

**Appendix B-8**

**LAKE TAHOE RESTORATION PROJECTS  
ESTIMATED DIRECT COSTS & KEY MILESTONE DATES**

**Project Name:** Kings Beach Commercial  
Core Improvements      **Agency:** FHWA (Placer County)  
**Prepared by:** Ken Grehm      **Phone:** 530 889-7588      **EIP #:** 10060

**Identify estimated costs of eligible reimbursement expenses:**

<b>1. Planning, Environmental Assessment and Research Costs</b> (specialist surveys, reports, monitoring, data collection, analysis, NEPA, etc.)	\$ _____	_____ %
<b>2. Direct Labor (Payroll) to Perform the Project</b>	\$ _____	_____ %
<b>3. Project Equipment</b> (tools, software, specialized equipment, etc.)	\$ _____	_____ %
<b>4. Travel</b> (including per diem where official travel status required to carry out project, such as serve as COR, experts to review reports, etc.)	\$ _____	_____ %
<b>5. Official Vehicle Use</b> (pro rata cost for use of Official Vehicles when required to carry out project)	\$ _____	_____ %
<b>6. Cost of Contracts, Grants and/or Agreements to Perform the Project</b>	\$ <u>1,200,000</u>	<u>100</u> %
<b>7. Other Direct Costs</b> (direct labor for agency personnel to do project procurements; COR; PI; personnel assigned as NEPA lead; personnel assigned to review contracted surveys, designs/drawings, reports, etc.; project manager and/or project supervisor; and contracted costs for project manager and/or project supervisor if contracted separately)	\$ _____	_____ %
<b>TOTAL*:</b>	\$ <u>1,200,000</u>	<u>100</u> %

**Estimated Key Milestone Dates:**

<b>Milestones/Deliverables:</b>	<b>Date:</b>
<b>Circulate Environmental Document</b>	<b>Feb, 2006</b>
<b>Approve Environmental Document</b>	<b>August, 2006</b>
<b>Complete PS&amp;E and R/W Acquisition</b>	<b>January 2008</b>
<b>Begin Construction</b>	<b>May 1, 2008</b>
<b>Final Completion Date:</b>	<b>Fall, 2010</b>

**COMMENTS:**

Request for non-CalTrans ROW improvements for Water Quality

**Separate Cost Estimate Attached**

## APPENDIX I

### LAKE TAHOE CAPITAL PROJECT PROPOSAL

**Project Name:** Kings Beach Commercial Core Improvements

**EIP #:** 10060

**Lead Agency:** Federal Highway Administration

**Contact:** Sue Klekar, NV Division

**Threshold:** Water Quality

**Phone Number:** (775) 687-1205

**Threshold Standard:** Stormwater Runoff

**Email Address:**

[susan.klekar@fhwa.dot.gov](mailto:susan.klekar@fhwa.dot.gov)

**Is this a multi-year Project? Yes**  
(If "Yes", describe in the Detailed Project Description below number of years or phases and which year the requested funding will cover)

**Total Project Cost:** \$29,000,000

**Funding Request in this Round:**  
\$1,200,000

**Project Summary (maximum 200 words):**

FHWA in conjunction with Placer County, Caltrans, TRPA and the North Lake Tahoe Resort Association is developing a project on SR28 through the town of Kings Beach. The project will construct water quality improvements, provide bicycle and pedestrian facilities and improve the streetscape within the Commercial Core. Funding for this request will be used for water quality improvements.

**Detailed Project Description:**

The project will construct curb, gutter, and sidewalk and water quality improvements in the Kings Beach Commercial Core. Four alternatives with varying roadway widths (one lane/direction vs. two lanes/direction) are being considered as part of the environmental document for the project. (See attached Exhibits)

A Watershed Master Plan is being developed that will provide a comprehensive approach to water quality issues in the Kings Beach watershed. The Kings Beach Commercial Core Improvement Project will implement a phase of this plan.

**Describe the goals and objectives of the project:**

The purpose of the project is to:

1. Improve water quality treatment facilities.
2. Improve bicycle and pedestrian mobility within the Commercial Core area.
3. Improve the scenic and aesthetic character of the Kings Beach Commercial Core.

The need for the project is driven by the following:

1. Existing water treatment facilities do not meet TRPA or Lahontan Regional Water Quality Control Board effluent limits for target pollutants.
2. Pedestrian and Bicycle mobility is limited due to lack of facilities and space for separated travel spaces.
3. Business related infrastructure has deteriorated resulting in a degradation of the scenic qualities and thresholds established for this area.

**The goals of this project are to:**

1. Construct water quality treatment facilities that will meet regulatory requirements to the maximum extent practicable.
2. Construct dedicated bike lanes for bicyclists.
3. Construct sidewalks for pedestrians.
4. Provide streetscape elements (street furniture, etc) to enhance scenic qualities.
5. Enhance safety by organizing parking and providing an additional pedestrian crossing State Route 28.

**Describe the anticipated project accomplishments:**

Create a more vibrant, aesthetically pleasing commercial core that contributes fewer pollutants to Lake Tahoe and has fewer impacts on the greater physical environment of the Lake Tahoe Basin.

**Describe the “readiness” of this project to move forward (Environmental documentation, etc.):**

Placer County conducted a number of community meetings to define the project and to obtain input on alternatives. The County has completed many technical environmental studies including traffic, biological, and architectural. In addition, the County will complete a comprehensive watershed improvement project concurrently to address water quality concerns within the entire watershed. Potential impacts from the project were identified. The County is now preparing an administrative draft of a joint CEQA/NEPA/TRPA Code document for review in the spring of next year. Construction is anticipated to begin in Spring 2008.

**Describe partnerships for this project. (Include documentation):**

Placer County, North Lake Tahoe Resort Association and TRPA have all contributed funding for this project. A Steering Committee of government agencies (County, Caltrans, TRPA, FHWA, Lahontan RWQCB, Tahoe Conservancy) and community based associations (North Lake Tahoe Resort Association, North Tahoe Transportation Management Association, League to Save Lake Tahoe, North Tahoe Business Association) as well as community members have been participating in our project development team meetings.

The Watershed Improvement Project being conducted concurrently with the commercial core project will identify water quality alternatives that are consistent with the commercial core improvements. The County is working with the Backyard Conservation Program/BMP Retrofit Program to provide technical assistance to property owners to implement BMPs on their properties upgradient of the commercial core.

In addition, the County has partnered with, and will continue to partner with, the North Tahoe Public Utility District in their sewer/waterline replacement work. Previous ECP's in the residential area have been used extensively by U.C. Davis to research BMP effectiveness. The Watershed Improvement Project encompasses a Section of USFS owned land in which erosion source areas and potential mitigations will be addressed, including crossings of Griff Creek.

**Describe the project monitoring that will be implemented as part of this project including:**

- (1) The questions the monitoring program is designed to answer**
- (2) The monitoring approach**
- (3) Whether this project monitoring fits into a larger monitoring or research program?**

A project-effectiveness monitoring program will be developed during the design phase to allow adaptive management. The Commercial Core project is encompassed within an overall watershed improvement planning effort, which will ensure that the Commercial Core stormwater improvements are consistent with the overall storm water quality plan for the area. The size of the project will allow selective use of pilot strategies to improve water quality.

**Describe how the project results will be communicated and made-available to the public.**

Placer County has worked with a long established steering committee representing various interest groups in the area and will distribute project results through this group. We also work closely with the North Tahoe Business Association and the North Tahoe Resort Association who we keep informed regarding project status. Placer County also has a project web site that is updated frequently.

**Include an 8 ½ X 11 map depicting the project. (See attached Exhibit A)**



## Kings Beach Commercial Core Improvements Project

**2005 Cost Estimate/Funding Table**

<u>Phase</u>	<u>Timing</u>	<u>Estimated Cost</u>	<u>Current Funding</u>	<u>Current Funding Type</u>	<u>Needed Funding (Approximate)</u>
PSR/Feasibility	Complete	\$512,000	\$512,000	TRPA USFS NLTRA	\$0
Water Quality Planning Study	Current to Summer 2006	\$850,000	\$698,000	CTC	\$150K +/- CTC/USFS
Environmental	Current to Spring 2006	\$800,000	\$979,500	NLTRA USFS STIP TEA	\$0
Design	Summer 2006 – Mar 2007	\$2,000,000	\$1,068,300 \$1,200,000	STIP SNPLMA	\$0
Right of Way	Spring 2006 – Spring 2007	\$5,000,000	\$1,942,000 \$3,000,000	STIP SNPLMA	\$580,000
Construction	Spring 2008 Fall 2010	\$20,000,000	\$0		\$20,000,000

