# APPENDIX 6

## UPDATED MASTER PLAN METHODOLOGY RESULTS AS APPLIED TO CURRENT SURCHARGE PROJECT BLOCKS

Included herein are the complete results of the new Master Plan's methodology as applied to current Surcharge project blocks. Upon review of this UUP Master Plan Update – Factors and Method report by City, the analysis described herein will be applied to carry out the new updated Utility Undergrounding Master Plan.

# APPENDIX 6

# DISTRICT 1

Appendix 6

Updated 2009 Master Plan with Applied Current Algorithms

| BLOCK_ID1 | CIP_ID | Council District | INTERSECTIONS | Backlot_Poles | ALLEY_Poles | OH_Poles | XFMR_Count | Meters | P_Length | ServiceDrop | SUB_Count |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | UU310 | 1 | 11 | 44 | 19 | 97 | 27 | 321 | 10,700.49 | 261 | 0 |
| 1A1 | UU215 | 1 | 31 | 10 | 50 | 99 | 22 | 287 | 12,404.99 | 260 | 0 |
| 1A2 | UU395 | 1 | 15 | 17 | 44 | 86 | 27 | 339 | 11,468.50 | 259 | 0 |
| 1B | UU660 | 1 | 26 | 17 | 43 | 95 | 33 | 263 | 12,089.03 | 181 | 0 |
| 1C | UU661 | 1 | 16 | 10 | 36 | 70 | 25 | 610 | 7,313.01 | 187 | 0 |
| 1C1 | UU662 | 1 | 21 | 51 | 5 | 109 | 27 | 557 | 12,744.67 | 248 | 0 |
| 1D | UU663 | 1 | 13 | 24 | 23 | 99 | 21 | 415 | 10,670.11 | 184 | 0 |
| 1E | UU312 | 1 | 15 | 16 | 15 | 71 | 23 | 524 | 7,194.37 | 245 | 0 |
| 1G | UU313 | 1 | 10 | 16 | 45 | 89 | 27 | 473 | 6,768.63 | 152 | 0 |
| 1H | UU229 | 1 | 13 | 42 | 0 | 95 | 26 | 255 | 8,645.55 | 205 | 0 |
| 1I | UU230 | 1 | 13 | 26 | 1 | 68 | 20 | 285 | 7,626.89 | 157 | 0 |
| 1K | UU796 | 1 | 16 | 70 | 0 | 143 | 31 | 306 | 22,747.89 | 273 | 0 |
| 1L | UU664 | 1 | 18 | 28 | 31 | 121 | 35 | 633 | 10,896.84 | 181 | 0 |
| 1L1 | UU783 | 1 | 30 | 11 | 28 | 116 | 32 | 430 | 11,828.07 | 246 | 0 |
| 1N | UU658 | 1 | 8 | 20 | 0 | 86 | 28 | 160 | 11,376.66 | 138 | 0 |
| 1O | UU657 | 1 | 12 | 20 | 0 | 113 | 31 | 333 | 16,405.92 | 289 | 0 |
| 1P | UU486 | 1 | 5 | 25 | 0 | 33 | 10 | 22 | 5,262.69 | 22 | 0 |
| 1S | UU232 | 1 | 14 | 11 | 0 | 84 | 28 | 319 | 13,770.92 | 270 | 0 |
| 1T | UU318 | 1 | 14 | 6 | 4 | 71 | 23 | 318 | 12,361.58 | 260 | 0 |
| 1U | UU321 | 1 | 16 | 24 | 0 | 66 | 20 | 291 | 11,680.97 | 286 | 0 |
| 1V | UU320 | 1 | 14 | 20 | 0 | 70 | 25 | 363 | 11,986.26 | 325 | 0 |
| 1V1 | UU319 | 1 | 16 | 10 | 0 | 85 | 26 | 354 | 13,791.74 | 314 | 0 |
| 1W | UU797 | 1 | 2 | 45 | 0 | 66 | 16 | 79 | 11,272.77 | 36 | 1 |

Appendix 6
Updated 2009 Master Plan with Applied Current Algorithms

| BLOCK_ID1 | TOTAL_CONST_SUM | CHANGE_ORDERS_COST | PRGM_MGMT_COST | ENGNR_SRVCS_COST | BLOCK_COST |
|---|---|---|---|---|---|
| 1A | $6,153,452 | $615,345 | $492,276 | $738,414 | $7,999,487 |
| 1A1 | $6,582,164 | $658,216 | $526,573 | $789,860 | $8,556,813 |
| 1A2 | $6,323,576 | $632,358 | $505,886 | $758,829 | $8,220,649 |
| 1B | $6,270,223 | $627,022 | $501,618 | $752,427 | $8,151,290 |
| 1C | $4,417,330 | $441,733 | $353,386 | $530,080 | $5,742,529 |
| 1C1 | $6,840,620 | $684,062 | $547,250 | $820,874 | $8,892,806 |
| 1D | $5,550,016 | $555,002 | $444,001 | $666,002 | $7,215,021 |
| 1E | $4,662,763 | $466,276 | $373,021 | $559,532 | $6,061,592 |
| 1G | $4,127,474 | $412,747 | $330,198 | $495,297 | $5,365,716 |
| 1H | $5,110,631 | $511,063 | $408,850 | $613,276 | $6,643,820 |
| 1I | $4,273,811 | $427,381 | $341,905 | $512,857 | $5,555,954 |
| 1K | $10,586,302 | $1,058,630 | $846,904 | $1,270,356 | $13,762,192 |
| 1L | $5,975,950 | $597,595 | $478,076 | $717,114 | $7,768,735 |
| 1L1 | $6,549,976 | $654,998 | $523,998 | $785,997 | $8,514,969 |
| 1N | $5,628,355 | $562,836 | $450,268 | $675,403 | $7,316,862 |
| 1O | $8,304,218 | $830,422 | $664,337 | $996,506 | $10,795,483 |
| 1P | $2,420,658 | $242,066 | $193,653 | $290,479 | $3,146,856 |
| 1S | $7,155,438 | $715,544 | $572,435 | $858,653 | $9,302,070 |
| 1T | $6,474,718 | $647,472 | $517,977 | $776,966 | $8,417,133 |
| 1U | $6,362,429 | $636,243 | $508,994 | $763,491 | $8,271,157 |
| 1V | $6,780,863 | $678,086 | $542,469 | $813,704 | $8,815,122 |
| 1V1 | $7,365,788 | $736,579 | $589,263 | $883,895 | $9,575,525 |
| 1W | $4,914,024 | $491,402 | $393,122 | $589,683 | $6,388,231 |

Appendix 6
CIVIL WORK COSTS

| BLOCK_ID1 | Pub_Notice_Cost | Joint_Trench_Cost | Non_Joint_Trench_Cost | Cust_Trench_Cost | Road_Resurf_Cost | Streetlights_Cost | Curb_Ramp_Cost | Permits_Inspections_Cost | Tree_Cost | SWPPP_Cost | Traff_Control_Cost | Civil_Subtotal_Cost | CIVIL_OAP | CIVIL_SUM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | $5,710 | $1,230,556 | $205,072 | $391,500 | $369,167 | $428,020 | $16,500 | $10,440 | $5,742 | $153,820 | $45,000 | $2,861,527 | $572,305 | $3,433,832 |
| 1A1 | $5,370 | $1,426,574 | $237,739 | $390,000 | $427,972 | $496,200 | $46,500 | $10,400 | $5,720 | $178,322 | $45,000 | $3,269,797 | $653,959 | $3,923,756 |
| 1A2 | $5,890 | $1,318,878 | $219,791 | $388,500 | $395,663 | $458,740 | $22,500 | $10,360 | $5,698 | $164,860 | $45,000 | $3,035,880 | $607,176 | $3,643,056 |
| 1B | $5,130 | $1,390,238 | $231,683 | $271,500 | $417,071 | $483,561 | $39,000 | $7,240 | $3,982 | $173,780 | $45,000 | $3,068,185 | $613,637 | $3,681,822 |
| 1C | $8,600 | $840,996 | $140,152 | $280,500 | $252,299 | $292,520 | $24,000 | $7,480 | $4,114 | $105,124 | $45,000 | $2,000,785 | $400,157 | $2,400,942 |
| 1C1 | $8,070 | $1,465,638 | $244,249 | $372,000 | $439,691 | $509,787 | $31,500 | $9,920 | $5,456 | $183,205 | $45,000 | $3,314,516 | $662,903 | $3,977,419 |
| 1D | $6,650 | $1,227,063 | $204,490 | $276,000 | $368,119 | $426,804 | $19,500 | $7,360 | $4,048 | $153,383 | $45,000 | $2,738,417 | $547,683 | $3,286,100 |
| 1E | $7,740 | $827,352 | $137,878 | $367,500 | $248,206 | $287,775 | $22,500 | $9,800 | $5,390 | $103,419 | $45,000 | $2,062,560 | $412,512 | $2,475,072 |
| 1G | $7,230 | $778,392 | $129,719 | $228,000 | $233,518 | $270,745 | $15,000 | $6,080 | $3,344 | $97,299 | $45,000 | $1,814,327 | $362,865 | $2,177,192 |
| 1H | $5,050 | $994,239 | $165,690 | $307,500 | $298,272 | $345,822 | $19,500 | $8,200 | $4,510 | $124,280 | $45,000 | $2,318,063 | $463,613 | $2,781,676 |
| 1I | $5,350 | $877,092 | $146,167 | $235,500 | $263,128 | $305,076 | $19,500 | $6,280 | $3,454 | $109,637 | $45,000 | $2,016,184 | $403,237 | $2,419,421 |
| 1K | $5,560 | $2,616,007 | $435,958 | $409,500 | $784,802 | $909,916 | $24,000 | $10,920 | $6,006 | $327,001 | $45,000 | $5,574,670 | $1,114,934 | $6,689,604 |
| 1L | $8,830 | $1,253,137 | $208,835 | $271,500 | $375,941 | $435,874 | $27,000 | $7,240 | $3,982 | $156,642 | $45,000 | $2,793,981 | $558,796 | $3,352,777 |
| 1L1 | $6,800 | $1,360,228 | $226,682 | $369,000 | $408,068 | $473,123 | $45,000 | $9,840 | $5,412 | $170,029 | $45,000 | $3,119,182 | $623,836 | $3,743,018 |
| 1N | $4,100 | $1,308,316 | $218,031 | $207,000 | $392,495 | $455,066 | $12,000 | $5,520 | $3,036 | $163,539 | $45,000 | $2,814,103 | $562,821 | $3,376,924 |
| 1O | $5,830 | $1,886,681 | $314,415 | $433,500 | $566,004 | $656,237 | $18,000 | $11,560 | $6,358 | $235,835 | $45,000 | $4,179,420 | $835,884 | $5,015,304 |
| 1P | $2,720 | $605,210 | $100,858 | $33,000 | $181,563 | $210,508 | $7,500 | $880 | $484 | $75,651 | $45,000 | $1,263,374 | $252,675 | $1,516,049 |
| 1S | $5,690 | $1,583,656 | $263,916 | $405,000 | $475,097 | $550,837 | $21,000 | $10,800 | $5,940 | $197,957 | $45,000 | $3,564,893 | $712,979 | $4,277,872 |
| 1T | $5,680 | $1,421,582 | $236,907 | $390,000 | $426,474 | $494,463 | $21,000 | $10,400 | $5,720 | $177,698 | $45,000 | $3,234,924 | $646,985 | $3,881,909 |
| 1U | $5,410 | $1,343,312 | $223,863 | $429,000 | $402,993 | $467,239 | $24,000 | $11,440 | $6,292 | $167,914 | $45,000 | $3,126,463 | $625,293 | $3,751,756 |
| 1V | $6,130 | $1,378,420 | $229,714 | $487,500 | $413,526 | $479,450 | $21,000 | $13,000 | $7,150 | $172,303 | $45,000 | $3,253,193 | $650,639 | $3,903,832 |
| 1V1 | $6,040 | $1,586,050 | $264,315 | $471,000 | $475,815 | $551,670 | $24,000 | $12,560 | $6,908 | $198,256 | $45,000 | $3,641,614 | $728,323 | $4,369,937 |
| 1W | $3,290 | $1,296,368 | $216,040 | $54,000 | $388,910 | $450,911 | $3,000 | $1,440 | $792 | $162,046 | $45,000 | $2,621,797 | $524,359 | $3,146,156 |

Appendix 6
SPECIAL ELECTTRICAL WORK COSTS

| BLOCK_ID1 | XFMR_COST | PRIM_BACKBONE_CABLING_COST | SEC_BACKBONE_CABLING_COST | CUST_CABLE_COST | CUT_OVER_COST | BOUND_CIRC_FEEDER_COST | SUBSTATION_COST | SPCL_E_Subtotal | SPCL_E_OAP | SPECIAL_ELEC_SERV_TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| 1A | $472,500 | $132,900 | $236,267 | $317,588 | $130,500 | $75,000 | $0 | $1,364,755 | $272,951 | $1,637,706 |
| 1A1 | $385,000 | $154,070 | $273,902 | $357,321 | $130,000 | $75,000 | $0 | $1,375,293 | $275,059 | $1,650,352 |
| 1A2 | $472,500 | $142,439 | $253,225 | $335,096 | $129,500 | $75,000 | $0 | $1,407,760 | $281,552 | $1,689,312 |
| 1B | $577,500 | $150,146 | $266,926 | $329,764 | $90,500 | $75,000 | $0 | $1,489,836 | $297,967 | $1,787,803 |
| 1C | $437,500 | $90,828 | $161,471 | $219,248 | $93,500 | $75,000 | $0 | $1,077,547 | $215,509 | $1,293,056 |
| 1C1 | $472,500 | $158,289 | $281,402 | $362,230 | $124,000 | $75,000 | $0 | $1,473,421 | $294,684 | $1,768,105 |
| 1D | $367,500 | $132,523 | $235,596 | $297,241 | $92,000 | $75,000 | $0 | $1,199,860 | $239,972 | $1,439,832 |
| 1E | $402,500 | $89,354 | $158,852 | $231,255 | $122,500 | $75,000 | $0 | $1,079,461 | $215,892 | $1,295,353 |
| 1G | $472,500 | $84,066 | $149,451 | $197,552 | $76,000 | $75,000 | $0 | $1,054,569 | $210,914 | $1,265,483 |
| 1H | $455,000 | $107,378 | $190,894 | $255,100 | $102,500 | $75,000 | $0 | $1,185,872 | $237,174 | $1,423,046 |
| 1I | $350,000 | $94,726 | $168,402 | $218,962 | $78,500 | $75,000 | $0 | $985,590 | $197,118 | $1,182,708 |
| 1K | $542,500 | $282,529 | $502,273 | $603,280 | $136,500 | $75,000 | $0 | $2,142,082 | $428,416 | $2,570,498 |
| 1L | $612,500 | $135,339 | $240,602 | $301,795 | $90,500 | $75,000 | $0 | $1,455,736 | $291,147 | $1,746,883 |
| 1L1 | $560,000 | $146,905 | $261,164 | $340,217 | $123,000 | $75,000 | $0 | $1,506,286 | $301,257 | $1,807,543 |
| 1N | $490,000 | $141,298 | $251,197 | $302,086 | $69,000 | $75,000 | $0 | $1,328,581 | $265,716 | $1,594,297 |
| 1O | $542,500 | $203,762 | $362,243 | $458,578 | $144,500 | $75,000 | $0 | $1,786,583 | $357,317 | $2,143,900 |
| 1P | $175,000 | $65,363 | $116,200 | $129,073 | $11,000 | $75,000 | $0 | $571,636 | $114,327 | $685,963 |
| 1S | $490,000 | $171,035 | $304,062 | $391,916 | $135,000 | $75,000 | $0 | $1,567,013 | $313,403 | $1,880,416 |
| 1T | $402,500 | $153,531 | $272,944 | $356,303 | $130,000 | $75,000 | $0 | $1,390,278 | $278,056 | $1,668,334 |
| 1U | $350,000 | $145,078 | $257,916 | $346,966 | $143,000 | $75,000 | $0 | $1,317,960 | $263,592 | $1,581,552 |
| 1V | $437,500 | $148,869 | $264,657 | $364,073 | $162,500 | $75,000 | $0 | $1,452,599 | $290,520 | $1,743,119 |
| 1V1 | $455,000 | $171,293 | $304,522 | $403,624 | $157,000 | $75,000 | $0 | $1,566,439 | $313,288 | $1,879,727 |
| 1W | $280,000 | $140,008 | $248,903 | $273,639 | $18,000 | $75,000 | $100,000 | $1,135,550 | $227,110 | $1,362,660 |

Appendix 6
BASIC ELECTRICAL WORK COSTS

| BLOCK_ID1 | PANEL_COST | OH_CABLE_RMV_COST | OH_CUST_CABLE_RMV_COST | STREET_POWER_POLE_RMVL_COST | ALLEY_POLE_COST | BACKLOT_POLE_COST | BASIC_E_Subtotal | BASIC_E_OAP | BASIC_ELEC_SERV_TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| 1A | $522,000 | $37,452 | $68,643 | $59,500 | $38,000 | $176,000 | $901,595 | $180,319 | $1,081,914 |
| 1A1 | $520,000 | $43,417 | $68,380 | $68,250 | $100,000 | $40,000 | $840,047 | $168,009 | $1,008,056 |
| 1A2 | $518,000 | $40,140 | $68,117 | $43,750 | $88,000 | $68,000 | $826,007 | $165,201 | $991,208 |
| 1B | $362,000 | $42,312 | $47,603 | $61,250 | $86,000 | $68,000 | $667,165 | $133,433 | $800,598 |
| 1C | $374,000 | $25,596 | $49,181 | $42,000 | $72,000 | $40,000 | $602,777 | $120,555 | $723,332 |
| 1C1 | $496,000 | $44,606 | $65,224 | $92,750 | $10,000 | $204,000 | $912,580 | $182,516 | $1,095,096 |
| 1D | $368,000 | $37,345 | $48,392 | $91,000 | $46,000 | $96,000 | $686,737 | $137,347 | $824,084 |
| 1E | $490,000 | $25,180 | $64,435 | $70,000 | $30,000 | $64,000 | $743,615 | $148,723 | $892,338 |
| 1G | $304,000 | $23,690 | $39,976 | $49,000 | $90,000 | $64,000 | $570,666 | $114,133 | $684,799 |
| 1H | $410,000 | $30,259 | $53,915 | $92,750 | $0 | $168,000 | $754,924 | $150,985 | $905,909 |
| 1I | $314,000 | $26,694 | $41,291 | $71,750 | $2,000 | $104,000 | $559,735 | $111,947 | $671,682 |
| 1K | $546,000 | $79,618 | $71,799 | $127,750 | $0 | $280,000 | $1,105,167 | $221,033 | $1,326,200 |
| 1L | $362,000 | $38,139 | $47,603 | $108,500 | $62,000 | $112,000 | $730,242 | $146,048 | $876,290 |
| 1L1 | $492,000 | $41,398 | $64,698 | $134,750 | $56,000 | $44,000 | $832,846 | $166,569 | $999,415 |
| 1N | $276,000 | $39,818 | $36,294 | $115,500 | $0 | $80,000 | $547,612 | $109,522 | $657,134 |
| 1O | $578,000 | $57,421 | $76,007 | $162,750 | $0 | $80,000 | $954,178 | $190,836 | $1,145,014 |
| 1P | $44,000 | $18,419 | $5,786 | $14,000 | $0 | $100,000 | $182,205 | $36,441 | $218,646 |
| 1S | $540,000 | $48,198 | $71,010 | $127,750 | $0 | $44,000 | $830,958 | $166,192 | $997,150 |
| 1T | $520,000 | $43,266 | $68,380 | $106,750 | $8,000 | $24,000 | $770,396 | $154,079 | $924,475 |
| 1U | $572,000 | $40,883 | $75,218 | $73,500 | $0 | $96,000 | $857,601 | $171,520 | $1,029,121 |
| 1V | $650,000 | $41,952 | $85,475 | $87,500 | $0 | $80,000 | $944,927 | $188,985 | $1,133,912 |
| 1V1 | $628,000 | $48,271 | $82,582 | $131,250 | $0 | $40,000 | $930,103 | $186,021 | $1,116,124 |
| 1W | $72,000 | $39,455 | $9,468 | $36,750 | $0 | $180,000 | $337,673 | $67,535 | $405,208 |

# APPENDIX 6

# DISTRICT 2

Appendix 6
Updated 2009 Master Plan with Applied Current Algorithms

| BLOCK_ID1 | CIP_ID | Council District | INTERSECTIONS | Backlot_Poles | ALLEY_Poles | OH_Poles | XFMR_Count | Meters | P_Length | ServiceDrop | SUB_Count |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2A | UU259 | 3 | 21 | 87 | 0 | 128 | 38 | 859 | 13,459.61 | 169 | 0 |
| 2AA | UU866 | 2 | 13 | 9 | 0 | 103 | 36 | 376 | 16,025.56 | 296 | 0 |
| 2AA1 | UU864 | 2 | 29 | 45 | 48 | 152 | 32 | 1132 | 15,959.50 | 189 | 0 |
| 2AA2 | UU865 | 2 | 53 | 11 | 78 | 183 | 50 | 1723 | 22,471.10 | 521 | 0 |
| 2B | UU490 | 3 | 40 | 60 | 1 | 184 | 46 | 604 | 21,093.50 | 383 | 0 |
| 2B1 | UU536 | 3 | 25 | 29 | 0 | 110 | 28 | 601 | 10,806.46 | 251 | 0 |
| 2B2 | UU837 | 3 | 34 | 73 | 4 | 150 | 44 | 551 | 17,957.03 | 318 | 0 |
| 2B3 | UU260 | 3 | 28 | 71 | 0 | 159 | 35 | 984 | 17,163.12 | 235 | 1 |
| 2BB | UU854 | 2 | 21 | 95 | 4 | 141 | 26 | 474 | 17,417.72 | 427 | 0 |
| 2BB1 | UU853 | 2 | 76 | 136 | 160 | 412 | 136 | 3849 | 52,699.72 | 1,107 | 0 |
| 2C | UU487 | 3 | 49 | 33 | 13 | 211 | 59 | 1199 | 24,210.50 | 430 | 0 |
| 2D | UU489 | 3 | 63 | 39 | 44 | 271 | 61 | 820 | 28,131.90 | 558 | 0 |
| 2D2 | UU488 | 3 | 33 | 40 | 1 | 165 | 33 | 714 | 17,323.22 | 337 | 0 |
| 2D3 | UU407 | 3 | 35 | 15 | 19 | 150 | 40 | 464 | 16,899.90 | 288 | 0 |
| 2F | UU852 | 3 | 15 | 45 | 0 | 108 | 26 | 336 | 11,085.18 | 143 | 1 |
| 2F1 | UU851 | 2 | 18 | 66 | 2 | 118 | 45 | 199 | 14,929.81 | 75 | 1 |
| 2G | UU850 | 2 | 26 | 82 | 18 | 211 | 61 | 554 | 23,295.10 | 309 | 0 |
| 2G1 | UU849 | 2 | 32 | 46 | 40 | 164 | 65 | 1902 | 17,944.75 | 269 | 0 |
| 2G5 | UU335 | 2 | 43 | 47 | 52 | 228 | 67 | 1215 | 27,664.34 | 603 | 0 |
| 2H | UU398 | 2 | 26 | 32 | 71 | 141 | 37 | 431 | 17,602.69 | 376 | 0 |
| 2H1 | UU399 | 2 | 16 | 29 | 0 | 127 | 32 | 373 | 16,381.94 | 331 | 0 |
| 2I | UU848 | 2 | 31 | 39 | 5 | 151 | 34 | 547 | 16,357.34 | 342 | 0 |
| 2I1 | UU333 | 2 | 27 | 23 | 0 | 116 | 31 | 538 | 13,407.12 | 267 | 1 |
| 2K | UU157 | 2 | 25 | 3 | 53 | 104 | 29 | 309 | 11,662.74 | 269 | 0 |
| 2L | UU846 | 2 | 22 | 26 | 6 | 128 | 28 | 345 | 14,007.95 | 337 | 0 |
| 2L1 | UU847 | 2 | 24 | 67 | 18 | 131 | 42 | 432 | 17,925.24 | 360 | 0 |
| 2M | UU844 | 2 | 24 | 25 | 51 | 136 | 29 | 523 | 13,503.11 | 350 | 1 |
| 2M1 | UU408 | 2 | 14 | 73 | 28 | 154 | 40 | 417 | 20,144.13 | 394 | 0 |
| 2M3 | UU334 | 2 | 19 | 66 | 5 | 136 | 38 | 577 | 17,098.78 | 303 | 0 |
| 2M4 | UU332 | 2 | 43 | 45 | 53 | 173 | 35 | 491 | 18,451.77 | 408 | 0 |
| 2N | UU838 | 2 | 24 | 16 | 32 | 134 | 34 | 246 | 15,849.68 | 246 | 1 |
| 2N1 | UU845 | 2 | 21 | 14 | 0 | 107 | 29 | 263 | 12,309.15 | 189 | 0 |
| 2O | UU239 | 2 | 62 | 27 | 103 | 258 | 62 | 1484 | 28,614.29 | 728 | 0 |
| 2P | UU842 | 2 | 18 | 3 | 71 | 100 | 29 | 610 | 11,020.02 | 334 | 0 |
| 2P1 | UU843 | 2 | 33 | 7 | 94 | 147 | 40 | 457 | 17,427.27 | 387 | 0 |
| 2Q | UU155 | 2 | 25 | 0 | 52 | 110 | 45 | 2144 | 10,056.17 | 301 | 0 |
| 2Q2 | UU240 | 2 | 31 | 6 | 111 | 146 | 36 | 681 | 17,532.02 | 529 | 0 |
| 2Q3 | UU841 | 2 | 28 | 26 | 113 | 161 | 39 | 711 | 18,026.82 | 481 | 0 |
| 2R | UU839 | 2 | 20 | 3 | 73 | 119 | 30 | 1408 | 10,563.63 | 259 | 0 |
| 2R1 | UU840 | 2 | 0 | 3 | 88 | 96 | 51 | 2079 | 8,584.75 | 341 | 0 |
| 2R2 | UU156 | 2 | 19 | 5 | 100 | 118 | 40 | 1206 | 13,876.84 | 413 | 0 |
| 2S3 | UU981 | 2 | 79 | 0 | 55 | 86 | 27 | 956 | 7,218.20 | 325 | 0 |
| 2S4 | UU980 | 2 | 104 | 0 | 78 | 97 | 28 | 824 | 7,740.74 | 474 | 0 |
| 2U | UU296 | 2 | 31 | 25 | 82 | 134 | 43 | 1653 | 13,557.01 | 321 | 0 |
| 2U1 | UU299 | 2 | 27 | 13 | 88 | 125 | 43 | 1986 | 13,097.40 | 269 | 0 |
| 2V | UU167 | 2 | 13 | 6 | 81 | 93 | 38 | 1405 | 9,764.88 | 316 | 0 |
| 2V1 | UU315 | 2 | 34 | 26 | 39 | 99 | 29 | 736 | 9,628.25 | 199 | 0 |
| 2V2 | UU316 | 2 | 14 | 5 | 81 | 93 | 40 | 1354 | 9,363.72 | 216 | 0 |
| 2W | UU233 | 1 | 13 | 47 | 0 | 137 | 32 | 274 | 24,370.36 | 274 | 0 |
| 2W1 | UU867 | 2 | 27 | 26 | 0 | 156 | 43 | 379 | 19,529.44 | 355 | 0 |
| 2X | UU297 | 2 | 23 | 47 | 73 | 144 | 46 | 1149 | 16,673.52 | 401 | 0 |
| 2X1 | UU298 | 2 | 27 | 10 | 95 | 119 | 37 | 966 | 15,396.64 | 428 | 0 |
| 2X2 | UU669 | 2 | 38 | 13 | 95 | 127 | 44 | 1348 | 15,821.35 | 436 | 0 |
| 2X3 | UU317 | 2 | 30 | 11 | 128 | 161 | 63 | 2746 | 18,530.24 | 322 | 0 |
| 2Y | UU855 | 2 | 21 | 36 | 58 | 149 | 41 | 1341 | 17,659.18 | 386 | 0 |
| 2Y1 | UU158 | 2 | 30 | 20 | 102 | 164 | 52 | 1720 | 17,627.23 | 288 | 1 |

Appendix 6
Updated 2009 Master Plan with Applied Current Algorithms

| BLOCK_ID1 | TOTAL_CONST_SUM | CHANGE_ORDERS_COST | PRGM_MGMT_COST | ENGNR_SRVCS_COST | BLOCK_COST |
|---|---|---|---|---|---|
| 2A | $7,020,742 | $702,074 | $561,659 | $842,489 | $9,126,964 |
| 2AA | $8,269,447 | $826,945 | $661,556 | $992,334 | $10,750,282 |
| 2AA1 | $7,827,198 | $782,720 | $626,176 | $939,264 | $10,175,358 |
| 2AA2 | $12,285,519 | $1,228,552 | $982,842 | $1,474,262 | $15,971,175 |
| 2B | $11,047,229 | $1,104,723 | $883,778 | $1,325,667 | $14,361,397 |
| 2B1 | $6,165,331 | $616,533 | $493,226 | $739,840 | $8,014,930 |
| 2B2 | $9,530,366 | $953,037 | $762,429 | $1,143,644 | $12,389,476 |
| 2B3 | $8,740,854 | $874,085 | $699,268 | $1,048,902 | $11,363,109 |
| 2BB | $9,583,485 | $958,348 | $766,679 | $1,150,018 | $12,458,530 |
| 2BB1 | $28,542,128 | $2,854,213 | $2,283,370 | $3,425,055 | $37,104,766 |
| 2C | $12,653,425 | $1,265,342 | $1,012,274 | $1,518,411 | $16,449,452 |
| 2D | $14,909,828 | $1,490,983 | $1,192,786 | $1,789,179 | $19,382,776 |
| 2D2 | $9,129,062 | $912,906 | $730,325 | $1,095,487 | $11,867,780 |
| 2D3 | $8,769,237 | $876,924 | $701,539 | $1,052,308 | $11,400,008 |
| 2F | $5,762,736 | $576,274 | $461,019 | $691,528 | $7,491,557 |
| 2F1 | $7,182,618 | $718,262 | $574,609 | $861,914 | $9,337,403 |
| 2G | $11,802,552 | $1,180,255 | $944,204 | $1,416,306 | $15,343,317 |
| 2G1 | $9,677,782 | $967,778 | $774,223 | $1,161,334 | $12,581,117 |
| 2G5 | $15,025,966 | $1,502,597 | $1,202,077 | $1,803,116 | $19,533,756 |
| 2H | $9,455,818 | $945,582 | $756,465 | $1,134,698 | $12,292,563 |
| 2H1 | $8,609,241 | $860,924 | $688,739 | $1,033,109 | $11,192,013 |
| 2I | $8,811,286 | $881,129 | $704,903 | $1,057,354 | $11,454,672 |
| 2I1 | $7,323,374 | $732,337 | $585,870 | $878,805 | $9,520,386 |
| 2K | $6,507,189 | $650,719 | $520,575 | $780,863 | $8,459,346 |
| 2L | $7,754,003 | $775,400 | $620,320 | $930,480 | $10,080,203 |
| 2L1 | $9,637,014 | $963,701 | $770,961 | $1,156,442 | $12,528,118 |
| 2M | $7,827,433 | $782,743 | $626,195 | $939,292 | $10,175,663 |
| 2M1 | $10,588,725 | $1,058,872 | $847,098 | $1,270,647 | $13,765,342 |
| 2M3 | $8,954,230 | $895,423 | $716,338 | $1,074,508 | $11,640,499 |
| 2M4 | $10,007,788 | $1,000,779 | $800,623 | $1,200,935 | $13,010,125 |
| 2N | $8,124,442 | $812,444 | $649,955 | $974,933 | $10,561,774 |
| 2N1 | $6,300,543 | $630,054 | $504,043 | $756,065 | $8,190,705 |
| 2O | $15,994,008 | $1,599,401 | $1,279,521 | $1,919,281 | $20,792,211 |
| 2P | $6,633,016 | $663,302 | $530,641 | $795,962 | $8,622,921 |
| 2P1 | $9,484,301 | $948,430 | $758,744 | $1,138,116 | $12,329,591 |
| 2Q | $6,496,797 | $649,680 | $519,744 | $779,616 | $8,445,837 |
| 2Q2 | $10,215,883 | $1,021,588 | $817,271 | $1,225,906 | $13,280,648 |
| 2Q3 | $10,265,059 | $1,026,506 | $821,205 | $1,231,807 | $13,344,577 |
| 2R | $6,139,680 | $613,968 | $491,174 | $736,762 | $7,981,584 |
| 2R1 | $6,284,016 | $628,402 | $502,721 | $754,082 | $8,169,221 |
| 2R2 | $8,334,370 | $833,437 | $666,750 | $1,000,124 | $10,834,681 |
| 2S3 | $5,315,264 | $531,526 | $425,221 | $637,832 | $6,909,843 |
| 2S4 | $6,406,980 | $640,698 | $512,558 | $768,838 | $8,329,074 |
| 2U | $7,891,715 | $789,172 | $631,337 | $947,006 | $10,259,230 |
| 2U1 | $7,396,305 | $739,630 | $591,704 | $887,557 | $9,615,196 |
| 2V | $6,291,522 | $629,152 | $503,322 | $754,983 | $8,178,979 |
| 2V1 | $5,496,619 | $549,662 | $439,730 | $659,594 | $7,145,605 |
| 2V2 | $5,645,454 | $564,545 | $451,636 | $677,454 | $7,339,089 |
| 2W | $11,086,225 | $1,108,622 | $886,898 | $1,330,347 | $14,412,092 |
| 2W1 | $10,119,376 | $1,011,938 | $809,550 | $1,214,325 | $13,155,189 |
| 2X | $9,515,618 | $951,562 | $761,249 | $1,141,874 | $12,370,303 |
| 2X1 | $8,898,289 | $889,829 | $711,863 | $1,067,795 | $11,567,776 |
| 2X2 | $9,283,538 | $928,354 | $742,683 | $1,114,025 | $12,068,600 |
| 2X3 | $10,059,082 | $1,005,908 | $804,727 | $1,207,090 | $13,076,807 |
| 2Y | $9,639,687 | $963,969 | $771,175 | $1,156,762 | $12,531,593 |
| 2Y1 | $9,463,416 | $946,342 | $757,073 | $1,135,610 | $12,302,441 |

Appendix 6
CIVIL WORK COSTS

| BLOCK_ID1 | Pub_Notice_Cost | Joint_Trench_Cost | Non_Joint_Trench_Cost | Cust_Trench_Cost | Road_Resurf_Cost | Streetlights_Cost | Curb_Ramp_Cost | Permits_Inspections_Cost | Tree_Cost | SWPPP_Cost | Traff_Control_Cost | Civil_Subtotal_Cost | CIVIL_OAP | CIVIL_SUM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2A | $11,090 | $1,547,856 | $257,950 | $253,500 | $464,357 | $538,385 | $31,500 | $6,760 | $3,718 | $193,482 | $45,000 | $3,353,598 | $670,720 | $4,024,318 |
| 2AA | $6,260 | $1,842,939 | $307,126 | $444,000 | $552,882 | $641,022 | $19,500 | $11,840 | $6,512 | $230,367 | $45,000 | $4,107,448 | $821,490 | $4,928,938 |
| 2AA1 | $13,820 | $1,835,343 | $305,860 | $283,500 | $550,603 | $638,380 | $43,500 | $7,560 | $4,158 | $229,418 | $45,000 | $3,957,142 | $791,428 | $4,748,570 |
| 2AA2 | $19,730 | $2,584,177 | $430,653 | $781,500 | $775,253 | $898,844 | $79,500 | $20,840 | $11,462 | $323,022 | $45,000 | $5,969,981 | $1,193,996 | $7,163,977 |
| 2B | $8,540 | $2,425,752 | $404,252 | $574,500 | $727,726 | $843,740 | $60,000 | $15,320 | $8,426 | $303,219 | $45,000 | $5,416,475 | $1,083,295 | $6,499,770 |
| 2B1 | $8,510 | $1,242,743 | $207,103 | $376,500 | $372,823 | $432,258 | $37,500 | $10,040 | $5,522 | $155,343 | $45,000 | $2,893,342 | $578,668 | $3,472,010 |
| 2B2 | $8,010 | $2,065,059 | $344,142 | $477,000 | $619,518 | $718,281 | $51,000 | $12,720 | $6,996 | $258,132 | $45,000 | $4,605,858 | $921,172 | $5,527,030 |
| 2B3 | $12,340 | $1,973,759 | $328,927 | $352,500 | $592,128 | $686,525 | $42,000 | $9,400 | $5,170 | $246,720 | $45,000 | $4,294,469 | $858,894 | $5,153,363 |
| 2BB | $7,240 | $2,003,038 | $333,806 | $640,500 | $600,911 | $696,709 | $31,500 | $17,080 | $9,394 | $250,380 | $45,000 | $4,635,558 | $927,112 | $5,562,670 |
| 2BB1 | $40,990 | $6,060,468 | $1,009,977 | $1,660,500 | $1,818,140 | $2,107,989 | $114,000 | $44,280 | $24,354 | $757,558 | $45,000 | $13,683,256 | $2,736,651 | $16,419,907 |
| 2C | $14,490 | $2,784,208 | $463,988 | $645,000 | $835,262 | $968,420 | $73,500 | $17,200 | $9,460 | $348,026 | $45,000 | $6,204,554 | $1,240,911 | $7,445,465 |
| 2D | $10,700 | $3,235,168 | $539,141 | $837,000 | $970,550 | $1,125,276 | $94,500 | $22,320 | $12,276 | $404,396 | $45,000 | $7,296,327 | $1,459,265 | $8,755,592 |
| 2D2 | $9,640 | $1,992,171 | $331,995 | $505,500 | $597,651 | $692,929 | $49,500 | $13,480 | $7,414 | $249,021 | $45,000 | $4,494,301 | $898,860 | $5,393,161 |
| 2D3 | $7,140 | $1,943,488 | $323,882 | $432,000 | $583,046 | $675,996 | $52,500 | $11,520 | $6,336 | $242,936 | $45,000 | $4,323,844 | $864,769 | $5,188,613 |
| 2F | $5,860 | $1,274,796 | $212,445 | $214,500 | $382,439 | $443,407 | $22,500 | $5,720 | $3,146 | $159,349 | $45,000 | $2,769,162 | $553,832 | $3,322,994 |
| 2F1 | $4,490 | $1,716,928 | $286,126 | $112,500 | $515,078 | $597,192 | $27,000 | $3,000 | $1,650 | $214,616 | $45,000 | $3,523,580 | $704,716 | $4,228,296 |
| 2G | $8,040 | $2,678,936 | $446,445 | $463,500 | $803,681 | $931,804 | $39,000 | $12,360 | $6,798 | $334,867 | $45,000 | $5,770,431 | $1,154,086 | $6,924,517 |
| 2G1 | $21,520 | $2,063,646 | $343,907 | $403,500 | $619,094 | $717,790 | $48,000 | $10,760 | $5,918 | $257,956 | $45,000 | $4,537,091 | $907,418 | $5,444,509 |
| 2G5 | $14,650 | $3,181,399 | $530,180 | $904,500 | $954,420 | $1,106,574 | $64,500 | $24,120 | $13,266 | $397,675 | $45,000 | $7,236,284 | $1,447,257 | $8,683,541 |
| 2H | $6,810 | $2,024,309 | $337,351 | $564,000 | $607,293 | $704,107 | $39,000 | $15,040 | $8,272 | $253,039 | $45,000 | $4,604,221 | $920,844 | $5,525,065 |
| 2H1 | $6,230 | $1,883,923 | $313,956 | $496,500 | $565,177 | $655,278 | $24,000 | $13,240 | $7,282 | $235,490 | $45,000 | $4,246,076 | $849,215 | $5,095,291 |
| 2I | $7,970 | $1,881,094 | $313,484 | $513,000 | $564,328 | $654,294 | $46,500 | $13,680 | $7,524 | $235,137 | $45,000 | $4,282,011 | $856,402 | $5,138,413 |
| 2I1 | $7,880 | $1,541,819 | $256,944 | $400,500 | $462,546 | $536,285 | $40,500 | $10,680 | $5,874 | $192,727 | $45,000 | $3,500,755 | $700,151 | $4,200,906 |
| 2K | $5,590 | $1,341,215 | $223,514 | $403,500 | $402,365 | $466,510 | $37,500 | $10,760 | $5,918 | $167,652 | $45,000 | $3,109,524 | $621,905 | $3,731,429 |
| 2L | $5,950 | $1,610,914 | $268,459 | $505,500 | $483,274 | $560,318 | $33,000 | $13,480 | $7,414 | $201,364 | $45,000 | $3,734,673 | $746,935 | $4,481,608 |
| 2L1 | $6,820 | $2,061,402 | $343,533 | $540,000 | $618,421 | $717,010 | $36,000 | $14,400 | $7,920 | $257,675 | $45,000 | $4,648,181 | $929,636 | $5,577,817 |
| 2M | $7,730 | $1,552,857 | $258,784 | $525,000 | $465,857 | $540,124 | $36,000 | $14,000 | $7,700 | $194,107 | $45,000 | $3,647,159 | $729,432 | $4,376,591 |
| 2M1 | $6,670 | $2,316,574 | $386,057 | $591,000 | $694,972 | $805,765 | $21,000 | $15,760 | $8,668 | $289,572 | $45,000 | $5,181,038 | $1,036,208 | $6,217,246 |
| 2M3 | $8,270 | $1,966,359 | $327,694 | $454,500 | $589,908 | $683,951 | $28,500 | $12,120 | $6,666 | $245,795 | $45,000 | $4,368,763 | $873,753 | $5,242,516 |
| 2M4 | $7,410 | $2,121,953 | $353,624 | $612,000 | $636,586 | $738,071 | $64,500 | $16,320 | $8,976 | $265,244 | $45,000 | $4,869,684 | $973,937 | $5,843,621 |
| 2N | $4,960 | $1,822,713 | $303,755 | $369,000 | $546,814 | $633,987 | $36,000 | $9,840 | $5,412 | $227,839 | $45,000 | $4,005,320 | $801,064 | $4,806,384 |
| 2N1 | $5,130 | $1,415,553 | $235,902 | $283,500 | $424,666 | $492,366 | $31,500 | $7,560 | $4,158 | $176,944 | $45,000 | $3,122,279 | $624,456 | $3,746,735 |
| 2O | $17,340 | $3,290,644 | $548,386 | $1,092,000 | $987,193 | $1,144,572 | $93,000 | $29,120 | $16,016 | $411,330 | $45,000 | $7,674,601 | $1,534,920 | $9,209,521 |
| 2P | $8,600 | $1,267,302 | $211,196 | $501,000 | $380,191 | $440,801 | $27,000 | $13,360 | $7,348 | $158,413 | $45,000 | $3,060,211 | $612,042 | $3,672,253 |
| 2P1 | $7,070 | $2,004,136 | $333,989 | $580,500 | $601,241 | $697,091 | $49,500 | $15,480 | $8,514 | $250,517 | $45,000 | $4,593,038 | $918,608 | $5,511,646 |
| 2Q | $23,940 | $1,156,459 | $192,724 | $451,500 | $346,938 | $402,247 | $37,500 | $12,040 | $6,622 | $144,557 | $45,000 | $2,819,527 | $563,905 | $3,383,432 |
| 2Q2 | $9,310 | $2,016,182 | $335,997 | $793,500 | $604,855 | $701,281 | $46,500 | $21,160 | $11,638 | $252,023 | $45,000 | $4,837,446 | $967,489 | $5,804,935 |
| 2Q3 | $9,610 | $2,073,084 | $345,480 | $721,500 | $621,925 | $721,073 | $42,000 | $19,240 | $10,582 | $259,136 | $45,000 | $4,868,630 | $973,726 | $5,842,356 |
| 2R | $16,580 | $1,214,818 | $202,449 | $388,500 | $364,445 | $422,545 | $30,000 | $10,360 | $5,698 | $151,852 | $45,000 | $2,852,247 | $570,449 | $3,422,696 |
| 2R1 | $23,290 | $987,246 | $164,525 | $511,500 | $296,174 | $343,390 | $0 | $13,640 | $7,502 | $123,406 | $45,000 | $2,515,673 | $503,135 | $3,018,808 |
| 2R2 | $14,560 | $1,595,836 | $265,946 | $619,500 | $478,751 | $555,074 | $28,500 | $16,520 | $9,086 | $199,480 | $45,000 | $3,828,253 | $765,651 | $4,593,904 |
| 2S3 | $12,060 | $830,093 | $138,335 | $487,500 | $249,028 | $288,728 | $118,500 | $13,000 | $7,150 | $103,762 | $45,000 | $2,293,156 | $458,631 | $2,751,787 |
| 2S4 | $10,740 | $890,185 | $148,349 | $711,000 | $267,056 | $309,630 | $156,000 | $18,960 | $10,428 | $111,273 | $45,000 | $2,678,621 | $535,724 | $3,214,345 |
| 2U | $19,030 | $1,559,057 | $259,817 | $481,500 | $467,717 | $542,281 | $46,500 | $12,840 | $7,062 | $194,882 | $45,000 | $3,635,686 | $727,137 | $4,362,823 |
| 2U1 | $22,360 | $1,506,201 | $251,008 | $403,500 | $451,860 | $523,896 | $40,500 | $10,760 | $5,918 | $188,275 | $45,000 | $3,449,278 | $689,856 | $4,139,134 |
| 2V | $16,550 | $1,122,961 | $187,141 | $474,000 | $336,888 | $390,595 | $19,500 | $12,640 | $6,952 | $140,370 | $45,000 | $2,752,597 | $550,519 | $3,303,116 |
| 2V1 | $9,860 | $1,107,249 | $184,523 | $298,500 | $332,175 | $385,130 | $51,000 | $7,960 | $4,378 | $138,406 | $45,000 | $2,564,181 | $512,836 | $3,077,017 |
| 2V2 | $16,040 | $1,076,828 | $179,453 | $324,000 | $323,048 | $374,549 | $21,000 | $8,640 | $4,752 | $134,603 | $45,000 | $2,507,913 | $501,583 | $3,009,496 |
| 2W | $5,240 | $2,802,591 | $467,052 | $411,000 | $840,777 | $974,814 | $19,500 | $10,960 | $6,028 | $350,324 | $45,000 | $5,933,286 | $1,186,657 | $7,119,943 |
| 2W1 | $6,290 | $2,245,886 | $374,277 | $532,500 | $673,766 | $781,178 | $40,500 | $14,200 | $7,810 | $280,736 | $45,000 | $5,002,143 | $1,000,429 | $6,002,572 |
| 2X | $13,990 | $1,917,455 | $319,544 | $601,500 | $575,236 | $666,941 | $34,500 | $16,040 | $8,822 | $239,682 | $45,000 | $4,438,710 | $887,742 | $5,326,452 |
| 2X1 | $12,160 | $1,770,614 | $295,073 | $642,000 | $531,184 | $615,866 | $40,500 | $17,120 | $9,416 | $221,327 | $45,000 | $4,200,260 | $840,052 | $5,040,312 |
| 2X2 | $15,980 | $1,819,456 | $303,212 | $654,000 | $545,837 | $632,854 | $57,000 | $17,440 | $9,592 | $227,432 | $45,000 | $4,327,803 | $865,561 | $5,193,364 |
| 2X3 | $29,960 | $2,130,977 | $355,127 | $483,000 | $639,293 | $741,210 | $45,000 | $12,880 | $7,084 | $266,372 | $45,000 | $4,755,903 | $951,181 | $5,707,084 |
| 2Y | $15,910 | $2,030,806 | $338,434 | $579,000 | $609,242 | $706,367 | $31,500 | $15,440 | $8,492 | $253,851 | $45,000 | $4,634,042 | $926,808 | $5,560,850 |
| 2Y1 | $19,700 | $2,027,131 | $337,821 | $432,000 | $608,139 | $705,089 | $45,000 | $11,520 | $6,336 | $253,391 | $45,000 | $4,491,127 | $898,225 | $5,389,352 |

Appendix 6
SPECIAL ELECTTRICAL WORK COSTS

| BLOCK_ID1 | XFMR_COST | PRIM_BACKBONE_CABLING_COST | SEC_BACKBONE_CABLING_COST | CUST_CABLE_COST | CUT_OVER_COST | BOUND_CIRC_FEEDER_COST | SUBSTATION_COST | SPCL_E_Subtotal | SPCL_E_OAP | SPECIAL_ELEC_SERV_TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| 2A | $665,000 | $167,168 | $297,188 | $358,858 | $84,500 | $75,000 | $0 | $1,647,714 | $329,543 | $1,977,257 |
| 2AA | $630,000 | $199,037 | $353,844 | $451,440 | $148,000 | $75,000 | $0 | $1,857,321 | $371,464 | $2,228,785 |
| 2AA1 | $560,000 | $198,217 | $352,386 | $422,605 | $94,500 | $75,000 | $0 | $1,702,708 | $340,542 | $2,043,250 |
| 2AA2 | $875,000 | $279,091 | $496,162 | $660,027 | $260,500 | $75,000 | $0 | $2,645,780 | $529,156 | $3,174,936 |
| 2B | $805,000 | $261,981 | $465,744 | $592,518 | $191,500 | $75,000 | $0 | $2,391,743 | $478,349 | $2,870,092 |
| 2B1 | $490,000 | $134,216 | $238,607 | $317,525 | $125,500 | $75,000 | $0 | $1,380,848 | $276,170 | $1,657,018 |
| 2B2 | $770,000 | $223,026 | $396,491 | $502,362 | $159,000 | $75,000 | $0 | $2,125,879 | $425,176 | $2,551,055 |
| 2B3 | $612,500 | $213,166 | $378,962 | $462,572 | $117,500 | $75,000 | $100,000 | $1,959,700 | $391,940 | $2,351,640 |
| 2BB | $455,000 | $216,328 | $384,583 | $517,505 | $213,500 | $75,000 | $0 | $1,861,916 | $372,383 | $2,234,299 |
| 2BB1 | $2,380,000 | $654,531 | $1,163,610 | $1,518,620 | $553,500 | $75,000 | $0 | $6,345,261 | $1,269,052 | $7,614,313 |
| 2C | $1,032,500 | $300,694 | $534,568 | $677,628 | $215,000 | $75,000 | $0 | $2,835,390 | $567,078 | $3,402,468 |
| 2D | $1,067,500 | $349,398 | $621,152 | $802,264 | $279,000 | $75,000 | $0 | $3,194,314 | $638,863 | $3,833,177 |
| 2D2 | $577,500 | $215,154 | $382,497 | $492,338 | $168,500 | $75,000 | $0 | $1,910,989 | $382,198 | $2,293,187 |
| 2D3 | $700,000 | $209,897 | $373,150 | $469,912 | $144,000 | $75,000 | $0 | $1,971,959 | $394,392 | $2,366,351 |
| 2F | $455,000 | $137,678 | $244,761 | $296,523 | $71,500 | $75,000 | $100,000 | $1,380,462 | $276,092 | $1,656,554 |
| 2F1 | $787,500 | $185,428 | $329,650 | $369,378 | $37,500 | $75,000 | $100,000 | $1,884,456 | $376,891 | $2,261,347 |
| 2G | $1,067,500 | $289,325 | $514,356 | $625,298 | $154,500 | $75,000 | $0 | $2,725,979 | $545,196 | $3,271,175 |
| 2G1 | $1,137,500 | $222,874 | $396,220 | $489,579 | $134,500 | $75,000 | $0 | $2,455,673 | $491,135 | $2,946,808 |
| 2G5 | $1,172,500 | $343,591 | $610,829 | $802,770 | $301,500 | $75,000 | $0 | $3,306,190 | $661,238 | $3,967,428 |
| 2H | $647,500 | $218,625 | $388,667 | $508,839 | $188,000 | $75,000 | $0 | $2,026,631 | $405,326 | $2,431,957 |
| 2H1 | $560,000 | $203,464 | $361,713 | $468,725 | $165,500 | $75,000 | $0 | $1,834,402 | $366,880 | $2,201,282 |
| 2I | $595,000 | $203,158 | $361,170 | $470,953 | $171,000 | $75,000 | $0 | $1,876,281 | $375,256 | $2,251,537 |
| 2I1 | $542,500 | $166,516 | $296,029 | $382,616 | $133,500 | $75,000 | $100,000 | $1,696,161 | $339,232 | $2,035,393 |
| 2K | $507,500 | $144,851 | $257,513 | $342,203 | $134,500 | $75,000 | $0 | $1,461,567 | $292,313 | $1,753,880 |
| 2L | $490,000 | $173,979 | $309,296 | $414,562 | $168,500 | $75,000 | $0 | $1,631,337 | $326,267 | $1,957,604 |
| 2L1 | $735,000 | $222,631 | $395,789 | $512,326 | $180,000 | $75,000 | $0 | $2,120,746 | $424,149 | $2,544,895 |
| 2M | $507,500 | $167,709 | $298,149 | $406,033 | $175,000 | $75,000 | $100,000 | $1,729,391 | $345,878 | $2,075,269 |
| 2M1 | $700,000 | $250,190 | $444,782 | $573,051 | $197,000 | $75,000 | $0 | $2,240,023 | $448,005 | $2,688,028 |
| 2M3 | $665,000 | $212,367 | $377,541 | $478,402 | $151,500 | $75,000 | $0 | $1,959,810 | $391,962 | $2,351,772 |
| 2M4 | $612,500 | $229,171 | $407,415 | $536,918 | $204,000 | $75,000 | $0 | $2,065,004 | $413,001 | $2,478,005 |
| 2N | $595,000 | $196,853 | $349,961 | $434,563 | $123,000 | $75,000 | $100,000 | $1,874,377 | $374,875 | $2,249,252 |
| 2N1 | $507,500 | $152,880 | $271,786 | $336,968 | $94,500 | $75,000 | $0 | $1,438,634 | $287,727 | $1,726,361 |
| 2O | $1,085,000 | $355,390 | $631,804 | $856,931 | $364,000 | $75,000 | $0 | $3,368,125 | $673,625 | $4,041,750 |
| 2P | $507,500 | $136,869 | $243,322 | $343,700 | $167,000 | $75,000 | $0 | $1,473,391 | $294,678 | $1,768,069 |
| 2P1 | $700,000 | $216,447 | $384,794 | $507,529 | $193,500 | $75,000 | $0 | $2,077,270 | $415,454 | $2,492,724 |
| 2Q | $787,500 | $124,898 | $222,040 | $312,673 | $150,500 | $75,000 | $0 | $1,672,611 | $334,522 | $2,007,133 |
| 2Q2 | $630,000 | $217,748 | $387,107 | $546,196 | $264,500 | $75,000 | $0 | $2,120,551 | $424,110 | $2,544,661 |
| 2Q3 | $682,500 | $223,893 | $398,032 | $545,564 | $240,500 | $75,000 | $0 | $2,165,489 | $433,098 | $2,598,587 |
| 2R | $525,000 | $131,200 | $233,245 | $313,868 | $129,500 | $75,000 | $0 | $1,407,813 | $281,563 | $1,689,376 |
| 2R1 | $892,500 | $106,623 | $189,551 | $288,353 | $170,500 | $75,000 | $0 | $1,722,527 | $344,505 | $2,067,032 |
| 2R2 | $700,000 | $172,350 | $306,401 | $430,866 | $206,500 | $75,000 | $0 | $1,891,117 | $378,223 | $2,269,340 |
| 2S3 | $472,500 | $89,650 | $159,378 | $252,214 | $162,500 | $75,000 | $0 | $1,211,242 | $242,248 | $1,453,490 |
| 2S4 | $490,000 | $96,140 | $170,916 | $302,468 | $237,000 | $75,000 | $0 | $1,371,524 | $274,305 | $1,645,829 |
| 2U | $752,500 | $168,378 | $299,339 | $399,903 | $160,500 | $75,000 | $0 | $1,855,620 | $371,124 | $2,226,744 |
| 2U1 | $752,500 | $162,670 | $289,191 | $375,860 | $134,500 | $75,000 | $0 | $1,789,721 | $357,944 | $2,147,665 |
| 2V | $665,000 | $121,280 | $215,609 | $309,664 | $158,000 | $75,000 | $0 | $1,544,553 | $308,911 | $1,853,464 |
| 2V1 | $507,500 | $119,583 | $212,592 | $276,624 | $99,500 | $75,000 | $0 | $1,290,799 | $258,160 | $1,548,959 |
| 2V2 | $700,000 | $116,297 | $206,751 | $274,753 | $108,000 | $75,000 | $0 | $1,480,801 | $296,160 | $1,776,961 |
| 2W | $560,000 | $302,680 | $538,098 | $641,599 | $137,000 | $75,000 | $0 | $2,254,377 | $450,875 | $2,705,252 |
| 2W1 | $752,500 | $242,556 | $431,210 | $548,686 | $177,500 | $75,000 | $0 | $2,227,452 | $445,490 | $2,672,942 |
| 2X | $805,000 | $207,085 | $368,151 | $493,416 | $200,500 | $75,000 | $0 | $2,149,152 | $429,830 | $2,578,982 |
| 2X1 | $647,500 | $191,226 | $339,958 | $470,345 | $214,000 | $75,000 | $0 | $1,938,029 | $387,606 | $2,325,635 |
| 2X2 | $770,000 | $196,501 | $349,335 | $482,349 | $218,000 | $75,000 | $0 | $2,091,185 | $418,237 | $2,509,422 |
| 2X3 | $1,102,500 | $230,146 | $409,148 | $516,829 | $161,000 | $75,000 | $0 | $2,494,623 | $498,925 | $2,993,548 |
| 2Y | $717,500 | $219,327 | $389,915 | $512,714 | $193,000 | $75,000 | $0 | $2,107,456 | $421,491 | $2,528,947 |
| 2Y1 | $910,000 | $218,930 | $389,209 | $486,975 | $144,000 | $75,000 | $100,000 | $2,324,114 | $464,823 | $2,788,937 |

