

COASTSIDE COUNTY WATER DISTRICT

766 MAIN STREET

HALF MOON BAY, CA 94019

SPECIAL MEETING OF THE BOARD OF DIRECTORS

Tuesday, September 8, 2009 - 6:00 p.m.

AGENDA

1) ROLL CALL

2) PUBLIC ANNOUNCEMENTS

3) CLOSED SESSION

Pursuant to California Government Code Section 54956.9(b)
Conference with Legal Counsel - Anticipated Litigation
Significant Exposure to Litigation: One Case

4) RECONVENE TO OPEN SESSION

Public report of closed session action.

COASTSIDE COUNTY WATER DISTRICT

766 MAIN STREET

HALF MOON BAY, CA 94019

MEETING OF THE BOARD OF DIRECTORS

Tuesday, September 8, 2009– 7:00 p.m.

AGENDA

The Coastside County Water District (CCWD) does not discriminate against persons with disabilities. Upon request, the agenda and agenda packet materials can be provided in a format to accommodate special needs. If you require a copy of the agenda or related materials in an alternative format to accommodate a disability, or if you wish to attend this public meeting and will require special assistance or other special equipment, please call the District at (650) 726-4405 in advance and we will make every reasonable attempt to provide such an accommodation.

All public records relating to an open session item on this agenda, which are not exempt from disclosure pursuant to the California Public Records Act, that are distributed to a majority of the legislative body will be available for public inspection at the CCWD District Office, located at 766 Main Street, Half Moon Bay, CA at the same time that the public records are distributed or made available to the legislative body.

This agenda and accompanying materials can be viewed on Coastside County Water District's website located at: www.coastsidewater.org.

The Board of the Coastside County Water District reserves the right to take action on any item included on this agenda.

- 1) ROLL CALL
- 2) PLEDGE OF ALLEGIANCE
- 3) PUBLIC ANNOUNCEMENTS

Any person may address the Board of Directors at the commencement of the meeting on any matter within the jurisdiction of the Board that is not on the agenda for this meeting. Any person may address the Board on an agenda item when that item is called. The Chair requests that each person addressing the Board limits their presentation to three (3) minutes and complete and submit a Speaker Slip.

4) CONSENT CALENDAR

The following matters before the Board of Directors are recommended for action as stated by the General Manager.

All matters listed hereunder constitute a Consent Calendar, are considered as routine by the Board of Directors, and will be acted upon by a single vote of the Board. There will be no separate discussion of these items unless a member of the Board so requests, in which event the matter shall be removed from the Consent Calendar and considered as a separate item.

- A. Requesting the Board to review disbursements for the month ending August 31, 2009 – Claims: \$586,269.62; Payroll: \$77,273.23 for a total of \$663,542.85 ([attachment](#))
- B. Acceptance of Financial Reports ([attachment](#))
- C. Minutes of the August 11, 2009 Board of Directors Meeting ([attachment](#))
- D. Monthly Water Transfer Report ([attachment](#))
- E. Installed Water Connection Capacity and Water Meters Report ([attachment](#))
- F. Total CCWD Production Report ([attachment](#))
- G. CCWD Monthly Sales by Category Report ([attachment](#))
- H. August 2009 Leak Report ([attachment](#))
- I. Rainfall Reports ([attachment](#))
- J. Authorization to Write Off Bad Debts for Fiscal Year 2008-2009 ([attachment](#))
- K. Purchase of Box Culvert ([attachment](#))
- L. Purchase of Crystal Springs Check Valves ([attachment](#))
- M. Award of Contract for Biological Services ([attachment](#))
- N. Acceptance of the Carnoustie Subdivision Water System ([attachment](#))
- O. Award of Contract for the Pilarcitos Culvert Replacement Project ([attachment](#))
- P. San Francisco Public Utilities Commission Hydrological Conditions Report for August 2009 ([attachment](#))
- Q. Approval of Verizon Wireless Cell Site Agreement ([attachment](#))

5) MEETINGS ATTENDED / DIRECTOR COMMENTS

6) GENERAL BUSINESS

- A. Approval of Water Service Agreement for Ailanto Properties' Pacific Ridge Subdivision ([attachment](#) and [WaterService Agreement Ailanto Final 3Sep09.pdf](#) (20.9 MB))
- B. Canada Cove Water Service Agreement ([attachment](#))
- C. Proposition 1A Suspension and Securitization Program ([attachment](#))
- D. Association of California Water Agencies (ACWA) Region 5 Election for the 2010-2011 Term ([attachment](#))
- E. Bartle Wells Financing Plan Final Report ([attachment](#))
- F. Water Reclamation Update ([attachment](#))
- G. Authorization for District to Become a Participating Agency in the Bay Area Recycled Water Coalition ([attachment](#))

