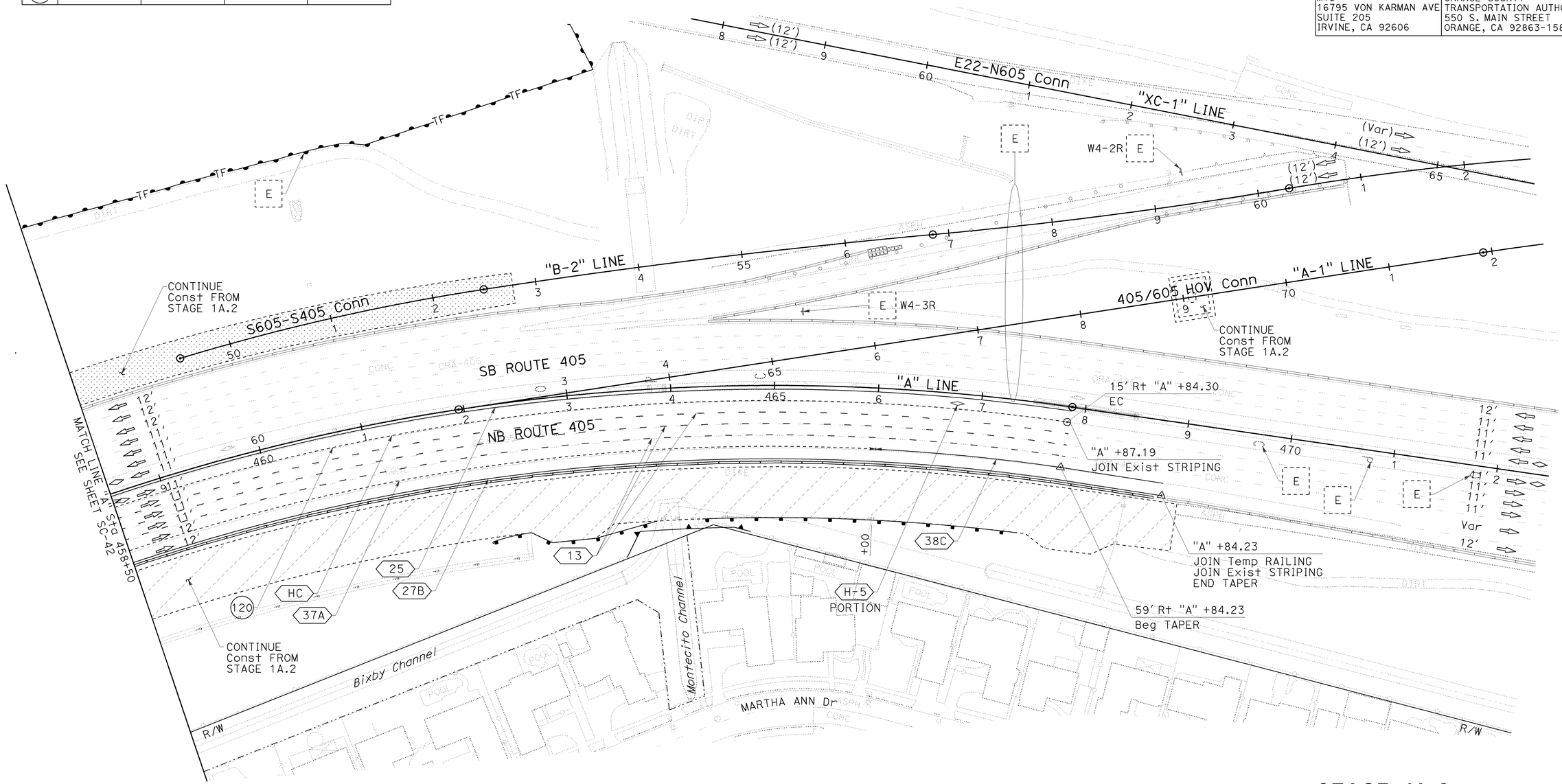
MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CURVE DATA				
No.	R	Δ	T	L
(120)	1,987.00′	51°59′44"	969.03′	1,803.19′



STAGE 1A.3

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-43

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY: KLA
CHECKED BY: 12/22/09
REVISED BY: KELSIE ANDERSON
DATE REVISED: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 12:38

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak DGN FILE => c07163ma043.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	651	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
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.

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SUITE 205
IRVINE, CA 92606

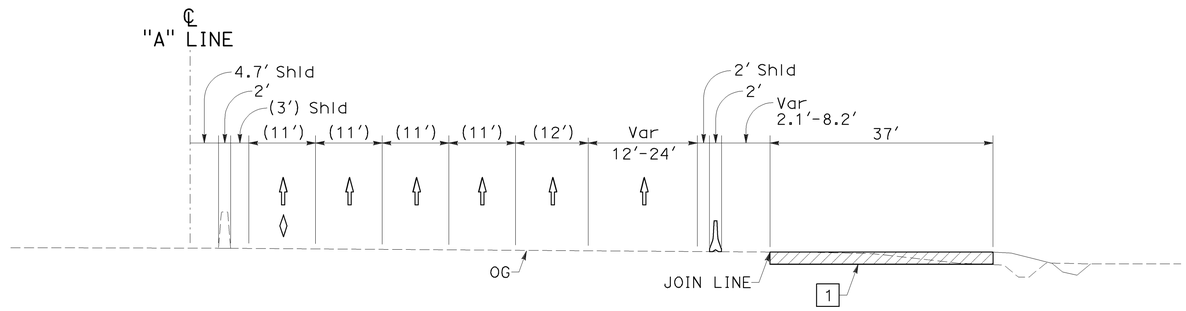
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

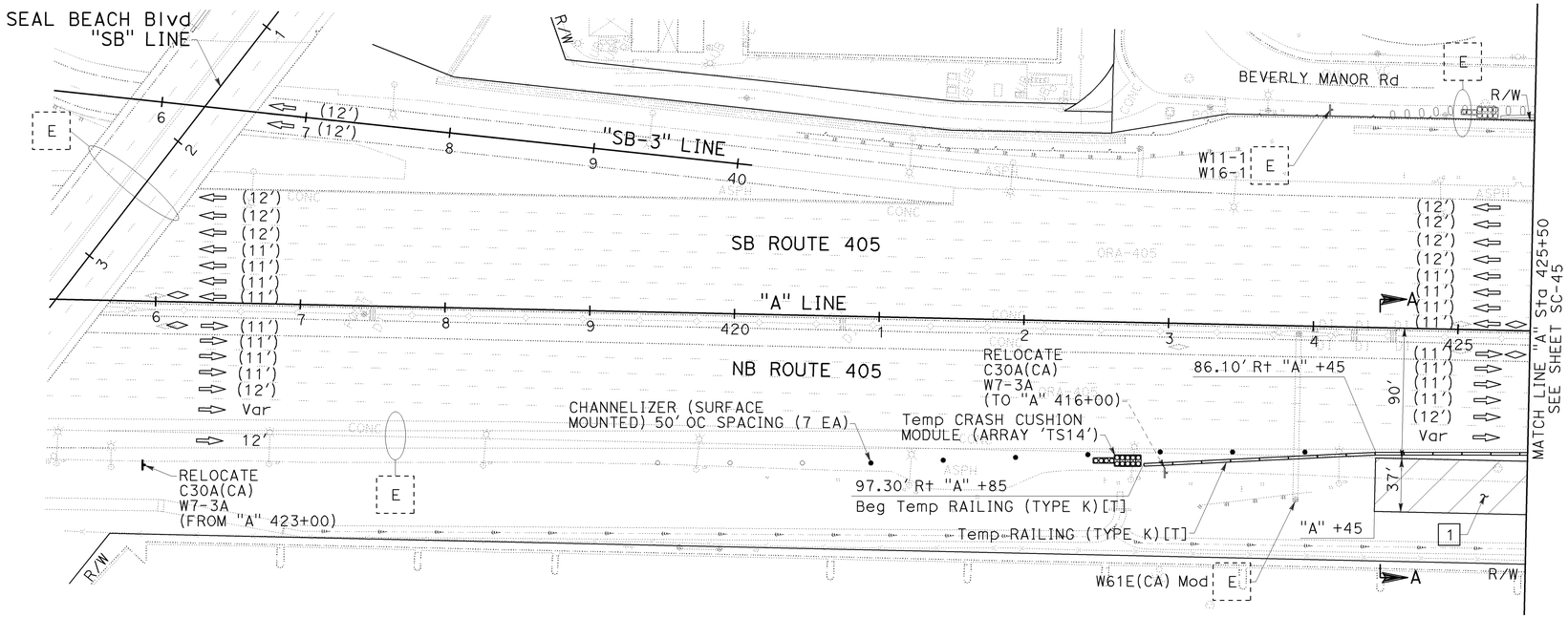
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTE THIS SHEET:

[1] Const PORTION OF NB Pvmt.



SECTION A-A
NO SCALE



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-44

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:38
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak | DGN FILE => c07163ma044.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	652	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
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.

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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

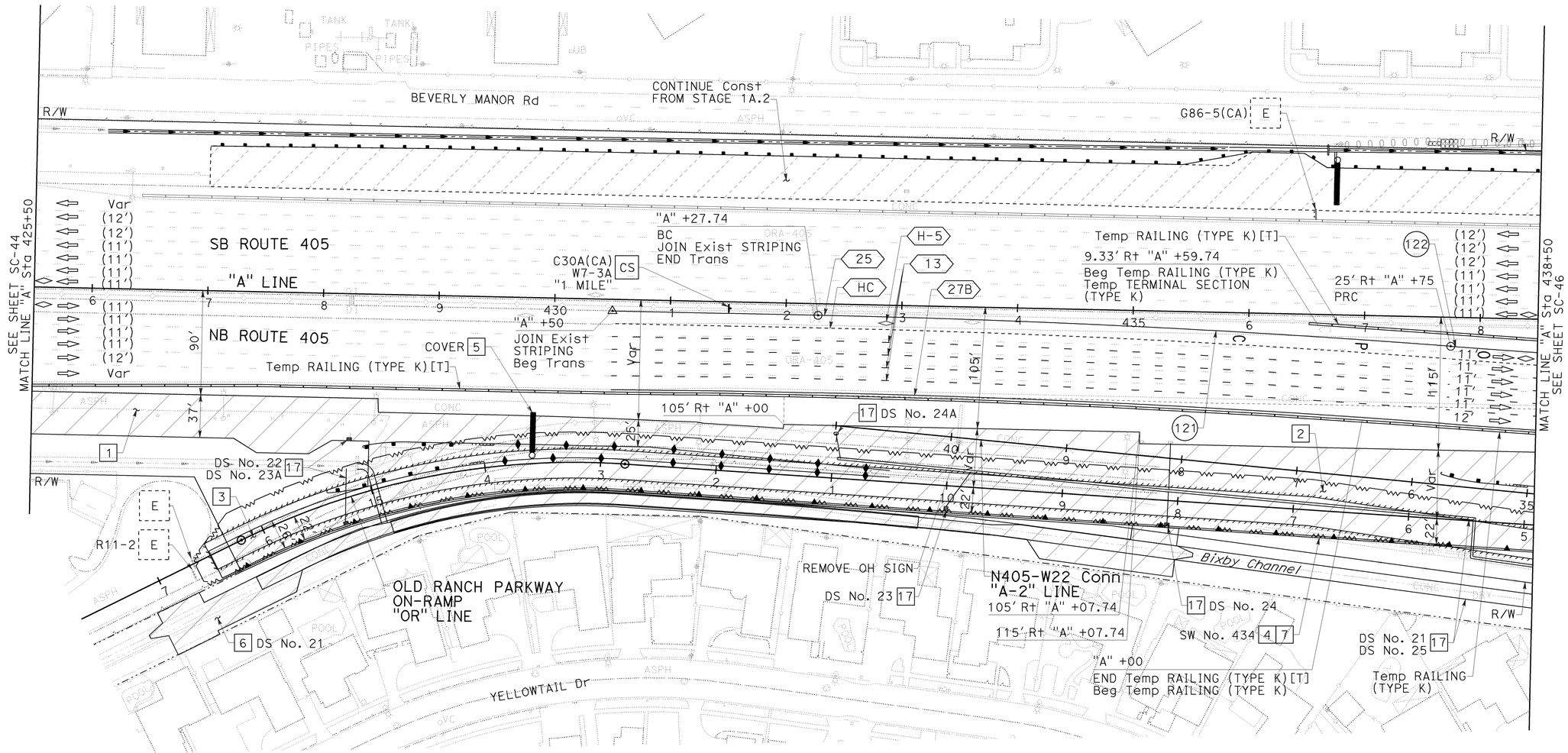
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

1 Const PORTION OF NB Pvmt.
2 Const "A-2" LINE.
3 Const REMAINDER OF "OR" LINE.
4 Const WALL. SEE WALL PLANS.
5 Const OH SIGN. SEE SIGN PLANS.
6 Const BIXBY CHANNEL REALIGNMENT. SEE DRAINAGE PLANS.
7 PLACE SURCHARGE.
17 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.

CURVE DATA				
No.	R	Δ	T	L
(121)	10,000.00′	03°08′14"	273.84′	547.54′
(122)	10,000.00′	01°51′49"	162.64′	325.25′



STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-45

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
KELSIE ANDERSON	JULIET SU	KLA	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:38
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak DGN FILE => c07163ma045.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	653	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

JULIET SU No. C56168 Exp.12/31/10 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.

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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

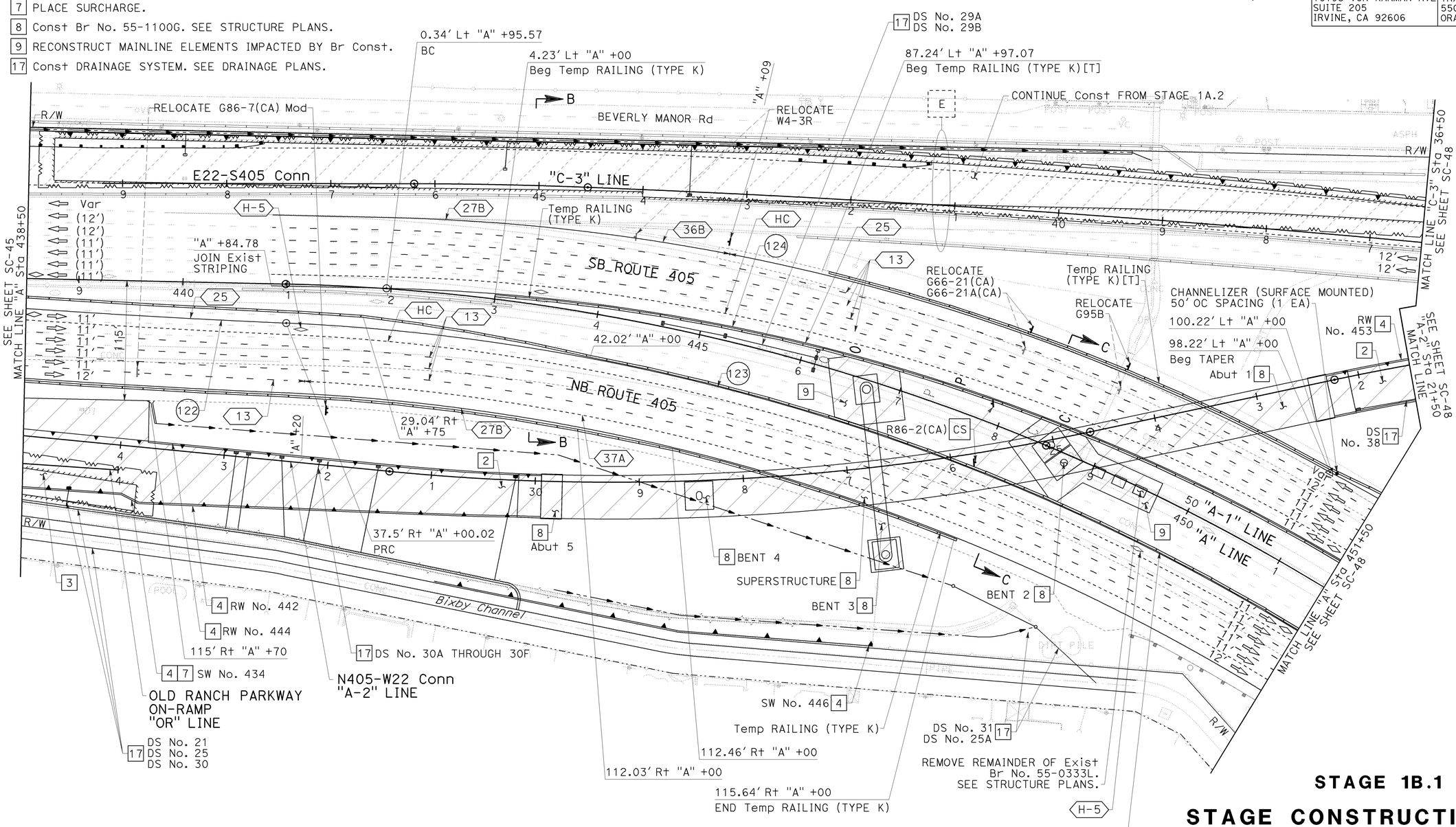
NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. SEE SHEET SC-47 FOR SECTIONS B-B AND C-C.

CONSTRUCTION NOTES THIS SHEET:

2 Const "A-2" LINE.
3 Const REMAINDER OF "OR" LINE.
4 Const WALL. SEE WALL PLANS.
7 PLACE SURCHARGE.
8 Const Br No. 55-1100G. SEE STRUCTURE PLANS.
9 RECONSTRUCT MAINLINE ELEMENTS IMPACTED BY Br Const.
17 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.

CURVE DATA				
No.	R	Δ	T	L
(122)	10,000.00′	01°51′49"	162.64′	325.25′
(123)	2,038.00′	31°12′01"	569.02′	1,109.79′
(124)	1,884.00′	77°01′04"	1,499.08′	2,532.50′



STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-46

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU

REVISED BY: KLA — DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:38
08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmariak
DGN FILE => c07163ma046.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	654	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

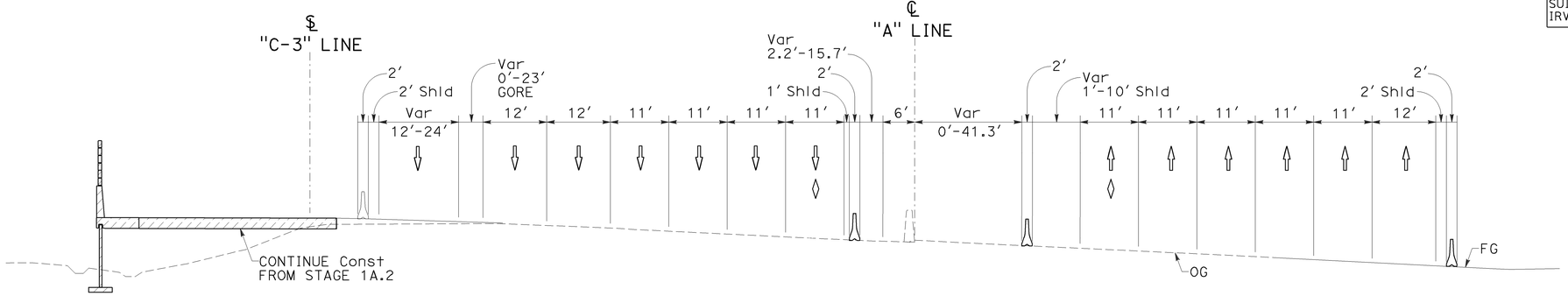
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

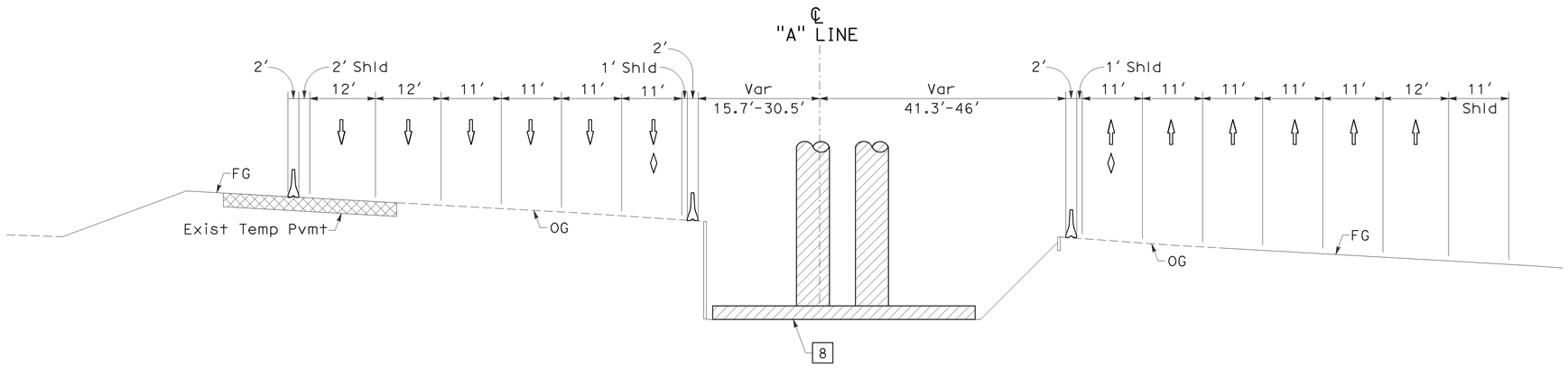
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION NOTE THIS SHEET:

8 Const Br No. 55-1100G. SEE STRUCTURE PLANS.



SECTION B-B



SECTION C-C

STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

NO SCALE

SC-47

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 12:38

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak DGN FILE => c07163ma047.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	655	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

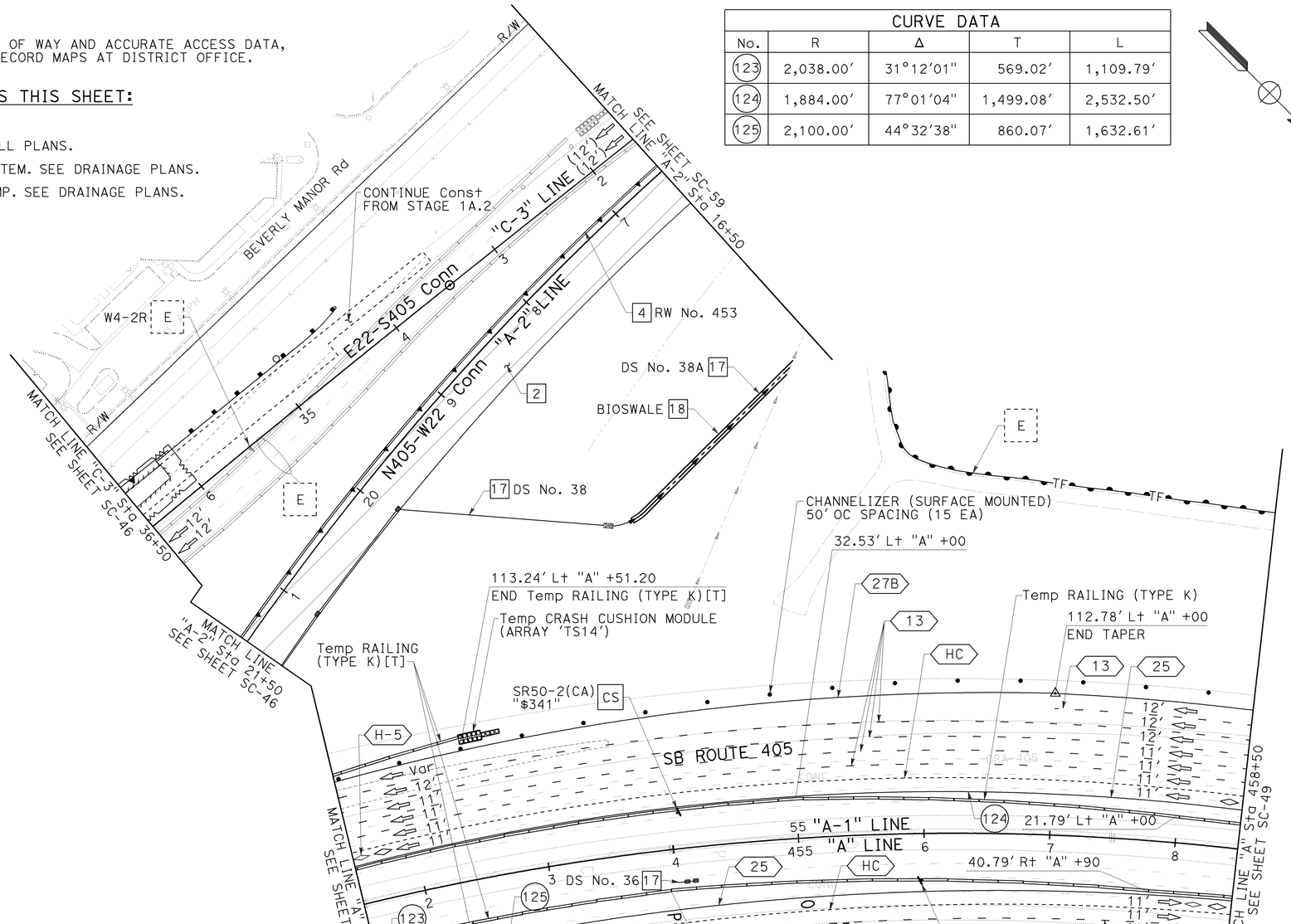
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

2 Const "A-2" LINE.
4 Const WALL. SEE WALL PLANS.
17 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.
18 Const PERMANENT BMP. SEE DRAINAGE PLANS.

CURVE DATA				
No.	R	Δ	T	L
123	2,038.00′	31°12′01"	569.02′	1,109.79′
124	1,884.00′	77°01′04"	1,499.08′	2,532.50′
125	2,100.00′	44°32′38"	860.07′	1,632.61′



STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-48

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED => 03-FEB-2010
08-10-09 | TIME PLOTTED => 12:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	656	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
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.

MTS 16795 VON KARMAN AVE SUITE 205 IRVINE, CA 92606	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 S. MAIN STREET ORANGE, CA 92863-1584

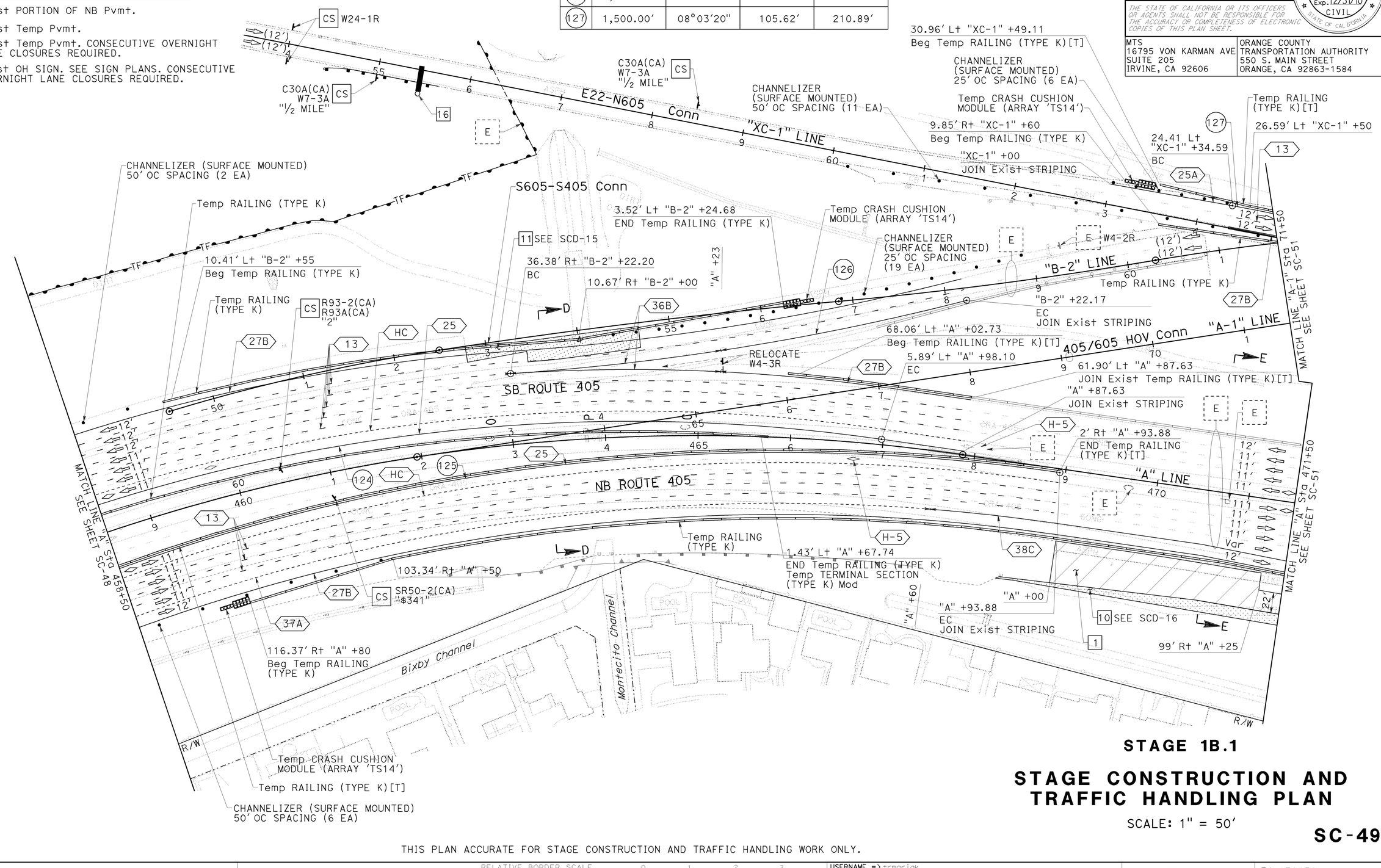
NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. SEE SHEET SC-50 FOR SECTIONS D-D AND E-E.