Appendix 6
BASIC ELECTRICAL WORK COSTS

| BLOCK_ID1 | PANEL_COST | OH_CABLE_RMV_COST | OH_CUST_CABLE_RMV_COST | STREET_POWER_POLE_RMVL_COST | ALLEY_POLE_COST | BACKLOT_POLE_COST | BASIC_E_Subtotal | BASIC_E_OAP | BASIC_ELEC_SERV_TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| 2A | $338,000 | $47,109 | $44,447 | $71,750 | $0 | $348,000 | $849,306 | $169,861 | $1,019,167 |
| 2AA | $592,000 | $56,089 | $77,848 | $164,500 | $0 | $36,000 | $926,437 | $185,287 | $1,111,724 |
| 2AA1 | $378,000 | $55,858 | $49,707 | $103,250 | $96,000 | $180,000 | $862,815 | $172,563 | $1,035,378 |
| 2AA2 | $1,042,000 | $78,649 | $137,023 | $164,500 | $156,000 | $44,000 | $1,622,172 | $324,434 | $1,946,606 |
| 2B | $766,000 | $73,827 | $100,729 | $215,250 | $2,000 | $240,000 | $1,397,806 | $279,561 | $1,677,367 |
| 2B1 | $502,000 | $37,823 | $66,013 | $141,750 | $0 | $116,000 | $863,586 | $172,717 | $1,036,303 |
| 2B2 | $636,000 | $62,850 | $83,634 | $127,750 | $8,000 | $292,000 | $1,210,234 | $242,047 | $1,452,281 |
| 2B3 | $470,000 | $60,071 | $61,805 | $154,000 | $0 | $284,000 | $1,029,876 | $205,975 | $1,235,851 |
| 2BB | $854,000 | $60,962 | $112,301 | $73,500 | $8,000 | $380,000 | $1,488,763 | $297,753 | $1,786,516 |
| 2BB1 | $2,214,000 | $184,449 | $291,141 | $203,000 | $320,000 | $544,000 | $3,756,590 | $751,318 | $4,507,908 |
| 2C | $860,000 | $84,737 | $113,090 | $288,750 | $26,000 | $132,000 | $1,504,577 | $300,915 | $1,805,492 |
| 2D | $1,116,000 | $98,462 | $146,754 | $329,000 | $88,000 | $156,000 | $1,934,216 | $386,843 | $2,321,059 |
| 2D2 | $674,000 | $60,631 | $88,631 | $217,000 | $2,000 | $160,000 | $1,202,262 | $240,452 | $1,442,714 |
| 2D3 | $576,000 | $59,150 | $75,744 | $203,000 | $38,000 | $60,000 | $1,011,894 | $202,379 | $1,214,273 |
| 2F | $286,000 | $38,798 | $37,609 | $110,250 | $0 | $180,000 | $652,657 | $130,531 | $783,188 |
| 2F1 | $150,000 | $52,254 | $19,725 | $87,500 | $4,000 | $264,000 | $577,479 | $115,496 | $692,975 |
| 2G | $618,000 | $81,533 | $81,267 | $194,250 | $36,000 | $328,000 | $1,339,050 | $267,810 | $1,606,860 |
| 2G1 | $538,000 | $62,807 | $70,747 | $136,500 | $80,000 | $184,000 | $1,072,054 | $214,411 | $1,286,465 |
| 2G5 | $1,206,000 | $96,825 | $158,589 | $225,750 | $104,000 | $188,000 | $1,979,164 | $395,833 | $2,374,997 |
| 2H | $752,000 | $61,609 | $98,888 | $66,500 | $142,000 | $128,000 | $1,248,997 | $249,799 | $1,498,796 |
| 2H1 | $662,000 | $57,337 | $87,053 | $171,500 | $0 | $116,000 | $1,093,890 | $218,778 | $1,312,668 |
| 2I | $684,000 | $57,251 | $89,946 | $187,250 | $10,000 | $156,000 | $1,184,447 | $236,889 | $1,421,336 |
| 2I1 | $534,000 | $46,925 | $70,221 | $162,750 | $0 | $92,000 | $905,896 | $181,179 | $1,087,075 |
| 2K | $538,000 | $40,820 | $70,747 | $84,000 | $106,000 | $12,000 | $851,567 | $170,313 | $1,021,880 |
| 2L | $674,000 | $49,028 | $88,631 | $168,000 | $12,000 | $104,000 | $1,095,659 | $219,132 | $1,314,791 |
| 2L1 | $720,000 | $62,738 | $94,680 | $80,500 | $36,000 | $268,000 | $1,261,918 | $252,384 | $1,514,302 |
| 2M | $700,000 | $47,261 | $92,050 | $105,000 | $102,000 | $100,000 | $1,146,311 | $229,262 | $1,375,573 |
| 2M1 | $788,000 | $70,504 | $103,622 | $92,750 | $56,000 | $292,000 | $1,402,876 | $280,575 | $1,683,451 |
| 2M3 | $606,000 | $59,846 | $79,689 | $113,750 | $10,000 | $264,000 | $1,133,285 | $226,657 | $1,359,942 |
| 2M4 | $816,000 | $64,581 | $107,304 | $131,250 | $106,000 | $180,000 | $1,405,135 | $281,027 | $1,686,162 |
| 2N | $492,000 | $55,474 | $64,698 | $150,500 | $64,000 | $64,000 | $890,672 | $178,134 | $1,068,806 |
| 2N1 | $378,000 | $43,082 | $49,707 | $162,750 | $0 | $56,000 | $689,539 | $137,908 | $827,447 |
| 2O | $1,456,000 | $100,150 | $191,464 | $224,000 | $206,000 | $108,000 | $2,285,614 | $457,123 | $2,742,737 |
| 2P | $668,000 | $38,570 | $87,842 | $45,500 | $142,000 | $12,000 | $993,912 | $198,782 | $1,192,694 |
| 2P1 | $774,000 | $60,995 | $101,781 | $80,500 | $188,000 | $28,000 | $1,233,276 | $246,655 | $1,479,931 |
| 2Q | $602,000 | $35,197 | $79,163 | $101,500 | $104,000 | $0 | $921,860 | $184,372 | $1,106,232 |
| 2Q2 | $1,058,000 | $61,362 | $139,127 | $50,750 | $222,000 | $24,000 | $1,555,239 | $311,048 | $1,866,287 |
| 2Q3 | $962,000 | $63,094 | $126,503 | $38,500 | $226,000 | $104,000 | $1,520,097 | $304,019 | $1,824,116 |
| 2R | $518,000 | $36,973 | $68,117 | $75,250 | $146,000 | $12,000 | $856,340 | $171,268 | $1,027,608 |
| 2R1 | $682,000 | $30,047 | $89,683 | $8,750 | $176,000 | $12,000 | $998,480 | $199,696 | $1,198,176 |
| 2R2 | $826,000 | $48,569 | $108,619 | $22,750 | $200,000 | $20,000 | $1,225,938 | $245,188 | $1,471,126 |
| 2S3 | $650,000 | $25,264 | $85,475 | $54,250 | $110,000 | $0 | $924,989 | $184,998 | $1,109,987 |
| 2S4 | $948,000 | $27,093 | $124,662 | $33,250 | $156,000 | $0 | $1,289,005 | $257,801 | $1,546,806 |
| 2U | $642,000 | $47,450 | $84,423 | $47,250 | $164,000 | $100,000 | $1,085,123 | $217,025 | $1,302,148 |
| 2U1 | $538,000 | $45,841 | $70,747 | $42,000 | $176,000 | $52,000 | $924,588 | $184,918 | $1,109,506 |
| 2V | $632,000 | $34,177 | $83,108 | $10,500 | $162,000 | $24,000 | $945,785 | $189,157 | $1,134,942 |
| 2V1 | $398,000 | $33,699 | $52,337 | $59,500 | $78,000 | $104,000 | $725,536 | $145,107 | $870,643 |
| 2V2 | $432,000 | $32,773 | $56,808 | $12,250 | $162,000 | $20,000 | $715,831 | $143,166 | $858,997 |
| 2W | $548,000 | $85,296 | $72,062 | $157,500 | $0 | $188,000 | $1,050,858 | $210,172 | $1,261,030 |
| 2W1 | $710,000 | $68,353 | $93,365 | $227,500 | $0 | $104,000 | $1,203,218 | $240,644 | $1,443,862 |
| 2X | $802,000 | $58,357 | $105,463 | $42,000 | $146,000 | $188,000 | $1,341,820 | $268,364 | $1,610,184 |
| 2X1 | $856,000 | $53,888 | $112,564 | $24,500 | $190,000 | $40,000 | $1,276,952 | $255,390 | $1,532,342 |
| 2X2 | $872,000 | $55,375 | $114,668 | $33,250 | $190,000 | $52,000 | $1,317,293 | $263,459 | $1,580,752 |
| 2X3 | $644,000 | $64,856 | $84,686 | $38,500 | $256,000 | $44,000 | $1,132,042 | $226,408 | $1,358,450 |
| 2Y | $772,000 | $61,807 | $101,518 | $96,250 | $116,000 | $144,000 | $1,291,575 | $258,315 | $1,549,890 |
| 2Y1 | $576,000 | $61,695 | $75,744 | $73,500 | $204,000 | $80,000 | $1,070,939 | $214,188 | $1,285,127 |

# APPENDIX 6

# DISTRICT 3

Appendix 6
Updated 2009 Master Plan with Applied Current Algorithms

| BLOCK_ID1 | CIP_ID | Council District | INTERSECTIONS | Backlot_Poles | ALLEY_Poles | OH_Poles | XFMR_Count | Meters | P_Length | ServiceDrop | SUB_Count |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3A | UU931 | 9 | 13 | 18 | 55 | 83 | 30 | 1366 | 8,476.57 | 303 | 0 |
| 3AA | UU915 | 9 | 41 | 25 | 80 | 155 | 39 | 1210 | 16,238.48 | 391 | 0 |
| 3AA1 | UU213 | 9 | 0 | 2 | 60 | 70 | 30 | 1359 | 5,819.70 | 219 | 0 |
| 3B | UU925 | 3 | 67 | 123 | 91 | 370 | 82 | 1793 | 42,325.90 | 863 | 0 |
| 3BB | UU909 | 3 | 31 | 46 | 49 | 147 | 30 | 1053 | 16,110.42 | 331 | 0 |
| 3BB1 | UU910 | 3 | 32 | 33 | 44 | 129 | 30 | 698 | 12,851.87 | 346 | 0 |
| 3BB2 | UU912 | 3 | 31 | 21 | 77 | 128 | 32 | 1180 | 13,321.39 | 300 | 0 |
| 3C | UU808 | 3 | 20 | 60 | 0 | 118 | 20 | 383 | 13,461.57 | 209 | 0 |
| 3CC | UU905 | 9 | 4 | 120 | 4 | 150 | 53 | 489 | 17,891.06 | 386 | 0 |
| 3CC1 | UU906 | 9 | 17 | 83 | 21 | 138 | 37 | 481 | 17,319.01 | 300 | 0 |
| 3CC2 | UU907 | 9 | 4 | 107 | 0 | 123 | 37 | 334 | 28,480.03 | 237 | 0 |
| 3CC2 | UU907 | 9 | 5 | 66 | 9 | 93 | 31 | 296 | 28,480.03 | 265 | 0 |
| 3D | UU928 | 9 | 42 | 73 | 8 | 264 | 63 | 801 | 31,394.18 | 712 | 0 |
| 3E | UU926 | 3 | 56 | 89 | 7 | 244 | 61 | 780 | 31,547.67 | 646 | 0 |
| 3F | UU927 | 3 | 23 | 48 | 9 | 137 | 25 | 630 | 14,295.81 | 271 | 0 |
| 3G1 | UU434 | 3 | 46 | 32 | 85 | 193 | 43 | 730 | 21,408.99 | 435 | 0 |
| 3GG | UU922 | 3 | 29 | 21 | 141 | 197 | 65 | 3374 | 18,929.87 | 422 | 0 |
| 3H1 | UU432 | 3 | 45 | 13 | 78 | 183 | 52 | 1174 | 21,421.31 | 534 | 0 |
| 3II | UU913 | 3 | 46 | 21 | 82 | 145 | 33 | 1452 | 16,015.53 | 350 | 0 |
| 3II1 | UU914 | 3 | 20 | 28 | 52 | 104 | 32 | 1510 | 10,298.98 | 329 | 0 |
| 3II2 | UU212 | 3 | 13 | 19 | 86 | 111 | 32 | 1582 | 8,973.72 | 322 | 0 |
| 3J | UU435 | 9 | 99 | 33 | 94 | 320 | 82 | 1793 | 38,566.86 | 848 | 0 |
| 3K | UU904 | 9 | 95 | 19 | 133 | 247 | 64 | 1300 | 31,343.66 | 615 | 0 |
| 3L | UU929 | 9 | 54 | 26 | 127 | 209 | 48 | 1071 | 27,921.68 | 599 | 0 |
| 3M | UU358 | 9 | 22 | 5 | 117 | 141 | 44 | 2429 | 13,154.60 | 412 | 0 |
| 3M1 | UU361 | 9 | 10 | 10 | 97 | 111 | 43 | 1981 | 11,427.33 | 415 | 0 |
| 3O | UU930 | 9 | 19 | 29 | 100 | 165 | 37 | 1714 | 17,163.65 | 393 | 0 |
| 3O1 | UU359 | 9 | 26 | 21 | 100 | 140 | 42 | 2262 | 15,316.32 | 487 | 0 |
| 3P | UU806 | 3 | 38 | 5 | 95 | 140 | 41 | 1383 | 14,990.99 | 357 | 0 |
| 3P1 | UU807 | 3 | 36 | 65 | 59 | 157 | 26 | 756 | 18,386.68 | 404 | 0 |
| 3P2 | UU433 | 3 | 26 | 16 | 104 | 159 | 39 | 1171 | 17,900.11 | 505 | 0 |
| 3Q | UU804 | 3 | 27 | 43 | 58 | 135 | 37 | 1625 | 15,056.91 | 397 | 0 |
| 3Q1 | UU805 | 3 | 42 | 48 | 84 | 198 | 36 | 731 | 19,818.82 | 502 | 0 |
| 3R | UU921 | 3 | 28 | 27 | 107 | 148 | 50 | 3242 | 15,871.56 | 349 | 0 |
| 3R2 | UU924 | 3 | 38 | 47 | 46 | 197 | 45 | 1876 | 23,741.38 | 341 | 0 |
| 3S | UU918 | 3 | 25 | 26 | 66 | 121 | 41 | 1227 | 11,591.04 | 220 | 0 |
| 3S1 | UU923 | 3 | 45 | 30 | 69 | 173 | 41 | 1211 | 19,779.53 | 326 | 0 |
| 3T | UU818 | 3 | 10 | 4 | 62 | 105 | 32 | 1025 | 7,179.54 | 187 | 0 |
| 3T1 | UU916 | 3 | 36 | 10 | 47 | 127 | 32 | 1021 | 14,015.26 | 210 | 0 |
| 3T2 | UU917 | 3 | 14 | 10 | 58 | 102 | 35 | 1110 | 9,990.33 | 206 | 0 |
| 3U | UU214 | 3 | 30 | 47 | 43 | 190 | 48 | 1274 | 23,914.26 | 288 | 0 |
| 3U1 | UU429 | 3 | 35 | 38 | 52 | 162 | 36 | 569 | 16,761.25 | 329 | 0 |
| 3V | UU932 | 9 | 12 | 14 | 111 | 137 | 44 | 2080 | 13,666.37 | 481 | 0 |
| 3V1 | UU360 | 9 | 32 | 27 | 76 | 141 | 38 | 1316 | 14,881.98 | 480 | 0 |
| 3W | UU430 | 3 | 38 | 32 | 65 | 172 | 47 | 1461 | 18,776.81 | 395 | 0 |
| 3W1 | UU431 | 3 | 28 | 23 | 86 | 137 | 38 | 1928 | 13,703.89 | 305 | 0 |
| 3X | UU187 | 3 | 21 | 22 | 53 | 131 | 38 | 1150 | 14,042.49 | 315 | 1 |
| 3X1 | UU792 | 3 | 35 | 26 | 121 | 168 | 55 | 2280 | 17,431.16 | 379 | 0 |
| 3X2 | UU919 | 3 | 28 | 29 | 97 | 144 | 43 | 1817 | 14,345.68 | 321 | 0 |
| 3Y | UU911 | 3 | 23 | 42 | 45 | 125 | 29 | 945 | 12,123.61 | 315 | 0 |
| 3Y1 | UU793 | 3 | 16 | 19 | 57 | 87 | 31 | 1695 | 9,665.16 | 317 | 0 |
| 3Y2 | UU794 | 3 | 15 | 17 | 74 | 99 | 37 | 2281 | 9,836.15 | 231 | 0 |
| 3Y3 | UU920 | 3 | 34 | 18 | 105 | 148 | 40 | 1690 | 14,495.36 | 251 | 1 |
| 3Z | UU795 | 3 | 36 | 30 | 121 | 178 | 60 | 2620 | 19,276.00 | 459 | 0 |

Appendix 6
Updated 2009 Master Plan with Applied Current Algorithms

| BLOCK_ID1 | TOTAL_CONST_SUM | CHANGE_ORDERS_COST | PRGM_MGMT_COST | ENGNR_SRVCS_COST | BLOCK_COST |
|---|---|---|---|---|---|
| 3A | $5,615,378 | $561,538 | $449,230 | $673,845 | $7,299,991 |
| 3AA | $9,164,068 | $916,407 | $733,125 | $1,099,688 | $11,913,288 |
| 3AA1 | $4,154,177 | $415,418 | $332,334 | $498,501 | $5,400,430 |
| 3B | $22,340,616 | $2,234,062 | $1,787,249 | $2,680,874 | $29,042,801 |
| 3BB | $8,612,302 | $861,230 | $688,984 | $1,033,476 | $11,195,992 |
| 3BB1 | $7,505,417 | $750,542 | $600,433 | $900,650 | $9,757,042 |
| 3BB2 | $7,434,280 | $743,428 | $594,742 | $892,114 | $9,664,564 |
| 3C | $6,761,840 | $676,184 | $540,947 | $811,421 | $8,790,392 |
| 3CC | $10,142,727 | $1,014,273 | $811,418 | $1,217,127 | $13,185,545 |
| 3CC1 | $9,042,080 | $904,208 | $723,366 | $1,085,050 | $11,754,704 |
| 3CC2 | $12,508,035 | $1,250,804 | $1,000,643 | $1,500,964 | $16,260,446 |
| 3CC2 | $12,366,267 | $1,236,627 | $989,301 | $1,483,952 | $16,076,147 |
| 3D | $16,940,226 | $1,694,023 | $1,355,218 | $2,032,827 | $22,022,294 |
| 3E | $16,613,742 | $1,661,374 | $1,329,099 | $1,993,649 | $21,597,864 |
| 3F | $7,510,960 | $751,096 | $600,877 | $901,315 | $9,764,248 |
| 3G1 | $11,358,542 | $1,135,854 | $908,683 | $1,363,025 | $14,766,104 |
| 3GG | $10,899,354 | $1,089,935 | $871,948 | $1,307,922 | $14,169,159 |
| 3H1 | $12,024,981 | $1,202,498 | $961,998 | $1,442,998 | $15,632,475 |
| 3II | $8,717,321 | $871,732 | $697,386 | $1,046,079 | $11,332,518 |
| 3II1 | $6,506,972 | $650,697 | $520,558 | $780,837 | $8,459,064 |
| 3II2 | $6,004,921 | $600,492 | $480,394 | $720,591 | $7,806,398 |
| 3J | $20,685,339 | $2,068,534 | $1,654,827 | $2,482,241 | $26,890,941 |
| 3K | $16,368,255 | $1,636,826 | $1,309,460 | $1,964,191 | $21,278,732 |
| 3L | $14,636,809 | $1,463,681 | $1,170,945 | $1,756,417 | $19,027,852 |
| 3M | $8,239,777 | $823,978 | $659,182 | $988,773 | $10,711,710 |
| 3M1 | $7,563,097 | $756,310 | $605,048 | $907,572 | $9,832,027 |
| 3O | $9,453,158 | $945,316 | $756,253 | $1,134,379 | $12,289,106 |
| 3O1 | $9,389,183 | $938,918 | $751,135 | $1,126,702 | $12,205,938 |
| 3P | $8,508,988 | $850,899 | $680,719 | $1,021,079 | $11,061,685 |
| 3P1 | $9,787,364 | $978,736 | $782,989 | $1,174,484 | $12,723,573 |
| 3P2 | $10,321,723 | $1,032,172 | $825,738 | $1,238,607 | $13,418,240 |
| 3Q | $8,731,434 | $873,143 | $698,515 | $1,047,772 | $11,350,864 |
| 3Q1 | $11,083,104 | $1,108,310 | $886,648 | $1,329,972 | $14,408,034 |
| 3R | $9,038,756 | $903,876 | $723,100 | $1,084,651 | $11,750,383 |
| 3R2 | $11,716,749 | $1,171,675 | $937,340 | $1,406,010 | $15,231,774 |
| 3S | $6,578,123 | $657,812 | $526,250 | $789,375 | $8,551,560 |
| 3S1 | $10,112,954 | $1,011,295 | $809,036 | $1,213,554 | $13,146,839 |
| 3T | $4,578,044 | $457,804 | $366,244 | $549,365 | $5,951,457 |
| 3T1 | $7,142,817 | $714,282 | $571,425 | $857,138 | $9,285,662 |
| 3T2 | $5,721,993 | $572,199 | $457,759 | $686,639 | $7,438,590 |
| 3U | $11,510,256 | $1,151,026 | $920,820 | $1,381,231 | $14,963,333 |
| 3U1 | $8,961,697 | $896,170 | $716,936 | $1,075,404 | $11,650,207 |
| 3V | $8,785,632 | $878,563 | $702,851 | $1,054,276 | $11,421,322 |
| 3V1 | $9,128,973 | $912,897 | $730,318 | $1,095,477 | $11,867,665 |
| 3W | $10,268,350 | $1,026,835 | $821,468 | $1,232,202 | $13,348,855 |
| 3W1 | $7,748,921 | $774,892 | $619,914 | $929,871 | $10,073,598 |
| 3X | $7,992,344 | $799,234 | $639,388 | $959,081 | $10,390,047 |
| 3X1 | $9,885,636 | $988,564 | $790,851 | $1,186,276 | $12,851,327 |
| 3X2 | $8,193,831 | $819,383 | $655,506 | $983,260 | $10,651,980 |
| 3Y | $7,068,380 | $706,838 | $565,470 | $848,206 | $9,188,894 |
| 3Y1 | $6,140,155 | $614,016 | $491,212 | $736,819 | $7,982,202 |
| 3Y2 | $5,882,008 | $588,201 | $470,561 | $705,841 | $7,646,611 |
| 3Y3 | $7,907,586 | $790,759 | $632,607 | $948,910 | $10,279,862 |
| 3Z | $11,097,823 | $1,109,782 | $887,826 | $1,331,739 | $14,427,170 |

Appendix 6
CIVIL WORK COSTS

| BLOCK_ID1 | Pub_Notice_Cost | Joint_Trench_Cost | Non_Joint_Trench_Cost | Cust_Trench_Cost | Road_Resurf_Cost | Streetlights_Cost | Curb_Ramp_Cost | Permits_Inspections_Cost | Tree_Cost | SWPPP_Cost | Traff_Control_Cost | Civil_Subtotal_Cost | CIVIL_OAP | CIVIL_SUM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3A | $16,160 | $974,805 | $162,451 | $454,500 | $292,442 | $339,063 | $19,500 | $12,120 | $6,666 | $121,851 | $45,000 | $2,444,558 | $488,912 | $2,933,470 |
| 3AA | $14,600 | $1,867,425 | $311,206 | $586,500 | $560,227 | $649,539 | $61,500 | $15,640 | $8,602 | $233,428 | $45,000 | $4,353,667 | $870,733 | $5,224,400 |
| 3AA1 | $16,090 | $669,266 | $111,533 | $328,500 | $200,780 | $232,788 | $0 | $8,760 | $4,818 | $83,658 | $45,000 | $1,701,193 | $340,239 | $2,041,432 |
| 3B | $20,430 | $4,867,479 | $811,165 | $1,294,500 | $1,460,244 | $1,693,036 | $100,500 | $34,520 | $18,986 | $608,435 | $45,000 | $10,954,295 | $2,190,859 | $13,145,154 |
| 3BB | $13,030 | $1,852,698 | $308,752 | $496,500 | $555,809 | $644,417 | $46,500 | $13,240 | $7,282 | $231,587 | $45,000 | $4,214,815 | $842,963 | $5,057,778 |
| 3BB1 | $9,480 | $1,477,965 | $246,303 | $519,000 | $443,389 | $514,075 | $48,000 | $13,840 | $7,612 | $184,746 | $45,000 | $3,509,410 | $701,882 | $4,211,292 |
| 3BB2 | $14,300 | $1,531,960 | $255,301 | $450,000 | $459,588 | $532,856 | $46,500 | $12,000 | $6,600 | $191,495 | $45,000 | $3,545,600 | $709,120 | $4,254,720 |
| 3C | $6,330 | $1,548,081 | $257,988 | $313,500 | $464,424 | $538,463 | $30,000 | $8,360 | $4,598 | $193,510 | $45,000 | $3,410,254 | $682,051 | $4,092,305 |
| 3CC | $7,390 | $2,057,472 | $342,878 | $579,000 | $617,242 | $715,642 | $6,000 | $15,440 | $8,492 | $257,184 | $45,000 | $4,651,740 | $930,348 | $5,582,088 |
| 3CC1 | $7,310 | $1,991,687 | $331,915 | $450,000 | $597,506 | $692,761 | $25,500 | $12,000 | $6,600 | $248,961 | $45,000 | $4,409,240 | $881,848 | $5,291,088 |
| 3CC2 | $5,840 | $3,275,204 | $545,813 | $355,500 | $982,561 | $1,139,201 | $6,000 | $9,480 | $5,214 | $409,400 | $45,000 | $6,779,213 | $1,355,843 | $8,135,056 |
| 3CC2 | $5,460 | $3,275,204 | $545,813 | $397,500 | $982,561 | $1,139,201 | $7,500 | $10,600 | $5,830 | $409,400 | $45,000 | $6,824,069 | $1,364,814 | $8,188,883 |
| 3D | $10,510 | $3,610,330 | $601,662 | $1,068,000 | $1,083,099 | $1,255,767 | $63,000 | $28,480 | $15,664 | $451,291 | $45,000 | $8,232,803 | $1,646,561 | $9,879,364 |
| 3E | $10,300 | $3,627,982 | $604,603 | $969,000 | $1,088,395 | $1,261,907 | $84,000 | $25,840 | $14,212 | $453,498 | $45,000 | $8,184,737 | $1,636,947 | $9,821,684 |
| 3F | $8,800 | $1,644,018 | $273,976 | $406,500 | $493,205 | $571,832 | $34,500 | $10,840 | $5,962 | $205,502 | $45,000 | $3,700,135 | $740,027 | $4,440,162 |
| 3G1 | $9,800 | $2,462,034 | $410,298 | $652,500 | $738,610 | $856,360 | $69,000 | $17,400 | $9,570 | $307,754 | $45,000 | $5,578,326 | $1,115,665 | $6,693,991 |
| 3GG | $36,240 | $2,176,935 | $362,786 | $633,000 | $653,081 | $757,195 | $43,500 | $16,880 | $9,284 | $272,117 | $45,000 | $5,006,018 | $1,001,204 | $6,007,222 |
| 3H1 | $14,240 | $2,463,451 | $410,534 | $801,000 | $739,035 | $856,852 | $67,500 | $21,360 | $11,748 | $307,931 | $45,000 | $5,738,651 | $1,147,730 | $6,886,381 |
| 3II | $17,020 | $1,841,786 | $306,934 | $525,000 | $552,536 | $640,621 | $69,000 | $14,000 | $7,700 | $230,223 | $45,000 | $4,249,820 | $849,964 | $5,099,784 |
| 3II1 | $17,600 | $1,184,383 | $197,377 | $493,500 | $355,315 | $411,959 | $30,000 | $13,160 | $7,238 | $148,048 | $45,000 | $2,903,580 | $580,716 | $3,484,296 |
| 3II2 | $18,320 | $1,031,978 | $171,979 | $483,000 | $309,593 | $358,949 | $19,500 | $12,880 | $7,084 | $128,997 | $45,000 | $2,587,280 | $517,456 | $3,104,736 |
| 3J | $20,430 | $4,435,189 | $739,124 | $1,272,000 | $1,330,557 | $1,542,674 | $148,500 | $33,920 | $18,656 | $554,399 | $45,000 | $10,140,449 | $2,028,090 | $12,168,539 |
| 3K | $15,500 | $3,604,521 | $600,693 | $922,500 | $1,081,356 | $1,253,746 | $142,500 | $24,600 | $13,530 | $450,565 | $45,000 | $8,154,511 | $1,630,902 | $9,785,413 |
| 3L | $13,210 | $3,210,993 | $535,112 | $898,500 | $963,298 | $1,116,867 | $81,000 | $23,960 | $13,178 | $401,374 | $45,000 | $7,302,492 | $1,460,498 | $8,762,990 |
| 3M | $26,790 | $1,512,779 | $252,105 | $618,000 | $453,834 | $526,184 | $33,000 | $16,480 | $9,064 | $189,097 | $45,000 | $3,682,333 | $736,467 | $4,418,800 |
| 3M1 | $22,310 | $1,314,142 | $219,002 | $622,500 | $394,243 | $457,093 | $15,000 | $16,600 | $9,130 | $164,268 | $45,000 | $3,279,288 | $655,858 | $3,935,146 |
| 3O | $19,640 | $1,973,819 | $328,937 | $589,500 | $592,146 | $686,546 | $28,500 | $15,720 | $8,646 | $246,727 | $45,000 | $4,535,181 | $907,036 | $5,442,217 |
| 3O1 | $25,120 | $1,761,377 | $293,533 | $730,500 | $528,413 | $612,653 | $39,000 | $19,480 | $10,714 | $220,172 | $45,000 | $4,285,962 | $857,192 | $5,143,154 |
| 3P | $16,330 | $1,723,964 | $287,299 | $535,500 | $517,189 | $599,640 | $57,000 | $14,280 | $7,854 | $215,495 | $45,000 | $4,019,551 | $803,910 | $4,823,461 |
| 3P1 | $10,060 | $2,114,468 | $352,376 | $606,000 | $634,340 | $735,467 | $54,000 | $16,160 | $8,888 | $264,309 | $45,000 | $4,841,068 | $968,214 | $5,809,282 |
| 3P2 | $14,210 | $2,058,513 | $343,051 | $757,500 | $617,554 | $716,004 | $39,000 | $20,200 | $11,110 | $257,314 | $45,000 | $4,879,456 | $975,891 | $5,855,347 |
| 3Q | $18,750 | $1,731,544 | $288,562 | $595,500 | $519,463 | $602,276 | $40,500 | $15,880 | $8,734 | $216,443 | $45,000 | $4,082,652 | $816,530 | $4,899,182 |
| 3Q1 | $9,810 | $2,279,164 | $379,823 | $753,000 | $683,749 | $792,753 | $63,000 | $20,080 | $11,044 | $284,896 | $45,000 | $5,322,319 | $1,064,464 | $6,386,783 |
| 3R | $34,920 | $1,825,230 | $304,175 | $523,500 | $547,569 | $634,863 | $42,000 | $13,960 | $7,678 | $228,154 | $45,000 | $4,207,049 | $841,410 | $5,048,459 |
| 3R2 | $21,260 | $2,730,258 | $454,998 | $511,500 | $819,078 | $949,655 | $57,000 | $13,640 | $7,502 | $341,282 | $45,000 | $5,951,173 | $1,190,235 | $7,141,408 |
| 3S | $14,770 | $1,332,970 | $222,139 | $330,000 | $399,891 | $463,642 | $37,500 | $8,800 | $4,840 | $166,621 | $45,000 | $3,026,173 | $605,235 | $3,631,408 |
| 3S1 | $14,610 | $2,274,646 | $379,070 | $489,000 | $682,394 | $791,181 | $67,500 | $13,040 | $7,172 | $284,331 | $45,000 | $5,047,944 | $1,009,589 | $6,057,533 |
| 3T | $12,750 | $825,647 | $137,594 | $280,500 | $247,694 | $287,182 | $15,000 | $7,480 | $4,114 | $103,206 | $45,000 | $1,966,167 | $393,233 | $2,359,400 |
| 3T1 | $12,710 | $1,611,755 | $268,599 | $315,000 | $483,526 | $560,610 | $54,000 | $8,400 | $4,620 | $201,469 | $45,000 | $3,565,689 | $713,138 | $4,278,827 |
| 3T2 | $13,600 | $1,148,888 | $191,462 | $309,000 | $344,667 | $399,613 | $21,000 | $8,240 | $4,532 | $143,611 | $45,000 | $2,629,613 | $525,923 | $3,155,536 |
| 3U | $15,240 | $2,750,140 | $458,311 | $432,000 | $825,042 | $956,570 | $45,000 | $11,520 | $6,336 | $343,767 | $45,000 | $5,888,926 | $1,177,785 | $7,066,711 |
| 3U1 | $8,190 | $1,927,544 | $321,225 | $493,500 | $578,263 | $670,450 | $52,500 | $13,160 | $7,238 | $240,943 | $45,000 | $4,358,013 | $871,603 | $5,229,616 |
| 3V | $23,300 | $1,571,633 | $261,913 | $721,500 | $471,490 | $546,655 | $18,000 | $19,240 | $10,582 | $196,454 | $45,000 | $3,885,767 | $777,153 | $4,662,920 |
| 3V1 | $15,660 | $1,711,428 | $285,209 | $720,000 | $513,428 | $595,279 | $48,000 | $19,200 | $10,560 | $213,928 | $45,000 | $4,177,692 | $835,538 | $5,013,230 |
| 3W | $17,110 | $2,159,333 | $359,853 | $592,500 | $647,800 | $751,072 | $57,000 | $15,800 | $8,690 | $269,917 | $45,000 | $4,924,075 | $984,815 | $5,908,890 |
| 3W1 | $21,780 | $1,575,948 | $262,632 | $457,500 | $472,784 | $548,156 | $42,000 | $12,200 | $6,710 | $196,993 | $45,000 | $3,641,703 | $728,341 | $4,370,044 |
| 3X | $14,000 | $1,614,886 | $269,121 | $472,500 | $484,466 | $561,700 | $31,500 | $12,600 | $6,930 | $201,861 | $45,000 | $3,714,564 | $742,913 | $4,457,477 |
| 3X1 | $25,300 | $2,004,583 | $334,064 | $568,500 | $601,375 | $697,246 | $52,500 | $15,160 | $8,338 | $250,573 | $45,000 | $4,602,639 | $920,528 | $5,523,167 |
| 3X2 | $20,670 | $1,649,753 | $274,931 | $481,500 | $494,926 | $573,827 | $42,000 | $12,840 | $7,062 | $206,219 | $45,000 | $3,808,728 | $761,746 | $4,570,474 |
| 3Y | $11,950 | $1,394,216 | $232,346 | $472,500 | $418,265 | $484,945 | $34,500 | $12,600 | $6,930 | $174,277 | $45,000 | $3,287,529 | $657,506 | $3,945,035 |
| 3Y1 | $19,450 | $1,111,493 | $185,230 | $475,500 | $333,448 | $386,606 | $24,000 | $12,680 | $6,974 | $138,937 | $45,000 | $2,739,318 | $547,864 | $3,287,182 |
| 3Y2 | $25,310 | $1,131,158 | $188,507 | $346,500 | $339,347 | $393,446 | $22,500 | $9,240 | $5,082 | $141,395 | $45,000 | $2,647,485 | $529,497 | $3,176,982 |
| 3Y3 | $19,400 | $1,666,966 | $277,800 | $376,500 | $500,090 | $579,814 | $51,000 | $10,040 | $5,522 | $208,371 | $45,000 | $3,740,503 | $748,101 | $4,488,604 |
| 3Z | $28,700 | $2,216,739 | $369,420 | $688,500 | $665,022 | $771,040 | $54,000 | $18,360 | $10,098 | $277,092 | $45,000 | $5,143,971 | $1,028,794 | $6,172,765 |

Appendix 6
SPECIAL ELECTTRICAL WORK COSTS

| BLOCK_ID1 | XFMR_COST | PRIM_BACKBONE_CABLING_COST | SEC_BACKBONE_CABLING_COST | CUST_CABLE_COST | CUT_OVER_COST | BOUND_CIRC_FEEDER_COST | SUBSTATION_COST | SPCL_E_Subtotal | SPCL_E_OAP | SPECIAL_ELEC_SERV_TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| 3A | $525,000 | $105,279 | $187,163 | $276,125 | $151,500 | $75,000 | $0 | $1,320,067 | $264,013 | $1,584,080 |
| 3AA | $682,500 | $201,682 | $358,546 | $480,660 | $195,500 | $75,000 | $0 | $1,993,888 | $398,778 | $2,392,666 |
| 3AA1 | $525,000 | $72,281 | $128,499 | $192,375 | $109,500 | $75,000 | $0 | $1,102,655 | $220,531 | $1,323,186 |
| 3B | $1,435,000 | $525,688 | $934,556 | $1,213,031 | $431,500 | $75,000 | $0 | $4,614,775 | $922,955 | $5,537,730 |
| 3BB | $525,000 | $200,091 | $355,718 | $462,355 | $165,500 | $75,000 | $0 | $1,783,664 | $356,733 | $2,140,397 |
| 3BB1 | $525,000 | $159,620 | $283,769 | $389,735 | $173,000 | $75,000 | $0 | $1,606,124 | $321,225 | $1,927,349 |
| 3BB2 | $560,000 | $165,452 | $294,136 | $389,020 | $150,000 | $75,000 | $0 | $1,633,608 | $326,722 | $1,960,330 |
| 3C | $350,000 | $167,193 | $297,232 | $369,104 | $104,500 | $75,000 | $0 | $1,363,029 | $272,606 | $1,635,635 |
| 3CC | $927,500 | $222,207 | $395,035 | $518,154 | $193,000 | $75,000 | $0 | $2,330,896 | $466,179 | $2,797,075 |
| 3CC1 | $647,500 | $215,102 | $382,404 | $482,804 | $150,000 | $75,000 | $0 | $1,952,810 | $390,562 | $2,343,372 |
| 3CC2 | $647,500 | $353,722 | $628,839 | $728,577 | $118,500 | $75,000 | $0 | $2,552,138 | $510,428 | $3,062,566 |
| 3CC2 | $542,500 | $353,722 | $628,839 | $735,717 | $132,500 | $75,000 | $0 | $2,468,278 | $493,656 | $2,961,934 |
| 3D | $1,102,500 | $389,916 | $693,183 | $918,067 | $356,000 | $75,000 | $0 | $3,534,666 | $706,933 | $4,241,599 |
| 3E | $1,067,500 | $391,822 | $696,573 | $904,838 | $323,000 | $75,000 | $0 | $3,458,733 | $691,747 | $4,150,480 |
| 3F | $437,500 | $177,554 | $315,651 | $404,485 | $135,500 | $75,000 | $0 | $1,545,690 | $309,138 | $1,854,828 |
| 3G1 | $752,500 | $265,900 | $472,710 | $613,180 | $217,500 | $75,000 | $0 | $2,396,790 | $479,358 | $2,876,148 |
| 3GG | $1,137,500 | $235,109 | $417,972 | $551,705 | $211,000 | $75,000 | $0 | $2,628,286 | $525,657 | $3,153,943 |
| 3H1 | $910,000 | $266,053 | $472,983 | $638,714 | $267,000 | $75,000 | $0 | $2,629,750 | $525,950 | $3,155,700 |
| 3II | $577,500 | $198,913 | $353,623 | $464,974 | $175,000 | $75,000 | $0 | $1,845,010 | $369,002 | $2,214,012 |
| 3II1 | $560,000 | $127,913 | $227,401 | $325,509 | $164,500 | $75,000 | $0 | $1,480,323 | $296,065 | $1,776,388 |
| 3II2 | $560,000 | $111,454 | $198,140 | $292,633 | $161,000 | $75,000 | $0 | $1,398,227 | $279,645 | $1,677,872 |
| 3J | $1,435,000 | $479,000 | $851,556 | $1,121,019 | $424,000 | $75,000 | $0 | $4,385,575 | $877,115 | $5,262,690 |
| 3K | $1,120,000 | $389,288 | $692,068 | $892,147 | $307,500 | $75,000 | $0 | $3,476,003 | $695,201 | $4,171,204 |
| 3L | $840,000 | $346,787 | $616,511 | $807,788 | $299,500 | $75,000 | $0 | $2,985,586 | $597,117 | $3,582,703 |
| 3M | $770,000 | $163,380 | $290,454 | $413,667 | $206,000 | $75,000 | $0 | $1,918,501 | $383,700 | $2,302,201 |
| 3M1 | $752,500 | $141,927 | $252,315 | $373,910 | $207,500 | $75,000 | $0 | $1,803,152 | $360,630 | $2,163,782 |
| 3O | $647,500 | $213,172 | $378,973 | $502,874 | $196,500 | $75,000 | $0 | $2,014,019 | $402,804 | $2,416,823 |
| 3O1 | $735,000 | $190,229 | $338,184 | $483,506 | $243,500 | $75,000 | $0 | $2,065,419 | $413,084 | $2,478,503 |
| 3P | $717,500 | $186,188 | $331,001 | $442,724 | $178,500 | $75,000 | $0 | $1,930,913 | $386,183 | $2,317,096 |
| 3P1 | $455,000 | $228,363 | $405,978 | $534,372 | $202,000 | $75,000 | $0 | $1,900,713 | $380,143 | $2,280,856 |
| 3P2 | $682,500 | $222,319 | $395,234 | $548,712 | $252,500 | $75,000 | $0 | $2,176,265 | $435,253 | $2,611,518 |
| 3Q | $647,500 | $187,007 | $332,456 | $454,470 | $198,500 | $75,000 | $0 | $1,894,933 | $378,987 | $2,273,920 |
| 3Q1 | $630,000 | $246,150 | $437,600 | $592,959 | $251,000 | $75,000 | $0 | $2,232,709 | $446,542 | $2,679,251 |
| 3R | $875,000 | $197,125 | $350,444 | $461,342 | $174,500 | $75,000 | $0 | $2,133,411 | $426,682 | $2,560,093 |
| 3R2 | $787,500 | $294,868 | $524,210 | $643,928 | $170,500 | $75,000 | $0 | $2,496,006 | $499,201 | $2,995,207 |
| 3S | $717,500 | $143,961 | $255,930 | $328,026 | $110,000 | $75,000 | $0 | $1,630,417 | $326,083 | $1,956,500 |
| 3S1 | $717,500 | $245,662 | $436,732 | $547,158 | $163,000 | $75,000 | $0 | $2,185,052 | $437,010 | $2,622,062 |
| 3T | $560,000 | $89,170 | $158,524 | $216,117 | $93,500 | $75,000 | $0 | $1,192,311 | $238,462 | $1,430,773 |
| 3T1 | $560,000 | $174,070 | $309,457 | $382,348 | $105,000 | $75,000 | $0 | $1,605,875 | $321,175 | $1,927,050 |
| 3T2 | $612,500 | $124,080 | $220,587 | $286,903 | $103,000 | $75,000 | $0 | $1,422,070 | $284,414 | $1,706,484 |
| 3U | $840,000 | $297,015 | $528,027 | $634,468 | $144,000 | $75,000 | $0 | $2,518,510 | $503,702 | $3,022,212 |
| 3U1 | $630,000 | $208,175 | $370,088 | $477,114 | $164,500 | $75,000 | $0 | $1,924,877 | $384,975 | $2,309,852 |
| 3V | $770,000 | $169,736 | $301,754 | $443,268 | $240,500 | $75,000 | $0 | $2,000,258 | $400,052 | $2,400,310 |
| 3V1 | $665,000 | $184,834 | $328,594 | $471,531 | $240,000 | $75,000 | $0 | $1,964,959 | $392,992 | $2,357,951 |
| 3W | $822,500 | $233,208 | $414,592 | $541,229 | $197,500 | $75,000 | $0 | $2,284,029 | $456,806 | $2,740,835 |
| 3W1 | $665,000 | $170,202 | $302,582 | $399,268 | $152,500 | $75,000 | $0 | $1,764,552 | $352,910 | $2,117,462 |
| 3X | $665,000 | $174,408 | $310,058 | $409,762 | $157,500 | $75,000 | $100,000 | $1,891,728 | $378,346 | $2,270,074 |
| 3X1 | $962,500 | $216,495 | $384,880 | $505,580 | $189,500 | $75,000 | $0 | $2,333,955 | $466,791 | $2,800,746 |
| 3X2 | $752,500 | $178,173 | $316,753 | $418,405 | $160,500 | $75,000 | $0 | $1,901,331 | $380,266 | $2,281,597 |
| 3Y | $507,500 | $150,575 | $267,689 | $364,745 | $157,500 | $75,000 | $0 | $1,523,009 | $304,602 | $1,827,611 |
| 3Y1 | $542,500 | $120,041 | $213,407 | $307,580 | $158,500 | $75,000 | $0 | $1,417,028 | $283,406 | $1,700,434 |
| 3Y2 | $647,500 | $122,165 | $217,182 | $289,661 | $115,500 | $75,000 | $0 | $1,467,008 | $293,402 | $1,760,410 |
| 3Y3 | $700,000 | $180,032 | $320,057 | $404,066 | $125,500 | $75,000 | $100,000 | $1,904,655 | $380,931 | $2,285,586 |
| 3Z | $1,050,000 | $239,408 | $425,614 | $569,260 | $229,500 | $75,000 | $0 | $2,588,782 | $517,756 | $3,106,538 |

Appendix 6
BASIC ELECTRICAL WORK COSTS

| BLOCK_ID1 | PANEL_COST | OH_CABLE_RMV_COST | OH_CUST_CABLE_RMV_COST | STREET_POWER_POLE_RMVL_COST | ALLEY_POLE_COST | BACKLOT_POLE_COST | BASIC_E_Subtotal | BASIC_E_OAP | BASIC_ELEC_SERV_TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| 3A | $606,000 | $29,668 | $79,689 | $17,500 | $110,000 | $72,000 | $914,857 | $182,971 | $1,097,828 |
| 3AA | $782,000 | $56,835 | $102,833 | $87,500 | $160,000 | $100,000 | $1,289,168 | $257,834 | $1,547,002 |
| 3AA1 | $438,000 | $20,369 | $57,597 | $14,000 | $120,000 | $8,000 | $657,966 | $131,593 | $789,559 |
| 3B | $1,726,000 | $148,141 | $226,969 | $273,000 | $182,000 | $492,000 | $3,048,110 | $609,622 | $3,657,732 |
| 3BB | $662,000 | $56,386 | $87,053 | $91,000 | $98,000 | $184,000 | $1,178,439 | $235,688 | $1,414,127 |
| 3BB1 | $692,000 | $44,982 | $90,998 | $91,000 | $88,000 | $132,000 | $1,138,980 | $227,796 | $1,366,776 |
| 3BB2 | $600,000 | $46,625 | $78,900 | $52,500 | $154,000 | $84,000 | $1,016,025 | $203,205 | $1,219,230 |
| 3C | $418,000 | $47,116 | $54,967 | $101,500 | $0 | $240,000 | $861,583 | $172,317 | $1,033,900 |
| 3CC | $772,000 | $62,619 | $101,518 | $45,500 | $8,000 | $480,000 | $1,469,637 | $293,927 | $1,763,564 |
| 3CC1 | $600,000 | $60,617 | $78,900 | $59,500 | $42,000 | $332,000 | $1,173,017 | $234,603 | $1,407,620 |
| 3CC2 | $474,000 | $99,680 | $62,331 | $28,000 | $0 | $428,000 | $1,092,011 | $218,402 | $1,310,413 |
| 3CC2 | $530,000 | $99,680 | $69,695 | $31,500 | $18,000 | $264,000 | $1,012,875 | $202,575 | $1,215,450 |
| 3D | $1,424,000 | $109,880 | $187,256 | $320,250 | $16,000 | $292,000 | $2,349,386 | $469,877 | $2,819,263 |
| 3E | $1,292,000 | $110,417 | $169,898 | $259,000 | $14,000 | $356,000 | $2,201,315 | $440,263 | $2,641,578 |
| 3F | $542,000 | $50,035 | $71,273 | $140,000 | $18,000 | $192,000 | $1,013,308 | $202,662 | $1,215,970 |
| 3G1 | $870,000 | $74,931 | $114,405 | $133,000 | $170,000 | $128,000 | $1,490,336 | $298,067 | $1,788,403 |
| 3GG | $844,000 | $66,255 | $110,986 | $61,250 | $282,000 | $84,000 | $1,448,491 | $289,698 | $1,738,189 |
| 3H1 | $1,068,000 | $74,975 | $140,442 | $161,000 | $156,000 | $52,000 | $1,652,417 | $330,483 | $1,982,900 |
| 3II | $700,000 | $56,054 | $92,050 | $73,500 | $164,000 | $84,000 | $1,169,604 | $233,921 | $1,403,525 |
| 3II1 | $658,000 | $36,046 | $86,527 | $42,000 | $104,000 | $112,000 | $1,038,573 | $207,715 | $1,246,288 |
| 3II2 | $644,000 | $31,408 | $84,686 | $10,500 | $172,000 | $76,000 | $1,018,594 | $203,719 | $1,222,313 |
| 3J | $1,696,000 | $134,984 | $223,024 | $337,750 | $188,000 | $132,000 | $2,711,758 | $542,352 | $3,254,110 |
| 3K | $1,230,000 | $109,703 | $161,745 | $166,250 | $266,000 | $76,000 | $2,009,698 | $401,940 | $2,411,638 |
| 3L | $1,198,000 | $97,726 | $157,537 | $98,000 | $254,000 | $104,000 | $1,909,263 | $381,853 | $2,291,116 |
| 3M | $824,000 | $46,041 | $108,356 | $33,250 | $234,000 | $20,000 | $1,265,647 | $253,129 | $1,518,776 |
| 3M1 | $830,000 | $39,996 | $109,145 | $7,000 | $194,000 | $40,000 | $1,220,141 | $244,028 | $1,464,169 |
| 3O | $786,000 | $60,073 | $103,359 | $63,000 | $200,000 | $116,000 | $1,328,432 | $265,686 | $1,594,118 |
| 3O1 | $974,000 | $53,607 | $128,081 | $33,250 | $200,000 | $84,000 | $1,472,938 | $294,588 | $1,767,526 |
| 3P | $714,000 | $52,468 | $93,891 | $70,000 | $190,000 | $20,000 | $1,140,359 | $228,072 | $1,368,431 |
| 3P1 | $808,000 | $64,353 | $106,252 | $57,750 | $118,000 | $260,000 | $1,414,355 | $282,871 | $1,697,226 |
| 3P2 | $1,010,000 | $62,650 | $132,815 | $68,250 | $208,000 | $64,000 | $1,545,715 | $309,143 | $1,854,858 |
| 3Q | $794,000 | $52,699 | $104,411 | $59,500 | $116,000 | $172,000 | $1,298,610 | $259,722 | $1,558,332 |
| 3Q1 | $1,004,000 | $69,366 | $132,026 | $115,500 | $168,000 | $192,000 | $1,680,892 | $336,178 | $2,017,070 |
| 3R | $698,000 | $55,550 | $91,787 | $24,500 | $214,000 | $108,000 | $1,191,837 | $238,367 | $1,430,204 |
| 3R2 | $682,000 | $83,095 | $89,683 | $182,000 | $92,000 | $188,000 | $1,316,778 | $263,356 | $1,580,134 |
| 3S | $440,000 | $40,569 | $57,860 | $50,750 | $132,000 | $104,000 | $825,179 | $165,036 | $990,215 |
| 3S1 | $652,000 | $69,228 | $85,738 | $129,500 | $138,000 | $120,000 | $1,194,466 | $238,893 | $1,433,359 |
| 3T | $374,000 | $25,128 | $49,181 | $68,250 | $124,000 | $16,000 | $656,559 | $131,312 | $787,871 |
| 3T1 | $420,000 | $49,053 | $55,230 | $122,500 | $94,000 | $40,000 | $780,783 | $156,157 | $936,940 |
| 3T2 | $412,000 | $34,966 | $54,178 | $59,500 | $116,000 | $40,000 | $716,644 | $143,329 | $859,973 |
| 3U | $576,000 | $83,700 | $75,744 | $175,000 | $86,000 | $188,000 | $1,184,444 | $236,889 | $1,421,333 |
| 3U1 | $658,000 | $58,664 | $86,527 | $126,000 | $104,000 | $152,000 | $1,185,191 | $237,038 | $1,422,229 |
| 3V | $962,000 | $47,832 | $126,503 | $21,000 | $222,000 | $56,000 | $1,435,335 | $287,067 | $1,722,402 |
| 3V1 | $960,000 | $52,087 | $126,240 | $66,500 | $152,000 | $108,000 | $1,464,827 | $292,965 | $1,757,792 |
| 3W | $790,000 | $65,719 | $103,885 | $131,250 | $130,000 | $128,000 | $1,348,854 | $269,771 | $1,618,625 |
| 3W1 | $610,000 | $47,964 | $80,215 | $49,000 | $172,000 | $92,000 | $1,051,179 | $210,236 | $1,261,415 |
| 3X | $630,000 | $49,149 | $82,845 | $98,000 | $106,000 | $88,000 | $1,053,994 | $210,799 | $1,264,793 |
| 3X1 | $758,000 | $61,009 | $99,677 | $36,750 | $242,000 | $104,000 | $1,301,436 | $260,287 | $1,561,723 |
| 3X2 | $642,000 | $50,210 | $84,423 | $31,500 | $194,000 | $116,000 | $1,118,133 | $223,627 | $1,341,760 |
| 3Y | $630,000 | $42,433 | $82,845 | $66,500 | $90,000 | $168,000 | $1,079,778 | $215,956 | $1,295,734 |
| 3Y1 | $634,000 | $33,828 | $83,371 | $19,250 | $114,000 | $76,000 | $960,449 | $192,090 | $1,152,539 |
| 3Y2 | $462,000 | $34,427 | $60,753 | $14,000 | $148,000 | $68,000 | $787,180 | $157,436 | $944,616 |
| 3Y3 | $502,000 | $50,734 | $66,013 | $43,750 | $210,000 | $72,000 | $944,497 | $188,899 | $1,133,396 |
| 3Z | $918,000 | $67,466 | $120,717 | $47,250 | $242,000 | $120,000 | $1,515,433 | $303,087 | $1,818,520 |

# APPENDIX 6

# DISTRICT 4

Appendix 6
Updated 2009 Master Plan with Applied Current Algorithms

| BLOCK_ID1 | CIP_ID | Council District | INTERSECTIONS | Backlot_Poles | ALLEY_Poles | OH_Poles | XFMR_Count | Meters | P_Length | ServiceDrop | SUB_Count |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4A | UU523 | 9 | 39 | 31 | 31 | 160 | 24 | 602 | 18,352.12 | 311 | 0 |
| 4A1 | UU211 | 9 | 25 | 26 | 40 | 132 | 28 | 650 | 14,758.34 | 368 | 0 |
| 4B | UU888 | 9 | 36 | 31 | 65 | 163 | 37 | 707 | 17,790.84 | 437 | 0 |
| 4B1 | UU422 | 9 | 33 | 31 | 49 | 168 | 37 | 818 | 19,287.61 | 449 | 0 |
| 4BB | UU425 | 4 | 23 | 4 | 1 | 151 | 36 | 489 | 16,962.61 | 397 | 0 |
| 4BB1 | UU426 | 4 | 19 | 39 | 0 | 115 | 25 | 409 | 16,178.04 | 346 | 0 |
| 4C | UU180 | 9 | 21 | 75 | 46 | 199 | 35 | 809 | 21,251.68 | 437 | 0 |
| 4CC | UU895 | 4 | 24 | 69 | 7 | 136 | 33 | 533 | 17,369.85 | 325 | 0 |
| 4D | UU891 | 4 | 17 | 17 | 0 | 127 | 27 | 426 | 15,596.59 | 381 | 0 |
| 4DD | UU896 | 4 | 22 | 51 | 4 | 138 | 32 | 505 | 17,502.48 | 388 | 0 |
| 4DD1 | UU897 | 4 | 23 | 30 | 0 | 154 | 33 | 439 | 18,899.30 | 394 | 0 |
| 4E | UU427 | 4 | 18 | 32 | 1 | 114 | 26 | 293 | 14,946.24 | 249 | 0 |
| 4E1 | UU428 | 4 | 14 | 63 | 0 | 121 | 20 | 311 | 15,227.02 | 291 | 0 |
| 4E2 | UU154 | 4 | 17 | 58 | 6 | 106 | 19 | 293 | 12,729.63 | 233 | 0 |
| 4EE | UU237 | 4 | 23 | 12 | 0 | 141 | 30 | 380 | 17,842.97 | 380 | 0 |
| 4F | UU898 | 4 | 31 | 26 | 7 | 171 | 37 | 696 | 20,780.02 | 346 | 0 |
| 4F1 | UU153 | 4 | 13 | 46 | 3 | 117 | 23 | 280 | 13,239.77 | 262 | 0 |
| 4FF | UU238 | 4 | 24 | 9 | 0 | 130 | 30 | 433 | 17,004.90 | 407 | 0 |
| 4H | UU890 | 9 | 36 | 24 | 30 | 114 | 22 | 431 | 15,183.98 | 324 | 0 |
| 4H1 | UU860 | 9 | 8 | 47 | 18 | 112 | 27 | 549 | 13,690.26 | 313 | 0 |
| 4H2 | UU903 | 4 | 17 | 66 | 0 | 159 | 31 | 469 | 20,719.99 | 309 | 0 |
| 4I | UU983 | 4 | 9 | 33 | 0 | 110 | 25 | 260 | 13,140.90 | 207 | 0 |
| 4I2 | UU357 | 4 | 19 | 23 | 24 | 112 | 23 | 501 | 13,292.38 | 244 | 0 |
| 4J | UU261 | 9 | 23 | 32 | 0 | 159 | 38 | 507 | 20,089.30 | 434 | 0 |
| 4J2 | UU892 | 4 | 24 | 59 | 0 | 157 | 30 | 400 | 17,453.70 | 351 | 0 |
| 4K | UU262 | 4 | 17 | 29 | 0 | 121 | 27 | 329 | 14,358.14 | 295 | 0 |
| 4L | UU294 | 4 | 17 | 4 | 48 | 78 | 25 | 252 | 9,759.65 | 235 | 0 |
| 4L1 | UU893 | 4 | 12 | 59 | 0 | 118 | 23 | 326 | 14,326.62 | 320 | 0 |
| 4M | UU258 | 4 | 16 | 88 | 3 | 191 | 46 | 628 | 23,529.31 | 526 | 0 |
| 4M1 | UU295 | 4 | 16 | 73 | 0 | 125 | 23 | 314 | 14,753.07 | 300 | 0 |
| 4O | UU894 | 4 | 16 | 36 | 0 | 146 | 40 | 372 | 18,594.71 | 331 | 0 |
| 4P | UU424 | 4 | 11 | 43 | 0 | 138 | 36 | 284 | 16,958.22 | 238 | 0 |
| 4Q | UU356 | 4 | 11 | 10 | 0 | 112 | 29 | 397 | 11,832.13 | 307 | 0 |
| 4R | UU355 | 4 | 14 | 14 | 0 | 115 | 25 | 375 | 13,632.39 | 306 | 0 |
| 4R1 | UU899 | 4 | 17 | 26 | 0 | 140 | 31 | 610 | 15,633.34 | 348 | 0 |
| 4S | UU862 | 4 | 17 | 25 | 0 | 173 | 36 | 520 | 20,768.27 | 295 | 0 |
| 4S1 | UU863 | 4 | 11 | 42 | 0 | 161 | 45 | 391 | 21,320.84 | 290 | 0 |
| 4T | UU181 | 4 | 15 | 36 | 0 | 177 | 34 | 393 | 19,516.18 | 321 | 0 |
| 4T1 | UU179 | 4 | 32 | 28 | 10 | 172 | 41 | 386 | 22,300.63 | 319 | 0 |
| 4U | UU354 | 4 | 14 | 24 | 0 | 112 | 25 | 344 | 15,991.62 | 344 | 1 |
| 4V | UU791 | 4 | 19 | 9 | 0 | 104 | 20 | 310 | 12,898.54 | 285 | 0 |
| 4W | UU182 | 4 | 15 | 23 | 0 | 106 | 20 | 260 | 12,717.07 | 260 | 0 |
| 4X | UU292 | 4 | 8 | 3 | 0 | 59 | 16 | 297 | 7,123.77 | 173 | 0 |
| 4X1 | UU293 | 4 | 4 | 2 | 0 | 55 | 11 | 181 | 6,376.60 | 156 | 0 |
| 4Y2 | UU790 | 4 | 14 | 9 | 0 | 97 | 22 | 394 | 12,533.81 | 341 | 0 |