7) GENERAL MANAGER'S REPORT INCLUDING MONTHLY INFORMATIONAL REPORTS ([attachment](#))

- A. Water Resources Report ([attachment](#))
- B. Water Shortage and Drought Contingency Plan ([attachment](#))
- C. Operations Report ([attachment](#))

8) DIRECTOR AGENDA ITEMS - REQUESTS FOR FUTURE BOARD MEETINGS

9) ADJOURNMENT

| <u>Check Number</u> | <u>Vendor No</u> | <u>Vendor Name</u> | <u>Check Date</u> | <u>Void Amount</u> | <u>Check Amount</u> |
|---------------------|------------------|--------------------------------|-------------------|--------------------|---------------------|
| 13608 | ALL04 | ALLIED WASTE SERVICES #925 | 08/07/2009 | 0.00 | 236.50 |
| 13609 | ALV01 | ALVES PETROLEUM, INC. | 08/07/2009 | 0.00 | 1,684.88 |
| 13610 | ASS01 | HEALTH BENEFITS AUTHORITY (HBA | 08/07/2009 | 0.00 | 21,750.02 |
| 13611 | ATT01 | AT&T MOBILTY | 08/07/2009 | 0.00 | 564.28 |
| 13612 | COA 15 | COASTSIDE NET, INC | 08/07/2009 | 0.00 | 59.95 |
| 13613 | HAR03 | HARTFORD LIFE INSURANCE CO. | 08/07/2009 | 0.00 | 2,476.00 |
| 13614 | KAI01 | KAISER FOUNDATION HEALTH | 08/07/2009 | 0.00 | 8,722.00 |
| 13615 | PAC02 | PACIFICA CREDIT UNION | 08/07/2009 | 0.00 | 750.00 |
| 13616 | PUB01 | PUB. EMP. RETIRE SYSTEM | 08/07/2009 | 0.00 | 17,519.42 |
| 13617 | STO01 | STOLOSKI & GONZALEZ, INC. | 08/07/2009 | 0.00 | 54,494.94 |
| 13618 | VAL01 | VALIC | 08/07/2009 | 0.00 | 1,270.00 |
| 13619 | WAT02 | WATER EDUCATION FOUND. | 08/07/2009 | 0.00 | 165.94 |
| 13620 | WIN02 | THE WINDOW WAREHOUSE, LLC | 08/07/2009 | 0.00 | 4,300.00 |
| 13621 | EMP01 | EMPLOYMENT DEV. DEPT. | 08/11/2009 | 0.00 | 1,009.22 |
| 13622 | COU05 | RECORDER'S OFFICE | 08/19/2009 | 0.00 | 12.00 |
| 13623 | HAR03 | HARTFORD LIFE INSURANCE CO. | 08/21/2009 | 0.00 | 2,476.00 |
| 13624 | MET06 | METLIFE SBC | 08/21/2009 | 0.00 | 1,457.55 |
| 13625 | PAC01 | PACIFIC GAS & ELECTRIC CO. | 08/21/2009 | 0.00 | 33,665.44 |
| 13626 | PAC02 | PACIFICA CREDIT UNION | 08/21/2009 | 0.00 | 750.00 |
| 13627 | PUB01 | PUB. EMP. RETIRE SYSTEM | 08/21/2009 | 0.00 | 18,496.32 |
| 13628 | SAN03 | SAN FRANCISCO WATER DEPT. | 08/21/2009 | 0.00 | 187,622.00 |
| 13629 | STA03 | CA DPH DRINKING WATER PROGRAM | 08/21/2009 | 0.00 | 205.00 |
| 13630 | TEA02 | TEAMSTERS LOCAL UNION #856 | 08/21/2009 | 0.00 | 720.00 |
| 13631 | VAL01 | VALIC | 08/21/2009 | 0.00 | 1,270.00 |
| 13632 | COU05 | RECORDER'S OFFICE | 08/21/2009 | 0.00 | 50.00 |
| 13633 | ACC02 | ACCURATE AIR ENGINEERING, INC | 08/26/2009 | 0.00 | 1,457.44 |