CONSTRUCTION NOTES THIS SHEET:

1 Const PORTION OF NB Pvmt.
10 Const Temp Pvmt.
11 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.
16 Const OH SIGN. SEE SIGN PLANS. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.

CURVE DATA				
No.	R	Δ	T	L
124	1,884.00′	77°01′04"	1,499.08′	2,532.50′
125	2,100.00′	42°32′38"	860.07′	1,632.61′
126	2,724.00′	10°31′16"	250.81′	500.21′
127	1,500.00′	08°03′20"	105.62′	210.89′



STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-49

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 12:38

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak DGN FILE => c07163ma049.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	657	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

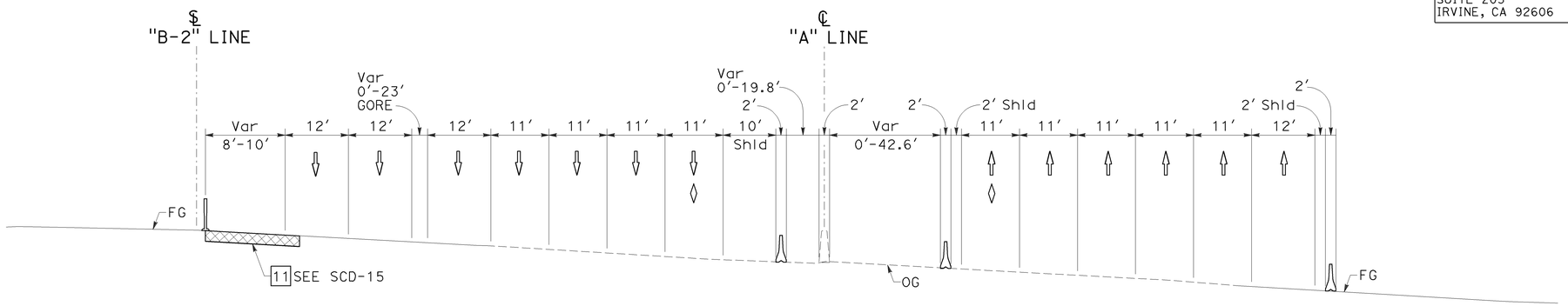
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION NOTES THIS SHEET:

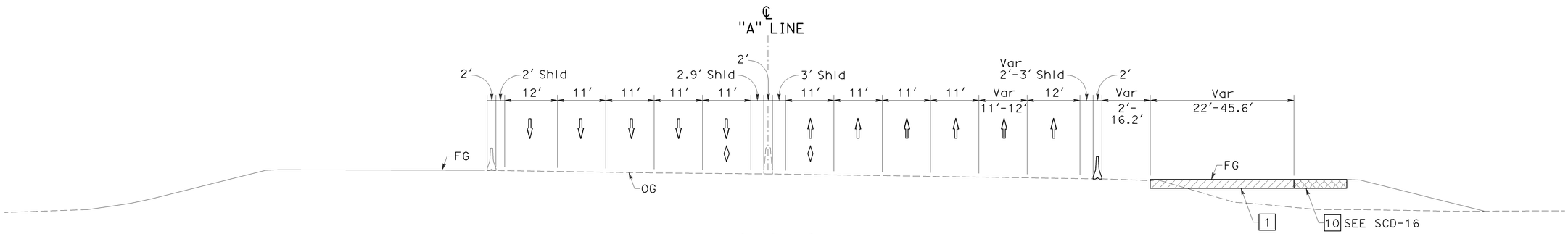
1 Const PORTION OF NB Pvmt.

10 Const Temp Pvmt.

11 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.



SECTION D-D



SECTION E-E

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

NO SCALE

SC-50

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 12:38

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU

REVISED BY	DATE REVISED
KLA	12/22/09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmariak
DGN FILE => c07163ma050.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	658	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTES:

1.. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

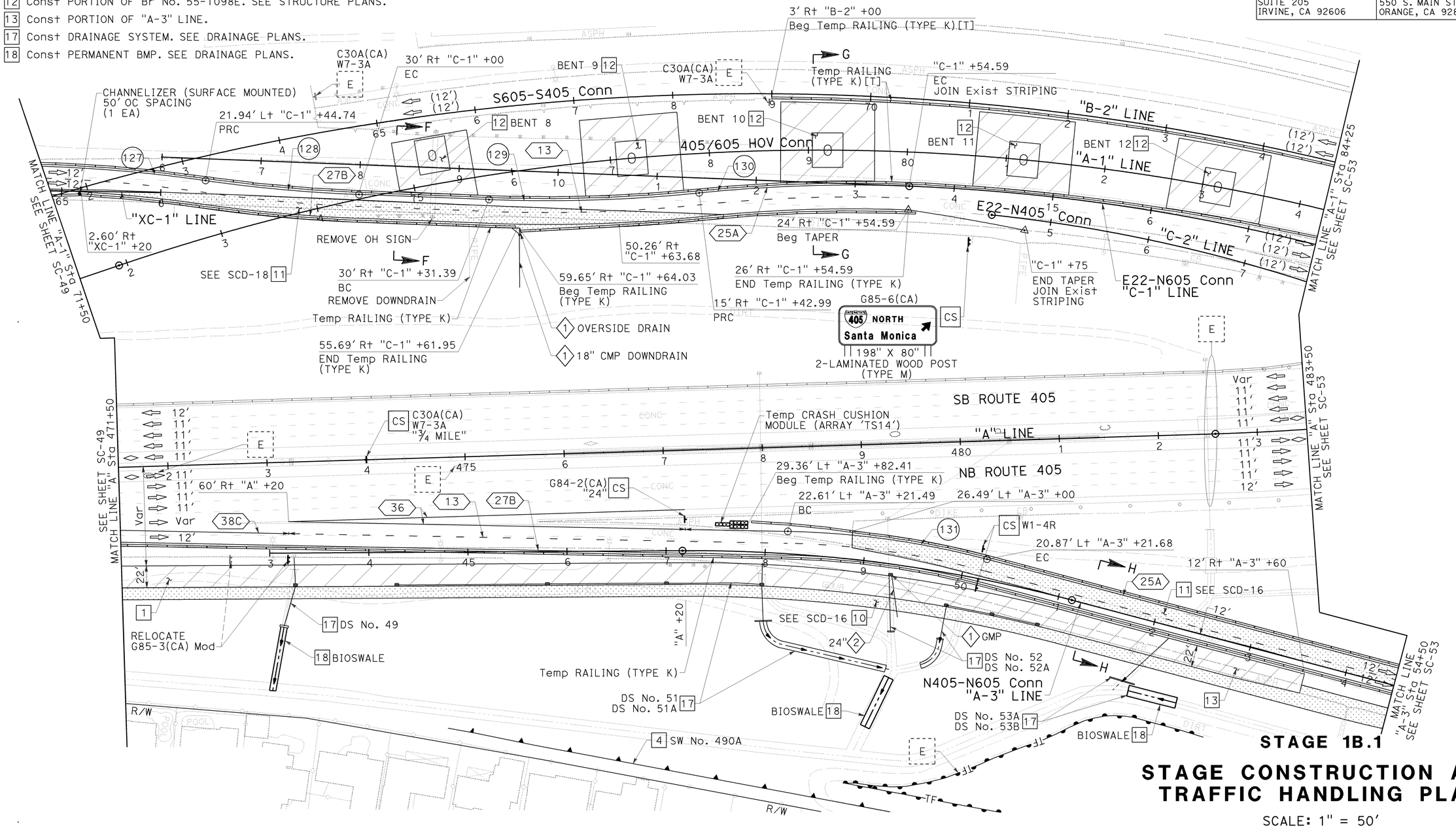
2. SEE SHEET SC-52 FOR SECTIONS F-F, G-G, AND H-H.

CONSTRUCTION NOTES THIS SHEET:

1 Const PORTION OF NB Pvmt.
4 Const WALL. SEE WALL PLANS.
10 Const Temp Pvmt.
11 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.
12 Const PORTION OF Br No. 55-1098E. SEE STRUCTURE PLANS.
13 Const PORTION OF "A-3" LINE.
17 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.
18 Const PERMANENT BMP. SEE DRAINAGE PLANS.

CURVE DATA

No.	R	Δ	T	L
127	1,500.00′	08°03′20"	105.62′	210.89′
128	1,500.00′	05°56′28"	77.84′	155.54′
129	1,500.00′	08°06′35"	106.33′	212.31′
130	1,500.00′	08°06′35"	106.33′	212.31′
131	850.00′	13°42′46"	102.21′	203.43′



STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-51

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
LAST REVISION TIME PLOTTED => 12:39
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak DGN FILE => c07163ma051.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	659	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
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.

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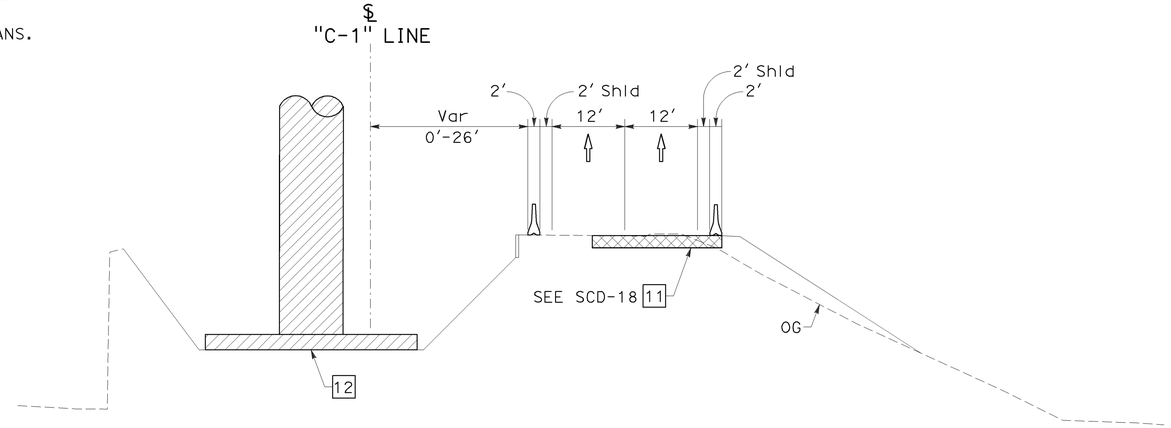
SUITE 205
IRVINE, CA 92606

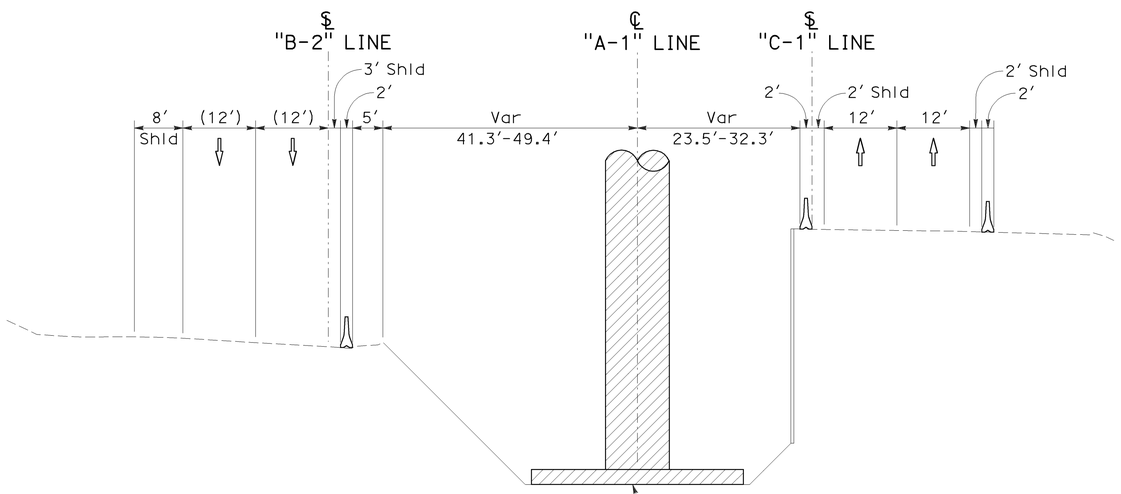
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION NOTES THIS SHEET:

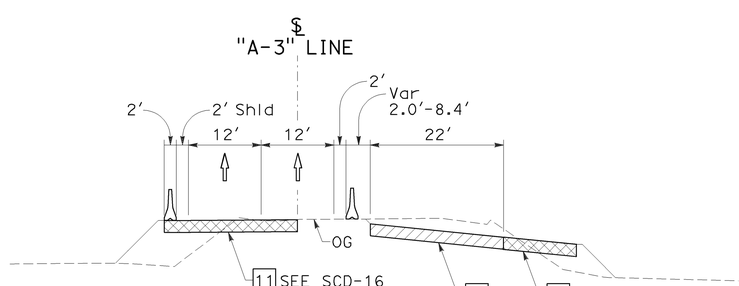
10 Const Temp Pvmt.
11 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.
12 Const PORTION OF Br No. 55-1098E. SEE STRUCTURE PLANS.
13 Const PORTION OF "A-3" LINE.



SECTION F-F



SECTION G-G



SECTION H-H

STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

NO SCALE

SC-52

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
KELSIE ANDERSON	JULIET SU	KLA	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 12:39

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak | DGN FILE => c07163ma052.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	660	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
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.

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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

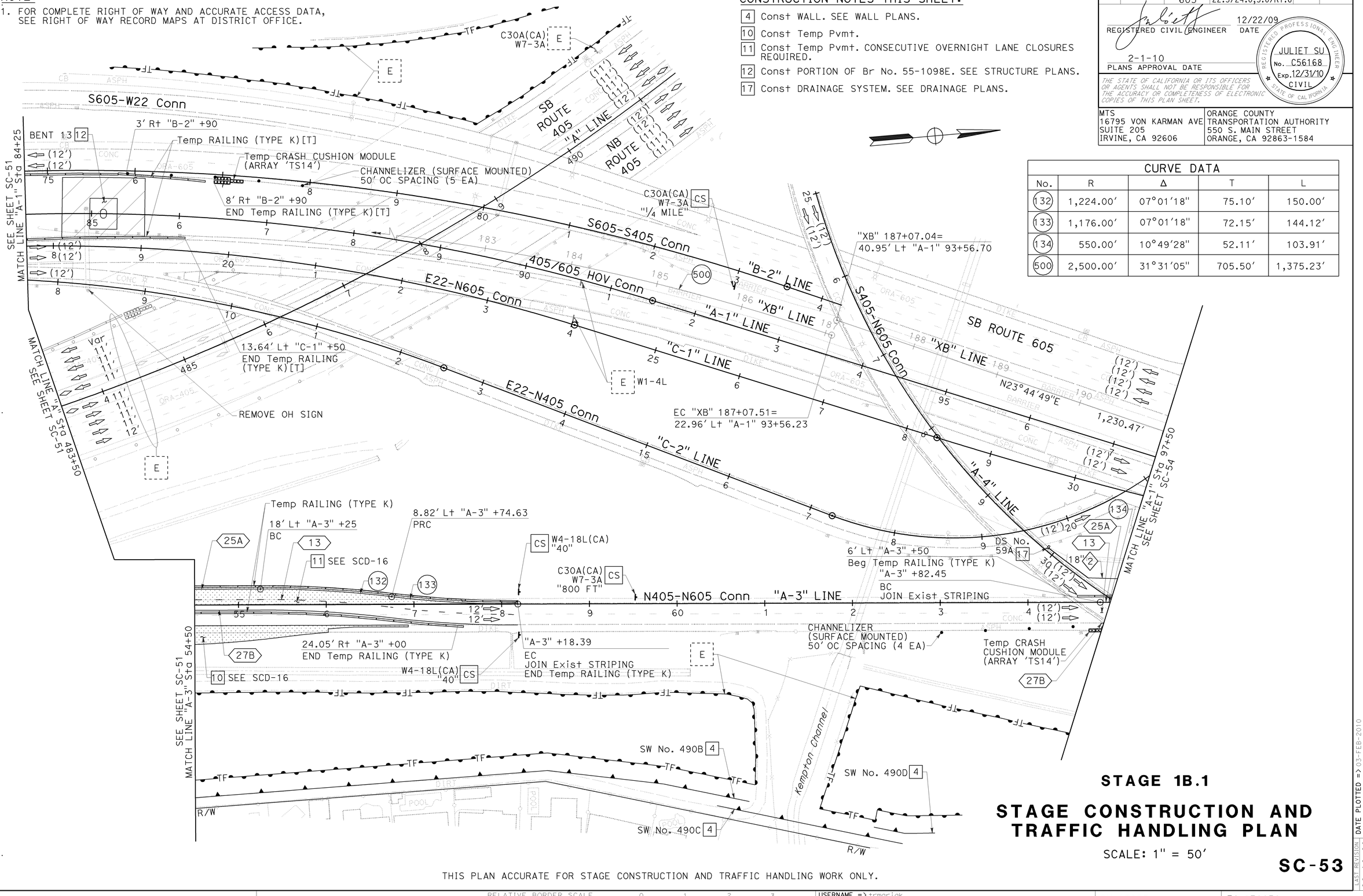
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

4 Const WALL. SEE WALL PLANS.
10 Const Temp Pvmt.
11 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.
12 Const PORTION OF Br No. 55-1098E. SEE STRUCTURE PLANS.
17 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.

CURVE DATA				
No.	R	Δ	T	L
132	1,224.00′	07°01′18"	75.10′	150.00′
133	1,176.00′	07°01′18"	72.15′	144.12′
134	550.00′	10°49′28"	52.11′	103.91′
500	2,500.00′	31°31′05"	705.50′	1,375.23′



STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-53

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:39

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak | DGN FILE => c07163ma053.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	661	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

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SUITE 205
IRVINE, CA 92606

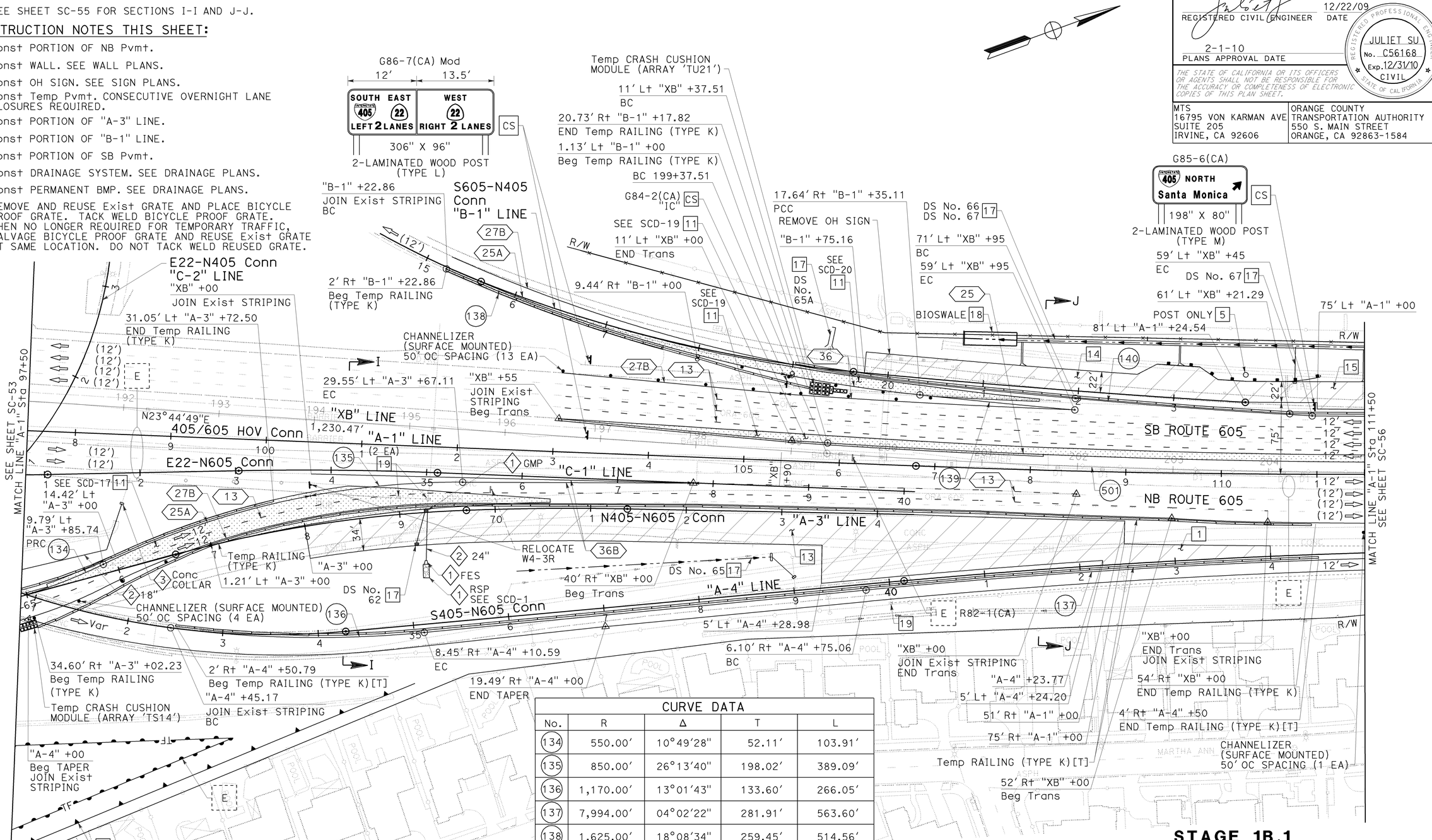
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. SEE SHEET SC-55 FOR SECTIONS I-I AND J-J.

CONSTRUCTION NOTES THIS SHEET:

1 Const PORTION OF NB Pvmt.
4 Const WALL. SEE WALL PLANS.
5 Const OH SIGN. SEE SIGN PLANS.
11 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.
13 Const PORTION OF "A-3" LINE.
14 Const PORTION OF "B-1" LINE.
15 Const PORTION OF SB Pvmt.
17 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.
18 Const PERMANENT BMP. SEE DRAINAGE PLANS.
19 REMOVE AND REUSE Exist GRATE AND PLACE BICYCLE PROOF GRATE. TACK WELD BICYCLE PROOF GRATE. WHEN NO LONGER REQUIRED FOR TEMPORARY TRAFFIC, SALVAGE BICYCLE PROOF GRATE AND REUSE Exist GRATE AT SAME LOCATION. DO NOT TACK WELD REUSED GRATE.



CURVE DATA				
No.	R	Δ	T	L
134	550.00'	10°49'28"	52.11'	103.91'
135	850.00'	26°13'40"	198.02'	389.09'
136	1,170.00'	13°01'43"	133.60'	266.05'
137	7,994.00'	04°02'22"	281.91'	563.60'
138	1,625.00'	18°08'34"	259.45'	514.56'
139	9,441.00'	00°59'19"	81.45'	162.90'
140	6,294.00'	02°15'47"	124.31'	248.59'
501	9,500.00'	03°09'00"	510.34'	1,019.71'

STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-54

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:39
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmarlak DGN FILE => c07163ma054.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	662	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

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16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

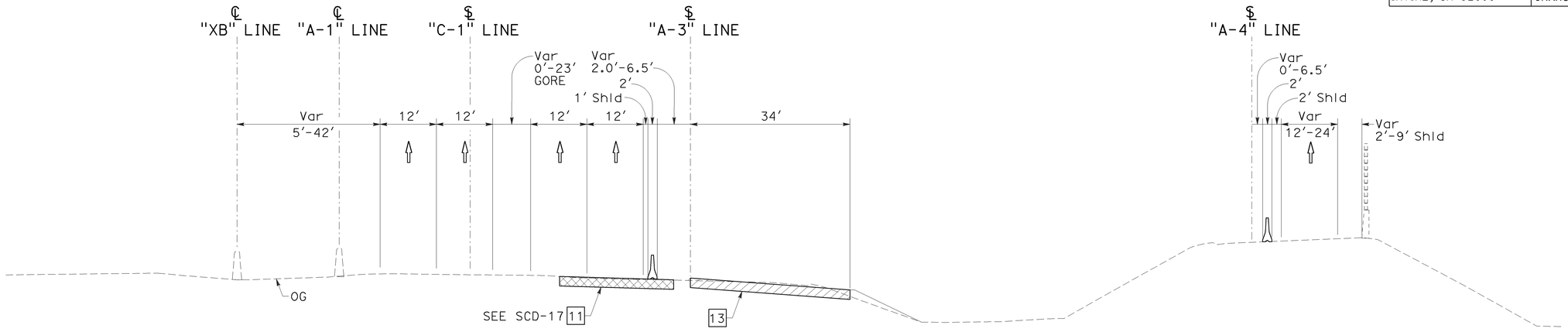
CONSTRUCTION NOTES THIS SHEET:

1 Const PORTION OF NB Pvmt.

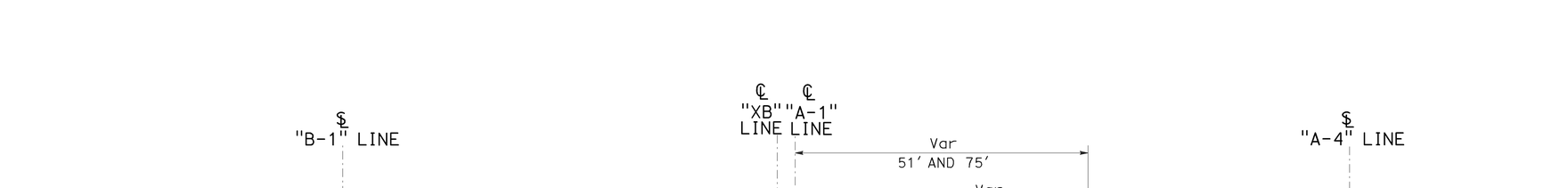
11 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.