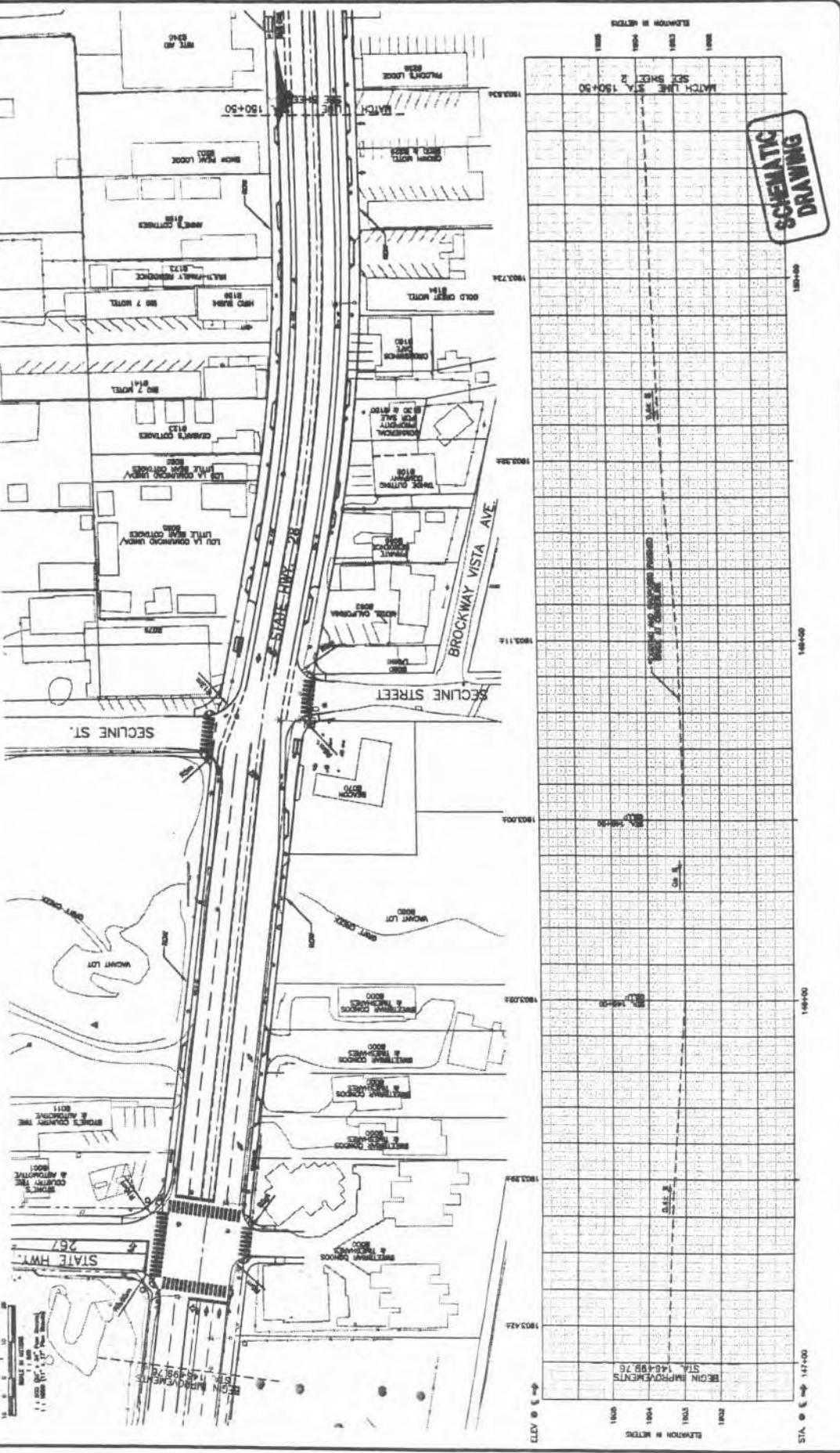
County has secured water quality grants from CTC (\$600K) and USFS (\$600K) for the Kings Beach watershed improvement project. A portion of these funds has been identified for the Kings Beach Commercial Core project. These funds are not included above but may help fund some water quality, environmental and design tasks.

**MACTEC** MACTEC Engineering and Consulting  
 1111 1st St. #100  
 Palmer, MA 01969  
 (508) 833-1111

**M** MACTEC

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**ALTERNATIVE 1 - ROADWAY CROSS SECTION:**  
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 1 - 3.6 m (12') TRAFFIC LANE EACH DIRECTION  
 1 - 3.6 m (12') TRAFFIC LANE EACH DIRECTION  
 1 - 2.4 m (8') PARKING LANE EACH DIRECTION  
 1 - 2.9 m (9'6") SIDEWALK/PLANTING AREA EACH DIRECTION  
 (SEE SHEET 7 FOR TYPICAL X-SECTION - ALTERNATIVE 1)  
 (SEE SHEET 8 FOR DOUBLE ROUNDABOUT)



**SCHEMATIC DRAWING**

**ALTERNATIVE 1 - ROADWAY CROSS SECTION:**

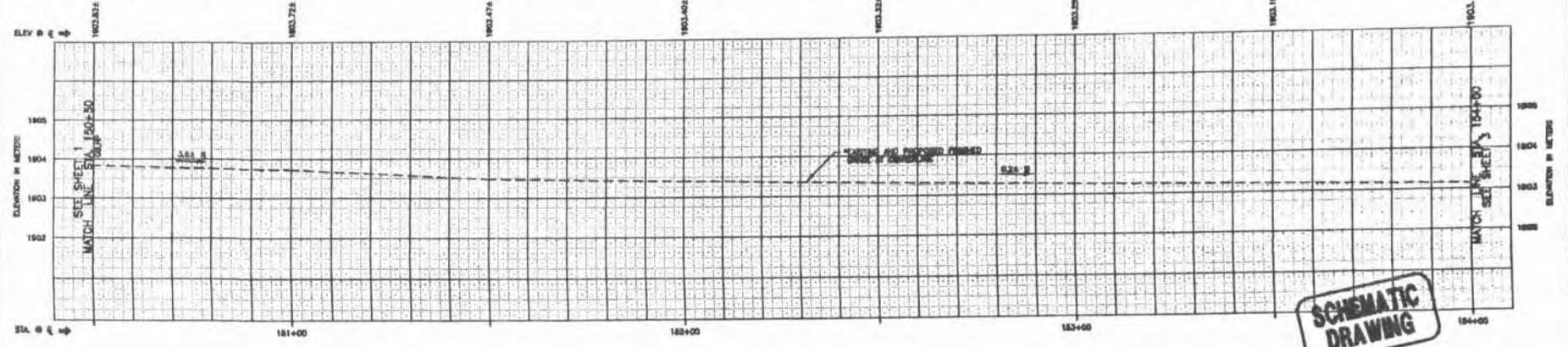
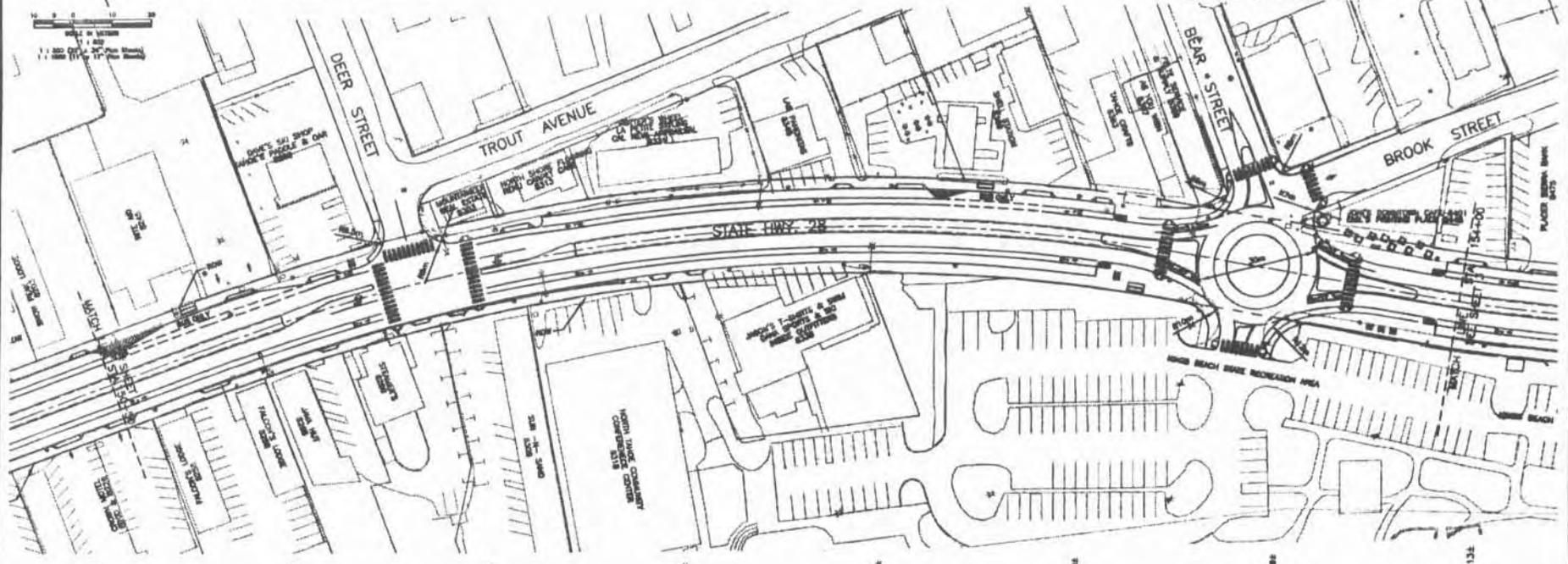
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  - 1 - 3.6 m (12') DUAL CENTER TURN LANE
  - 1 - 1.5 m (5') BIKE LANE EACH DIRECTION
  - 1 - 2.4 m (8') PARKING LANE EACH DIRECTION
  - 1 - 2.9 m (9.5') SIDEWALK/PLANTING AREA EACH DIRECTION
- (SEE SHEET 7 FOR TYPICAL X-SECTION - ALTERNATIVE 1)

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 6811 Watling Lane  
 Suite 110  
 West, NY 20002