| 13634 | ADP01 | ADP, INC. | 08/26/2009 | 0.00 | 755.25 |
| 13635 | AND01 | ANDREINI BROS. INC. | 08/26/2009 | 0.00 | 14,097.92 |
| 13636 | ASS06 | ACWA / JPIA | 08/26/2009 | 0.00 | 55,716.00 |
| 13637 | ATT02 | AT&T | 08/26/2009 | 0.00 | 1,219.33 |
| 13638 | ATT03 | AT&T LONG DISTANCE | 08/26/2009 | 0.00 | 50.79 |
| 13639 | AZT01 | AZTEC GARDENS | 08/26/2009 | 0.00 | 190.00 |
| 13640 | BAS01 | BASIC CHEMICAL SOLUTION, LLC | 08/26/2009 | 0.00 | 4,733.03 |
| 13641 | BAY05 | BAY AREA WATER SUPPLY & | 08/26/2009 | 0.00 | 506.01 |
| 13642 | BAY10 | BAY ALARM COMPANY | 08/26/2009 | 0.00 | 876.60 |
| 13643 | BIO01 | BIOVIR LABORATORIES, INC. | 08/26/2009 | 0.00 | 1,740.00 |
| 13644 | BLU01 | BPS REPROGRAPIC SERVICES | 08/26/2009 | 0.00 | 237.62 |
| 13645 | BOR01 | BORGES & MAHONEY, INC. | 08/26/2009 | 0.00 | 1,444.73 |
| 13646 | BRE01 | CATHLEEN BRENNAN | 08/26/2009 | 0.00 | 208.30 |
| 13647 | CAL04 | CALTAM, INC | 08/26/2009 | 0.00 | 423.40 |
| 13648 | CAR02 | CAROLYN STANFIELD | 08/26/2009 | 0.00 | 485.00 |
| 13649 | CAR04 | CAROLLO ENGINEERS | 08/26/2009 | 0.00 | 13,588.50 |
| 13650 | CLI01 | CLIFFORD BECHTEL | 08/26/2009 | 0.00 | 974.11 |
| 13651 | COA01 | COASTSIDE LAND SURVEYING | 08/26/2009 | 0.00 | 1,478.75 |
| 13652 | COA19 | COASTSIDE COUNTY WATER DIST. | 08/26/2009 | 0.00 | 250.98 |
| 13653 | COM01 | COMMUNICATION LEASING SERVICES | 08/26/2009 | 0.00 | 1,462.40 |
| 13654 | DAT01 | DATAPROSE, INC | 08/26/2009 | 0.00 | 2,578.35 |
| 13655 | EKI01 | EKI INC. | 08/26/2009 | 0.00 | 1,187.48 |
| 13656 | ENR01 | ENRIQUEZ MD, JOSEFINA | 08/26/2009 | 0.00 | 250.00 |
| 13657 | FIR06 | FIRST NATIONAL BANK | 08/26/2009 | 0.00 | 1,720.59 |
| 13658 | FRI01 | FRISCH ENGINEERING, INC | 08/26/2009 | 0.00 | 3,729.14 |
| 13659 | GEM01 | GEMPLER'S, INC. | 08/26/2009 | 0.00 | 2,468.31 |
| 13660 | GOL04 | GOLDEN STATE FLOW MEASUREMENT | 08/26/2009 | 0.00 | 5,037.05 |
| 13661 | GRA03 | GRAINGER, INC. | 08/26/2009 | 0.00 | 2,258.26 |
| 13662 | HAL01 | HMB BLDG. & GARDEN INC. | 08/26/2009 | 0.00 | 69.65 |
| 13663 | HAL04 | HALF MOON BAY REVIEW | 08/26/2009 | 0.00 | 250.00 |
| 13664 | HAL24 | H.M.B.AUTO PARTS | 08/26/2009 | 0.00 | 84.27 |
| 13665 | HAN01 | HANSONBRIDGETT. LLP | 08/26/2009 | 0.00 | 8,943.00 |
| 13666 | HAW01 | HAWKINS DELAFIELD & WOOD LLP | 08/26/2009 | 0.00 | 1,876.70 |
| 13667 | IED01 | IEDA, INC. | 08/26/2009 | 0.00 | 1,000.00 |
| 13668 | IRO01 | IRON MOUNTAIN | 08/26/2009 | 0.00 | 271.00 |
| 13669 | IRV01 | IRVINE CONSULTING SERVICES, IN | 08/26/2009 | 0.00 | 1,970.00 |