Appendix 6
Updated 2009 Master Plan with Applied Current Algorithms

| BLOCK_ID1 | TOTAL_CONST_SUM | CHANGE_ORDERS_COST | PRGM_MGMT_COST | ENGNR_SRVCS_COST | BLOCK_COST |
|---|---|---|---|---|---|
| 4A | $9,132,088 | $913,209 | $730,567 | $1,095,851 | $11,871,715 |
| 4A1 | $8,208,223 | $820,822 | $656,658 | $984,987 | $10,670,690 |
| 4B | $9,918,324 | $991,832 | $793,466 | $1,190,199 | $12,893,821 |
| 4B1 | $10,496,902 | $1,049,690 | $839,752 | $1,259,628 | $13,645,972 |
| 4BB | $9,251,410 | $925,141 | $740,113 | $1,110,169 | $12,026,833 |
| 4BB1 | $8,482,699 | $848,270 | $678,616 | $1,017,924 | $11,027,509 |
| 4C | $11,220,776 | $1,122,078 | $897,662 | $1,346,493 | $14,587,009 |
| 4CC | $9,079,859 | $907,986 | $726,389 | $1,089,583 | $11,803,817 |
| 4D | $8,480,959 | $848,096 | $678,477 | $1,017,715 | $11,025,247 |
| 4DD | $9,401,150 | $940,115 | $752,092 | $1,128,138 | $12,221,495 |
| 4DD1 | $9,908,709 | $990,871 | $792,697 | $1,189,045 | $12,881,322 |
| 4E | $7,526,160 | $752,616 | $602,093 | $903,139 | $9,784,008 |
| 4E1 | $7,817,969 | $781,797 | $625,438 | $938,156 | $10,163,360 |
| 4E2 | $6,587,576 | $658,758 | $527,006 | $790,509 | $8,563,849 |
| 4EE | $9,331,524 | $933,152 | $746,522 | $1,119,783 | $12,130,981 |
| 4F | $10,415,463 | $1,041,546 | $833,237 | $1,249,856 | $13,540,102 |
| 4F1 | $6,987,566 | $698,757 | $559,005 | $838,508 | $9,083,836 |
| 4FF | $9,165,037 | $916,504 | $733,203 | $1,099,804 | $11,914,548 |
| 4H | $7,956,682 | $795,668 | $636,535 | $954,802 | $10,343,687 |
| 4H1 | $7,496,586 | $749,659 | $599,727 | $899,590 | $9,745,562 |
| 4H2 | $10,118,390 | $1,011,839 | $809,471 | $1,214,207 | $13,153,907 |
| 4I | $6,635,391 | $663,539 | $530,831 | $796,247 | $8,626,008 |
| 4I2 | $6,853,749 | $685,375 | $548,300 | $822,450 | $8,909,874 |
| 4J | $10,656,529 | $1,065,653 | $852,522 | $1,278,783 | $13,853,487 |
| 4J2 | $9,201,784 | $920,178 | $736,143 | $1,104,214 | $11,962,319 |
| 4K | $7,604,133 | $760,413 | $608,331 | $912,496 | $9,885,373 |
| 4L | $5,518,125 | $551,812 | $441,450 | $662,175 | $7,173,562 |
| 4L1 | $7,712,437 | $771,244 | $616,995 | $925,492 | $10,026,168 |
| 4M | $12,712,732 | $1,271,273 | $1,017,019 | $1,525,528 | $16,526,552 |
| 4M1 | $7,807,662 | $780,766 | $624,613 | $936,919 | $10,149,960 |
| 4O | $9,591,466 | $959,147 | $767,317 | $1,150,976 | $12,468,906 |
| 4P | $8,429,686 | $842,969 | $674,375 | $1,011,562 | $10,958,592 |
| 4Q | $6,769,522 | $676,952 | $541,562 | $812,343 | $8,800,379 |
| 4R | $7,316,871 | $731,687 | $585,350 | $878,025 | $9,511,933 |
| 4R1 | $8,449,945 | $844,994 | $675,996 | $1,013,993 | $10,984,928 |
| 4S | $10,082,242 | $1,008,224 | $806,579 | $1,209,869 | $13,106,914 |
| 4S1 | $10,440,762 | $1,044,076 | $835,261 | $1,252,891 | $13,572,990 |
| 4T | $9,788,651 | $978,865 | $783,092 | $1,174,638 | $12,725,246 |
| 4T1 | $10,876,685 | $1,087,668 | $870,135 | $1,305,202 | $14,139,690 |
| 4U | $8,471,487 | $847,149 | $677,719 | $1,016,578 | $11,012,933 |
| 4V | $6,817,540 | $681,754 | $545,403 | $818,105 | $8,862,802 |
| 4W | $6,652,383 | $665,238 | $532,191 | $798,286 | $8,648,098 |
| 4X | $4,015,825 | $401,582 | $321,266 | $481,899 | $5,220,572 |
| 4X1 | $3,542,617 | $354,262 | $283,409 | $425,114 | $4,605,402 |
| 4Y2 | $7,020,105 | $702,010 | $561,608 | $842,413 | $9,126,136 |

Appendix 6
CIVIL WORK COSTS

| BLOCK_ID1 | Pub_Notice_Cost | Joint_Trench_Cost | Non_Joint_Trench_Cost | Cust_Trench_Cost | Road_Resurf_Cost | Streetlights_Cost | Curb_Ramp_Cost | Permits_Inspections_Cost | Tree_Cost | SWPPP_Cost | Traff_Control_Cost | Civil_Subtotal_Cost | CIVIL_OAP | CIVIL_SUM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4A | $8,520 | $2,110,493 | $351,714 | $466,500 | $633,148 | $734,085 | $58,500 | $12,440 | $6,842 | $263,812 | $45,000 | $4,691,054 | $938,211 | $5,629,265 |
| 4A1 | $9,000 | $1,697,209 | $282,840 | $552,000 | $509,163 | $590,334 | $37,500 | $14,720 | $8,096 | $212,151 | $45,000 | $3,958,013 | $791,603 | $4,749,616 |
| 4B | $9,570 | $2,045,947 | $340,957 | $655,500 | $613,784 | $711,634 | $54,000 | $17,480 | $9,614 | $255,743 | $45,000 | $4,759,229 | $951,846 | $5,711,075 |
| 4B1 | $10,680 | $2,218,075 | $369,642 | $673,500 | $665,422 | $771,504 | $49,500 | $17,960 | $9,878 | $277,259 | $45,000 | $5,108,420 | $1,021,684 | $6,130,104 |
| 4BB | $7,390 | $1,950,700 | $325,084 | $595,500 | $585,210 | $678,504 | $34,500 | $15,880 | $8,734 | $243,838 | $45,000 | $4,490,340 | $898,068 | $5,388,408 |
| 4BB1 | $6,590 | $1,860,474 | $310,048 | $519,000 | $558,142 | $647,121 | $28,500 | $13,840 | $7,612 | $232,559 | $45,000 | $4,228,886 | $845,777 | $5,074,663 |
| 4C | $10,590 | $2,443,943 | $407,283 | $655,500 | $733,183 | $850,067 | $31,500 | $17,480 | $9,614 | $305,493 | $45,000 | $5,509,653 | $1,101,931 | $6,611,584 |
| 4CC | $7,830 | $1,997,533 | $332,889 | $487,500 | $599,260 | $694,794 | $36,000 | $13,000 | $7,150 | $249,692 | $45,000 | $4,470,648 | $894,130 | $5,364,778 |
| 4D | $6,760 | $1,793,608 | $298,905 | $571,500 | $538,082 | $623,863 | $25,500 | $15,240 | $8,382 | $224,201 | $45,000 | $4,151,041 | $830,208 | $4,981,249 |
| 4DD | $7,550 | $2,012,785 | $335,431 | $582,000 | $603,835 | $700,099 | $33,000 | $15,520 | $8,536 | $251,598 | $45,000 | $4,595,354 | $919,071 | $5,514,425 |
| 4DD1 | $6,890 | $2,173,420 | $362,200 | $591,000 | $652,026 | $755,972 | $34,500 | $15,760 | $8,668 | $271,677 | $45,000 | $4,917,113 | $983,423 | $5,900,536 |
| 4E | $5,430 | $1,718,817 | $286,441 | $373,500 | $515,645 | $597,849 | $27,000 | $9,960 | $5,478 | $214,852 | $45,000 | $3,799,972 | $759,994 | $4,559,966 |
| 4E1 | $5,610 | $1,751,107 | $291,822 | $436,500 | $525,332 | $609,081 | $21,000 | $11,640 | $6,402 | $218,888 | $45,000 | $3,922,382 | $784,476 | $4,706,858 |
| 4E2 | $5,430 | $1,463,908 | $243,960 | $349,500 | $439,172 | $509,185 | $25,500 | $9,320 | $5,126 | $182,988 | $45,000 | $3,279,089 | $655,818 | $3,934,907 |
| 4EE | $6,300 | $2,051,941 | $341,956 | $570,000 | $615,582 | $713,719 | $34,500 | $15,200 | $8,360 | $256,493 | $45,000 | $4,659,051 | $931,810 | $5,590,861 |
| 4F | $9,460 | $2,389,703 | $398,244 | $519,000 | $716,911 | $831,201 | $46,500 | $13,840 | $7,612 | $298,713 | $45,000 | $5,276,184 | $1,055,237 | $6,331,421 |
| 4F1 | $5,300 | $1,522,574 | $253,737 | $393,000 | $456,772 | $529,591 | $19,500 | $10,480 | $5,764 | $190,322 | $45,000 | $3,432,040 | $686,408 | $4,118,448 |
| 4FF | $6,830 | $1,955,564 | $325,895 | $610,500 | $586,669 | $680,196 | $36,000 | $16,280 | $8,954 | $244,445 | $45,000 | $4,516,333 | $903,267 | $5,419,600 |
| 4H | $6,810 | $1,746,158 | $290,997 | $486,000 | $523,847 | $607,359 | $54,000 | $12,960 | $7,128 | $218,270 | $45,000 | $3,998,529 | $799,706 | $4,798,235 |
| 4H1 | $7,990 | $1,574,380 | $262,370 | $469,500 | $472,314 | $547,610 | $12,000 | $12,520 | $6,886 | $196,797 | $45,000 | $3,607,367 | $721,473 | $4,328,840 |
| 4H2 | $7,190 | $2,382,799 | $397,093 | $463,500 | $714,840 | $828,800 | $25,500 | $12,360 | $6,798 | $297,850 | $45,000 | $5,181,730 | $1,036,346 | $6,218,076 |
| 4I | $5,100 | $1,511,204 | $251,842 | $310,500 | $453,361 | $525,636 | $13,500 | $8,280 | $4,554 | $188,900 | $45,000 | $3,317,877 | $663,575 | $3,981,452 |
| 4I2 | $7,510 | $1,528,624 | $254,745 | $366,000 | $458,587 | $531,695 | $28,500 | $9,760 | $5,368 | $191,078 | $45,000 | $3,426,867 | $685,373 | $4,112,240 |
| 4J | $7,570 | $2,310,269 | $385,006 | $651,000 | $693,081 | $803,572 | $34,500 | $17,360 | $9,548 | $288,784 | $45,000 | $5,245,690 | $1,049,138 | $6,294,828 |
| 4J2 | $6,500 | $2,007,175 | $334,496 | $526,500 | $602,153 | $698,148 | $36,000 | $14,040 | $7,722 | $250,897 | $45,000 | $4,528,631 | $905,726 | $5,434,357 |
| 4K | $5,790 | $1,651,186 | $275,170 | $442,500 | $495,356 | $574,326 | $25,500 | $11,800 | $6,490 | $206,398 | $45,000 | $3,739,516 | $747,903 | $4,487,419 |
| 4L | $5,020 | $1,122,359 | $187,041 | $352,500 | $336,708 | $390,386 | $25,500 | $9,400 | $5,170 | $140,295 | $45,000 | $2,619,379 | $523,876 | $3,143,255 |
| 4L1 | $5,760 | $1,647,562 | $274,566 | $480,000 | $494,268 | $573,065 | $18,000 | $12,800 | $7,040 | $205,945 | $45,000 | $3,764,006 | $752,801 | $4,516,807 |
| 4M | $8,780 | $2,705,871 | $450,933 | $789,000 | $811,761 | $941,172 | $24,000 | $21,040 | $11,572 | $338,234 | $45,000 | $6,147,363 | $1,229,473 | $7,376,836 |
| 4M1 | $5,640 | $1,696,603 | $282,739 | $450,000 | $508,981 | $590,123 | $24,000 | $12,000 | $6,600 | $212,075 | $45,000 | $3,833,761 | $766,752 | $4,600,513 |
| 4O | $6,220 | $2,138,391 | $356,363 | $496,500 | $641,517 | $743,788 | $24,000 | $13,240 | $7,282 | $267,299 | $45,000 | $4,739,600 | $947,920 | $5,687,520 |
| 4P | $5,340 | $1,950,195 | $325,000 | $357,000 | $585,058 | $678,329 | $16,500 | $9,520 | $5,236 | $243,774 | $45,000 | $4,220,952 | $844,190 | $5,065,142 |
| 4Q | $6,470 | $1,360,695 | $226,760 | $460,500 | $408,209 | $473,285 | $16,500 | $12,280 | $6,754 | $170,087 | $45,000 | $3,186,540 | $637,308 | $3,823,848 |
| 4R | $6,250 | $1,567,725 | $261,261 | $459,000 | $470,318 | $545,296 | $21,000 | $12,240 | $6,732 | $195,966 | $45,000 | $3,590,788 | $718,158 | $4,308,946 |
| 4R1 | $8,600 | $1,797,834 | $299,609 | $522,000 | $539,350 | $625,334 | $25,500 | $13,920 | $7,656 | $224,729 | $45,000 | $4,109,532 | $821,906 | $4,931,438 |
| 4S | $7,700 | $2,388,351 | $398,019 | $442,500 | $716,505 | $830,731 | $25,500 | $11,800 | $6,490 | $298,544 | $45,000 | $5,171,140 | $1,034,228 | $6,205,368 |
| 4S1 | $6,410 | $2,451,897 | $408,609 | $435,000 | $735,569 | $852,834 | $16,500 | $11,600 | $6,380 | $306,487 | $45,000 | $5,276,286 | $1,055,257 | $6,331,543 |
| 4T | $6,430 | $2,244,361 | $374,023 | $481,500 | $673,308 | $780,647 | $22,500 | $12,840 | $7,062 | $280,545 | $45,000 | $4,928,216 | $985,643 | $5,913,859 |
| 4T1 | $6,360 | $2,564,572 | $427,386 | $478,500 | $769,372 | $892,025 | $48,000 | $12,760 | $7,018 | $320,572 | $45,000 | $5,571,565 | $1,114,313 | $6,685,878 |
| 4U | $5,940 | $1,839,036 | $306,475 | $516,000 | $551,711 | $639,665 | $21,000 | $13,760 | $7,568 | $229,880 | $45,000 | $4,176,035 | $835,207 | $5,011,242 |
| 4V | $5,600 | $1,483,332 | $247,197 | $427,500 | $445,000 | $515,942 | $28,500 | $11,400 | $6,270 | $185,417 | $45,000 | $3,401,158 | $680,232 | $4,081,390 |
| 4W | $5,100 | $1,462,463 | $243,719 | $390,000 | $438,739 | $508,683 | $22,500 | $10,400 | $5,720 | $182,808 | $45,000 | $3,315,132 | $663,026 | $3,978,158 |
| 4X | $5,470 | $819,234 | $136,525 | $259,500 | $245,770 | $284,951 | $12,000 | $6,920 | $3,806 | $102,404 | $45,000 | $1,921,580 | $384,316 | $2,305,896 |
| 4X1 | $4,310 | $733,309 | $122,206 | $234,000 | $219,993 | $255,064 | $6,000 | $6,240 | $3,432 | $91,664 | $45,000 | $1,721,218 | $344,244 | $2,065,462 |
| 4Y2 | $6,440 | $1,441,389 | $240,207 | $511,500 | $432,417 | $501,353 | $21,000 | $13,640 | $7,502 | $180,174 | $45,000 | $3,400,622 | $680,124 | $4,080,746 |

Appendix 6
SPECIAL ELECTTRICAL WORK COSTS

| BLOCK_ID1 | XFMR_COST | PRIM_BACKBONE_CABLING_COST | SEC_BACKBONE_CABLING_COST | CUST_CABLE_COST | CUT_OVER_COST | BOUND_CIRC_FEEDER_COST | SUBSTATION_COST | SPCL_E_Subtotal | SPCL_E_OAP | SPECIAL_ELEC_SERV_TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| 4A | $420,000 | $227,933 | $405,215 | $509,846 | $155,500 | $75,000 | $0 | $1,793,494 | $358,699 | $2,152,193 |
| 4A1 | $490,000 | $183,299 | $325,864 | $440,071 | $184,000 | $75,000 | $0 | $1,698,234 | $339,647 | $2,037,881 |
| 4B | $647,500 | $220,962 | $392,822 | $528,808 | $218,500 | $75,000 | $0 | $2,083,592 | $416,718 | $2,500,310 |
| 4B1 | $647,500 | $239,552 | $425,870 | $566,982 | $224,500 | $75,000 | $0 | $2,179,404 | $435,881 | $2,615,285 |
| 4BB | $630,000 | $210,676 | $374,534 | $499,178 | $198,500 | $75,000 | $0 | $1,987,888 | $397,578 | $2,385,466 |
| 4BB1 | $437,500 | $200,931 | $357,211 | $467,767 | $173,000 | $75,000 | $0 | $1,711,409 | $342,282 | $2,053,691 |
| 4C | $612,500 | $263,946 | $469,237 | $609,999 | $218,500 | $75,000 | $0 | $2,249,182 | $449,836 | $2,699,018 |
| 4CC | $577,500 | $215,734 | $383,526 | $490,372 | $162,500 | $75,000 | $0 | $1,904,632 | $380,926 | $2,285,558 |
| 4D | $472,500 | $193,710 | $344,373 | $463,051 | $190,500 | $75,000 | $0 | $1,739,134 | $347,827 | $2,086,961 |
| 4DD | $560,000 | $217,381 | $386,455 | $509,548 | $194,000 | $75,000 | $0 | $1,942,384 | $388,477 | $2,330,861 |
| 4DD1 | $577,500 | $234,729 | $417,297 | $543,848 | $197,000 | $75,000 | $0 | $2,045,374 | $409,075 | $2,454,449 |
| 4E | $455,000 | $185,632 | $330,013 | $414,134 | $124,500 | $75,000 | $0 | $1,584,279 | $316,856 | $1,901,135 |
| 4E1 | $350,000 | $189,120 | $336,213 | $431,431 | $145,500 | $75,000 | $0 | $1,527,264 | $305,453 | $1,832,717 |
| 4E2 | $332,500 | $158,102 | $281,070 | $358,052 | $116,500 | $75,000 | $0 | $1,321,224 | $264,245 | $1,585,469 |
| 4EE | $525,000 | $221,610 | $393,973 | $515,496 | $190,000 | $75,000 | $0 | $1,921,079 | $384,216 | $2,305,295 |
| 4F | $647,500 | $258,088 | $458,823 | $575,729 | $173,000 | $75,000 | $0 | $2,188,140 | $437,628 | $2,625,768 |
| 4F1 | $402,500 | $164,438 | $292,334 | $377,415 | $131,000 | $75,000 | $0 | $1,442,687 | $288,537 | $1,731,224 |
| 4FF | $525,000 | $211,201 | $375,468 | $502,720 | $203,500 | $75,000 | $0 | $1,892,889 | $378,578 | $2,271,467 |
| 4H | $385,000 | $188,585 | $335,262 | $438,836 | $162,000 | $75,000 | $0 | $1,584,683 | $316,937 | $1,901,620 |
| 4H1 | $472,500 | $170,033 | $302,281 | $400,989 | $156,500 | $75,000 | $0 | $1,577,303 | $315,461 | $1,892,764 |
| 4H2 | $542,500 | $257,342 | $457,497 | $564,886 | $154,500 | $75,000 | $0 | $2,051,725 | $410,345 | $2,462,070 |
| 4I | $437,500 | $163,210 | $290,151 | $361,071 | $103,500 | $75,000 | $0 | $1,430,432 | $286,086 | $1,716,518 |
| 4I2 | $402,500 | $165,091 | $293,496 | $374,059 | $122,000 | $75,000 | $0 | $1,432,146 | $286,429 | $1,718,575 |
| 4J | $665,000 | $249,509 | $443,572 | $581,965 | $217,000 | $75,000 | $0 | $2,232,046 | $446,409 | $2,678,455 |
| 4J2 | $525,000 | $216,775 | $385,378 | $498,969 | $175,500 | $75,000 | $0 | $1,876,622 | $375,324 | $2,251,946 |
| 4K | $472,500 | $178,328 | $317,028 | $412,067 | $147,500 | $75,000 | $0 | $1,602,423 | $320,485 | $1,922,908 |
| 4L | $437,500 | $121,215 | $215,493 | $288,886 | $117,500 | $75,000 | $0 | $1,255,594 | $251,119 | $1,506,713 |
| 4L1 | $402,500 | $177,937 | $316,332 | $417,703 | $160,000 | $75,000 | $0 | $1,549,472 | $309,894 | $1,859,366 |
| 4M | $805,000 | $292,234 | $519,527 | $686,128 | $263,000 | $75,000 | $0 | $2,640,889 | $528,178 | $3,169,067 |
| 4M1 | $402,500 | $183,233 | $325,748 | $422,607 | $150,000 | $75,000 | $0 | $1,559,088 | $311,818 | $1,870,906 |
| 4O | $700,000 | $230,946 | $410,571 | $520,637 | $165,500 | $75,000 | $0 | $2,102,654 | $420,531 | $2,523,185 |
| 4P | $630,000 | $210,621 | $374,437 | $458,530 | $119,000 | $75,000 | $0 | $1,867,588 | $373,518 | $2,241,106 |
| 4Q | $507,500 | $146,955 | $261,253 | $355,867 | $153,500 | $75,000 | $0 | $1,500,075 | $300,015 | $1,800,090 |
| 4R | $437,500 | $169,314 | $301,003 | $397,846 | $153,000 | $75,000 | $0 | $1,533,663 | $306,733 | $1,840,396 |
| 4R1 | $542,500 | $194,166 | $345,184 | $455,498 | $174,000 | $75,000 | $0 | $1,786,348 | $357,270 | $2,143,618 |
| 4S | $630,000 | $257,942 | $458,563 | $562,449 | $147,500 | $75,000 | $0 | $2,131,454 | $426,291 | $2,557,745 |
| 4S1 | $787,500 | $264,805 | $470,764 | $574,137 | $145,000 | $75,000 | $0 | $2,317,206 | $463,441 | $2,780,647 |
| 4T | $595,000 | $242,391 | $430,917 | $539,705 | $160,500 | $75,000 | $0 | $2,043,513 | $408,703 | $2,452,216 |
| 4T1 | $717,500 | $276,974 | $492,398 | $604,518 | $159,500 | $75,000 | $0 | $2,325,890 | $465,178 | $2,791,068 |
| 4U | $437,500 | $198,616 | $353,095 | $462,883 | $172,000 | $75,000 | $100,000 | $1,799,094 | $359,819 | $2,158,913 |
| 4V | $350,000 | $160,200 | $284,800 | $375,275 | $142,500 | $75,000 | $0 | $1,387,775 | $277,555 | $1,665,330 |
| 4W | $350,000 | $157,946 | $280,793 | $364,642 | $130,000 | $75,000 | $0 | $1,358,381 | $271,676 | $1,630,057 |
| 4X | $280,000 | $88,477 | $157,293 | $211,239 | $86,500 | $75,000 | $0 | $898,509 | $179,702 | $1,078,211 |
| 4X1 | $192,500 | $79,197 | $140,795 | $189,375 | $78,000 | $75,000 | $0 | $754,867 | $150,973 | $905,840 |
| 4Y2 | $385,000 | $155,670 | $276,747 | $380,998 | $170,500 | $75,000 | $0 | $1,443,915 | $288,783 | $1,732,698 |

Appendix 6
BASIC ELECTRICAL WORK COSTS

| BLOCK_ID1 | PANEL_COST | OH_CABLE_RMV_COST | OH_CUST_CABLE_RMV_COST | STREET_POWER_POLE_RMVL_COST | ALLEY_POLE_COST | BACKLOT_POLE_COST | BASIC_E_Subtotal | BASIC_E_OAP | BASIC_ELEC_SERV_TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| 4A | $622,000 | $64,232 | $81,793 | $171,500 | $62,000 | $124,000 | $1,125,525 | $225,105 | $1,350,630 |
| 4A1 | $736,000 | $51,654 | $96,784 | $115,500 | $80,000 | $104,000 | $1,183,938 | $236,788 | $1,420,726 |
| 4B | $874,000 | $62,268 | $114,931 | $117,250 | $130,000 | $124,000 | $1,422,449 | $284,490 | $1,706,939 |
| 4B1 | $898,000 | $67,507 | $118,087 | $154,000 | $98,000 | $124,000 | $1,459,594 | $291,919 | $1,751,513 |
| 4BB | $794,000 | $59,369 | $104,411 | $255,500 | $2,000 | $16,000 | $1,231,280 | $246,256 | $1,477,536 |
| 4BB1 | $692,000 | $56,623 | $90,998 | $133,000 | $0 | $156,000 | $1,128,621 | $225,724 | $1,354,345 |
| 4C | $874,000 | $74,381 | $114,931 | $136,500 | $92,000 | $300,000 | $1,591,812 | $318,362 | $1,910,174 |
| 4CC | $650,000 | $60,794 | $85,475 | $105,000 | $14,000 | $276,000 | $1,191,269 | $238,254 | $1,429,523 |
| 4D | $762,000 | $54,588 | $100,203 | $192,500 | $0 | $68,000 | $1,177,291 | $235,458 | $1,412,749 |
| 4DD | $776,000 | $61,259 | $102,044 | $145,250 | $8,000 | $204,000 | $1,296,553 | $259,311 | $1,555,864 |
| 4DD1 | $788,000 | $66,148 | $103,622 | $217,000 | $0 | $120,000 | $1,294,770 | $258,954 | $1,553,724 |
| 4E | $498,000 | $52,312 | $65,487 | $141,750 | $2,000 | $128,000 | $887,549 | $177,510 | $1,065,059 |
| 4E1 | $582,000 | $53,295 | $76,533 | $101,500 | $0 | $252,000 | $1,065,328 | $213,066 | $1,278,394 |
| 4E2 | $466,000 | $44,554 | $61,279 | $73,500 | $12,000 | $232,000 | $889,333 | $177,867 | $1,067,200 |
| 4EE | $760,000 | $62,450 | $99,940 | $225,750 | $0 | $48,000 | $1,196,140 | $239,228 | $1,435,368 |
| 4F | $692,000 | $72,730 | $90,998 | $241,500 | $14,000 | $104,000 | $1,215,228 | $243,046 | $1,458,274 |
| 4F1 | $524,000 | $46,339 | $68,906 | $119,000 | $6,000 | $184,000 | $948,245 | $189,649 | $1,137,894 |
| 4FF | $814,000 | $59,517 | $107,041 | $211,750 | $0 | $36,000 | $1,228,308 | $245,662 | $1,473,970 |
| 4H | $648,000 | $53,144 | $85,212 | $105,000 | $60,000 | $96,000 | $1,047,356 | $209,471 | $1,256,827 |
| 4H1 | $626,000 | $47,916 | $82,319 | $82,250 | $36,000 | $188,000 | $1,062,485 | $212,497 | $1,274,982 |
| 4H2 | $618,000 | $72,520 | $81,267 | $162,750 | $0 | $264,000 | $1,198,537 | $239,707 | $1,438,244 |
| 4I | $414,000 | $45,993 | $54,441 | $134,750 | $0 | $132,000 | $781,184 | $156,237 | $937,421 |
| 4I2 | $488,000 | $46,523 | $64,172 | $113,750 | $48,000 | $92,000 | $852,445 | $170,489 | $1,022,934 |
| 4J | $868,000 | $70,313 | $114,142 | $222,250 | $0 | $128,000 | $1,402,705 | $280,541 | $1,683,246 |
| 4J2 | $702,000 | $61,088 | $92,313 | $171,500 | $0 | $236,000 | $1,262,901 | $252,580 | $1,515,481 |
| 4K | $590,000 | $50,253 | $77,585 | $161,000 | $0 | $116,000 | $994,838 | $198,968 | $1,193,806 |
| 4L | $470,000 | $34,159 | $61,805 | $45,500 | $96,000 | $16,000 | $723,464 | $144,693 | $868,157 |
| 4L1 | $640,000 | $50,143 | $84,160 | $103,250 | $0 | $236,000 | $1,113,553 | $222,711 | $1,336,264 |
| 4M | $1,052,000 | $82,353 | $138,338 | $175,000 | $6,000 | $352,000 | $1,805,691 | $361,138 | $2,166,829 |
| 4M1 | $600,000 | $51,636 | $78,900 | $91,000 | $0 | $292,000 | $1,113,536 | $222,707 | $1,336,243 |
| 4O | $662,000 | $65,081 | $87,053 | $192,500 | $0 | $144,000 | $1,150,634 | $230,127 | $1,380,761 |
| 4P | $476,000 | $59,354 | $62,594 | $166,250 | $0 | $172,000 | $936,198 | $187,240 | $1,123,438 |
| 4Q | $614,000 | $41,412 | $80,741 | $178,500 | $0 | $40,000 | $954,653 | $190,931 | $1,145,584 |
| 4R | $612,000 | $47,713 | $80,478 | $176,750 | $0 | $56,000 | $972,941 | $194,588 | $1,167,529 |
| 4R1 | $696,000 | $54,717 | $91,524 | $199,500 | $0 | $104,000 | $1,145,741 | $229,148 | $1,374,889 |
| 4S | $590,000 | $72,689 | $77,585 | $259,000 | $0 | $100,000 | $1,099,274 | $219,855 | $1,319,129 |
| 4S1 | $580,000 | $74,623 | $76,270 | $208,250 | $0 | $168,000 | $1,107,143 | $221,429 | $1,328,572 |
| 4T | $642,000 | $68,307 | $84,423 | $246,750 | $0 | $144,000 | $1,185,480 | $237,096 | $1,422,576 |
| 4T1 | $638,000 | $78,052 | $83,897 | $234,500 | $20,000 | $112,000 | $1,166,449 | $233,290 | $1,399,739 |
| 4U | $688,000 | $55,971 | $90,472 | $154,000 | $0 | $96,000 | $1,084,443 | $216,889 | $1,301,332 |
| 4V | $570,000 | $45,145 | $74,955 | $166,250 | $0 | $36,000 | $892,350 | $178,470 | $1,070,820 |
| 4W | $520,000 | $44,510 | $68,380 | $145,250 | $0 | $92,000 | $870,140 | $174,028 | $1,044,168 |
| 4X | $346,000 | $24,933 | $45,499 | $98,000 | $0 | $12,000 | $526,432 | $105,286 | $631,718 |
| 4X1 | $312,000 | $22,318 | $41,028 | $92,750 | $0 | $8,000 | $476,096 | $95,219 | $571,315 |
| 4Y2 | $682,000 | $43,868 | $89,683 | $154,000 | $0 | $36,000 | $1,005,551 | $201,110 | $1,206,661 |

# APPENDIX 6

# DISTRICT 6

Appendix 6
Updated 2009 Master Plan with Applied Current Algorithms

| BLOCK_ID1 | CIP_ID | Council District | INTERSECTIONS | Backlot_Poles | ALLEY_Poles | OH_Poles | XFMR_Count | Meters | P_Length | ServiceDrop | SUB_Count |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 INDUSTRIAL | UU516 | 6 | 18 | 164 | 0 | 231 | 66 | 168 | 37,264.59 | 168 | 2 |
| 6A | UU517 | 2 | 25 | 46 | 10 | 114 | 30 | 165 | 14,931.62 | 119 | 0 |
| 6A1 | UU128 | 2 | 35 | 5 | 4 | 148 | 40 | 514 | 16,547.27 | 357 | 0 |
| 6A2 | UU131 | 2 | 33 | 1 | 28 | 138 | 35 | 1163 | 15,723.10 | 246 | 1 |
| 6AA | UU877 | 7 | 26 | 11 | 4 | 150 | 46 | 884 | 21,426.17 | 464 | 0 |
| 6AA1 | UU250 | 7 | 25 | 11 | 3 | 158 | 40 | 644 | 18,057.89 | 453 | 0 |
| 6AA2 | UU247 | 7 | 24 | 13 | 2 | 161 | 44 | 650 | 20,842.60 | 474 | 0 |
| 6B | UU878 | 2 | 36 | 18 | 54 | 125 | 35 | 655 | 16,178.73 | 337 | 0 |
| 6B1 | UU879 | 2 | 29 | 48 | 15 | 127 | 36 | 464 | 16,513.18 | 301 | 0 |
| 6B2 | UU880 | 2 | 15 | 13 | 1 | 123 | 32 | 420 | 14,703.25 | 369 | 0 |
| 6B3 | UU515 | 2 | 37 | 29 | 9 | 128 | 33 | 411 | 16,061.18 | 345 | 0 |
| 6C | UU248 | 2 | 18 | 5 | 0 | 140 | 35 | 462 | 16,362.87 | 405 | 0 |
| 6C1 | UU249 | 2 | 11 | 16 | 5 | 102 | 31 | 365 | 13,557.59 | 288 | 0 |
| 6D | UU887 | 7 | 44 | 49 | 0 | 303 | 65 | 984 | 35,010.88 | 731 | 0 |
| 6E | UU886 | 7 | 44 | 27 | 0 | 284 | 66 | 1133 | 35,887.32 | 724 | 0 |
| 6F | UU884 | 7 | 46 | 18 | 3 | 259 | 55 | 822 | 27,491.43 | 599 | 0 |
| 6F1 | UU885 | 7 | 61 | 19 | 6 | 290 | 62 | 1801 | 34,122.90 | 626 | 0 |
| 6G | UU246 | 2 | 25 | 39 | 24 | 152 | 37 | 745 | 19,123.59 | 384 | 0 |
| 6G1 | UU985 | 2 | 15 | 6 | 0 | 86 | 22 | 539 | 10,768.11 | 235 | 0 |
| 6K | UU499 | 6 | 20 | 30 | 0 | 125 | 33 | 473 | 17,710.35 | 427 | 0 |
| 6K2 | UU858 | 6 | 19 | 13 | 14 | 113 | 27 | 571 | 13,653.26 | 269 | 0 |
| 6L | UU243 | 6 | 21 | 50 | 0 | 164 | 32 | 436 | 18,375.48 | 423 | 0 |
| 6L1 | UU109 | 6 | 26 | 32 | 24 | 140 | 34 | 573 | 17,315.93 | 303 | 0 |
| 6M | UU537 | 2 | 25 | 66 | 21 | 164 | 34 | 613 | 20,025.29 | 431 | 0 |
| 6M1 | UU245 | 2 | 22 | 44 | 10 | 169 | 33 | 417 | 18,854.83 | 410 | 0 |
| 6M2 | UU127 | 2 | 17 | 50 | 5 | 158 | 37 | 1363 | 16,905.26 | 200 | 0 |
| 6N | UU522 | 6 | 24 | 10 | 0 | 147 | 39 | 608 | 20,200.41 | 542 | 0 |
| 6N1 | UU868 | 6 | 25 | 67 | 5 | 185 | 39 | 784 | 22,220.55 | 509 | 0 |
| 6N2 | UU111 | 6 | 25 | 28 | 2 | 143 | 41 | 665 | 19,201.52 | 493 | 0 |
| 6O | UU869 | 6 | 24 | 12 | 0 | 178 | 42 | 615 | 22,206.77 | 530 | 0 |
| 6O1 | UU870 | 6 | 27 | 23 | 0 | 156 | 36 | 565 | 20,116.81 | 470 | 0 |
| 6O2 | UU873 | 6 | 23 | 16 | 0 | 184 | 36 | 590 | 21,859.29 | 487 | 0 |
| 6P | UU129 | 6 | 22 | 7 | 0 | 151 | 44 | 583 | 19,105.16 | 574 | 0 |
| 6P1 | UU130 | 6 | 22 | 15 | 0 | 140 | 35 | 564 | 19,547.09 | 530 | 0 |
| 6Q | UU872 | 6 | 21 | 14 | 0 | 139 | 40 | 548 | 17,893.51 | 499 | 0 |
| 6Q1 | UU518 | 6 | 23 | 25 | 1 | 144 | 41 | 601 | 20,161.48 | 515 | 0 |
| 6R | UU871 | 6 | 27 | 8 | 2 | 144 | 41 | 630 | 20,830.34 | 522 | 1 |
| 6R1 | UU519 | 6 | 18 | 10 | 7 | 123 | 45 | 661 | 18,498.46 | 523 | 0 |
| 6S | UU244 | 6 | 23 | 73 | 0 | 140 | 30 | 475 | 17,171.24 | 426 | 0 |
| 6S1 | UU400 | 6 | 24 | 50 | 0 | 140 | 32 | 486 | 18,393.13 | 445 | 0 |
| 6T | UU401 | 6 | 21 | 10 | 1 | 150 | 37 | 583 | 20,160.38 | 517 | 0 |
| 6T1 | UU112 | 6 | 23 | 11 | 6 | 154 | 42 | 1052 | 19,736.85 | 467 | 0 |
| 6U | UU882 | 6 | 11 | 122 | 6 | 159 | 40 | 547 | 18,884.14 | 499 | 0 |
| 6V | UU881 | 6 | 26 | 32 | 0 | 192 | 38 | 584 | 21,517.85 | 508 | 0 |
| 6V1 | UU883 | 7 | 40 | 82 | 4 | 223 | 51 | 1026 | 26,252.34 | 409 | 0 |
| 6W | UU177 | 7 | 41 | 62 | 7 | 228 | 64 | 1535 | 33,863.38 | 331 | 0 |
| 6X | UU814 | 7 | 28 | 9 | 1 | 159 | 39 | 508 | 18,855.26 | 465 | 0 |
| 6X1 | UU178 | 7 | 20 | 11 | 2 | 93 | 19 | 296 | 11,680.06 | 270 | 0 |
| 6Y | UU816 | 7 | 17 | 28 | 9 | 94 | 22 | 438 | 12,484.51 | 283 | 0 |
| 6Y1 | UU815 | 7 | 48 | 45 | 26 | 182 | 38 | 539 | 23,137.98 | 447 | 0 |

Appendix 6
Updated 2009 Master Plan with Applied Current Algorithms

| BLOCK_ID1 | TOTAL_CONST_SUM | CHANGE_ORDERS_COST | PRGM_MGMT_COST | ENGNR_SRVCS_COST | BLOCK_COST |
|---|---|---|---|---|---|
| 6 INDUSTRIAL | $16,380,760 | $1,638,076 | $1,310,461 | $1,965,691 | $21,294,988 |
| 6A | $6,942,256 | $694,226 | $555,380 | $833,071 | $9,024,933 |
| 6A1 | $8,992,973 | $899,297 | $719,438 | $1,079,157 | $11,690,865 |
| 6A2 | $8,096,135 | $809,614 | $647,691 | $971,536 | $10,524,976 |
| 6AA | $11,381,340 | $1,138,134 | $910,507 | $1,365,761 | $14,795,742 |
| 6AA1 | $10,056,774 | $1,005,677 | $804,542 | $1,206,813 | $13,073,806 |
| 6AA2 | $11,216,560 | $1,121,656 | $897,325 | $1,345,987 | $14,581,528 |
| 6B | $8,657,525 | $865,752 | $692,602 | $1,038,903 | $11,254,782 |
| 6B1 | $8,653,460 | $865,346 | $692,277 | $1,038,415 | $11,249,498 |
| 6B2 | $8,192,448 | $819,245 | $655,396 | $983,094 | $10,650,183 |
| 6B3 | $8,640,736 | $864,074 | $691,259 | $1,036,888 | $11,232,957 |
| 6C | $9,039,602 | $903,960 | $723,168 | $1,084,752 | $11,751,482 |
| 6C1 | $7,292,485 | $729,248 | $583,399 | $875,098 | $9,480,230 |
| 6D | $18,341,886 | $1,834,189 | $1,467,351 | $2,201,026 | $23,844,452 |
| 6E | $18,526,124 | $1,852,612 | $1,482,090 | $2,223,135 | $24,083,961 |
| 6F | $14,665,734 | $1,466,573 | $1,173,259 | $1,759,888 | $19,065,454 |
| 6F1 | $17,332,556 | $1,733,256 | $1,386,604 | $2,079,907 | $22,532,323 |
| 6G | $10,048,894 | $1,004,889 | $803,912 | $1,205,867 | $13,063,562 |
| 6G1 | $5,807,057 | $580,706 | $464,565 | $696,847 | $7,549,175 |
| 6K | $9,618,274 | $961,827 | $769,462 | $1,154,193 | $12,503,756 |
| 6K2 | $7,171,292 | $717,129 | $573,703 | $860,555 | $9,322,679 |
| 6L | $9,939,624 | $993,962 | $795,170 | $1,192,755 | $12,921,511 |
| 6L1 | $8,879,220 | $887,922 | $710,338 | $1,065,506 | $11,542,986 |
| 6M | $10,647,662 | $1,064,766 | $851,813 | $1,277,719 | $13,841,960 |
| 6M1 | $10,051,697 | $1,005,170 | $804,136 | $1,206,204 | $13,067,207 |
| 6M2 | $8,309,908 | $830,991 | $664,793 | $997,189 | $10,802,881 |
| 6N | $11,227,441 | $1,122,744 | $898,195 | $1,347,293 | $14,595,673 |
| 6N1 | $11,974,862 | $1,197,486 | $957,989 | $1,436,983 | $15,567,320 |
| 6N2 | $10,702,403 | $1,070,240 | $856,192 | $1,284,288 | $13,913,123 |
| 6O | $11,980,043 | $1,198,004 | $958,403 | $1,437,605 | $15,574,055 |
| 6O1 | $10,799,073 | $1,079,907 | $863,926 | $1,295,889 | $14,038,795 |
| 6O2 | $11,520,388 | $1,152,039 | $921,631 | $1,382,447 | $14,976,505 |
| 6P | $11,130,798 | $1,113,080 | $890,464 | $1,335,696 | $14,470,038 |
| 6P1 | $10,849,117 | $1,084,912 | $867,929 | $1,301,894 | $14,103,852 |
| 6Q | $10,212,421 | $1,021,242 | $816,994 | $1,225,491 | $13,276,148 |
| 6Q1 | $11,140,376 | $1,114,038 | $891,230 | $1,336,845 | $14,482,489 |
| 6R | $11,489,145 | $1,148,914 | $919,132 | $1,378,697 | $14,935,888 |
| 6R1 | $10,609,510 | $1,060,951 | $848,761 | $1,273,141 | $13,792,363 |
| 6S | $9,518,754 | $951,875 | $761,500 | $1,142,250 | $12,374,379 |
| 6S1 | $10,022,161 | $1,002,216 | $801,773 | $1,202,659 | $13,028,809 |
| 6T | $11,035,273 | $1,103,527 | $882,822 | $1,324,233 | $14,345,855 |
| 6T1 | $10,742,710 | $1,074,271 | $859,417 | $1,289,125 | $13,965,523 |
| 6U | $10,868,007 | $1,086,801 | $869,441 | $1,304,161 | $14,128,410 |
| 6V | $11,626,562 | $1,162,656 | $930,125 | $1,395,187 | $15,114,530 |
| 6V1 | $13,203,615 | $1,320,362 | $1,056,289 | $1,584,434 | $17,164,700 |
| 6W | $15,611,644 | $1,561,164 | $1,248,932 | $1,873,397 | $20,295,137 |
| 6X | $10,373,812 | $1,037,381 | $829,905 | $1,244,857 | $13,485,955 |
| 6X1 | $6,282,639 | $628,264 | $502,611 | $753,917 | $8,167,431 |
| 6Y | $6,738,134 | $673,813 | $539,051 | $808,576 | $8,759,574 |
| 6Y1 | $11,905,382 | $1,190,538 | $952,431 | $1,428,646 | $15,476,997 |

Appendix 6
CIVIL WORK COSTS

| BLOCK_ID1 | Pub_Notice_Cost | Joint_Trench_Cost | Non_Joint_Trench_Cost | Cust_Trench_Cost | Road_Resurf_Cost | Streetlights_Cost | Curb_Ramp_Cost | Permits_Inspections_Cost | Tree_Cost | SWPPP_Cost | Traff_Control_Cost | Civil_Subtotal_Cost | CIVIL_OAP | CIVIL_SUM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 INDUSTRIAL | $4,180 | $4,285,427 | $714,166 | $252,000 | $1,285,628 | $1,490,583 | $27,000 | $6,720 | $3,696 | $535,678 | $45,000 | $8,650,078 | $1,730,016 | $10,380,094 |
| 6A | $4,150 | $1,717,136 | $286,161 | $178,500 | $515,141 | $597,265 | $37,500 | $4,760 | $2,618 | $214,642 | $45,000 | $3,602,873 | $720,575 | $4,323,448 |
| 6A1 | $7,640 | $1,902,936 | $317,124 | $535,500 | $570,881 | $661,891 | $52,500 | $14,280 | $7,854 | $237,867 | $45,000 | $4,353,473 | $870,695 | $5,224,168 |
| 6A2 | $14,130 | $1,808,157 | $301,329 | $369,000 | $542,447 | $628,924 | $49,500 | $9,840 | $5,412 | $226,020 | $45,000 | $3,999,759 | $799,952 | $4,799,711 |
| 6AA | $11,340 | $2,464,009 | $410,627 | $696,000 | $739,203 | $857,047 | $39,000 | $18,560 | $10,208 | $308,001 | $45,000 | $5,598,995 | $1,119,799 | $6,718,794 |
| 6AA1 | $8,940 | $2,076,657 | $346,075 | $679,500 | $622,997 | $722,316 | $37,500 | $18,120 | $9,966 | $259,582 | $45,000 | $4,826,653 | $965,331 | $5,791,984 |
| 6AA2 | $9,000 | $2,396,899 | $399,443 | $711,000 | $719,070 | $833,704 | $36,000 | $18,960 | $10,428 | $299,612 | $45,000 | $5,479,116 | $1,095,823 | $6,574,939 |
| 6B | $9,050 | $1,860,554 | $310,061 | $505,500 | $558,166 | $647,149 | $54,000 | $13,480 | $7,414 | $232,569 | $45,000 | $4,242,943 | $848,589 | $5,091,532 |
| 6B1 | $7,140 | $1,899,016 | $316,471 | $451,500 | $569,705 | $660,527 | $43,500 | $12,040 | $6,622 | $237,377 | $45,000 | $4,248,898 | $849,780 | $5,098,678 |
| 6B2 | $6,700 | $1,690,874 | $281,784 | $553,500 | $507,262 | $588,130 | $22,500 | $14,760 | $8,118 | $211,359 | $45,000 | $3,929,987 | $785,997 | $4,715,984 |
| 6B3 | $6,610 | $1,847,036 | $307,809 | $517,500 | $554,111 | $642,447 | $55,500 | $13,800 | $7,590 | $230,880 | $45,000 | $4,228,283 | $845,657 | $5,073,940 |
| 6C | $7,120 | $1,881,730 | $313,590 | $607,500 | $564,519 | $654,515 | $27,000 | $16,200 | $8,910 | $235,216 | $45,000 | $4,361,300 | $872,260 | $5,233,560 |
| 6C1 | $6,150 | $1,559,123 | $259,828 | $432,000 | $467,737 | $542,303 | $16,500 | $11,520 | $6,336 | $194,890 | $45,000 | $3,541,387 | $708,277 | $4,249,664 |
| 6D | $12,340 | $4,026,251 | $670,975 | $1,096,500 | $1,207,875 | $1,400,435 | $66,000 | $29,240 | $16,082 | $503,281 | $45,000 | $9,073,979 | $1,814,796 | $10,888,775 |
| 6E | $13,830 | $4,127,042 | $687,772 | $1,086,000 | $1,238,113 | $1,435,493 | $66,000 | $28,960 | $15,928 | $515,880 | $45,000 | $9,260,018 | $1,852,004 | $11,112,022 |
| 6F | $10,720 | $3,161,515 | $526,866 | $898,500 | $948,454 | $1,099,657 | $69,000 | $23,960 | $13,178 | $395,189 | $45,000 | $7,192,039 | $1,438,408 | $8,630,447 |
| 6F1 | $20,510 | $3,924,133 | $653,957 | $939,000 | $1,177,240 | $1,364,916 | $91,500 | $25,040 | $13,772 | $490,517 | $45,000 | $8,745,585 | $1,749,117 | $10,494,702 |
| 6G | $9,950 | $2,199,213 | $366,499 | $576,000 | $659,764 | $764,944 | $37,500 | $15,360 | $8,448 | $274,902 | $45,000 | $4,957,580 | $991,516 | $5,949,096 |
| 6G1 | $7,890 | $1,238,332 | $206,368 | $352,500 | $371,500 | $430,724 | $22,500 | $9,400 | $5,170 | $154,792 | $45,000 | $2,844,176 | $568,835 | $3,413,011 |
| 6K | $7,230 | $2,036,690 | $339,414 | $640,500 | $611,007 | $708,414 | $30,000 | $17,080 | $9,394 | $254,586 | $45,000 | $4,699,315 | $939,863 | $5,639,178 |
| 6K2 | $8,210 | $1,570,125 | $261,661 | $403,500 | $471,037 | $546,130 | $28,500 | $10,760 | $5,918 | $196,266 | $45,000 | $3,547,107 | $709,421 | $4,256,528 |
| 6L | $6,860 | $2,113,180 | $352,161 | $634,500 | $633,954 | $735,019 | $31,500 | $16,920 | $9,306 | $264,148 | $45,000 | $4,842,548 | $968,510 | $5,811,058 |
| 6L1 | $8,230 | $1,991,332 | $331,856 | $454,500 | $597,400 | $692,637 | $39,000 | $12,120 | $6,666 | $248,917 | $45,000 | $4,427,658 | $885,532 | $5,313,190 |
| 6M | $8,630 | $2,302,909 | $383,780 | $646,500 | $690,873 | $801,012 | $37,500 | $17,240 | $9,482 | $287,864 | $45,000 | $5,230,790 | $1,046,158 | $6,276,948 |
| 6M1 | $6,670 | $2,168,306 | $361,348 | $615,000 | $650,492 | $754,193 | $33,000 | $16,400 | $9,020 | $271,038 | $45,000 | $4,930,467 | $986,093 | $5,916,560 |
| 6M2 | $16,130 | $1,944,105 | $323,985 | $300,000 | $583,232 | $676,211 | $25,500 | $8,000 | $4,400 | $243,013 | $45,000 | $4,169,576 | $833,915 | $5,003,491 |
| 6N | $8,580 | $2,323,047 | $387,136 | $813,000 | $696,914 | $808,016 | $36,000 | $21,680 | $11,924 | $290,381 | $45,000 | $5,441,678 | $1,088,336 | $6,530,014 |
| 6N1 | $10,340 | $2,555,364 | $425,851 | $763,500 | $766,609 | $888,822 | $37,500 | $20,360 | $11,198 | $319,420 | $45,000 | $5,843,964 | $1,168,793 | $7,012,757 |
| 6N2 | $9,150 | $2,208,175 | $367,992 | $739,500 | $662,453 | $768,061 | $37,500 | $19,720 | $10,846 | $276,022 | $45,000 | $5,144,419 | $1,028,884 | $6,173,303 |
| 6O | $8,650 | $2,553,778 | $425,587 | $795,000 | $766,133 | $888,271 | $36,000 | $21,200 | $11,660 | $319,222 | $45,000 | $5,870,501 | $1,174,100 | $7,044,601 |
| 6O1 | $8,150 | $2,313,433 | $385,534 | $705,000 | $694,030 | $804,672 | $40,500 | $18,800 | $10,340 | $289,179 | $45,000 | $5,314,638 | $1,062,928 | $6,377,566 |
| 6O2 | $8,400 | $2,513,818 | $418,928 | $730,500 | $754,146 | $874,372 | $34,500 | $19,480 | $10,714 | $314,227 | $45,000 | $5,724,085 | $1,144,817 | $6,868,902 |
| 6P | $8,330 | $2,197,094 | $366,146 | $861,000 | $659,128 | $764,207 | $33,000 | $22,960 | $12,628 | $274,637 | $45,000 | $5,244,130 | $1,048,826 | $6,292,956 |
| 6P1 | $8,140 | $2,247,915 | $374,615 | $795,000 | $674,374 | $781,883 | $33,000 | $21,200 | $11,660 | $280,989 | $45,000 | $5,273,776 | $1,054,755 | $6,328,531 |
| 6Q | $7,980 | $2,057,754 | $342,925 | $748,500 | $617,326 | $715,741 | $31,500 | $19,960 | $10,978 | $257,219 | $45,000 | $4,854,883 | $970,977 | $5,825,860 |
| 6Q1 | $8,510 | $2,318,571 | $386,390 | $772,500 | $695,571 | $806,459 | $34,500 | $20,600 | $11,330 | $289,821 | $45,000 | $5,389,252 | $1,077,850 | $6,467,102 |
| 6R | $8,800 | $2,395,490 | $399,208 | $783,000 | $718,647 | $833,214 | $40,500 | $20,880 | $11,484 | $299,436 | $45,000 | $5,555,659 | $1,111,132 | $6,666,791 |
| 6R1 | $9,110 | $2,127,323 | $354,518 | $784,500 | $638,197 | $739,939 | $27,000 | $20,920 | $11,506 | $265,915 | $45,000 | $5,023,928 | $1,004,786 | $6,028,714 |
| 6S | $7,250 | $1,974,693 | $329,083 | $639,000 | $592,408 | $686,850 | $34,500 | $17,040 | $9,372 | $246,837 | $45,000 | $4,582,033 | $916,407 | $5,498,440 |
| 6S1 | $7,360 | $2,115,210 | $352,500 | $667,500 | $634,563 | $735,725 | $36,000 | $17,800 | $9,790 | $264,401 | $45,000 | $4,885,849 | $977,170 | $5,863,019 |
| 6T | $8,330 | $2,318,443 | $386,369 | $775,500 | $695,533 | $806,415 | $31,500 | $20,680 | $11,374 | $289,805 | $45,000 | $5,388,949 | $1,077,790 | $6,466,739 |
| 6T1 | $13,020 | $2,269,737 | $378,252 | $700,500 | $680,921 | $789,474 | $34,500 | $18,680 | $10,274 | $283,717 | $45,000 | $5,224,075 | $1,044,815 | $6,268,890 |
| 6U | $7,970 | $2,171,676 | $361,910 | $748,500 | $651,503 | $755,366 | $16,500 | $19,960 | $10,978 | $271,459 | $45,000 | $5,060,822 | $1,012,164 | $6,072,986 |
| 6V | $8,340 | $2,474,552 | $412,384 | $762,000 | $742,366 | $860,714 | $39,000 | $20,320 | $11,176 | $309,319 | $45,000 | $5,685,171 | $1,137,034 | $6,822,205 |
| 6V1 | $12,760 | $3,019,019 | $503,119 | $613,500 | $905,706 | $1,050,093 | $60,000 | $16,360 | $8,998 | $377,377 | $45,000 | $6,611,932 | $1,322,386 | $7,934,318 |
| 6W | $17,850 | $3,894,289 | $648,983 | $496,500 | $1,168,287 | $1,354,535 | $61,500 | $13,240 | $7,282 | $486,786 | $45,000 | $8,194,252 | $1,638,850 | $9,833,102 |
| 6X | $7,580 | $2,168,354 | $361,356 | $697,500 | $650,506 | $754,210 | $42,000 | $18,600 | $10,230 | $271,044 | $45,000 | $5,026,380 | $1,005,276 | $6,031,656 |
| 6X1 | $5,460 | $1,343,207 | $223,845 | $405,000 | $402,962 | $467,202 | $30,000 | $10,800 | $5,940 | $167,901 | $45,000 | $3,107,317 | $621,463 | $3,728,780 |
| 6Y | $6,880 | $1,435,719 | $239,262 | $424,500 | $430,716 | $499,380 | $25,500 | $11,320 | $6,226 | $179,465 | $45,000 | $3,303,968 | $660,794 | $3,964,762 |
| 6Y1 | $7,890 | $2,660,868 | $443,434 | $670,500 | $798,260 | $925,519 | $72,000 | $17,880 | $9,834 | $332,609 | $45,000 | $5,983,794 | $1,196,759 | $7,180,553 |

Appendix 6
SPECIAL ELECTTRICAL WORK COSTS

| BLOCK_ID1 | XFMR_COST | PRIM_BACKBONE_CABLING_COST | SEC_BACKBONE_CABLING_COST | CUST_CABLE_COST | CUT_OVER_COST | BOUND_CIRC_FEEDER_COST | SUBSTATION_COST | SPCL_E_Subtotal | SPCL_E_OAP | SPECIAL_ELEC_SERV_TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 INDUSTRIAL | $1,155,000 | $462,826 | $822,802 | $917,067 | $84,000 | $75,000 | $200,000 | $3,716,695 | $743,339 | $4,460,034 |
| 6A | $525,000 | $185,451 | $329,690 | $380,641 | $59,500 | $75,000 | $0 | $1,555,282 | $311,056 | $1,866,338 |
| 6A1 | $700,000 | $205,517 | $365,364 | $479,234 | $178,500 | $75,000 | $0 | $2,003,615 | $400,723 | $2,404,338 |
| 6A2 | $612,500 | $195,281 | $347,166 | $431,594 | $123,000 | $75,000 | $100,000 | $1,884,541 | $376,908 | $2,261,449 |
| 6AA | $805,000 | $266,113 | $473,090 | $620,978 | $232,000 | $75,000 | $0 | $2,472,181 | $494,436 | $2,966,617 |
| 6AA1 | $700,000 | $224,279 | $398,718 | $539,153 | $226,500 | $75,000 | $0 | $2,163,650 | $432,730 | $2,596,380 |
| 6AA2 | $770,000 | $258,865 | $460,205 | $609,837 | $237,000 | $75,000 | $0 | $2,410,907 | $482,181 | $2,893,088 |
| 6B | $612,500 | $200,940 | $357,226 | $465,488 | $168,500 | $75,000 | $0 | $1,879,654 | $375,931 | $2,255,585 |
| 6B1 | $630,000 | $205,094 | $364,611 | $464,154 | $150,500 | $75,000 | $0 | $1,889,359 | $377,872 | $2,267,231 |
| 6B2 | $560,000 | $182,614 | $324,648 | $439,033 | $184,500 | $75,000 | $0 | $1,765,795 | $353,159 | $2,118,954 |
| 6B3 | $577,500 | $199,480 | $354,631 | $464,770 | $172,500 | $75,000 | $0 | $1,843,881 | $368,776 | $2,212,657 |
| 6C | $612,500 | $203,227 | $361,292 | $487,148 | $202,500 | $75,000 | $0 | $1,941,667 | $388,333 | $2,330,000 |
| 6C1 | $542,500 | $168,385 | $299,352 | $391,501 | $144,000 | $75,000 | $0 | $1,620,738 | $324,148 | $1,944,886 |
| 6D | $1,137,500 | $434,835 | $773,040 | $1,007,760 | $365,500 | $75,000 | $0 | $3,793,635 | $758,727 | $4,552,362 |
| 6E | $1,155,000 | $445,721 | $792,392 | $1,026,537 | $362,000 | $75,000 | $0 | $3,856,650 | $771,330 | $4,627,980 |
| 6F | $962,500 | $341,444 | $607,011 | $797,694 | $299,500 | $75,000 | $0 | $3,083,149 | $616,630 | $3,699,779 |
| 6F1 | $1,085,000 | $423,806 | $753,434 | $960,153 | $313,000 | $75,000 | $0 | $3,610,393 | $722,079 | $4,332,472 |
| 6G | $647,500 | $237,515 | $422,249 | $546,559 | $192,000 | $75,000 | $0 | $2,120,823 | $424,165 | $2,544,988 |
| 6G1 | $385,000 | $133,740 | $237,760 | $312,545 | $117,500 | $75,000 | $0 | $1,261,545 | $252,309 | $1,513,854 |
| 6K | $577,500 | $219,963 | $391,044 | $524,370 | $213,500 | $75,000 | $0 | $2,001,377 | $400,275 | $2,401,652 |
| 6K2 | $472,500 | $169,573 | $301,464 | $388,900 | $134,500 | $75,000 | $0 | $1,541,937 | $308,387 | $1,850,324 |
| 6L | $560,000 | $228,223 | $405,731 | $538,954 | $211,500 | $75,000 | $0 | $2,019,408 | $403,882 | $2,423,290 |
| 6L1 | $595,000 | $215,064 | $382,336 | $483,497 | $151,500 | $75,000 | $0 | $1,902,397 | $380,479 | $2,282,876 |
| 6M | $595,000 | $248,714 | $442,158 | $579,698 | $215,500 | $75,000 | $0 | $2,156,070 | $431,214 | $2,587,284 |
| 6M1 | $577,500 | $234,177 | $416,315 | $546,884 | $205,000 | $75,000 | $0 | $2,054,876 | $410,975 | $2,465,851 |
| 6M2 | $647,500 | $209,963 | $373,268 | $447,598 | $100,000 | $75,000 | $0 | $1,853,329 | $370,666 | $2,223,995 |
| 6N | $682,500 | $250,889 | $446,025 | $612,112 | $271,000 | $75,000 | $0 | $2,337,526 | $467,505 | $2,805,031 |
| 6N1 | $682,500 | $275,979 | $490,630 | $651,089 | $254,500 | $75,000 | $0 | $2,429,698 | $485,940 | $2,915,638 |
| 6N2 | $717,500 | $238,483 | $423,970 | $576,183 | $246,500 | $75,000 | $0 | $2,277,636 | $455,527 | $2,733,163 |
| 6O | $735,000 | $275,808 | $490,325 | $656,121 | $265,000 | $75,000 | $0 | $2,497,254 | $499,451 | $2,996,705 |
| 6O1 | $630,000 | $249,851 | $444,179 | $591,790 | $235,000 | $75,000 | $0 | $2,225,820 | $445,164 | $2,670,984 |
| 6O2 | $630,000 | $271,492 | $482,653 | $637,004 | $243,500 | $75,000 | $0 | $2,339,649 | $467,930 | $2,807,579 |
| 6P | $770,000 | $237,286 | $421,842 | $594,577 | $287,000 | $75,000 | $0 | $2,385,705 | $477,141 | $2,862,846 |
| 6P1 | $612,500 | $242,775 | $431,600 | $593,725 | $265,000 | $75,000 | $0 | $2,220,600 | $444,120 | $2,664,720 |
| 6Q | $700,000 | $222,237 | $395,089 | $547,027 | $249,500 | $75,000 | $0 | $2,188,853 | $437,771 | $2,626,624 |
| 6Q1 | $717,500 | $250,406 | $445,166 | $604,313 | $257,500 | $75,000 | $0 | $2,349,885 | $469,977 | $2,819,862 |
| 6R | $717,500 | $258,713 | $459,934 | $621,790 | $261,000 | $75,000 | $100,000 | $2,493,937 | $498,787 | $2,992,724 |
| 6R1 | $787,500 | $229,751 | $408,446 | $567,339 | $261,500 | $75,000 | $0 | $2,329,536 | $465,907 | $2,795,443 |
| 6S | $525,000 | $213,267 | $379,141 | $511,467 | $213,000 | $75,000 | $0 | $1,916,875 | $383,375 | $2,300,250 |
| 6S1 | $560,000 | $228,443 | $406,120 | $544,978 | $222,500 | $75,000 | $0 | $2,037,041 | $407,408 | $2,444,449 |
| 6T | $647,500 | $250,392 | $445,141 | $604,797 | $258,500 | $75,000 | $0 | $2,281,330 | $456,266 | $2,737,596 |
| 6T1 | $735,000 | $245,132 | $435,790 | $582,111 | $233,500 | $75,000 | $0 | $2,306,533 | $461,307 | $2,767,840 |
| 6U | $700,000 | $234,541 | $416,962 | $570,267 | $249,500 | $75,000 | $0 | $2,246,270 | $449,254 | $2,695,524 |
| 6V | $665,000 | $267,252 | $475,114 | $634,349 | $254,000 | $75,000 | $0 | $2,370,715 | $474,143 | $2,844,858 |
| 6V1 | $892,500 | $326,054 | $579,652 | $720,175 | $204,500 | $75,000 | $0 | $2,797,881 | $559,576 | $3,357,457 |
| 6W | $1,120,000 | $420,583 | $747,704 | $878,840 | $165,500 | $75,000 | $0 | $3,407,627 | $681,525 | $4,089,152 |
| 6X | $682,500 | $234,182 | $416,324 | $560,919 | $232,500 | $75,000 | $0 | $2,201,425 | $440,285 | $2,641,710 |
| 6X1 | $332,500 | $145,066 | $257,896 | $342,864 | $135,000 | $75,000 | $0 | $1,288,326 | $257,665 | $1,545,991 |
| 6Y | $385,000 | $155,058 | $275,658 | $365,052 | $141,500 | $75,000 | $0 | $1,397,268 | $279,454 | $1,676,722 |
| 6Y1 | $665,000 | $287,374 | $510,887 | $656,802 | $223,500 | $75,000 | $0 | $2,418,563 | $483,713 | $2,902,276 |