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 CONTRACT NO. 73108

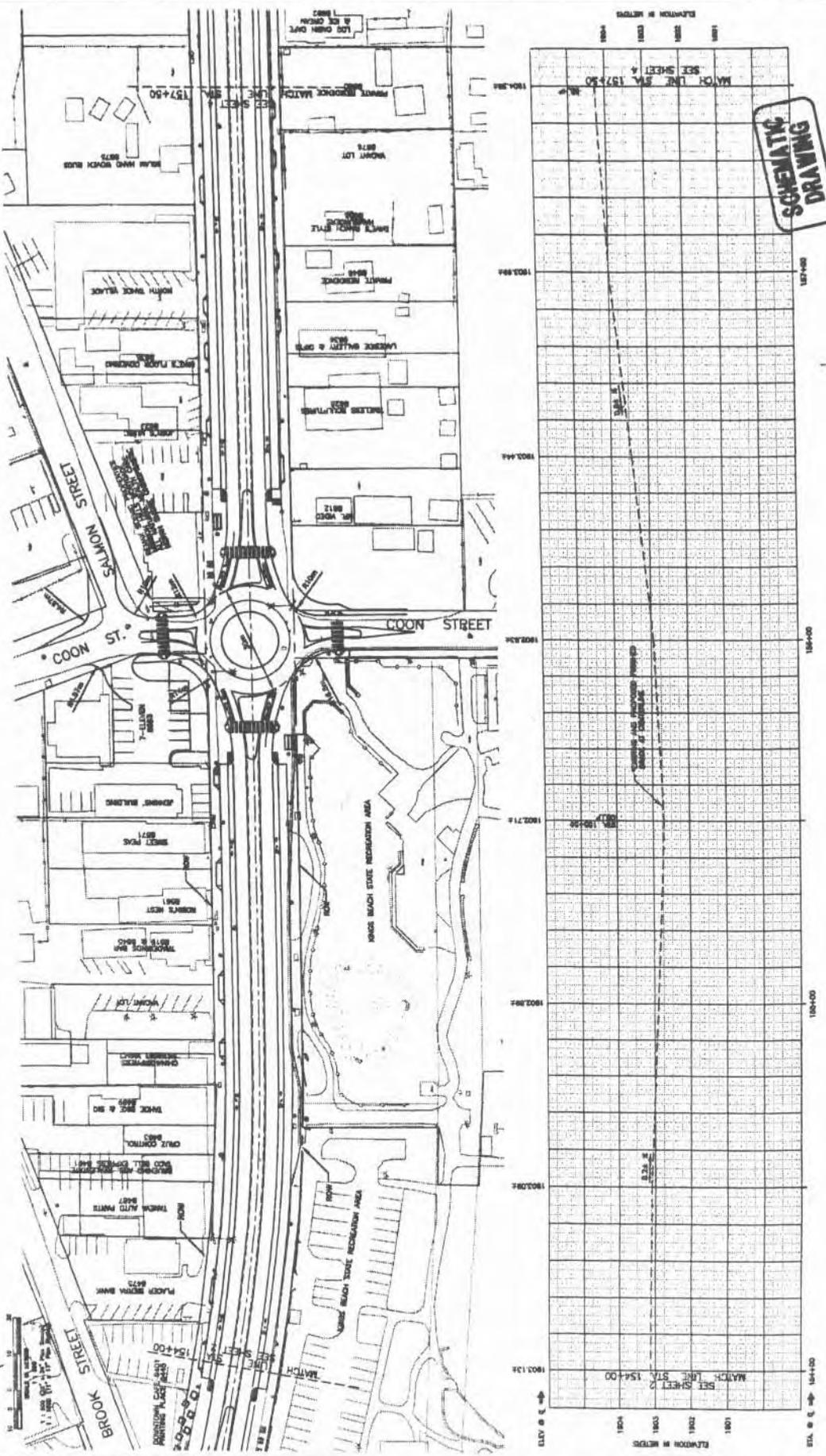
COUNTY OF PLACER  
 DEPARTMENT OF PUBLIC WORKS  
**KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT**  
 FEASIBILITY STUDY - ALTERNATIVE 1 - PLAN, PROFILE & STRIPING LAYOUT

SHEET NO. 2 OF 27

**MACTEC**  
 MACTEC Engineering and Consulting  
 10000 Kings Beach Blvd., Suite 100  
 Kings Beach, CA 95954  
 Phone: (916) 938-1100  
 Fax: (916) 938-1101  
 Website: www.mactec.com

**ALTERNATIVE 1 - ROADWAY CROSS SECTION:**

- 1 - 3.5 m (12') TRAFFIC LANE EACH DIRECTION
  - 1 - 3.6 m (12') SHOULDER EACH DIRECTION
  - 1 - 3.6 m (12') SIDEWALK EACH DIRECTION
  - 1 - 2.4 m (8') PARKING LANE EACH DIRECTION
  - 1 - 2.9 m (9') SIDEWALK PLANTING AREA EACH DIRECTION
- (SEE SHEET 7 FOR TYPICAL X-SECTION - ALTERNATIVE 1)



**SCHEMATIC DRAWING**







**ALTERNATIVE 1 - ROADWAY CROSS SECTION:**

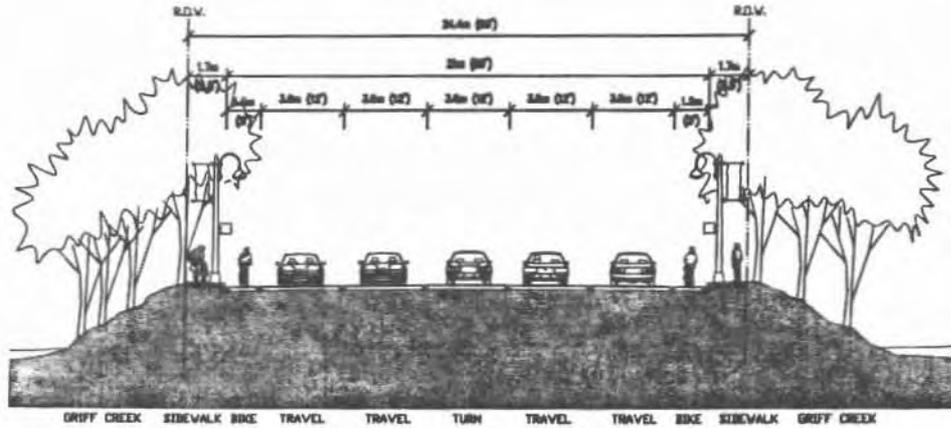
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- 1 - 3.6 m (12') DUAL CENTER TURN LANE
- 1 - 1.5 m (5') BIKE LANE EACH DIRECTION
- 1 - 2.4 m (8') PARKING LANE EACH DIRECTION
- 1 - 2.9 m (9') SIDEWALK/PLANTING AREA EACH DIRECTION  
(SEE SHEET 7 FOR TYPICAL X-SECTION - ALTERNATIVE 1)

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201 Highway Lane  
Suite 110  
Reno, NV 89502



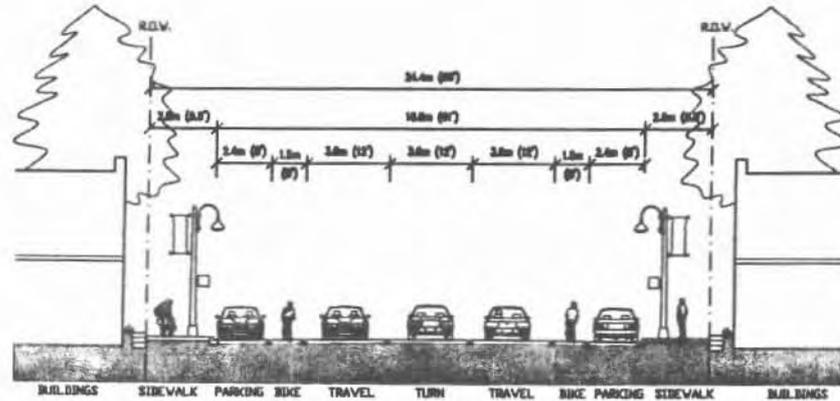
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1.00 1.00 PLAN SHEETS



**B 3-LANE ALTERNATIVE 1 - SECLINE TO CHIPMUNK**

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1.00 1.00 PLAN SHEETS

PLAN SCALE: 1:500  
PROFILE SCALE:  
DATE: 3.18.08  
BY: J.S.

CONTRACT NO. 73108  
DATE: 4/18/08  
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BY: J.S.

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**ALTERNATIVE 2 - ROADWAY CROSS SECTION:**

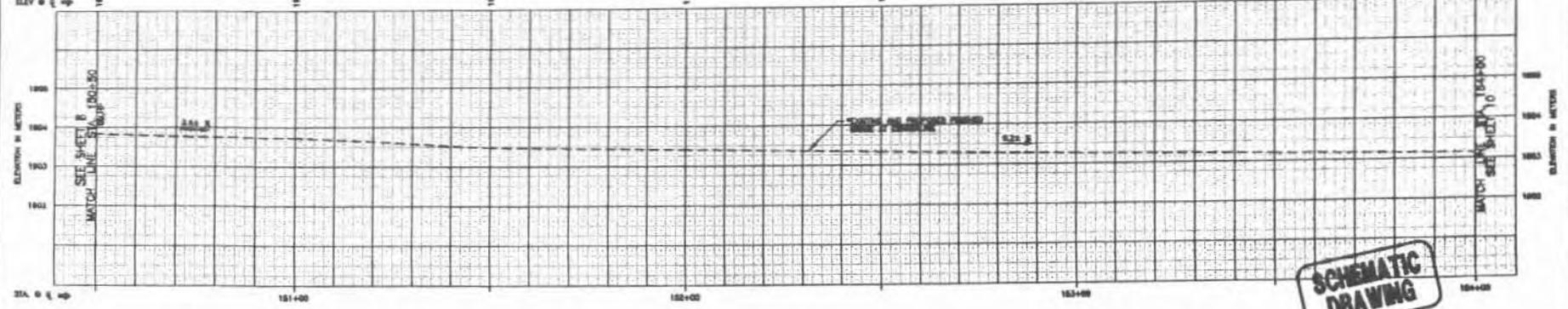
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  - 1 - 2.4 m (8ft) PARKING LANE EACH DIRECTION
  - 1 - 1.7 m (5ft) SIDEWALKS EACH DIRECTION
- (SEE SHEET 13 FOR TYPICAL X-SECTION - ALTERNATIVE 2)