| <u>Check Number</u> | <u>Vendor No</u> | <u>Vendor Name</u> | <u>Check Date</u> | <u>Void Amount</u> | <u>Check Amount</u> |
|---------------------|------------------|--------------------------------|-------------------|--------------------|---------------------|
| 13670 | JAM01 | JAMES FORD, INC. | 08/26/2009 | 0.00 | 289.95 |
| 13671 | KAN02 | KANO LABORATORIES, INC. | 08/26/2009 | 0.00 | 254.37 |
| 13672 | KEN03 | KENNEDY/JENKS CONSULTANTS | 08/26/2009 | 0.00 | 43,330.46 |
| 13673 | MCT01 | MCTV6 | 08/26/2009 | 0.00 | 800.00 |
| 13674 | MIS01 | MISSION UNIFORM SERVICES INC. | 08/26/2009 | 0.00 | 212.04 |
| 13675 | MON07 | MONTEREY COUNTY LAB | 08/26/2009 | 0.00 | 4,240.00 |
| 13676 | NAT02 | NATIONAL METER & AUTOMATION | 08/26/2009 | 0.00 | 5,384.18 |
| 13677 | OCC01 | OCCU-MED, LTD | 08/26/2009 | 0.00 | 25.00 |
| 13678 | OCE04 | OCEAN SHORE CO. | 08/26/2009 | 0.00 | 573.53 |
| 13679 | OFF01 | OFFICE DEPOT | 08/26/2009 | 0.00 | 375.06 |
| 13680 | OGR01 | O'GRADY PAVING | 08/26/2009 | 0.00 | 380.07 |
| 13681 | ONT01 | ONTRAC | 08/26/2009 | 0.00 | 179.00 |
| 13682 | PAP02 | PAPE MACHINERY EXCHANGE | 08/26/2009 | 0.00 | 71.25 |
| 13683 | PIT04 | PITNEY BOWES | 08/26/2009 | 0.00 | 231.00 |
| 13684 | RIC01 | RICOH AMERICAS CORPORATION | 08/26/2009 | 0.00 | 813.05 |
| 13685 | ROB01 | ROBERTS & BRUNE CO. | 08/26/2009 | 0.00 | 6,562.19 |
| 13686 | ROG01 | ROGUE WEB WORKS, LLC | 08/26/2009 | 0.00 | 270.00 |
| 13687 | ROM02 | ROME PACKING COMPANY | 08/26/2009 | 0.00 | 579.03 |
| 13688 | SAN05 | SAN MATEO CTY PUBLIC HEALTH LA | 08/26/2009 | 0.00 | 758.70 |
| 13689 | SER03 | SERVICE PRESS | 08/26/2009 | 0.00 | 494.39 |
| 13690 | SEW01 | SEWER AUTH. MID- COASTSIDE | 08/26/2009 | 0.00 | 570.00 |
| 13691 | SIE02 | SIERRA CHEMICAL CO. | 08/26/2009 | 0.00 | 5,707.53 |
| 13692 | SPR01 | SPRING MOUNTAIN GALLERY | 08/26/2009 | 0.00 | 94.76 |