Appendix 6
BASIC ELECTRICAL WORK COSTS

| BLOCK_ID1 | PANEL_COST | OH_CABLE_RMV_COST | OH_CUST_CABLE_RMV_COST | STREET_POWER_POLE_RMVL_COST | ALLEY_POLE_COST | BACKLOT_POLE_COST | BASIC_E_Subtotal | BASIC_E_OAP | BASIC_ELEC_SERV_TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| 6 INDUSTRIAL | $336,000 | $130,426 | $44,184 | $117,250 | $0 | $656,000 | $1,283,860 | $256,772 | $1,540,632 |
| 6A | $238,000 | $52,261 | $31,297 | $101,500 | $20,000 | $184,000 | $627,058 | $125,412 | $752,470 |
| 6A1 | $714,000 | $57,915 | $93,891 | $243,250 | $8,000 | $20,000 | $1,137,056 | $227,411 | $1,364,467 |
| 6A2 | $492,000 | $55,031 | $64,698 | $190,750 | $56,000 | $4,000 | $862,479 | $172,496 | $1,034,975 |
| 6AA | $928,000 | $74,992 | $122,032 | $236,250 | $8,000 | $44,000 | $1,413,274 | $282,655 | $1,695,929 |
| 6AA1 | $906,000 | $63,203 | $119,139 | $252,000 | $6,000 | $44,000 | $1,390,342 | $278,068 | $1,668,410 |
| 6AA2 | $948,000 | $72,949 | $124,662 | $255,500 | $4,000 | $52,000 | $1,457,111 | $291,422 | $1,748,533 |
| 6B | $674,000 | $56,626 | $88,631 | $92,750 | $108,000 | $72,000 | $1,092,007 | $218,401 | $1,310,408 |
| 6B1 | $602,000 | $57,796 | $79,163 | $112,000 | $30,000 | $192,000 | $1,072,959 | $214,592 | $1,287,551 |
| 6B2 | $738,000 | $51,461 | $97,047 | $190,750 | $2,000 | $52,000 | $1,131,258 | $226,252 | $1,357,510 |
| 6B3 | $690,000 | $56,214 | $90,735 | $157,500 | $18,000 | $116,000 | $1,128,449 | $225,690 | $1,354,139 |
| 6C | $810,000 | $57,270 | $106,515 | $236,250 | $0 | $20,000 | $1,230,035 | $246,007 | $1,476,042 |
| 6C1 | $576,000 | $47,452 | $75,744 | $141,750 | $10,000 | $64,000 | $914,946 | $182,989 | $1,097,935 |
| 6D | $1,462,000 | $122,538 | $192,253 | $444,500 | $0 | $196,000 | $2,417,291 | $483,458 | $2,900,749 |
| 6E | $1,448,000 | $125,606 | $190,412 | $449,750 | $0 | $108,000 | $2,321,768 | $464,354 | $2,786,122 |
| 6F | $1,198,000 | $96,220 | $157,537 | $416,500 | $6,000 | $72,000 | $1,946,257 | $389,251 | $2,335,508 |
| 6F1 | $1,252,000 | $119,430 | $164,638 | $463,750 | $12,000 | $76,000 | $2,087,818 | $417,564 | $2,505,382 |
| 6G | $768,000 | $66,933 | $100,992 | $155,750 | $48,000 | $156,000 | $1,295,675 | $259,135 | $1,554,810 |
| 6G1 | $470,000 | $37,688 | $61,805 | $140,000 | $0 | $24,000 | $733,493 | $146,699 | $880,192 |
| 6K | $854,000 | $61,986 | $112,301 | $166,250 | $0 | $120,000 | $1,314,537 | $262,907 | $1,577,444 |
| 6K2 | $538,000 | $47,786 | $70,747 | $150,500 | $28,000 | $52,000 | $887,033 | $177,407 | $1,064,440 |
| 6L | $846,000 | $64,314 | $111,249 | $199,500 | $0 | $200,000 | $1,421,063 | $284,213 | $1,705,276 |
| 6L1 | $606,000 | $60,606 | $79,689 | $147,000 | $48,000 | $128,000 | $1,069,295 | $213,859 | $1,283,154 |
| 6M | $862,000 | $70,089 | $113,353 | $134,750 | $42,000 | $264,000 | $1,486,192 | $297,238 | $1,783,430 |
| 6M1 | $820,000 | $65,992 | $107,830 | $201,250 | $20,000 | $176,000 | $1,391,072 | $278,214 | $1,669,286 |
| 6M2 | $400,000 | $59,168 | $52,600 | $180,250 | $10,000 | $200,000 | $902,018 | $180,404 | $1,082,422 |
| 6N | $1,084,000 | $70,701 | $142,546 | $239,750 | $0 | $40,000 | $1,576,997 | $315,399 | $1,892,396 |
| 6N1 | $1,018,000 | $77,772 | $133,867 | $197,750 | $10,000 | $268,000 | $1,705,389 | $341,078 | $2,046,467 |
| 6N2 | $986,000 | $67,205 | $129,659 | $197,750 | $4,000 | $112,000 | $1,496,614 | $299,323 | $1,795,937 |
| 6O | $1,060,000 | $77,724 | $139,390 | $290,500 | $0 | $48,000 | $1,615,614 | $323,123 | $1,938,737 |
| 6O1 | $940,000 | $70,409 | $123,610 | $232,750 | $0 | $92,000 | $1,458,769 | $291,754 | $1,750,523 |
| 6O2 | $974,000 | $76,508 | $128,081 | $294,000 | $0 | $64,000 | $1,536,589 | $307,318 | $1,843,907 |
| 6P | $1,148,000 | $66,868 | $150,962 | $252,000 | $0 | $28,000 | $1,645,830 | $329,166 | $1,974,996 |
| 6P1 | $1,060,000 | $68,415 | $139,390 | $218,750 | $0 | $60,000 | $1,546,555 | $309,311 | $1,855,866 |
| 6Q | $998,000 | $62,627 | $131,237 | $218,750 | $0 | $56,000 | $1,466,614 | $293,323 | $1,759,937 |
| 6Q1 | $1,030,000 | $70,565 | $135,445 | $206,500 | $2,000 | $100,000 | $1,544,510 | $308,902 | $1,853,412 |
| 6R | $1,044,000 | $72,906 | $137,286 | $234,500 | $4,000 | $32,000 | $1,524,692 | $304,938 | $1,829,630 |
| 6R1 | $1,046,000 | $64,745 | $137,549 | $185,500 | $14,000 | $40,000 | $1,487,794 | $297,559 | $1,785,353 |
| 6S | $852,000 | $60,099 | $112,038 | $117,250 | $0 | $292,000 | $1,433,387 | $286,677 | $1,720,064 |
| 6S1 | $890,000 | $64,376 | $117,035 | $157,500 | $0 | $200,000 | $1,428,911 | $285,782 | $1,714,693 |
| 6T | $1,034,000 | $70,561 | $135,971 | $243,250 | $2,000 | $40,000 | $1,525,782 | $305,156 | $1,830,938 |
| 6T1 | $934,000 | $69,079 | $122,821 | $239,750 | $12,000 | $44,000 | $1,421,650 | $284,330 | $1,705,980 |
| 6U | $998,000 | $66,094 | $131,237 | $54,250 | $12,000 | $488,000 | $1,749,581 | $349,916 | $2,099,497 |
| 6V | $1,016,000 | $75,312 | $133,604 | $280,000 | $0 | $128,000 | $1,632,916 | $326,583 | $1,959,499 |
| 6V1 | $818,000 | $91,883 | $107,567 | $239,750 | $8,000 | $328,000 | $1,593,200 | $318,640 | $1,911,840 |
| 6W | $662,000 | $118,522 | $87,053 | $278,250 | $14,000 | $248,000 | $1,407,825 | $281,565 | $1,689,390 |
| 6X | $930,000 | $65,993 | $122,295 | $260,750 | $2,000 | $36,000 | $1,417,038 | $283,408 | $1,700,446 |
| 6X1 | $540,000 | $40,880 | $71,010 | $140,000 | $4,000 | $44,000 | $839,890 | $167,978 | $1,007,868 |
| 6Y | $566,000 | $43,696 | $74,429 | $99,750 | $18,000 | $112,000 | $913,875 | $182,775 | $1,096,650 |
| 6Y1 | $894,000 | $80,983 | $117,561 | $194,250 | $52,000 | $180,000 | $1,518,794 | $303,759 | $1,822,553 |

# APPENDIX 6

# DISTRICT 7

Appendix 6
Updated 2009 Master Plan with Applied Current Algorithms

| BLOCK_ID1 | CIP_ID | Council District | INTERSECTIONS | Backlot_Poles | ALLEY_Poles | OH_Poles | XFMR_Count | Meters | P_Length | ServiceDrop | SUB_Count |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7AA | UU951 | 7 | 29 | 8 | 0 | 112 | 32 | 475 | 21,805.37 | 388 | 0 |
| 7AA1 | UU952 | 7 | 25 | 8 | 0 | 128 | 43 | 560 | 20,507.75 | 461 | 0 |
| 7B | UU362 | 9 | 13 | 9 | 44 | 79 | 25 | 1107 | 8,588.00 | 210 | 0 |
| 7B1 | UU933 | 9 | 20 | 10 | 92 | 149 | 50 | 2408 | 15,366.93 | 353 | 0 |
| 7C | UU939 | 9 | 28 | 63 | 27 | 199 | 53 | 1559 | 23,486.66 | 325 | 0 |
| 7C1 | UU940 | 9 | 28 | 84 | 22 | 175 | 38 | 792 | 20,171.52 | 378 | 0 |
| 7D | UU934 | 9 | 19 | 3 | 1 | 95 | 19 | 341 | 12,171.73 | 255 | 0 |
| 7D1 | UU935 | 4 | 14 | 12 | 1 | 77 | 24 | 465 | 10,264.17 | 179 | 0 |
| 7E | UU936 | 4 | 21 | 12 | 0 | 103 | 36 | 524 | 13,504.18 | 380 | 0 |
| 7E1 | UU937 | 4 | 18 | 63 | 0 | 129 | 32 | 473 | 16,797.36 | 299 | 0 |
| 7E2 | UU938 | 4 | 9 | 10 | 6 | 113 | 38 | 661 | 13,595.48 | 383 | 0 |
| 7G | UU207 | 9 | 8 | 89 | 5 | 118 | 36 | 429 | 13,738.17 | 273 | 0 |
| 7G1 | UU208 | 9 | 12 | 89 | 15 | 134 | 42 | 464 | 17,368.08 | 368 | 0 |
| 7G3 | UU210 | 9 | 14 | 89 | 11 | 154 | 42 | 784 | 17,804.69 | 421 | 0 |
| 7H2 | UU941 | 9 | 32 | 51 | 44 | 174 | 49 | 658 | 20,387.26 | 382 | 0 |
| 7H3 | UU942 | 9 | 12 | 56 | 0 | 119 | 35 | 499 | 13,531.81 | 268 | 0 |
| 7I | UU206 | 9 | 13 | 4 | 0 | 82 | 21 | 333 | 10,002.93 | 242 | 0 |
| 7I2 | UU974 | 9 | 11 | 29 | 13 | 128 | 37 | 754 | 15,958.34 | 381 | 0 |
| 7IND | UU701 | 7 | 1 | 34 | 4 | 49 | 16 | 56 | 6,160.59 | 28 | 0 |
| 7J1 | UU948 | 9 | 26 | 41 | 16 | 175 | 49 | 1126 | 21,087.79 | 320 | 0 |
| 7K | UU943 | 9 | 10 | 63 | 2 | 113 | 32 | 540 | 12,076.83 | 314 | 0 |
| 7L | UU946 | 9 | 19 | 9 | 2 | 113 | 28 | 369 | 13,167.54 | 302 | 0 |
| 7L1 | UU947 | 9 | 19 | 16 | 4 | 149 | 35 | 518 | 17,012.98 | 396 | 0 |
| 7M | UU944 | 9 | 23 | 7 | 51 | 105 | 35 | 702 | 12,401.73 | 237 | 0 |
| 7M1 | UU945 | 9 | 24 | 13 | 41 | 137 | 35 | 799 | 16,811.81 | 271 | 0 |
| 7N | UU950 | 7 | 10 | 3 | 0 | 65 | 25 | 201 | 10,487.42 | 187 | 0 |
| 7P | UU971 | 7 | 13 | 15 | 4 | 92 | 26 | 443 | 10,350.25 | 213 | 0 |
| 7P1 | UU967 | 7 | 9 | 13 | 15 | 87 | 26 | 349 | 9,691.93 | 173 | 0 |
| 7Q | UU700 | 7 | 11 | 4 | 0 | 118 | 33 | 382 | 13,875.83 | 324 | 0 |
| 7R1 | UU970 | 7 | 18 | 37 | 0 | 115 | 27 | 361 | 13,328.59 | 294 | 0 |
| 7S | UU961 | 7 | 17 | 59 | 1 | 142 | 27 | 410 | 17,157.55 | 287 | 0 |
| 7S1 | UU960 | 7 | 21 | 76 | 0 | 194 | 56 | 622 | 25,454.26 | 499 | 0 |
| 7S2 | UU962 | 7 | 11 | 96 | 6 | 135 | 23 | 344 | 14,261.09 | 309 | 0 |
| 7T1 | UU963 | 7 | 12 | 65 | 0 | 118 | 27 | 338 | 13,872.67 | 309 | 0 |
| 7T2 | UU965 | 7 | 16 | 24 | 0 | 93 | 31 | 339 | 16,047.58 | 291 | 0 |
| 7U | UU949 | 7 | 11 | 26 | 0 | 94 | 45 | 462 | 18,857.56 | 256 | 0 |
| 7V | UU958 | 7 | 13 | 8 | 0 | 68 | 29 | 306 | 12,814.70 | 246 | 0 |
| 7V1 | UU64 | 7 | 29 | 9 | 0 | 102 | 40 | 460 | 23,347.43 | 396 | 0 |
| 7V2 | UU959 | 7 | 22 | 1 | 0 | 78 | 27 | 344 | 15,395.82 | 291 | 0 |
| 7W | UU956 | 7 | 19 | 8 | 0 | 90 | 31 | 394 | 16,820.47 | 322 | 0 |
| 7X | UU955 | 7 | 23 | 11 | 2 | 149 | 49 | 641 | 23,105.41 | 561 | 0 |
| 7Y | UU953 | 7 | 17 | 2 | 0 | 102 | 34 | 467 | 13,668.18 | 367 | 0 |
| 7Z | UU954 | 7 | 18 | 8 | 3 | 93 | 29 | 402 | 16,166.50 | 336 | 0 |

Appendix 6
Updated 2009 Master Plan with Applied Current Algorithms

| BLOCK_ID1 | TOTAL_CONST_SUM | CHANGE_ORDERS_COST | PRGM_MGMT_COST | ENGNR_SRVCS_COST | BLOCK_COST |
|---|---|---|---|---|---|
| 7AA | $10,710,496 | $1,071,050 | $856,840 | $1,285,260 | $13,923,646 |
| 7AA1 | $10,927,115 | $1,092,712 | $874,169 | $1,311,254 | $14,205,250 |
| 7B | $4,998,183 | $499,818 | $399,855 | $599,782 | $6,497,638 |
| 7B1 | $8,815,748 | $881,575 | $705,260 | $1,057,890 | $11,460,473 |
| 7C | $11,729,746 | $1,172,975 | $938,380 | $1,407,570 | $15,248,671 |
| 7C1 | $10,569,844 | $1,056,984 | $845,588 | $1,268,381 | $13,740,797 |
| 7D | $6,349,098 | $634,910 | $507,928 | $761,892 | $8,253,828 |
| 7D1 | $5,364,148 | $536,415 | $429,132 | $643,698 | $6,973,393 |
| 7E | $7,894,591 | $789,459 | $631,567 | $947,351 | $10,262,968 |
| 7E1 | $8,675,993 | $867,599 | $694,079 | $1,041,119 | $11,278,790 |
| 7E2 | $7,981,694 | $798,169 | $638,536 | $957,803 | $10,376,202 |
| 7G | $7,602,764 | $760,276 | $608,221 | $912,332 | $9,883,593 |
| 7G1 | $9,534,353 | $953,435 | $762,748 | $1,144,122 | $12,394,658 |
| 7G3 | $10,022,940 | $1,002,294 | $801,835 | $1,202,753 | $13,029,822 |
| 7H2 | $10,817,474 | $1,081,747 | $865,398 | $1,298,097 | $14,062,716 |
| 7H3 | $7,403,374 | $740,337 | $592,270 | $888,405 | $9,624,386 |
| 7I | $5,543,425 | $554,342 | $443,474 | $665,211 | $7,206,452 |
| 7I2 | $8,845,996 | $884,600 | $707,680 | $1,061,520 | $11,499,796 |
| 7IND | $2,938,479 | $293,848 | $235,078 | $352,617 | $3,820,022 |
| 7J1 | $10,677,397 | $1,067,740 | $854,192 | $1,281,288 | $13,880,617 |
| 7K | $7,100,247 | $710,025 | $568,020 | $852,030 | $9,230,322 |
| 7L | $7,191,015 | $719,102 | $575,281 | $862,922 | $9,348,320 |
| 7L1 | $9,264,361 | $926,436 | $741,149 | $1,111,723 | $12,043,669 |
| 7M | $6,723,025 | $672,302 | $537,842 | $806,763 | $8,739,932 |
| 7M1 | $8,498,851 | $849,885 | $679,908 | $1,019,862 | $11,048,506 |
| 7N | $5,445,167 | $544,517 | $435,613 | $653,420 | $7,078,717 |
| 7P | $5,660,834 | $566,083 | $452,867 | $679,300 | $7,359,084 |
| 7P1 | $5,195,319 | $519,532 | $415,626 | $623,438 | $6,753,915 |
| 7Q | $7,640,891 | $764,089 | $611,271 | $916,907 | $9,933,158 |
| 7R1 | $7,258,333 | $725,833 | $580,667 | $871,000 | $9,435,833 |
| 7S | $8,642,255 | $864,226 | $691,380 | $1,037,071 | $11,234,932 |
| 7S1 | $13,413,444 | $1,341,344 | $1,073,076 | $1,609,613 | $17,437,477 |
| 7S2 | $7,765,426 | $776,543 | $621,234 | $931,851 | $10,095,054 |
| 7T1 | $7,597,346 | $759,735 | $607,788 | $911,682 | $9,876,551 |
| 7T2 | $8,168,944 | $816,894 | $653,516 | $980,273 | $10,619,627 |
| 7U | $9,229,884 | $922,988 | $738,391 | $1,107,586 | $11,998,849 |
| 7V | $6,674,424 | $667,442 | $533,954 | $800,931 | $8,676,751 |
| 7V1 | $11,430,440 | $1,143,044 | $914,435 | $1,371,653 | $14,859,572 |
| 7V2 | $7,779,692 | $777,969 | $622,375 | $933,563 | $10,113,599 |
| 7W | $8,559,743 | $855,974 | $684,779 | $1,027,169 | $11,127,665 |
| 7X | $12,539,726 | $1,253,973 | $1,003,178 | $1,504,767 | $16,301,644 |
| 7Y | $7,800,149 | $780,015 | $624,012 | $936,018 | $10,140,194 |
| 7Z | $8,376,918 | $837,692 | $670,153 | $1,005,230 | $10,889,993 |

Appendix 6
CIVIL WORK COSTS

| BLOCK_ID1 | Pub_Notice_Cost | Joint_Trench_Cost | Non_Joint_Trench_Cost | Cust_Trench_Cost | Road_Resurf_Cost | Streetlights_Cost | Curb_Ramp_Cost | Permits_Inspections_Cost | Tree_Cost | SWPPP_Cost | Traff_Control_Cost | Civil_Subtotal_Cost | CIVIL_OAP | CIVIL_SUM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7AA | $7,250 | $2,507,618 | $417,894 | $582,000 | $752,285 | $872,215 | $43,500 | $15,520 | $8,536 | $313,452 | $45,000 | $5,565,270 | $1,113,054 | $6,678,324 |
| 7AA1 | $8,100 | $2,358,391 | $393,026 | $691,500 | $707,517 | $820,310 | $37,500 | $18,440 | $10,142 | $294,799 | $45,000 | $5,384,725 | $1,076,945 | $6,461,670 |
| 7B | $13,570 | $987,619 | $164,587 | $315,000 | $296,286 | $343,520 | $19,500 | $8,400 | $4,620 | $123,452 | $45,000 | $2,321,554 | $464,311 | $2,785,865 |
| 7B1 | $26,580 | $1,767,197 | $294,503 | $529,500 | $530,159 | $614,677 | $30,000 | $14,120 | $7,766 | $220,900 | $45,000 | $4,080,402 | $816,080 | $4,896,482 |
| 7C | $18,090 | $2,700,966 | $450,116 | $487,500 | $810,290 | $939,466 | $42,000 | $13,000 | $7,150 | $337,621 | $45,000 | $5,851,199 | $1,170,240 | $7,021,439 |
| 7C1 | $10,420 | $2,319,725 | $386,582 | $567,000 | $695,918 | $806,861 | $42,000 | $15,120 | $8,316 | $289,966 | $45,000 | $5,186,908 | $1,037,382 | $6,224,290 |
| 7D | $5,910 | $1,399,749 | $233,268 | $382,500 | $419,925 | $486,869 | $28,500 | $10,200 | $5,610 | $174,969 | $45,000 | $3,192,500 | $638,500 | $3,831,000 |
| 7D1 | $7,150 | $1,180,380 | $196,710 | $268,500 | $354,114 | $410,567 | $21,000 | $7,160 | $3,938 | $147,547 | $45,000 | $2,642,066 | $528,413 | $3,170,479 |
| 7E | $7,740 | $1,552,981 | $258,804 | $570,000 | $465,894 | $540,167 | $31,500 | $15,200 | $8,360 | $194,123 | $45,000 | $3,689,769 | $737,954 | $4,427,723 |
| 7E1 | $7,230 | $1,931,696 | $321,917 | $448,500 | $579,509 | $671,894 | $27,000 | $11,960 | $6,578 | $241,462 | $45,000 | $4,292,746 | $858,549 | $5,151,295 |
| 7E2 | $9,110 | $1,563,481 | $260,554 | $574,500 | $469,044 | $543,819 | $13,500 | $15,320 | $8,426 | $195,435 | $45,000 | $3,698,189 | $739,638 | $4,437,827 |
| 7G | $6,790 | $1,579,889 | $263,289 | $409,500 | $473,967 | $549,527 | $12,000 | $10,920 | $6,006 | $197,486 | $45,000 | $3,554,374 | $710,875 | $4,265,249 |
| 7G1 | $7,140 | $1,997,329 | $332,855 | $552,000 | $599,199 | $694,723 | $18,000 | $14,720 | $8,096 | $249,666 | $45,000 | $4,518,728 | $903,746 | $5,422,474 |
| 7G3 | $10,340 | $2,047,540 | $341,222 | $631,500 | $614,262 | $712,188 | $21,000 | $16,840 | $9,262 | $255,942 | $45,000 | $4,705,096 | $941,019 | $5,646,115 |
| 7H2 | $9,080 | $2,344,535 | $390,717 | $573,000 | $703,361 | $815,491 | $48,000 | $15,280 | $8,404 | $293,067 | $45,000 | $5,245,935 | $1,049,187 | $6,295,122 |
| 7H3 | $7,490 | $1,556,159 | $259,334 | $402,000 | $466,848 | $541,273 | $18,000 | $10,720 | $5,896 | $194,520 | $45,000 | $3,507,240 | $701,448 | $4,208,688 |
| 7I | $5,830 | $1,150,337 | $191,704 | $363,000 | $345,101 | $400,117 | $19,500 | $9,680 | $5,324 | $143,792 | $45,000 | $2,679,385 | $535,877 | $3,215,262 |
| 7I2 | $10,040 | $1,835,209 | $305,838 | $571,500 | $550,563 | $638,333 | $16,500 | $15,240 | $8,382 | $229,401 | $45,000 | $4,226,006 | $845,201 | $5,071,207 |
| 7IND | $3,060 | $708,467 | $118,066 | $42,000 | $212,540 | $246,423 | $1,500 | $1,120 | $616 | $88,558 | $45,000 | $1,467,350 | $293,470 | $1,760,820 |
| 7J1 | $13,760 | $2,425,096 | $404,142 | $480,000 | $727,529 | $843,512 | $39,000 | $12,800 | $7,040 | $303,137 | $45,000 | $5,301,016 | $1,060,203 | $6,361,219 |
| 7K | $7,900 | $1,388,835 | $231,449 | $471,000 | $416,651 | $483,073 | $15,000 | $12,560 | $6,908 | $173,604 | $45,000 | $3,251,980 | $650,396 | $3,902,376 |
| 7L | $6,190 | $1,514,268 | $252,353 | $453,000 | $454,280 | $526,702 | $28,500 | $12,080 | $6,644 | $189,283 | $45,000 | $3,488,300 | $697,660 | $4,185,960 |
| 7L1 | $7,680 | $1,956,493 | $326,050 | $594,000 | $586,948 | $680,519 | $28,500 | $15,840 | $8,712 | $244,562 | $45,000 | $4,494,304 | $898,861 | $5,393,165 |
| 7M | $9,520 | $1,426,200 | $237,676 | $355,500 | $427,860 | $496,069 | $34,500 | $9,480 | $5,214 | $178,275 | $45,000 | $3,225,294 | $645,059 | $3,870,353 |
| 7M1 | $10,490 | $1,933,358 | $322,194 | $406,500 | $580,007 | $672,472 | $36,000 | $10,840 | $5,962 | $241,670 | $45,000 | $4,264,493 | $852,899 | $5,117,392 |
| 7N | $4,510 | $1,206,054 | $200,989 | $280,500 | $361,816 | $419,497 | $15,000 | $7,480 | $4,114 | $150,757 | $45,000 | $2,695,717 | $539,143 | $3,234,860 |
| 7P | $6,930 | $1,190,278 | $198,360 | $319,500 | $357,083 | $414,010 | $19,500 | $8,520 | $4,686 | $148,785 | $45,000 | $2,712,652 | $542,530 | $3,255,182 |
| 7P1 | $5,990 | $1,114,572 | $185,743 | $259,500 | $334,372 | $387,677 | $13,500 | $6,920 | $3,806 | $139,322 | $45,000 | $2,496,402 | $499,280 | $2,995,682 |
| 7Q | $6,320 | $1,595,720 | $265,927 | $486,000 | $478,716 | $555,033 | $16,500 | $12,960 | $7,128 | $199,465 | $45,000 | $3,668,769 | $733,754 | $4,402,523 |
| 7R1 | $6,110 | $1,532,788 | $255,439 | $441,000 | $459,836 | $533,144 | $27,000 | $11,760 | $6,468 | $191,599 | $45,000 | $3,510,144 | $702,029 | $4,212,173 |
| 7S | $6,600 | $1,973,119 | $328,820 | $430,500 | $591,936 | $686,302 | $25,500 | $11,480 | $6,314 | $246,640 | $45,000 | $4,352,211 | $870,442 | $5,222,653 |
| 7S1 | $8,720 | $2,927,240 | $487,824 | $748,500 | $878,172 | $1,018,170 | $31,500 | $19,960 | $10,978 | $365,905 | $45,000 | $6,541,969 | $1,308,394 | $7,850,363 |
| 7S2 | $5,940 | $1,640,026 | $273,310 | $463,500 | $492,008 | $570,444 | $16,500 | $12,360 | $6,798 | $205,003 | $45,000 | $3,730,889 | $746,178 | $4,477,067 |
| 7T1 | $5,880 | $1,595,357 | $265,866 | $463,500 | $478,607 | $554,907 | $18,000 | $12,360 | $6,798 | $199,420 | $45,000 | $3,645,695 | $729,139 | $4,374,834 |
| 7T2 | $5,890 | $1,845,472 | $307,548 | $436,500 | $553,641 | $641,903 | $24,000 | $11,640 | $6,402 | $230,684 | $45,000 | $4,108,680 | $821,736 | $4,930,416 |
| 7U | $7,120 | $2,168,620 | $361,400 | $384,000 | $650,586 | $754,302 | $16,500 | $10,240 | $5,632 | $271,077 | $45,000 | $4,674,477 | $934,895 | $5,609,372 |
| 7V | $5,560 | $1,473,691 | $245,591 | $369,000 | $442,107 | $512,588 | $19,500 | $9,840 | $5,412 | $184,211 | $45,000 | $3,312,500 | $662,500 | $3,975,000 |
| 7V1 | $7,100 | $2,684,954 | $447,448 | $594,000 | $805,486 | $933,897 | $43,500 | $15,840 | $8,712 | $335,619 | $45,000 | $5,921,556 | $1,184,311 | $7,105,867 |
| 7V2 | $5,940 | $1,770,519 | $295,057 | $436,500 | $531,156 | $615,833 | $33,000 | $11,640 | $6,402 | $221,315 | $45,000 | $3,972,362 | $794,472 | $4,766,834 |
| 7W | $6,440 | $1,934,354 | $322,360 | $483,000 | $580,306 | $672,819 | $28,500 | $12,880 | $7,084 | $241,794 | $45,000 | $4,334,537 | $866,907 | $5,201,444 |
| 7X | $8,910 | $2,657,122 | $442,809 | $841,500 | $797,137 | $924,216 | $34,500 | $22,440 | $12,342 | $332,140 | $45,000 | $6,118,116 | $1,223,623 | $7,341,739 |
| 7Y | $7,170 | $1,571,841 | $261,947 | $550,500 | $471,552 | $546,727 | $25,500 | $14,680 | $8,074 | $196,480 | $45,000 | $3,699,471 | $739,894 | $4,439,365 |
| 7Z | $6,520 | $1,859,148 | $309,827 | $504,000 | $557,744 | $646,660 | $27,000 | $13,440 | $7,392 | $232,393 | $45,000 | $4,209,124 | $841,825 | $5,050,949 |

Appendix 6
SPECIAL ELECTTRICAL WORK COSTS

| BLOCK_ID1 | XFMR_COST | PRIM_BACKBONE_CABLING_COST | SEC_BACKBONE_CABLING_COST | CUST_CABLE_COST | CUT_OVER_COST | BOUND_CIRC_FEEDER_COST | SUBSTATION_COST | SPCL_E_Subtotal | SPCL_E_OAP | SPECIAL_ELEC_SERV_TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| 7AA | $560,000 | $270,823 | $481,463 | $610,494 | $194,000 | $75,000 | $0 | $2,191,780 | $438,356 | $2,630,136 |
| 7AA1 | $752,500 | $254,706 | $452,811 | $598,667 | $230,500 | $75,000 | $0 | $2,364,184 | $472,837 | $2,837,021 |
| 7B | $437,500 | $106,663 | $189,623 | $255,024 | $105,000 | $75,000 | $0 | $1,168,810 | $233,762 | $1,402,572 |
| 7B1 | $875,000 | $190,857 | $339,302 | $450,523 | $176,500 | $75,000 | $0 | $2,107,182 | $421,436 | $2,528,618 |
| 7C | $927,500 | $291,704 | $518,585 | $633,872 | $162,500 | $75,000 | $0 | $2,609,161 | $521,832 | $3,130,993 |
| 7C1 | $665,000 | $250,530 | $445,387 | $569,614 | $189,000 | $75,000 | $0 | $2,194,531 | $438,906 | $2,633,437 |
| 7D | $332,500 | $151,173 | $268,752 | $350,574 | $127,500 | $75,000 | $0 | $1,305,499 | $261,100 | $1,566,599 |
| 7D1 | $420,000 | $127,481 | $226,633 | $286,442 | $89,500 | $75,000 | $0 | $1,225,056 | $245,011 | $1,470,067 |
| 7E | $630,000 | $167,722 | $298,172 | $413,708 | $190,000 | $75,000 | $0 | $1,774,602 | $354,920 | $2,129,522 |
| 7E1 | $560,000 | $208,623 | $370,886 | $470,311 | $149,500 | $75,000 | $0 | $1,834,320 | $366,864 | $2,201,184 |
| 7E2 | $665,000 | $168,856 | $300,188 | $416,615 | $191,500 | $75,000 | $0 | $1,817,159 | $363,432 | $2,180,591 |
| 7G | $630,000 | $170,628 | $303,339 | $391,912 | $136,500 | $75,000 | $0 | $1,707,379 | $341,476 | $2,048,855 |
| 7G1 | $735,000 | $215,712 | $383,487 | $501,295 | $184,000 | $75,000 | $0 | $2,094,494 | $418,899 | $2,513,393 |
| 7G3 | $735,000 | $221,134 | $393,128 | $525,053 | $210,500 | $75,000 | $0 | $2,159,815 | $431,963 | $2,591,778 |
| 7H2 | $857,500 | $253,210 | $450,151 | $575,695 | $191,000 | $75,000 | $0 | $2,402,556 | $480,511 | $2,883,067 |
| 7H3 | $612,500 | $168,065 | $298,782 | $385,796 | $134,000 | $75,000 | $0 | $1,674,143 | $334,829 | $2,008,972 |
| 7I | $367,500 | $124,236 | $220,865 | $296,379 | $121,000 | $75,000 | $0 | $1,204,980 | $240,996 | $1,445,976 |
| 7I2 | $647,500 | $198,203 | $352,360 | $471,538 | $190,500 | $75,000 | $0 | $1,935,101 | $387,020 | $2,322,121 |
| 7IND | $280,000 | $76,514 | $136,026 | $151,667 | $14,000 | $75,000 | $0 | $733,207 | $146,641 | $879,848 |
| 7J1 | $857,500 | $261,910 | $465,618 | $576,320 | $160,000 | $75,000 | $0 | $2,396,348 | $479,270 | $2,875,618 |
| 7K | $560,000 | $149,994 | $266,656 | $363,392 | $157,000 | $75,000 | $0 | $1,572,042 | $314,408 | $1,886,450 |
| 7L | $490,000 | $163,541 | $290,739 | $385,921 | $151,000 | $75,000 | $0 | $1,556,201 | $311,240 | $1,867,441 |
| 7L1 | $612,500 | $211,301 | $375,647 | $500,105 | $198,000 | $75,000 | $0 | $1,972,553 | $394,511 | $2,367,064 |
| 7M | $612,500 | $154,030 | $273,830 | $351,380 | $118,500 | $75,000 | $0 | $1,585,240 | $317,048 | $1,902,288 |
| 7M1 | $612,500 | $208,803 | $371,205 | $463,510 | $135,500 | $75,000 | $0 | $1,866,518 | $373,304 | $2,239,822 |
| 7N | $437,500 | $130,254 | $231,562 | $293,720 | $93,500 | $75,000 | $0 | $1,261,536 | $252,307 | $1,513,843 |
| 7P | $455,000 | $128,550 | $228,533 | $297,132 | $106,500 | $75,000 | $0 | $1,290,715 | $258,143 | $1,548,858 |
| 7P1 | $455,000 | $120,374 | $213,998 | $271,488 | $86,500 | $75,000 | $0 | $1,222,360 | $244,472 | $1,466,832 |
| 7Q | $577,500 | $172,338 | $306,378 | $408,147 | $162,000 | $75,000 | $0 | $1,701,363 | $340,273 | $2,041,636 |
| 7R1 | $472,500 | $165,541 | $294,295 | $387,659 | $147,000 | $75,000 | $0 | $1,541,995 | $308,399 | $1,850,394 |
| 7S | $472,500 | $213,097 | $378,839 | $475,701 | $143,500 | $75,000 | $0 | $1,758,637 | $351,727 | $2,110,364 |
| 7S1 | $980,000 | $316,142 | $562,030 | $724,402 | $249,500 | $75,000 | $0 | $2,907,074 | $581,415 | $3,488,489 |
| 7S2 | $402,500 | $177,123 | $314,885 | $413,360 | $154,500 | $75,000 | $0 | $1,537,368 | $307,474 | $1,844,842 |
| 7T1 | $472,500 | $172,299 | $306,309 | $404,248 | $154,500 | $75,000 | $0 | $1,584,856 | $316,971 | $1,901,827 |
| 7T2 | $542,500 | $199,311 | $354,331 | $450,681 | $145,500 | $75,000 | $0 | $1,767,323 | $353,465 | $2,120,788 |
| 7U | $787,500 | $234,211 | $416,375 | $507,678 | $128,000 | $75,000 | $0 | $2,148,764 | $429,753 | $2,578,517 |
| 7V | $507,500 | $159,159 | $282,949 | $363,363 | $123,000 | $75,000 | $0 | $1,510,971 | $302,194 | $1,813,165 |
| 7V1 | $700,000 | $289,975 | $515,511 | $648,711 | $198,000 | $75,000 | $0 | $2,427,197 | $485,439 | $2,912,636 |
| 7V2 | $472,500 | $191,216 | $339,940 | $435,391 | $145,500 | $75,000 | $0 | $1,659,547 | $331,909 | $1,991,456 |
| 7W | $542,500 | $208,910 | $371,396 | $476,718 | $161,000 | $75,000 | $0 | $1,835,524 | $367,105 | $2,202,629 |
| 7X | $857,500 | $286,969 | $510,167 | $685,108 | $280,500 | $75,000 | $0 | $2,695,244 | $539,049 | $3,234,293 |
| 7Y | $595,000 | $169,759 | $301,793 | $414,241 | $183,500 | $75,000 | $0 | $1,739,293 | $347,859 | $2,087,152 |
| 7Z | $507,500 | $200,788 | $356,956 | $464,946 | $168,000 | $75,000 | $0 | $1,773,190 | $354,638 | $2,127,828 |

Appendix 6
BASIC ELECTRICAL WORK COSTS

| BLOCK_ID1 | PANEL_COST | OH_CABLE_RMV_COST | OH_CUST_CABLE_RMV_COST | STREET_POWER_POLE_RMVL_COST | ALLEY_POLE_COST | BACKLOT_POLE_COST | BASIC_E_Subtotal | BASIC_E_OAP | BASIC_ELEC_SERV_TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| 7AA | $776,000 | $76,319 | $102,044 | $182,000 | $0 | $32,000 | $1,168,363 | $233,673 | $1,402,036 |
| 7AA1 | $922,000 | $71,777 | $121,243 | $210,000 | $0 | $32,000 | $1,357,020 | $271,404 | $1,628,424 |
| 7B | $420,000 | $30,058 | $55,230 | $45,500 | $88,000 | $36,000 | $674,788 | $134,958 | $809,746 |
| 7B1 | $706,000 | $53,784 | $92,839 | $82,250 | $184,000 | $40,000 | $1,158,873 | $231,775 | $1,390,648 |
| 7C | $650,000 | $82,203 | $85,475 | $190,750 | $54,000 | $252,000 | $1,314,428 | $262,886 | $1,577,314 |
| 7C1 | $756,000 | $70,600 | $99,414 | $120,750 | $44,000 | $336,000 | $1,426,764 | $285,353 | $1,712,117 |
| 7D | $510,000 | $42,601 | $67,065 | $159,250 | $2,000 | $12,000 | $792,916 | $158,583 | $951,499 |
| 7D1 | $358,000 | $35,925 | $47,077 | $112,000 | $2,000 | $48,000 | $603,002 | $120,600 | $723,602 |
| 7E | $760,000 | $47,265 | $99,940 | $159,250 | $0 | $48,000 | $1,114,455 | $222,891 | $1,337,346 |
| 7E1 | $598,000 | $58,791 | $78,637 | $115,500 | $0 | $252,000 | $1,102,928 | $220,586 | $1,323,514 |
| 7E2 | $766,000 | $47,584 | $100,729 | $169,750 | $12,000 | $40,000 | $1,136,063 | $227,213 | $1,363,276 |
| 7G | $546,000 | $48,084 | $71,799 | $42,000 | $10,000 | $356,000 | $1,073,883 | $214,777 | $1,288,660 |
| 7G1 | $736,000 | $60,788 | $96,784 | $52,500 | $30,000 | $356,000 | $1,332,072 | $266,414 | $1,598,486 |
| 7G3 | $842,000 | $62,316 | $110,723 | $94,500 | $22,000 | $356,000 | $1,487,539 | $297,508 | $1,785,047 |
| 7H2 | $764,000 | $71,355 | $100,466 | $138,250 | $88,000 | $204,000 | $1,366,071 | $273,214 | $1,639,285 |
| 7H3 | $536,000 | $47,361 | $70,484 | $110,250 | $0 | $224,000 | $988,095 | $197,619 | $1,185,714 |
| 7I | $484,000 | $35,010 | $63,646 | $136,500 | $0 | $16,000 | $735,156 | $147,031 | $882,187 |
| 7I2 | $762,000 | $55,854 | $100,203 | $150,500 | $26,000 | $116,000 | $1,210,557 | $242,111 | $1,452,668 |
| 7IND | $56,000 | $21,562 | $7,364 | $19,250 | $8,000 | $136,000 | $248,176 | $49,635 | $297,811 |
| 7J1 | $640,000 | $73,807 | $84,160 | $206,500 | $32,000 | $164,000 | $1,200,467 | $240,093 | $1,440,560 |
| 7K | $628,000 | $42,269 | $82,582 | $84,000 | $4,000 | $252,000 | $1,092,851 | $218,570 | $1,311,421 |
| 7L | $604,000 | $46,086 | $79,426 | $178,500 | $4,000 | $36,000 | $948,012 | $189,602 | $1,137,614 |
| 7L1 | $792,000 | $59,545 | $104,148 | $225,750 | $8,000 | $64,000 | $1,253,443 | $250,689 | $1,504,132 |
| 7M | $474,000 | $43,406 | $62,331 | $82,250 | $102,000 | $28,000 | $791,987 | $158,397 | $950,384 |
| 7M1 | $542,000 | $58,841 | $71,273 | $145,250 | $82,000 | $52,000 | $951,364 | $190,273 | $1,141,637 |
| 7N | $374,000 | $36,706 | $49,181 | $108,500 | $0 | $12,000 | $580,387 | $116,077 | $696,464 |
| 7P | $426,000 | $36,226 | $56,019 | $127,750 | $8,000 | $60,000 | $713,995 | $142,799 | $856,794 |
| 7P1 | $346,000 | $33,922 | $45,499 | $103,250 | $30,000 | $52,000 | $610,671 | $122,134 | $732,805 |
| 7Q | $648,000 | $48,565 | $85,212 | $199,500 | $0 | $16,000 | $997,277 | $199,455 | $1,196,732 |
| 7R1 | $588,000 | $46,650 | $77,322 | $136,500 | $0 | $148,000 | $996,472 | $199,294 | $1,195,766 |
| 7S | $574,000 | $60,051 | $75,481 | $143,500 | $2,000 | $236,000 | $1,091,032 | $218,206 | $1,309,238 |
| 7S1 | $998,000 | $89,090 | $131,237 | $206,500 | $0 | $304,000 | $1,728,827 | $345,765 | $2,074,592 |
| 7S2 | $618,000 | $49,914 | $81,267 | $57,750 | $12,000 | $384,000 | $1,202,931 | $240,586 | $1,443,517 |
| 7T1 | $618,000 | $48,554 | $81,267 | $92,750 | $0 | $260,000 | $1,100,571 | $220,114 | $1,320,685 |
| 7T2 | $582,000 | $56,167 | $76,533 | $120,750 | $0 | $96,000 | $931,450 | $186,290 | $1,117,740 |
| 7U | $512,000 | $66,001 | $67,328 | $119,000 | $0 | $104,000 | $868,329 | $173,666 | $1,041,995 |
| 7V | $492,000 | $44,851 | $64,698 | $105,000 | $0 | $32,000 | $738,549 | $147,710 | $886,259 |
| 7V1 | $792,000 | $81,716 | $104,148 | $162,750 | $0 | $36,000 | $1,176,614 | $235,323 | $1,411,937 |
| 7V2 | $582,000 | $53,885 | $76,533 | $134,750 | $0 | $4,000 | $851,168 | $170,234 | $1,021,402 |
| 7W | $644,000 | $58,872 | $84,686 | $143,500 | $0 | $32,000 | $963,058 | $192,612 | $1,155,670 |
| 7X | $1,122,000 | $80,869 | $147,543 | $238,000 | $4,000 | $44,000 | $1,636,412 | $327,282 | $1,963,694 |
| 7Y | $734,000 | $47,839 | $96,521 | $175,000 | $0 | $8,000 | $1,061,360 | $212,272 | $1,273,632 |
| 7Z | $672,000 | $56,583 | $88,368 | $143,500 | $6,000 | $32,000 | $998,451 | $199,690 | $1,198,141 |

# APPENDIX 6

# DISTRICT 8

Appendix 6

Updated 2009 Master Plan with Applied Current Algorithms

| BLOCK_ID1 | CIP_ID | Council District | INTERSECTIONS | Backlot_Poles | ALLEY_Poles | OH_Poles | XFMR_Count | Meters | P_Length | ServiceDrop | SUB_Count |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8A1 | UU497 | 3 | 35 | 9 | 54 | 110 | 26 | 901 | 10,118.03 | 189 | 0 |
| 8D | UU496 | 8 | 9 | 17 | 47 | 102 | 29 | 429 | 10,969.85 | 223 | 0 |
| 8D1 | UU810 | 8 | 28 | 31 | 49 | 129 | 20 | 444 | 13,801.60 | 296 | 0 |
| 8E | UU803 | 8 | 26 | 23 | 53 | 129 | 26 | 677 | 13,848.68 | 186 | 0 |
| 8H | UU820 | 8 | 3 | 30 | 73 | 112 | 27 | 466 | 10,485.88 | 225 | 0 |
| 8I | UU819 | 8 | 13 | 19 | 96 | 133 | 20 | 611 | 12,562.38 | 293 | 0 |
| 8J | UU813 | 8 | 8 | 2 | 83 | 102 | 14 | 526 | 9,587.55 | 260 | 0 |
| 8J1 | UU809 | 8 | 7 | 13 | 40 | 74 | 20 | 259 | 7,672.54 | 165 | 0 |
| 8J2 | UU812 | 8 | 8 | 7 | 67 | 88 | 20 | 529 | 8,499.76 | 215 | 0 |
| 8K | UU835 | 8 | 15 | 5 | 59 | 83 | 16 | 454 | 7,259.33 | 202 | 0 |
| 8K1 | UU811 | 8 | 19 | 19 | 20 | 93 | 19 | 453 | 10,154.79 | 225 | 0 |
| 8L | UU822 | 8 | 24 | 31 | 61 | 148 | 33 | 638 | 14,711.33 | 272 | 0 |
| 8M | UU821 | 8 | 35 | 29 | 61 | 137 | 37 | 347 | 14,320.14 | 233 | 0 |
| 8M1 | UU665 | 8 | 27 | 24 | 59 | 129 | 25 | 532 | 16,310.99 | 263 | 0 |
| 8N | UU823 | 9 | 23 | 23 | 45 | 117 | 22 | 453 | 13,183.19 | 235 | 0 |
| 8N1 | UU824 | 9 | 21 | 29 | 33 | 103 | 21 | 348 | 12,185.06 | 258 | 0 |
| 8O | UU826 | 8 | 17 | 25 | 46 | 109 | 19 | 520 | 13,785.61 | 265 | 0 |
| 8P | UU825 | 8 | 52 | 8 | 66 | 138 | 24 | 544 | 16,458.52 | 284 | 0 |
| 8Q | UU827 | 8 | 20 | 18 | 3 | 114 | 34 | 383 | 15,039.51 | 187 | 0 |
| 8S | UU314 | 8 | 28 | 14 | 0 | 99 | 23 | 350 | 14,185.32 | 349 | 0 |
| 8U | UU666 | 8 | 20 | 19 | 0 | 89 | 28 | 304 | 14,031.96 | 304 | 0 |
| 8U1 | UU828 | 8 | 18 | 19 | 0 | 121 | 23 | 340 | 13,475.20 | 316 | 0 |
| 8V | UU829 | 8 | 22 | 17 | 0 | 102 | 21 | 365 | 15,027.37 | 349 | 0 |
| 8W | UU831 | 8 | 11 | 18 | 0 | 86 | 17 | 399 | 9,642.90 | 87 | 0 |
| 8X | UU832 | 8 | 20 | 33 | 0 | 123 | 26 | 407 | 14,442.82 | 170 | 0 |
| 8X1 | UU830 | 8 | 10 | 81 | 0 | 146 | 23 | 280 | 15,823.00 | 140 | 0 |

Appendix 6
Updated 2009 Master Plan with Applied Current Algorithms

| BLOCK_ID1 | TOTAL_CONST_SUM | CHANGE_ORDERS_COST | PRGM_MGMT_COST | ENGNR_SRVCS_COST | BLOCK_COST |
|---|---|---|---|---|---|
| 8A1 | $5,531,347 | $553,135 | $442,508 | $663,762 | $7,190,752 |
| 8D | $6,022,262 | $602,226 | $481,781 | $722,671 | $7,828,940 |
| 8D1 | $7,330,706 | $733,071 | $586,456 | $879,685 | $9,529,918 |
| 8E | $6,847,014 | $684,701 | $547,761 | $821,642 | $8,901,118 |
| 8H | $5,879,569 | $587,957 | $470,366 | $705,548 | $7,643,440 |
| 8I | $6,856,252 | $685,625 | $548,500 | $822,750 | $8,913,127 |
| 8J | $5,408,359 | $540,836 | $432,669 | $649,003 | $7,030,867 |
| 8J1 | $4,311,450 | $431,145 | $344,916 | $517,374 | $5,604,885 |
| 8J2 | $4,895,003 | $489,500 | $391,600 | $587,400 | $6,363,503 |
| 8K | $4,309,474 | $430,947 | $344,758 | $517,137 | $5,602,316 |
| 8K1 | $5,541,675 | $554,168 | $443,334 | $665,001 | $7,204,178 |
| 8L | $7,821,013 | $782,101 | $625,681 | $938,522 | $10,167,317 |
| 8M | $7,544,924 | $754,492 | $603,594 | $905,391 | $9,808,401 |
| 8M1 | $8,094,398 | $809,440 | $647,552 | $971,328 | $10,522,718 |
| 8N | $6,769,431 | $676,943 | $541,554 | $812,332 | $8,800,260 |
| 8N1 | $6,512,421 | $651,242 | $520,994 | $781,491 | $8,466,148 |
| 8O | $7,055,883 | $705,588 | $564,471 | $846,706 | $9,172,648 |
| 8P | $8,262,125 | $826,212 | $660,970 | $991,455 | $10,740,762 |
| 8Q | $7,352,730 | $735,273 | $588,218 | $882,328 | $9,558,549 |
| 8S | $7,691,270 | $769,127 | $615,302 | $922,952 | $9,998,651 |
| 8U | $7,474,142 | $747,414 | $597,931 | $896,897 | $9,716,384 |
| 8U1 | $7,309,042 | $730,904 | $584,723 | $877,085 | $9,501,754 |
| 8V | $7,940,525 | $794,052 | $635,242 | $952,863 | $10,322,682 |
| 8W | $4,528,022 | $452,802 | $362,242 | $543,363 | $5,886,429 |
| 8X | $6,946,379 | $694,638 | $555,710 | $833,565 | $9,030,292 |
| 8X1 | $7,348,068 | $734,807 | $587,845 | $881,768 | $9,552,488 |

Appendix 6
CIVIL WORK COSTS

| BLOCK_ID1 | Pub_Notice_Cost | Joint_Trench_Cost | Non_Joint_Trench_Cost | Cust_Trench_Cost | Road_Resurf_Cost | Streetlights_Cost | Curb_Ramp_Cost | Permits_Inspections_Cost | Tree_Cost | SWPPP_Cost | Traff_Control_Cost | Civil_Subtotal_Cost | CIVIL_OAP | CIVIL_SUM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8A1 | $11,510 | $1,163,573 | $193,909 | $283,500 | $349,072 | $404,721 | $52,500 | $7,560 | $4,158 | $145,447 | $45,000 | $2,660,950 | $532,190 | $3,193,140 |
| 8D | $6,790 | $1,261,533 | $210,235 | $334,500 | $378,460 | $438,794 | $13,500 | $8,920 | $4,906 | $157,692 | $45,000 | $2,860,330 | $572,066 | $3,432,396 |
| 8D1 | $6,940 | $1,587,184 | $264,504 | $444,000 | $476,155 | $552,064 | $42,000 | $11,840 | $6,512 | $198,398 | $45,000 | $3,634,597 | $726,919 | $4,361,516 |
| 8E | $9,270 | $1,592,598 | $265,406 | $279,000 | $477,779 | $553,947 | $39,000 | $7,440 | $4,092 | $199,075 | $45,000 | $3,472,607 | $694,521 | $4,167,128 |
| 8H | $7,160 | $1,205,876 | $200,959 | $337,500 | $361,763 | $419,435 | $4,500 | $9,000 | $4,950 | $150,735 | $45,000 | $2,746,878 | $549,376 | $3,296,254 |
| 8I | $8,610 | $1,444,674 | $240,755 | $439,500 | $433,402 | $502,495 | $19,500 | $11,720 | $6,446 | $180,584 | $45,000 | $3,332,686 | $666,537 | $3,999,223 |
| 8J | $7,760 | $1,102,569 | $183,743 | $390,000 | $330,771 | $383,502 | $12,000 | $10,400 | $5,720 | $137,821 | $45,000 | $2,609,286 | $521,857 | $3,131,143 |
| 8J1 | $5,090 | $882,342 | $147,042 | $247,500 | $264,702 | $306,901 | $10,500 | $6,600 | $3,630 | $110,293 | $45,000 | $2,029,600 | $405,920 | $2,435,520 |
| 8J2 | $7,790 | $977,472 | $162,896 | $322,500 | $293,242 | $339,990 | $12,000 | $8,600 | $4,730 | $122,184 | $45,000 | $2,296,404 | $459,281 | $2,755,685 |
| 8K | $7,040 | $834,823 | $139,123 | $303,000 | $250,447 | $290,373 | $22,500 | $8,080 | $4,444 | $104,353 | $45,000 | $2,009,183 | $401,837 | $2,411,020 |
| 8K1 | $7,030 | $1,167,800 | $194,614 | $337,500 | $350,340 | $406,191 | $28,500 | $9,000 | $4,950 | $145,975 | $45,000 | $2,696,900 | $539,380 | $3,236,280 |
| 8L | $8,880 | $1,691,804 | $281,939 | $408,000 | $507,541 | $588,453 | $36,000 | $10,880 | $5,984 | $211,475 | $45,000 | $3,795,956 | $759,191 | $4,555,147 |
| 8M | $5,970 | $1,646,816 | $274,442 | $349,500 | $494,045 | $572,806 | $52,500 | $9,320 | $5,126 | $205,852 | $45,000 | $3,661,377 | $732,275 | $4,393,652 |
| 8M1 | $7,820 | $1,875,764 | $312,596 | $394,500 | $562,729 | $652,440 | $40,500 | $10,520 | $5,786 | $234,470 | $45,000 | $4,142,125 | $828,425 | $4,970,550 |
| 8N | $7,030 | $1,516,066 | $252,652 | $352,500 | $454,820 | $527,327 | $34,500 | $9,400 | $5,170 | $189,508 | $45,000 | $3,393,973 | $678,795 | $4,072,768 |
| 8N1 | $5,980 | $1,401,282 | $233,524 | $387,000 | $420,385 | $487,403 | $31,500 | $10,320 | $5,676 | $175,160 | $45,000 | $3,203,230 | $640,646 | $3,843,876 |
| 8O | $7,700 | $1,585,345 | $264,198 | $397,500 | $475,604 | $551,424 | $25,500 | $10,600 | $5,830 | $198,168 | $45,000 | $3,566,869 | $713,374 | $4,280,243 |
| 8P | $7,940 | $1,892,730 | $315,423 | $426,000 | $567,819 | $658,341 | $78,000 | $11,360 | $6,248 | $236,591 | $45,000 | $4,245,452 | $849,090 | $5,094,542 |
| 8Q | $6,330 | $1,729,543 | $288,228 | $280,500 | $518,863 | $601,580 | $30,000 | $7,480 | $4,114 | $216,193 | $45,000 | $3,727,831 | $745,566 | $4,473,397 |
| 8S | $6,000 | $1,631,312 | $271,858 | $523,500 | $489,394 | $567,413 | $42,000 | $13,960 | $7,678 | $203,914 | $45,000 | $3,802,029 | $760,406 | $4,562,435 |
| 8U | $5,540 | $1,613,676 | $268,919 | $456,000 | $484,103 | $561,279 | $30,000 | $12,160 | $6,688 | $201,709 | $45,000 | $3,685,074 | $737,015 | $4,422,089 |
| 8U1 | $5,900 | $1,549,647 | $258,249 | $474,000 | $464,894 | $539,008 | $27,000 | $12,640 | $6,952 | $193,706 | $45,000 | $3,576,996 | $715,399 | $4,292,395 |
| 8V | $6,150 | $1,728,148 | $287,996 | $523,500 | $518,444 | $601,095 | $33,000 | $13,960 | $7,678 | $216,019 | $45,000 | $3,980,990 | $796,198 | $4,777,188 |
| 8W | $6,490 | $1,108,933 | $184,804 | $130,500 | $332,680 | $385,716 | $16,500 | $3,480 | $1,914 | $138,617 | $45,000 | $2,354,634 | $470,927 | $2,825,561 |
| 8X | $6,570 | $1,660,924 | $276,793 | $255,000 | $498,277 | $577,713 | $30,000 | $6,800 | $3,740 | $207,616 | $45,000 | $3,568,433 | $713,687 | $4,282,120 |
| 8X1 | $5,300 | $1,819,645 | $303,244 | $210,000 | $545,893 | $632,920 | $15,000 | $5,600 | $3,080 | $227,456 | $45,000 | $3,813,138 | $762,628 | $4,575,766 |