13 Const PORTION OF "A-3" LINE.

14 Const PORTION OF "B-1" LINE.



SECTION I-I



SECTION J-J

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

NO SCALE

SC-55

REVISED BY	DATE REVISED
KLA	12/22/09

KELSIE ANDERSON — CALCULATED-DESIGNED BY
JULIET SU — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 12:39

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak | DGN FILE => c07163ma055.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	663	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

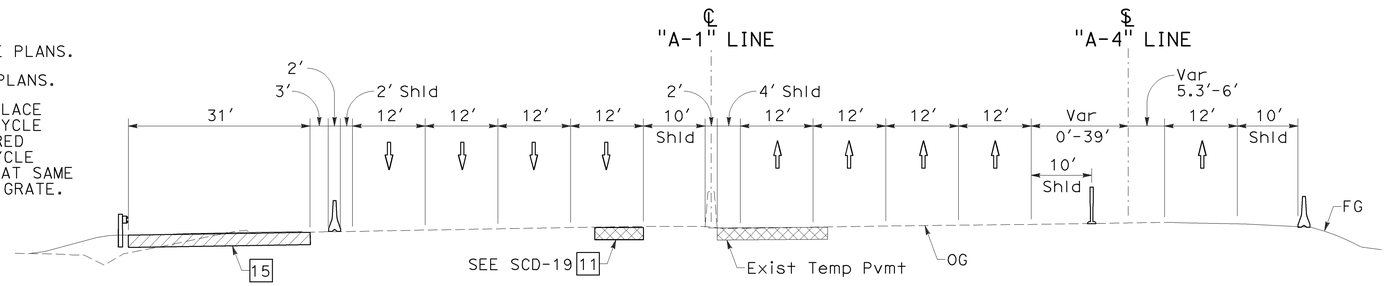
11 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.

15 Const PORTION OF SB Pvmt.

17 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.

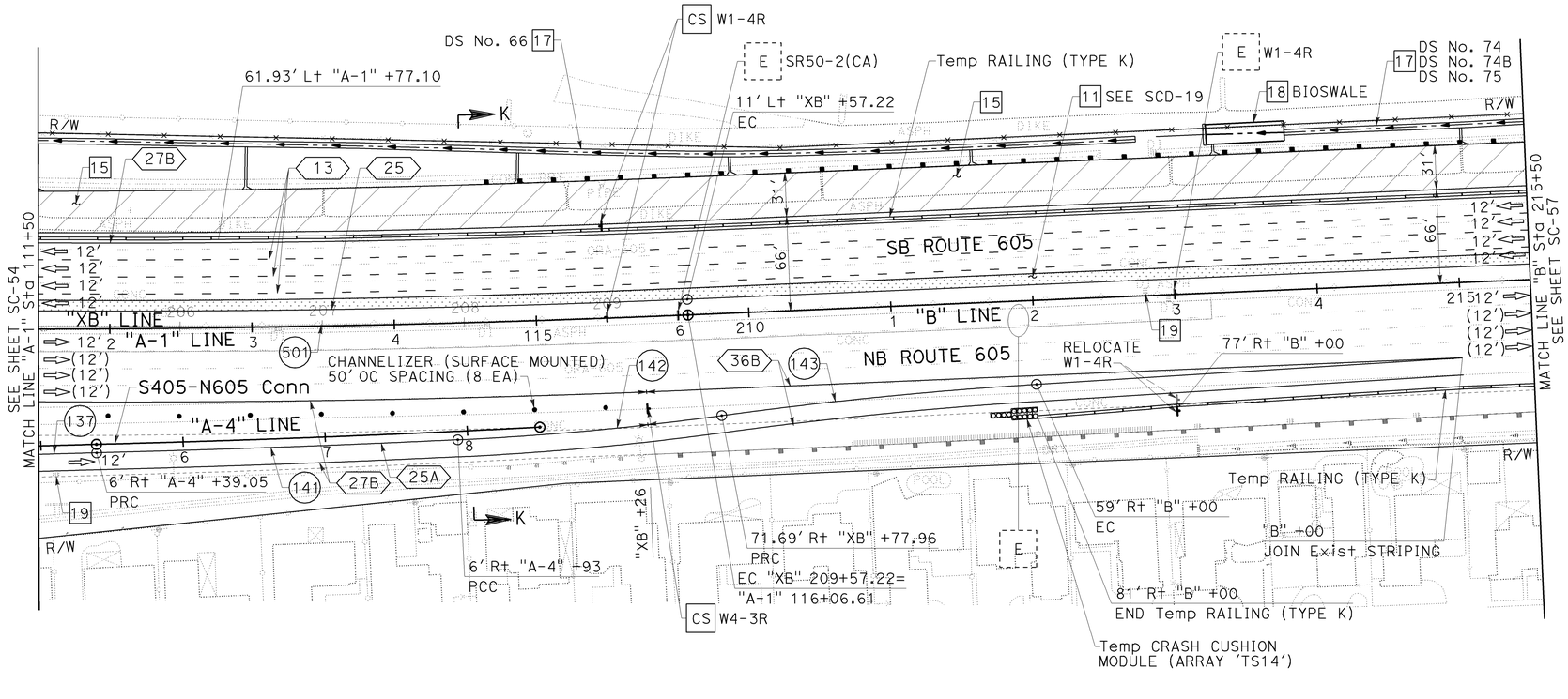
18 Const PERMANENT BMP. SEE DRAINAGE PLANS.

19 REMOVE AND REUSE Exist GRATE AND PLACE BICYCLE PROOF GRATE. TACK WELD BICYCLE PROOF GRATE. WHEN NO LONGER REQUIRED FOR TEMPORARY TRAFFIC, SALVAGE BICYCLE PROOF GRATE AND REUSE Exist GRATE AT SAME LOCATION. DO NOT TACK WELD REUSED GRATE.



SECTION K-K
NO SCALE

CURVE DATA				
No.	R	Δ	T	L
137	7,994.00′	04°02′22"	281.91′	563.60′
141	11,431.00′	01°16′25"	127.05′	254.08′
142	2,100.00′	05°05′08"	93.26′	186.40′
143	3,000.00′	04°14′55"	111.28′	222.46′
501	9,500.00′	06°09′00"	510.34′	1,019.71′



STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-56

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
KELSIE ANDERSON	JULIET SU	KLA	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:39
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak DGN FILE => c07163ma056.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	664	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

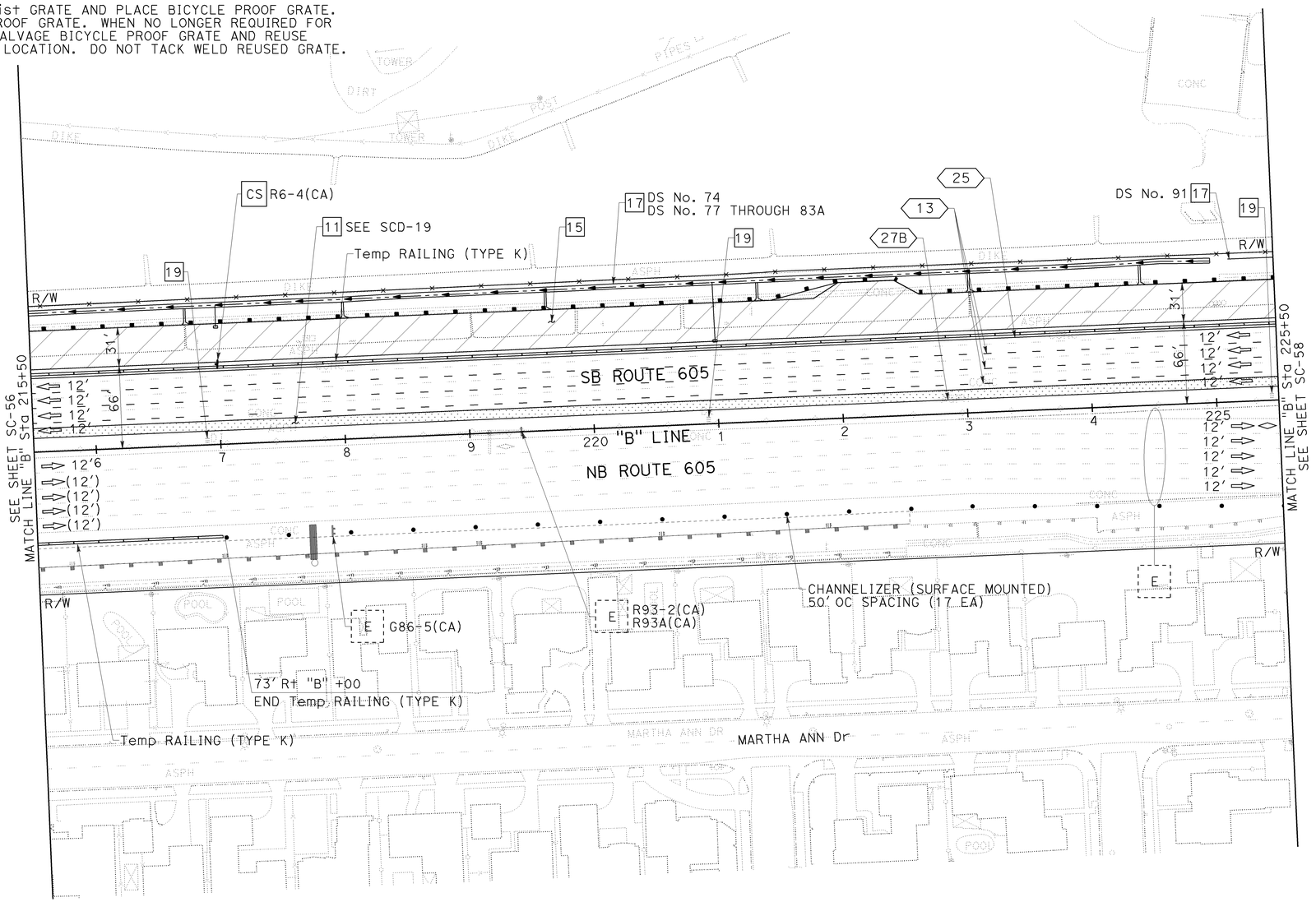
CONSTRUCTION NOTES THIS SHEET:

11 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.

15 Const PORTION OF SB Pvmt.

17 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.

19 REMOVE AND REUSE Exist GRATE AND PLACE BICYCLE PROOF GRATE. TACK WELD BICYCLE PROOF GRATE. WHEN NO LONGER REQUIRED FOR TEMPORARY TRAFFIC, SALVAGE BICYCLE PROOF GRATE AND REUSE Exist GRATE AT SAME LOCATION. DO NOT TACK WELD REUSED GRATE.



STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-57

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA — DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:39
08-10-09

BORDER LAST REVISED 8/1/2008 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmariak
DGN FILE => c07163ma057.dgn

CU 12235 — EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	665	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

JULIET SU
No. C56168
Exp.12/31/10
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.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

5 Const OH SIGN. SEE SIGN PLANS.

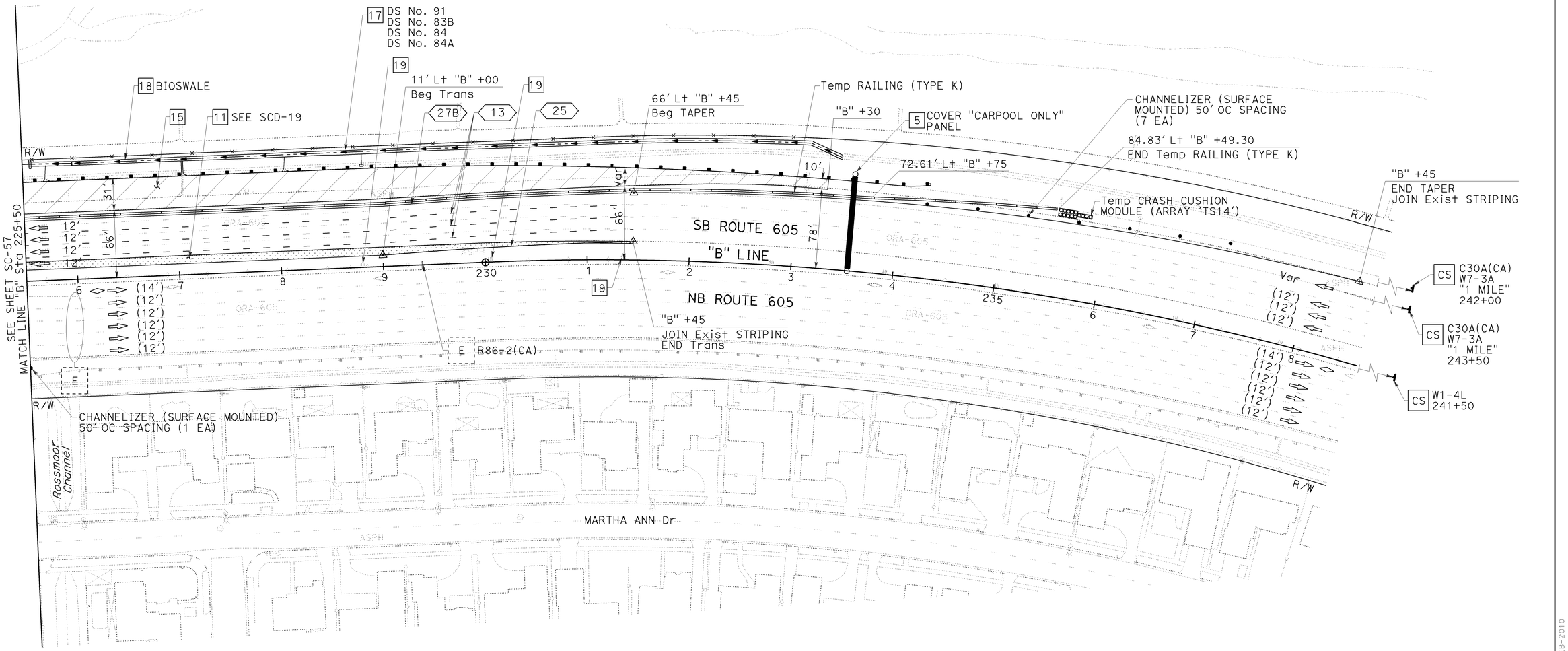
11 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.

15 Const PORTION OF SB Pvmt.

17 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.

18 Const PERMANENT BMP. SEE DRAINAGE PLANS.

19 REMOVE AND REUSE Exist GRATE AND PLACE BICYCLE PROOF GRATE. TACK WELD BICYCLE PROOF GRATE. WHEN NO LONGER REQUIRED FOR TEMPORARY TRAFFIC, SALVAGE BICYCLE PROOF GRATE AND REUSE Exist GRATE AT SAME LOCATION. DO NOT TACK WELD REUSED GRATE.



STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-58

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION DATE PLOTTED => 03-FEB-2010
LAST REVISION TIME PLOTTED => 12:40
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak DGN FILE => c07163ma058.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	666	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

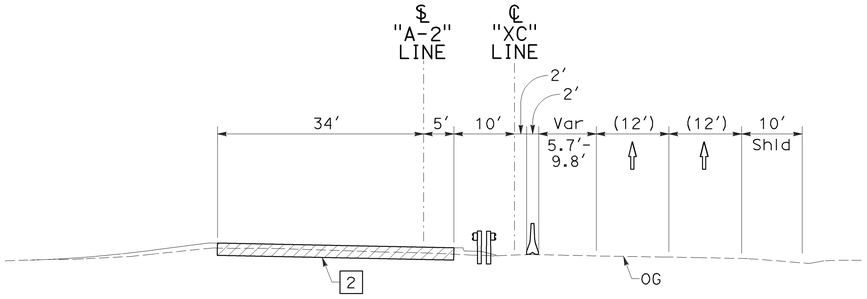
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

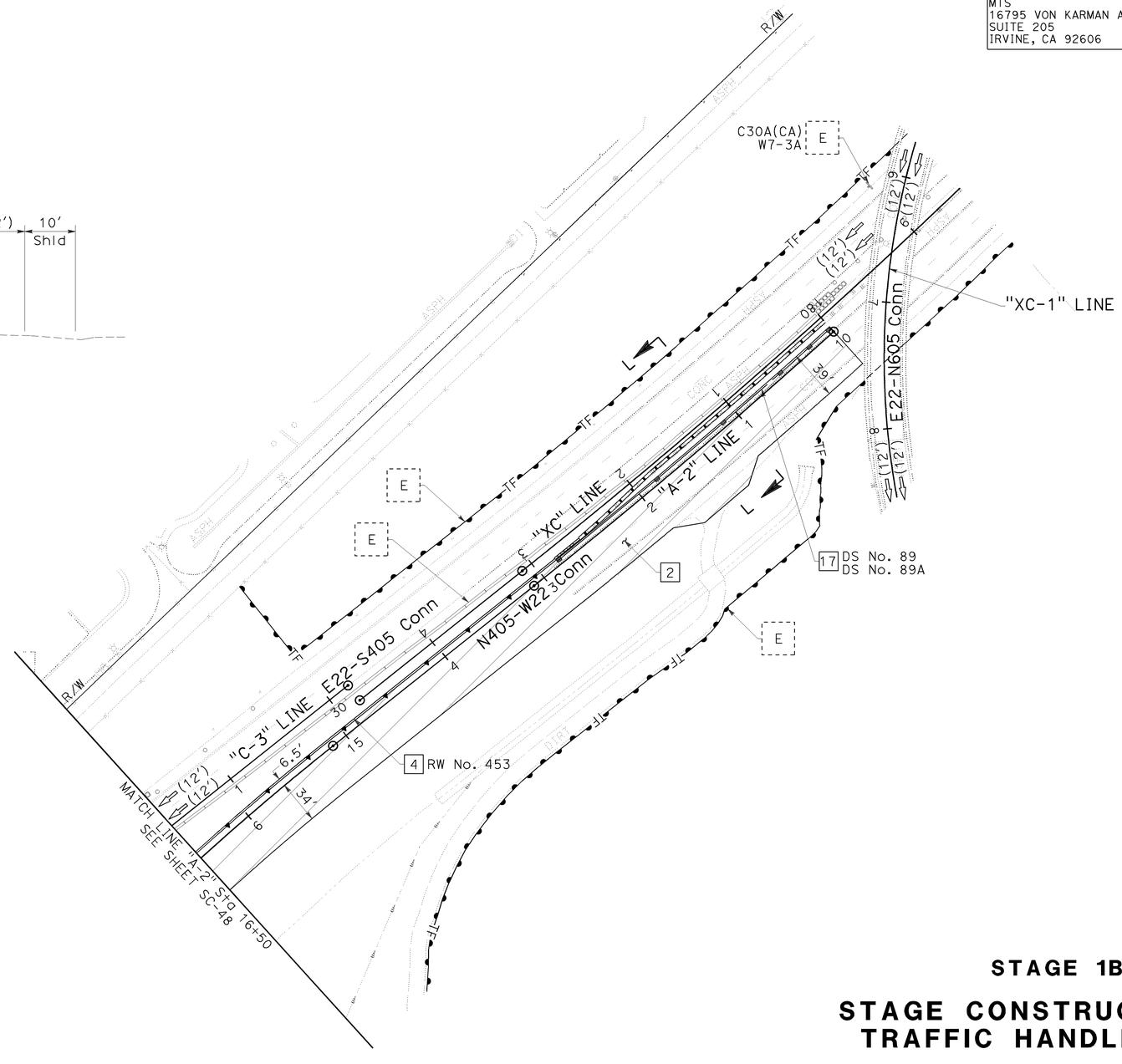
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

2 Const "A-2" LINE.
4 Const WALL. SEE WALL PLANS.
17 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.



SECTION L-L
NO SCALE



STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-59

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

KELSIE ANDERSON
JULIET SU

CALCULATED-DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR
LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 12:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	667	1929

REGISTERED CIVIL ENGINEER 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JULIET SU No. C56168 Exp. 12/31/10 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.

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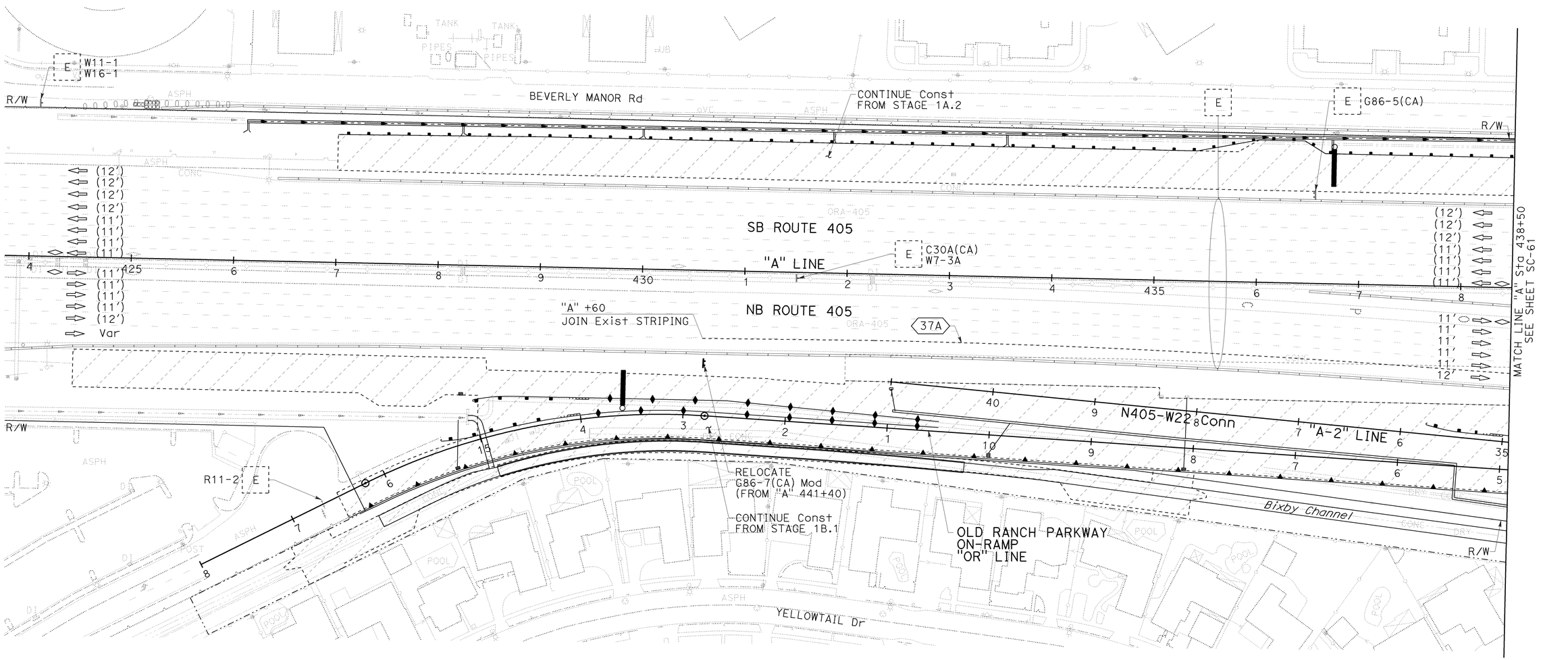
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



STAGE 1B.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-60

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION 08-10-09
DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:40

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmariak
DGN FILE => c07163ma060.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	668	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

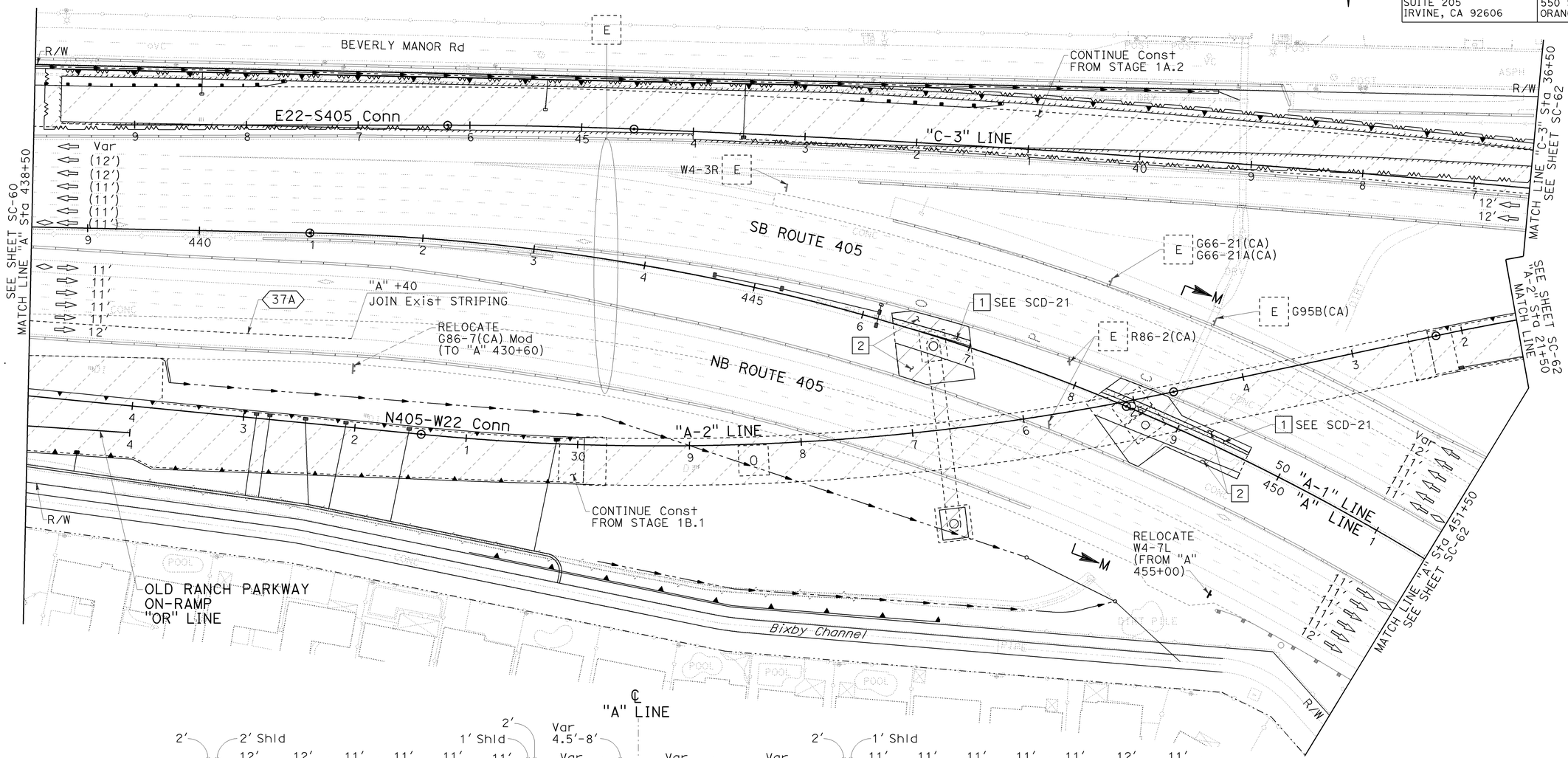
NOTE:

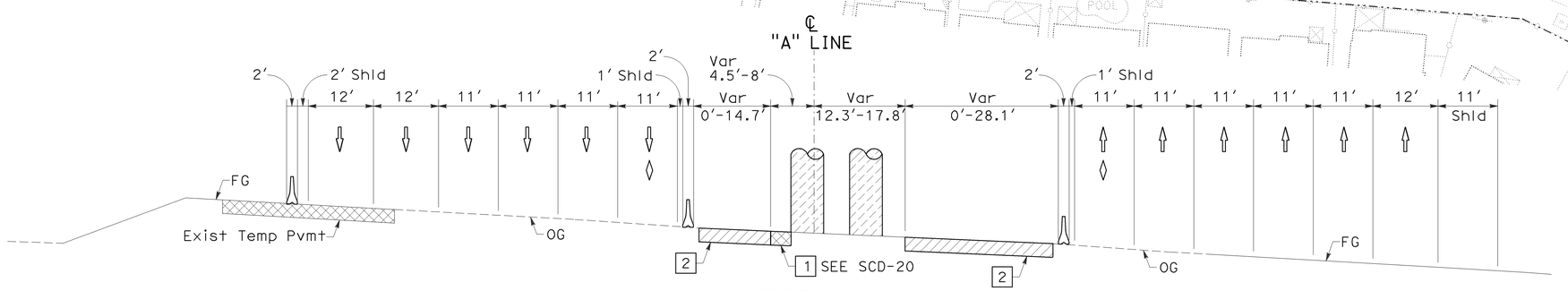
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

1 Const Temp Pvmt.

2 RECONSTRUCT MAINLINE ELEMENTS IMPACTED BY BRIDGE Const.





SECTION M-M
NO SCALE

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1B.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLANS

SCALE: 1" = 50′

SC-61

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY	CHECKED BY
KELSIE ANDERSON	JULIET SU

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 12:40

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak | DGN FILE => c07163ma061.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	669	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