| 13693 | STR02 | STRAWFLOWER ELECTRONICS | 08/26/2009 | 0.00 | 121.91 |
| 13694 | T&T01 | T & T VALVE AND INSTRUMENT, IN | 08/26/2009 | 0.00 | 5,219.04 |
| 13695 | TET01 | JAMES TETER | 08/26/2009 | 0.00 | 8,760.79 |
| 13696 | TUR04 | SUSAN TURGEON | 08/26/2009 | 0.00 | 174.72 |
| 13697 | UB*00649 | DIETRICH WOLFGRAMM | 08/26/2009 | 0.00 | 129.15 |
| 13698 | UB*00650 | BRAD SUNSHINE | 08/26/2009 | 0.00 | 40.94 |
| 13699 | UB*00651 | JAMES FITZPATRICK | 08/26/2009 | 0.00 | 77.40 |
| 13700 | UB*00652 | CRYSTAL PASTORIAN | 08/26/2009 | 0.00 | 211.85 |
| 13701 | UB*00653 | TANVEER ALIBHAI | 08/26/2009 | 0.00 | 75.00 |
| 13702 | UB*00654 | BODY AND SOUL DAY SPA | 08/26/2009 | 0.00 | 13.77 |
| 13703 | UB*00655 | RANDY RALSTON | 08/26/2009 | 0.00 | 22.99 |
| 13704 | UB*00656 | RANDY RALSTON | 08/26/2009 | 0.00 | 6.00 |
| 13705 | UB*00657 | JOHN ALEXANDER | 08/26/2009 | 0.00 | 75.00 |
| 13706 | UB*00658 | ALLISON PUCCIONI | 08/26/2009 | 0.00 | 41.56 |
| 13707 | UB*00659 | KENNETH ANDERSON | 08/26/2009 | 0.00 | 131.91 |
| 13708 | UB*00660 | DEBORAH McCLAIN | 08/26/2009 | 0.00 | 40.24 |
| 13709 | UB*00661 | TODD HUMPHREYS | 08/26/2009 | 0.00 | 130.73 |
| 13710 | UB*00662 | MICHELLE SOUSA | 08/26/2009 | 0.00 | 54.84 |
| 13711 | UB*00663 | CAMERON LAMBERT | 08/26/2009 | 0.00 | 53.63 |
| 13712 | UB*00664 | ROBERT DAYE | 08/26/2009 | 0.00 | 26.58 |
| 13713 | UB*00665 | MICHAEL KNYSH | 08/26/2009 | 0.00 | 50.81 |
| 13714 | UB*00666 | LESLIE GARDENS | 08/26/2009 | 0.00 | 14.58 |
| 13715 | UB*00667 | NICOLE COURTNEY | 08/26/2009 | 0.00 | 67.78 |
| 13716 | VAL02 | LAURENCE VALENTE | 08/26/2009 | 0.00 | 192.00 |
| 13717 | VER01 | VERMEER PACIFIC | 08/26/2009 | 0.00 | 514.99 |
| 13718 | WAT02 | WATER EDUCATION FOUND. | 08/26/2009 | 0.00 | 275.12 |
| 13719 | WEL10 | DAVID D. WELCH | 08/26/2009 | 0.00 | 132.00 |
| 13720 | WES11 | WEST COAST AGGREGATES, INC. | 08/26/2009 | 0.00 | 101.31 |