Appendix 6
SPECIAL ELECTTRICAL WORK COSTS

| BLOCK_ID1 | XFMR_COST | PRIM_BACKBONE_CABLING_COST | SEC_BACKBONE_CABLING_COST | CUST_CABLE_COST | CUT_OVER_COST | BOUND_CIRC_FEEDER_COST | SUBSTATION_COST | SPCL_E_Subtotal | SPCL_E_OAP | SPECIAL_ELEC_SERV_TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| 8A1 | $455,000 | $125,666 | $223,406 | $285,564 | $94,500 | $75,000 | $0 | $1,259,136 | $251,827 | $1,510,963 |
| 8D | $507,500 | $136,246 | $242,214 | $314,218 | $111,500 | $75,000 | $0 | $1,386,678 | $277,336 | $1,664,014 |
| 8D1 | $350,000 | $171,416 | $304,739 | $399,266 | $148,000 | $75,000 | $0 | $1,448,421 | $289,684 | $1,738,105 |
| 8E | $455,000 | $172,001 | $305,779 | $372,320 | $93,000 | $75,000 | $0 | $1,473,100 | $294,620 | $1,767,720 |
| 8H | $472,500 | $130,235 | $231,528 | $303,374 | $112,500 | $75,000 | $0 | $1,325,137 | $265,027 | $1,590,164 |
| 8I | $350,000 | $156,025 | $277,377 | $369,429 | $146,500 | $75,000 | $0 | $1,374,331 | $274,866 | $1,649,197 |
| 8J | $245,000 | $119,077 | $211,693 | $291,224 | $130,000 | $75,000 | $0 | $1,071,994 | $214,399 | $1,286,393 |
| 8J1 | $350,000 | $95,293 | $169,410 | $222,073 | $82,500 | $75,000 | $0 | $994,276 | $198,855 | $1,193,131 |
| 8J2 | $350,000 | $105,567 | $187,675 | $254,229 | $107,500 | $75,000 | $0 | $1,079,971 | $215,994 | $1,295,965 |
| 8K | $280,000 | $90,161 | $160,286 | $221,814 | $101,000 | $75,000 | $0 | $928,261 | $185,652 | $1,113,913 |
| 8K1 | $332,500 | $126,122 | $224,218 | $295,606 | $112,500 | $75,000 | $0 | $1,165,946 | $233,189 | $1,399,135 |
| 8L | $577,500 | $182,715 | $324,826 | $414,488 | $136,000 | $75,000 | $0 | $1,710,529 | $342,106 | $2,052,635 |
| 8M | $647,500 | $177,856 | $316,189 | $395,366 | $116,500 | $75,000 | $0 | $1,728,411 | $345,682 | $2,074,093 |
| 8M1 | $437,500 | $202,582 | $360,147 | $449,721 | $131,500 | $75,000 | $0 | $1,656,450 | $331,290 | $1,987,740 |
| 8N | $385,000 | $163,735 | $291,085 | $369,203 | $117,500 | $75,000 | $0 | $1,401,523 | $280,305 | $1,681,828 |
| 8N1 | $367,500 | $151,338 | $269,046 | $351,652 | $129,000 | $75,000 | $0 | $1,343,536 | $268,707 | $1,612,243 |
| 8O | $332,500 | $171,217 | $304,386 | $390,985 | $132,500 | $75,000 | $0 | $1,406,588 | $281,318 | $1,687,906 |
| 8P | $420,000 | $204,415 | $363,404 | $458,537 | $142,000 | $75,000 | $0 | $1,663,356 | $332,671 | $1,996,027 |
| 8Q | $595,000 | $186,791 | $332,072 | $400,512 | $93,500 | $75,000 | $0 | $1,682,875 | $336,575 | $2,019,450 |
| 8S | $402,500 | $176,182 | $313,212 | $421,783 | $174,500 | $75,000 | $0 | $1,563,177 | $312,635 | $1,875,812 |
| 8U | $490,000 | $174,277 | $309,826 | $406,710 | $152,000 | $75,000 | $0 | $1,607,813 | $321,563 | $1,929,376 |
| 8U1 | $402,500 | $167,362 | $297,532 | $396,708 | $158,000 | $75,000 | $0 | $1,497,102 | $299,420 | $1,796,522 |
| 8V | $367,500 | $186,640 | $331,804 | $441,537 | $174,500 | $75,000 | $0 | $1,576,981 | $315,396 | $1,892,377 |
| 8W | $297,500 | $119,765 | $212,915 | $248,407 | $43,500 | $75,000 | $0 | $997,087 | $199,417 | $1,196,504 |
| 8X | $455,000 | $179,380 | $318,897 | $382,179 | $85,000 | $75,000 | $0 | $1,495,456 | $299,091 | $1,794,547 |
| 8X1 | $402,500 | $196,522 | $349,372 | $406,908 | $70,000 | $75,000 | $0 | $1,500,302 | $300,060 | $1,800,362 |

Appendix 6
BASIC ELECTRICAL WORK COSTS

| BLOCK_ID1 | PANEL_COST | OH_CABLE_RMV_COST | OH_CUST_CABLE_RMV_COST | STREET_POWER_POLE_RMVL_COST | ALLEY_POLE_COST | BACKLOT_POLE_COST | BASIC_E_Subtotal | BASIC_E_OAP | BASIC_ELEC_SERV_TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| 8A1 | $378,000 | $35,413 | $49,707 | $82,250 | $108,000 | $36,000 | $689,370 | $137,874 | $827,244 |
| 8D | $446,000 | $38,394 | $58,649 | $66,500 | $94,000 | $68,000 | $771,543 | $154,309 | $925,852 |
| 8D1 | $592,000 | $48,306 | $77,848 | $85,750 | $98,000 | $124,000 | $1,025,904 | $205,181 | $1,231,085 |
| 8E | $372,000 | $48,470 | $48,918 | $92,750 | $106,000 | $92,000 | $760,138 | $152,028 | $912,166 |
| 8H | $450,000 | $36,701 | $59,175 | $15,750 | $146,000 | $120,000 | $827,626 | $165,525 | $993,151 |
| 8I | $586,000 | $43,968 | $77,059 | $31,500 | $192,000 | $76,000 | $1,006,527 | $201,305 | $1,207,832 |
| 8J | $520,000 | $33,556 | $68,380 | $29,750 | $166,000 | $8,000 | $825,686 | $165,137 | $990,823 |
| 8J1 | $330,000 | $26,854 | $43,395 | $36,750 | $80,000 | $52,000 | $568,999 | $113,800 | $682,799 |
| 8J2 | $430,000 | $29,749 | $56,545 | $24,500 | $134,000 | $28,000 | $702,794 | $140,559 | $843,353 |
| 8K | $404,000 | $25,408 | $53,126 | $33,250 | $118,000 | $20,000 | $653,784 | $130,757 | $784,541 |
| 8K1 | $450,000 | $35,542 | $59,175 | $94,500 | $40,000 | $76,000 | $755,217 | $151,043 | $906,260 |
| 8L | $544,000 | $51,490 | $71,536 | $98,000 | $122,000 | $124,000 | $1,011,026 | $202,205 | $1,213,231 |
| 8M | $466,000 | $50,120 | $61,279 | $82,250 | $122,000 | $116,000 | $897,649 | $179,530 | $1,077,179 |
| 8M1 | $526,000 | $57,088 | $69,169 | $80,500 | $118,000 | $96,000 | $946,757 | $189,351 | $1,136,108 |
| 8N | $470,000 | $46,141 | $61,805 | $85,750 | $90,000 | $92,000 | $845,696 | $169,139 | $1,014,835 |
| 8N1 | $516,000 | $42,648 | $67,854 | $71,750 | $66,000 | $116,000 | $880,252 | $176,050 | $1,056,302 |
| 8O | $530,000 | $48,250 | $69,695 | $66,500 | $92,000 | $100,000 | $906,445 | $181,289 | $1,087,734 |
| 8P | $568,000 | $57,605 | $74,692 | $112,000 | $132,000 | $32,000 | $976,297 | $195,259 | $1,171,556 |
| 8Q | $374,000 | $52,638 | $49,181 | $162,750 | $6,000 | $72,000 | $716,569 | $143,314 | $859,883 |
| 8S | $698,000 | $49,649 | $91,787 | $148,750 | $0 | $56,000 | $1,044,186 | $208,837 | $1,253,023 |
| 8U | $608,000 | $49,112 | $79,952 | $122,500 | $0 | $76,000 | $935,564 | $187,113 | $1,122,677 |
| 8U1 | $632,000 | $47,163 | $83,108 | $178,500 | $0 | $76,000 | $1,016,771 | $203,354 | $1,220,125 |
| 8V | $698,000 | $52,596 | $91,787 | $148,750 | $0 | $68,000 | $1,059,133 | $211,827 | $1,270,960 |
| 8W | $174,000 | $33,750 | $22,881 | $119,000 | $0 | $72,000 | $421,631 | $84,326 | $505,957 |
| 8X | $340,000 | $50,550 | $44,710 | $157,500 | $0 | $132,000 | $724,760 | $144,952 | $869,712 |
| 8X1 | $280,000 | $55,380 | $36,820 | $113,750 | $0 | $324,000 | $809,950 | $161,990 | $971,940 |

# APPENDIX 7

## GIS TOOLS AND PROCESSES

Included herein is the complete description of the GIS information used in the development of updating the new Master Plan. This appendix describes in detail the steps taken for generating the Cost and Priority algorithms in ArcGIS.

Appendix 7
GIS Development Process

## I. CITY GIS INFORMATION:

A copy of the City UUPProjects_17May2016.shx file was created and renamed "MP2016_UUPProject" and saved under Master Plan.mdb personal geodatabase.

New files were created for Surcharge and Rule 20A projects from the MP2016_UUPProject file. Surcharge projects were separated out and renamed MP2016_SurchargeAll. Similarly, Rule 20A projects were also separated out and renamed MP2016_Rule20A.

## II. SANDAG Information

**Parcels Data:** The "PARCELS" data contains polygons representing current taxable parcels in San Diego County and some non-taxable parcels. The information was narrowed to the boundaries of the City of San Diego to make the information more manageable by use of the Geoprocessing "Clip" tool and named "PARCELS_SD_Subtype1_100ft_Dissol". Only parcels classified as Subtype 1 denoting "Regular parcel with APN number" were used in the analysis. Additionally, parcels residing within open-space areas were removed from the analysis.

**Land Use Data:** The "LANDUSE_CURRENT" dataset contains information on existing land use created for use in the Regional Growth Forecast to distribute projected growth for the San Diego region to suitable subareas. The information was merged by classification using the geoprocessing "Dissolve" tool.

**Roads Data:** The "ROADS_ALL" data contains centerline segments for all roads (active and inactive, public and private, constructed or of record) within San Diego County. The information from SANDAG was based on data received from all official jurisdictions within the County (the County and 18 cities). Additionally, the data separates the City of San Diego's streets into respective classifications such as Alley, Avenue, Boulevard, Bike Path, Bridge, etc.

**Alley Data:** This data was created by extracting selected information from the ROADS_ALL data and made into a separate dataset named "ROADS_ALL_Alley" to contain only those roads denoted as alleyways throughout the City of San Diego. The "Select by Attributes" tool was used within the ROADS_ALL attribute table to select only the records listed as "A" denoting Alleys within the SEGCLASS field.

**Intersections Data:** The "ROADS_INTERSECTIONS" data consists of points which represent intersection nodes at the end of individual road segments in the SanGIS ROADS_ALL layer. Only the Intersection Type code of "I" was used which denotes the 'Normal' Intersection of 3 or more segments. The Type Code defines why the road segment is terminated at that point.

## III. SDG&E INFORMATION:

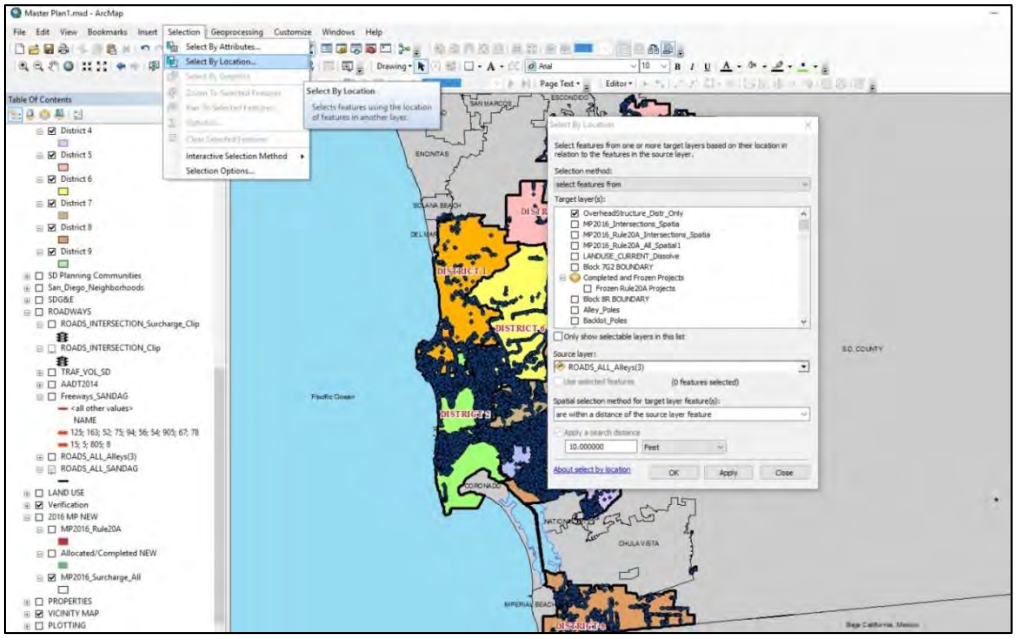
The SDG&E utility data is found within the "SanDiegoMasterPlan.gdb" geodatabase received from SDG&E in May2016.

**Transformer Data:** The geoprocessing tool "Select by Attributes" was used within the attribute table to select only those features classified as "OH" denoting overhead transformers from the "SEU_GIS_EL" field. Transformers listed as undergrounded (UG) were not considered within the analysis. The data was renamed "Transformer_Device_OHUG".

**Overhead Structures (Power Poles) Data**: The geoprocessing tool "Select by Attributes" was used to select only those features classified as Subtype "1" which denotes distribution poles and Subtype 12 which denotes stub poles used for anchoring support. Stub poles distanced further than 75-feet from distribution poles were removed from the analysis as they were assumed to be used as support for transmission poles. All other pole designation types (i.e transmission poles) were removed from the data. The data was renamed "OverheadStructure_Distr_Stub".

**Alley Poles Data**: A copy of the SDG&E OverheadStructure data was made and renamed Alley_Poles. From this new data, the geoprocessing tool "Select by Location" was used to select only those poles that resided within ten (10) feet of alleyways which are found in the ROADS_ALL_Allley data created as described in Section II and as shown in Figure 1. Ten (10) feet from the segment centerline was assumed sufficient distance for typical alleyway widths.

**FIGURE 1 – ALLEY POLES (SELECT BY LOCATION)**




**Backlot Poles Data**: Similar to the Alley Pole data created above, a copy of the SDG&E OverheadStructure data was made and renamed Backlot_Poles. From this data the geoprocessing tool "Select by Location" was used to select only those poles that resided within thirty (30) feet

of roadways from the SANDAG ROADS_ALL data. As Surcharge projects are generally comprised of small residential neighborhoods, the thirty (30) foot distance was assumed as sufficient distance for the location of standard home backyards.

**Pole Line(wire) Data:** A copy of the SDG&E PoleLine data was made and renamed PoleLine_Trench layer. The geoprocessing tool "Select by Location" was used to remove all pole lines with a distance greater than one (1) foot from the "OverheadStructure_Distr_Stub" data. This selection criterion of a distance of one (1) foot was used to omit the counting of multiple power lines within the same pole span. As the length of pole lines was selected to best represent the anticipated length of joint trenching required by block, multiple lines within the same span would skew the length of trenching anticipated per project block.

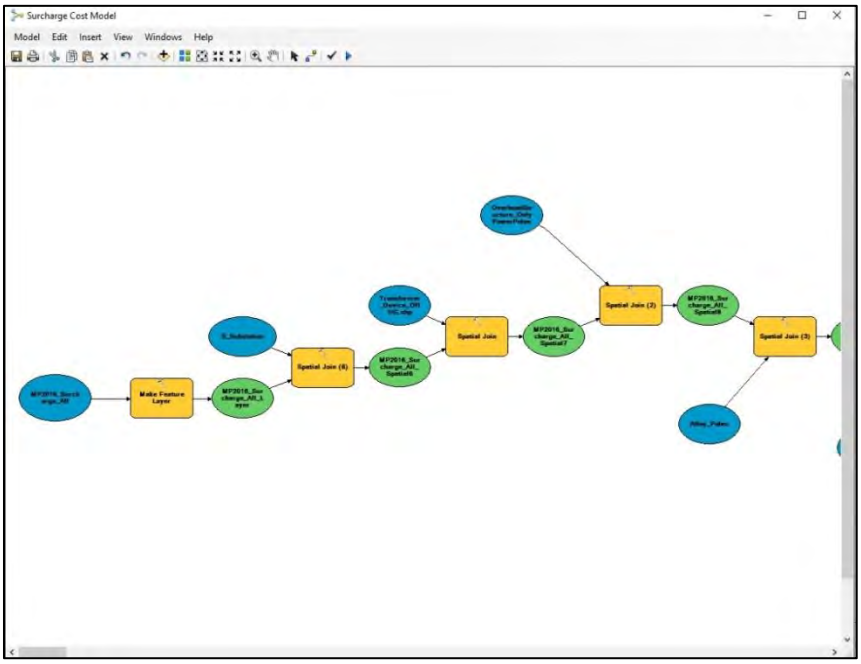
Additionally, since the OverheadStructure_Distr_Stub data delineated only those poles used for distribution lines, omitting power lines a distance farther than one (1) foot away also removed pole lines associated with transmission lines since the SDG&E data itself did not distinguish between distribution use and transmission use.

**Substation Data**: The S_Substation dataset was used as received.

## IV. MODEL BUILDER:

The datasets created above were used as the inputs for the cost algorithm developed through ModelBuilder to automate the calculation of quantities residing within each project block and for use in any recalculations needed when City project block boundaries are changed. The City UUP data was used as the target layer on which to apply the following processes and tools.

**FIGURE 2 – MODELBUILDER EXAMPLE**

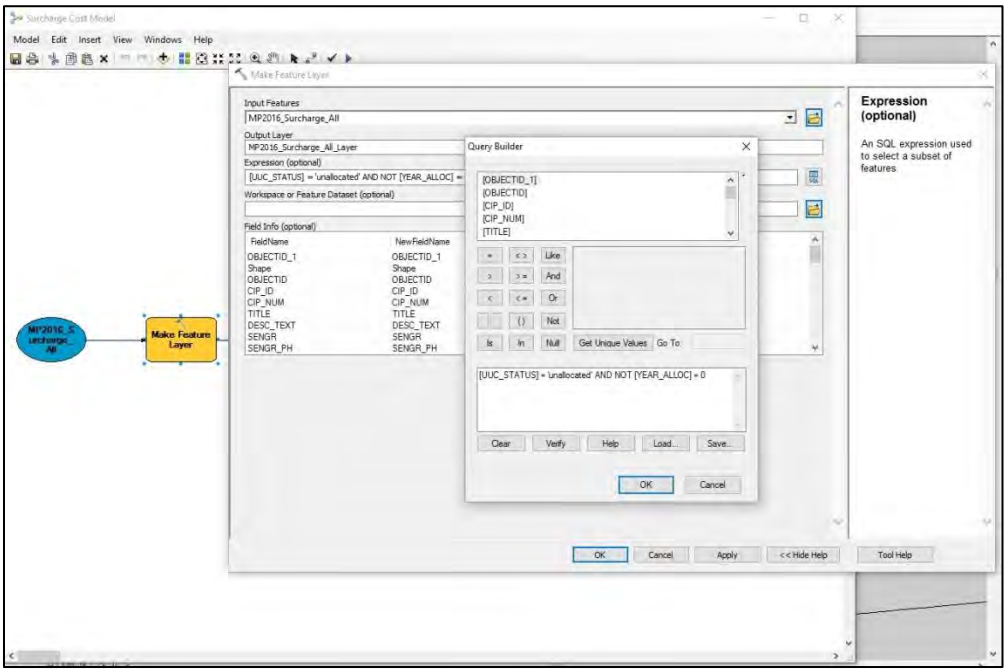


## V. COST ALGORITHM:

The cost algorithm was developed through the use of ArcMap tools and processes inputted in a desired sequence. A dialogue box is opened by double clicking on the tool icons which allows the user to set further preconditions and parameters.

**Make Feature Layer Tool**: From the City's UUP data, a new dataset was created containing all projects listed under the Surcharge fund and named "2016MP_Surcharge_All". The data was used for the Surcharge Cost Algorithm analysis. Within Model Builder the "Make Feature Layer" tool was used to sort through the input data and establish selection criteria for which Surcharge project blocks to be analyzed from the City's entire Surcharge project inventory. Upon review of past City project records, it was determined that all projects listed as "unallocated" under the "UUC_STATUS" field were remaining to be undergrounded. Additionally, the City inventory included project blocks delineating "Open Space" areas. These projects were found to have been also listed as "unallocated" but given an allocation year of "0" within the inventory database. Within the Make Feature Layer tool dialogue box, an expression was generated to include all projects listed as "unallocated" and excluded those projects with an allocation year of "0" as shown below.

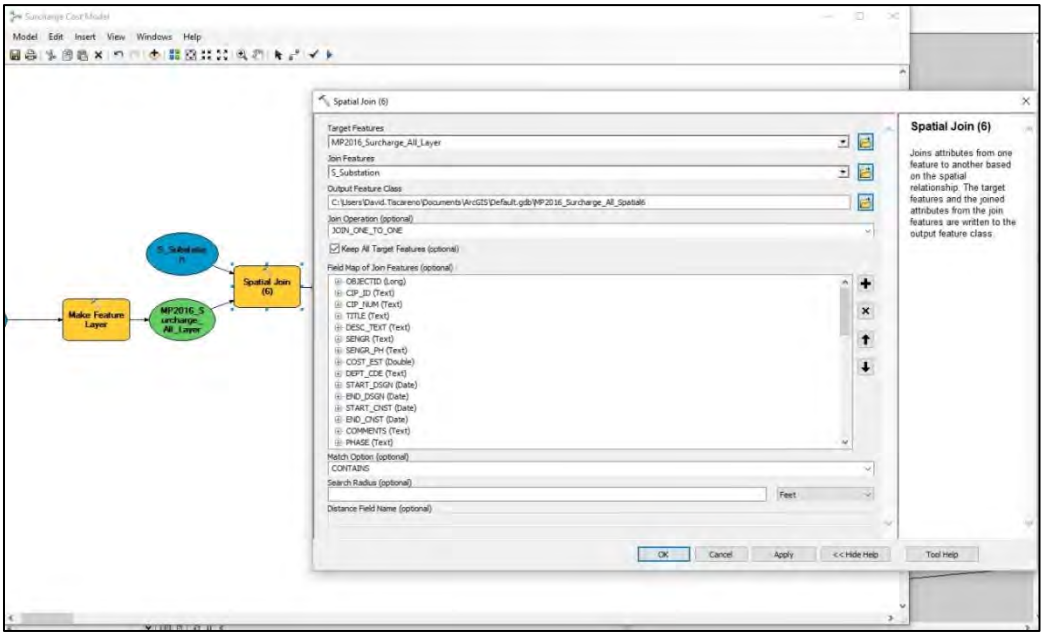
**FIGURE 3 – MAKE FEATURE LAYER TOOL**




**Substation Spatial Join:** After establishing which projects to analyze through the "Make Feature Layer" tool, the "Spatial Join (Analysis)" tool was used to quantify desired information residing within a geographic boundary. The Spatial Join (Analysis) tool was used to spatially join the SDG&E "S_Substaion" data with the resulting output of the Make Feature Layer selection criteria. This Spatial Join tool is used to geographically select all the substations found

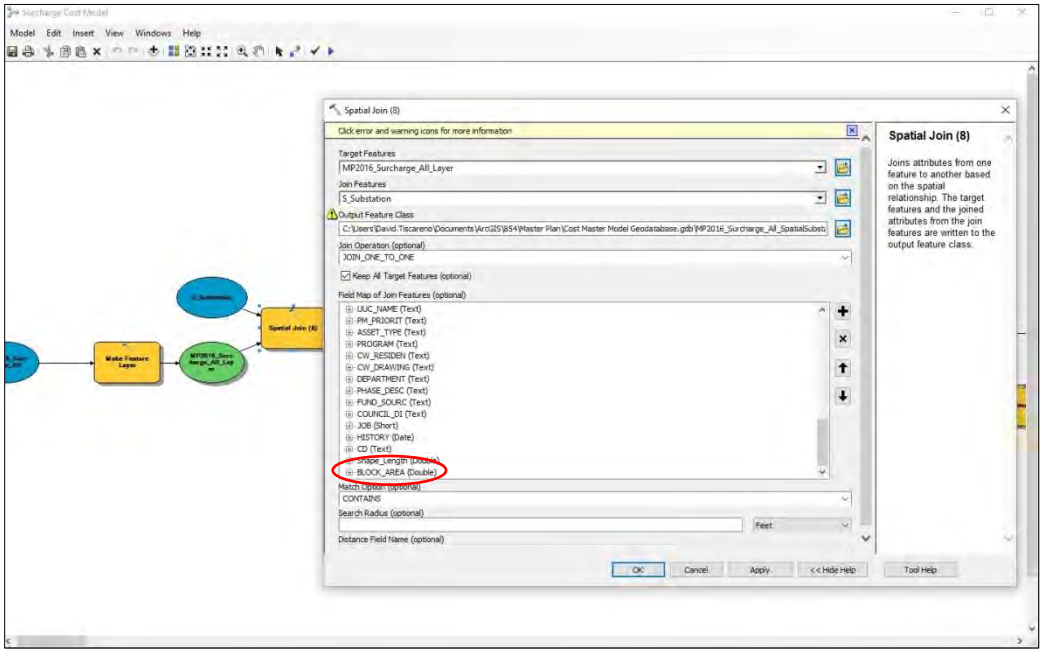
within the City project block boundaries and create a tally field showing the quantities found within each respective project block.

**FIGURE 4 – SUBSTATION SPATIAL JOIN**




Within the Spatial Join tool dialogue box the "Shape_Area" field was manually renamed to "BLOCK_AREA" in the "Field Map of Join Features" section as shown in Figure 5 circled in red. The "Field Map of Join Features" section shows the fields contained within the joining layer that will be added to the Target Feature's attribute table. By default, the resulting tally field created after the analysis is named Join_Count, and is added to the attribute table after the analysis is processed. This field name will be manually changed to "SUB_Count" within the next Spatial Join tool's dialogue box as shown in the next section.

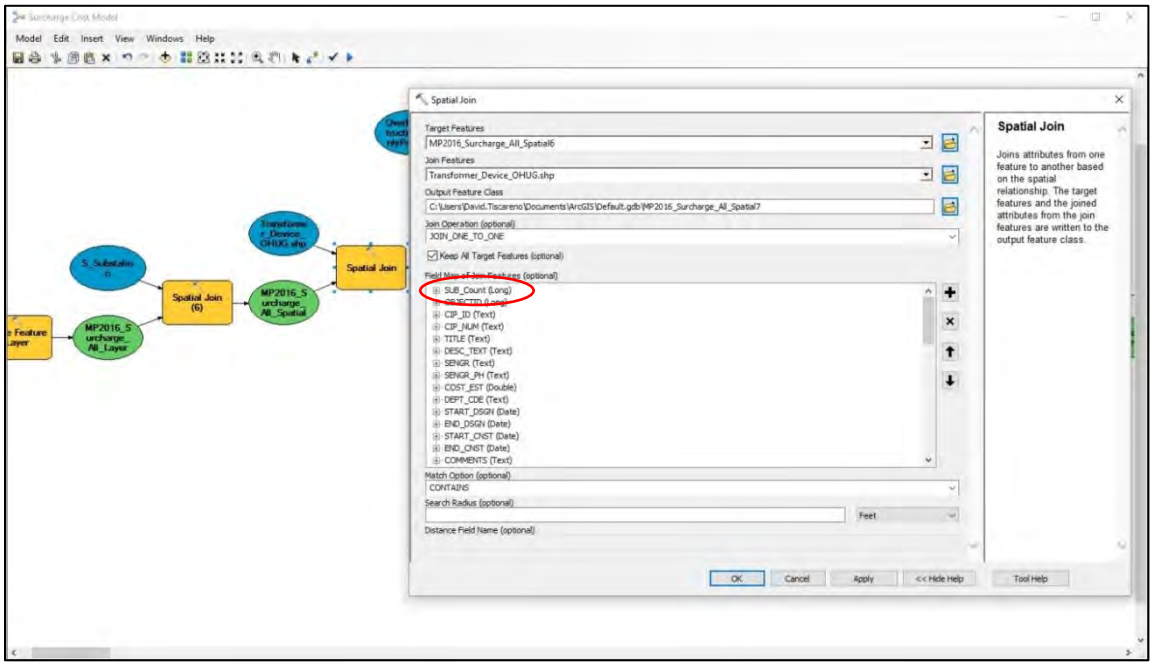
**FIGURE 5 – BLOCK AREA NAME CHANGE**




**Transformer Device Spatial Join:** The Spatial Join (Analysis) tool was used to spatially join the "Transformer_Device_OHUG" layer created from the SDG&E "Transformer" layer with the resulting output of the previous spatial join tool used for the SDG&E Substations. This tool is used to geographically select all the transformers found within the City project block boundaries and create a tally field showing the quantities found within each respective block. As discussed in the Substation section, the newly created "Join_Count" field resulting from the Spatial Join operation was manually changed to "SUB_Count" in this dialogue box under the "Field Map of Join Features" section as circled in red in Figure 6. In addition, the "TARGET_FID" field, which is also created by default after every spatial join, along with the OBJECTID and was manually deleted from this section. Within this section the "CustCount_" field was manually renamed "Meters" and its Merge Rule was set to "Sum". The merge rule parameter can be set by right-clicking on the field. The "OBJECTID" and "SEU_GIS_EL" fields were also deleted from the list of fields to be joined as they were not needed for the evaluation.

Again, by default the new resulting tally field of this spatial join will be named "Join_Count" and will be added to the attribute table after the analysis is processed along with another "TARGET_FID" field. This field name will be manually changed to "XFMR_Count" within the next Spatial Join dialogue box, and the "TARGET_FID" field will be deleted as shown in the next section. This manual naming process is continued throughout.

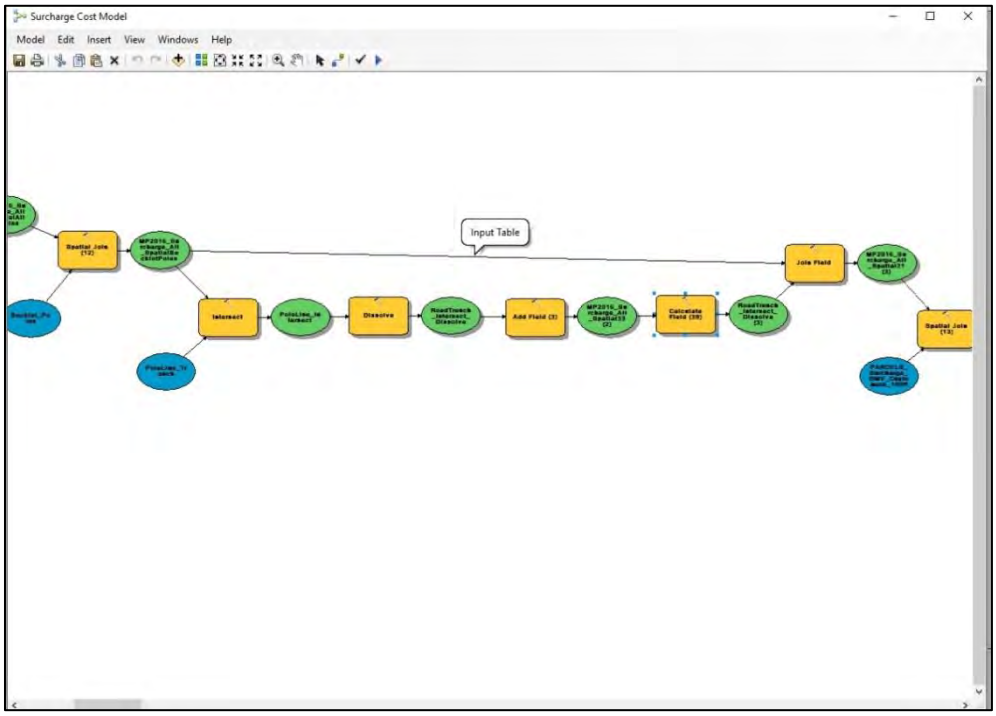
**FIGURE 6 – TRANSFORMERS SPATIAL JOIN**




**Distribution Poles, Alley Poles, and Backlot Poles Spatial Join:** The OverheadStructure_Distr_Stub, Alley_Poles, and Backlot_**Poles** layers were spatially joined following the same process as the Substation and Transformer spatial joins discussed above. The "SUBTYPECD", "numCIR", "numTL", "hasHVTL", "hasSec", and "hasUG" fields were deleted under the "Field Map of Join Features". The fields containing these counts were renamed OH_Poles, ALLEY_Poles, and Backlot Poles, respectively.

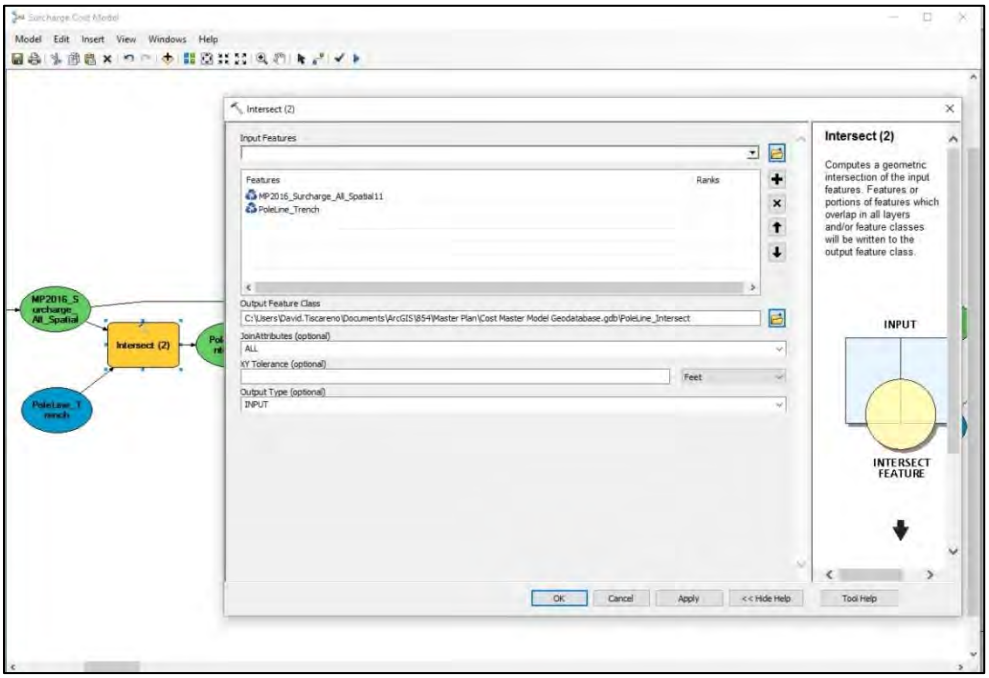
**PoleLine Trench Spatial Join:** Numerous tools were required in order to tally the lengths of pole lines found within each project block as shown below.

**FIGURE 7 – POLE LINE QUANTITY SUMMARY**



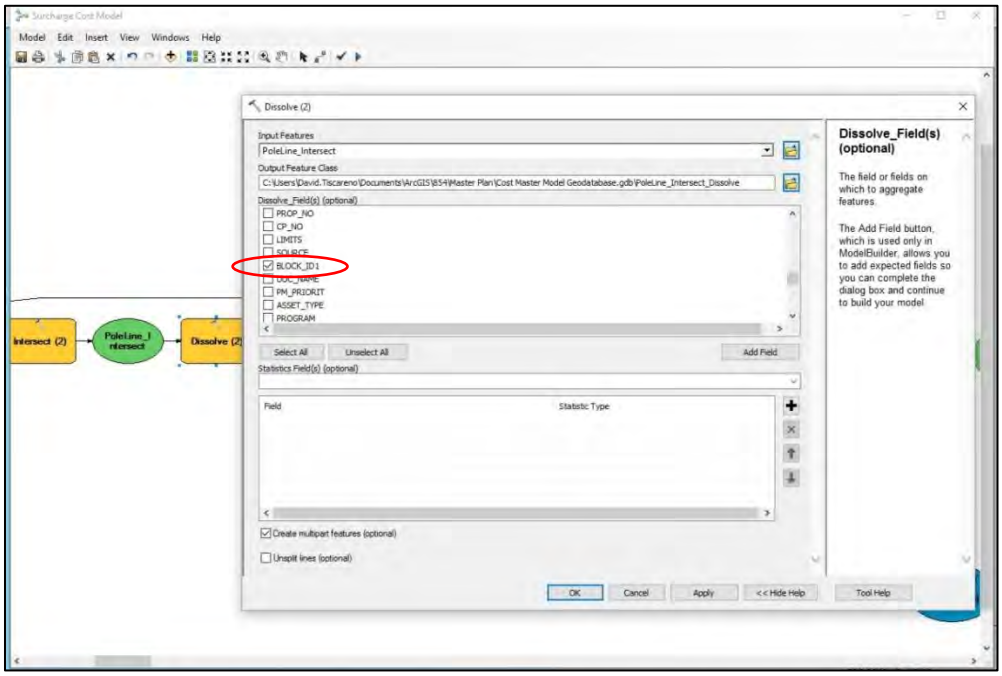

The "Intersect (Analysis)" tool was first used to establish which inputs were to be analyzed:

**FIGURE 8 – INTERSECT TOOL**



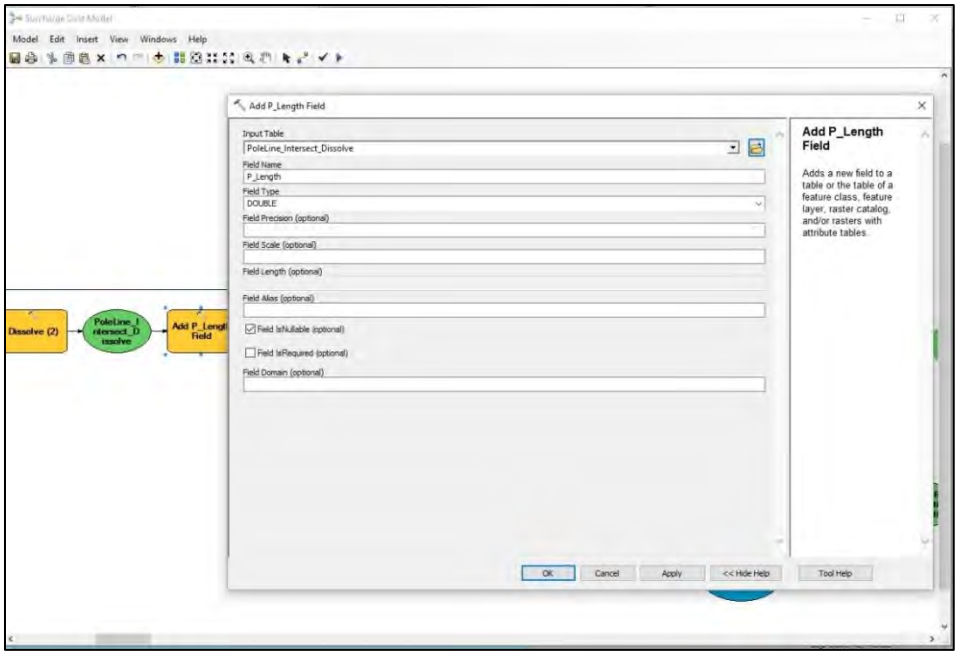

The "Dissolve (Data Management)" tool was then used to establish which feature or field the information should be condensed into. The "BLOCK_ID" field was selected as shown:

**FIGURE 9 – DISSOLVE TOOL**



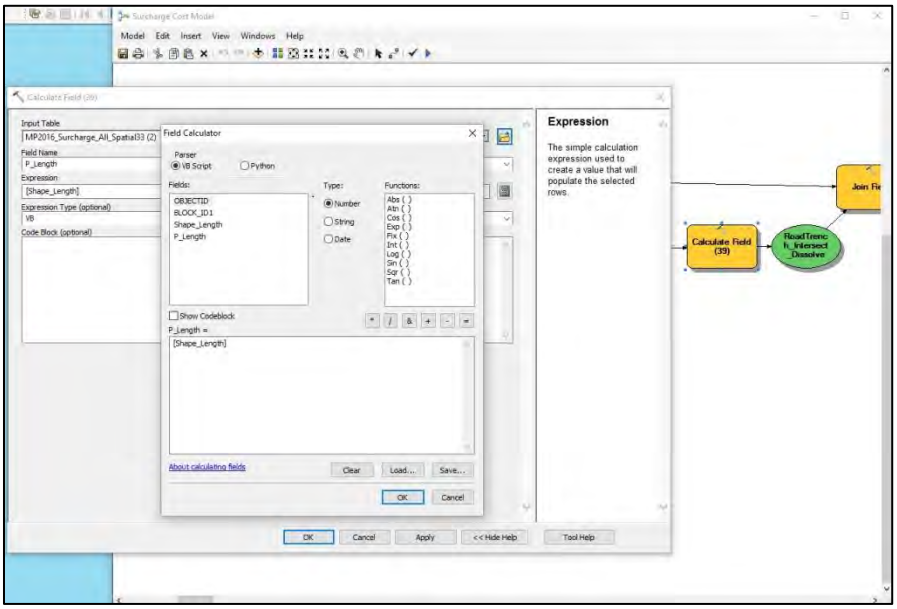

The "Add Field (Data Management)" tool was used to create the tally field to place the calculated lengths and was named "P_Length":

**FIGURE 10 – ADD FIELD TOOL**



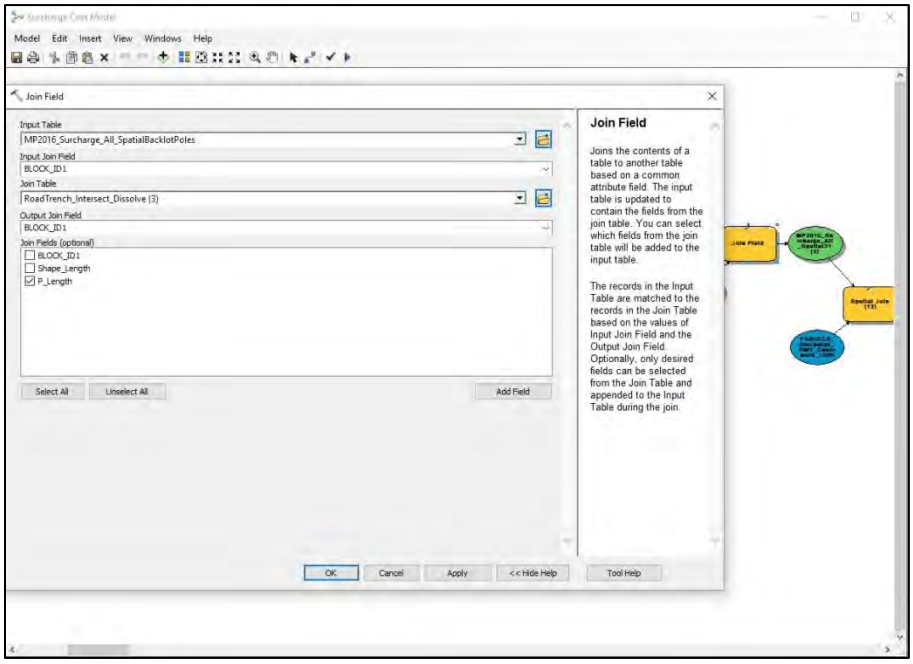

The "Calculate Field (Data Management)" tool was then used to assign the calculated lengths to the "P_Length" field. In the expression section P_Length was set to equal the "Shape_Length" field created from the intersection tool.

**FIGURE 11 – POLE LINE CALCULATE FIELD TOOL**




Once, the pole line lengths have been populated by Project Block ID, the information was combined to the original attribute table using the "Join Field (Data Management)" tool.

**FIGURE 12 – JOIN FIELD TOOL**




**Parcels Spatial Join:** The Spatial Join (Analysis) tool was used to spatially join the "PARCELS_SD_Subtype1_100ft_Dissol" layer created as described in Section II with the resulting output of the previous Pole Line merge and Join Field tool. This tool is used to geographically select all the assumed remaining Parcels requiring undergrounding conversions found within the City project block boundaries and tally quantities by respective project block.

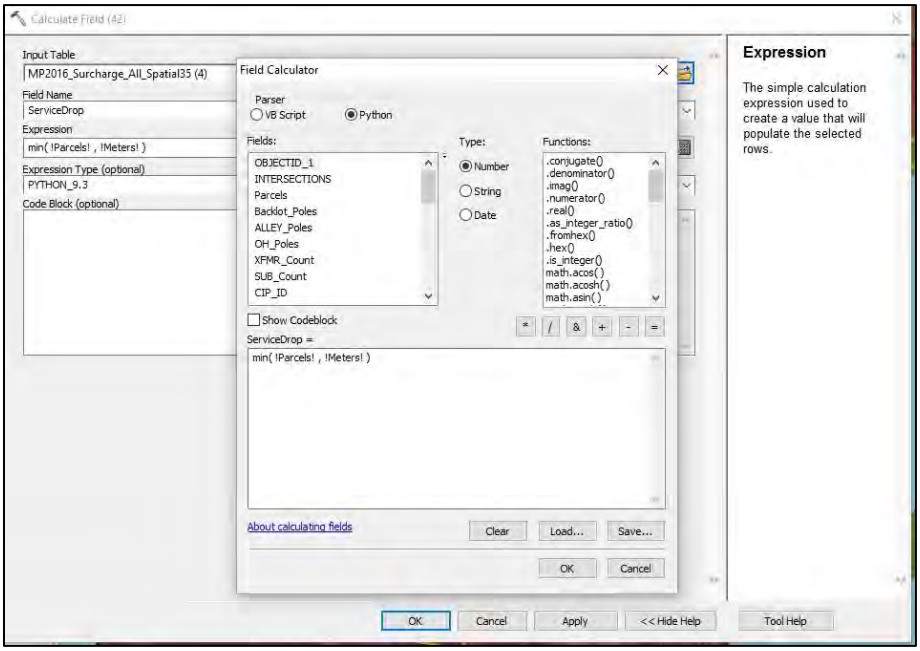
**Roads_Intersections Spatial Join:** The Spatial Join (Analysis) tool was used to spatially join the "ROADS_INTERSECTION_SurchargeAll_Clip.lyr" data with the resulting output of the previous spatial join tool used for the parcels. This tool is used to geographically select all the intersections found within the City project block boundaries and create a tally field showing the quantities found within each respective project block.

**Alter Field:** The alter field tool was used next in the sequence to change the name of the "Join_Count" field resulting from the spatial join above to "Intersections".

**Delete Field:** The delete field tool was used to manually select which fields to remove from the City's UUP data attribute table to only show desired fields**.** The fields shown may be customized upon City preference.

**ServiceDrop (Add Field Tool and Calculate Field Tool):** The add field tool was used to create the "ServiceDrop" field. To populate the ServiceDrop field, the "Calculate Field" tool was introduced and the expression type for computing the procedure used was switched to PYTHON_9.3. The following code was used to populate the "ServiceDrop" field with the lowest value found between "Parcels" and "Meters" fields. Due to areas with apartment complexes, the lower number between parcels and meters in an area was deemed as a better representation of required service drops. Additionally, since there cannot be situations where there are fewer meters than parcels in an area, the lowest value was used to mitigate those scenarios.

**FIGURE 13 – PYTHON CODING**

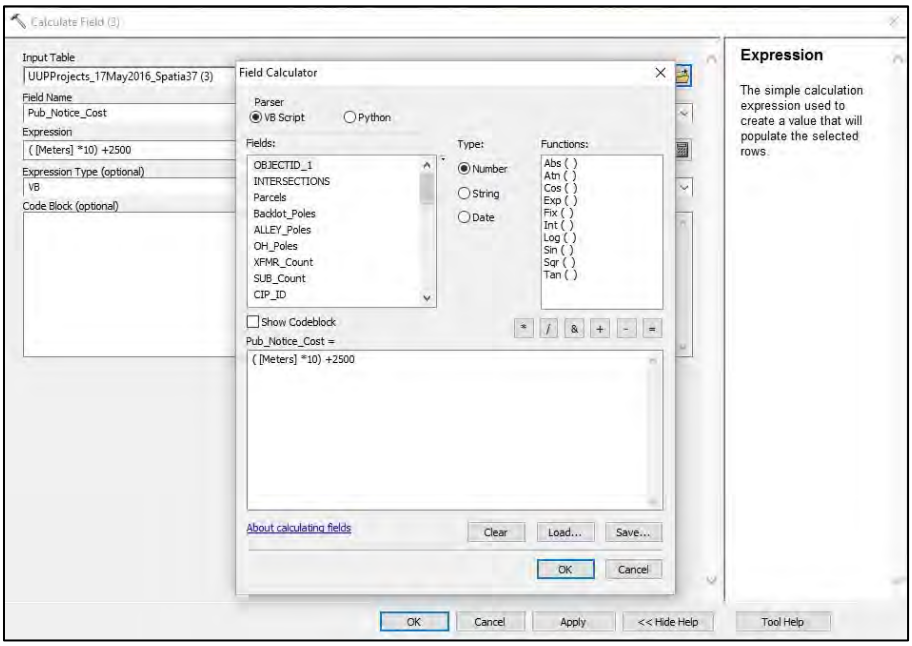


## VI. COST:

Once all cost factor quantities required for analysis were accounted for by the methods described in section 4, repetitive "Add field" tools and "Calculate Field" tools were used to generate the overall project costs. One example is described below:

**Public Notifications (Add Field Tool and Calculate Field Tool):** To account for the cost of public notifications, the "Pub_Notice_Cost" field was created using the "Add Field" tool. To populate this field, the "Calculate Field" tool was used. Within the "Calculate Field" tool the default VB Script expression was used to process the calculation. The calculation selected the "Meters" field to be multiplied by 10 (unit cost per Block Cost Estimator) and to an additional lump sum of 2,500 as shown below.

**FIGURE 14 – BEFORE AND**

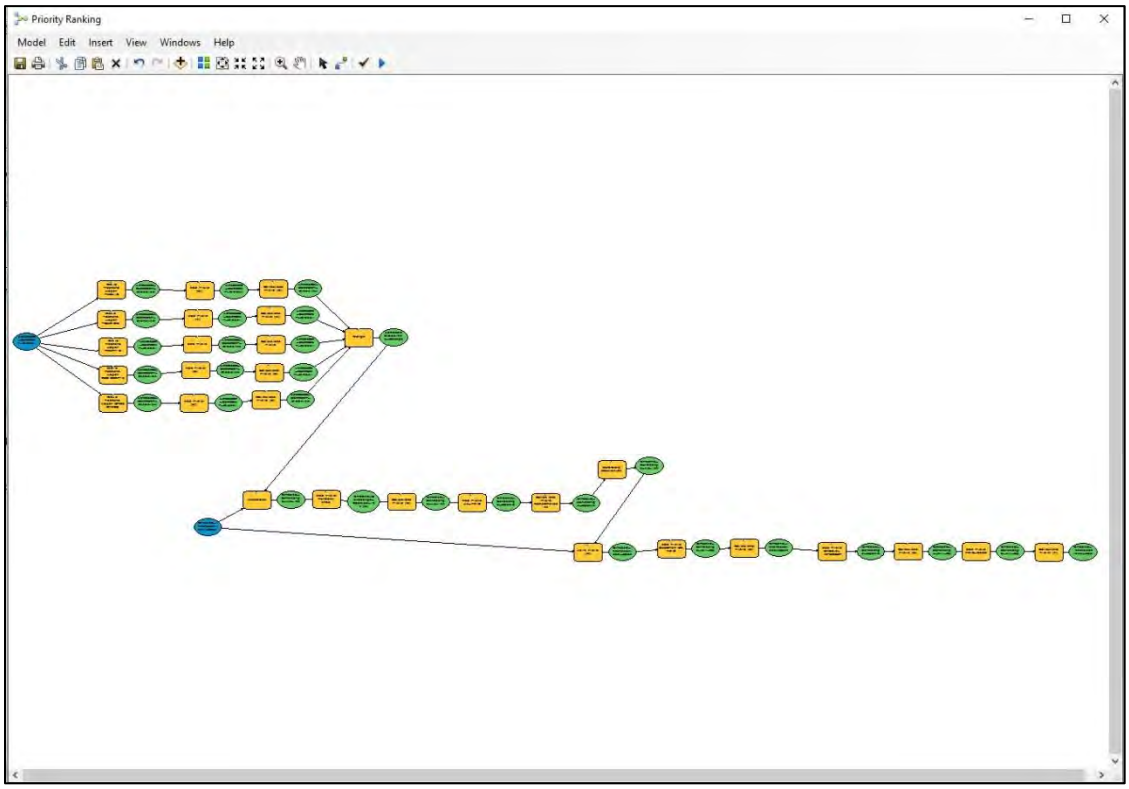



This process was continued for all the cost factors described within the report using the respective unit costs contained in the Sample Block Cost Estimate in Appendix 5.

# VII. PRIORITY ALGORITHM:

To develop the Priority Algorithm, the following processes and tools were used.

**FIGURE 15 – PRIORITY ALGORITHM**

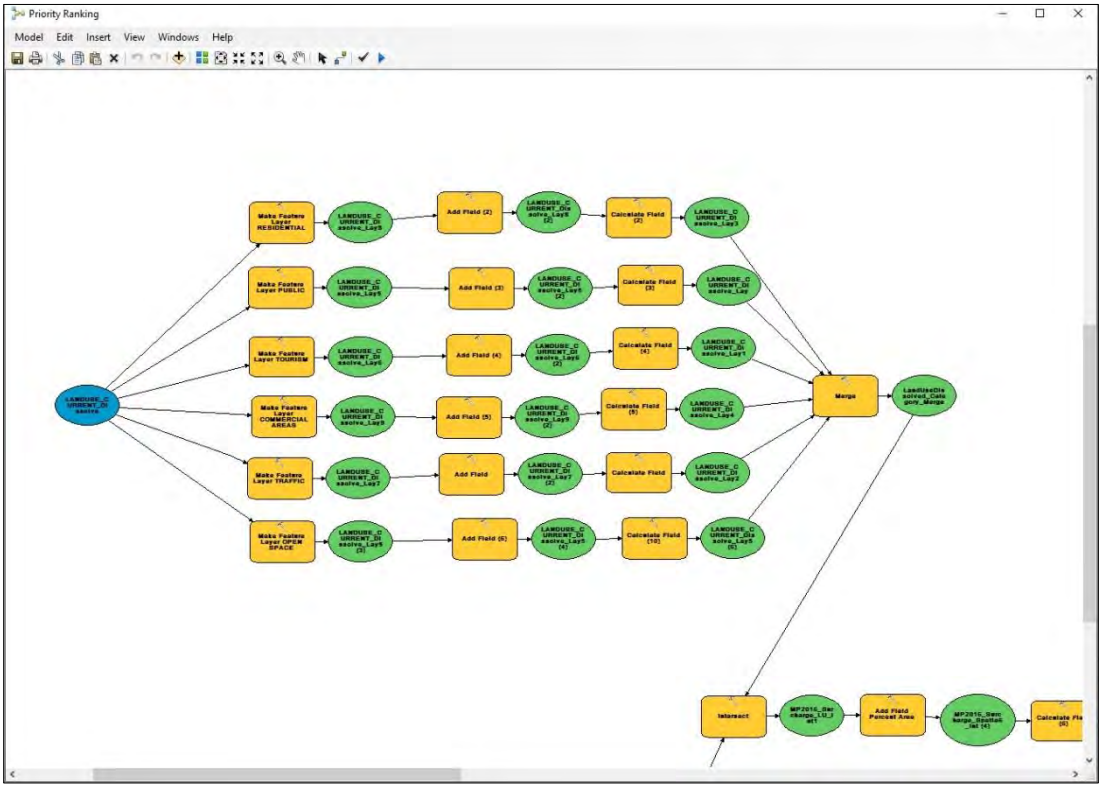



## A. Land Use Rank

**Make Feature Layer:** Six (6) Make Feature Layer tools were used to categorize each land use classification from SANDAG's LANDUSE_CURRENT layer into 6 land use groups: Residential Public, Tourism, Commercial, High Traffic, and Open Space. Having over one hundred land classes can quickly and easily become confusing.

Appendix 7
GIS Development Process

**FIGURE 16 – LAND USE GROUPING**




The table below shows the grouping for the varying classifications found within the SANDAG layer as shown in the report.