**MACTEC** MACTEC Engineering and Consulting  
 180 Spring Lane  
 Suite 110  
 York, PA 17402



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SHEET NO. 9 OF 27

**ALTERNATIVE 2 - ROADWAY CROSS SECTION:**

- 2 - 3.3 m (11') TRAFFIC LANES EACH DIRECTION
- 1 - 1.5 m (5') BIKE LANE EACH DIRECTION
- 1 - 2.4 m (8') PARKING LANE EACH DIRECTION
- 1 - 1.7 m (5.5') SIDEWALKS EACH DIRECTION
- (SEE SHEET 13 FOR TYPICAL X-SECTION - ALTERNATIVE 2)

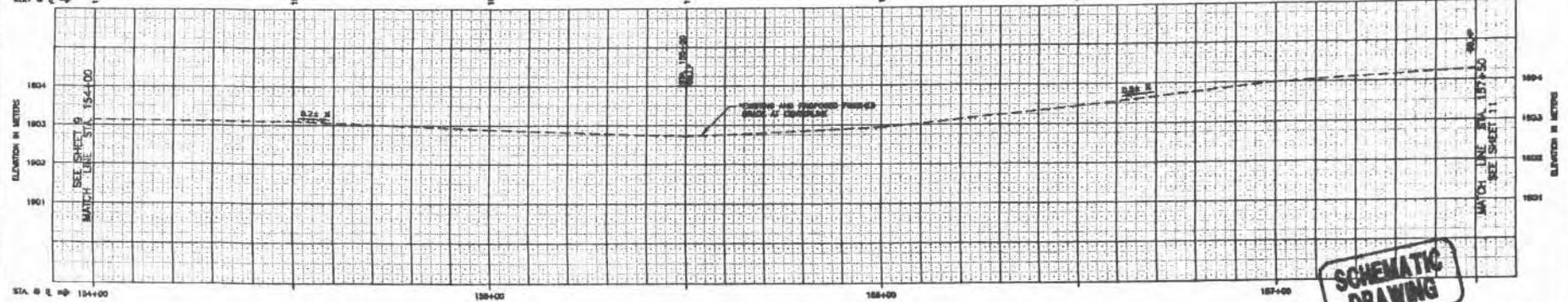
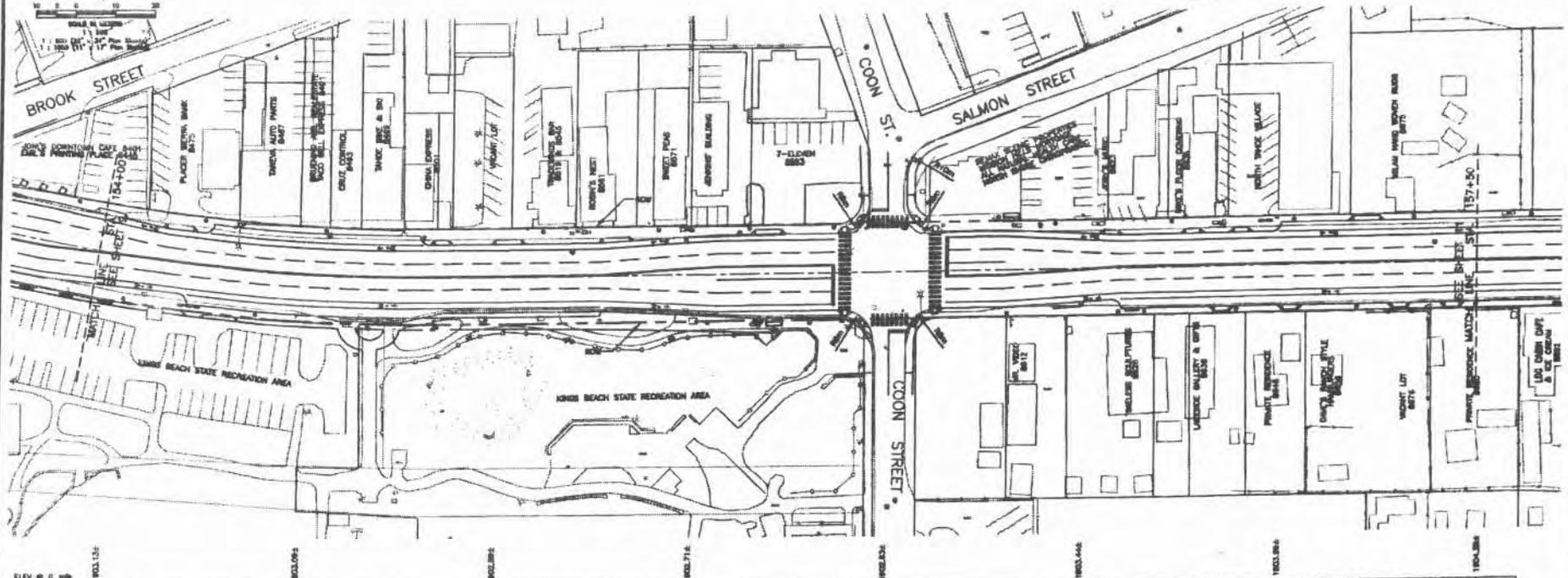


MACTEC Engineering and Consulting  
 8671 Manning Lane  
 Suite 110  
 Bannockburn, IL 60015



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SHEET NO. 10 OF 27

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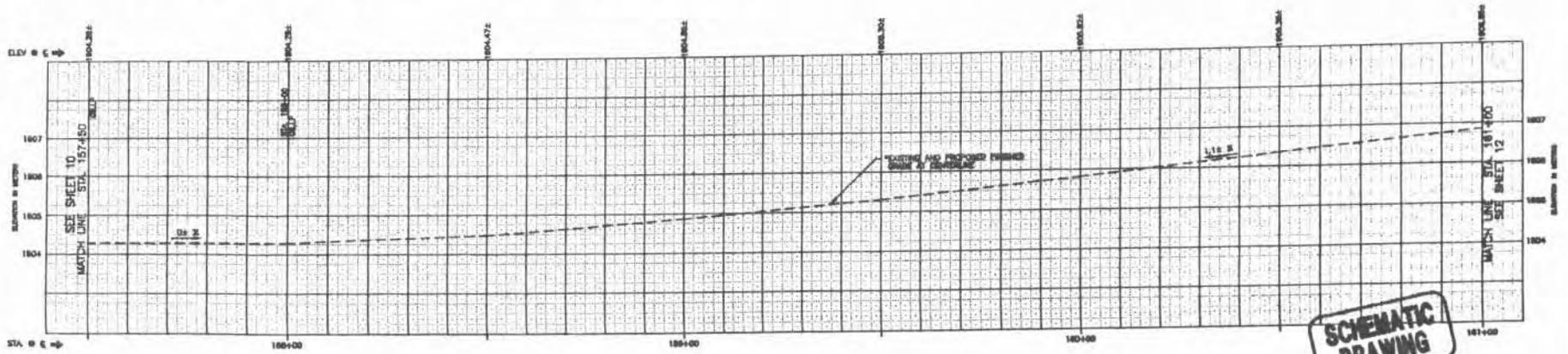
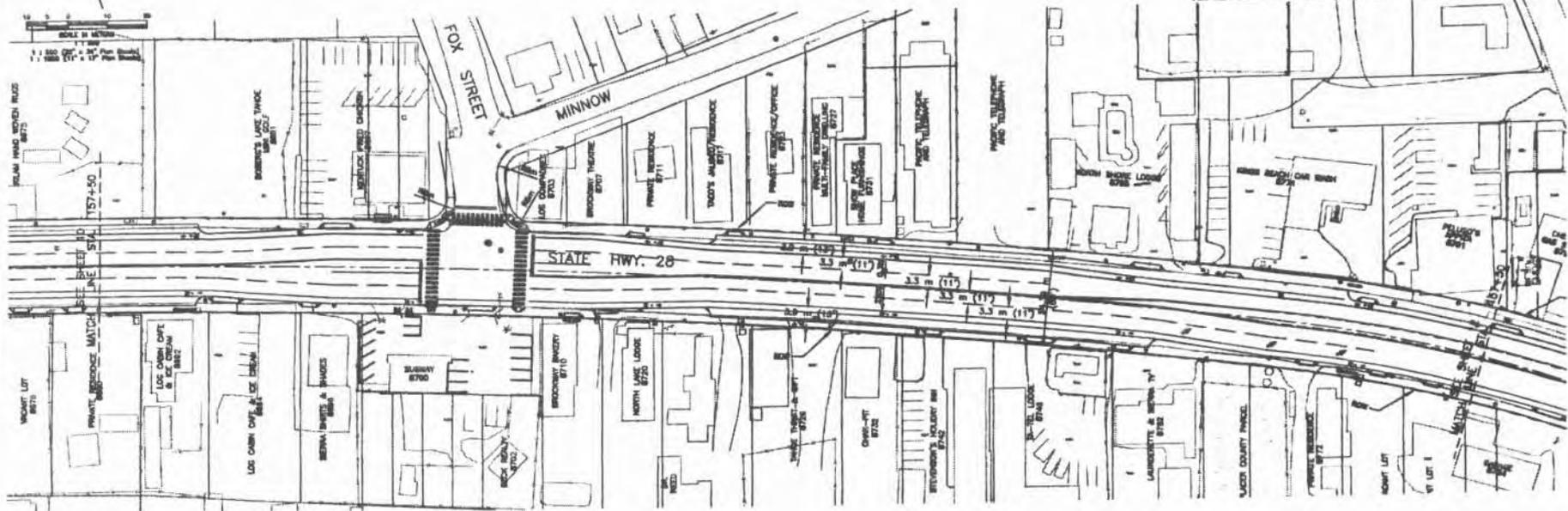
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  - 1 - 1.5 m (5') BIKE LANE EACH DIRECTION
  - 1 - 2.4 m (8') PARKING LANE EACH DIRECTION
  - 1 - 1.7 m (5.5') SIDEWALKS EACH DIRECTION
- (SEE SHEET 13 FOR TYPICAL X-SECTION - ALTERNATIVE 2)