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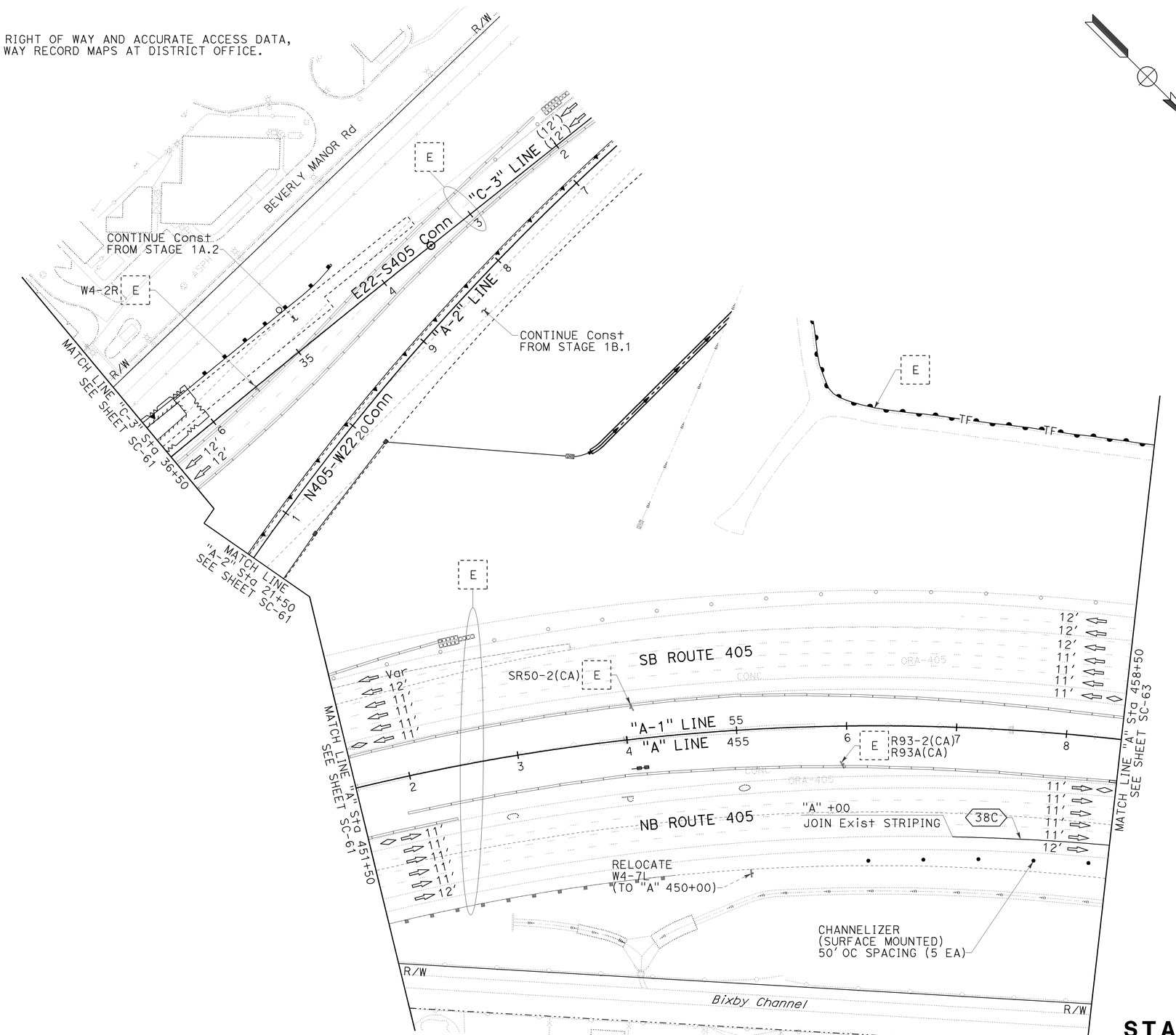
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



STAGE 1B.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-62

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY
Caltrans	LEONARD SEQUEIRA	CHECKED BY	DATE REVISED
		KELSIE ANDERSON	KLA
		JULIET SU	12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 12:40

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak DGN FILE => c07163ma062.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	670	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

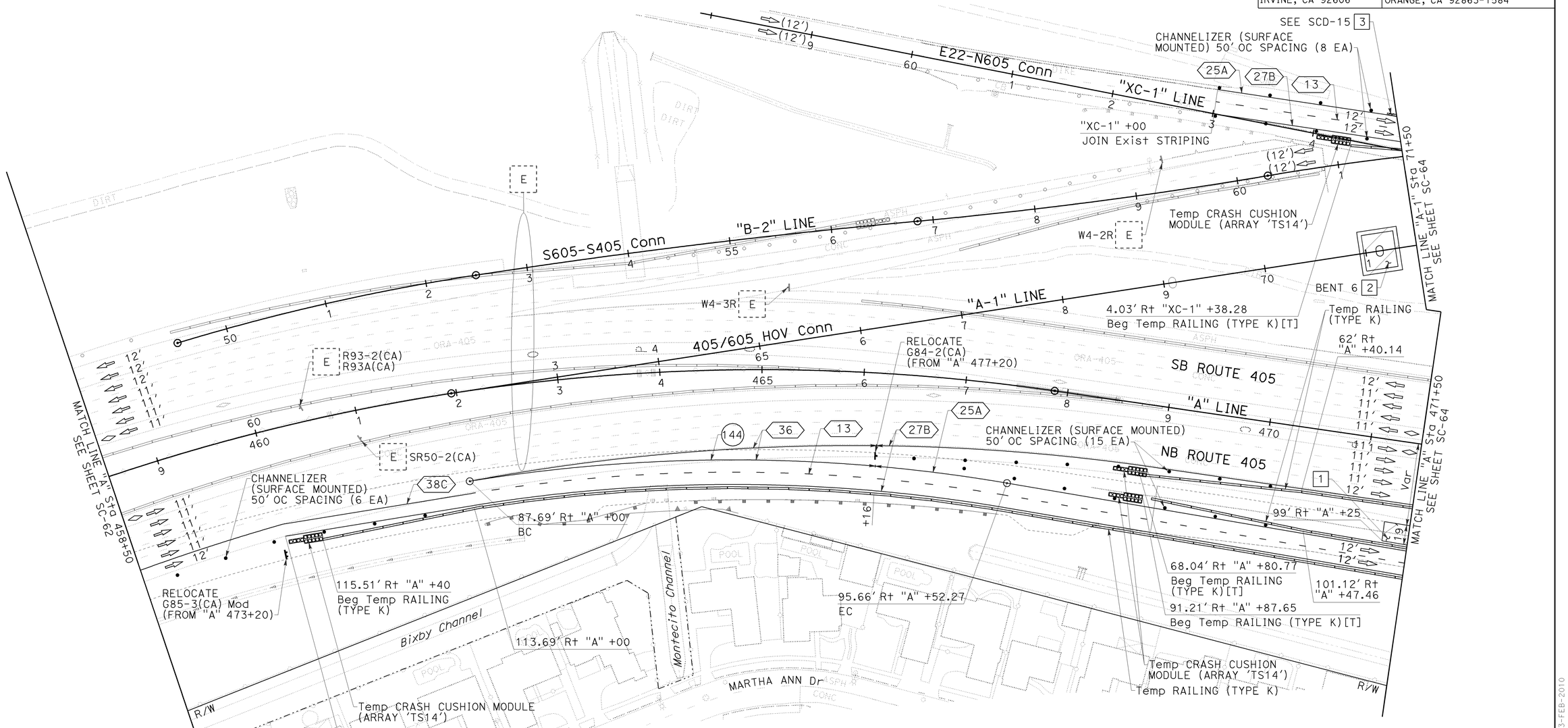
CONSTRUCTION NOTES THIS SHEET:

1 Const PORTION OF NB Pvmt.

2 Const PORTION OF Br No. 1098E. SEE STRUCTURE PLANS.

3 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.

CURVE DATA				
No.	R	Δ	T	L
(144)	1,600.00′	18°53′53"	266.28′	527.73′



STAGE 1B.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-63

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
KELSIE ANDERSON	JULIET SU	KLA	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION: DATE PLOTTED => 03-FEB-2010 08-10-09 TIME PLOTTED => 12:40

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak DGN FILE => c07163ma063.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	671	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

MTS 16795 VON KARMAN AVE SUITE 205 IRVINE, CA 92606	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 S. MAIN STREET ORANGE, CA 92863-1584

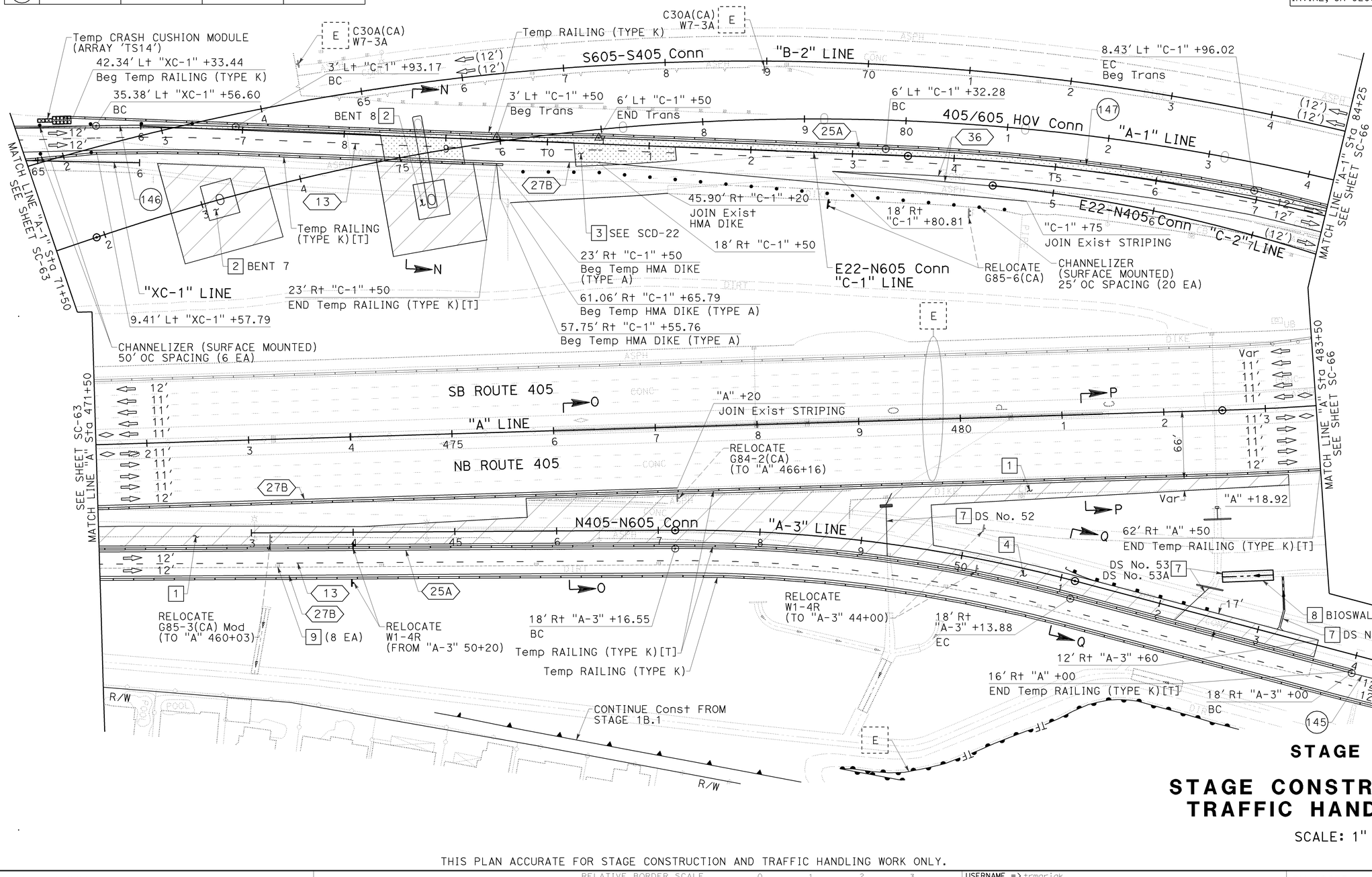
NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. SEE SHEET SC-65 FOR SECTIONS N-N, O-O, P-P, AND Q-Q.

CURVE DATA				
No.	R	Δ	T	L
(145)	1,200.00′	07°01′18"	73.62′	147.06′
(146)	2,100.00′	03°44′52"	68.21′	137.36′
(147)	2,482.00′	08°25′19"	182.74′	364.83′

CONSTRUCTION NOTES THIS SHEET:

1 Const PORTION OF NB Pvmt.
2 Const PORTION OF Br No. 55-1098E. SEE STRUCTURE PLANS.
3 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.
4 Const PORTION OF "A-3" LINE.
7 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.
8 Const PERMANENT BMP. SEE DRAINAGE PLANS.
9 REMOVE AND REUSE Exist GRATE AND PLACE BICYCLE PROOF GRATE. TACK WELD BICYCLE PROOF GRATE. WHEN NO LONGER REQUIRED FOR TEMPORARY TRAFFIC, SALVAGE BICYCLE PROOF GRATE AND REUSE Exist GRATE AT SAME LOCATION. DO NOT TACK WELD REUSED GRATE.



STAGE 1B.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-64

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON

CHECKED BY: JULIET SU

REVISED BY: KLA — DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:40

BORDER LAST REVISED 8/1/2008 — RELATIVE BORDER SCALE IS IN INCHES (0 1 2 3)

USERNAME => trmariak
DGN FILE => c07163ma064.dgn

CU 12235 — EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	672	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

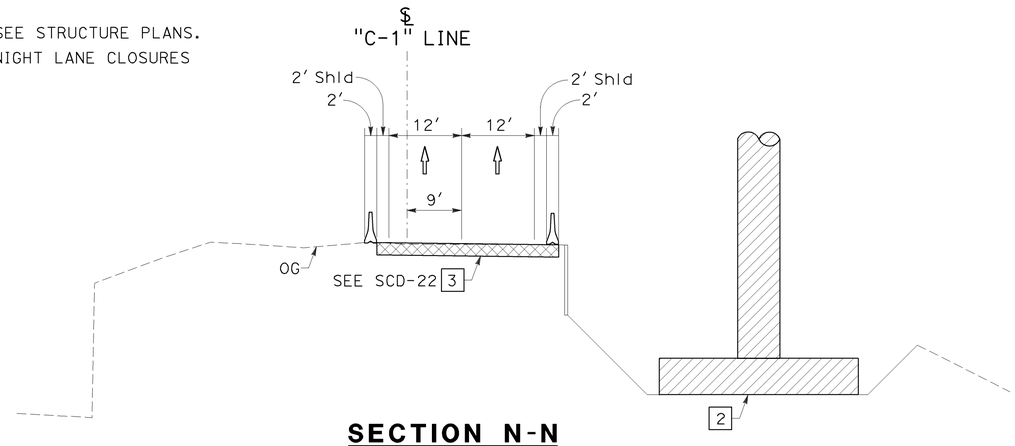
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

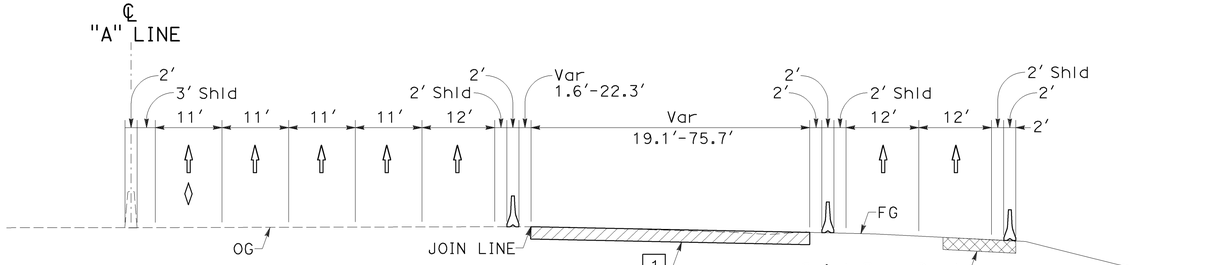
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION NOTES THIS SHEET:

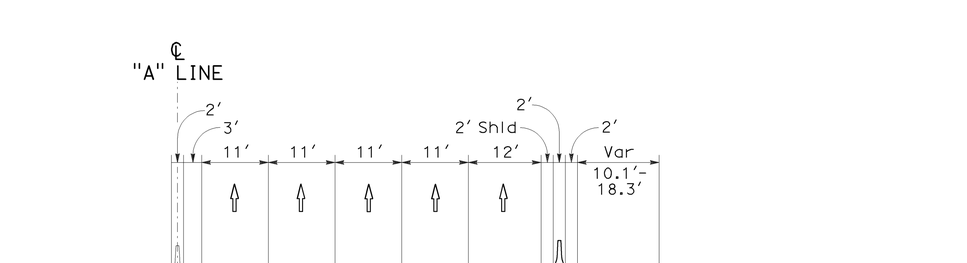
1 Const PORTION OF NB Pvmt.
2 Const PORTION OF Br No. 55-1098E. SEE STRUCTURE PLANS.
3 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.
4 Const PORTION OF "A-3" LINE.



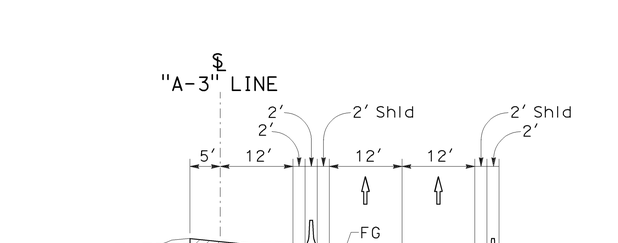
SECTION N-N



SECTION O-O



SECTION P-P



SECTION Q-Q

STAGE 1B.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

NO SCALE

SC-65

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY: KLA
DATE REVISED: 12/22/09
KELSIE ANDERSON
JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR
LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:40
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmariak
DGN FILE => c07163ma065.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	673	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

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16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

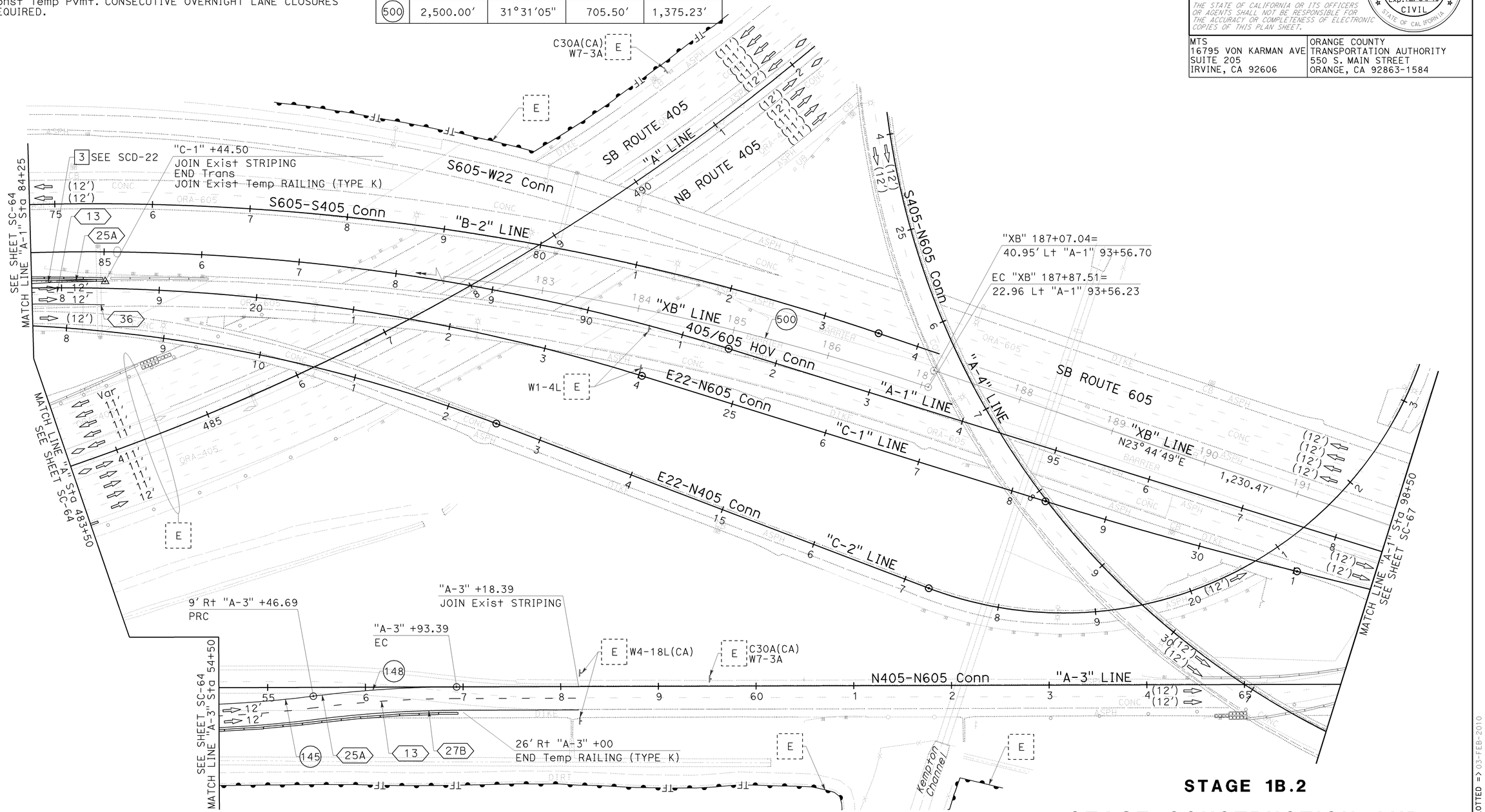
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CURVE DATA				
No.	R	Δ	T	L
145	1,200.00′	07°01′18"	73.62′	147.06′
148	1,200.00′	07°01′18"	73.62′	147.06′
500	2,500.00′	31°31′05"	705.50′	1,375.23′

CONSTRUCTION NOTE THIS SHEET:

3 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.



STAGE 1B.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-66

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 12:41

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmariak
DGN FILE => c07163ma066.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	674	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

JULIET SU No. C56168 Exp.12/31/10 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.

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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

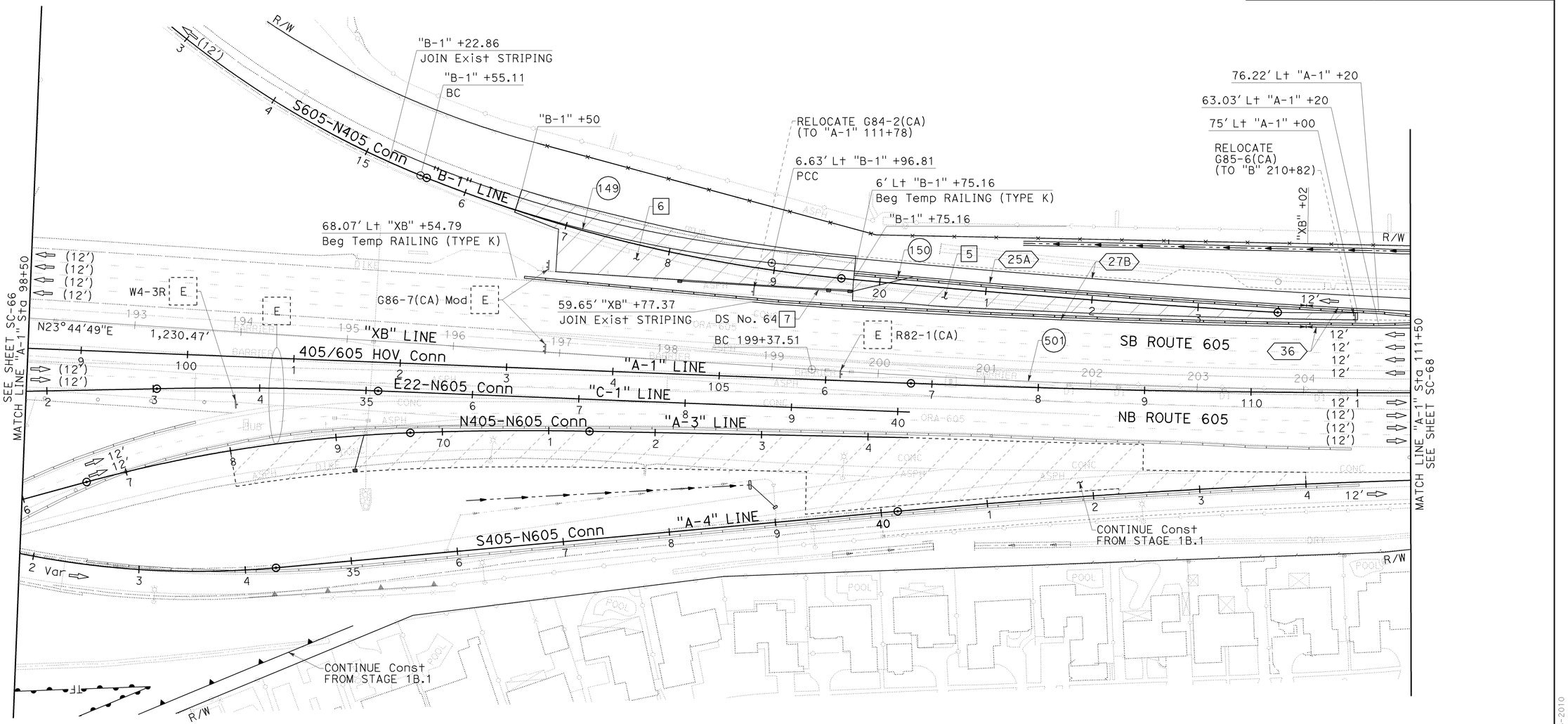
CONSTRUCTION NOTES THIS SHEET:

5 Const PORTION OF SB Pvmt.

6 Const REMAINDER OF "B-1" LINE. CONSECUTIVE OVERNIGHT RAMP CLOSURES REQUIRED.

7 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.