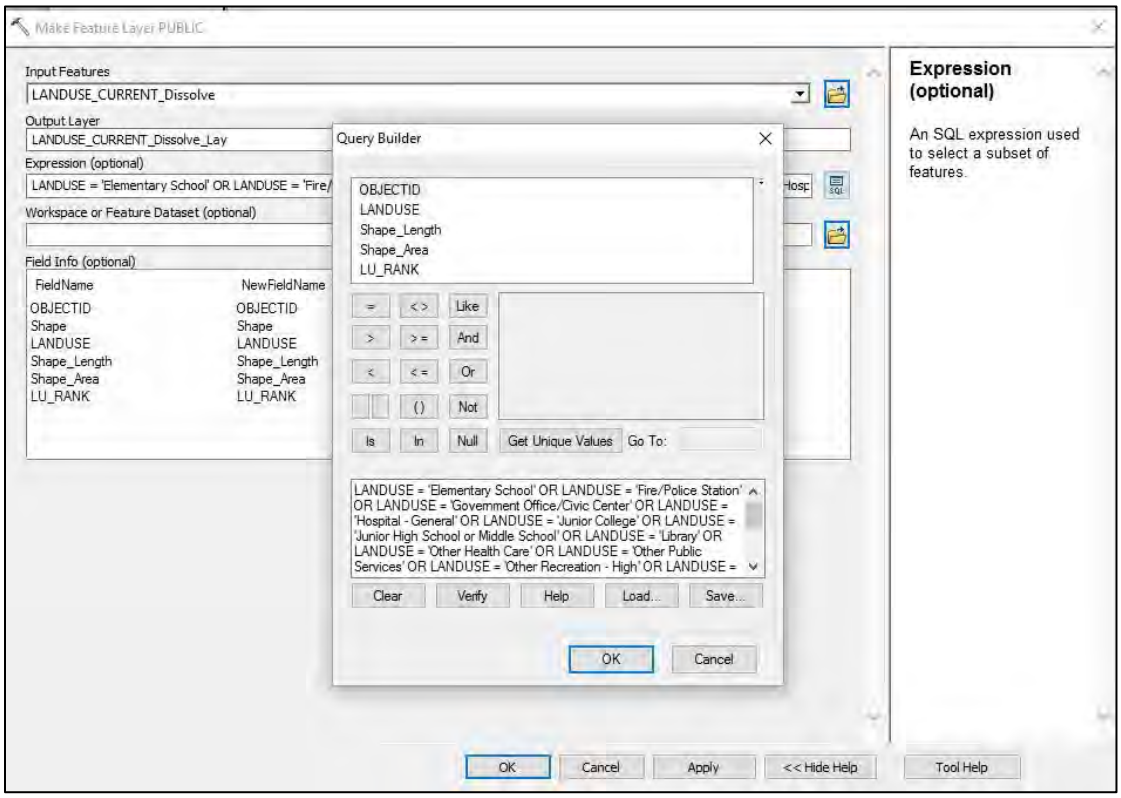
**TABLE 1 – LAND USE CATEGORIES**

| CATEGORY GROUP | LAND USE CATEGORIES | PRIORITY RANKING |
|---|---|---|
| RESIDENTIAL | Dormitory, Mobile Home Park, Multi-Family Residential, Multi-Family Residential Without Units, Neighborhood Shopping Center, Single Family Detached, Single Family Multiple-Units, Single Family Residential, Single Family Residential Without Units, Single Room Occupancy Units (SROs), Spaced Rural Residential, Residential Recreation, Community Shopping Center. | 10 |
| PUBLIC FACILITIES | Elementary School, Fire/Police Station, Government Office/Civic Center, Junior High School or Middle School, Library, Other Public Services, Other Recreation – High, Other Recreation – Low, Other School, Park – Active, Park and Ride Lot, Post Office, Public/Semi-Public, Rail Station/Transit Center, School District Office, Senior High School. | 8 |
| TOURISM | Beach – Active, Beach – Passive, Resort, Stadium/Arena, Tourist Attraction, Bay lagoon, lake/Reservoir, Resort, Convention Center. | 6 |

| CATEGORY GROUP | LAND USE CATEGORIES | PRIORITY RANKING |
|---|---|---|
| COMMERCIAL AREA | Arterial Commercial, Automobile Dealership, Industrial Park, Communications and Utilities, Golf Course, Hotel/Motel, Industrial Park, Junkyard/Dump/ Landfill, Military, Office, Other Retail Trade and Strip Commercial, Parking Lot – Structure, Parking Lot – Surface. | 4 |
| HIGH TRAFFIC | Commercial Airport, Freeway, Other Transportation, SDSU/CSU San Marcos/UCSD, Junior College, Light Industrial, Rail Station/Transit center. | 2 |
| OPEN-SPACE | Landscape Open-Space, Open-Space Park or Preserve, Undevelopable Natural Area, Intensive Agriculture, Cemetery. | 0 |

Below is an example of how the classifications were grouped within Model Builder for the priority algorithm.

**FIGURE 17 – CLASSIFICATION SELECTION**

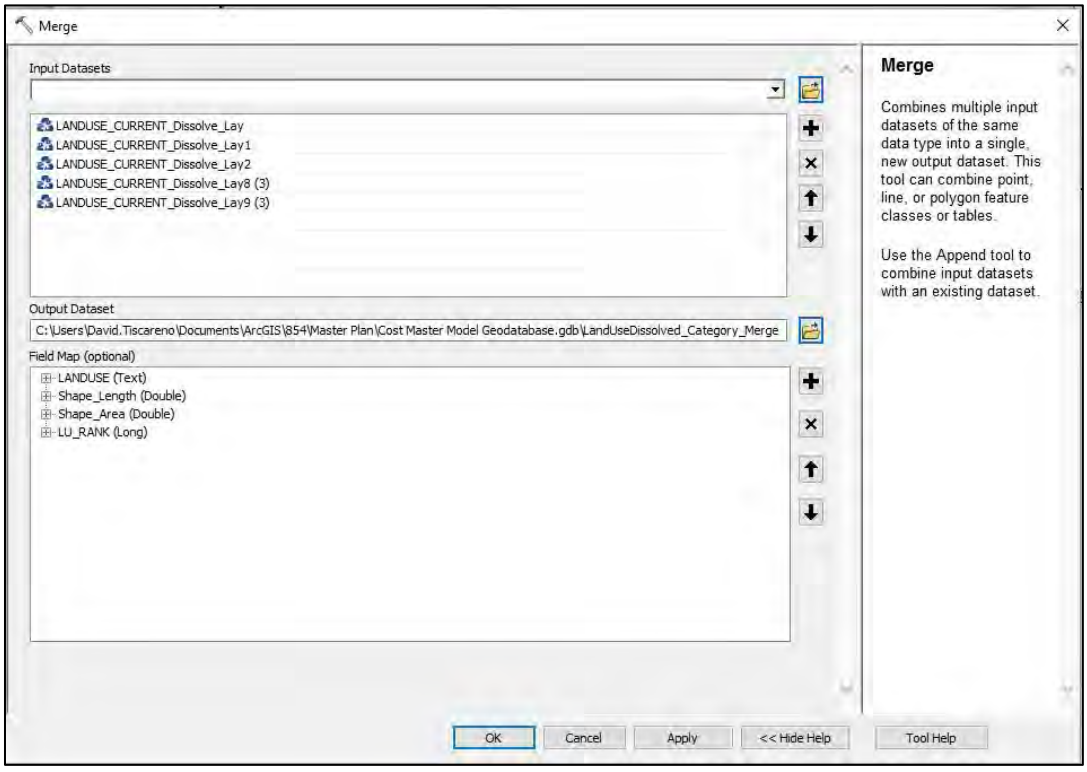



**Add Field:** The "Add Field" tool was then used to create the LU_RANK field to assign each land use classification group an individual priority rank. The same LU_RANK was field was created for all 6 groups.

**Calculate Field:** The "Calculate Field" tool was used to assign a corresponding rank to each group category. The corresponding rank values for each group are shown in the table above.

**Merge Tool:** The Merge tool was then used to combine the differing LU_RANK field values into a single column along with their corresponding values for classification group.

**FIGURE 18 – MERGE TOOL**

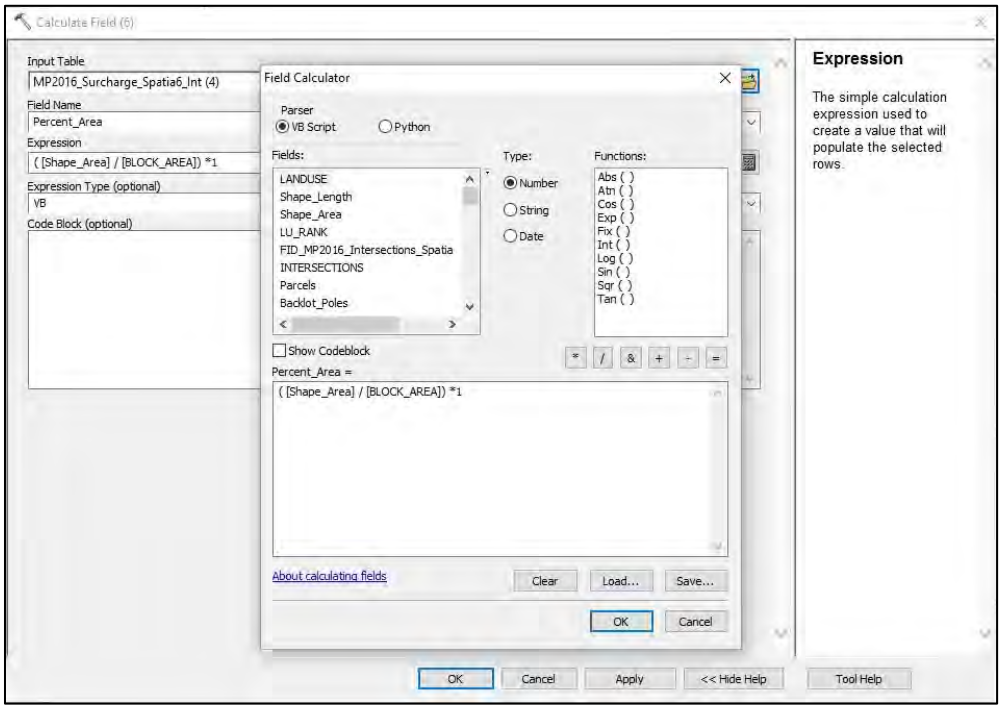



**Intersect Tool:** Once the LU_RANK fields were merged into a single column, the field was added to the attribute table created from the previous cost algorithm containing the City's list of Surcharge project blocks through the use of the "Intersect" tool.

## B. Land Use Priority Value

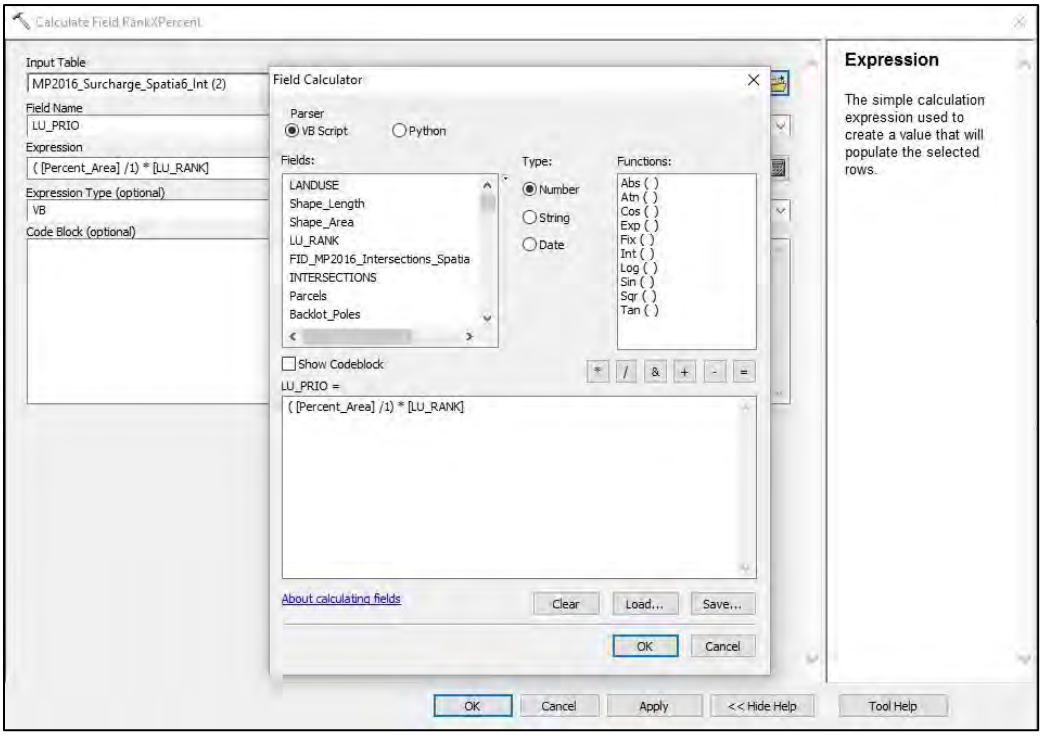
**Percent Area:** The "Add Field" tool was used to create the "Percent Area" field as a place holder for calculating the area of land use as a percent within each Surcharge project block. The value was obtained using the calculate field tool to divide the shape area which was created by the land use field by the BLOCK_ AREA field for the area of the Surcharge project block. The BLOCK_AREA field name was changed under the cost algorithm's development (was originally also named "Shape_Length"). This adds a new field to the output for percent of area covered using the following calculation for the value (New Area/Old Area)*100).

**FIGURE 19 – PERCENT AREA FIELD CALCULATOR**



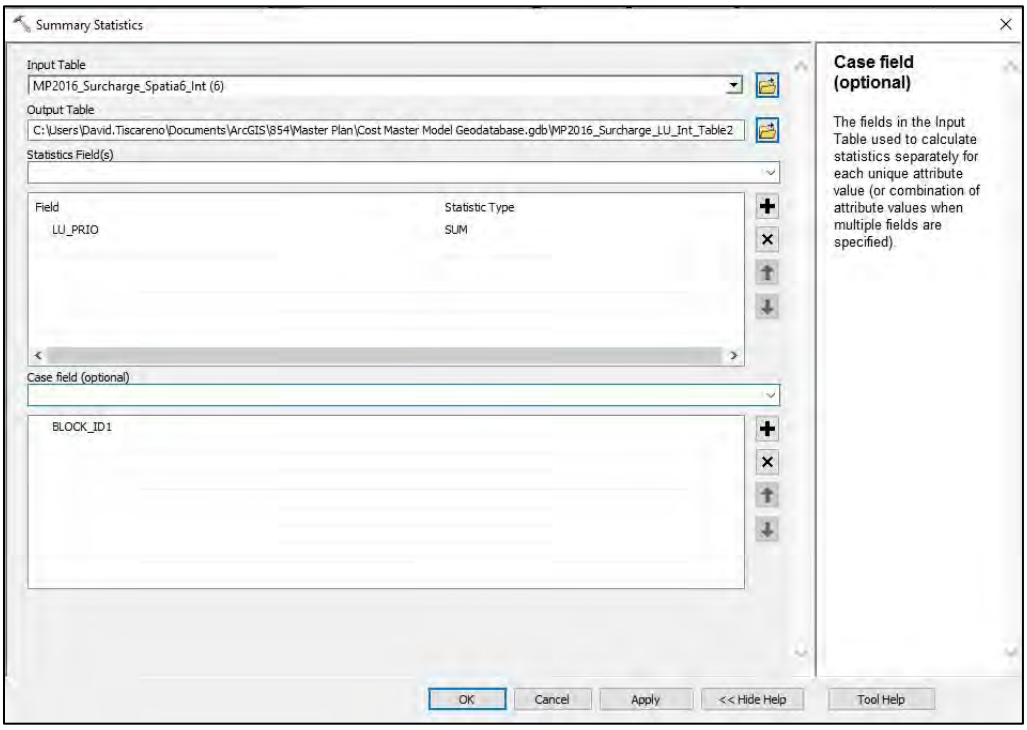

**LU_PRIO Field:** The "Add Field" tool was used to create the LU_PRIO field and the value was calculated by multiplying the LU_RANK field with the Percent Area field.

**FIGURE 20 – LU_PRIO FIELD CALCULATOR**



**Summary Statistics and Join Field:** To find the sum of all of the differing land use percentages and associated rank values per project block, the Summary Statistics tool was used. The LU_PRIO field was inputted as the statistics field and the "sum" command was chosen from the drop down menu in the Statistics type section. The case field designates which field to summarize the operation by (i.e Block ID - the tool recognizes all fields from the previous intersect tool output). This tool creates an independent attribute table.

**FIGURE 21 – SUMMARY STATISTICS TOOL**




The "Join Field" tool was then used to combine the sum of the statistics analysis "SUM_LU_PRIO" to the main attribute table (from the Cost Algorithm). The Block ID field (found in both attribute tables) was used as the reference column for joining the tables via the "Input Join Field" section. The resulting output field was set to remain the same as the Input. Under the Join Fields section, the "SUM_LU_PRIO" field was selected to join these values to the main attribute table and arrange the values by Block ID as shown below.

**FIGURE 22 – JOIN FLOW**

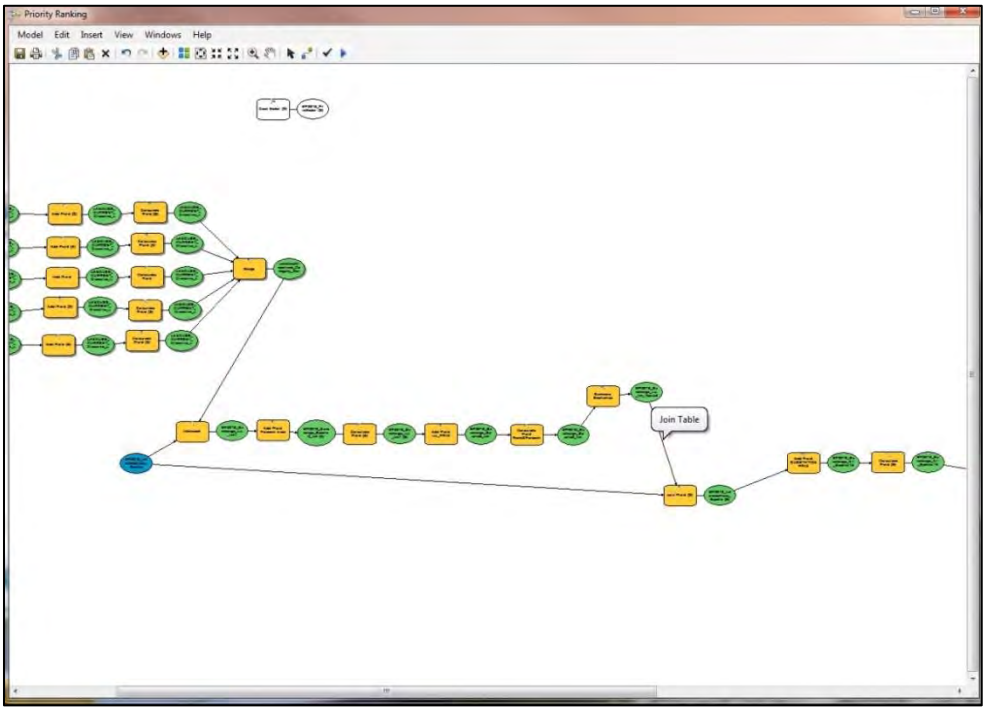
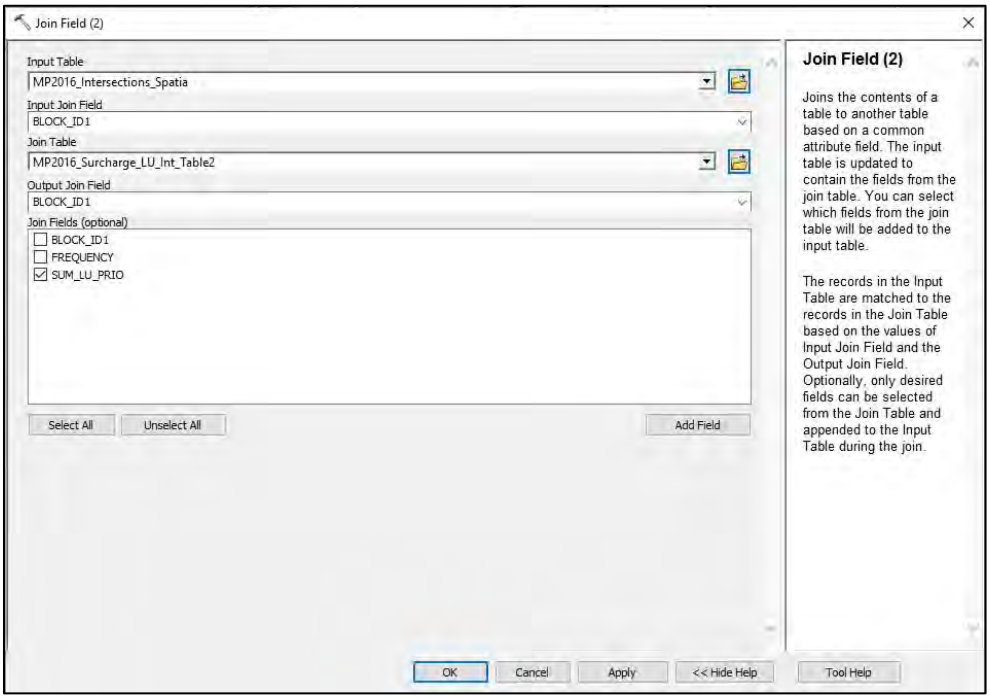



**FIGURE 23 – JOIN FIELD TOOL**




## C. Substation Priority

The SUB_PRIO field was created and inputted with values by multiplying the SUB_Count field by 10, which was established as the priority rank associated for project blocks with substations.

## D. Best Public Benefit Priority

This BEST_PUB_PRIO is currently left blank. City will manually enter a priority value between 0 and 10 per City's discretion for project blocks that best serves public benefit as described in Section IX.D of the UUP Master Plan Update – Factors and Method report.

## E. Priority Rank

The PRIO_RANK field was created for the summation of all the priority values in the analysis by project block.

# APPENDIX 8

## CITY OF SAN DIEGO SANDAG GIS WAREHOUSE DATA

Included herein is the complete SANDAG GIS data information used in updating the new Utility Undergrounding Master Plan's development.

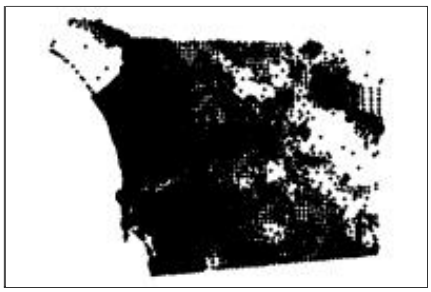
# SANDAG

TABLE OF CONTENTS

# SECTION 1

## ADDRESS_APN

# ADDRESS_APN



## Tags

Addresses, Parcel Address, SITUS Address, Assessor Parcel Number (APN), San Diego County

## Summary:

This dataset comprises SITUS address points (as opposed to owner or mailing addresses) for jurisdictions within the County of San Diego. Addresses include the corresponding Assessor Parcel Number (APN), address type, placement location, and US National Grid (USNG) value.

## Feature Type: Point

## Number of Records: 1156525

## Publication Date: 2015-12-01

## Date of Data (Temporal Period Extent): 2015-12-01

## Extent: Publication date

### Extent in Longitude Latitude

**North** 33.510378
**West** -117.592906 **East** -116.081303
**South** 32.530595

### Extent in the item's coordinate system

**North** 2129332.531345
**West** 6152307.000053 **East** 6613087.990891
**South** 1775442.363798

## Description:

SITUS address points within the County of San Diego with corresponding Assessor Parcel Number (APN). The dataset includes address fields, x y coordinates, US National Grid coordinates, address type, and placement location (e.g. structure or centroid) for each feature. These are SITUS addresses. That is, they refer to the officially assigned address for a tax parcel. They may not be the house or mailing address or the owner address of the property.Address points in this layer are derived from two sources: The County of San Diego's Assessor's Office Master Property Record (MPR) and address points provided to SanGIS by the addressing

authority in each jurisdiction (18 cities and the County of San Diego). Not all jurisdictions provide address points to SanGIS. SanGIS attempts to eliminate duplicate points so that only one address-APN combination is present for each parcel (although there may be multiple addresses on the property). Priority is given to the SanGIS address point over the one derived from the MPR under the assumption that the points from the addressing authority of each jurisidiction is more current. Address point source is indicated in the ASOURCE field.SanGIS is in the process of updating address point locations to more accurately reflect the SITUS address. Where possible, address points are being located to the primary structure on the property. This is a long term, ongoing effort and many points have not yet been relocated. Address points are tagged with a placement location of 'Review' until they are reviewed and edited accordingly. The location of the address point is indicated in the PLACEMENT_LOCATION attribute. All points derived from the Assessor's MPR are placed at the centroid of the parcel.Refer to field descriptions under Resources for a full listing.

## Credits:

SanGIS using legal recorded data provided by the County Assessors Office and addressing authorities from the 18 incorporated cities in the County.

## Use Limitation:

Data is generalized and created for use in regional projects. Please refer to SanGIS data end user use agreement and disclaimer which is available at the following: http://www.sangis.org/Legal_Notice.htm.The address layer is not expected to be a complete inventory of every address in the County. Data is available only as provided to SanGIS. Addresses are SITUS address points - not structure or owner or mailing addresses. Apartment addresses are not included. Most condominium and mobile home addresses are not resolved to the actual structure location.

## Topics and Keywords

Topic Categories: Location Planning Cadastral Structure

Themes:

Address, Assessor Parcel Number (APN), location, SITUS

Places:

California, County of San Diego, Carlsbad, Coronado, Chula Vista, Del Mar, El Cajon, Encinitas, Escondido, Imperial Beach, Lemon Grove, La Mesa, National City, Oceanside, Poway, San Diego, San Marcos, Solana Beach, Santee, Vista

## Resource Details:

Status: On Going
Type: Vector
Update Frequency: Weekly
Next Update: 2014-08-29

## Spatial Reference System:

Type: Projected
Reference: GCS_North_American_1983
Projection: NAD_1983_StatePlane_California_VI_FIPS_0406_Feet

Identifier: 2230
Codespace: EPSG
Version: 7.9.4

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(858) 874-7000

### Distributor

SanGIS
5510 Overland Ave., Suite 230
San Diego, California. 92123
Data Librarian
Data Librarian
webmaster@sangis.org
(858) 874-7000

## Distribution Ordering Instructions:

Refer to SanGIS website (http://www.sangis.org/services/index.html) to obtain further information on mapping and data extraction services available from SanGIS.

## Online Ordering Description:

Downloadable as shapefile from http://www.sangis.org/download/index.html (as Address_APN) under the Address Category.

## Fields:

### Overview:

This dataset contains address points within the County of San Diego. This dataset is under constant revision. The key field is Assessor Parcel Number (APN). Other key attributes are (see individual attribute definitions for further details): Placement_Location (Structure, Entrance, Centroid, Unknown, Review), Address_Type (e.g. Alias Address, Pole/Telephone/Meter/Power, State Property - this field is currently under development).

Address are provided in separate fields by five major address parts: Number, pre-direction, street name, street type, post-direction

## Citation:

Additional information, if available, can be found on the SanGIS web site Documents\Policies page (http://www.sangis.org/documents/policies.html)

**FID (OID)**
Internal feature number.

**ADDRUNIT (String)**
Address unit number such as suite number,

**ADDRFRAC (String)**
Fractional portion of address number (e.g. 1/2)

**Y_COORD (Double)**
Y or Northing coordinate, in feet, for address point placement location. Coordinate system is California State Plane, NAD 83, Zone 6, US Survey Feet.

**APN (String)**
Assessor Parcel Number (APN) - 10 digit

**ADDRJUR (String)**
Official address jurisdiction. The incorporated area where the address is located.

Code; Jurisdiction
CB; Carlsbad
CN; County of San Diego (unincorporated area)
CO; Coronado
CV; Chula Vista
DM; Del Mar
EC; El Cajon
EN; Encinitas
ES; Escondido
IB; Imperial Beach
LG; Lemon Grove
LM; La Mesa
NC; National City
OC; Oceanside
PW; Poway
SD; San Diego
SM; San Marcos
SO; Solana Beach
ST; Santee
VS; Vista

**Shape (Geometry)**
Feature geometry.

**ADDRNAME (String)**

Official street or road name as assigned by the jurisdiction in which the road segment is located. Abbreviated to 30 characters if official road name (not including pre- and post-direction and suffix) is more than 30 characters long.

**USNG (String)**

US National Grid full coordinate for actual point location.

**STATE (String)**

Two letter state code for address location. All points are SITUS addresses in San Diego County therefore the STATE code should always be CA. Assigned this value for all points with ASOURCE = S. For points with ASOURCE = M, value is from Assessor's Master Property Record.

**X_COORD (Double)**

X or Easting coordinate, in feet, for address point placement location. Coordinate system is California State Plane, NAD 83, Zone 6, US Survey Feet.

**ROADSEGID (Double)**

Unique key to road segment in ROADS_ALL (and other ROAD) layers. The unique road segment that the address falls on. Used to determine road name values. Will always be blank or null for points with ASOURCE = M

**ADDRSFX (String)**

Abbreviated street name suffix. That is, the part of the road name that describes the type of street. Four letter abbreviations are used according to the SanGIS standards manual as follows:

ALY: ALLEY
ARC: ARCADE
AVE: AVENUE
BP: BIKEPATH
BLVD: BOULEVARD
BRG: BRIDGE
BYP: BYPASS
CSWY: CAUSEWAY
CIR: CIRCLE
CTE: CORTE
CT: COURT
CV: COVE
CRES: CRESCENT
XING: CROSSING
DR: DRIVE
DRWY: DRIVEWAY
EXPY: EXPRESSWAY
EXT: EXTENTION
FRY: FERRY
FWY: FREEWAY
GLEN: GLEN
HWY: HIGHWAY
INTR: INTERCHANGE
LN: LANE
LOOP: LOOP
MALL: MALL
PKY: PARKWAY

PASS: PASS
PATH: PATH
PL: PLACE
PLZ: PLAZA
PT: POINT
PTE: POINTE
RAMP: RAMP
RD: ROAD
ROW: ROW
SQ: SQUARE
ST: STREET
TER: TERRACE
TRL: TRAIL
TKTL: TRUCKTRAIL
WALK: WALK
WAY: WAY

**ADDRPOSTD (String)**

Post direction of the road. That is, the direction following the road name.
N: North
NE: Northwest
NW: Northwest
S: South
SE: Southeast
SW: Southwest
E: East
W: West

**ADDRPDIR (String)**

Pre-direction of the road. That is, the direction preceeding the road name.
N: North
NE: Northwest
NW: Northwest
S: South
SE: Southeast
SW: Southwest
E: East
W: West

**ADDRNMBR (Double)**

Address street number of the property.

**ASOURCE (String)**

Address source code Domain
Code; Description
M; Assessor Master Property Record
S; SanGIS

**ADDRZIP (String)**

Address ZIP code. For points with ASOURCE = S this value is derived from an overlay of the ZIPCODE layers. For points with ASOURCE = M the value is from the Assessor's Master Property Record.

**COMMUNITY (String)**

The common (but not necessarily the official) name of the community encompassed by the given zip code. The name of the post office associated with the given zip code. For points with ASOURCE = S, this is retrieved from the post office name in the ZIPCODE layer. For ASOURCE = M points the name comes from the Master Property Recrod.

**PLACEMENT_ (String)**

PLACEMENT_LOCATION
Placement location domain.
Code; Description
S; Structure
E; Entrance
C; Centroid
U; Unknown
R; Review

NOTE: Points are shown with code = R until they have been visually checked for placement location. Most points with code = R are at parcel centroid until moved.

All points with ASOURCE = M will be located at parcel centroids.

**PARCELID (Double)**

**ADDRESS_TY (String)**

ADDRESS_TYPE
Address Type Domain
Code; Description
A; ATM, Automatic Teller Machine
B; Comfort Station
C; Cable TV
D; SD Unified Port Dist Tidelands
E; Elec. Meter, Pedestal, Temp Sv
F; Parks and Recreation
G; Federal Property, Caltrans
H; Fire Department
I; Irrigation System; Meter
J; County Property
K; Kiosk
L; Stop Light, Street Light
M; State Property, Caltrans
P; Pacbel Equip, Sub Station, etc
Q; Police Department
R; Retaining Wall, Crib Wall
S; Sign
T; Pole, Telephone, Meter, Power
V; Other City Departments
X; Alias Address

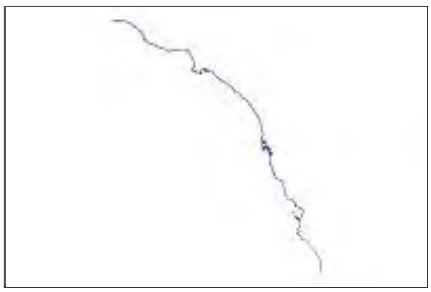
## Metadata Last Update: 2015-12-01

Regional GIS Data Warehouse (RGDW) Publication Stylesheet 1.4

# SECTION 2

## COASTLINE

# coast



## Tags
There are no tags for this item.

## Summary:
There is no summary for this item.

## Feature Type: Line

## Number of Records: 3

## Publication Date:
Date not provided by data owner.

## Date of Data (Temporal Period Extent):
Date not provided by data owner.

## Extent:

### Extent in Longitude Latitude

**North** 34.465954
**West** -119.770189 **East** -116.299816
**South** 30.909211

### Extent in the item's coordinate system

**North** 2477097.500000
**West** 5500000.000000 **East** 6546038.000000
**South** 1200000.000000

## Description:
There is no description for this item.

## Credits:
There are no credits for this item.

## Use Limitation:
There are no access and use limitations for this item.

## Resource Details:

Status: Not specified
Type: Vector
Update Frequency: Not specified
Next Update: Not specified

## Spatial Reference System:

Type: Projected
Reference: GCS_North_American_1983
Projection: NAD_1983_StatePlane_California_VI_FIPS_0406_Feet

Identifier: 2230
Codespace: EPSG
Version: 7.11.2

## Contacts:

Point of Contact Not specified

## Fields:

**__FID (OID)**
Internal feature number.

**Shape (Geometry)**
Feature geometry.

**SD (SmallInteger)**

## Metadata Last Update: 2015-04-21

Regional GIS Data Warehouse (RGDW) Publication Stylesheet 1.4

# SECTION 3

## COUNCIL_DISTRICTS

# Council_Districts

## Tags

City of San Diego, Council District

## Summary:

City of San Diego Council Districts Boundaries (adopted August 25, 2011). Commencing in the year following the year in which the national decennial census is taken under the direction of the United States Congress at the beginning of each decade, the Redistricting Commission shall adopt plans that redistrict the City into nine (9) Council districts designated by numbers 1 to 9 inclusive.

## Feature Type: Polygon

## Number of Records: 9

## Publication Date: 2015-01-15

## Date of Data (Temporal Period Extent):

Date not provided by data owner.

## Extent: publication date

### Extent in Longitude Latitude

**North** 33.114842
**West** -117.285640 **East** -116.901637
**South** 32.533548

### Extent in the item's coordinate system

**North** 1986043.899943
**West** 6244554.959914 **East** 6360824.055459
**South** 1775474.017278

## Description:

On August 25, 2011, the Redistricting Commission of the City of San Diego voted 7-0 to adopt the Final Redistricting Plan, which specifies the boundaries of districts for San Diego City Council. The Final Plan complies with the redistricting criteria and legal requirements of San Diego City Charter sections 5 and 5.1; the U.S. Constitution; the federal Voting Rights Act of 1965; and related cases and statutes. The Redistricting Commission also added a 9th Council District, as

directed by the voters of the City of San Diego in a Charter amendment enacted in 2010. The Redistricting Commission of the City of San Diego is vested with sole and exclusive authority to adopt plans that specify the boundaries of districts for San Diego City Council. San Diego City Charter sections 5 and 5.1 were enacted by the voters in 1992 to create an independent Redistricting Commission to draw City Council districts in compliance with the law.

## Credits:

City of San Diego

## Use Limitation:

None

## Topics and Keywords

Topic Categories: Boundaries Location

Themes:

Council District

Places:

City of San Diego

## Resource Details:

Status: Completed
Type: Vector
Update Frequency: Not specified
Next Update: Not specified

## Spatial Reference System:

Type: Projected
Reference: GCS_North_American_1983
Projection: NAD_1983_StatePlane_California_VI_FIPS_0406_Feet

Identifier: 2230
Codespace: EPSG
Version: 7.11.2

## Contacts:

Point of Contact

City of San Diego Redistricting Commission
City of San Diego Redistricting Commission

redistricting_2010@sandiego.gov
(619) 533-3060

### Distributor

City of San Diego
Michael Klein
GIS Analyst
mklein@sandiego.gov
619-236-6588

## Distribution Ordering Instructions:

Available from SanGIS

## Fields:

### Overview:

The Redistricting Commission considered and relied upon traditional redistricting criteria in drawing and adopting new City Council district boundaries. The Redistricting Commission also added a 9th Council District, as directed by the voters of the City of San Diego in a Charter amendment enacted in 2010.

### Citation:

DISTRICT field refers to the Council District

**__FID (OID)**
Internal feature number.

**OBJECTID (Double)**
Internal feature number.

**Shape (Geometry)**
Feature geometry.

**NAME (String)**
**PHONE (String)**
**WEBSITE (String)**
**PERIMETER (Double)**
**DISTRICT (Double)**
District Number

**AREA (Double)**
**SHAPE_AREA (Double)**
Area of feature in internal units squared.

**SHAPE_LEN (Double)**

## Metadata Last Update: 2015-04-03

Regional GIS Data Warehouse (RGDW) Publication Stylesheet 1.4

# SECTION 4

## FREEWAYS

# freeways

## Tags
There are no tags for this item.

## Summary:
There is no summary for this item.

## Feature Type: Line

## Number of Records: 2038

## Publication Date:
Date not provided by data owner.

## Date of Data (Temporal Period Extent):
Date not provided by data owner.

## Extent:

### Extent in Longitude Latitude

**North** 34.040406
**West** -118.103009 **East** -114.522698
**South** 31.145412

### Extent in the item's coordinate system

**North** 2322209.500000
**West** 6000211.500000 **East** 7085026.000000
**South** 1273586.875000

## Description:
There is no description for this item.

## Credits:
There are no credits for this item.

## Use Limitation:
There are no access and use limitations for this item.

## Resource Details:

Status: Not specified
Type: Vector
Update Frequency: Not specified
Next Update: Not specified

## Spatial Reference System:

Type: Projected
Reference: GCS_North_American_1983
Projection: NAD_1983_StatePlane_California_VI_FIPS_0406_Feet

Identifier: 2230
Codespace: EPSG
Version: 7.11.2

## Contacts:

Point of Contact Not specified

## Fields:

**__FID (OID)**
Internal feature number.

**Shape (Geometry)**
Feature geometry.

**NM (String)**
**FXNM (String)**
**TXNM (String)**
**IYR (SmallInteger)**
**SD (SmallInteger)**

## Metadata Last Update: 2015-04-29

Regional GIS Data Warehouse (RGDW) Publication Stylesheet 1.4

# SECTION 5

## HARBOR_BAY

# Harbor_Bay

## Tags

Bay, San Diego

## Summary:

The dataset provides polygon features for water bodies of type B (bays) in San Diego County.

## Feature Type: Polygon

## Number of Records: 2

## Publication Date: 2012-07-19

## Date of Data (Temporal Period Extent): 2008-01-01

## Extent: The spatial extent of this dataset is San Diego County. The temporal extent is variable.

### Extent in Longitude Latitude

**North** 32.802608
**West** -117.255068 **East** -117.096431
**South** 32.589996

### Extent in the item's coordinate system

**North** 1872867.290011
**West** 6252825.579855 **East** 6300950.000010
**South** 1795932.999982

## Description:

This dataset contains polygons of bays in San Diego. This dataset is a subset of the SanGIS Lake layer (HYD_LAKES), where type B water bodies (i.e. bays) have been selected. This layer is to supplement lakes and lagoon layers available to the public.

## Credits:

SanGIS

## Use Limitation:

Data is generalized and created for use in regional projects. Please refer to SanGIS data end user use agreement and disclaimer which is available at the following: http://www.sangis.org/Legal_Notice.htm.

## Topics and Keywords

Topic Categories: Environment Inland Waters

Themes:

Bay, Surface Water

Places:

County of San Diego, San Diego

## Resource Details:

Status: Completed
Type: Vector
Update Frequency: As Needed
Next Update: Not specified

## Spatial Reference System:

Type: Projected
Reference: GCS_North_American_1983
Projection: NAD_1983_StatePlane_California_VI_FIPS_0406_Feet

Identifier: 2230
Codespace: EPSG
Version: 7.11.2

## Contacts:

Point of Contact

Data Librarian, Data Librarian
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5510 Overland Avenue, Suite 230
San Diego, CA. 92123

webmaster@sangis.org
(858) 874-7000

Distributor

SanGIS
5510 Overland Avenue, Suite 230

San Diego, CA. 92123
Data Librarian
Data Librarian
webmaster@sangis.org
(858) 874-7000

## Distribution Ordering Instructions:

Refer to SanGIS website (http://www.sangis.org/services/index.html) to obtain further information on mapping and data extraction services available from SanGIS.

## Online Ordering Description:

This dataset is available for download as shapefile  from the SanGIS website.

## Fields:

### Overview:

The HARBOR_BAY dataset contains the following fields (detailed more under individual field definitions):
NAME: Water body name
DESCRIPTION: Description of type code
TYPE: Type of water body code (Type B only)

### Citation:

None

**__FID (OID)**
Internal feature number.

**NAME (String)**
Water body name if known or appropriate.  Not all water bodies have assigned names.

**Shape (Geometry)**
Feature geometry.

**TYPE (String)**
Type of water body code
Code, Description
B, Bay
IS, Island
L, Lake
LG, Lagoon
P, Pond
R, Reservoir

**SHAPE_Area (Double)**
Area of feature in internal units squared.

**DESCRIPTIO (String)**
Description of type code

Code, Description
B, Bay
IS, Island
L, Lake
LG, Lagoon
P, Pond
R, Reservoir

**SHAPE_LEN (Double)**

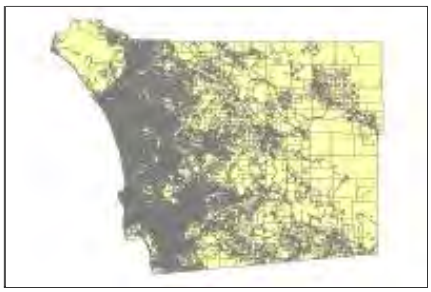
## Metadata Last Update: 2015-04-02

Regional GIS Data Warehouse (RGDW) Publication Stylesheet 1.4

# SECTION 6

## LANDUSE_CURRENT

# LANDUSE_CURRENT



## Tags

land use, landuse, SANDAG, SANDAG GIS, San Diego, San Diego County, San Diego region

## Summary:

Existing land use. Used for mapping and analysis. Used for base year of the SANDAG Regional Growth Forecasts.

## Feature Type: Polygon

## Number of Records: 82919

## Publication Date: 2016-02-02

## Date of Data (Temporal Period Extent): 2015-01-01

## Extent: San Diego region

### Extent in Longitude Latitude

**North** 33.511553
**West** -117.597986 **East** -116.080156
**South** 32.530161

### Extent in the item's coordinate system

**North** 2129760.000000
**West** 6150763.738000 **East** 6613437.000000
**South** 1775304.094000

## Description:

SANDAG's Land Layers are created for use in the Regional Growth Forecast to distribute projected growth for the San Diego region to suitable subareas. These land layers include existing land use, planned land use, land ownership, land available for development, and lands available for redevelopment and infill. The land layers inventory is updated when new information is available. Many of these data sets are built from the San Diego Geographic Information Source (SanGIS) landbase. The land use information has been updated continuously since 2000 using aerial photography, the County Assessor Master Property Records file, and other ancillary information. The land use information was reviewed by each of the local jurisdictions and the County of San Diego to ensure its accuracy. Although

this inventory contains more categorical detail and has better positional accuracy than previous land use inventories, users should be aware that this data may be too generalized for some local planning projects. Since each General Plan/Community Plan Land Use Elements have their own individualized way of categorizing their future land use designations, an aggregate planned land use code was devised (PLU). Each General Plan/Community Plan land use designation was cross-walked to a SANDAG PLU code. Adjacent parcel polygons with the same land use have been aggregated (dissolved) into a single feature.The Landuse featureclass was dissolved from SANDAG's Land Layer featureclass ludu2015.

## Credits:

SANDAG Technical Services - GIS, SANDAG Land Layers Inventory

Mapping Source: SanGIS landbase (i.e. parcels), SANDAG, County Assessor's Master Property Records file, Cleveland National Forest, Bureau of Land Management (BLM), State Parks, other public agency contacts, and local agency review.

## Use Limitation:

Please read the SANDAG Data Disclaimer first before using SANDAG data.

## Resource Details:

Status: Completed
Type: Vector
Update Frequency: Annually
Next Update: Not specified

## Spatial Reference System:

Type: Projected
Reference: GCS_North_American_1983
Projection: NAD_1983_StatePlane_California_VI_FIPS_0406_Feet

Identifier: 2230
Codespace: EPSG
Version: 8.6.2

## Contacts:

### Point of Contact

John Hofmockel, GIS Analyst
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401 B Street
San Diego, CA. 92101

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(619) 699-6986

### Distributor

SANDAG
401 B Street
San Diego, CA. 92101
John Hofmockel
GIS Analyst
John.Hofmockel@sandag.org
(619) 699-6986

## Distribution Ordering Instructions:

Downloadable from the SANDAG/SanGIS Regional GIS Data Warehouse.

## Online Ordering Description:

http://www.sandag.org/index.asp?subclassid=100&fuseaction=home.subclasshome

## Fields:

### Overview:

lu is the 4-digit SANDAG land use code. landuse is the brief description of the land use

### Citation:

SANDAG Land Layers Inventory

**__FID (OID)**
Internal feature number.

**Shape (Geometry)**
Feature geometry.

**lu (SmallInteger)**
Existing land use. SANDAG four-digit land use code.

http://www.sandag.org/resources/maps_and_gis/gis_downloads/downloads/codes/land_use_codes.html

**Shape_Area (Double)**
Area of feature in internal units squared.

**landuse (String)**
Land use description

http://www.sandag.org/resources/maps_and_gis/gis_downloads/downloads/codes/Land_Use_Definitions.html

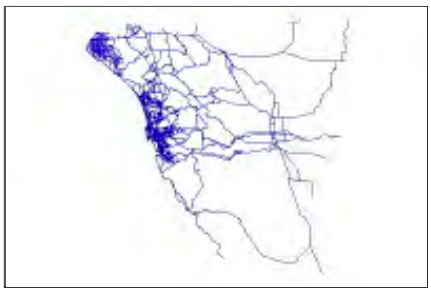
**SHAPE_LEN (Double)**

## Metadata Last Update: 2016-05-10

# SECTION 7

## MAJOR_ROADS

# RD_MAJOR_SG



## Tags
Mojor Roads

## Summary:

Defining existing major roads

## Feature Type: Line

## Number of Records: 12302

## Publication Date:
Date not provided by data owner.

## Date of Data (Temporal Period Extent):
Date not provided by data owner.

## Extent:

### Extent in Longitude Latitude

**North** 34.092030
**West** -118.118599 **East** -114.480558
**South** 31.145204

### Extent in the item's coordinate system

**North** 2340997.500074
**West** 5995823.500028 **East** 7097477.500128
**South** 1273586.875057

## Description:

SANDAG GIS

## Credits:

SANDAG Regional Transportation Improvement Program and Regional Transportation Plan, San Diego Geographic Information Source (SanGIS) centerline road file. General Plan circulation elements of the local jurisdictions; Caltrans State Highway inventory.

## Use Limitation:
There are no access and use limitations for this item.

## Resource Details:

Status: Not specified
Type: Vector
Update Frequency: Not specified
Next Update: Not specified

## Spatial Reference System:

Type: Projected
Reference: GCS_North_American_1983
Projection: NAD_1983_StatePlane_California_VI_FIPS_0406_Feet

Identifier: 2230
Codespace: EPSG
Version: 7.11.2

## Contacts:

Point of Contact Not specified

Distributor

San Diego Association of Governments (SANDAG)
John Hofmockel
Senior Research Analyst
jho@sandag.org

## Fields:

Overview:
FID Internal feature number
Shape Feature Geometry

NM Road name
FXNM From cross-street name
TXNM To cross-street name
IYR Initial year that the road opened to traffic (1990 base year)
IFC Functional class
SD Road location

Citation:
IFC Initial functional classification, where:
1 = Freeway
2 = Prime Arterial
3 = Major Arterial
4 = Collector
5 = Local Collector
6 = Rural Collector

7 = Rural Light Collector
8 = Local Street
9 = Ramp

SD Road location
0 = Outside of San Diego County
1 = Inside of San Diego County

**SD (SmallInteger)**
Road location

**IYR (OID)**
Initial year that the road opened to traffic (1990 base year)

**SHAPE (SmallInteger)**
Feature geometry.

**IFC (Geometry)**
Functional class (Refer to IFC in Overview Citation)

**Shape (String)**
Feature geometry.

**NM (String)**
Road name

**FXNM (String)**
From cross-street name

**TXNM (SmallInteger)**
To cross-street name

## Metadata Last Update: 2015-04-29

Regional GIS Data Warehouse (RGDW) Publication Stylesheet 1.4

# SECTION 8

## MUNICIPAL_BOUNDARIES

# MUNICIPAL_BOUNDARIES

## Tags

Cities, Municipal Boundary, Jurisdictional Boundary, County of San Diego

## Summary:

Used as an overlay to locate and identify parcels that correspond to their specific jurisdiction

## Feature Type: Polygon

## Number of Records: 61

## Publication Date: 2015-08-14

## Date of Data (Temporal Period Extent): 2015-08-14

## Extent: Published August 2015

### Extent in Longitude Latitude

**North** 33.511553
**West** -117.597986 **East** -116.080156
**South** 32.530161

### Extent in the item's coordinate system

**North** 2129759.999313
**West** 6150763.740169 **East** 6613437.000301
**South** 1775304.095101

## Description:

A geographic representation of the municipal boundaries created from fund numbers which are provided by the County Auditor/Controller's Property Tax Services (PTS) Division.

## Credits:

County Assessor

## Use Limitation:

Resolutions, legal descriptions, and recorded maps and documents are the final authority of any boundary disputes.

## Topics and Keywords

Topic Categories: Boundaries Location

Themes:

Cities, Municipal Boundary, Jurisdictional Boundary, County of San Diego

Places:

Cities, Municipal Boundary, Jurisdictional Boundary, County of San Diego

## Resource Details:

Status: Completed
Type: Vector
Update Frequency: Annually
Next Update: 20160801

## Spatial Reference System:

Type: Projected
Reference: GCS_North_American_1983
Projection: NAD_1983_StatePlane_California_VI_FIPS_0406_Feet

Identifier: 2230
Codespace: EPSG
Version: 7.9.4

## Contacts:

Point of Contact

Tony Pocina, Senior GIS Analyst
County of San Diego; Assessors Office; Mapping
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San Diego, CA. 92101

anthony.pocina@sdcounty.ca.gov
619-531-5873

Distributor

County of San Diego; Assessors Office; Mapping
1600 Pacific Highway Room 103
San Diego, CA. 92101

Tony Pocina
Senior GIS Analyst
anthony.pocina@sdcounty.ca.gov
619-531-5873

## Distribution Ordering Instructions:

Refer to SanGIS website (http://www.sangis.org/services/index.html) to obtain further information on mapping and data extraction services available from SanGIS

## Fields:

### Overview:

This polygon shows the areal extents of the Municipal Jurisdiction boundaries within San Diego County.

### Citation:

Assessors Office

**__FID (OID)**
Internal feature number.

**Shape (Geometry)**
Feature geometry.

**NAME (String)**
Municipal Jurisdictions

**CODE (String)**
CODE

**Shape_Area (Double)**
Area of feature in internal units squared.

**SHAPE_LEN (Double)**

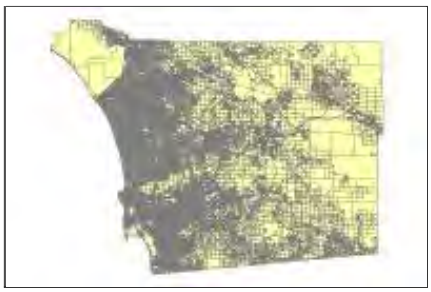
## Metadata Last Update: 2015-08-20

Regional GIS Data Warehouse (RGDW) Publication Stylesheet 1.4

# SECTION 9

## PARCELS

# PARCELS



## Tags

Parcel, San Diego County, Parcels, Property, Tax Parcel, Boundary

## Summary:

Polygons representing current taxable parcels in San Diego County and some non-taxable parcels. Taxable parcels that cannot be represented by a polygon (i.e. possessory interest parcels) may not be shown. This layer contains only those attributes from the Assessor's Master Property Record (MPR) or Parcel Assessment Record (PAR) that have been authorized for release to the public by the Assessor/Recorder/County Clerk's (ARCC) Office.

## Feature Type: Polygon

## Number of Records: 1056679

## Publication Date: 2015-10-05

## Date of Data (Temporal Period Extent): 2015-10-05

## Extent: The spatial extent of this dataset is San Diego County. The temporal extent is variable.

### Extent in Longitude Latitude

**North** 33.511553
**West** -117.597986 **East** -116.080156
**South** 32.530161

### Extent in the item's coordinate system

**North** 2129760.000000
**West** 6150763.738000 **East** 6613437.000000
**South** 1775304.094000

## Description:

Parcels represent taxable pieces of property. A parcel is created by the San Diego County Assessor/Recorder/County Clerk (ARCC) to identify a specific portion of real property that is taxed at a certain rate for a certain owner. Tax parcels are typically the same as a legally subdivided lot but are not necessessarily so. For example, a single owner may own a legally subdivided piece of property but there may be two or more tax parcels covering that property. Legal subdivisions are

shown in the LOTS layer.Parcels are keyed to the Assessor Parcel Number (APN) and the parcel polygon identifier (PARCELID).The SanGIS parcel layers are “stacked” parcels. That means that for any piece of ground there may be multiple parcels. For example, a condominium building in downtown San Diego may have 200 individual condos. Each condo is a separate taxable parcel. All 200 parcels will be associated with the same physical lot on the ground. When the SanGIS parcel layer is created each individual condo has a polygon representing the physical location of the parent parcel. In this example there will be 200 polygons all stacked on top of each other that represent the taxable parcels and each polygon will have the same physical characteristics (shape, size, area, location) – they are, essentially, copies of each other. However, other associated information (owner, document numbers, etc) will be different for each. In this case, each condo unit will have its own parcel number and there will be no single parcel representing the lot on the ground. Besides condominiums there are two other cases where you will see stacked parcels – possessory interest and mobile homes. Possessory interests have Assessor Parcel Numbers (APNs) that start with 76x. A possessory interest (or PI) parcel represents a taxable interest in the underlying, or parent, parcel but not necessarily ownership. For instance, a private company may have an arrangement with a University to operate a business on campus – a coffee shop or gift shop for example. The private business is taxable and is assinged a 76x APN and that APN is associated with the parent parcel which is owned by the University. Possessory intestests do not represent ownership on the parcel, only a taxable interest in the underlying parent parcel.Mobile home parcel APNs start with 77x. In a manner similar to the possessory interests, mobile home owners own their home (coach) but not the underlying property on which the house sits. The actual mobile home is a separate taxable parcel associated with the mobile home park parent parcel. These taxable parcels all have the same polygon as the underlying parent parcel and will show as stacked parcels as well.This dataset contains parcels as shown on the Assessor Parcel Maps (APM). However, parcels shown in this layer may lag that of the official APM by a number of weeks due to how SanGIS is notified of the newly created parcel and the timing of publication of the parcel layer.This dataset contains the parcel polygon and associated parcel information provided by the County ARCC in thier Master Property Record (MPR file) and Parcel Assessment Record (PAR file). In addition to the MPR and PAR data assigned by ARCC, SanGIS may add situs address information if it has been provided by the addressing authority in which the parcel is situated. The situs address information provided by SanGIS may not be the same as the SITUS address data in the MPR.This dataset contains site address information along with owner names and addresses, and other property information. Key fields in this dataset include:Land use information provided in the NUCLEUS_USE_CD field (225 types with a 3-digit domain). The ASR_LANDUSE field is an older version of this field but comprises more generalized land uses (91 types). Generalized land use zoning information is provided in the NUCLEUS_ZONE_CD field. The ASR_ZONE field is an older version of this field. Land use zoning is generalized comprising 9 zone types. This can provide a useful approximation for parcels that are outside of the San Diego City and County zoning jurisdictions.Please note that land use and zoning fields are not regularly maintained by the Assessor's Office and should only be used as an approximate guide. Updates are only made when there is new construction, or a change in ownership. They are not updated when the County and Local Cities update their zoning data or when permit changes to properties are completed. Please refer to city and County official zoning datasets for official zoning information, and to SANDAG for more current land use data. NOTE: If the name of this layer includes "_NORTH", "_SOUTH", or "_EAST" it represents a subset of the entire San Diego County Parcel Base. That is, the "_NORTH" layer includes only parcels generally in the Northwestern portion of the County. The "_SOUTH" layer includes parcels in the Southwestern portion. And the "_EAST" layer includes parcels in the approximate Eastern half of the County.

## Credits:

SanGIS using legal recorded data provided by the County Recorders and Assessor's Office. See the County ARCC website at https://arcc.sdcounty.ca.gov/Pages/default.aspx for more information about tax parcels

## Use Limitation:

Data is generalized and created for use in regional projects. Please refer to SanGIS GIS data end user use agreement and disclaimer which is available at the following: http://www.sangis.org/Legal_Notice.htm.Attribute information in this layer contains only the information on property characteristics that has been authorized for public release by the Assessor/Recorder/County Clerk's Office.Parcels shown in this layer may lag the official Assessor Parcel Map due to timing of data transmissions and publication schedules.Please note that land use, zoning and property description fields are not regularly maintained and should only be used as an approximate guide. Please refer to city and County official zoning datasets for official zoning information, and to SANDAG for more current land use data.

## Topics and Keywords

Topic Categories: Boundaries Location Planning Cadastral

Themes:

Parcel, Land, taxable parcel, property, boundaries, lots

Places:

California, County of San Diego, Carlsbad, Coronado, Chula Vista, Del Mar, El Cajon, Encinitas, Escondido, Imperial Beach, Lemon Grove, La Mesa, National City, Oceanside, Poway, San Diego, San Marcos, Solana Beach, Santee, Vista

## Resource Details:

Status: On Going
Type: Vector
Update Frequency: Weekly
Next Update: 2014-08-31

## Spatial Reference System:

Type: Projected
Reference: GCS_North_American_1983
Projection: NAD_1983_StatePlane_California_VI_FIPS_0406_Feet

Identifier: 2230
Codespace: EPSG
Version: 7.9.4

## Contacts:

### Point of Contact

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(858) 874-7000

### Distributor

SanGIS
5510 Overland Avenue, Suite 230
San Diego, California. 92123
Data Librarian
Data Librarian
webmaster@sangis.org
(858) 874-7000

## Distribution Ordering Instructions:

Refer to SanGIS website (http://www.sangis.org/services/index.html) to obtain further information on mapping and data extraction services available from SanGIS.

## Online Ordering Description:

Parcels, without certain restricted fields and owner names, are available for downloadable as shapefile from http://www.sangis.org/download/index.html and parcels can be viewd on the SanGIS interactive webmap (http://sdgis.sandag.org/)

## Fields:

### Overview:

This dataset contains over 60 attributes with the key, unique, field being APN (full Assessor Parcel Number). The majority of the attributes come from the Assessor's Master Property Record (MPR) or Parcel Assessment Record (PAR). Attributes maintained by SanGIS are:
ADDRFRAC; ADDRNO; ADDRUNIT; ROADNAME; ROADPDIR; ROADPOSTD; ROADSFX; ZIP; APNID; PARCELID; OVERLAY_JURIS; X_COORD; Y_COORD; SUB_TYPE

All other attributes are from the Assessor's MPR or PAR data. Attributes that are from the Assessor's Office will include the wording "Field updated weekly from Assessor's Master Property Record (MPR) file." or something similar in the attribute description.

Attributes fall into three general categories:

Parcel Characteristics - fields related to the tax parcel itself, how it is identified, how it was created, and what jurisidctions and tax rate areas it falls within. Data

may come from the Assessor's Master Property Record (MPR) or be applied by SanGIS as part of the polygon creation and maintenance process.

Property Characteristics - fields related to land use, improvements, and assessed valuations. All fields in this category are from the Assessor's MPR or PAR data.

Addresses - there are three sets of address fields - Owner mailing address, MPR SITUS address, SanGIS address:

Owner address fields provide mailing address information for the property owner. Owner address field names all begin with OWN_. Owner addresses may be in state or out of state and do not reflect site loction.

SITUS addresses are the site locationcome from the Assessor's MPR. SITUS addresses are intended to show the actual, physical, location of the parcel and may not be the same as the resident mailing address. All SITUS address fields begin with either SITUS_ or NUCLEUS_SITUS_

SanGIS addresses are those provided to SanGIS by the local jurisdiction addressing authority. Not all parcels will have a SanGIS address. SanGIS address fields are:
ADDRFRAC; ADDRNO; ADDRUNIT; ROADNAME; ROADPDIR; ROADPOSTD; ROADSFX; ZIP

## Citation:

SanGIS using legal recorded data provided by the County Recorders and Assessor's Office. See the County ARCC website at https://arcc.sdcounty.ca.gov/Pages/default.aspx for more information about tax parcels

### __FID (OID)

Internal feature number.