**MACTEC** MACTEC Engineering and Consulting  
 504 Hasty Lane  
 Suite 100  
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	DATE RECORDED: 5/26/09

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REVISIONS: 08
DATE: 5/26/09
BY: JRM

COUNTY OF PALMER DEPARTMENT OF PUBLIC WORKS  
**KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT**  
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SHEET NO. 11 of 27



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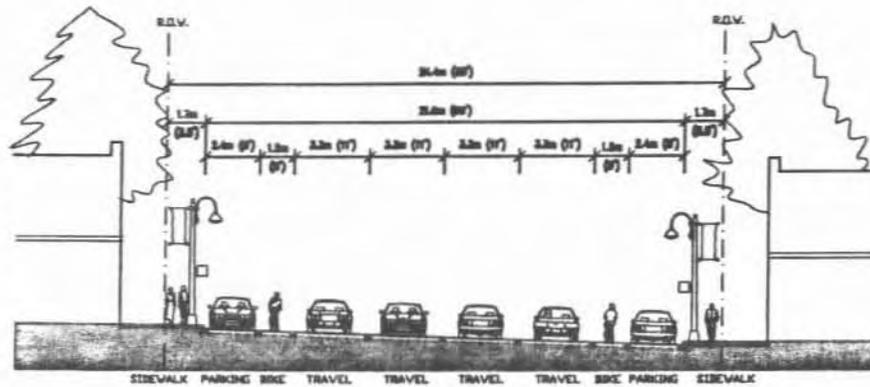
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 1 - 1.7 m (5½') SIDEWALKS EACH DIRECTION  
 (SEE SHEET 13 FOR TYPICAL X-SECTION - ALTERNATIVE 2)

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 801 Mallory Lane  
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 APPROVED BY: JRM  
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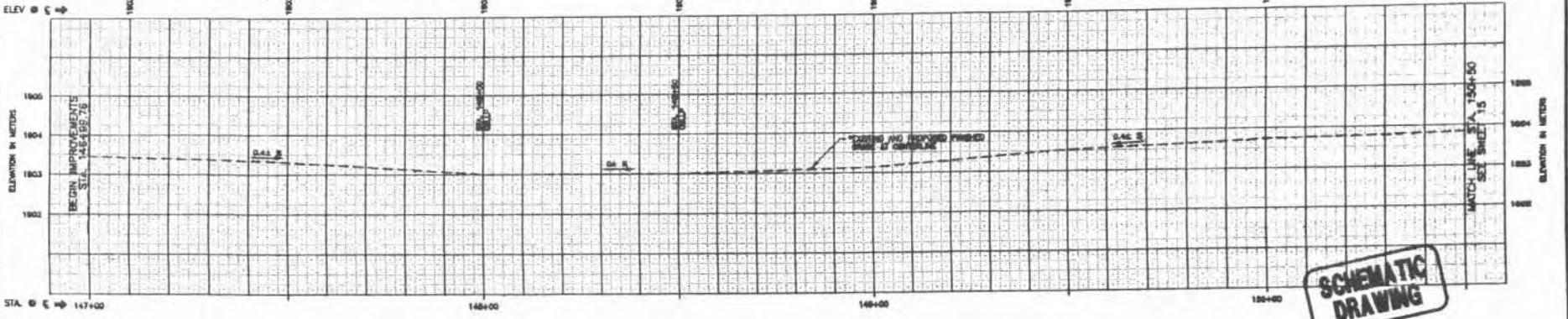
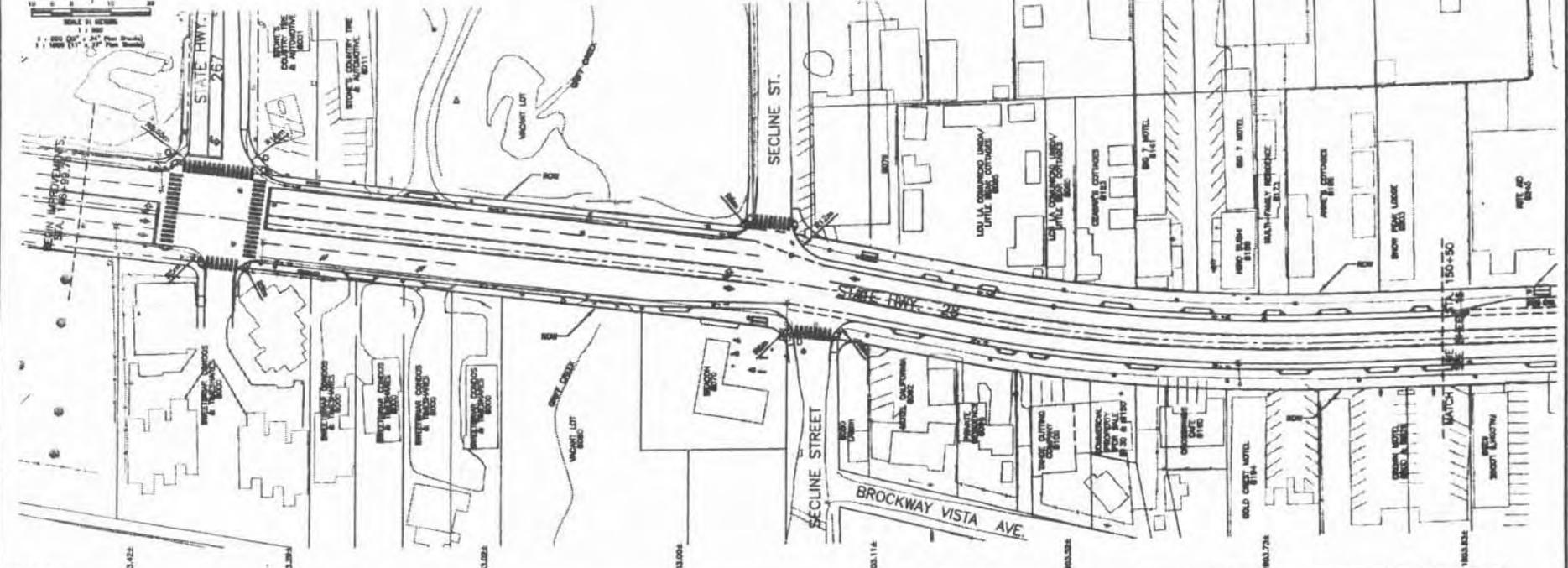
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- 1 - 1.5 m (5') BIKE LANE EACH DIRECTION
- 1 - 5.3 m (18') SIDEWALK/PLANTING AREA EACH DIRECTION  
(SEE SHEET 20 FOR TYPICAL X-SECTION - ALTERNATIVE 3)  
(SEE SHEET 19 FOR DOUBLE ROUNDABOUT)

**MACTEC** MACTEC Engineering and Consulting  
 836 Halsey Lane  
 Suite 110  
 San, NY 10988



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SHEET NO. 14 OF 27

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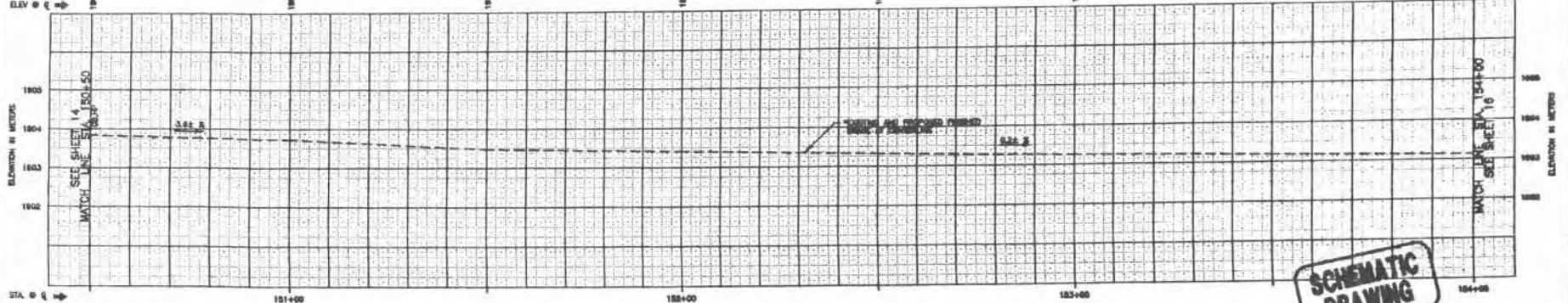
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- (SEE SHEET 20 FOR TYPICAL X-SECTION - ALTERNATIVE 3)