CURVE DATA				
No.	R	Δ	T	L
149	1,200.00′	16°17′43"	171.80′	341.29′
150	11,320.00′	04°48′51"	475.86′	951.16′
501	9,500.00′	03°09′00"	510.34′	1,019.71′



STAGE 1B.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-67

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

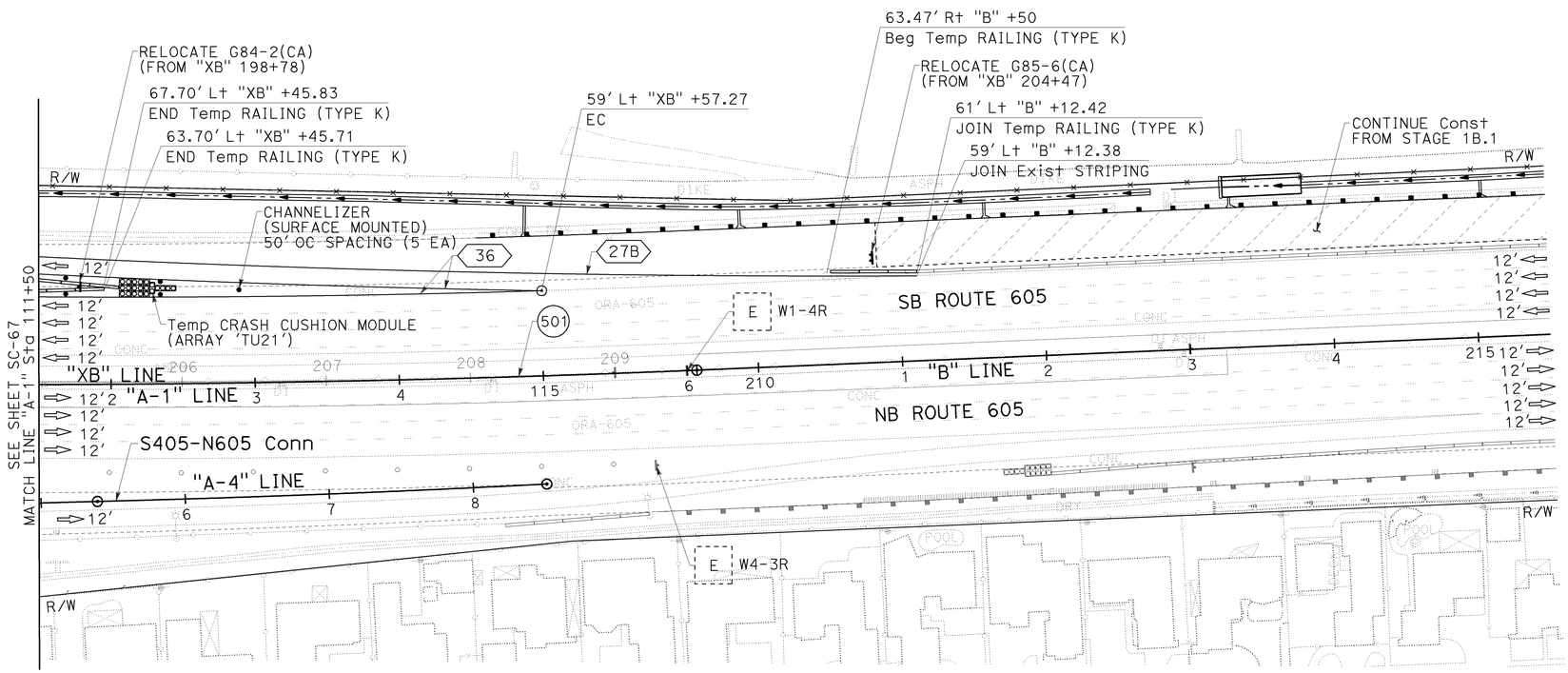
LAST REVISION | DATE PLOTTED => 03-FEB-2010
08-10-09 | TIME PLOTTED => 12:41

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak DGN FILE => c07163ma067.dgn | CU 12235 | EA 071631

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CURVE DATA				
No.	R	Δ	T	L
(501)	9,500.00′	03°09′00"	510.34′	1,019.71′



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STAGE 1B.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-68

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	675	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 12:41

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak DGN FILE => c07163ma068.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	676	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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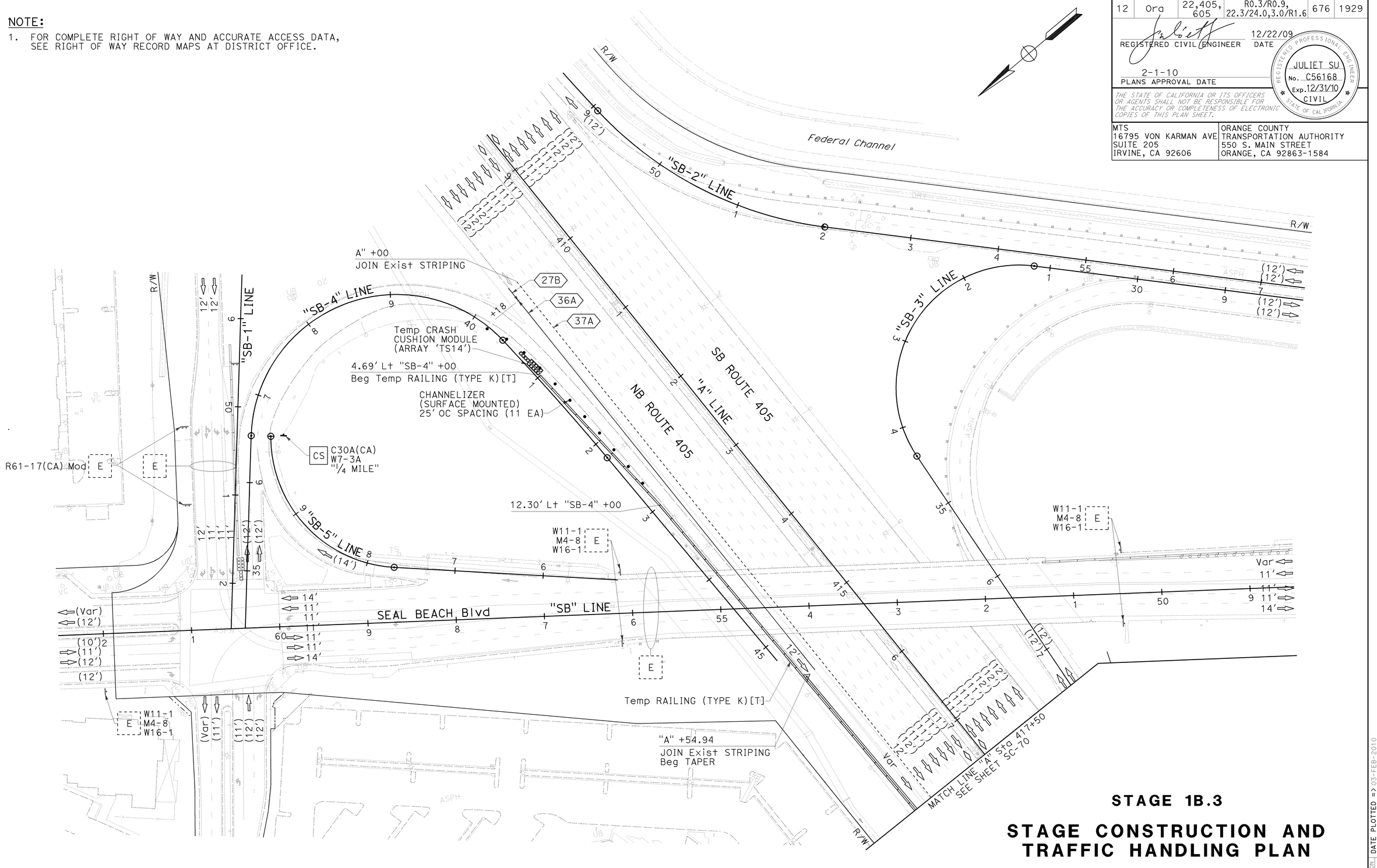
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



STAGE 1B.3

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-69

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION | DATE PLOTTED => 03-FEB-2010
08-10-09 | TIME PLOTTED => 12:41

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak | DGN FILE => c07163ma069.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	677	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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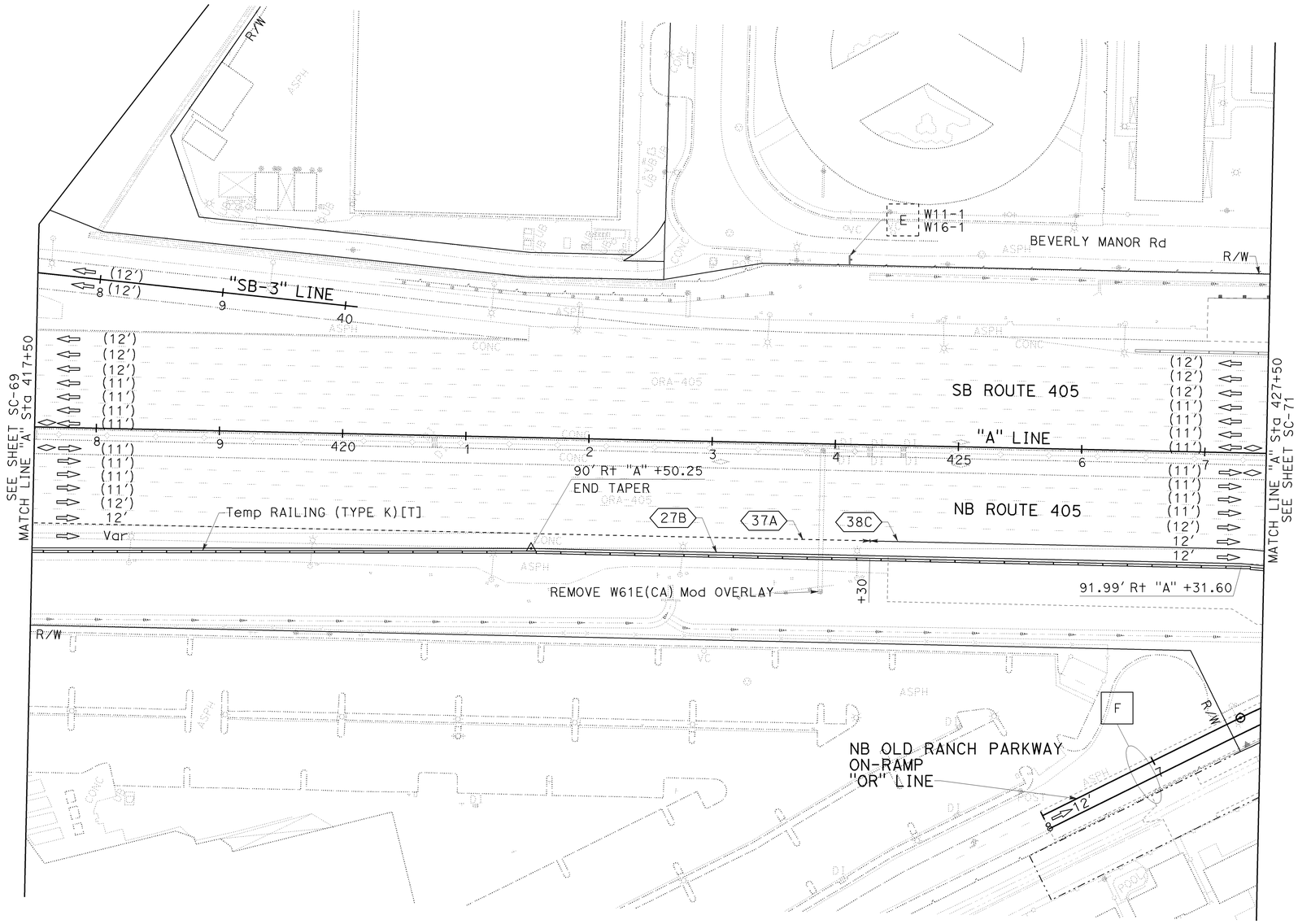
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1B.3

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-70

CALCULATED-DESIGNED BY	KELSIE ANDERSON	REVISED BY	KLA
CHECKED BY	JULIET SU	DATE REVISED	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION: DATE PLOTTED => 03-FEB-2010 08-10-09 TIME PLOTTED => 12:41

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak DGN FILE => c07163ma070.dgn | CU 12235 | EA 071631

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	678	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU — No. C56168 — Exp.12/31/10 — 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.

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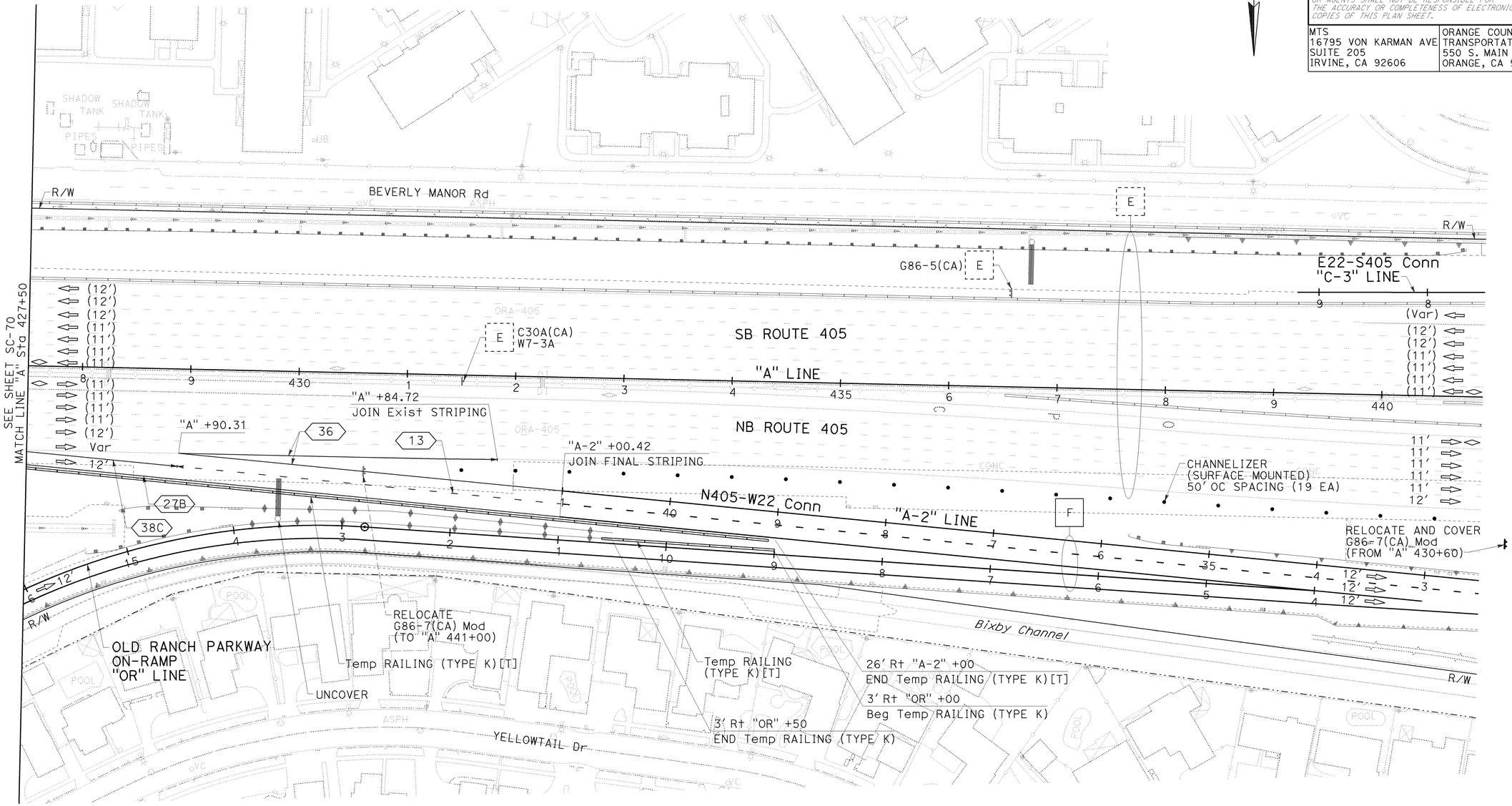
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584



STAGE 1B.3

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-71

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY: KLA | DATE REVISED: 12/22/09
KELSIE ANDERSON | JULIET SU
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 12:41
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak | DGN FILE => c07163ma071.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	679	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

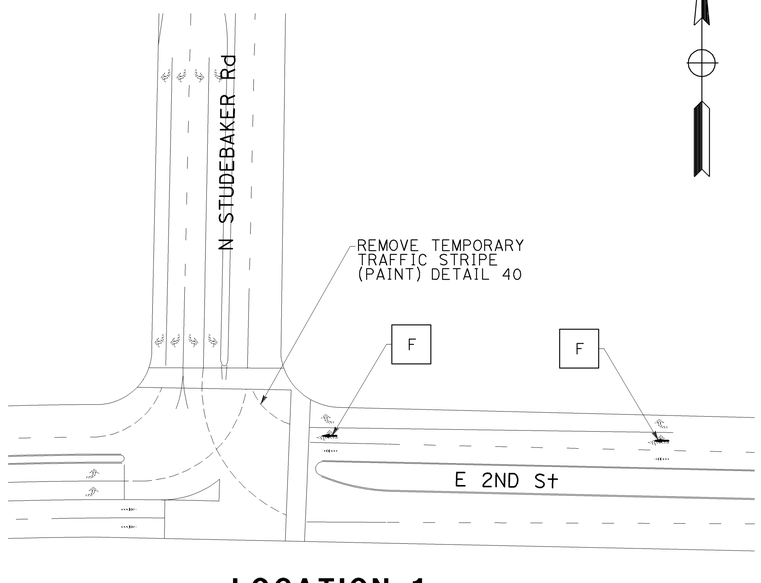
2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

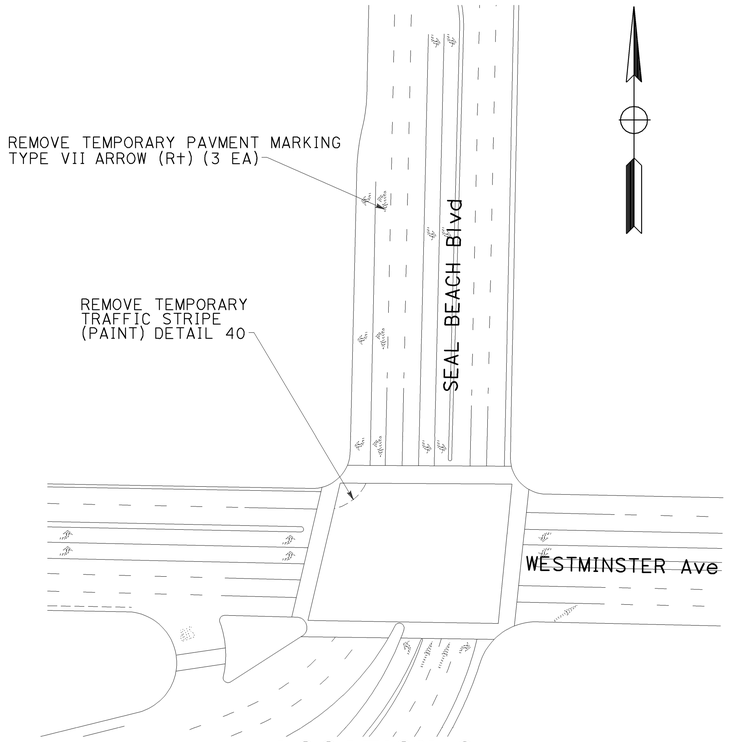
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

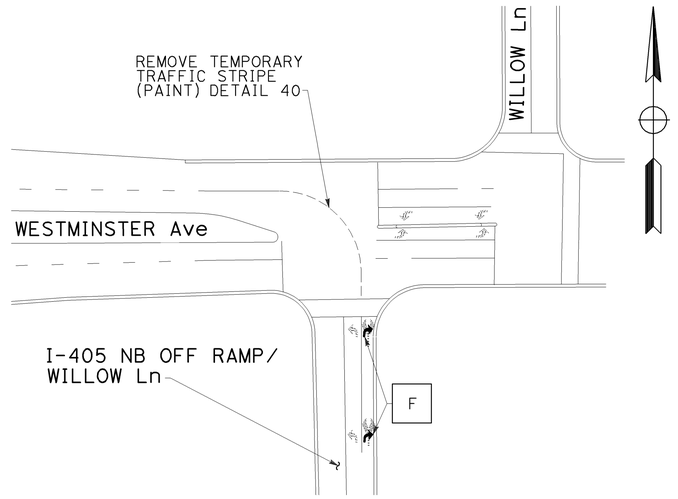
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584



LOCATION 1



LOCATION 2



LOCATION 3

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1B.3

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

NO SCALE

SC-72

CALCULATED-DESIGNED BY	CHECKED BY
KELSIE ANDERSON	JULIET SU

REVISED BY	DATE REVISED
KLA	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 12:42

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak DGN FILE => c07163ma072.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	680	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

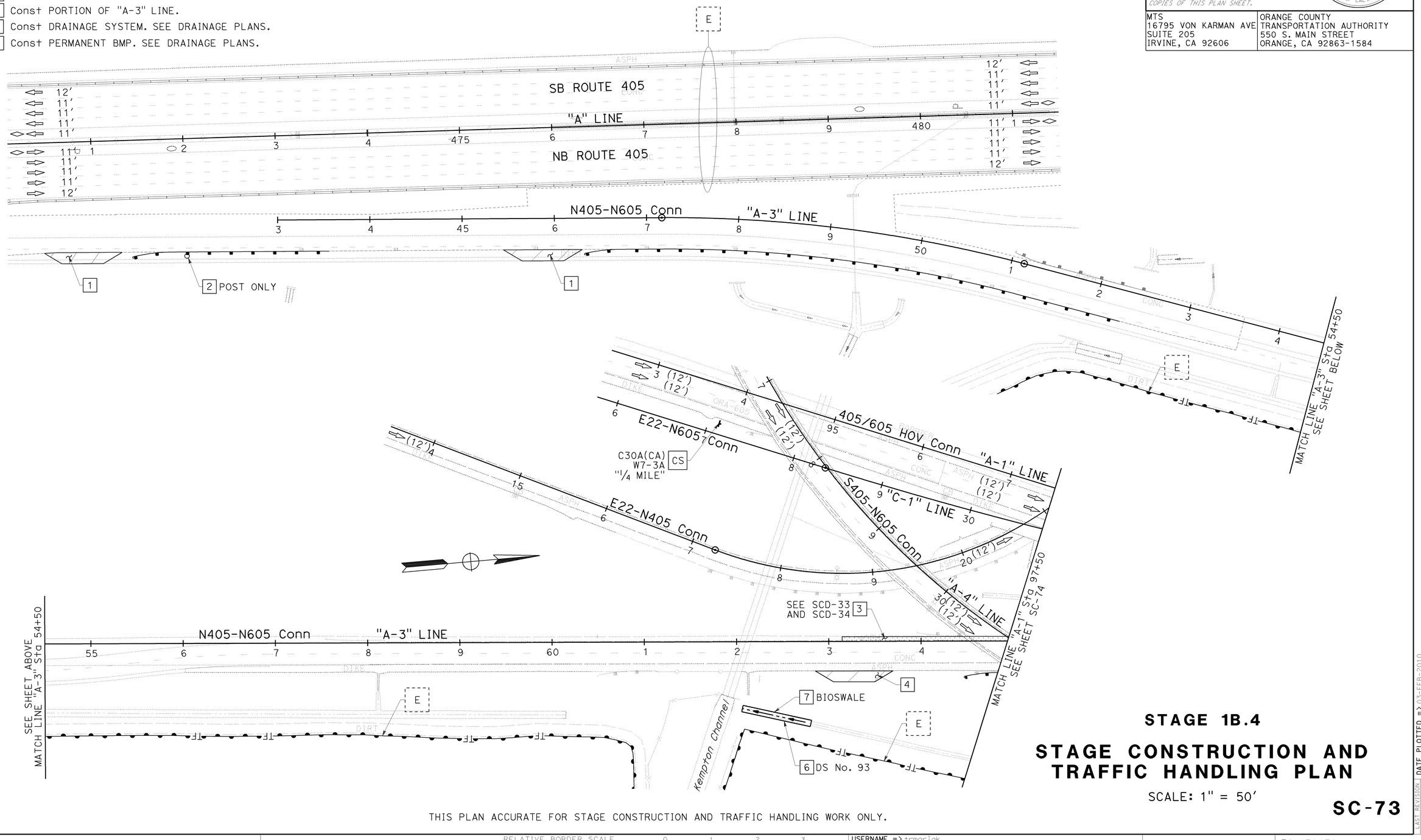
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

1 Const PORTION OF NB Pvmt.
2 Const OH SIGN. SEE SIGN PLANS.
3 Const PORTION OF Temp Conn, "TC-1" LINE.
4 Const PORTION OF "A-3" LINE.
6 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.
7 Const PERMANENT BMP. SEE DRAINAGE PLANS.



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1B.4

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-73

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 12:42

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmariak
DGN FILE => c07163ma073.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	681	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

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SUITE 205
IRVINE, CA 92606

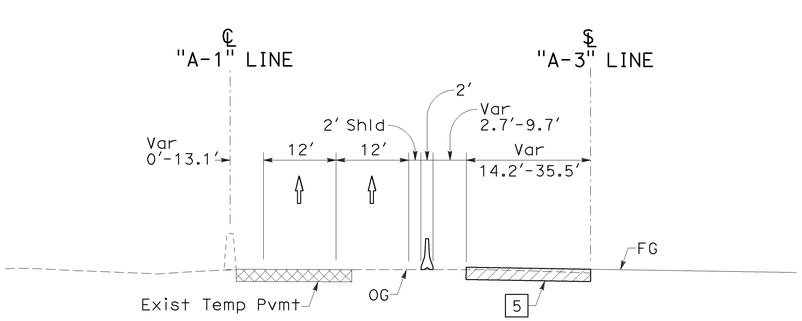
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

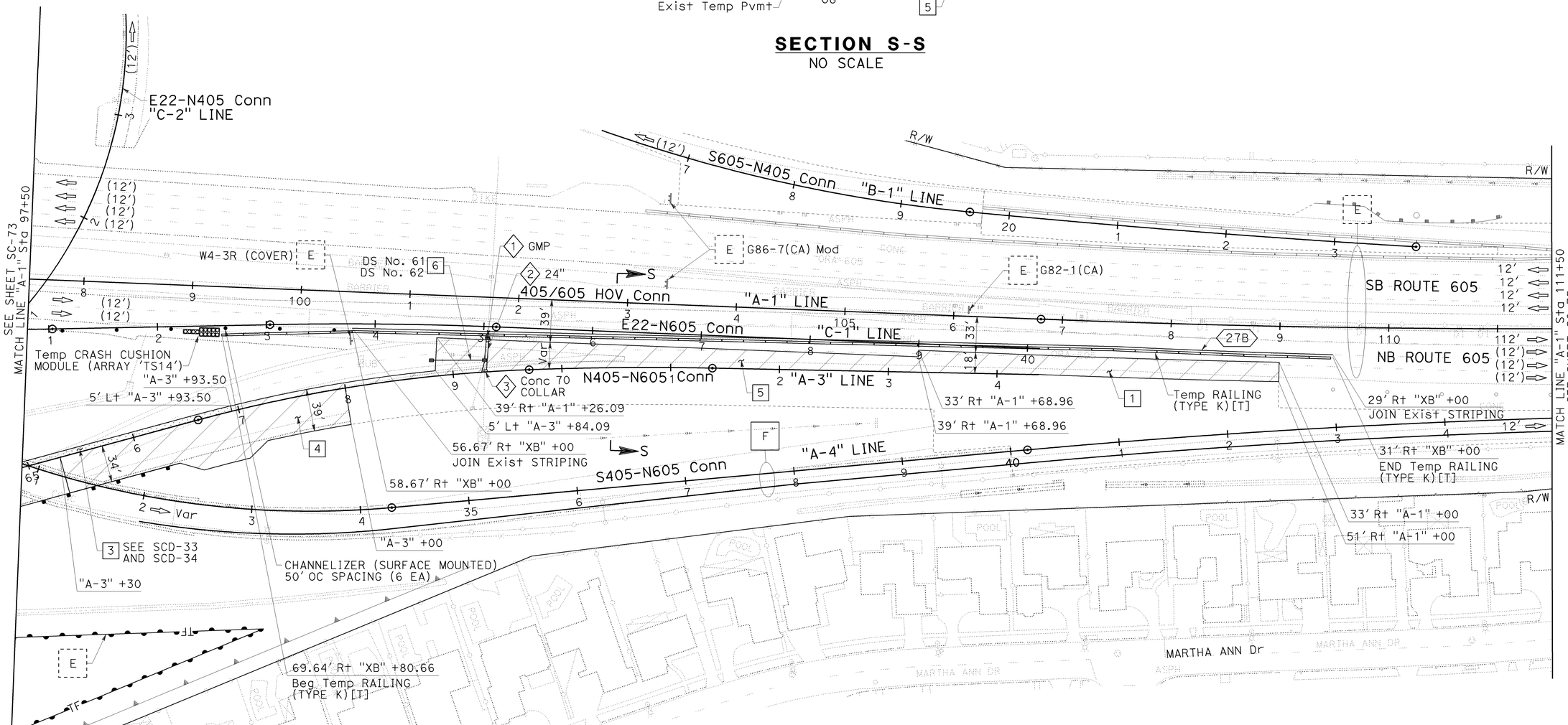
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

1 Const PORTION OF NB Pvmt.
3 Const PORTION OF Temp Conn, "TC-1" LINE.
4 Const PORTION OF "A-3" LINE.
5 Const PORTION OF "C-1" LINE.
6 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.