Report Total: 0.00 586,269.62

COASTSIDE COUNTY WATER DISTRICT - PERIOD BUDGET ANALYSIS
31-Aug-09

| ACCOUNT | DESCRIPTION | CURRENT ACTUAL | CURRENT BUDGET | B/(W) VARIANCE | B/(W) % VAR | YTD ACTUAL | YTD BUDGET | B/(W) VARIANCE | B/(W) % VAR |
|-----------------------|--------------------------------|---------------------------|---------------------------|---------------------------|------------------------|-----------------------|-----------------------|---------------------------|------------------------|
| REVENUE | | | | | | | | | |
| 1-0-4120-00 | Water Revenue -All Areas | 665,608 | 512,533 | 153,075 | 29.9% | 1,262,123 | 1,299,231 | (37,108) | (2.9%) |
| 1-0-4170-00 | Water Taken From Hydrants | 2,025 | 2,083 | (59) | (2.8%) | 2,275 | 4,167 | (1,892) | (45.4%) |
| 1-0-4180-00 | Late Notice -10% Penalty | 4,447 | 4,167 | 281 | 6.7% | 8,999 | 8,333 | 666 | 8.0% |
| 1-0-4230-00 | Service Connections | 985 | 667 | 319 | 47.8% | 1,275 | 1,333 | (59) | (4.4%) |
| 1-0-4235-00 | CSP Connection T & S Fees | 0 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0.0% |
| 1-0-4920-00 | Interest Earned | 0 | 0 | 0 | 0.0% | 9,854 | 16,387 | (6,533) | (39.9%) |
| 1-0-4925-00 | Interest Revenue T&S Fees | 0 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0.0% |
| 1-0-4927-00 | Inerest Revenue Bond Funds | 0 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0.0% |
| 1-0-4930-00 | Tax Apportionments/Cnty Checks | 461 | 0 | 461 | 0.0% | 25,168 | 0 | 25,168 | 0.0% |
| 1-0-4950-00 | Miscellaneous Income | 8,291 | 3,083 | 5,208 | 168.9% | 8,887 | 6,167 | 2,721 | 44.1% |
| 1-0-4955-00 | Cell Site Lease Income | 7,105 | 6,850 | 255 | 3.7% | 14,177 | 13,700 | 477 | 3.5% |
| 1-0-4960-00 | CSP Assm. Dist. Processing Fee | 0 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0.0% |
| 1-0-4965-00 | ERAF REFUND -County Taxes | 0 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0.0% |
| 1-0-4970-00 | Wavecrest Reserve Conn. Fees | 0 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0.0% |
| REVENUE TOTALS | | 688,922 | 529,383 | 159,538.87 | 30.1% | 1,332,758 | 1,349,318 | (16,560) | (1.2%) |
| EXPENSES | | | | | | | | | |
| 1-1-5130-00 | Water Purchased | 187,622 | 180,032 | (7,590) | (4.2%) | 262,622 | 345,214 | 82,592 | 23.9% |
| 1-1-5230-00 | Pump Exp, Nunes T P | 1,769 | 1,583 | (186) | (11.7%) | 1,769 | 3,167 | 1,398 | 44.1% |
| 1-1-5231-00 | Pump Exp, CSP Pump Station | 25,883 | 40,880 | 14,997 | 36.7% | 25,883 | 78,245 | 52,362 | 66.9% |
| 1-1-5232-00 | Pump Exp, Trans. & Dist. | 1,434 | 2,304 | 870 | 37.8% | 1,434 | 4,530 | 3,096 | 68.3% |
| 1-1-5233-00 | Pump Exp, Pilarcitos Can. | 254 | 120 | (134) | (111.4%) | 254 | 240 | (14) | (5.7%) |
| 1-1-5234-00 | Pump Exp. Denniston Proj. | 3,641 | 5,003 | 1,362 | 27.2% | 3,641 | 11,793 | 8,152 | 69.1% |
| 1-1-5235-00 | Denniston T.P. Operations | 38 | 2,845 | 2,807 | 98.7% | 2,160 | 6,706 | 4,546 | 67.8% |
| 1-1-5236-00 | Denniston T.P. Maintenance | 228 | 2,111 | 1,883 | 89.2% | 887 | 4,222 | 3,335 | 79.0% |
| 1-1-5240-00 | Nunes T P Operations | 10,599 | 7,028 | (3,571) | (50.8%) | 16,198 | 13,456 | (2,742) | (20.4%) |
| 1-1-5241-00 | Nunes T P Maintenance | 8,234 | 3,167 | (5,067) | (160.0%) | 34,029 | 6,334 | (27,695) | (437.2%) |
| 1-1-5242-00 | CSP Pump Station Operations | 781 | 708 | (73) | (10.4%) | 781 | 1,416 | 635 | 44.8% |
| 1-1-5243-00 | CSP Pump Station Maintenance | 2,024 | 2,313 | 289 | 12.5% | 3,400 | 4,626 | 1,226 | 26.5% |
| 1-1-5250-00 | Laboratory Services | 6,953 | 6,250 | (703) | 0.0% | 7,180 | 12,500 | 5,320 | 0.0% |
| 1-1-5318-00 | Studies/Surveys/Consulting | 1,552 | 1,879 | 327 | 17.4% | 3,015 | 3,757 | 743 | 19.8% |
| 1-1-5321-00 | Water Conservation | 680 | 5,054 | 4,374 | 86.5% | 1,482 | 10,108 | 8,626 | 85.3% |
| 1-1-5322-00 | Community Outreach | 925 | 2,392 | 1,467 | 61.3% | 1,715 | 4,783 | 3,068 | 64.1% |
| 1-1-5411-00 | Salaries & Wages -Field | 72,369 | 69,821 | (2,548) | (3.6%) | 136,378 | 139,642 | 3,264 | 2.3% |
| 1-1-5412-00 | Maintenance -General | 23,083 | 19,708 | (3,375) | (17.1%) | 30,035 | 46,416 | 16,381 | 35.3% |