**MACTEC** MACTEC Engineering and Consulting  
 951 Mulloy Lane  
 Suite 110  
 Bannockburn, WI 53015



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 OF 27





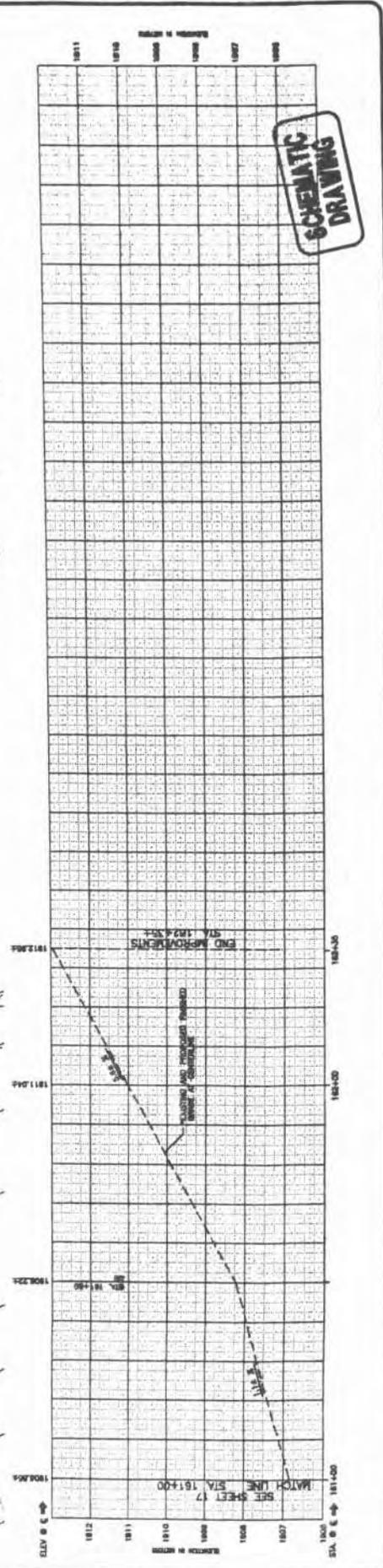
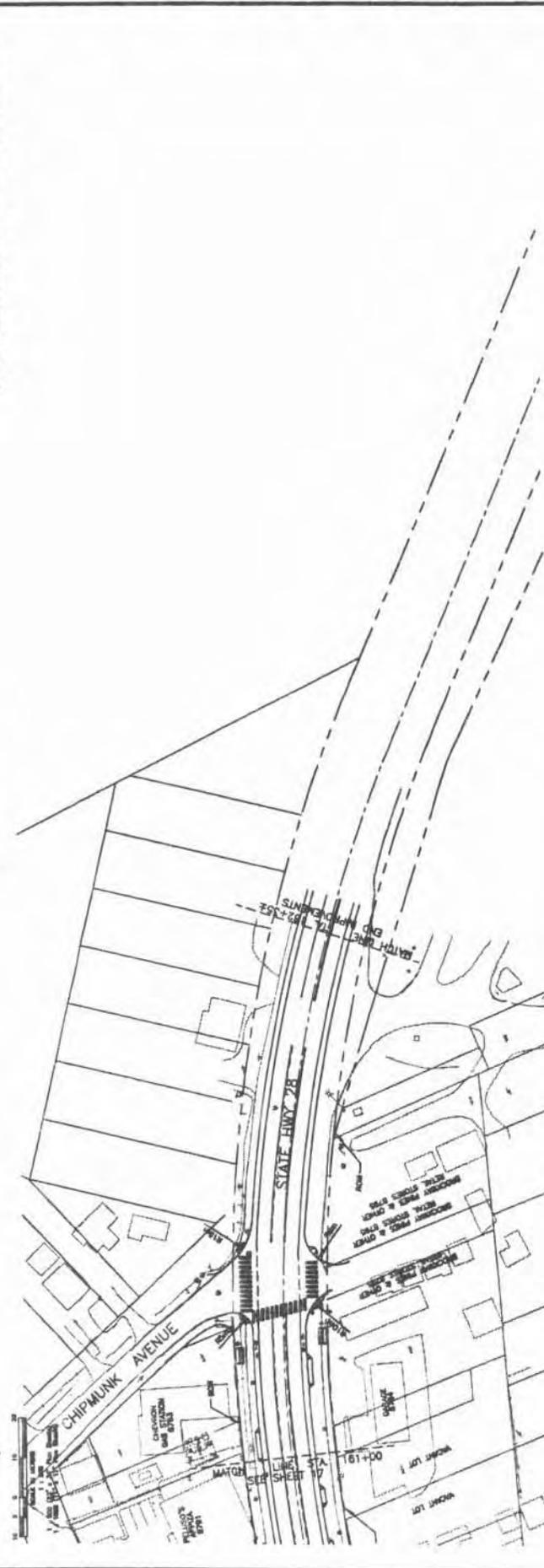
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SHEET NO. 18 of 27

**MACTEC** MACTEC Engineering and Consulting  
 10000 Kings Beach Blvd., Suite 100  
 Kings Beach, CA 95954  
 (916) 938-1000

**ALTERNATIVE 3 - ROADWAY CROSS SECTION:**  
 1 - 3.8 m (12') TRAFFIC LANE EACH DIRECTION  
 1 - 3.8 m (12') DUAL CENTER TURN LANE  
 1 - 1.5 m (5') BIKE LANE IN EACH DIRECTION  
 1 - 5.3 m (17') TOTAL WIDTH IN EACH DIRECTION  
 (SEE SHEET 20 FOR TYPICAL X-SECTION - ALTERNATIVE 3)



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- 1 - 1.5 m (5') BIKE LANE EACH DIRECTION
- 1 - 5.3 m (18') SIDEWALK/PLANTING AREA EACH DIRECTION
- (SEE SHEET 20 FOR TYPICAL X-SECTION - ALTERNATIVE 3)

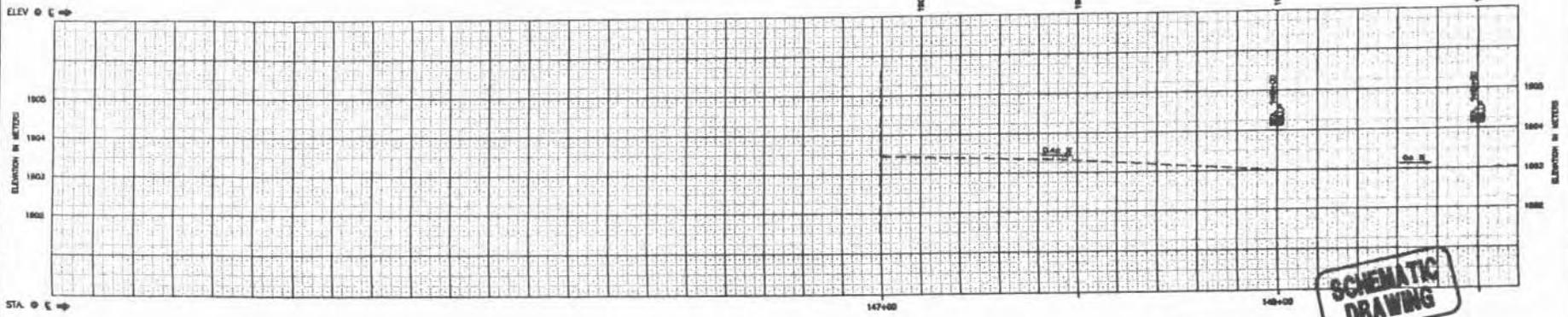
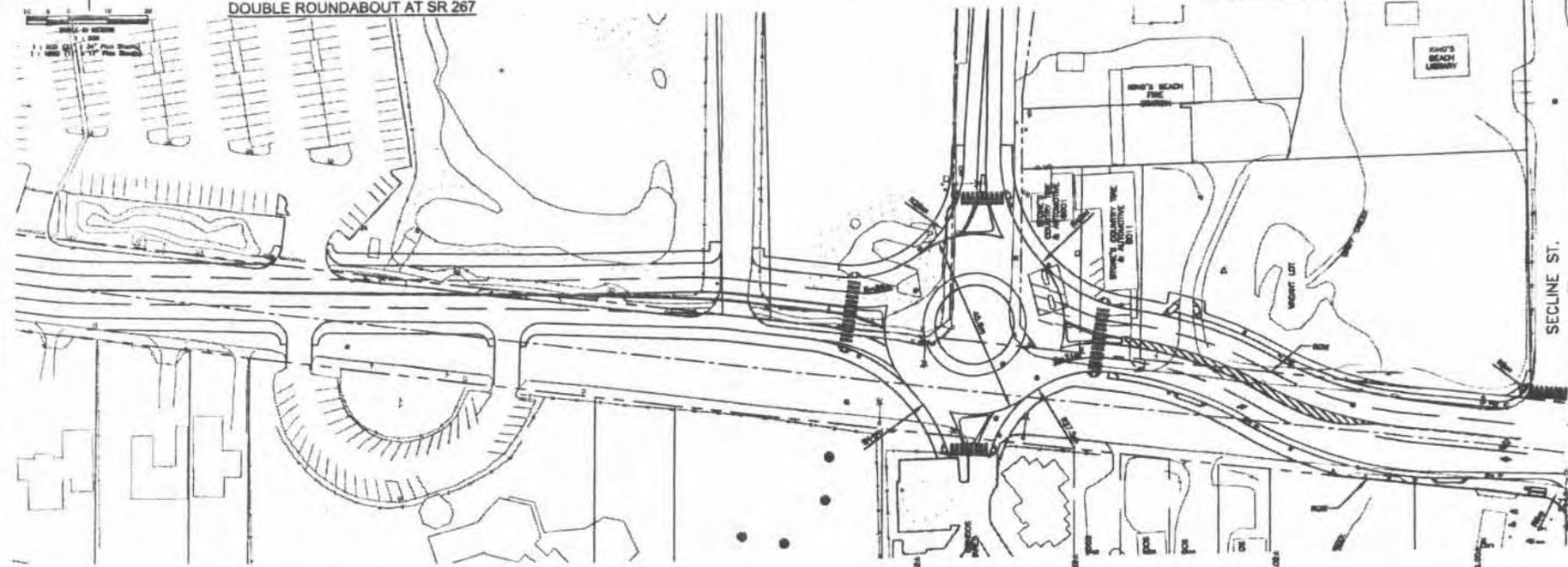
**MACTEC** MACTEC Engineering and Consulting  
 801 Marley Lane  
 Suite 110  
 Rose, NY 14552