SECTION S-S
NO SCALE



STAGE 1B.4

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-74

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

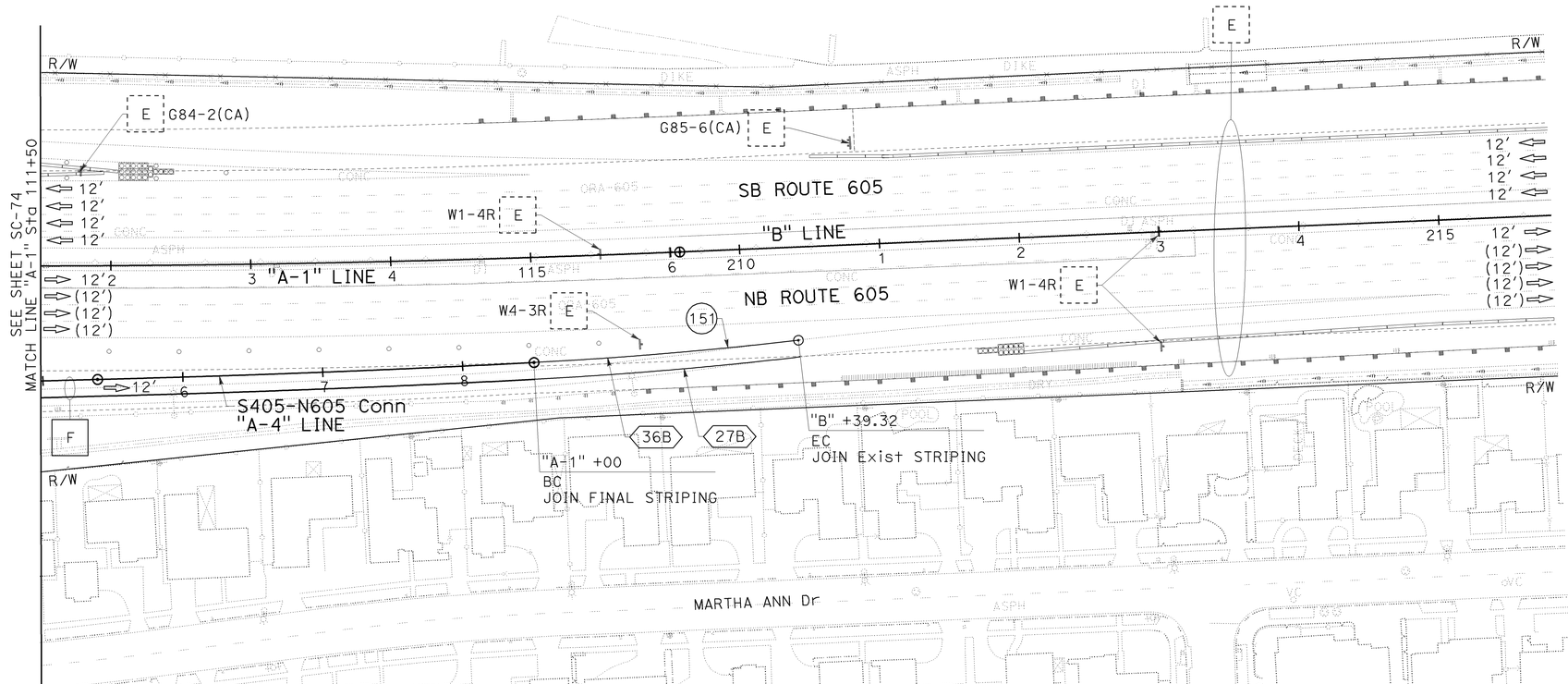
LAST REVISION | DATE PLOTTED => 03-FEB-2010
08-10-09 | TIME PLOTTED => 12:42

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak DGN FILE => c07163ma074.dgn | CU 12235 | EA 071631

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CURVE DATA				
No.	R	Δ	T	L
(151)	3,002.60′	03°37′06"	94.84′	189.61′



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1B.4

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-75

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	682	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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IRVINE, CA 92606

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550 S. MAIN STREET
ORANGE, CA 92863-1584

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 12:42
08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmariak
DGN FILE => c07163ma075.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	683	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
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.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

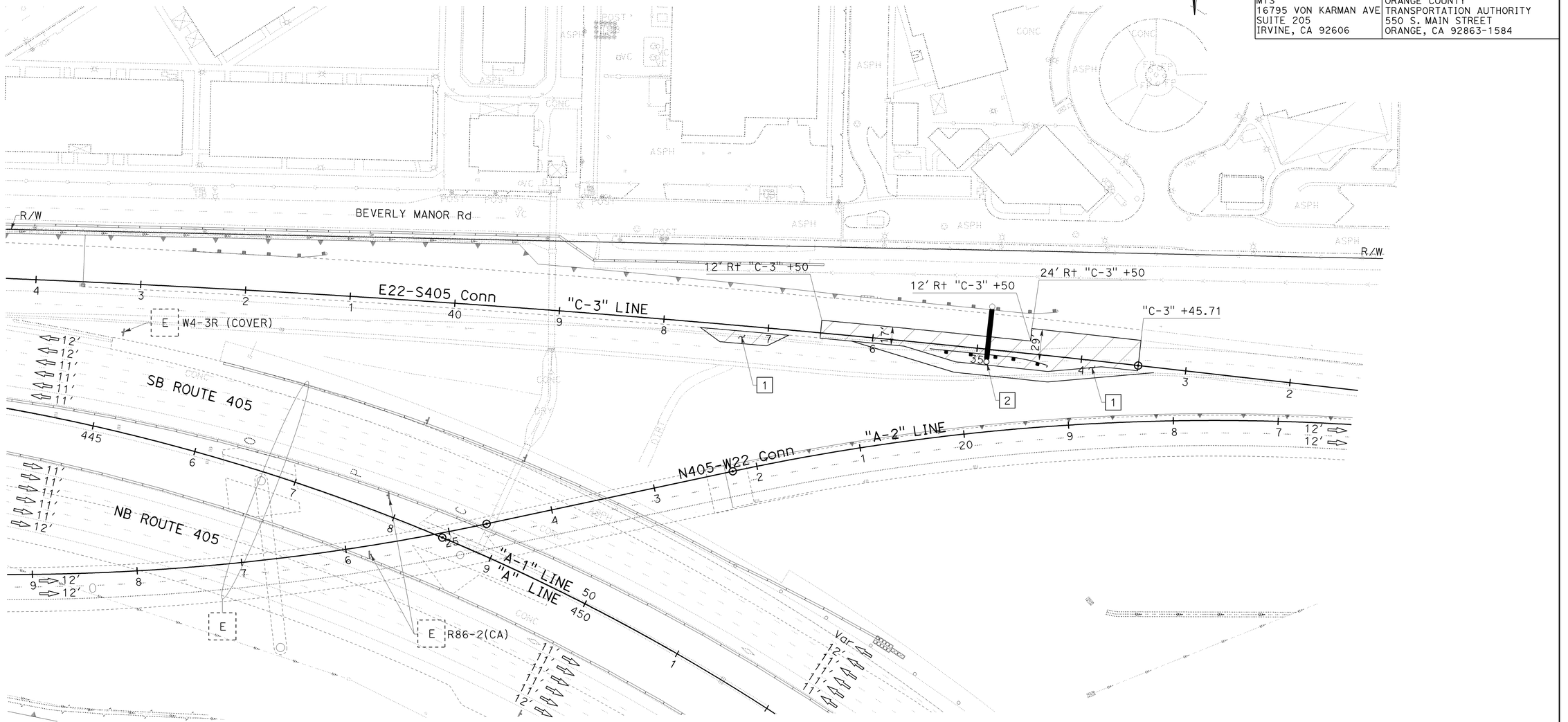
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

1 Const REMAINDER OF "C-3" LINE.

2 Const OH SIGN. SEE SIGN PLANS.



STAGE 1B.5

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLANS

SCALE: 1" = 50'

SC-76

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY	CHECKED BY
KELSIE ANDERSON	JULIET SU

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 08-10-09 12:42

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak | DGN FILE => c07163ma076.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	684	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

MTS 16795 VON KARMAN AVE SUITE 205 IRVINE, CA 92606	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 S. MAIN STREET ORANGE, CA 92863-1584

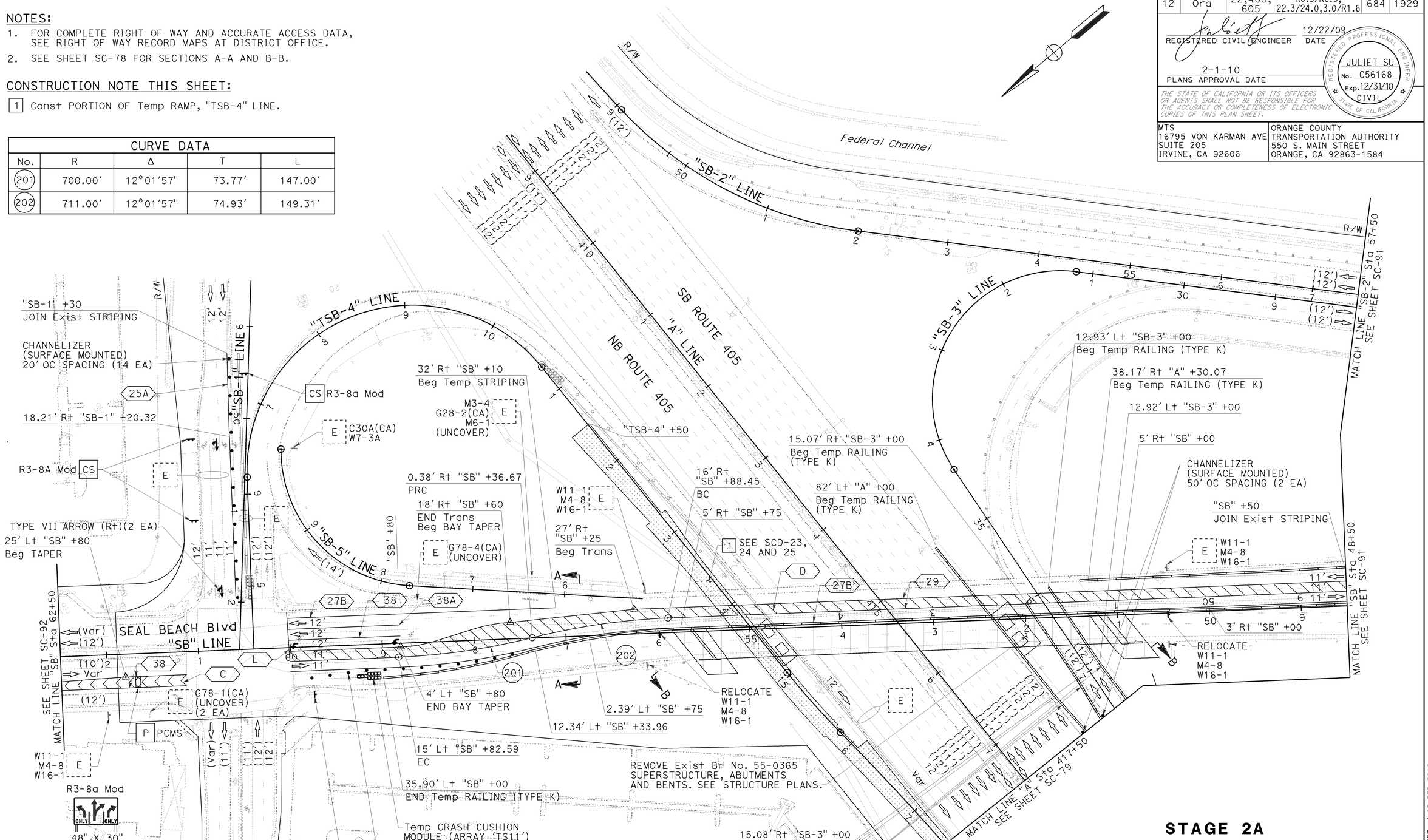
NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. SEE SHEET SC-78 FOR SECTIONS A-A AND B-B.

CONSTRUCTION NOTE THIS SHEET:

1 Const PORTION OF Temp RAMP, "TSB-4" LINE.

CURVE DATA				
No.	R	Δ	T	L
201	700.00′	12°01′57"	73.77′	147.00′
202	711.00′	12°01′57"	74.93′	149.31′



STAGE 2A

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-77

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:15

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmartin DGN FILE => c07163ma077.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	685	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
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.

MTS
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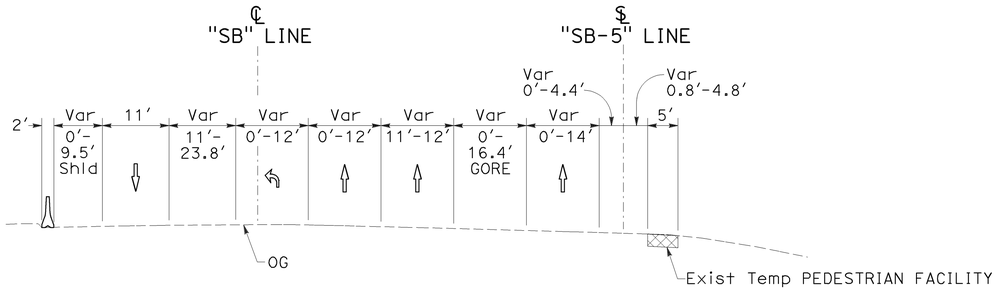
SUITE 205
IRVINE, CA 92606

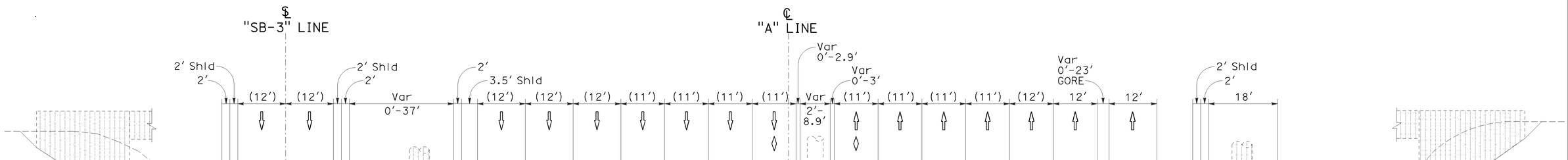
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION NOTE THIS SHEET:

1 Const PORTION OF Temp RAMP, "TSB-4" LINE.



SECTION A-A



SECTION B-B

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 2A

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

NO SCALE

SC-78

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: 08-10-09
DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	686	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

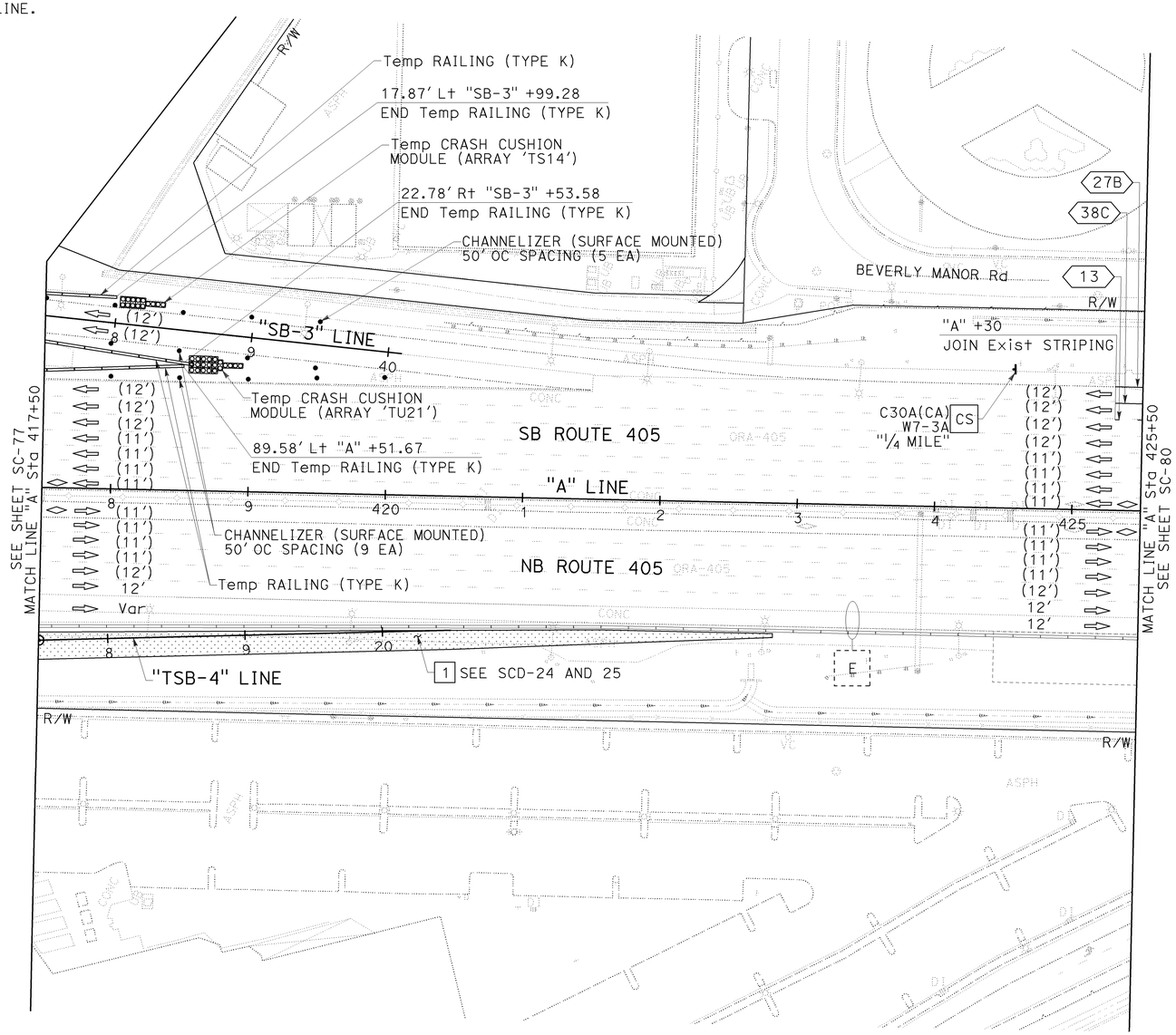
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTE THIS SHEET:

1 Const PORTION OF Temp RAMP, "TSB-4" LINE.



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 2A

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-79

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 13:09

REVISED BY	DATE REVISED
KLA	12/22/09

KELSIE ANDERSON — CALCULATED-DESIGNED BY
JULIET SU — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CURVE DATA				
No.	R	Δ	T	L
203	3,000.00′	04°15′46"	111.65′	223.20′
204	3,000.00′	04°15′46"	111.65′	223.20′

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	687	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
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.

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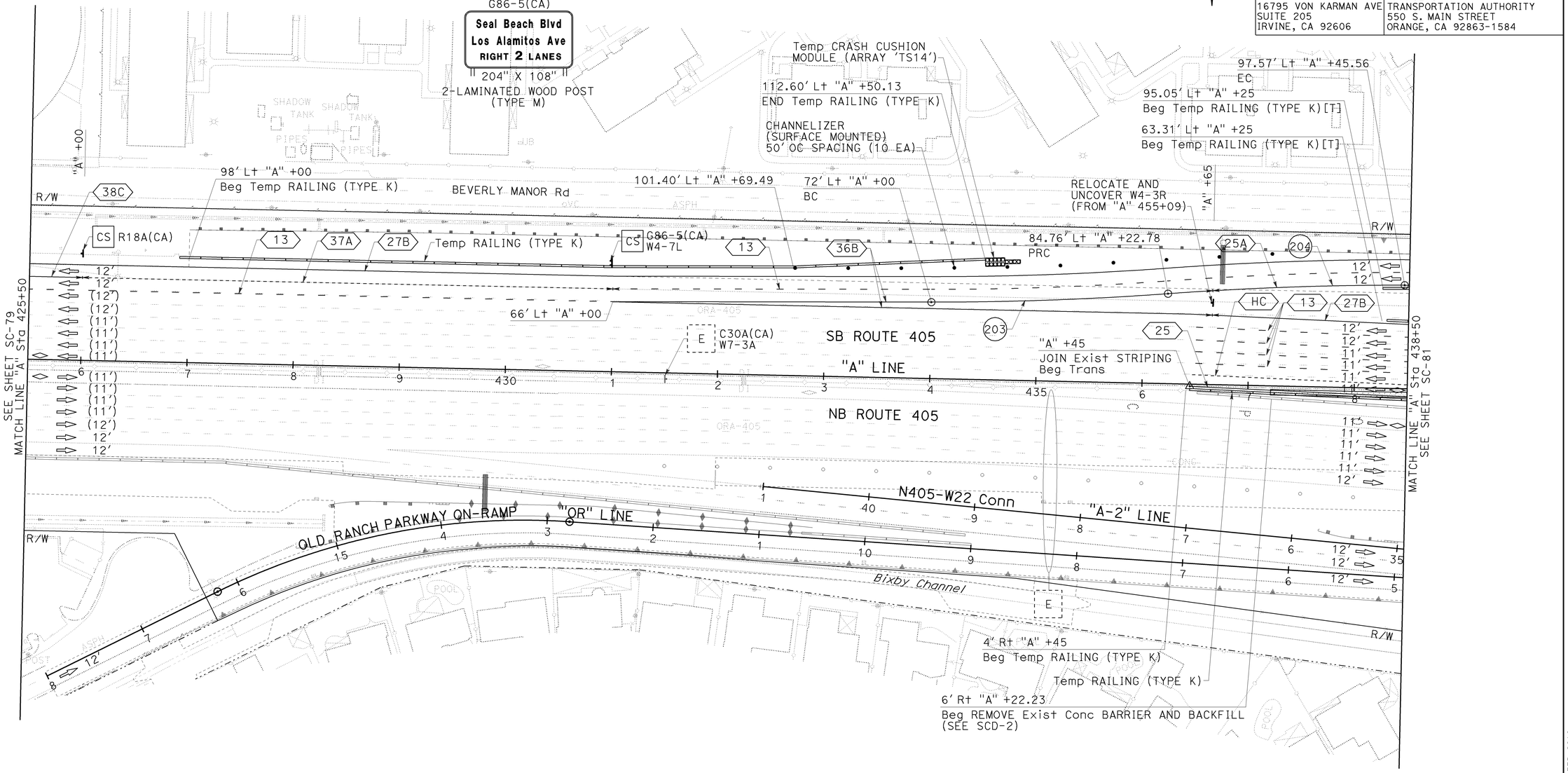
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584



STAGE 2A

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-80

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY: KLA — DATE REVISED: 12/22/09
KELSIE ANDERSON
JULIET SU

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 13:09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmartin | DGN FILE => c07163ma080.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	688	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
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.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

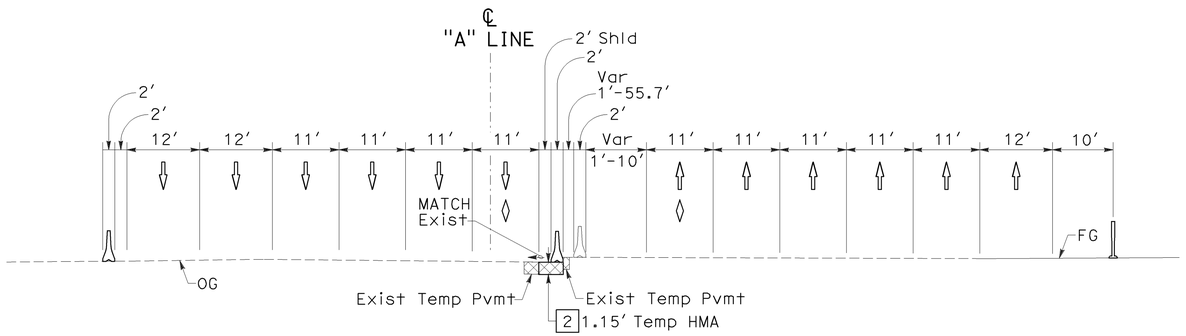
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

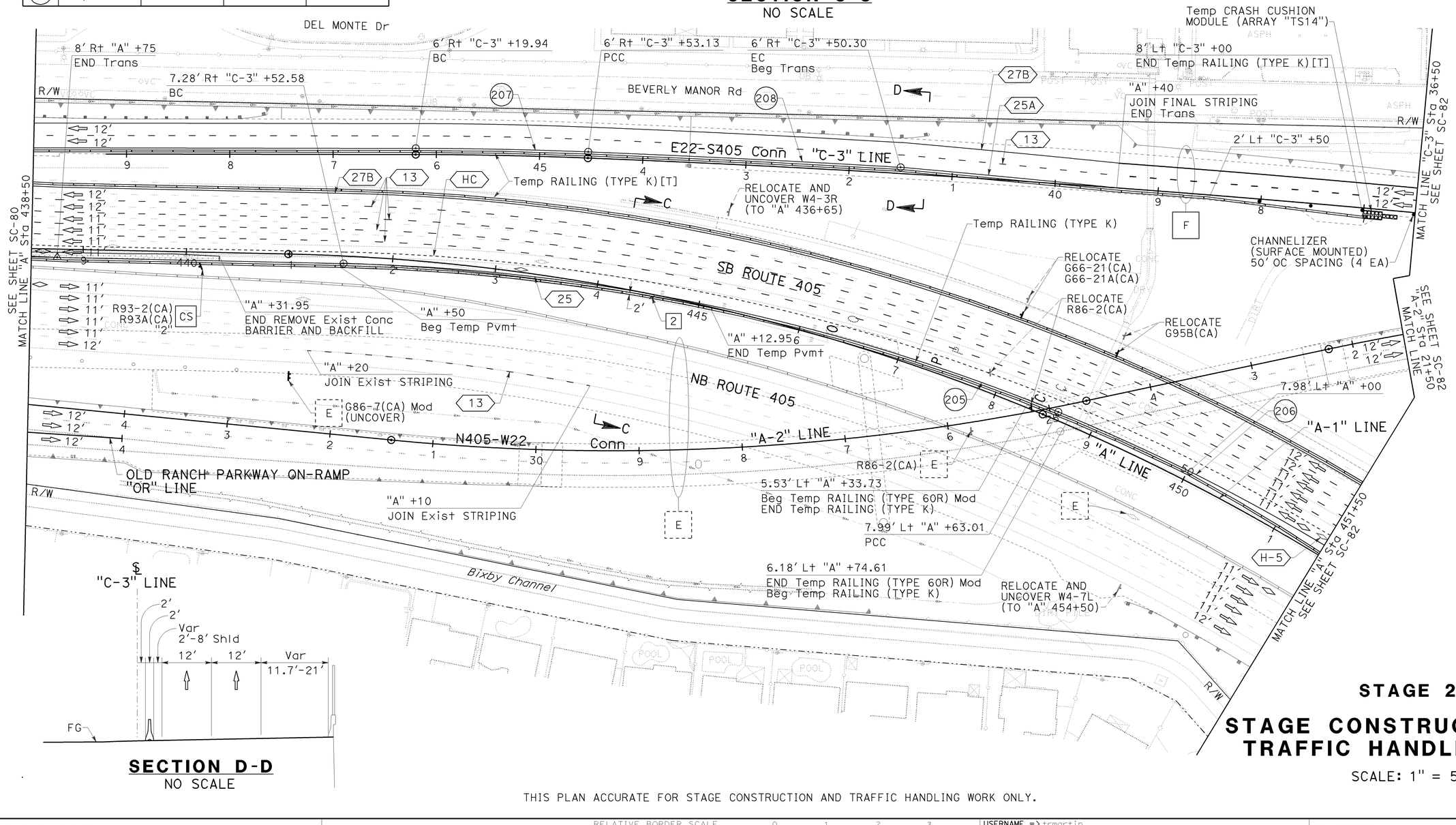
CONSTRUCTION NOTES THIS SHEET

2 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.