| ACCOUNT | DESCRIPTION | CURRENT ACTUAL | CURRENT BUDGET | B/(W) VARIANCE | B/(W) % VAR | YTD ACTUAL | YTD BUDGET | B/(W) VARIANCE | B/(W) % VAR |
|-----------------------|--------------------------------|-------------------|-------------------|-------------------|----------------|----------------|------------------|-------------------|----------------|
| 1-1-5414-00 | Motor Vehicle Expense | 2,627 | 3,958 | 1,332 | 33.6% | 2,675 | 7,917 | 5,242 | 66.2% |
| 1-1-5415-00 | Maintenance -Well Fields | 0 | 1,250 | 1,250 | 100.0% | 0 | 2,500 | 2,500 | 100.0% |
| 1-1-5610-00 | Salaries/Wages-Administration | 47,646 | 49,739 | 2,093 | 4.2% | 92,431 | 99,478 | 7,047 | 7.1% |
| 1-1-5620-00 | Office Supplies & Expense | 8,643 | 10,929 | 2,286 | 20.9% | 14,089 | 21,858 | 7,769 | 35.5% |
| 1-1-5621-00 | Computer Services | 2,552 | 3,988 | 1,435 | 36.0% | 6,510 | 7,975 | 1,465 | 18.4% |
| 1-1-5625-00 | Meetings / Training / Seminars | 1,366 | 1,667 | 300 | 18.0% | 3,236 | 3,333 | 97 | 2.9% |
| 1-1-5630-00 | Insurance | 91,471 | 31,319 | (60,152) | (192.1%) | 122,374 | 130,139 | 7,765 | 6.0% |
| 1-1-5640-00 | Employees Retirement Plan | 34,910 | 34,442 | (468) | (1.4%) | 50,585 | 68,885 | 18,299 | 26.6% |
| 1-1-5645-00 | SIP 401K Plan | 0 | 1,667 | 1,667 | 100.0% | 0 | 3,333 | 3,333 | 100.0% |
| 1-1-5681-00 | Legal | 4,349 | 4,333 | (16) | (0.4%) | 4,349 | 8,667 | 4,318 | 49.8% |
| 1-1-5682-00 | Engineering | 1,642 | 1,250 | (392) | (31.4%) | 3,021 | 2,500 | (521) | (20.8%) |
| 1-1-5683-00 | Financial Services | 0 | 2,583 | 2,583 | 100.0% | 0 | 5,167 | 5,167 | 100.0% |
| 1-1-5684-00 | Payroll Tax Expense | 9,552 | 8,627 | (926) | (10.7%) | 17,927 | 17,253 | (674) | (3.9%) |
| 1-1-5687-00 | Membership, Dues, Subscript. | 150 | 1,735 | 1,585 | 91.4% | 380 | 9,219 | 8,839 | 95.9% |
| 1-1-5688-00 | Election Expenses | 0 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0.0% |
| 1-1-5689-00 | Labor Relations | 1,000 | 1,000 | 0 | 0.0% | 2,000 | 2,000 | 0 | 0.0% |
| 1-1-5700-00 | San Mateo County Fees | 0 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0.0% |
| 1-1-5705-00 | State Fees | 0 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0.0% |
| 1-1-5710-00 | Deprec, Trucks, Tools, Equipt. | 0 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0.0% |
| 1-1-5711-00 | Debt Svc/Existing Bonds 1998A | 0 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0.0% |
| 1-1-5712-00 | Debt Svc/Existing Bonds 2006B | 1,877 | 0 | (1,877) | 0.0% | 1,877 | 0 | (1,877) | 0.0% |
| 1-1-5713-00 | Contribution to CIP & Reserves | 43,121 | 43,121 | 0 | 0.0% | 86,243 | 86,243 | 0 | 0.0% |
| 1-1-5745-00 | CSP Connect. Reserve Contribu. | 0 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0.0% |
| 1-1-5746-00 | Wavcrest CSP Connt. Reserve | 0 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0.0% |
| EXPENSE TOTALS | | 598,975 | 554,806 | (44,169) | (8.0%) | 940,559 | 1,173,622 | 233,063 | 19.9% |
| NET INCOME | | 89,947 | (25,423) | 115,370 | | 392,199 | 175,696 | 216,503 | |