NO.	DATE	DESCRIPTION OF WORK	DESIGNED BY	CHECKED BY

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

**DOUBLE ROUNDABOUT AT SR 267**



PLANNING & DESIGN  
 PROJECT NO. 73108  
 SHEET NO. 19 of 27

CONTRACT NO. 73108

DEPARTMENT OF PUBLIC WORKS  
 COUNTY OF PLACER  
 KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT  
 FEASIBILITY STUDY - ALTERNATIVE 3 - PLAN, PROFILE & STRIPING LAYOUT

**ALTERNATIVE 3 - ROADWAY CROSS SECTION:**

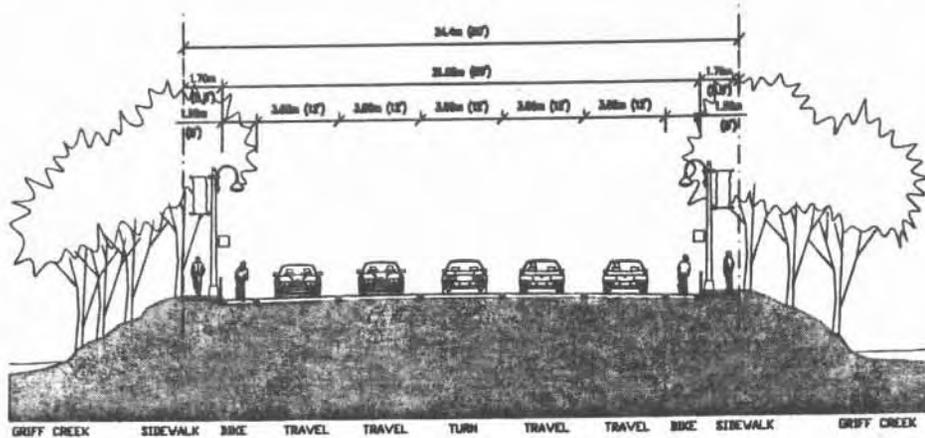
1 - 3.6 m (12') TRAFFIC LANE EACH DIRECTION  
 1 - 3.6 m (12') DUAL CENTER TURN LANE  
 1 - 1.5 m (5') BIKE LANE EACH DIRECTION  
 1 - 5.3 m (18') SIDEWALK/PLANTING AREA EACH DIRECTION  
 (SEE SHEET 20 FOR TYPICAL X-SECTION - ALTERNATIVE 3)

**MACTEC** MACTEC Engineering and Consulting  
 801 Highway Lane  
 Suite 110  
 Rock, NY 14880



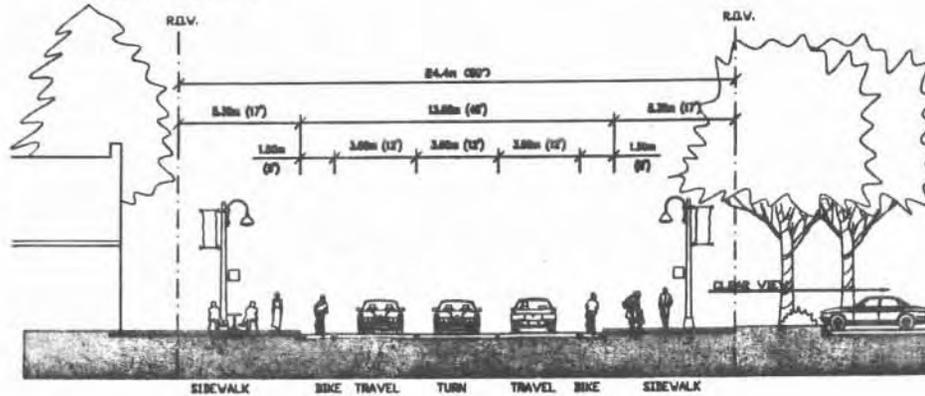
NO.	DATE	REVISIONS OR SHEET NO.	DESIGNED BY	CHECKED BY

THE COUNTY OF PLAZER OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETION OF ELECTRONIC COPIES OF THIS PLAN SHEET.



**A** 3-LANE ALTERNATIVE 3 - 267 TO SECLINE

SEE DEPARTMENT PLANS SHEETS  
 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000



**B** 3-LANE ALTERNATIVE 3 - SECLINE TO CHIPMUNK

SEE DEPARTMENT PLANS SHEETS  
 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 CONTRACT NO.: 73108  
 SHEET NO.: 20 OF 27

DEPARTMENT OF PUBLIC WORKS  
 COUNTY OF PLAZER  
 KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT  
 FEASIBILITY STUDY - ALTERNATIVE 3 - PLAN, PROFILE & STRIPING LAYOUT

DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 CONTRACT NO.: 73108  
 SHEET NO.: 20 OF 27



**ALTERNATIVE 4 - ROADWAY CROSS SECTION:**

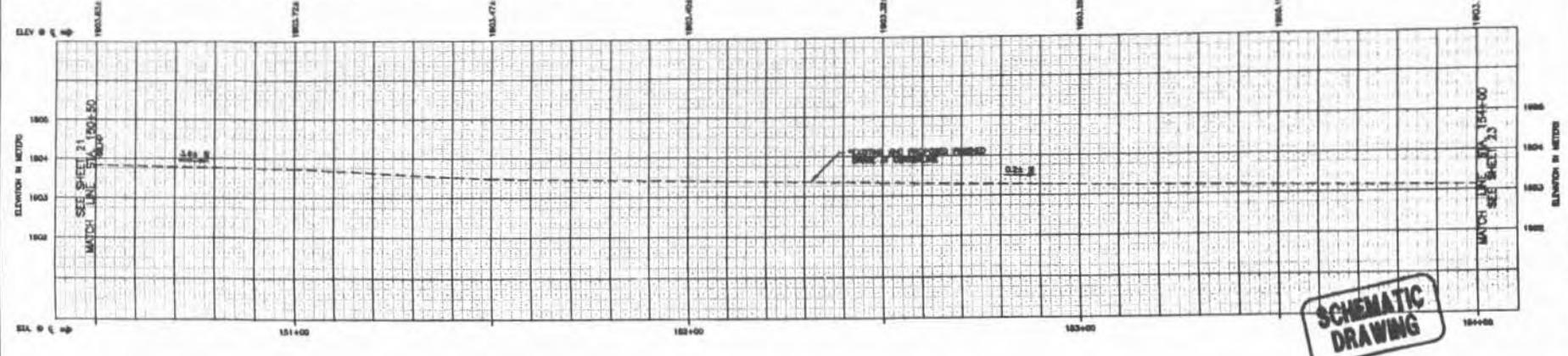
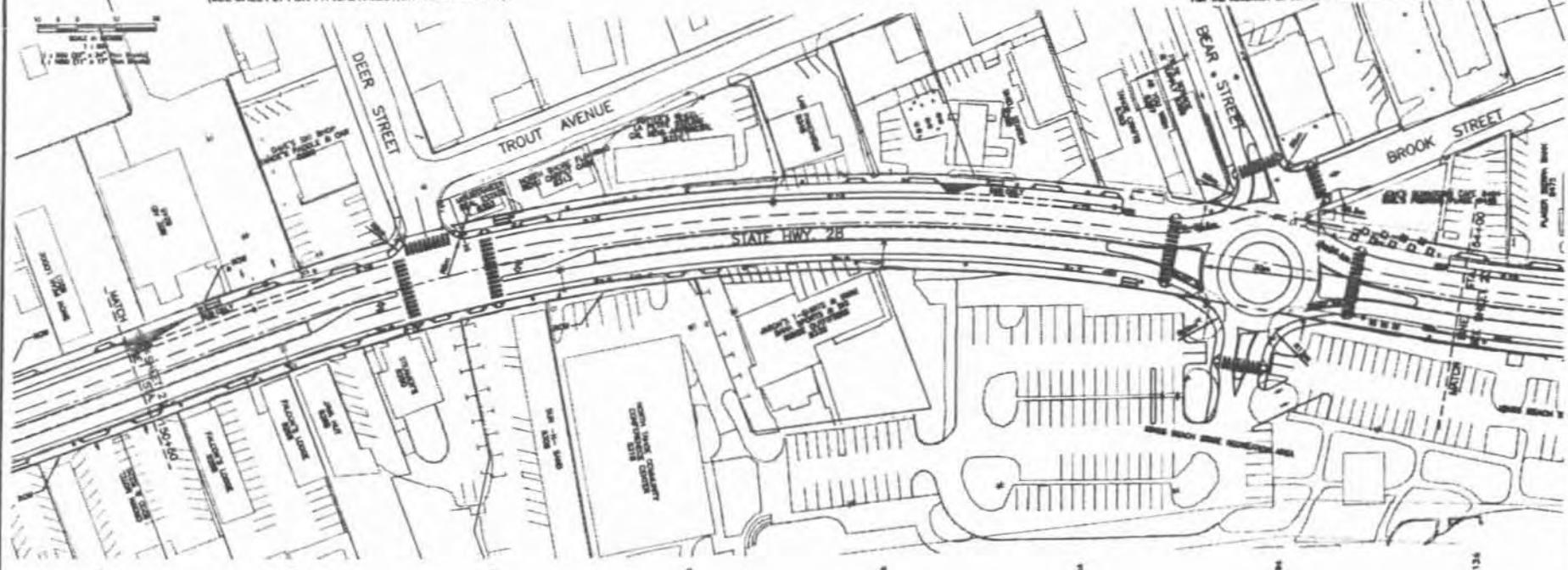
- 1 - 3.6 m (12') TRAFFIC LANE EASTBOUND
  - 2 - 3.6 m (12') TRAFFIC LANES WESTBOUND
  - 1 - 3.6 m (12') DUAL CENTER TURN LANE
  - 1 - 1.5 m (5') BIKE LANE EACH DIRECTION
  - 1 - 2.4 m (8') PARKING LANE WESTBOUND
  - 1 - 2.3 m (7.5') SIDEWALK/PLANTING AREA EACH DIRECTION
- (SEE SHEET 27 FOR TYPICAL X-SECTION - ALTERNATIVE 4)