CURVE DATA				
No.	R	Δ	T	L
205	1,940.00′	20°59′57"	359.51′	710.96′
206	1,900.00′	31°46′22"	540.74′	1,053.63′
207	4,406.00′	02°10′20"	83.53′	167.04′
208	15,136.00′	01°08′48"	151.48′	302.94′



SECTION C-C
NO SCALE



SECTION D-D
NO SCALE

STAGE 2A

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-81

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU

REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:09
08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmartin
DGN FILE => c07163ma081.dgn

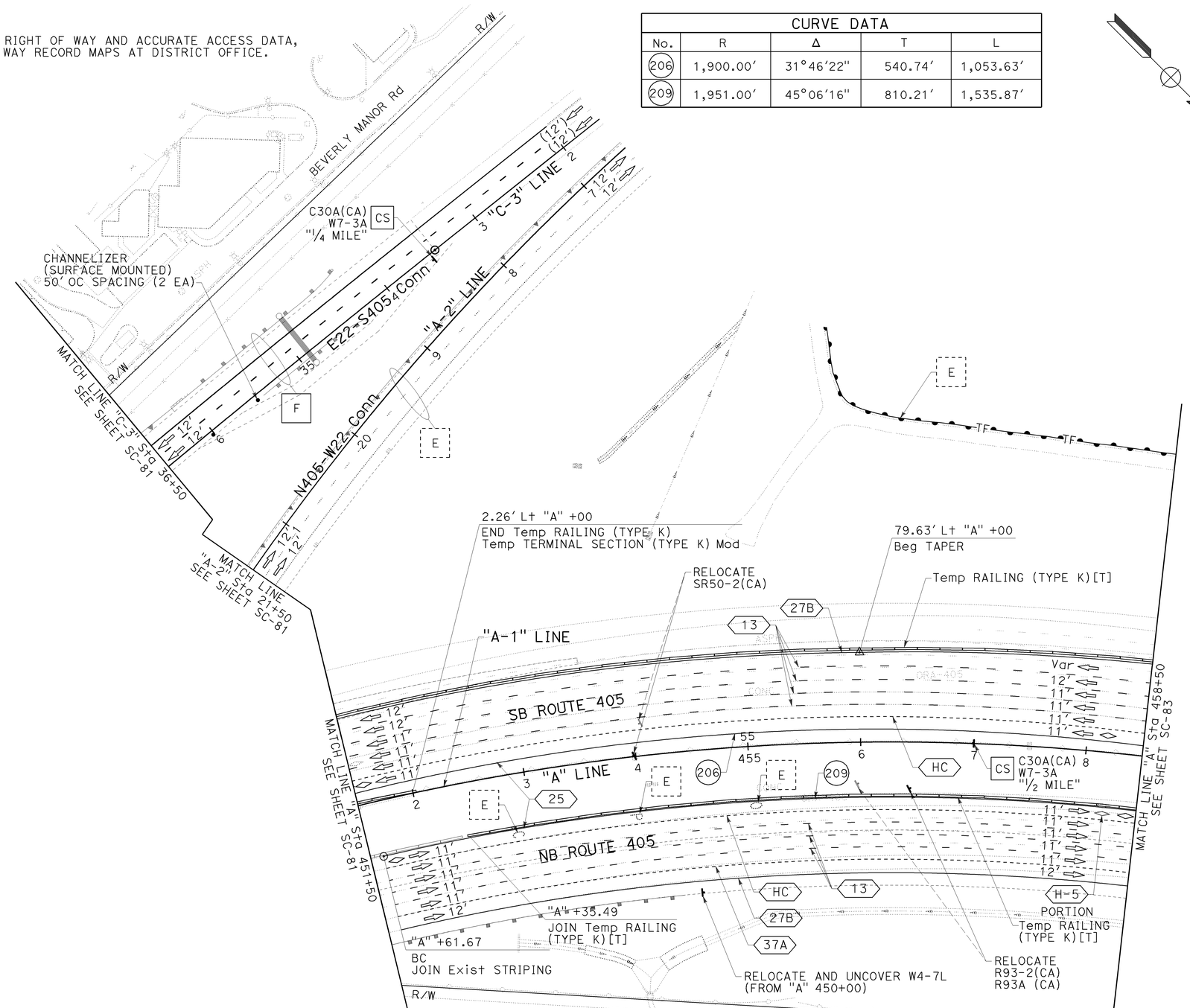
CU 12235

EA 071631

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CURVE DATA				
No.	R	Δ	T	L
(206)	1,900.00′	31°46′22"	540.74′	1,053.63′
(209)	1,951.00′	45°06′16"	810.21′	1,535.87′



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	689	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
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.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
REVISED BY: KLA
DATE REVISED: 12/22/09
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

STAGE 2A

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-82

LAST REVISION | DATE PLOTTED => 03-FEB-2010
08-10-09 | TIME PLOTTED => 13:09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmartin
DGN FILE => c07163ma082.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	690	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

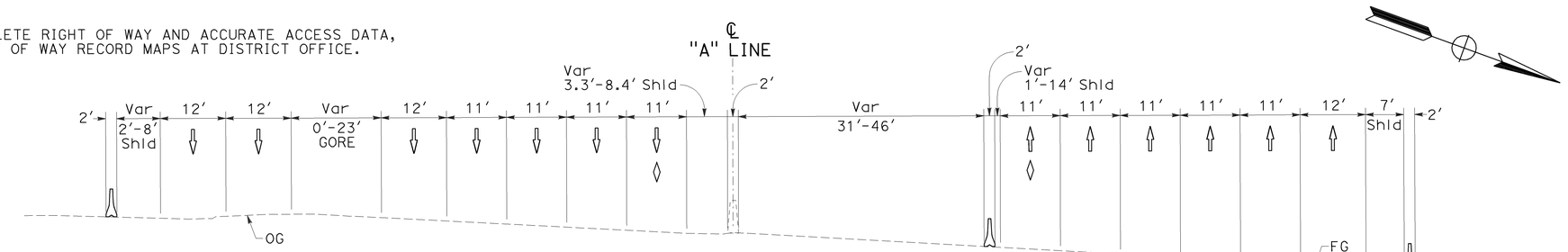
REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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.

MTS 16795 VON KARMAN AVE SUITE 205 IRVINE, CA 92606	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 S. MAIN STREET ORANGE, CA 92863-1584

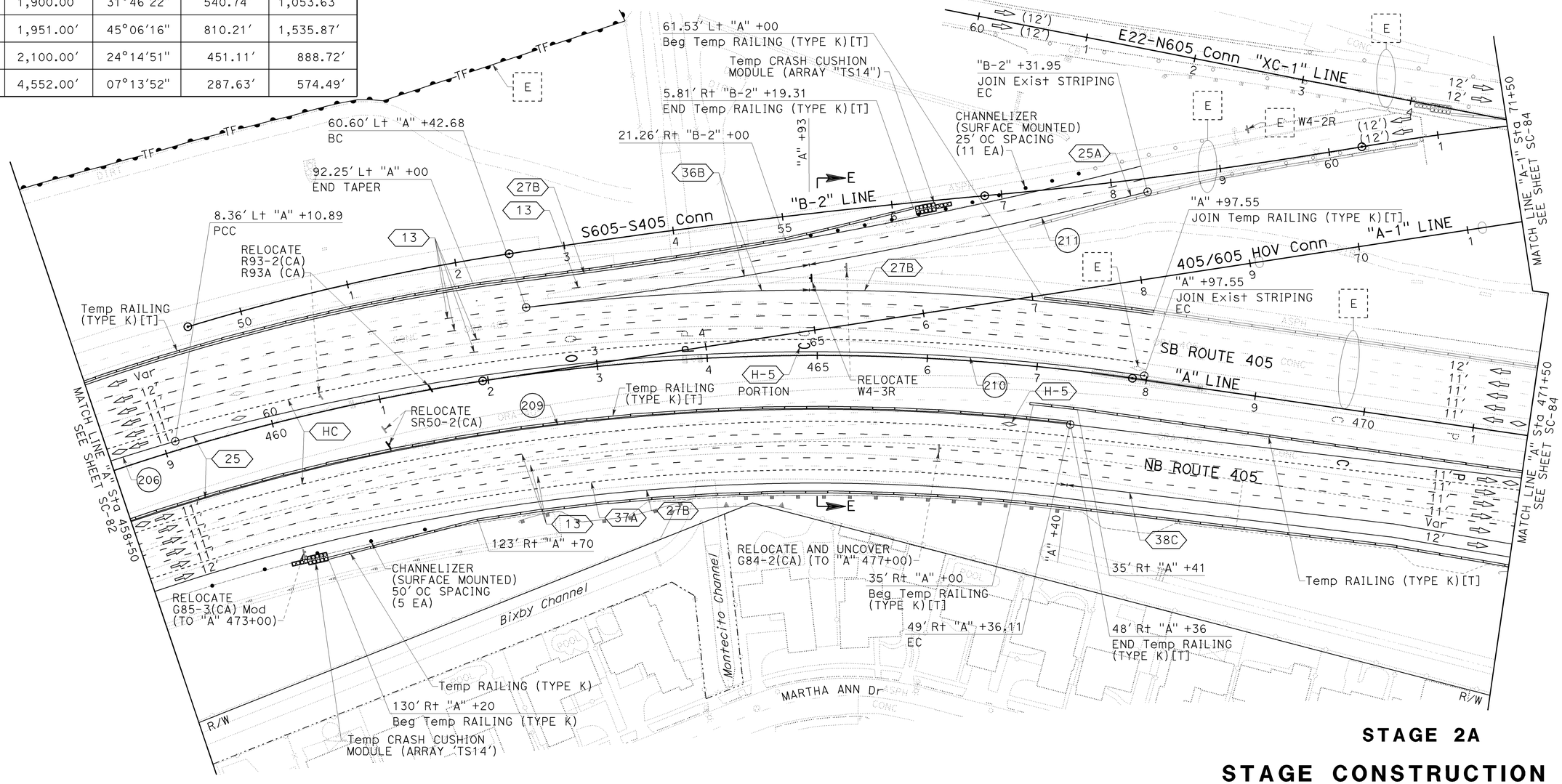
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



SECTION E-E
NO SCALE

CURVE DATA				
No.	R	Δ	T	L
206	1,900.00'	31°46'22"	540.74'	1,053.63'
209	1,951.00'	45°06'16"	810.21'	1,535.87'
210	2,100.00'	24°14'51"	451.11'	888.72'
211	4,552.00'	07°13'52"	287.63'	574.49'



STAGE 2A

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-83

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

KELSIE ANDERSON — JULIET SU

CALCULATED-DESIGNED BY — CHECKED BY

SUPERVISOR — LEONARD SEQUEIRA

CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION — DATE PLOTTED => 03-FEB-2010 — TIME PLOTTED => 13:10 — 08-10-09

BORDER LAST REVISED 8/1/2008 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — USERNAME => trmartin — DGN FILE => c07163ma083.dgn — CU 12235 — EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	691	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

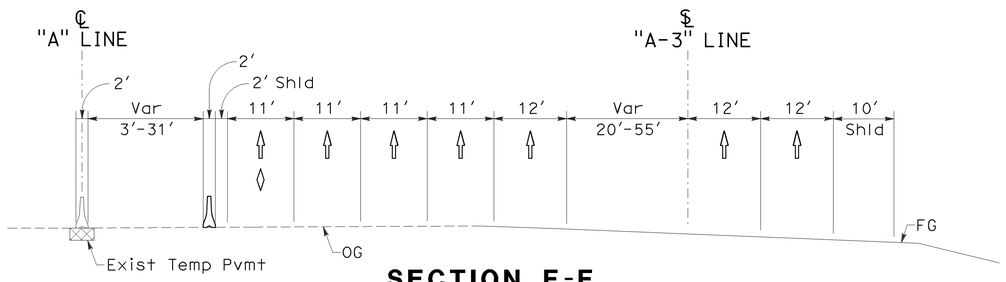
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

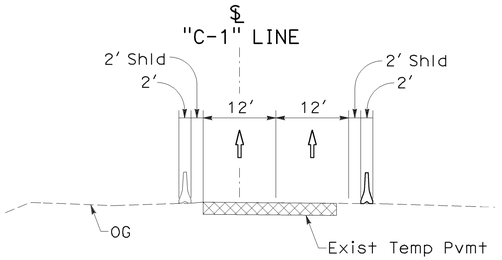
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

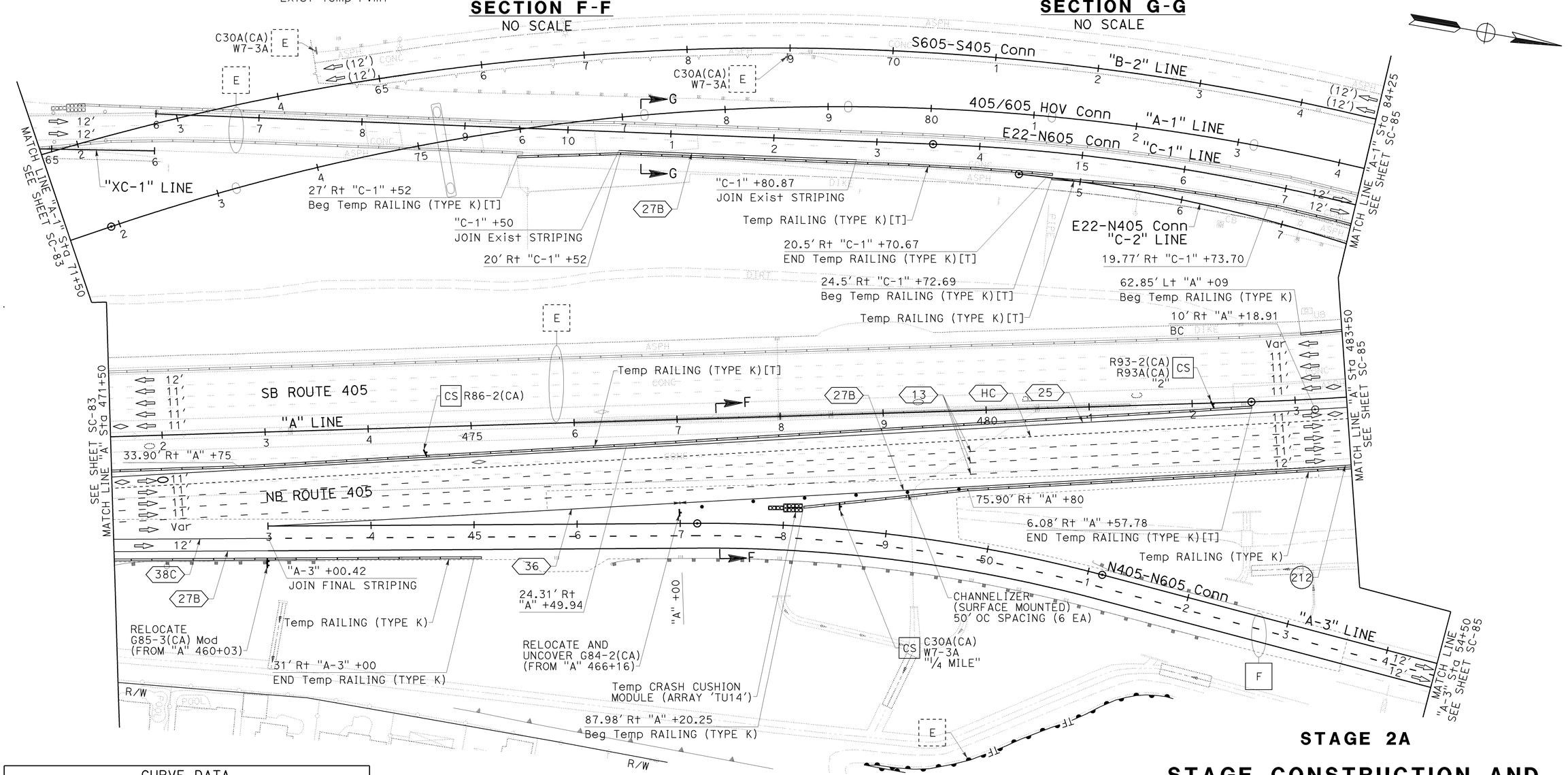
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



SECTION F-F
NO SCALE



SECTION G-G
NO SCALE



CURVE DATA				
No.	R	Δ	T	L
212	2,410.00′	04°33′43"	95.99′	191.88′

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 2A

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-84

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY	CHECKED BY
KELSIE ANDERSON	JULIET SU

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 13:10

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmartin | DGN FILE => c07163ma084.dgn | CU 12235 | EA 071631

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CURVE DATA				
No.	R	Δ	T	L
(212)	2,410.00′	04°33′43"	95.99′	191.88′
(500)	2,500.00′	31°31′05"	705.50′	1,375.23′

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	692	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
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.

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SUITE 205
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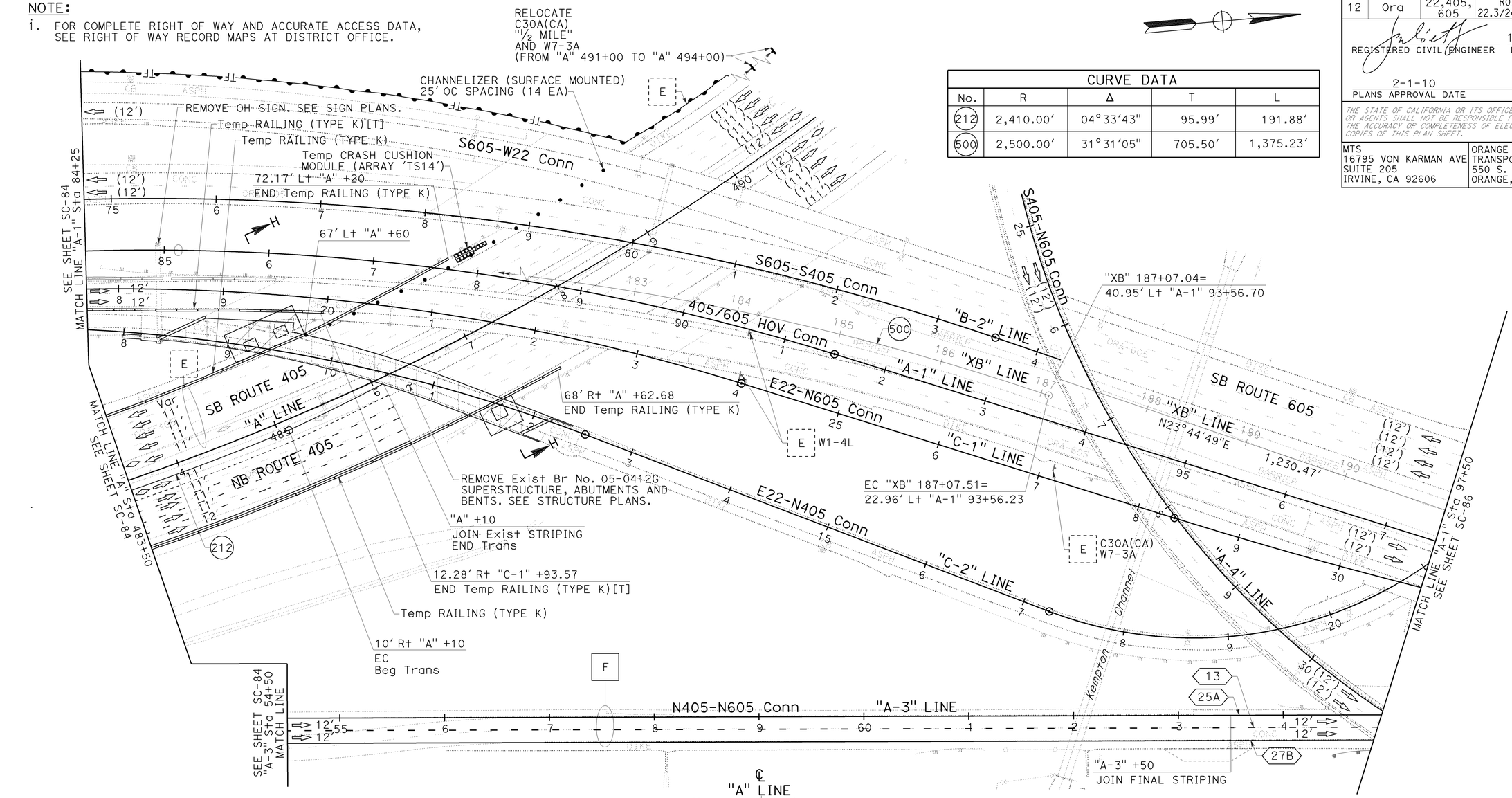
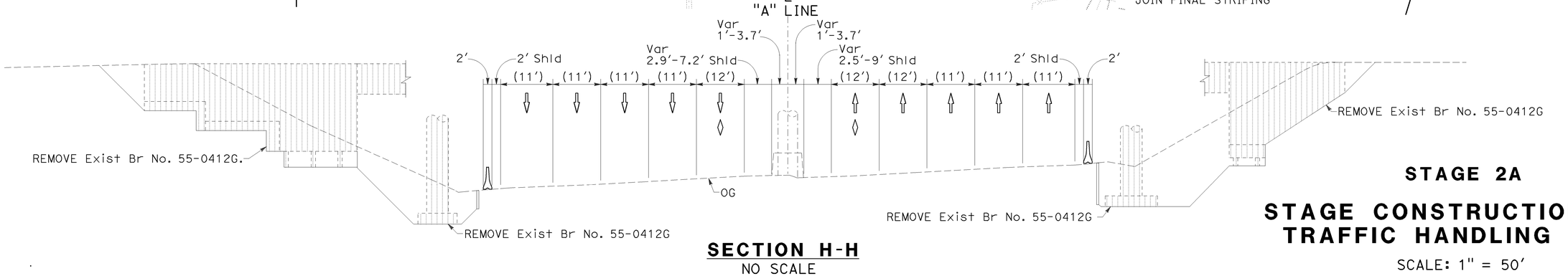
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584





SECTION H-H
NO SCALE

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 2A

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-85

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 13:10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmartin DGN FILE => c07163ma085.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	693	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

JULIET SU No. C56168 Exp.12/31/10 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.

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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

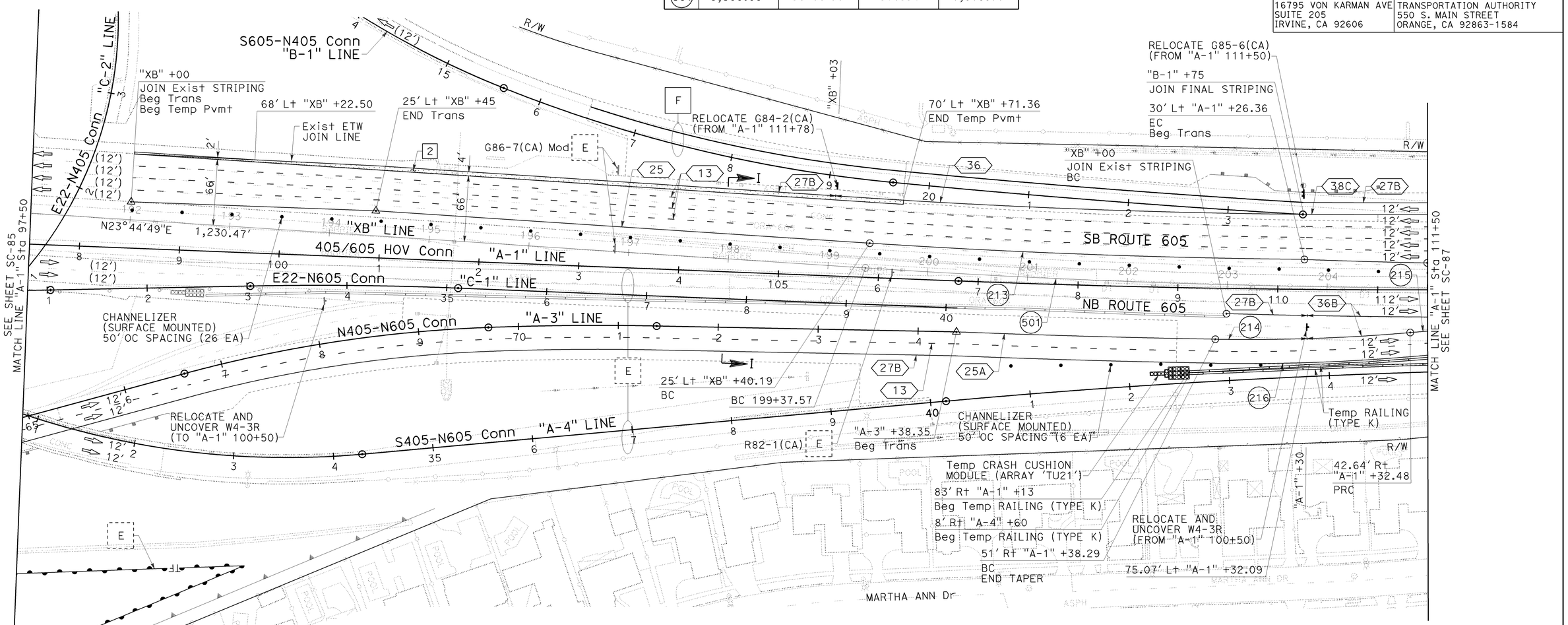
NOTE:

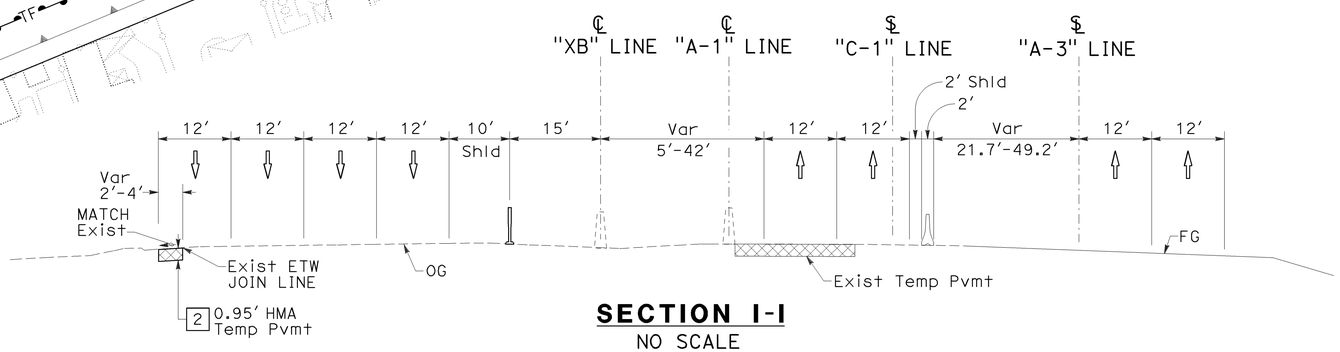
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTE THIS SHEET:

2 Const Temp Pvmt. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.

CURVE DATA				
No.	R	Δ	T	L
213	7,745.00′	03°13′15"	217.75′	435.38′
214	1,900.00′	05°53′17"	97.71′	195.26′
215	3,000.00′	03°12′53"	84.18′	168.32′
216	9,529.00′	03°55′26"	326.43′	652.60′
501	9,500.00′	06°09′00"	510.34′	1,019.71′





SECTION I-I
NO SCALE

STAGE 2A

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-86

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 13:10

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmartin DGN FILE => c07163ma086.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	694	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 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.