### APN (String)

Assessor Parcel Number (APN) - Full 10 digit
APN is of the form: BBB-PPx-yy-zz where:
BBB = Assessor Map Book number
PP = Assessor Map Book Page number
x = Assessor Map Book Block number
yy = Parcel number
zz = Subunit number (for condos)

### APN_8 (String)

Assessor Parcel Number (APN) - First 8 digits
Same as full 10 digit APN but without the subunit ids
Assessor Parcel Number (APN) - Full 10 digit
APN is of the form: BBB-PPx-yy where:
BBB = Assessor Map Book number
PP = Assessor Map Book Page number
x = Assessor Map Book Block number
yy = Parcel number

### PARCELID (Double)

SanGIS internal Parcel polygon ID number. Not a unique field. Mulitple APNs may have the same

**OWN_NAME1 (String)**
First property owners name
Field updated weekly from Assessor's Master Property Record (MPR) file.

**OWN_NAME2 (String)**
Second owner name
Field updated weekly from Assessor's Master Property Record (MPR) file.

**OWN_NAME3 (String)**
Third owner name
Field updated weekly from Assessor's Master Property Record (MPR) file.

**FRACTINT (Double)**
Fractional Interest Code
Code, Description
1, single interest,
2, multiple interests, equal shares,
3, multiple interests, unequal shares,
4, multiple interests, shares unknown,
5, all as joint tenants

Field updated weekly from Assessor's Master Property Record (MPR) file.

**OWN_ADDR1 (String)**
Property owner mailing address, line 1
Field updated weekly from Assessor's Master Property Record (MPR) file.

**OWN_ADDR2 (String)**
Property owner mailing address, line 2
Field updated weekly from Assessor's Master Property Record (MPR) file.

**OWN_ADDR3 (String)**
Property owner mailing address, line 3
Field updated weekly from Assessor's Master Property Record (MPR) file.

**OWN_ADDR4 (String)**
Property owner mailing address, line 4
Field updated weekly from Assessor's Master Property Record (MPR) file.

**OWN_ZIP (String)**
Property owner mailing address ZIP code
Field updated weekly from Assessor's Master Property Record (MPR) file.

**LEGLDESC (String)**
Abbreviated legal description of parcel
Field updated weekly from Assessor's Master Property Record (MPR) file.

**ASR_LAND (Double)**
Assessed land value

Field updated weekly from Assessor's Master Property Record (MPR) file.

**ASR_IMPR (Double)**
Assessed improvement value
Field updated weekly from Assessor's Master Property Record (MPR) file.

**ASR_TOTAL (Double)**
Total assessed value
Field updated weekly from Assessor's Master Property Record (MPR) file.

**DOCTYPE (String)**
Type of document that created this parcel.
Field updated weekly from Assessor's Master Property Record (MPR) file.
Code: Description
0; Unresearched
1; Grant deed
2; Quit claim
3; Unrecorded deed
4; Recorded death certificate
5; Unrecorded death certificate
6; Other types recorded document (Trustees deed)
7; Unknown
8; Recorded contract

**DOCNMBR (String)**
Document number that created this parcel
Field updated weekly from Assessor's Master Property Record (MPR) file.

**DOCDATE (String)**
Document recording date of document that created this parcel.
Field updated weekly from Assessor's Master Property Record (MPR) file.

**ACREAGE (Double)**
Parcel acreage if over 0.25 acres (blank if smaller)
Field updated weekly from Assessor's Master Property Record (MPR) file.

**TAXSTAT (String)**
Tax status code
Field updated weekly from Assessor's Master Property Record (MPR) file.
Code, Description
N, Nontaxable
T, Taxable

**OWNEROCC (String)**
Owner occupied indicator (Y=yes or blank)
Field updated weekly from Assessor's Master Property Record (MPR) file.

**TRANUM (String)**
Tax rate area number
Field updated weekly from Assessor's Master Property Record (MPR) file.

**ASR_ZONE (Integer)**

Assessor Info Zone
Legacy field, irregularly updated by Assessor's Office. NUCLEUS_ZONE_CD represents a more detailed version of this field.
Code; Description
0; UNZONED
1; SINGLE FAMILY RESIDENTIAL
2; MINOR MULTIPLE
3; RESTRICTED MULTIPLE
4; MULTIPLE RESIDENTIAL
5; RESTRICTED COMMERCIAL
6; COMMERCIAL
7; INDUSTRIAL
8; AGRICULTURAL
9; SPECIAL AND/OR MISC.

**SUBMAP (String)**

Subdivision map number or parcel map number
Field updated weekly from Assessor's Master Property Record (MPR) file.

**SITUS_ZIP (String)**

Site address Zip Code.
Field updated weekly from Assessor's Master Property Record (MPR) file.

**SUBNAME (String)**

Subdivision name as shown on recorded subdivision map or parcel map number
Originated with City of San Diego. Subdivisions used for Planning and Development. Updated biannually.

**UNITQTY (Integer)**

Number of dwelling units
Field updated weekly from Assessor's Master Property Record (MPR) file.

**X_COORD (Double)**

X coordinate of approximate parcel centroid. California State Plane, Zone 6, NAD83

**Y_COORD (Double)**

Y coordinate of approximate parcel centroid. California State Plane, Zone 6, NAD83

**MULTI (String)**

Multiple parcel indicator (Y = condos or timeshares)
Field updated weekly from Assessor's Master Property Record (MPR) file.

**ADDRNO (Double)**

Site address number if provided by addressing authority of local jurisdiction.
Maintained by SanGIS and updated as new address information is provided.

**ADDRFRAC (String)**

Address fractional part, if any, if provided by addressing authority of local jurisdiction. Maintained by SanGIS and updated as new address information is provided.

**ADDRUNIT (String)**

Building or unit number, if any, if provided by addressing authority of local jurisdiction. Maintained by SanGIS and updated as new address information is provided.

**SUB_TYPE (Integer)**

Type of parcel as maintained by SanGIS. Right-of-way parcels (sub-type 5) are not published in SanGIS parcel layers. See RIGHT_OF_WAY layer for dedicated rights-of-way.
Code; Sub-Type
1; Regular parcel with APN number
2; Unparcelled Private Road
3; Unparcelled Government Land
4; Unparcelled Common Area
5; Right-of-Way

**ZIP (String)**

Site address ZIP code determined from a special overlay of the SanGIS ZIPCODE layer.

**ROADPDIR (String)**

Site address road direction preceeding the road name, if provided by addressing authority of local jurisdiction. Maintained by SanGIS and updated as new address information is provided.
Up to two characters:
N: North
NE: Northeast
NW: Northwest
S: South
SE: Southeast
SW: Southwest
E: East
W: West

**ROADNAME (String)**

Site address road name, if provided by addressing authority of local jurisdiction. Maintained by SanGIS and updated as new address information is provided.

**ROADPOSTD (String)**

SanGIS Road post direction. That is, the direction following the road name and/or suffix. If provided by addressing authority of local jurisdiction. Maintained by SanGIS and updated as new address information is provided.

Up to two characters:
N: North
NE: Northeast
NW: Northwest
S: South

SE: Southeast
SW: Southwest
E: East
W: West

### ROADSFX (String)

Site address road name suffix, if provided by addressing authority of local jurisdiction. Maintained by SanGIS and updated as new address information is provided.

Street name suffix is abbreviated. Four letter abbreviations are used according to the SanGIS standards manual as follows:

ALY: ALLEY
ARC: ARCADE
AVE: AVENUE
BP: BIKEPATH
BLVD: BOULEVARD
BRG: BRIDGE
BYP: BYPASS
CSWY: CAUSEWAY
CIR: CIRCLE
CTE: CORTE
CT: COURT
CV: COVE
CRES: CRESCENT
XING: CROSSING
DR: DRIVE
DRWY: DRIVEWAY
EXPY: EXPRESSWAY
EXT: EXTENTION
FRY: FERRY
FWY: FREEWAY
GLEN: GLEN
HWY: HIGHWAY
INTR: INTERCHANGE
LN: LANE
LOOP: LOOP
MALL: MALL
PKY: PARKWAY
PASS: PASS
PATH: PATH
PL: PLACE
PLZ: PLAZA
PT: POINT
PTE: POINTE
RAMP: RAMP
RD: ROAD
ROW: ROW
SQ: SQUARE
ST: STREET
TER: TERRACE
TRL: TRAIL
TKTL: TRUCKTRAIL
WALK: WALK
WAY: WAY

**Shape (Geometry)**
Feature geometry.

**SHAPE_AREA (Double)**
Area of feature in internal units squared.

**SITUS_JURI (String)**
Situs Jurisdiction. Jurisidction in which the property is located. Field updated weekly by query script from Tax Rate Area (TRA) number in Assessor's Master Property Record (MPR) file.

Code; Jurisdiction
CB; Carlsbad
CN; Unincorporated
CO; Coronado
CV; Chula Vista
DM; Del Mar
EC; El Cajon
EN; Encinitas
ES; Escondido
IB; Imperial Beach
LG; Lemon Grove
LM; La Mesa
NC; National City
OC; Oceanside
PW; Poway
SD; San Diego
SM; San Marcos
SO; Solana Beach
ST; Santee
VS; Vista

**SITUS_STRE (String)**
Site Address Street Name.
Field updated weekly from Assessor's Master Property Record (MPR) file.

**SITUS_SUFF (String)**
Site Address Suffix or Street type (e.g. AV, BAY, CT, ST, DR)
Field updated weekly from Assessor's Master Property Record (MPR) file.

**SITUS_POST (String)**
Post direction of road, The direction following the street name and/or street suffix
Field updated weekly from Assessor's Master Property Record (MPR) file.

**SITUS_PRE_ (String)**
Road Prefix Direction, The direction preceeding the street name.
Field updated weekly from Assessor's Master Property Record (MPR) file.

**SITUS_ADDR (Double)**
Site address number.
Field updated weekly from Assessor's Master Property Record (MPR) file.

**SITUS_FRAC (String)**
Site address fraction (if any), e.g. 2/3 or W or A. Can be number or letter.
Field updated weekly from Assessor's Master Property Record (MPR) file.

**SITUS_BUIL (String)**
Blank field. Part of standard set of address fields.
Field updated weekly from Assessor's Master Property Record (MPR) file.

**SITUS_SUIT (String)**
Suite, unit, or location of business within building.
Field updated weekly from Assessor's Master Property Record (MPR) file.

**SITUS_COMM (String)**
Site address community or post office name.
Field updated weekly from Assessor's Master Property Record (MPR) file.

**ASR_LANDUS (Integer)**
Assessment land use code
Legacy field, irregularly maintained by the Assessors Office.
NUCLEUS_USE_CD represents a more detailed version of this field.

Code; Land Use Description
06; INFORMATION PARCEL- GENERIC
07; TIME SHARE GENERIC
09; MANUFACTURED HOME IN PARK - NOT SPECIFIED
10; VACANT RESIDENTIAL-GENERIC
11; SINGLE FAMILY RESIDENTIAL-GENERIC
12; DUPLEX-GENERIC
13; MULTIPLE 2 TO 4 UNITS-GENERIC
14; MULTIPLE 5 TO 15 UNITS-GENERIC
15; MULTIPLE 16 TO 60 UNITS-GENERIC
16; MULTIPLE 61 UNITS AND UP-GENERIC
17; CONDOMINIUMS AND OTHER RESIDENTAL CLASSIFICATIONS
18; CO-OP GENERIC
19; SPECIAL- SLIVER, SMALL PARCEL
20; VACANT LAND COMMERCIAL
21; GENERIC COMMERCIAL OFFICE/RETAIL 1-3 STORIES
22; GENERIC-4 AND MORE STORY OFFICE BUILDING
23; REGIONAL SHOPPING CENTER
24; COMMUNITY SHOPPING CENTER
25; NEIGHBORHOOD SHOPPING CENTER
26; HOTEL/MOTEL
27; SERVICE STATION-GENERIC
28; GENERIC-MEDICAL/DENTAL OFFICE
29; REST HOME/CONVALESCENT HOPITAL
30; OFFICE CONDOMINIUMS
31; GARAGE PARKING LOT/USED CAR
32; TRAILER PARK
33; THEATER-GENERIC
34; BOWLING ALLEY
35; GENERIC-RESTAURANT/NIGHT CLUB/TAVERN
36; CAR WASH
37; GROCERY/DRUG LARGE CHAIN GENERIC
38; AUTO SALES/SERVICE AGENCY

39; GENERIC-RADIO STATION /BANK/MISC
40; VACANT INDUSTRIAL
41; FACTORY/LIGHT MANUFACTURING
42; FACTORY/HEAVY MANUFACTURING
43; WAREHOUSE-PROCESSING/STORAGE/DISTRIBUTION
44; STORAGE BULK CHEMICAL/OIL REFINERY
45; NATURAL RESOURCES – MINING, EXTRACTIVE, PROCESSING CEMENT/SILICA PRODUCTS, ROCK & GRAVEL
46; AUTOMOTIVE REPAIR GARAGES
47; INDUSTRIAL CONDOS
49; MISC INDUSTRIAL/SPECIAL LAND
50; IRRIGATED FARM VACANT WATER AVAILABLE
51; CITRUS
52; AVOCADO
53; VINES
54; TREES MISC (OTHER THAN CITRUS OR AVOCADO)
55; LIVESTOCK
56; POULTRY
57; IRRIGATED CROPS OTHER VEGETABLE, FLORAL, FEEDING (HAY OR SEED CROPS)
58; GROWING HOUSES
59; MISC. AGRICULTURAL
61; RURAL LAND OTHER
62; 1 – 10 ACRES NON-IRRIGATED
63; 41 – 160 ACRES NON-IRRIGATED
64; 161 – 360 ACRES NON-IRRIGATED
65; 361 ACRES & UP NON-IRRIGATED
70; INSTITUTIONAL-VACANT
71; CHURCH
72; CHURCH RECTORY, PARKING & OTHER CHURCH RELATED USE
73; CEMETARY
74; MAUSOLEUM
75; MORTUARY
76; PUBLIC BUILDING (SCHOOL, FIREHOUSE, LIBRARY, ETC)
77; HOSPITAL
76; PRIVATE SCHOOLS & FACILITIES
79; MISC. INSTITUTIONAL-GENERIC
80; VACANT RECREATIONAL
81; MEETING HALL, GYM - GENERIC
82; GOLF COURSE
83; MARINA DOCKS
84; RECREATIONAL CAMPS
85; NON-TAXABLE
86; OPEN SPACE
87; AGRICULTURAL PRESERVE (NOT UNDER CONTRACT)
88; AGRICULTURAL PRESERVE (UNDER CONTRACT)
89; MISCELLANEOUS/SPECIAL
90; VACANT TAXABLE GOVT. OWNED PROPERY
91; IMPROVED TAXABLE GOVT OWNED PROPERTY

**NUCLEUS_ZO (String)**

Generalized land use zones. Field irregularly maintained by the Assessor's office. ASR_ZONE represents a legacy version of this field.
Code; Description
00; UNZONED
10 SINGLE FAMILY RESIDENTIAL
20; MINOR MULTIPLE

21; RESTRICTED MINOR MULTIPLE
30; RESTRICTED MULTIPLE
31; RESTRICTED RESTRICTED MULTIPLE
40; MULTIPLE RESIDENTIAL
41; RESTRICTED MULTIPLE RESIDENTIAL
50; RESTRICTED COMMERCIAL
60; COMMERCIAL
70; INDUSTRIAL
80; AGRICULTURAL
90; SPECIAL AND/OR MISC.

**NUCLEUS_US (String)**

Nucleus Zone Code - Description of use of property. This field provides more detailed land use information than the ASR_LANDUSE field.
Field irregularly maintained by the Assessor's Office.
Note: By "Restricted" the Assessor's Office intended that there is some kind of government imposed rent or sales restriction in place (low/moderate income, seniors) that impacts the valuation process.
Field updated weekly from Assessor's Master Property Record (MPR) file.

Code Description
060 INFORMATION PARCEL- GENERIC
067 INFORMATION PARCEL-TIME SHARE
068 INFORMATION PARCEL-OWNER IN SINGLE BILLED MH CO-OP
069 INFORMATION PARCEL-MOBILE HOME SPACE IN RENTAL PARK
070 TIME SHARE GENERIC
072 TIME SHARE INDEXED
090 MANUFACTURED HOME IN PARK - NOT SPECIFIED
091 MANUFACTURED HOME IN RENTAL PARK
092 MH IN CONDO/SUBDIVISION PARK
093 MH IN PLANNED UNIT DEVELOPMENT (PUD) PARK
094 MANUFACTURED HOME IN CO-OP PARK
095 MH IN LONG TERM LEASE PARK
096 MH ON INDIAN RESERVATION
097 MH ON LEASED LAND - NOT A PARK
098 MANUFACTURED HM ACCESSORIES ONLY
099 MH ON PRIVATE PROPERTY - NOT A PARK
100 VACANT RESIDENTIAL-GENERIC
110 SINGLE FAMILY RESIDENTIAL-GENERIC
111 SINLE FAMILY-
112 SINGLE FAMILY RESIDENTIAL-WITH GRANNY FLAT
113 SINGLE FAMILY RESIDENCE GATED COMMUNITY
114 SINGLE FAMILY ATTACHED/PUD
115 SINGLE FAMILY DETACHED/PUD
116 SINGLE FAMILY RESIDENCE W/ COMMUNITY PRIVATELY SHARED WATER SYSTEM
117 SINGLE FAMILY W/AGRICULTURAL BLDG
120 DUPLEX-GENERIC
130 MULTIPLE 2 TO 4 UNITS-GENERIC
140 MULTIPLE 5 TO 15 UNITS-GENERIC
150 MULTIPLE 16 TO 60 UNITS-GENERIC
152 MULTIPLE 16 TO 60 UNITS-SENIOR HOUSING
153 MULTIPLE 16 TO 60 UNITS-RSTRCTD RENTS(236&515)
160 MULTIPLE 61 UNITS AND UP-GENERIC
162 MULTIPLE 61 UNITS AND UP-SENIOR HOUSING
163 MULTI 61 UNITS AND UP-RSTRCTD RENTS(236&515)
170 CONDOMINIUMS AND OTHER RESIDENTAL CLASSIFICATIONS

171 CONDOMINIUMS ATTACHED 5 UNITS AND ABOVE
172 CONDOMINIUMS DETACHED/PUD
173 CONDOMINIUMS 2-4 UNITS FOR ENTIRE PROJECT
174 CONDOMINIUMS BEING RENTED AS APARTMENTS(LG PROJECT)
180 CO-OP GENERIC
182 CO-OP ON LEASED LAND
190 SPECIAL- SLIVER, SMALL PARCEL
191 COMMON AREA, RECREATION FACILITY FOR DEVELOPMENT
192 PARCEL USED FOR ACCESS (DRIVEWAY FOR MULTIPLE PARCELS)
193 SLIVER LEFT OVER-PARCEL NON-BUILDABLE
195 MH SPACE LONG TERM LEASEHOLD/PI
200 VACANT LAND COMMERCIAL
210 GENERIC COMMERCIAL OFFICE/RETAIL 1-3 STORIES
209 OFFICE LABORATORY
211 1 TO 3 STORY OFFICE BUILDING
212 1 TO 3 STORY OFFICE/RETAIL BUILDING
213 SINGLE TENANT STAND ALONE RETAIL BUILDING
214 CONVIENIENCE STORE (7/11, CIRCLE K, ETC.)
215 DEPARTMENT STORE
216 SINGLE STORY STRIP RETAIL
217 COMBINATION COMMERCIAL/RESIDENTIAL BLDG
218 GARDENING/NURSERY
219 RETAIL CONDOMINIUM
220 GENERIC-4 AND MORE STORY OFFICE BUILDING
221 4 AND MORE STORY OFFICE
222 4 OR MORE STORY RETAIL
230 REGIONAL SHOPPING CENTER
232 FACTORY OUTLET CENTER
240 COMMUNITY SHOPPING CENTER
250 NEIGHBORHOOD SHOPPING CENTER
251 NEIGHBORHOOD SHOPPING CTR (ANCHOR WITH DRUG/GROC)
252 NEIGHBORHOOD SHOPPING CTR (NOT ANCHORED WITH DRUG/GROC)
260 HOTEL/MOTEL
261 HOTEL
262 RESORT HOTEL
263 SRO HOTEL
264 HOTEL-CONDOMINIUM
265 MOTEL-INDEPENDENT
266 MOTEL-CHAIN
267 BED & BREAKFAST
270 SERVICE STATION-GENERIC
271 SERVICE STATION
272 SERVICE STATION W/MINI MART/RETAIL
272 SERVICE STATION -CAR WASH W/MINI MART
274 MINI LUBE/OIL CHANGE
280 GENERIC-MEDICAL/DENTAL OFFICE
281 MEDICAL DENTAL OFFICE
282 VETERINARY OFFICES
283 ANIMAL HOSPITAL
284 KENNELS
290 REST HOME/CONVALESCENT HOPITAL
291 COMBINATION ASSISSTED LIVING/SKILLED NURSING
292 CONVALESCENT HOPITAL
293 RESTHOME
294 RETIREMENT/INDEPENDENT LIVING
300 OFFICE CONDOMINIUMS
310 GARAGE PARKING LOT/USED CAR
311 PARKING LOT MINIMAL IMPROVEMENTS

312 PARKING STRUCTURE
320 TRAILER PARK
321 MOBILE HOME PARK--RENTAL
322 RV PARK
330 THEATER-GENERIC
331 MOVIE THEATER
332 MOVIE THEATER-MULTIPLEX
333 AUDITORIOUM/LIVE THEATER
337 DRIVE-IN THEATER
340 BOWLING ALLEY
342 MISC. RECREATIONAL
343 GYM-FITNESS CENTER
344 AMUSEMENT PARK
345 TENNIS/SWIM CLUB
346 RACE TRACK
347 PLAYING FIELD
348 CASINO
349 HORSE FACILITIES-RIDING STABLE
350 GENERIC-RESTAURANT/NIGHT CLUB/TAVERN
351 RESTAURANT-INDEPENDENT
352 RESTAURANT-CHAIN
353 NIGHT CLUB
354 BAR/TAVERN
355 FAST FOOD RESTAURANT
360 CAR WASH
370 GROCERY/DRUG LARGE CHAIN GENERIC
371 GROCERY CHAIN
372 DRUG STORE LARGE CHAIN
373 GROCERY INDEPENDENT
380 AUTO SALES/SERVICE AGENCY
381 NEW CAR DEALERSHIP
382 USED CAR LOT
390 GENERIC-RADIO STATION /BANK/MISC
391 RADIO/TV STATION MEDIA CENTER
392 BANK
397 ANTENNA/CELL SITE
400 VACANT INDUSTRIAL
410 FACTORY/LIGHT MANUFACTURING
411 SINGLE TENANT INDUSTRIAL
412 MULTI-TENANT INDUSTRIAL
413 INDUSTRIAL LABORATORY
414 R&D BUILDING
415 MANUFACTURING CLEAN ROOM (ELECTRONICS)
420 FACTORY/HEAVY MANUFACTURING
430 WAREHOUSE-PROCESSING/STORAGE/DISTRIBUTION
432 MAJOR DISTRIBUTION CENTER
433 TANK FARM
440 STORAGE BULK CHEMICAL/OIL REFINERY
442 BULK STORAGE
443 LUMBERYARD
444 SELF STORAGE/MINI STORAGE
450 NATURAL RESOURCES – MINING, EXTRACTIVE, PROCESSING
CEMENT/SILICA PRODUCTS, ROCK & GRAVEL
452 LANDFILL
453 CEMENT/ROCK/GRAVEL PLANT
454 WINERY/BREWERY
455 PACKING COLD STORAGE
456 PRIVATE WATER COMPANIES

457 POWER PLANTS
458 OPEN STORAGE
460 AUTOMOTIVE REPAIR GARAGES
462 TRUCK TERMINAL
463 AUTO WRECKING YARDS
464 SHIPYARD, SHIP/BOAT REPAIR FACILITIES
465 AIRPLANE HANGER
470 INDUSTRIAL CONDOS
490 MISC INDUSTRIAL/SPECIAL LAND
500 IRRIGATED FARM VACANT WATER AVAILABLE
510 CITRUS
520 AVOCADO
530 VINES
532 VINEYARD
533 VINEYARD WITH WINE TASTING ROOM
540 TREES MISC (OTHER THAN CITRUS OR AVOCADO)
550 LIVESTOCK
560 POULTRY
570 IRRIGATED CROPS OTHER VEGETABLE, FLORAL, FEEDING (HAY OR SEED CROPS)
580 GROWING HOUSES
590 MISC. AGRICULTURAL
610 1 – 10 ACRES NON-IRRIGATED
620 11 – 40 ACRES NON-IRRIGATED
630 41 – 160 ACRES NON-IRRIGATED
640 161 – 360 ACRES NON-IRRIGATED
650 361 ACRES & UP NON-IRRIGATED
700 INSTITUTIONAL-VACANT
710 CHURCH
720 CHURCH RECTORY, PARKING & OTHER CHURCH RELATED USE
730 CEMETARY
740 MAUSOLEUM
750 MORTUARY
760 PUBLIC BUILDING (SCHOOL, FIREHOUSE, LIBRARY, ETC)
770 HOSPITAL
780 PRIVATE SCHOOLS & FACILITIES
782 PRESCHOOL AND CHILDCARE FACILITY
783 FRATERNITY/SORORITY HOUSE
784 DORMITORIES-PRIVATE
790 MISC. INSTITUTIONAL-GENERIC
792 CORRECTIONAL FACILITY
800 VACANT RECREATIONAL
810 MEETING HALL, GYM - GENERIC
811 MEETING HALL
812 AMPHITHEATER
813 ARENA/STADIUM
820 GOLF COURSE
823 DRIVING RANGE
830 MARINA DOCKS
840 RECREATIONAL CAMPS
850 NON-TAXABLE
851 MILITARY BASE
852 STATE PARK
853 COUNTY PARK
854 CITY PARK
855 NATIONAL FOREST
856 WATER TANK SITE
857 INDIAN RESERVATION

858 NATIONAL WILDLIFE REFUGE
859 MISC NON-TAXABLE IMPROVEMENT
867 STATE ASSESSED
860 OPEN SPACE
861 OPEN SPACED OWNED BY AN HOA (OR SIMILAR)
862 OPEN SPACE OWNED BY DEVELOPER
864 OPEN SPACE ESMT-IN FAVOR OF GOVERNMENT
865 LAND BANK-CREDITS BEING SOLD
866 MITIGATION LAND- CREDITS USED
870 AGRICULTURAL PRESERVE (NOT UNDER CONTRACT)
880 AGRICULTURAL PRESERVE (UNDER CONTRACT)
881 AGRICULTURAL PRESERVE WITH HOUSE
882 AGRICULTRAL PRESERVE AVOCADO
883 AGRICULTURAL PRESERVE CITRUS
884 AGRICULTRAL PRESERVE GRAZING
885 VINEYARD UNDER CONTRACT
887 MILLS ACT (SINGLE FAM OWNER OCCUPIED)
888 MILLS ACT (OTHER THAN SINGLE FAM OWNER OCCUPIED)
890 MISCELLANEOUS/SPECIAL
900 VACANT TAXABLE GOVT. OWNED PROPERY
910 IMPROVED TAXABLE GOVT OWNED PROPERTY

### NUCLEUS_SI (Double)

Where the parcel contains an address range, this number represents the starting, lowest, number of the range.

Field updated weekly from Assessor's Master Property Record (MPR) file.

### NUCLEUS__1 (Double)

Where the parcel contains an address range, this number represents the ending, highest, number of the range.

Field updated weekly from Assessor's Master Property Record (MPR) file.

### NUCLEUS__2 (String)

If there is a fraction at the end of a range, e.g. 1424 - 1426 1/2

### OVERLAY_JU (String)

Overlay Jurisdiction.
Field calculated from spatial overlay of parcel centroid with JUR_MUNICIPAL Feature Class.

Code; Jurisdiction
CB; Carlsbad
CN; Unincorporated
CO; Coronado
CV; Chula Vista
DM; Del Mar
EC; El Cajon
EN; Encinitas
ES; Escondido
IB; Imperial Beach
LG; Lemon Grove
LM; La Mesa
NC; National City

OC; Oceanside
PW; Poway
SD; San Diego
SM; San Marcos
SO; Solana Beach
ST; Santee
VS; Vista

**SHAPE_LEN (Double)**

## Metadata Last Update: 2015-10-05

Regional GIS Data Warehouse (RGDW) Publication Stylesheet 1.4

# SECTION 10

## RESOURCE_CONSERVATION_AREAS

# CMTY_RESOURCE_CONSERV_AREAS

## Tags

RCA, General Plan Conservation Element, public acquisition, open space easements, land use controls, cluster zoning, large lot zoning, scenic or natural resource preservation overlay zones, resource conservation areas, groundwater problem areas, coastal wetlands, native wildlife habitat, construction quality sand areas, littoral sand areas, astronomical dark sky areas, unique geological formations, and significant archaeological and historical sites

## Summary:

To identify and describe the County's resource conservation areas (RCA)

## Feature Type: Polygon

## Number of Records: 193

## Publication Date: 2009-06-11

## Date of Data (Temporal Period Extent): 2009-06-11

## Extent: San Diego County

### Extent in Longitude Latitude

**North** 33.512045
**West** -117.597988 **East** -116.080174
**South** 32.530187

### Extent in the item's coordinate system

**North** 2129938.999910
**West** 6150765.499856 **East** 6613431.000030
**South** 1775313.499868

## Description:

This overlay identifies lands requiring special attention in order to conserve resources in a manner best satisfying public and private objectives. The appropriate implementation actions will vary depending upon the conservation objectives of each resource but may include: public acquisition, establishment of open space easements, application or special land use controls such as cluster zoning, large lot zoning, scenic or natural resource preservation overlay zones, or by incorporating special design considerations into subdivision maps or special

use permits. Resource conservation areas shall include but are not limited to groundwater problem areas, coastal wetlands, native wildlife habitat, construction quality sand areas, littoral sand areas, astronomical dark sky areas, unique geological formations, and significant archaeological and historical sites.
Text regarding RCAs can be found in the Conservation Element of the County of San Diego's General Plan. For a comprehensive description of the County of San Diego General Plan and a information about the RCAs, refer to:
http://www.sdcounty.ca.gov/pds/generalplan.html

## Credits:

County of San Diego, Department of Public Works, County of San Diego, Planning and Development Services, LUEG-GIS Service.

## Use Limitation:



## Topics and Keywords

Topic Categories: Environment Location Planning Cadastral

Themes:

RCA, General Plan Conservation Element, public acquisition, open space easements, land use controls, cluster zoning, large lot zoning, scenic or natural resource preservation overlay zones, resource conservation areas, groundwater problem areas, coastal wetlands, native wildlife habitat, construction quality sand areas, littoral sand areas, astronomical dark sky areas, unique geological formations, and significant archaeological and historical sites

Places:

County of San Diego, California

## Resource Details:

Status: On Going
Type: Vector
Update Frequency: As Needed
Next Update: Not specified

## Spatial Reference System:

Type: Projected
Reference: GCS_North_American_1983
Projection: NAD_1983_StatePlane_California_VI_FIPS_0406_Feet

Identifier: 2230
Codespace: EPSG
Version: 7.11.2

## Contacts:

### Point of Contact

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webmaster@sangis.org
Phone:(858) 874-7000

## Distribution Ordering Instructions:

Refer to SanGIS website (http://www.sangis.org/services/index.html) to obtain further information on mapping and data extraction services available from SanGIS.

## Online Ordering Description:

Downloadable as a Shapefile from http://www.sangis.org/download/index.html

## Fields:

### Overview:

To identify and describe the County's resource conservation areas (RCA), lands requiring special attention in order to conserve resources in a manner best satisfying public and private objectives

RCA_NAME is name of Resource Conservation Area Name
RCA_NUM is Resource Conservation Area Number
RCA_NUM is Additional_RCA information

**__FID (OID)**

Internal feature number.

**Shape (Geometry)**
Feature geometry.

**RCA_NAME (String)**
Name of RCA

**RCA_NUM (Double)**
Number associated with RCA. Value of RCA_NUM has one-to-one relationship to attribute table's RCA_NAME

RCA_NUM, RCA_NAME

**ADD_RCA (String)**
Additional information regarding RCA

**Shape_Area (Double)**
Area of feature in internal units squared.

**SHAPE_LEN (Double)**

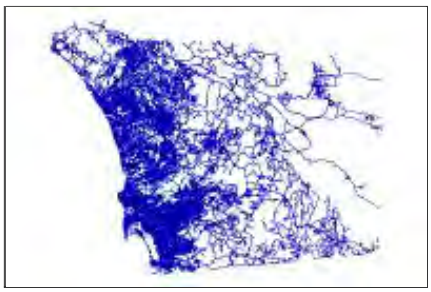
## Metadata Last Update: 2015-04-03

Regional GIS Data Warehouse (RGDW) Publication Stylesheet 1.4

# SECTION 11

## ROADS_ALL

# ROADS_ALL



## Tags

Roads, San Diego County, Transportation, Freeway, Highway, Collector, Arterial, Streets

## Summary:

This dataset comprises centerline segments for roads (both active and inactive, public and private, constructed or of record) in San Diego County based on data received from all official jurisdictions within the County (the County and 18 cities).

## Feature Type: Line

## Number of Records: 158271

## Publication Date: 2015-08-31

## Date of Data (Temporal Period Extent): 2015-08-31

## Extent: The spatial extent of this dataset is San Diego County. The temporal extent is variable.

### Extent in Longitude Latitude

**North** 33.509492
**West** -117.597058 **East** -116.080209
**South** 32.530639

### Extent in the item's coordinate system

**North** 2129010.001133
**West** 6151037.000000 **East** 6613422.000000
**South** 1775474.668000

## Description:

This dataset comprises road centerlines for all roads in San Diego County. Road centerline information is collected from recorded documents (subdivision and parcel maps) and information provided by local jurisidictions (Cities in San Diego County, County of San Diego). Road names and address ranges are as designated by the official address coordinator for each jurisidcition. Jurisdictional information is created from spatial overlays with other data layers (e.g. Jurisdiction, Census Tract).The layer contains both public and private roads. Not all roads are shown on official, recorded documents. Centerlines may be included for dedicated public roads even if they have not been constructed. Public road names are the official

names as maintained by the addressing authority for the jurisdiction in which the road is located. Official road names may not match the common or local name used to identify the road (e.g. State Route 94 is the official name of certain road segments commonly referred to as Campo Road).Private roads are either named or unnamed. Named private roads are as shown on official recorded documents or as directed by the addressing authority for the jurisdiction in which the road is located. Unnamed private roads are included where requested by the local jurisidiction or by SanGIS JPA members (primarily emergency response dispatch agencies). Roads are comprised of road segments that are individually identified by a unique, and persistent, ID (ROADSEGID). Roads segments are terminated where they intersect with each other, at jurisdictional boundaries (i.e. city limits), certain census tract and law beat boundaries, at locations where road names change, and at other locations as required by SanGIS JPA members. Each road segment terminates at an intersection point that can be found in the ROADS_INTERSECTION layer.Road centerlines do not necessarily follow the centerline of dedicated rights-of-way (ROW). Centerlines are adjusted as needed to fit the actual, constructed roadway. However, many road centerline segments are created intially based on record documents prior to construction and may not have been updated to meet as-built locations. Please notify SanGIS if the actual location differs from that shown. See the SanGIS website for contact information and reporting problems (http://www.sangis.org/contact/problem.html).Note, the road speeds in this layer are based on road segment class and were published as part of an agreement between San Diego Fire-Rescue, the San Diego County Sheriff's Department, and SanGIS. The average speed is based on heavy fire vehicles and may not represent the posted speed limit.

## Credits:

SanGIS using information from documents recorded with the County of San Diego and the addressing authorities in the 18 cities in San Diego County.

## Use Limitation:

Data is generalized and created for use in regional projects. Please refer to SanGIS GIS data end user use agreement and disclaimer which is available at the following: http://www.sangis.org/Legal_Notice.htm. See Metadata Description item for futher information.

## Topics and Keywords

### Topic Categories: Planning Cadastral Transportation

### Themes:

Roads, Streets, Transportation, Routes, Centerlines, Highways, Freeways, Expressways, Collector

### Places:

California, County of San Diego, Carlsbad, Coronado, Chula Vista, Del Mar, El Cajon, Encinitas, Escondido, Imperial Beach, Lemon Grove, La Mesa, National City, Oceanside, Poway, San Diego, San Marcos, Solana Beach, Santee, Vista

## Resource Details:

Status: On Going
Type: Vector
Update Frequency: Weekly
Next Update: 2014-09-05

## Spatial Reference System:

Type: Projected
Reference: GCS_North_American_1983
Projection: NAD_1983_StatePlane_California_VI_FIPS_0406_Feet

Identifier: 2230
Codespace: EPSG
Version: 7.9.4

## Contacts:

### Point of Contact

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(858) 874-7000

## Distribution Ordering Instructions:

Refer to SanGIS website (http://www.sangis.org/services/index.html) to obtain further information on mapping and data extraction services available from SanGIS.

## Online Ordering Description:

The roads_all dataset is available for download as shapefile from http://www.sangis.org/download.index.html and roads can also be viewed on the SanGIS interactive webmap (http://sdgis.sandag.org;)

## Fields:

### Overview:

Road segments are uniquely identified by the road segment identifier (ROADSEGID). This attribute is persistent over time. There are over 65 attributes for each road segment. These attributes provide information in 5 general categories:

Coordinate Values (12 attributes) - To/From and mid-point X and Y coordinates of segment and a pseudo-elevation value at each end of the segment. Coordinate value attributes are:
F_LEVEL, T_LEVEL, FNODE, TNODE, FRXCOORD, TOXCOORD, FRYCOORD, TOYCOORD, MIDXCOORD, MIDYCOORD, NAD83E, NAD83N

Address Range (8 attributes) - Low and high addresses on left and right sides of segment. Left/Right is defined by the direction of the segment as determined by the address range. Road direction is from low to high address. Address range attributes are:
ABHIADDR, ABLOADDR, LHIGHADDR, RHIGHADDR, LLOWADDR, RLOWADDR, LMIXADDR, RMIXADDR

Road Name (10 attributes) - Official road name component values. Fields are provided for systems that allow a maximum of 20 characters in a road name or 30 characters in the name component. Official road names are abbreviated to 20 or 30 characters if needed (road names only not including pre- and post-direction and suffix/types). Road names are assigned based on the ROADID value. ROADID is referemce to the road name maintained by SanGIS in a road name table. All roads with the same ROADID will have the same road name values. Road name attributes are:
RD20FULL, RD20PRED, RD20NAME, RD20SFX, RD30FULL, RD30PRED, RD30POSTD, RD30NAME, RD30SFX, ROADID

Jurisdiction Overlays (14 attributes) - Values calculated from a spactial overlay of the road segment with various jurisdictional layers maintained by SanGIS. Jurisdiction overlays are provided for left and right sides of the segment. Left/Right is defomed by the direction of the segment as determined by the address range. Road direction is from low to high address. Left/Right overlay values are calculated based on a point that is 7 ft left or right of the segment midpoint. All other overlays are calculated at the midpoint of the segment. Jurisdictional overlay attributes are:
L_BEAT, R_BEAT, L_BLOCK, R_BLOCK, L_PSBLOCK, R_PSBLOCK, L_TRACT, R_TRACT, L_ZIP, R_ZIP, LJURISDIC, RJURISDIC, LPSJUR, RPSJUR

Segment Specfic (21 attributes) - All attributes that are specific to the road segment and not included in the categories above. These values are assigned by SanGIS based on rules specified by SanGIS JPA member agencies.

## Citation:

SanGIS. Contact SanGIS for additional information on any attribute. Refer to ROADS_INTERSECTION for road segment termination types.

**FID (OID)**
Internal feature number.

**ROADSEGID (Double)**
Road segment indentifier. Unique key to road segment. Persistent over time.

**RULEID (Double)**
This field is created by ArcGIS as part of the Feature Class Representation.

**L_BEAT (Integer)**

Law (police) beat number on left side of road.
Value derived from a spatial overlay of the LAW_BEATS layer at a point 7' left of the segment midpoint.

**POSTDATE (Date)**

Identifies last date that road segment was changed

**LPSJUR (String)**

Public safety jurisdiction code on left side of road.
Value derived from a spatial overlay of the JUR_PUBLIC_SAFETY layer at a point 7' left of the segment midpoint.

Code; Description
CB; Carlsbad
CN; Unincorporated
CO; Coronado
CV; Chula Vista
DM; Del Mar
EC; El Cajon
EN; Encinitas
ES; Escondido
IB; Imperial Beach
LG; Lemon Grove
LM; La Mesa
NC; National City
OC; Oceanside
PW; Poway
SD; San Diego
SM; San Marcos
SO; Solana Beach
ST; Santee
VS; Vista

**PENDING (String)**

Recording status indicator of map creating this road segment
Y=yes, recording pending
N=no, map recorded or not available

**R_ZIP (Double)**

Five digit zip code number on right side of road.
Value derived from a spatial overlay of the ZIPCODE layer at a point 7' right of the segment midpoint.

**TNODE (Double)**

ID of the intersection point at the TO point (end) of the segment. Refers to the unique intersection point ID attribute (INTERID) in the ROADS_INTERSECTION layer.
Each road segment has an associated intersection point at the start and end points.

**RHIGHADDR (Double)**

Highest address value on the right side of the road.
Generally the value at the TO (end) node.

**ROADID (Double)**
Road name identifier. Refers to the unique ROADID in the SanGIS road name table. Road name components are assigned to a segment based on a lookup by ROADID in the road name table. All segments with the same ROADID value make up a "road" in the more general sense.

**DEDSTAT (String)**
Dedication status

Code; Description
A; Abandoned
D; Dedicated
L; Dedicated, but unofficially named Alley
O; Offer for dedication (street reservation)
P; Private street
Q; Undocumented
U; Undedicated

**SEGSTAT (String)**
Road segment status

Code; Description
A; Approved
C; Constructed
M; Maintained
R; Recorded
T; Tentative

**NAD83E (Double)**
California State Plane Zone 6, NAD83 Easting (X) coordinate at the FROM (start) node

**ONEWAY (String)**
One way street code
Code; Description
F; Addresses increases in same direction as traffic flow
T; Addresses increase in opposite direction of traffic flow
Null; Two-way streets

**NAD83N (Double)**
California State Plane Zone 6, NAD83 Northing (Y) coordinate at the FROM (start) node

**SUBDIVID (Double)**
SanGIS subdivision ID (links to SUBDIVISION layer).
Field updated by spatial join with Subdivision layer or added by editor from LOTS layer. Not populated for all segments.

**RD20SFX (String)**

Road Suffix (aka street type)  for 20 character road name abbreviations - always two letters

Code; Description
AL; ALLEY
AR; ARCADE
AV; AVENUE
BL; BOULEVARD
BP; BIKEPATH
BR; BRIDGE
BY; BYPASS
CE; CORTE
CG; CROSSING
CP; CAPE
CR; CIRCLE
CS; CRESCENT
CT; COURT
CV; COVE
CY; CAUSEWAY
DR; DRIVE
DY; DRIVEWAY
EX; EXTENSION
EY; EXPRESSWAY
FR; FERRY
FY; FREEWAY
HY; HIGHWAY
IN; INTERCHANGE
LN; LANE
LP; LOOP
ML; MALL
PA; PATH
PE; POINTE
PL; PLACE
PS; PASS
PT; POINT
PY; PARKWAY
PZ; PLAZA
RA; RAMP
RD; ROAD
RW; ROW
SQ; SQUARE
ST; STREET
TL; TRAIL
TR; TERRACE
TT; TRUCKTRAIL
WK; WALK
WY; WAY

**LLOWADDR (Double)**

Lowest address value on the left side of the road.
Generally the value at the FROM (start) node.

**F_LEVEL (Integer)**

Psuedo elevation value at the FROM (start) node of the segment.
The F_LEVEL (from level) AND T_LEVEL (to level) attributes define relative vertical separation between road segments. Values range from 0 to 9 with 0 defining a road segment below ground level and level 1 are road segments

usually at ground level. Values 2 to 9 define a relative vertical separation to the base ground level road segment. Value 2 segments would be above a value 1 segment but lower than a value 3 segments. An example would be the I-805/I-8 interchange across Mission Valley where the F_LEVEL and T_LEVEL values for the road segments through the interchange range from 1 to 4. An individual road segment can have different F_LEVEL and T_LEVEL values indicating a transition between vertical separations.

**RD30SFX (String)**

Abbreviated street name suffix (aka street type) for 30 character road names. That is, the part of the road name that describes the type of street. Up to four letter abbreviations are used according to the SanGIS standards manual as shown below. Does not necessarily match with US Postal Service suffix designations.

ALY: ALLEY
ARC: ARCADE
AVE: AVENUE
BP: BIKEPATH
BLVD: BOULEVARD
BRG: BRIDGE
BYP: BYPASS
CSWY: CAUSEWAY
CIR: CIRCLE
CTE: CORTE
CT: COURT
CV: COVE
CRES: CRESCENT
XING: CROSSING
DR: DRIVE
DRWY: DRIVEWAY
EXPY: EXPRESSWAY
EXT: EXTENTION
FRY: FERRY
FWY: FREEWAY
GLEN: GLEN
HWY: HIGHWAY
INTR: INTERCHANGE
LN: LANE
LOOP: LOOP
MALL: MALL
PKY: PARKWAY
PASS: PASS
PATH: PATH
PL: PLACE
PLZ: PLAZA
PT: POINT
PTE: POINTE
RAMP: RAMP
RD: ROAD
ROW: ROW
SQ: SQUARE
ST: STREET
TER: TERRACE
TRL: TRAIL
TKTL: TRUCKTRAIL
WALK: WALK

WAY: WAY

**RD30PRED (String)**
One or two character abbreviation for pre-direction component (direction preceeding the road name) of road names abbreviated to 30 characters.

E; East
N; North
S; South
W; West
NE; Northeast
NW; Northwest
SE; Southeast
SW; Southwest

**RD20PRED (String)**
One character abbreviation for pre-direction component (direction preceeding road name) of road names abbreviated to 20 characters.

E; East
N; North, Northwest or Northeast
S; South, Southwest or Southeast
W; West

**TOXCOORD (Double)**
X (Easting) coordinate of the end (TO) point of the segment. California State Plane, Zone 6, NAD83

**MIDXCOORD (Double)**
X (Easting) coordinate of the mid-point of the segment. California State Plane, Zone 6, NAD83

**SPEED (Integer)**
Average driving speed based on segment classification (SEGCLASS). This attribute is not intended to be the posted speed limit for the roads segment. SPEED is established by emergency vehicle dispatch agencies generally based on heavy fire vehicles in order to allow the Fire Department to determine realistic response times.

**FRYCOORD (Double)**
Y (Northing) coordinate of the start (FROM) point of the segment. California State Plane, Zone 6, NAD83

**FRXCOORD (Double)**
X (Easting) coordinate of the start (FROM) point of the segment. California State Plane, Zone 6, NAD83

**L_TRACT (Double)**
US 2010 census tract number on left side of road.
Value derived from a spatial overlay of the CENSUS_TRACT layer at a point 7' left of the segment midpoint.

**R_TRACT (Double)**

US 2010 census tract number on right side of road.
Value derived from a spatial overlay of the CENSUS_TRACT layer at a point 7' right of the segment midpoint.

**CARTO (String)**

Cartographic display indicator. Used to provide more appropriate cartographic representation. Generally the same as SEGCLASS. Not rigorously maintained.

Code; Description
1; Freeway/Expressway
2; Highway/State Routes
3; Minor Highway/Major Roads
4; Arterial or Collector
5; Local Street
6; Unpaved Road
7; Private Road
8; Freeway Transition Ramp
9; Freeway On/Off Ramp
A; Alley
H; Speed Hump
M; Military Street within Base
P; Paper Street
Q; Undocumented
W; Walkway

**SEGCLASS (String)**

Segment class

Code; Description
1; Freeway/Expressway
2; Highway/State Routes
3; Minor Highway/Major Roads
4; Arterial or Collector
5; Local Street
6; Unpaved Road
7; Private Road
8; Freeway Transition Ramp
9; Freeway On/Off Ramp
A; Alley
H; Speed Hump
M; Military Street within Base
P; Paper Street
Q; Undocumented
W; Walkway
Z; Named Private Street

**RD20NAME (String)**

Official road name abbreviated to 20 characters according to rules established in the SanGIS policy and procedures manual. Attribute maintained for compatibiltiy by older systems with limited length fields.

**T_LEVEL (Integer)**

Psuedo elevation value at the TO (end) node of the segment.
The F_LEVEL (from level) AND T_LEVEL (to level) attributes define relative vertical separation between road segments. Values range from 0 to 9 with 0 defining a road segment below ground level and level 1 are road segments usually at ground level. Values 2 to 9 define a relative vertical separation to the base ground level road segment. Value 2 segments would be above a value 1 segment but lower than a value 3 segments. An example would be the I-805/I-8 interchange across Mission Valley where the F_LEVEL and T_LEVEL values for the road segments through the interchange range from 1 to 4. An individual road segment can have different F_LEVEL and T_LEVEL values indicating a transition between vertical separations.

**RD30FULL (String)**

Road full name including pre-direction, suffix (type), and post-direction indicators. Road name component abbreviated to 30 characters per SanGIS policy and procedure manuals. Full field limited to 41 characters (2 each for pre- and post-direction, 4 for suffix, 30 for name, plus spaces)

Note that there are only a few road segments in the county that have road names longer than 30 characters

**RD30POSTD (String)**

One or two character abbreviation for post-direction component (direction following the road name or suffix) of road names abbreviated to 30 characters.

E; East
N; North
S; South
W; West
NE; Northeast
NW; Northwest
SE; Southeast
SW; Southwest

**RD30NAME (String)**

Offical name of road abbreviate to 30 characters. Does not include pre- and post-direction or suffix components.

Note that there are very few road names in the county that exceed 30 characters in length.

**R_BEAT (Integer)**

Law (police) beat number on right side of road.
Value derived from a spatial overlay of the LAW_BEATS layer at a point 7' right of the segment midpoint.

**MIDYCOORD (Double)**

Y (Northing) coordinate of the mid-point of the segment. California State Plane, Zone 6, NAD83

**ADDSEGDT (Date)**

Date road segment was created

**TBMGRID (String)**

Thomas Brothers Map grid designation. Letter value indicates row and number value indicates column.

**FIREDRIV (String)**

Fire drivability as established by San Diego Fire-Rescue department. Used for routing. Exclusively for use by San Diego Fire-Rescue

Code: Description
Y; Yes
N; No

**TBMPAGE (String)**

Thomas Brothers Map page number created by an overlay of the mid-point of the road segment with the Thomas Brothers Map page layer.

**R_BLOCK (Double)**

US 2010 census block number on right side of road.
Value derived from a spatial overlay of the CENSUS_BLOCK layer at a point 7' right of the segment midpoint.

**L_BLOCK (Double)**

US 2010 census block number on left side of road.
Value derived from a spatial overlay of the CENSUS_BLOCK layer at a point 7' left of the segment midpoint.

**RJURISDIC (String)**

Jurisdiction code on right side of road.
Value derived from a spatial overlay of the JUR_MUNICIPAL layer at a point 7' right of the segment midpoint.

Code; Description
CB; Carlsbad
CN; Unincorporated
CO; Coronado
CV; Chula Vista
DM; Del Mar
EC; El Cajon
EN; Encinitas
ES; Escondido
IB; Imperial Beach
LG; Lemon Grove
LM; La Mesa
NC; National City
OC; Oceanside
PW; Poway
SD; San Diego
SM; San Marcos
SO; Solana Beach
ST; Santee
VS; Vista

**L_ZIP (Double)**

Five digit zip code number on left side of road.
Value derived from a spatial overlay of the ZIPCODE layer at a point 7' left of the segment midpoint.

**FNODE (Double)**

ID of the intersection point at the FROM point (start) of the segment. Refers to the unique intersection point ID attribute (INTERID) in the ROADS_INTERSECTION layer.
Each road segment has an associated intersection point at the start and end points.

**RIGHTWAY (Integer)**

Width of right-of-way

**LJURISDIC (String)**

Jurisdiction code on right side of road.
Value derived from a spatial overlay of the JUR_MUNICIPAL layer at a point 7' right of the segment midpoint.

Code; Description
CB; Carlsbad
CN; Unincorporated
CO; Coronado
CV; Chula Vista
DM; Del Mar
EC; El Cajon
EN; Encinitas
ES; Escondido
IB; Imperial Beach
LG; Lemon Grove
LM; La Mesa
NC; National City
OC; Oceanside
PW; Poway
SD; San Diego
SM; San Marcos
SO; Solana Beach
ST; Santee
VS; Vista

**RPSJUR (String)**

Public safety jurisdiction code on right side of road.
Value derived from a spatial overlay of the JUR_PUBLIC_SAFETY layer at a point 7' right of the segment midpoint.

Code; Description
CB; Carlsbad
CN; Unincorporated
CO; Coronado
CV; Chula Vista
DM; Del Mar
EC; El Cajon
EN; Encinitas
ES; Escondido
IB; Imperial Beach

LG; Lemon Grove
LM; La Mesa
NC; National City
OC; Oceanside
PW; Poway
SD; San Diego
SM; San Marcos
SO; Solana Beach
ST; Santee
VS; Vista

**Shape (Geometry)**
Feature geometry shape (multipoint, polyline, or polygon)

**TOYCOORD (Double)**
Y (Northing) coordinate of the end (TO) point of the segment. California State Plane, Zone 6, NAD83

**OBMH (String)**
On base military housing indicator (Y=yes or N=no)

**LHIGHADDR (Double)**
Highest address value on the left side of the road.
Generally the value at the TO (end) node.

**ABHIADDR (Double)**
Absolute high address of road segment regardless of left or right side.

**FUNCLASS (String)**
Functional Class

Code; Description
1; Freeway to freeway ramp
2; Light (2-lane) collector street
3; Rural collector road
4; Major road/4-lane major road
5; Rural light collector/local road
6; Prime (primary) arterial
7; Private street
8; Recreational parkway
9; Rural mountain road
A; Alley
B; Class I bicycle path
C; Collector/4-lane collector street
D; Two-lane major street
E; Expressway
F; Freeway
L; Local street/cul-de-sac
M; Military street within base
P; Paper street
Q; Undocumented
R; Freeway/expressway on/off ramp
S; Six-lane major street

T; Transitway
U; Unpaved road
W; Pedestrianway/bikeway

**R_PSBLOCK (Double)**
Public Safety Census Block

Value derived from a 7' offset from the midpoint of the road centerline to the SanGIS pseudo Census Blocks layer right of the road centerline.

These are "Pseudo" census blocks created by SanGIS and used exclusively for San Diego Police Department crime statistics. Usually the PSBLOCK will be the same as the census block but in some cases the census block is divided into two or more smaller portions so that no block spans two police beats. The Pseudo blocks are not published in the regular census block layer.

**TBMQUAD (String)**
Thomas Brothers quad value. Incomplete and no longer maintained. Thomas Bothers no longer publishes quad values. Attribute retained for use by legacy systems.

**POSTID (String)**
SanGIS internal identifier for last person or process to change road segment

**RD20FULL (String)**
Road full name including pre-direction and suffix (type). Road name component abbreviated to 20 characters per SanGIS policy and procedure manuals. Full field limited to 25 characters (1 for pre-direction, 2 for suffix, 20 for name, plus spaces). Post direction indicator is not included.

Maintained for legacy system compatibility.

**L_PSBLOCK (Double)**
Public Safety Census Block

Value derived from a 7' offset from the midpoint of the road centerline to the SanGIS pseudo Census Blocks layer left of the road centerline.

These are "Pseudo" census blocks created by SanGIS and used exclusively for San Diego Police Department crime statistics. Usually the PSBLOCK will be the same as the census block but in some cases the census block is divided into two or more smaller portions so that no block spans two police beats. The Pseudo blocks are not published in the regular census block layer.

**RLOWADDR (Double)**
Lowest address value on the right side of the road.
Generally the value at the FROM (start) node.

**RMIXADDR (String)**
Indicator showing whether odd and even (mixed) address are both shown on the right side of road.
Y=yes - right side addresses are both odd and even numbers
N=no - right side addresses are only odd or only even numbers

**ABLOADDR (Double)**
Absolute low address of road segment regardless of left or right side.

**LMIXADDR (String)**
Indicator showing whether odd and even (mixed) address are both shown on the left side of road.
Y=yes - left side addresses are both odd and even numbers
N=no - left side addresses are only odd or only even numbers

**LENGTH (Double)**
Road segment length

**SHAPE_LEN (Double)**

## Metadata Last Update: 2015-08-31

Regional GIS Data Warehouse (RGDW) Publication Stylesheet 1.4

# SECTION 12

## ROADS_INTERSECTION

# ROADS_INTERSECTION

## Tags

Intersection, road intersection points, San Diego County, street intersection

## Summary:

This dataset consists of points which represent intersection nodes at the end of individual road segments in the SanGIS ROADS_ALL layer.

## Feature Type: Point

## Number of Records: 125229

## Publication Date: 2015-11-02

## Date of Data (Temporal Period Extent): 2015-11-02

## Extent: The spatial extent of this dataset is San Diego County. The temporal extent is variable.

### Extent in Longitude Latitude

**North** 33.506772
**West** -117.597016 **East** -116.080214
**South** 32.530640

### Extent in the item's coordinate system

**North** 2128020.373250
**West** 6151037.000000 **East** 6613422.000000
**South** 1775475.000000

## Description:

This dataset consists of points representing intersection nodes at the end of individual road segments in the SanGIS ROADS_ALL layer (and derivative road layers). This feature class is linked to the SanGIS road layers via the intersection ID (INTERID) field. Key attributes of this dataset include intersection ID and intersection type of which there are 13 types (e.g. cul-de-sac, end segment and intersection). Further details of individual fields are included in field definitions below. Points are located at the end of each road segment. SanGIS road centerlines are broken into segments between intersection points. Intersections are created whenever two roads come together and at other locations as determined by SanGIS standards of practice. These additional locations include

places where the road name changes, where a road traverses a jurisidictional boundary, in certain cases where a road goes from one police beat to another, and at other places as defined by the TYPE attribute.

## Credits:

SanGIS with assistance from SanGIS JPA member users.

## Use Limitation:

Data is generalized and created for use in regional projects. Please refer to SanGIS GIS data end user use agreement and disclaimer which is available at the following: http://www.sangis.org/Legal_Notice.htm.

## Topics and Keywords

Topic Categories: Transportation

Themes:

Intersection, road intersection, streets, nodes

Places:

California, County of San Diego, Carlsbad, Coronado, Chula Vista, Del Mar, El Cajon, Encinitas, Escondido, Imperial Beach, Lemon Grove, La Mesa, National City, Oceanside, Poway, San Diego, San Marcos, Solana Beach, Santee, Vista

## Resource Details:

Status: On Going
Type: Vector
Update Frequency: Weekly
Next Update: Not specified

## Spatial Reference System:

Type: Projected
Reference: GCS_North_American_1983
Projection: NAD_1983_StatePlane_California_VI_FIPS_0406_Feet

Identifier: 2230
Codespace: EPSG
Version: 7.9.4

## Contacts:

Point of Contact

Operations Manager, Operations Manager

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(858) 874-7000

### Distributor

SanGIS
5510 Overland Avenue, Suite 230
San Diego, California. 92123
Data Librarian
Data Librarian
webmaster@sangis.org
(858) 874-7000

## Distribution Ordering Instructions:

Refer to SanGIS website (http://www.sangis.org/services/index.html) to obtain further information on mapping and data extraction services available from SanGIS.

## Fields:

### Overview:

Road intersection nodes are identified by the Intersection Identifier field - INTERID. The INTERID links to the TNODE and FNODE fields in the SanGIS ROADS_ALL layer (and derivative road layers).

The TYPE field identifies the intersection type. There are 13 types including intersection, cul-de-sac and end segment. TYPE provides the key to understanding why the road segment was terminated at that specific point.