**MACTEC** MACTEC Engineering and Consulting  
 981 Highway Lane  
 Suite 110  
 Reno, NV 89502



NO.	DATE	DESCRIPTION	BY

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



PLAN SCALE: 1:500  
 PROFILE SCALE: 1"=10'  
 NORTH: NORTH  
 UNIT: METERS

CONTRACT NO. 73108

COUNTY OF PLAZER  
 DEPARTMENT OF PUBLIC WORKS  
**KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT**  
 FEASIBILITY STUDY - ALTERNATIVE 4 - PLAN, PROFILE & STRIPING LAYOUT

SHEET NO. 22  
 OF 27





**ALTERNATIVE 4 - ROADWAY CROSS SECTION:**

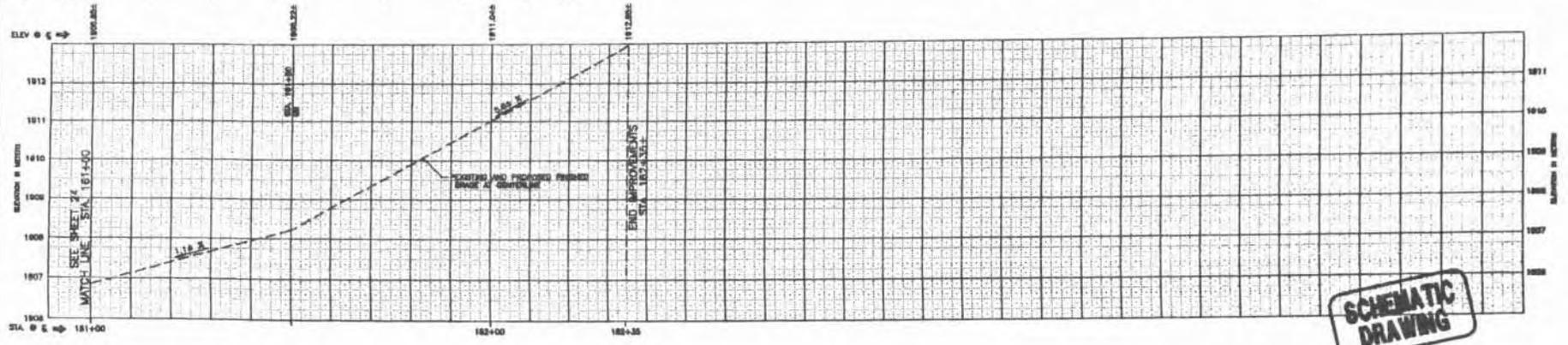
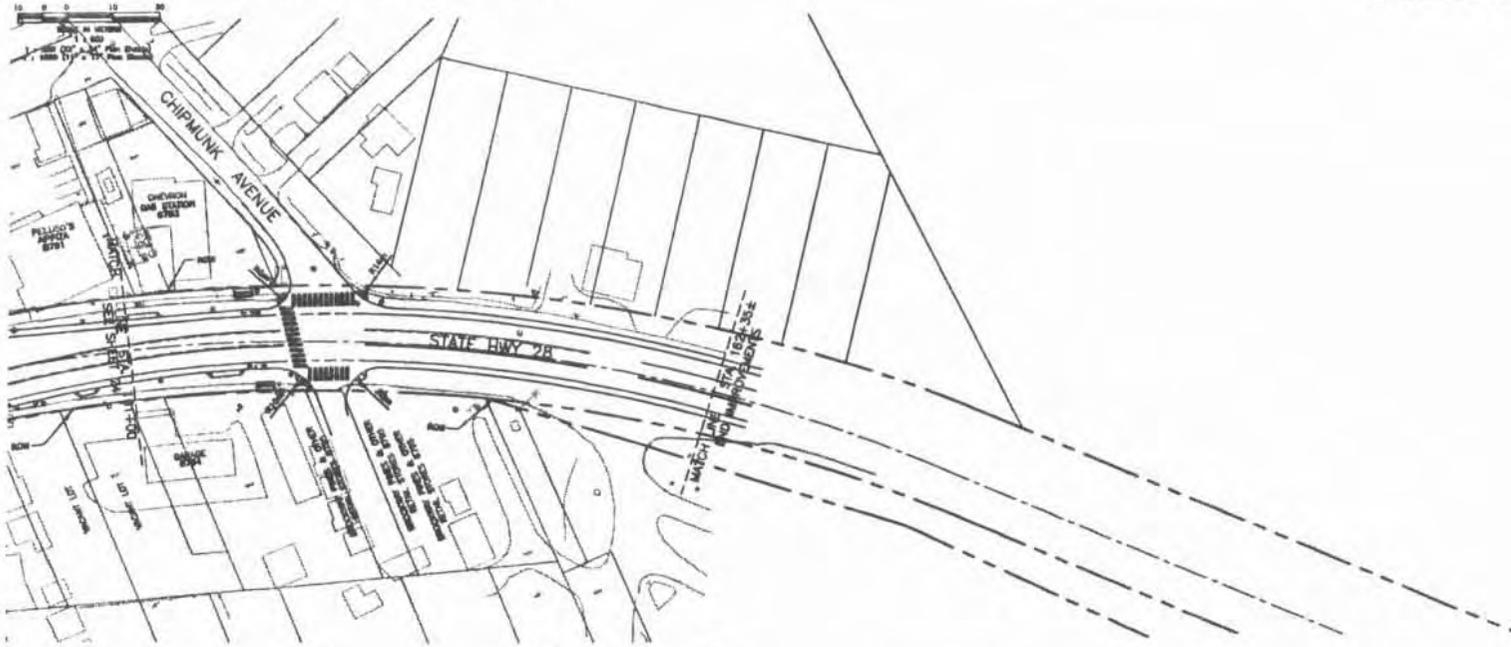
- 1- 3.6 m (12') TRAFFIC LANE EASTBOUND
  - 2- 3.6 m (12') TRAFFIC LANES WESTBOUND
  - 1- 3.6 m (12') DUAL CENTER TURN LANE
  - 1- 1.5 m (5') BIKE LANE EACH DIRECTION
  - 1- 2.4 m (8') PARKING LANE WESTBOUND
  - 1- 2.3 m (7.5') SIDEWALK/PLANTING AREA EACH DIRECTION
- (SEE SHEET 27 FOR TYPICAL X-SECTION - ALTERNATIVE 4)

**MACTEC** MACTEC Engineering and Consulting  
 881 Hocking Lane  
 Suite 110  
 Rome, NY 13423



NO.	DATE	DESCRIPTION	BY	CHKD.

THE COUNTY OF PLACER OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETION OF SURVEYING WORK OF THIS PLAN SHEET.



**SCHEMATIC DRAWING**

PLAN SCALE: 1"=30'  
 PROFILE SCALE: 1"=10'  
 DATE: 4/20/08  
 DRAWN BY: JMB  
 CHECKED BY: JMB

CONTRACT NO. 73108

COUNTY OF PLACER DEPARTMENT OF PUBLIC WORKS  
 KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT  
 FEASIBILITY STUDY - ALTERNATIVE 4 - PLAN, PROFILE & STRIPING LAYOUT

SHEET NO. 25 OF 27



**ALTERNATIVE 4 - ROADWAY CROSS SECTION:**

- 1 - 3.6 m (12') TRAFFIC LANE EASTBOUND
- 2 - 3.6 m (12') TRAFFIC LANES WESTBOUND
- 1 - 3.6 m (12') DUAL CENTER TURN LANE
- 1 - 1.5 m (5') BIKE LANE EACH DIRECTION
- 1 - 2.4 m (8') PARKING LANE WESTBOUND
- 1 - 2.3 m (7.5') SIDEWALK/PLANTING AREA EACH DIRECTION  
(SEE SHEET 27 FOR TYPICAL X-SECTION - ALTERNATIVE 4)

**MACTEC** MACTEC Engineering and Consulting  
 901 Haring Lane  
 Suite 110  
 Reno, NV 89505



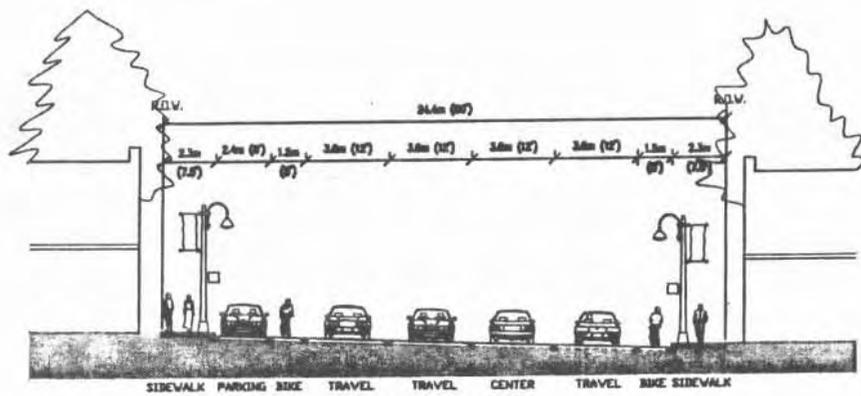
NO.	DATE	DESCRIPTION OF REVISION	BY	CHKD.

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PLAN SCALE: 1"=30'  
 PROFILE SCALE: 1"=10'  
 NORTH: [Symbol]

DATE: 4/18/20  
 CONTRACT NO. 73108

DEPARTMENT OF PUBLIC WORKS  
 COUNTY OF PLACER  
 KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT  
 FEASIBILITY STUDY - ALTERNATIVE 4 - PLAN, PROFILE & STRIPING LAYOUT



**A** ALTERNATIVE 4 - 267 TO CHIPMUNK  
 003 267 TO 267+100  
 0200 1:00 PM 4/18/20