MTS
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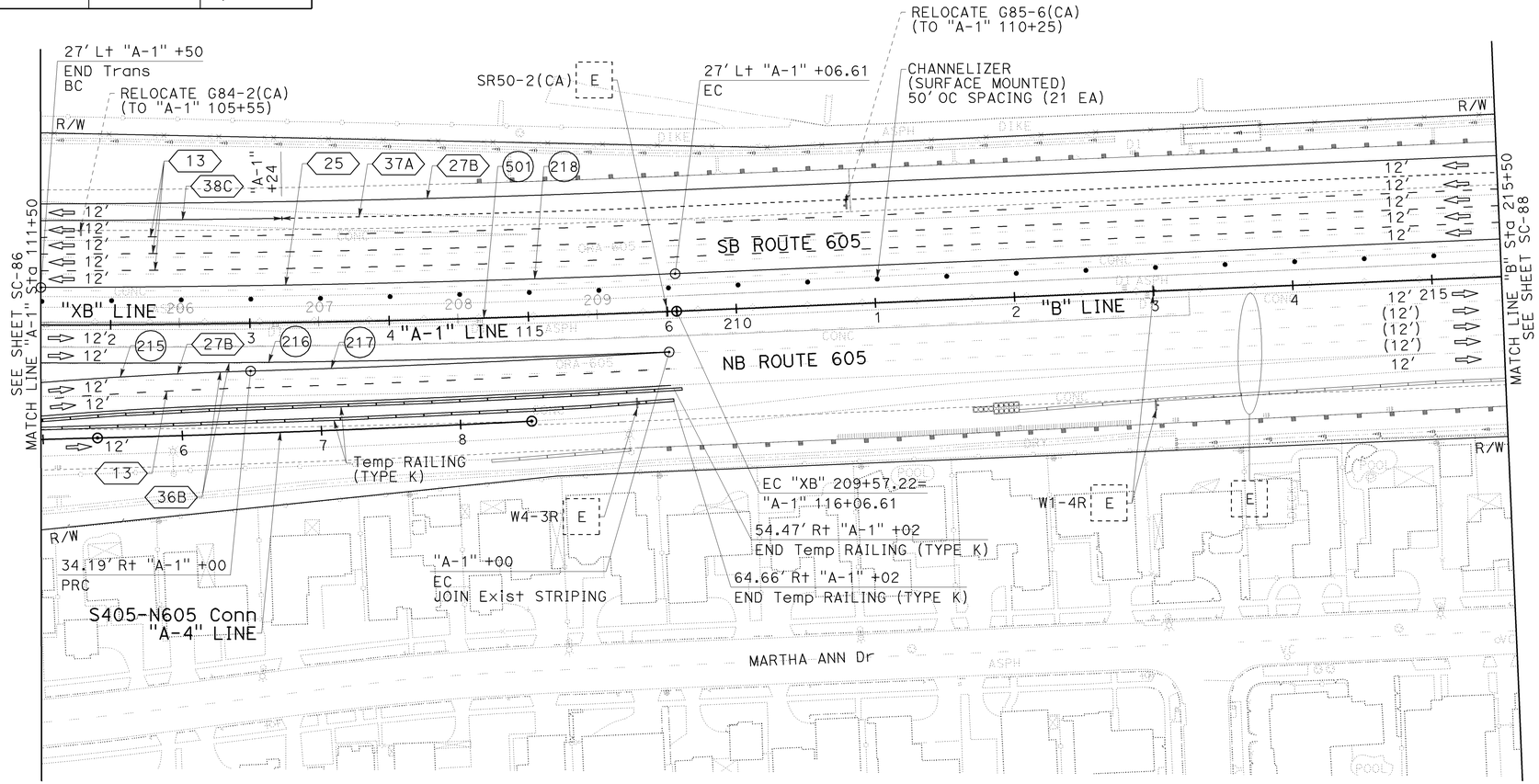
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CURVE DATA				
No.	R	Δ	T	L
215	3,000.00′	03°12′53"	84.18′	168.32′
216	9,529.00′	03°55′26"	326.43′	652.60′
217	9,590.00′	01°47′52"	150.45′	300.88′
218	11,323.00′	02°18′26"	228.01′	455.96′
501	9,500.00′	06°09′00"	510.34′	1,019.71′



STAGE 2A

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLANS

SCALE: 1" = 50′

SC-87

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
KELSIE ANDERSON	JULIET SU	KLA	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:10
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmartin | DGN FILE => c07163ma087.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	695	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

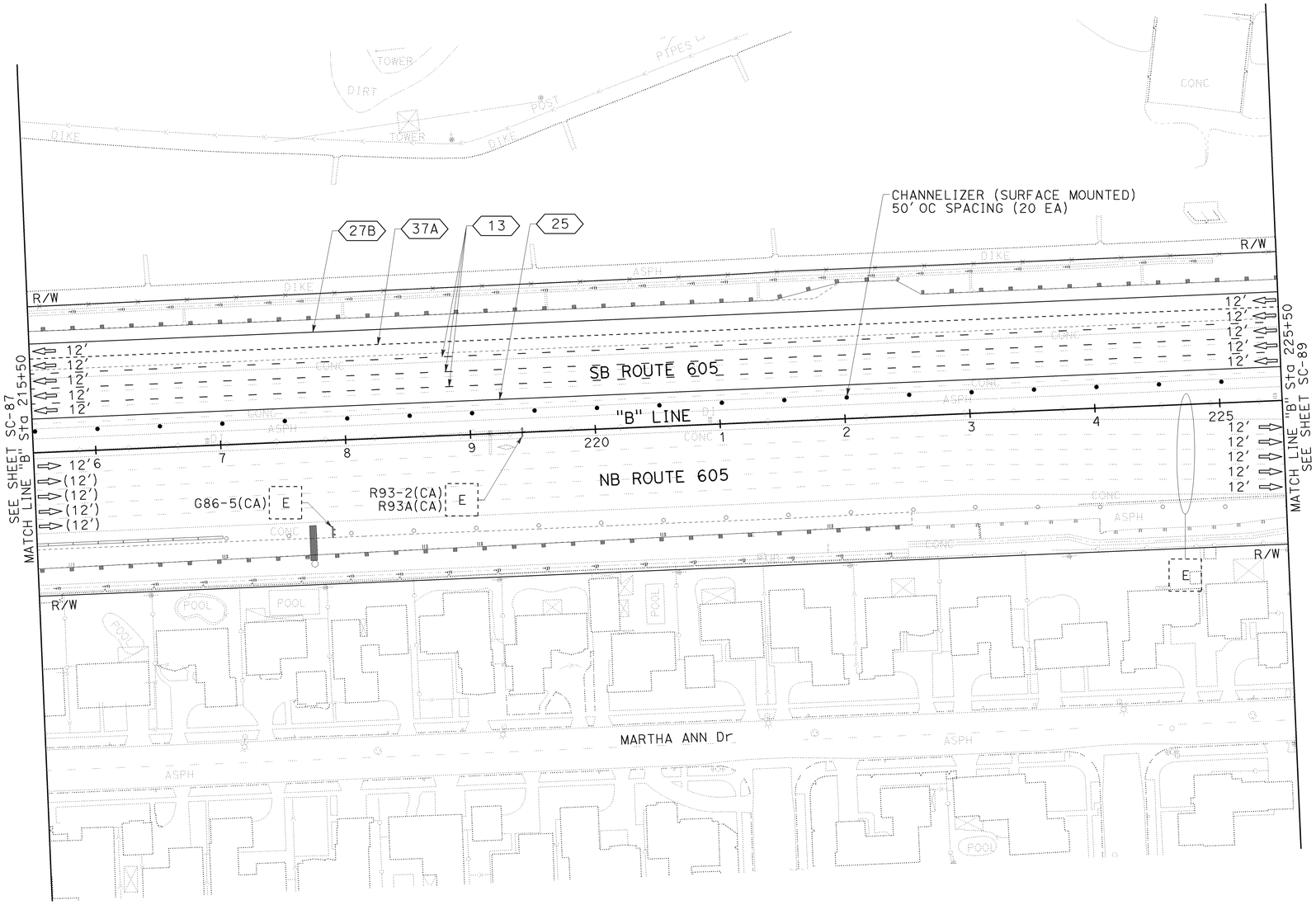
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



STAGE 2A

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-88

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:10
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmartin DGN FILE => c07163ma088.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	696	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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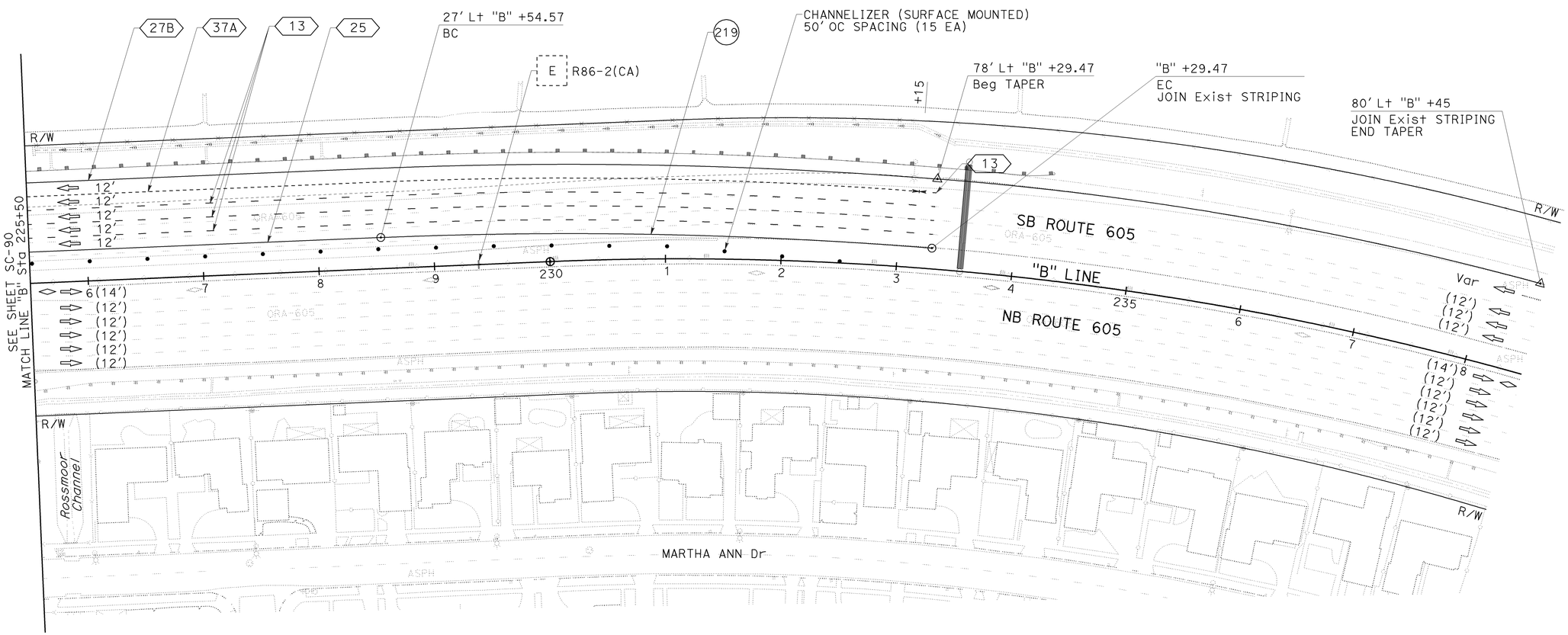
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CURVE DATA				
No.	R	Δ	T	L
219	3,930.00′	06°59′12"	239.91′	479.23′



STAGE 2A

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-89

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY	CHECKED BY
KELSIE ANDERSON	JULIET SU

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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08-10-09

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	697	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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TRANSPORTATION AUTHORITY
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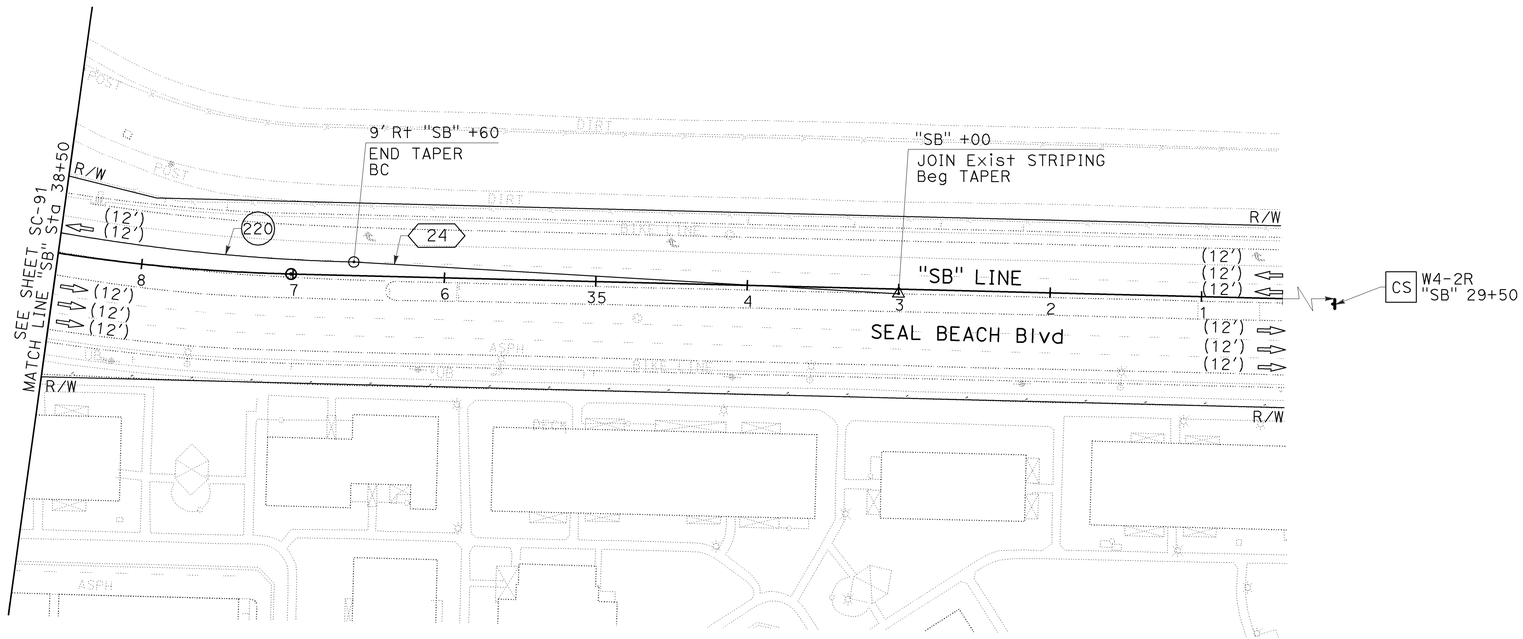
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CURVE DATA				
No.	R	Δ	T	L
220	1,300.00′	10°29′24"	119.34′	238.01′



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 2A

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-90

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION — DATE PLOTTED => 03-FEB-2010 — TIME PLOTTED => 13:15 — 08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trcarol
DGN FILE => c07163ma090.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	698	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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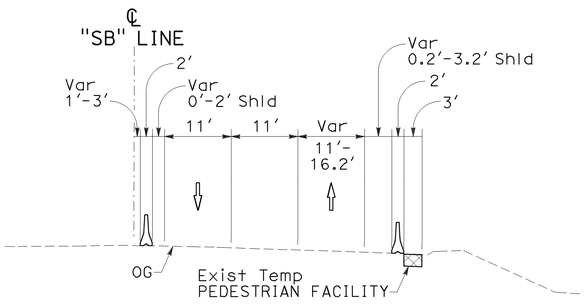
ORANGE, CA 92863-1584

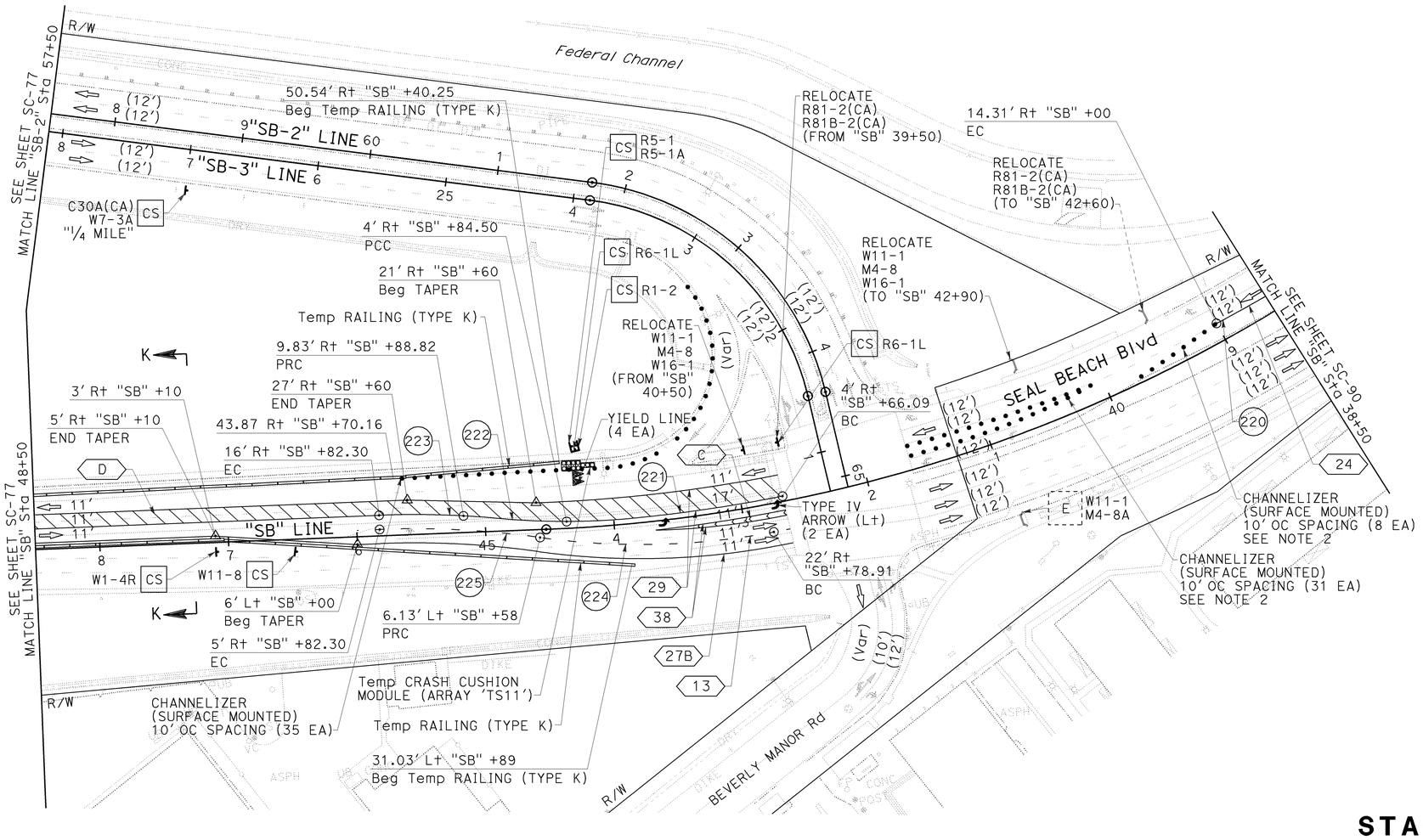
NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. PLACE SURFACE MOUNTED CHANNELIZERS 1' INSIDE Exist STRIPE.

CURVE DATA				
No.	R	Δ	T	L
220	1,300.00'	10°29'24"	119.34'	238.01'
221	1,182.00'	05°43'14"	46.94'	93.75'
222	550.00'	10°51'48"	52.30'	104.28'
223	711.00'	07°33'18"	59.06'	118.01'
224	561.00'	18°38'19"	92.06'	182.50'
225	700.00'	10°13'46"	62.65'	124.98'



SECTION K-K
NO SCALE



STAGE 2A

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-91

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans®

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON

CHECKED BY: JULIET SU

REVISED BY	DATE REVISED
KLA	12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:15
08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

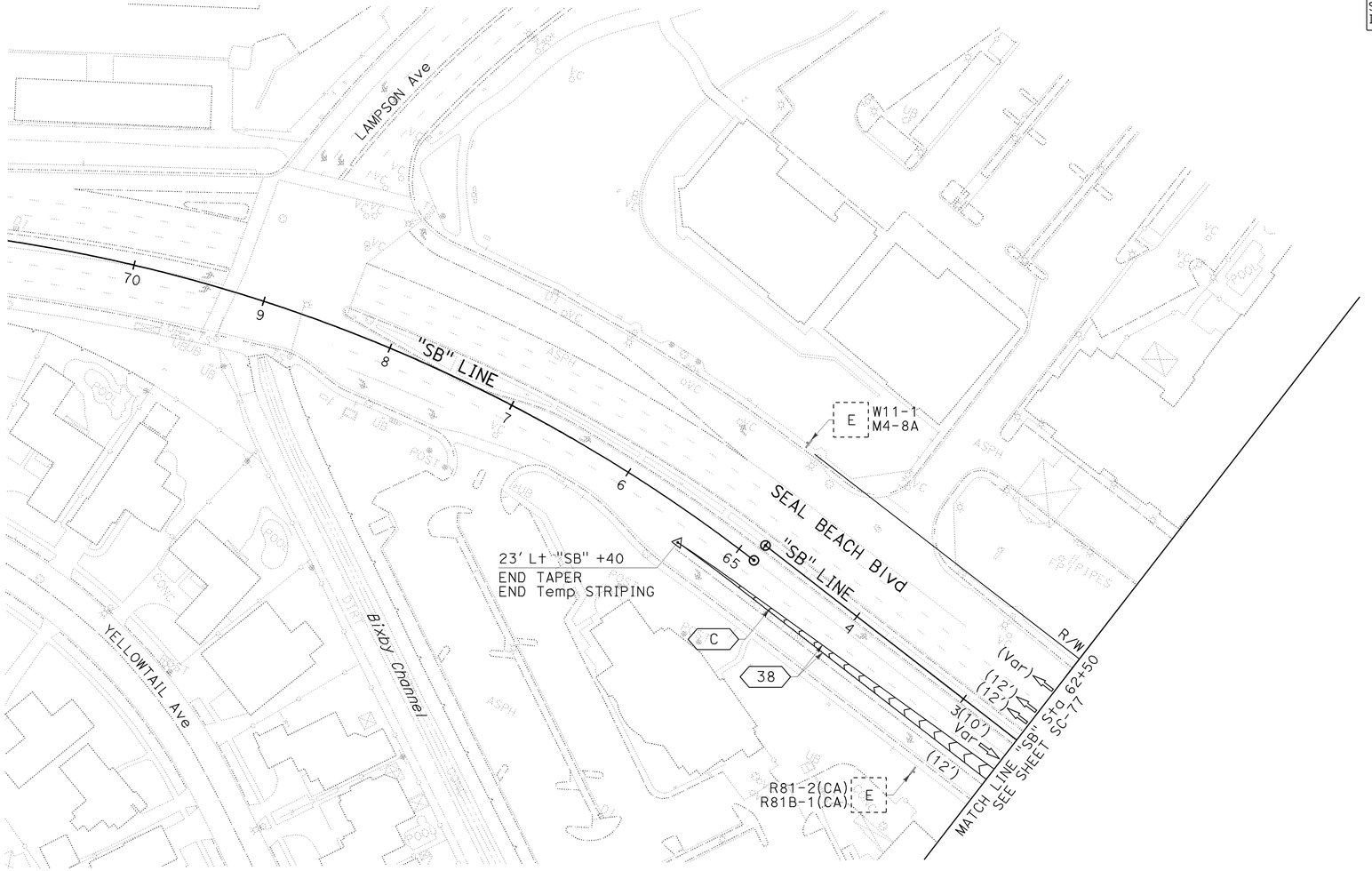
USERNAME => trcarol
DGN FILE => c07163ma091.dgn

CU 12235

EA 071631

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	699	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
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ORANGE, CA 92863-1584

STAGE 2A

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

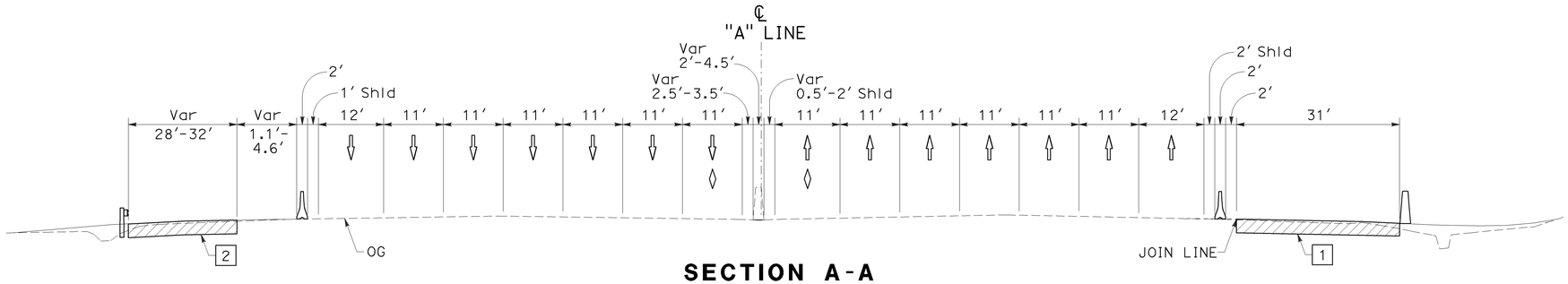
SCALE: 1" = 50'

SC-92

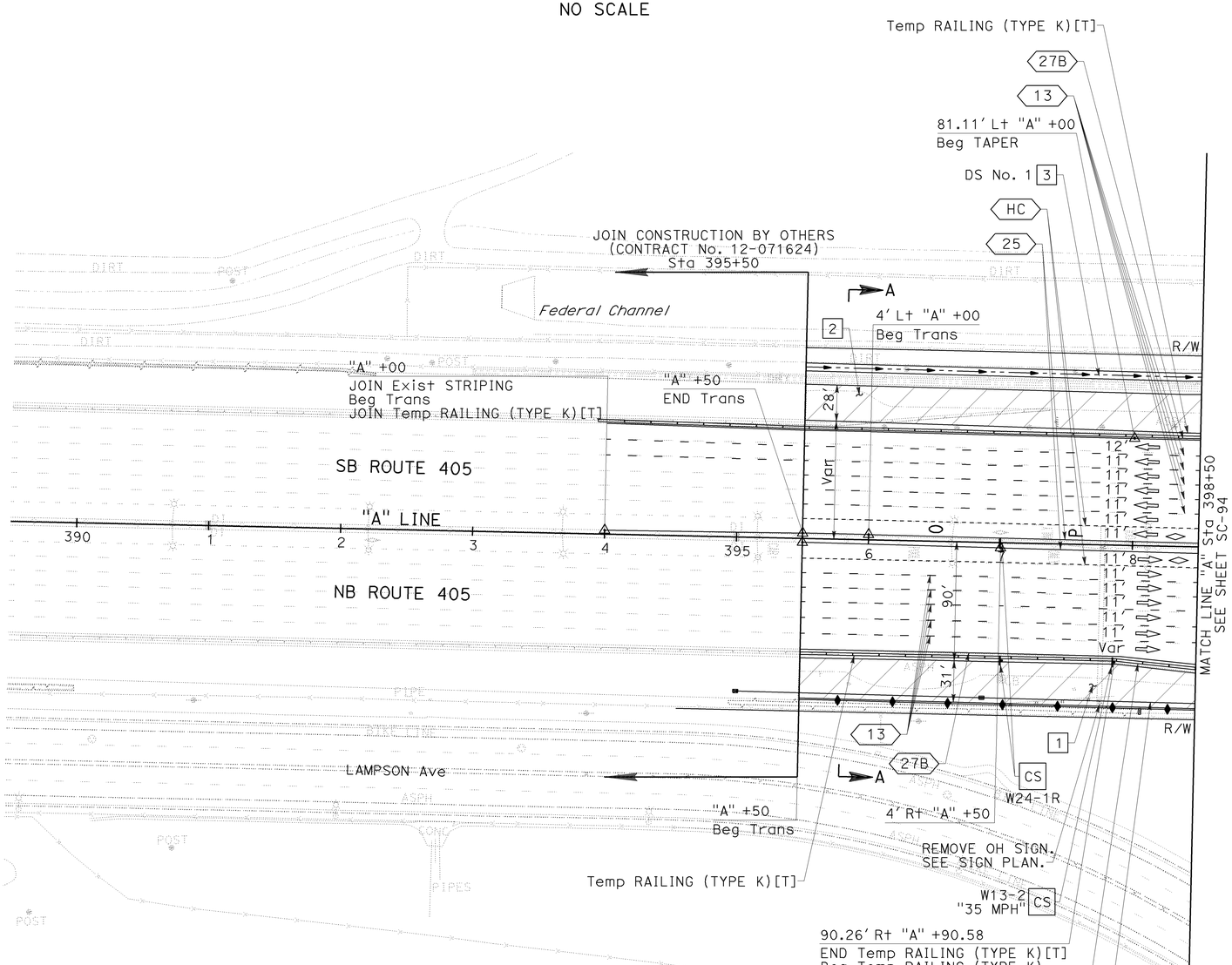
THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	KLA		
DATE REVISED	12/22/09		
CALCULATED-DESIGNED BY	KELSIE ANDERSON		
CHECKED BY	JULIET SU		
CONSULTANT FUNCTIONAL SUPERVISOR	LEONARD SEQUEIRA		
DIRECTOR			
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans		

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:15
08-10-09



SECTION A-A
NO SCALE



NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

1 Const PORTION OF NB Pvmt.

2 Const PORTION OF SB Pvmt.

3 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	700	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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STAGE 2B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-93

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
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08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trcarol
DGN FILE => c07163ma093.dgn
CU 12235
EA 071631