### Citation:

None currently available

**__FID (OID)**
Internal feature number.

**INTERID (Double)**
Intersection ID. Unique node identifier.
Key field to link to TNODE and FNODE in road layers.

**X_COORD (Double)**
X (Easting) coordinate of point. California State Plane, Zone 6, NAD83

**RULEID (Double)**
This field is created by ArcGIS as part of the Feature Class Representation.

**POSTDATE (Date)**
Identifies last date that road intersection point was changed by SanGIS

editing staff

**Y_COORD (Double)**
Y (Northing) coordinate of point. California State Plane, Zone 6, NAD83

**Shape (Geometry)**
Feature geometry shape (multipoint, polyline, or polygon)

**PENDING (String)**
Map creating this road not yet recorded indicator (Y=yes or N=no)

**TYPE (String)**
Intersection type code. Code defines why the road segment is terminated at that point

Code, Description
B, Police law beat change
C, Cul-de-sac end point
D, Fire driveability attribute change
E, End of road
I, "Normal" Intersection of 3 or more segments
J, Jurisdiction boundary change (City/Muni only)
N, Road Name Changes
P, Pseudo (Under/over crossings)
R, Under Review (Type not yet verified)
Q, Undocumented roads only (Dispatch agency use only)
T, Census Tract change
X, Multiple types of changes
Z, Fire Demand Zone change (City of San Diego use only)

**POSTID (String)**
Internal SanGIS ID of the last person or process to edit this intersection point

## Metadata Last Update: 2015-11-02

Regional GIS Data Warehouse (RGDW) Publication Stylesheet 1.4

# SECTION 13

## STATE_WITH_COUNTY_BOUNDARIES

# State_With_County_Boundaries

## Tags

government, county boundaries, county boundary, county line, county, counties, boundary, border, borders, boundaries, location, Almeda County, Alpine County, Amador County, Butte County, Calaveras County, Colusa County, Contra Costa County, Del Norte County, El Dorado County, Fresno County, Glenn County, Humboldt County, Imperial County, Inyo County, Kern County, Kings County, Lake County, Lassen County, Los Angeles County, Madera County, Marin County, Mariposa County, Mendocino County, Merced County, Modoc County, Mono County, Monterey County, Napa County, Nevada County, Orange County, Placer County, Plumas County, Riverside County, Sacramento County, San Benito County, San Bernardino County, San Diego County, San Francisco County, San Joaquin County, San Luis Obispo County, San Mateo County, Santa Barbara County, Santa Clara County, Santa Cruz County, Shasta County, Sierra County, Siskiyou County, Solano County, Sonoma County, Stanislaus County, Sutter county, Tehama County, Trinity County, Tulare County, Tuolumne County, Ventura County, Yolo County, Yuba County, California

## Summary:

This feature class is used for cartographic purposes, for generating staistical data, and for clipping data. Ideally, state and federal agencies should be using the same framework data for common themes such as county boundaries. This layer provides an initial offering as "best available" at 1:24,000 scale.

## Feature Type: Polygon

## Number of Records: 10798

## Publication Date: 2014-02-14

## Date of Data (Temporal Period Extent): 2014-02-14 to

## Extent: State of California Publication Date

### Extent in Longitude Latitude

**North** 42.068507
**West** -124.518111 **East** -113.497869
**South** 32.423754

### Extent in the item's coordinate system

**North** 450023.161800
**West** -374980.543100 **East** 540082.750000

**South** -604495.794300

## Description:

***** BACKGROUND *****
In late 1996, the Dept of Conservation (DOC) surveyed state and federal agencies about the county boundary coverage they used. As a result, DOC adopted the 1:24,000 (24K) scale U.S. Bureau of Reclamation (USBR) dataset (USGS source) for their Farmland Mapping and Monitoring Program (FMMP) but with several modifications. Detailed documentation of these changes is provided by FMMP and included in the lineage section of the metadata.
A dataset named cnty24k97_1 was made available (approximately 2004) through the California Department of Forestry and Fire Protection - Fire and Resource Assessment Program (CDF - FRAP) and the California Spatial Information Library (CaSIL). In late 2006, the Department of Fish and Game (DFG) reviewed cnty24k97_1. Comparisons were made to a high-quality 100K dataset (co100a/county100k from the former Teale Data Center GIS Solutions Group) and legal boundary descriptions from ( http://www.leginfo.ca.gov ). The cnty24k97_1 dataset was missing Anacapa and Santa Barbara islands. DFG added the missing islands using previously-digitized coastline data (coastn27 of State Lands Commission origin), corrected a few county boundaries, built region topology, added additional attributes, and renamed the dataset to county24k.
In 2007, the California Mapping Coordinating Committee (CMCC) requested that the California Department of Forestry and Fire Protection (CAL FIRE) resume stewardship of the statewide county boundaries data. CAL FIRE adopted the changes made by DFG and collected additional suggestions for the county data from DFG, DOC, and local government agencies. CAL FIRE incorporated these suggestions into the latest revision, which has was renamed cnty24k09_1.
***** THIS VERSION*****
This version of the county dataset was created as a result of an effort to improve the coastal linework. It uses the previous interior linework from the cnty24k13_1 data, but replaces the coastal linework (including islands and inlets) based on NOAA's ERMA coastal dataset (which used NAIP 2010). In addition to the improved linework, additional coding was added to differentiate inlets and bays, islands, and manmade structures such as piers and breakers.
This dataset is one of several available datasets that were created as a group designed to work in topological sync with each other. These "paired" datasets include a basic county dataset (cnty14_1_basic), a basic state dataset (state14_1), an ocean dataset (ocean14_1), a 3 nautical mile CA coastal buffer (cnty14_1_coastbuff), and country/state datasets (both full and neighbor-only - cntrystate14_1_full and cntrystate14_1_neighbor, respectively). Further details about these paired datasets can be found in their respective metadata.
**This specific dataset**represents the full detailed county dataset with all coding (islands, inlets, constructed features, etc). The user has the freedom to use this coding to create definition queries, symbolize, or dissolve to create a more generalized dataset as needed.

## Credits:

U.S. Bureau of Reclamation, California Department of Conservation, California Department of Fish and Game, California Department of Forestry and Fire Protection, National Oceanic and Atmospheric Administration

## Use Limitation:

DISCLAIMER :

The State of California and the Department of Forestry and Fire Protection make no representations or warranties regarding the accuracy of data or maps. The user will not seek to hold the State or the Department liable under any circumstances for any damages with respect to any claim by the user or any third party on account of or arising from the use of data or maps.
OTHER LIMITATIONS :
There are no restrictions on distribution of the data by users. However, users are encouraged to refer others to the Department of Forestry and Fire Protection to acquire the data, in case updated data become available. The user will cite the California Department of Forestry and Fire Protection as the original source of the data, but will clearly denote cases where the original data have been altered, updated, or in any way changed from the original condition.

## Topics and Keywords

Topic Categories: Boundaries

Themes:

government, county boundaries, county boundary, county line, county, counties, boundary, border, borders, boundaries, location

Places:

Almeda County, Alpine County, Amador County, Butte County, Calaveras County, Colusa County, Contra Costa County, Del Norte County, El Dorado County, Fresno County, Glenn County, Humboldt County, Imperial County, Inyo County, Kern County, Kings County, Lake County, Lassen County, Los Angeles County, Madera County, Marin County, Mariposa County, Mendocino County, Merced County, Modoc County, Mono County, Monterey County, Napa County, Nevada County, Orange County, Placer County, Plumas County, Riverside County, Sacramento County, San Benito County, San Bernardino County, San Diego County, San Francisco County, San Joaquin County, San Luis Obispo County, San Mateo County, Santa Barbara County, Santa Clara County, Santa Cruz County, Shasta County, Sierra County, Siskiyou County, Solano County, Sonoma County, Stanislaus County, Sutter county, Tehama County, Trinity County, Tulare County, Tuolumne County, Ventura County, Yolo County, Yuba County, California

## Resource Details:

Status: Under Development
Type: Vector
Update Frequency: Irregular
Next Update: Not specified

## Spatial Reference System:

Type: Projected
Reference: GCS_North_American_1983
Projection: NAD_1983_California_Teale_Albers

Identifier: 3310

Codespace: EPSG
Version: 7.11.2

## Contacts:

### Point of Contact

FRAP Data Contact, FRAP Data Contact
CALFIRE-FRAP
1300 U Street
Sacramento, CA. 95818

FRAPdatacontact@fire.ca.gov
916-327-3939

### Distributor

CALFIRE-FRAP
1300 U Street
Sacramento, CA. 95818
FRAP Data Contact
FRAP Data Contact
FRAPdatacontact@fire.ca.gov
916-327-3939

## Distribution Ordering Instructions:

Dataset available from FRAP

## Fields:

### Overview:

The JUR_STATE dataset contains the following fields:
TYPE
ISLAND
WATER
LOCASE
COUNTY_ABBREV
COUNTY
COUNTY_CODE
COUNTY_FIPS
SANGIS_JUR_STATE_AREA
NAME

### Citation:

State of California GeoPortal Site
(http://portal.gis.ca.gov/geoportal/catalog/main/home.page).

**__FID (OID)**
Internal feature number.

**Shape (Geometry)**
Feature geometry.

**Shape_Area (Double)**
Area of feature in internal units squared.

**WATER (String)**
For water features, further defines it as "Pacific Ocean", "San Francisco Bay", or "Misc Bay or Inlet".

Mainland and island features will be NULL.

Constructed features should never be NULL for this field – this coding distinguishes contructed features that stick out into the ocean from those that are within bays (ie ones to be potentially "left off" from those that should be potentially "dissolved or blended in")

**LOCASE (String)**
County Name, e.g. Mendocino County

**COUNTY (Integer)**
County Code

Code, County_Code, County FIPS, Name
1, 01, 001, Almeda
2, 02, 003, Alpine
3, 03, 005, Amador
4, 04, 007, Butte
5, 05, 009, Calaveras
6, 06, 011, Colusa
7, 07, 013, Contra Costa
8, 08, 015, Del Norte
9, 09, 017, El Dorado
10, 10, 019, Fresno
11, 11, 021, Glenn
12, 12, 023, Humboldt
13, 13, 025, Imperial
14, 14, 027, Inyo
15, 15, 029, Kern
16, 16, 031, Kings
17, 17, 033, Lake
18, 18, 035, Lassen
19, 19, 037, Los Angeles
20, 20, 039, Madera
21, 21, 041, Marin
22, 22, 043, Mariposa
23, 23, 045, Mendocino
24, 24, 047, Merced
25, 25, 049, Modoc
26, 26, 051, Mono
27, 27, 053, Monterey
28, 28, 055, Napa
29, 29, 057, Nevada
30, 30, 059, Orange
31, 31, 061, Placer
32, 32, 063, Plumas
33, 33, 065, Riverside
34, 34, 067, Sacramento

35, 35, 069, San Benito
36, 36, 071, San Bernardino
37, 37, 073, San Diego
38, 38, 075, San Francisco
39, 39, 077, San Joaquin
40, 40, 079, San Luis Obispo
41, 41, 081, San Mateo
42, 42, 083, Santa Barbara
43, 43, 085, Santa Clara
44, 44, 087, Santa Cruz
45, 45, 089, Shasta
46, 46, 091, Sierra
47, 47, 093, Siskiyou
48, 48, 095, Solano
49, 49, 097, Sonoma
50, 50, 099, Stanislaus
51, 51, 101, Sutter
52, 52, 103, Tehama
53, 53, 105, Trinity
54, 54, 107, Tulare
55, 55, 109, Tuolumne
56, 56, 111, Ventura
57, 57, 113, Yolo
58, 58, 115, Yuba

**COUNTY_ABB (String)**
**TYPE (String)**

Feature Type. Either "Land", "Water" or "Constructed"(ie Pier, Breaker, etc).

Mainland and islands are coded as "Land". Mainland vs island can be distinguished by the ISLAND field.

Ocean and bays are coded as "Water". Ocean vs Bay can be distinguished by the WATER field.

**COUNTY_COD (String)**
**COUNTY_FIP (String)**
**SANGIS_JUR (Double)**
**ISLAND (String)**

For island features, further defines it as "Channel Islands", "Farallon Islands", "Coastal Islands", "Coastal Islands 24k", "Bay Islands", or "Port of Loas Angeles".

Mainland, and water features will be NULL.

Small islands around the Channel and Farallon islands will be coded as "Coastal Islands".

Both SF Bay and misc bay islands are coded as "Bay islands". They can be distinguished further with the WATER field.

Constructed features may also be NOT NULL for this field if the constructed feature was part of an island rather than the mainland.

**NAME (String)**

County Name in Capitals, e.g. DEL NORTE

**SHAPE_LEN (Double)**

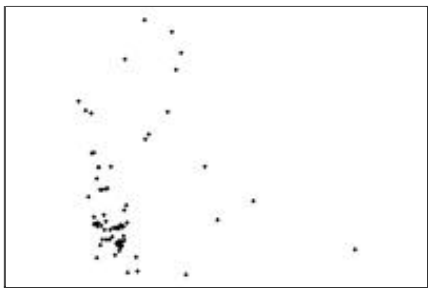
## Metadata Last Update: 2015-04-03

Regional GIS Data Warehouse (RGDW) Publication Stylesheet 1.4

# SECTION 14

## TOURIST_ATTRACTIONS

# majattrs



## Tags
There are no tags for this item.

## Summary:
There is no summary for this item.

## Feature Type: Point

## Number of Records: 91

## Publication Date:
Date not provided by data owner.

## Date of Data (Temporal Period Extent):
Date not provided by data owner.

## Extent:

### Extent in Longitude Latitude

**North** 33.366118
**West** -117.313553 **East** -116.355328
**South** 32.623758

### Extent in the item's coordinate system

**North** 2076857.171484
**West** 6236933.697478 **East** 6529236.997006
**South** 1808374.728958

## Description:
There is no description for this item.

## Credits:
There are no credits for this item.

## Use Limitation:
There are no access and use limitations for this item.

## Resource Details:

Status: Not specified
Type: Vector
Update Frequency: Not specified
Next Update: Not specified

## Spatial Reference System:

Type: Projected
Reference: GCS_North_American_1983
Projection: NAD_1983_StatePlane_California_VI_FIPS_0406_Feet

Identifier: 2230
Codespace: EPSG
Version: 7.11.2

## Contacts:

Point of Contact Not specified

## Fields:

**__FID (OID)**
Internal feature number.

**Shape (Geometry)**
Feature geometry.

**STATUS (SmallInteger)**
**NAME (String)**
**NAIC (Integer)**
**ESTAB (SmallInteger)**
**ADDR (String)**
**EMP (Double)**

## Metadata Last Update: 2015-04-22

Regional GIS Data Warehouse (RGDW) Publication Stylesheet 1.4

# SECTION 15

## VICINITY

# Vicinity

## Tags

County of San Diego, Vicinity, Los Angeles County, Orange County, Baja California, Riverside County, Imperial County, Pacific Ocean

## Summary:

This dataset comprises polygons of Counties and water bodies in the vicinity of San Diego County for cartographic purposes.

## Feature Type: Polygon

## Number of Records: 6

## Publication Date: 2003-01-01

## Date of Data (Temporal Period Extent): 2003-01-01

## Extent: publication date

### Extent in Longitude Latitude

**North** 34.847804
**West** -120.660517 **East** -112.443325
**South** 27.948376

### Extent in the item's coordinate system

**North** 2616101.750000
**West** 5237077.780000 **East** 7704732.500000
**South** 129482.140000

## Description:

This dataset comprises polygons of Counties and water bodies in the vicinity of San Diego County for cartographic purposes.
Data is generalized and created for use in regional projects.

## Credits:

SanGIS

## Use Limitation:

Data is generalized and created for use in regional projects. Please refer to SanGIS data end user use agreement and disclaimer which is available at the following: http://www.sangis.org/Legal_Notice.htm.

## Topics and Keywords

Topic Categories: Boundaries Oceans

Themes:

Vicinity

Places:

County of San Diego, Los Angeles County, Orange County, Baja California, Riverside County, Imperial County, Pacific Ocean

## Resource Details:

Status: Completed
Type: Vector
Update Frequency: Not Planned
Next Update: Not specified

## Spatial Reference System:

Type: Projected
Reference: GCS_North_American_1983
Projection: NAD_1983_StatePlane_California_VI_FIPS_0406_Feet

Identifier: 2230
Codespace: EPSG
Version: 7.11.2

## Contacts:

Point of Contact

Data Librarian, Data Librarian
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Distributor

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## Distribution Ordering Instructions:

Refer to SanGIS website (http://www.sangis.org/services/index.html) to obtain further information on mapping and data extraction services available from SanGIS.

## Fields:

### Overview:

The JUR_VICINITY dataset contains the following field:
NAME: Name of vicinity - a surrounding county, Baja or the Pacific Ocean

### Citation:

None

**__FID (OID)**
Internal feature number.

**SHAPE (Geometry)**
Feature geometry.

**NAME (String)**
Name of vicinity that polygon represents - a surrounding county, State of Baja California or the Pacific Ocean

**SHP_ID_ARE (Double)**
Area of feature in internal units squared (duplicate field).

**SHP_ID_LEN (Double)**

## Metadata Last Update: 2015-04-03

Regional GIS Data Warehouse (RGDW) Publication Stylesheet 1.4

# APPENDIX 9

## CITY OF SAN DIEGO
## COUNCIL POLICY 600-08

Included herein is the Council Policy 600-08 for the conversion of the City of San Diego overhead utility lines.

CITY OF SAN DIEGO, CALIFORNIA

# COUNCIL POLICY

CURRENT

| | |
|---|---|
| SUBJECT: | UNDERGROUND CONVERSION OF UTILITY LINES BY UTILITY COMPANY |
| POLICY NO.: | 600-08 |
| EFFECTIVE DATE: | May 28, 2002 |

BACKGROUND:

Underground conversion of utility lines and associated facilities by companies is required when, after public hearing, the City Council finds that the public health, safety or general welfare would require the removal of poles, overhead wires and associated overhead structures with the underground installation of wires and facilities for supplying electric, communication, community antenna television or similar or associated service within a designated area, and the City Council has, by resolution declared the designated area an Underground Utility District.

PURPOSE:

To establish a policy for conversion of overhead utility lines by utility companies when the City Council determines that undergrounding of overhead utilities is in the interest of the public health, safety and welfare; and asserts its right to require conversion of overhead utilities in the exercise of its police powers.

POLICY:

It shall be the policy of the Council to:

A. Exercise the City's police powers to order, and enforce as necessary, utility companies to convert overhead utilities to underground when it is in the interest of the public health, safety and welfare of the general public. Such power shall not be restricted in any form by any qualifying criteria except that such lines or facilities must be within the public right of way, City owned property, or other property within the jurisdiction of the City Council.

B. Allocate and prioritize projects as follows:

1. All utilities within the City of San Diego with overhead utilities shall provide to the City Manager each year not later than January 31st a complete and comprehensive list of all overhead utility locations in a format as prescribed by the City Manager. This list shall be accurate to the nearest degree reasonably possible and no utility will be held liable for accidental omissions or errors.

2. The City Manager shall bring before the City Council a master plan for CPUC Rule 20 projects and a master plan for non CPUC Rule 20 projects, for approval each year not later than June 30th, reflecting the complete list of all overhead utilities within the City, prioritized in order based on the following criteria:

a. Qualified CPUC Rule 20A Projects:

1st Priority: Any previously funded underground utility district which was subsequently removed from funded list and placed on deferment.

2nd Priority: All projects adjacent to a major roadway reconstruction, not including normal roadway maintenance, or other public improvement projects where appropriate.

3rd Priority: All major or collector streets contiguous to previous undergrounding.

4th Priority: Any street adjacent to public facilities, schools, trolley stations parks, and recreation centers.

5th Priority: All major or collector streets with scenic views.

6th Priority: All other major or collector streets.

7th Priority: All other qualified Rule 20A projects.

b. Non-Rule 20A (Surcharge) projects:

Shall consist of project " blocks" composed of public residential streets and public alley ways to be undergrounded. The project blocks shall be prioritized and selected by the City Council and shall be proportionate to the amount of surcharge allocation for each Council District available for any given allocation year and in keeping with engineering feasability.

c. No Canyons or other open spaces shall be allocated until such time as all public Major, Collector, Residential and Alley ways that can feasibly be undergrounded are complete.

3. Each year not later than June 30th, the City Council will approve an allocation of projects totaling not less than an amount equal to the electric utility undergrounding surcharge estimated from the proposed budget, July 1 through June 30, plus available funds embedded in electric rates.

a. In consultation with SDG&E, the Council will approve a list of proposed projects that meet the criteria of the Public Utilities Commission Interim Order, Decision No. 73078, Case No. 8209 (henceforth referred to as PUC Rule 20A), at an annual allocation rate equal to the amount embedded in electric rates, plus or minus any adjustments occurring from actual expenditures. In as much as possible this list will be in keeping with the master plan of streets to be converted.

1. The CPUC Rule 20 allocation list shall reflect the priorities as set forth in Section (B)(2)(a).

(a) The division of the total PUC Rule 20 allocation available for any given year shall be as follows:

1. 10% shall be allocated at the discretion of the Mayor, with approval of the City Council.

2. 45% shall be allocated equally among all Council Districts with qualified Rule 20 projects.

3. 45% shall be allocated among all Council Districts with qualified Rule 20 projects based on the percentage amount of Major and Collector street miles of overhead lines within that district to the City wide Major and Collector street miles of overhead lines.

2. For a project to qualify as a 20A project, it must be determined, after consultation with the electric utility that such undergrounding is in the general public interest for one or more of the following reasons:

(a) Such undergrounding will avoid or eliminate an unusually heavy concentration of overhead electric facilities;

(b) The street or right-of-way is extensively used by the general public and carries a heavy volume of pedestrian or vehicular traffic; and

(c) The street or road or right-of-way adjoins or masses through a civic area or public recreation area or an area of unusual scenic interest to the general public.

b. The Council will approve a list of proposed project blocks at an annual allocation rate equal to the amount of available electric underground utility surcharge plus or minus any adjustments occurring from actual expenditures. In as much as possible this list will be in keeping with the master plan of streets to be converted.

1. The Surcharge allocation list shall reflect the priorities as set forth in Section (B)(2)(b).

(a) The division of the total Surcharge allocation available for any given year shall be as follows:

1. 10% shall be allocated at the discretion of the Mayor, with approval of the City Council.

2. 45% shall be allocated equally among all Council Districts with public residential streets and public alleys with overheard electrical facilities.

3. 45% shall be allocated equally among all Council Districts with public residential streets and public alleys with overhead electrical, based on the percentage amount of public residential and public alley miles of overhead lines within that district to the City wide public residential and public alley street miles of overhead lines.

(b) Each City Council District with overhead residential and alley lines shall allocate one underground surcharge "block" project per year adjusted for the allocation amount for any given year.

1. In as much as possible blocks will be allocated according to the master plan.

2. In order to avoid a "patchwork" of overhead and underground utility systems. Project "blocks" will be allocated as much as possible to be adjacent to previous "blocks."

3. Project "blocks" can be amended for any given year as part of the master plan review and approval process, taking into account engineering and allocations constraints.

4. For any given year, no allocation for surcharge project "blocks" may be split into more than one block, or pieces of more than one block.

2. At the discretion of any given Council District, surcharge allocations for any given year, may include an allocation contribution of surcharge funds towards some assessment district costs for the conversion of overhead lines; or towards other privately financed underground conversion project costs, according to the following provisions:

(a) No surcharge funds may be contributed towards any initial deposit used for design or project feasibility purposes.

(b) A contribution of surcharge funds may not exceed 75% for any assessment district formation cost or other project formation costs.

(c) No maximum limit on surcharge fund contribution towards construction costs.

(d) Any surcharge funds contributed towards an assessment district or other privately funded underground conversion project shall be subtracted from that districts pro rata allocation of surcharge funds as defined in section B.3.b.1.(a).

(e) Any contribution of surcharge funds towards an assessment district or other privately funded underground conversion project shall be identified as part of the yearly allocation list of underground conversion projects. Allocation of surcharge funds may not occur prior to approval of the annual allocation.

3. No surcharge allocations or portions of surcharge allocations may be used to fund additional projects that meet CPUC Rule 20 criteria.

4. Underground Utility Districts may include all types and size of electrical transmission and distribution systems, or combination of systems.

5. At the discretion of the City Manager the City may, at its option and in accordance with any SDG&E company rules, perform any or all design or construction work to convert electric utilities within Underground Utility Districts provided adequate notice is provided to SDG&E.

a. A minimum of one years notice is required should the City wish to design or construct up to four projects totaling not more than $5 million dollars in estimated work.

b. A minimum of two years notice is required should the City wish to perform design or construction on more than four projects or more than $5 million dollars in estimated work.

C. Expend undergrounding funds as follows:

1. Not less than quarterly SDG&E will deposit with the City Auditor an amount of monies equal to the surcharge to be used by the City solely for the undergrounding of electrical lines and associated activities within the City of San Diego.

2. These funds shall be expended on the following costs related to undergrounding:

a. The design and construction for the underground conversion of electrical distribution, transmission (whenever feasible), and associated structures within Underground Utility Districts that are not funded with PUC Rule 20A funds.

b. Providing and installing all necessary street lighting associated with any underground conversion project, including PUC Rule 20A projects.

c. Any pavement resurfacing or slurry seal resurfacing required as a result of any underground conversion project, including PUC Rule 20A projects.

d. All City construction management costs associated with underground conversion activities, including PUC Rule 20A projects.

e. Any tree replacement required as a result of any underground conversion project, including PUC Rule 20A projects.

f. Any value engineering or similar studies relating to underground conversion projects or activities.

g. Costs of conversion on private property.

h. All environmental compliance costs as may be required.

i. All directly related expenses to underground electrical systems.

j. Expenses related to joint trench costs and installation costs of conduit and substructures; as provided for in any cable company franchise agreements or other agreement.

D. Monitor expenditures as follows:

1. Not more than once per year, SDG&E will provide to the City full and complete disclosure of requested information and supporting documentation as deemed necessary by the City Manager or a designated consultant to perform a value engineering study of the efficiency and cost effectiveness of the design and construction method being utilized by the utility in order to continually improve future practices.

2. At least quarterly or at the written request of the City Manager, SDG&E will provide to the City a detailed analysis of expenditures for each quarter ending March 31, June 30, September 30 and December 31. It shall be due to the City Manager not later than the 15th day of the following month. The report will include all projects both Rule 20A and non Rule 20A. The format of such a report to be designated by the City Manager.

3. Not later than January 31st and June 30th of each year, City staff shall report to City Council the status of all allocated underground conversion projects, as well as the status of expenditures and underground conversion account status.

E. Require affected utility companies to:

1. Utilize joint trenches when technically feasible. Any utility that believes joint trenching is not feasible, must provide the City Manager with a timely, written request for a waiver of this requirement.

2. Not delay the implementation of any or all underground activities in regards to established Underground Conversion Districts because of the short or long term future probability of any possible utility relocation.

3. Offer private property owners within the Underground District the complete conversion of all necessary facilities on private property, at no expense to the property owner, which would allow the property owner to receive underground service.

   a. Property owners who decline offers from utility companies for conversion of property within Underground Conversion Districts will be responsible for the conversion of their property at their sole expense and will not be reimbursed for any work performed on their property to receive underground service.

   b. Utility Companies shall provide to the City Manager, not less than 180 days before the required completion date of the project, written notification of all property owners who refuse such assistance.

F. Require that the following time lines and milestones be met by all utilities:

1. All Underground Conversion Districts shall be completed at a date 30 months to the day from the date that the City Council resolution establishes the yearly underground allocation list. If any utility believes that it cannot comply with this requirement, a timely, written request for a waiver must be submitted to the City Manager for approval.

   a. Within 30 calender days from the date that the City Council resolution establishes the underground allocation list, the City Manager will inform, in writing, all affected parties of the dates for required completion.

   b. Within 15 calendar days of letter from the City Manager establishing project completion dates, affected parties may appeal in writing to the City Manager the proposed completion dates.

   c. Within 15 calendar days of appeal the City Manager will notify affected utility companies of any change of established completion dates appeal, or denial thereof.

   d. All utilities must comply with the milestone dates for completion of work or services within the timelines established in the San Diego Municipal Code. These milestone dates shall commence from the date that the City Council establishes the Underground Utility District.

2. Not later than the 15th of each month, or at the written request of the City Manager, each utility company will provide to the City Manager an updated schedule of dates for the completion of milestones for every project which the Council has created an Underground Utility District affecting that utility company. Milestone definitions and format of report will be designated by the City Manager so that all utilities report in a uniform fashion.

3. Utilities who fail to meet established project milestone dates as prescribed by the City Engineer shall be subject to applicable remedies as prescribed by the San Diego Municipal Code.

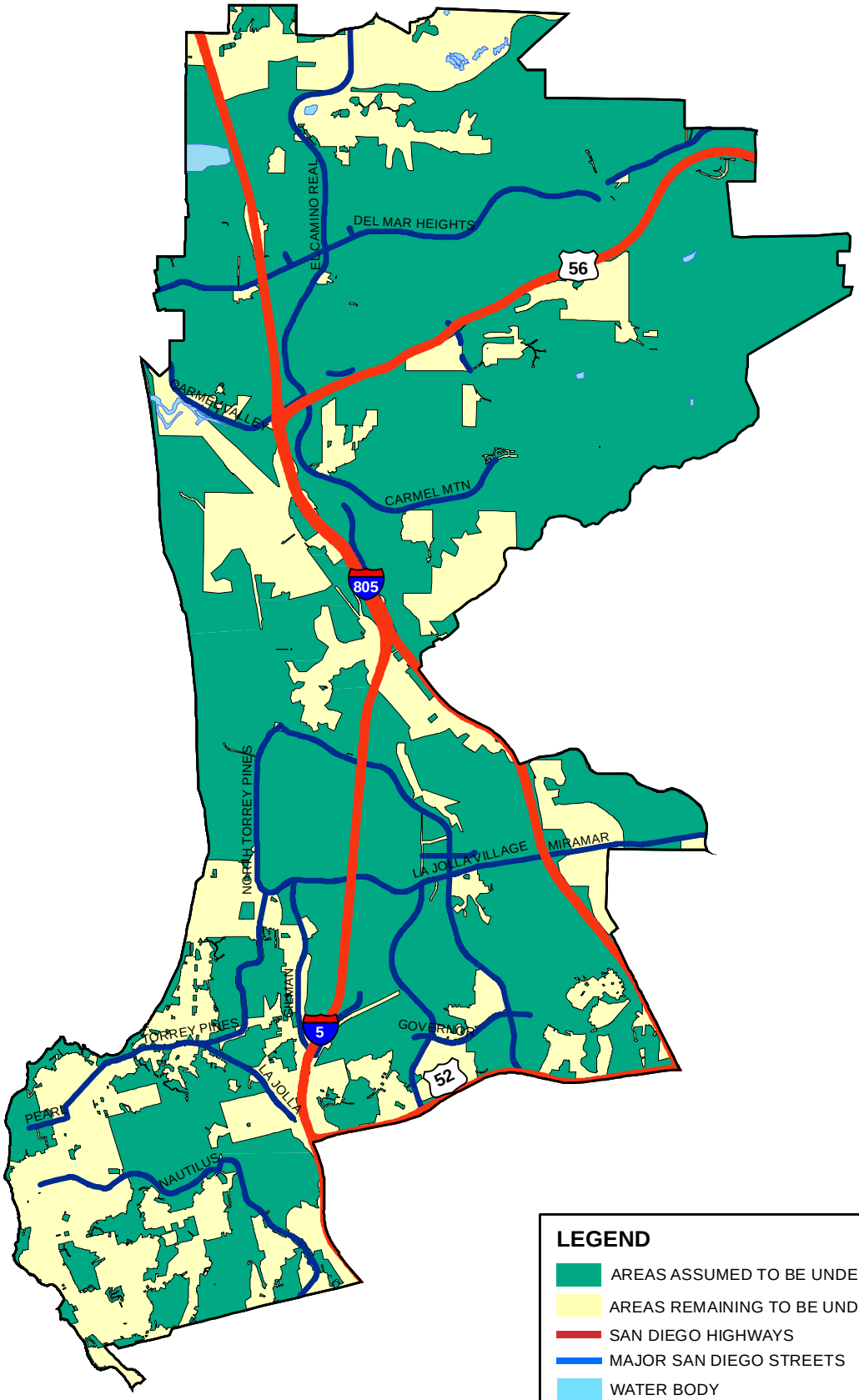
G. Where property owners desire an underground conversion in situations other than those meeting one of the criteria for conversion at company expense, property owners are required to pay the cost of undergrounding, less those credits as set forth in the applicable company rules as approved by the Public Utilities Commission. The cost for such conversion work, inclusive of the conversion of the property owner's service, may be financed by the use of the appropriate assessment district proceedings.

HISTORY:

Adopted by Resolution R-194286 07/23/1968
Amended by Resolution R-205402 04/20/1972
Amended by Resolution R-292223 09/27/1999
Amended by Resolution R-294335 12/05/2000
Amended by Resolution R-295893 12/11/2001
Amended by Resolution R-296565 05/28/2002

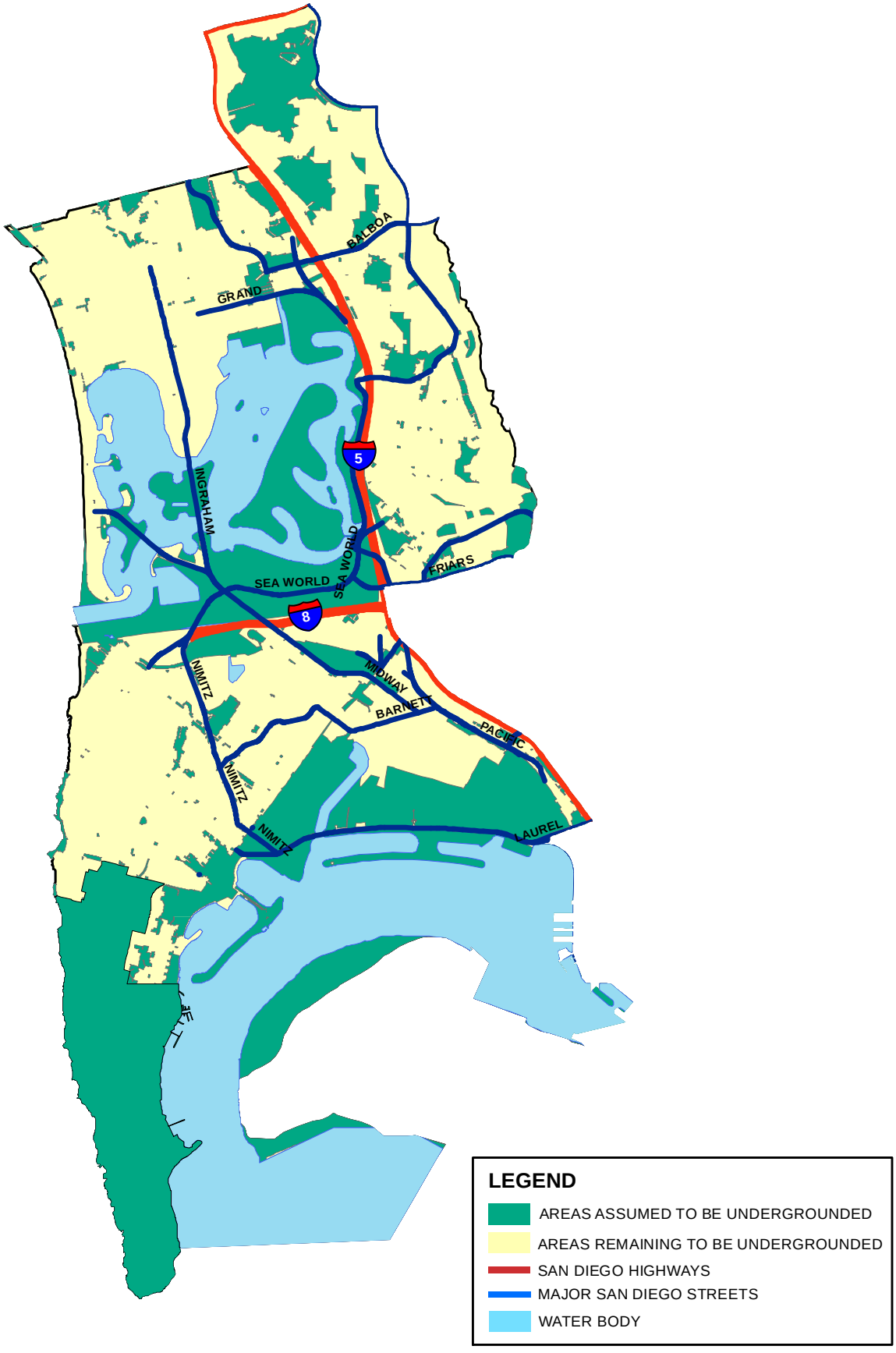
# DISTRICT 1

UNDERGROUNDING STATUS MAP



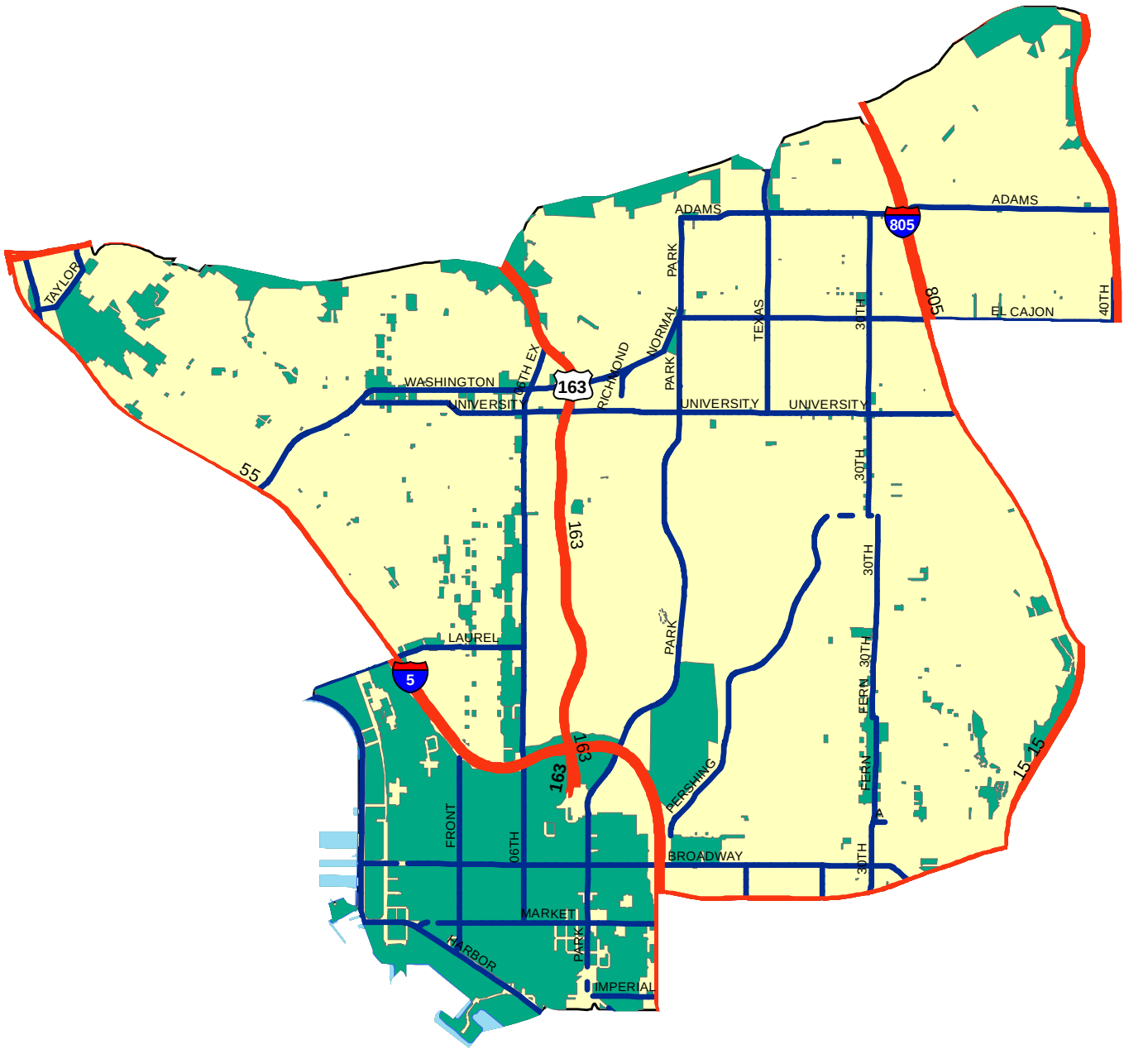
# DISTRICT 2

UNDERGROUNDING STATUS MAP



# DISTRICT 3

UNDERGROUNDING STATUS MAP

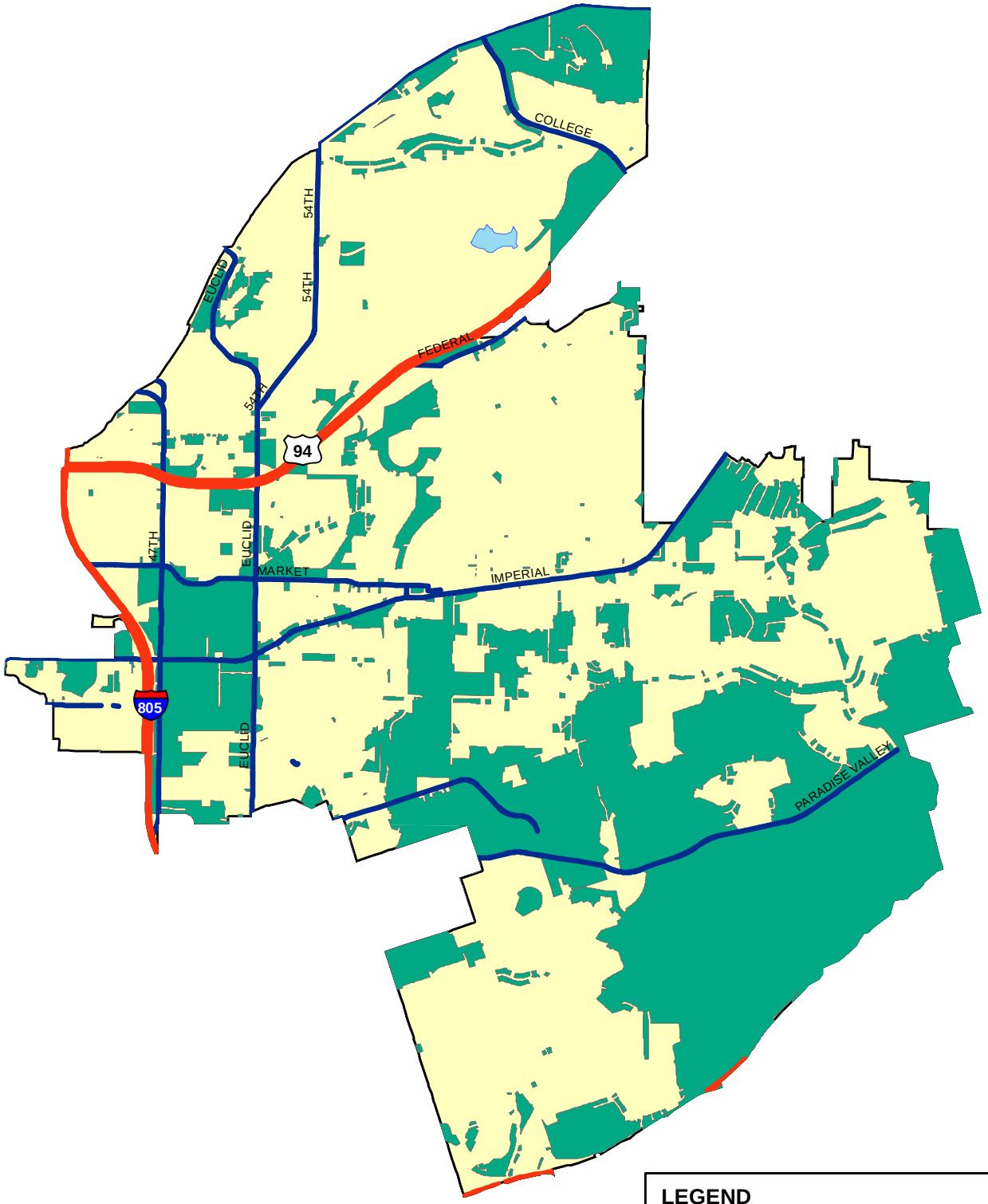



**LEGEND**

- AREAS ASSUMED TO BE UNDERGROUNDED
- AREAS REMAINING TO BE UNDERGROUNDED
- SAN DIEGO HIGHWAYS
- MAJOR SAN DIEGO STREETS
- WATER BODY

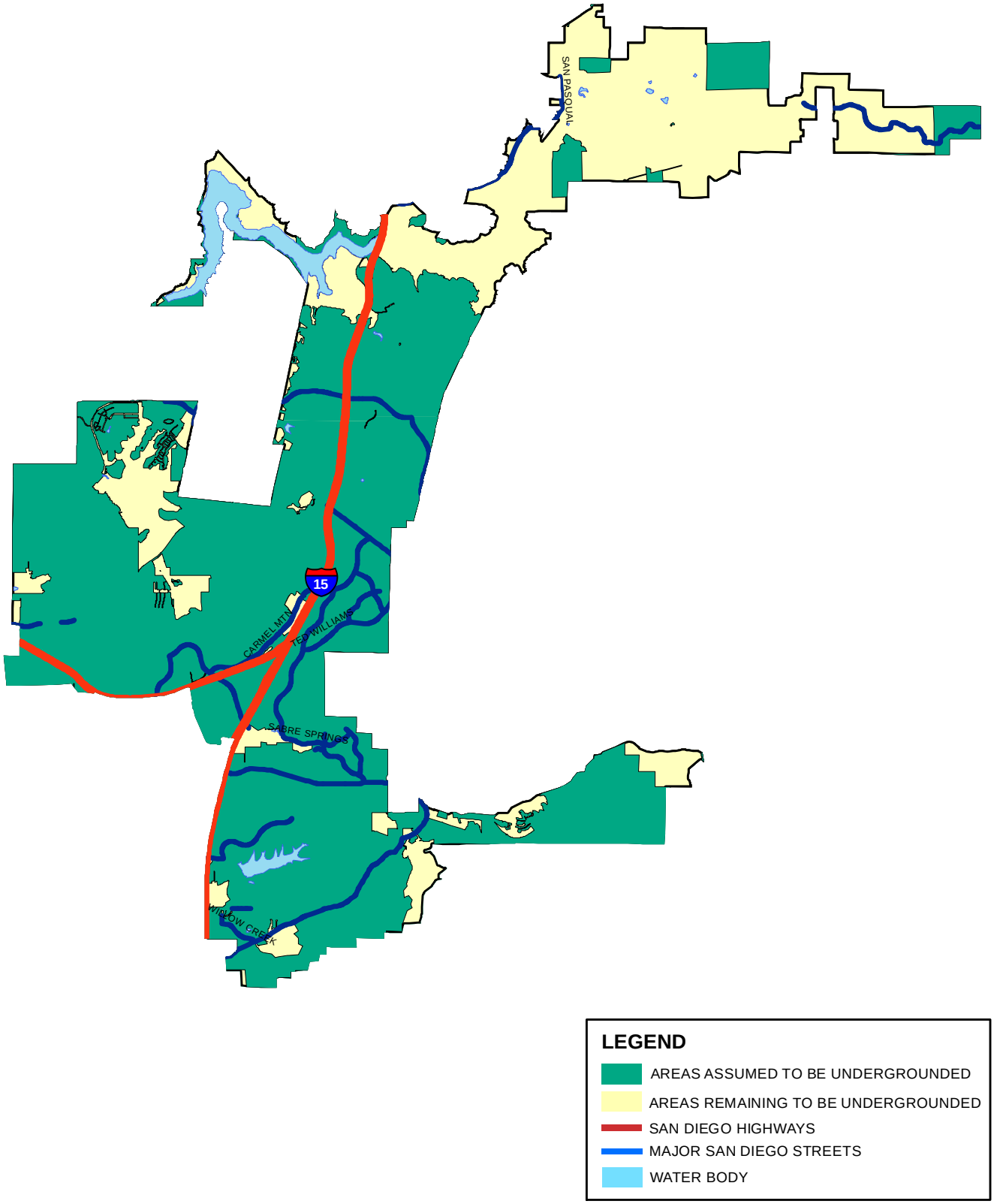
# DISTRICT 4

UNDERGROUNDING STATUS MAP



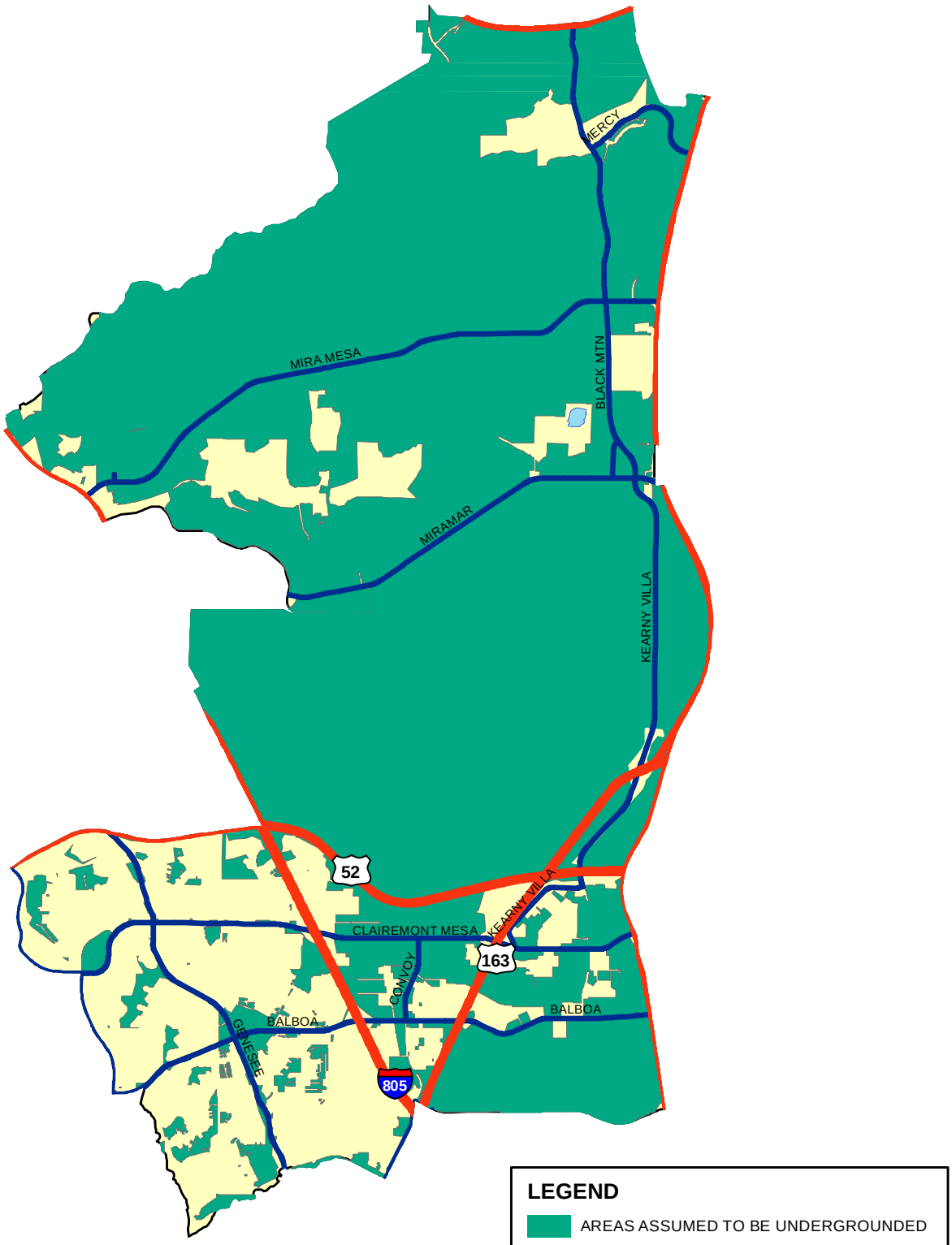
# DISTRICT 5

UNDERGROUNDING STATUS MAP



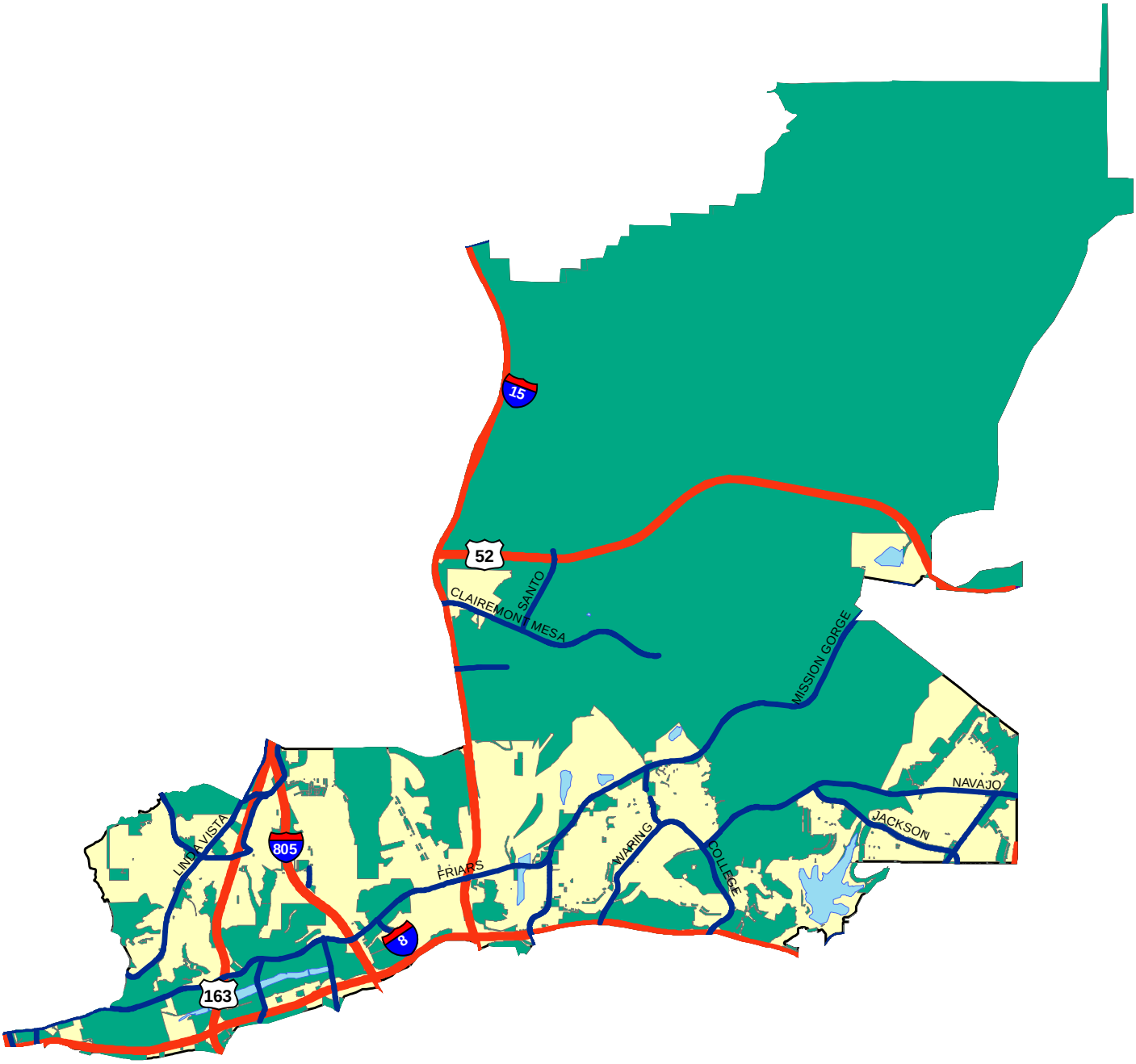
# DISTRICT 6

UNDERGROUNDING STATUS MAP



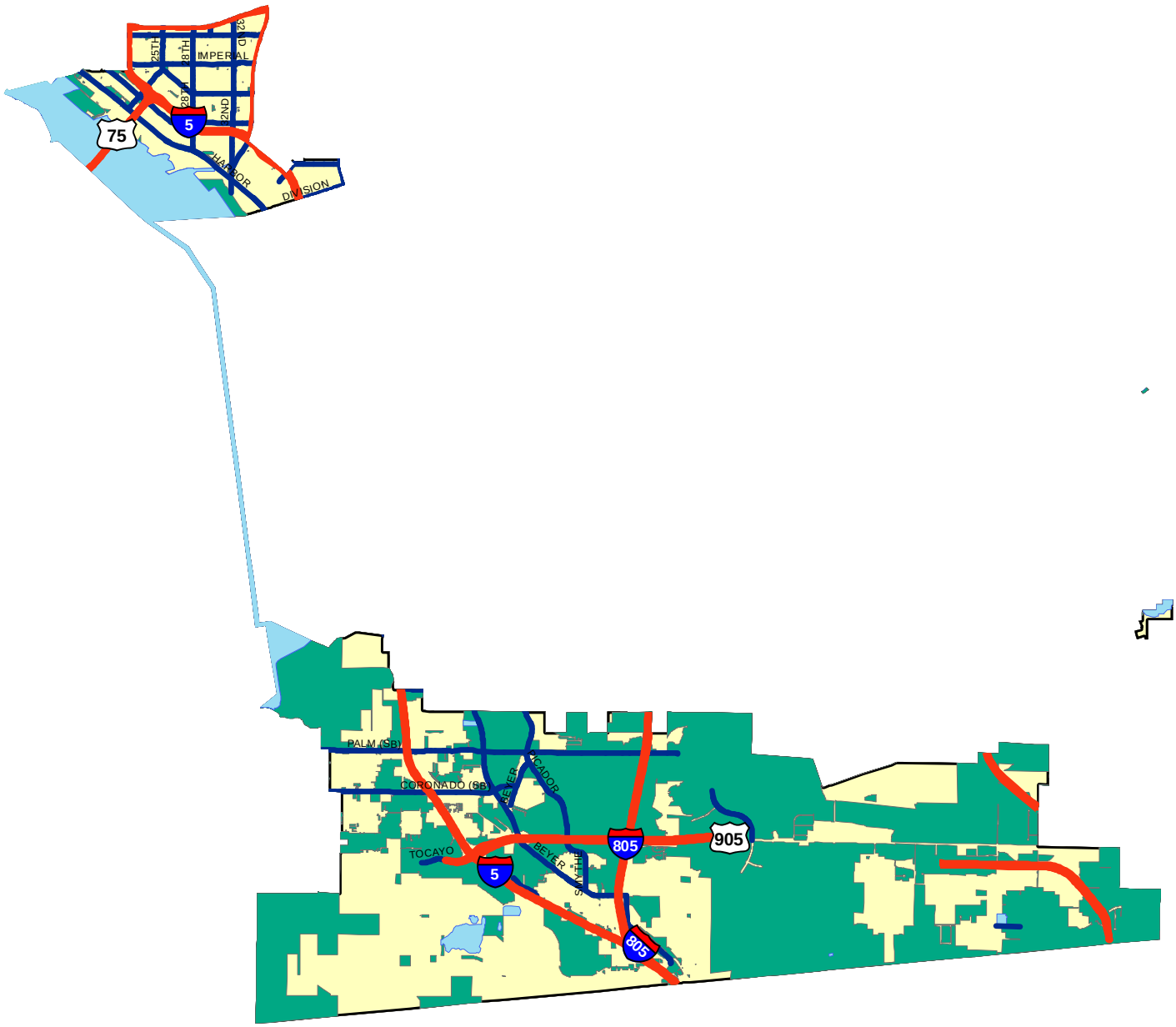
# DISTRICT 7

UNDERGROUNDING STATUS MAP



# DISTRICT 8

UNDERGROUNDING STATUS MAP



# DISTRICT 9

UNDERGROUNDING STATUS MAP