COASTSIDE COUNTY WATER DISTRICT

INVESTMENT REPORT

August 31, 2009

| | | <i>Restricted</i> | <i>Restricted</i> | <i>Restricted for CSP CIP Projects</i> | | |
|---|--|-------------------------------|---------------------------------|--|-------------------------|-----------------------|
| | CASH FLOW & OPERATING RESERVE | EMERGENCY RESERVES | CAPITAL EXPENDITURES | DISTRICT CSP CONTRIBUTION | CSP T&S FEES | TOTAL |
| DISTRICT BALANCES | | | | | | |
| <u>CASH IN FNB</u> | | | | | | |
| OPERATING ACCOUNT | | | \$404,584.78 | | | \$404,584.78 |
| CSP T&S ACCOUNT | | | | | \$22,828.07 | \$22,828.07 |
| TOTAL FIRST NATIONAL BANK | \$0.00 | \$0.00 | \$404,584.78 | \$0.00 | \$22,828.07 | \$427,412.85 |
| CASH WITH L.A.I.F | \$297,900.00 | \$1,699,005.00 | \$1,629,676.27 | \$0.00 | \$20,789.94 | \$3,647,371.21 |
| UNION BANK - Project Fund Balance | | | \$2,324,846.69 | | | \$2,324,846.69 |
| CASH ON HAND | \$2,130.00 | | | | | \$2,130.00 |
| TOTAL DISTRICT CASH BALANCES | \$300,030.00 | \$1,699,005.00 | \$4,359,107.74 | \$0.00 | \$43,618.01 | \$6,401,760.75 |
| | | | | | | |
| | | | | | | |
| ASSESSMENT DISTRICT BALANCES | | | | | | |
| <u>CASH IN FIRST NATIONAL BANK (FNB)</u> | | | | | | |
| REDEMPTION ACCOUNT | | \$ 86,876.19 | | | | |
| RESERVE ACCOUNT (Closed Account 8-4-04) | | \$ - | | | | |
| TOTAL ASSESSMENT DISTRICT CASH | | \$ 86,876.19 | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| <i>This report is in conformity with CCWD's Investment Policy and there are sufficient funds to meet CCWD's expenditure requirements for the next three months.</i> | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**COASTSIDE COUNTY WATER DISTRICT
APPROVED CAPITAL IMPROVEMENT PROJECTS
FISCAL YEAR 2009-2010**

Sept. 2009

| Acct No. | Approved CIP Budget FY 09/10 | Actual To Date FY 09/10 | % Completed |
|----------|------------------------------------|-------------------------------|----------------|
|----------|------------------------------------|-------------------------------|----------------|

PIPELINE PROJECTS

| | | | | |
|-------------------------------------|---------|-----------|--|------|
| Main Street/Hwy 92 Widening Project | 1120-93 | \$ 20,000 | | 0.0% |
|-------------------------------------|---------|-----------|--|------|

WATER TREATMENT PLANTS

| | | | | |
|-------------------------------------|---------|------------|-----------|-------|
| Denniston Intake Maintenance | 1120-03 | \$ 80,000 | \$ 13,589 | 17.0% |
| Denniston WTP - Intake Construction | | \$ 100,000 | | |
| Nunes - Floc Drive Repair | | \$ 50,000 | | |
| Nunes Filter Media Replacement | 1121-25 | \$ 50,000 | \$ 170 | 0.3% |

FACILITIES & MAINTENANCE

| | | | | |
|--------------------------------|---------|------------|----------|-------|
| District Space Planning | | \$ 25,000 | | |
| AMR Program | 1121-41 | \$ 400,000 | | 0.0% |
| PRV Valves Replacement Project | 1121-43 | \$ 20,000 | \$ 3,850 | 19.3% |
| Meter Change Program | 1117-06 | \$ 18,000 | \$ 3,666 | 20.4% |
| Fire Hydrant Replacement | 1121-49 | \$ 40,000 | | 0.0% |
| Pilarcitos Culvert Repair | 1121-48 | \$ 200,000 | \$ 992 | 0.5% |

EQUIPMENT PURCHASE & REPLACEMENT

| | | | | |
|-------------------------------------|---------|------------|----------|------|
| Vehicle Replacement | 1118-04 | \$ 28,000 | | 0.0% |
| Computer System | 1118-02 | \$ 5,000 | | 0.0% |
| Office Equipment/Furniture | 1118-02 | \$ 3,000 | | 0.0% |
| SCADA/Telemetry/electrical controls | 1120-82 | \$ 250,000 | \$ 6,302 | 2.5% |

PUMP STATIONS / TANKS / WELLS

| | | | | |
|--|--|------------|--|------|
| Alves Tank Recoating (Interior/Exterior) | | \$ 300,000 | | 0.0% |
| Cahill Tank Ladder Replacement | | \$ 15,000 | | 0.0% |
| Crystal Springs Check Valve Repair/Replacement | | \$ 100,000 | | 0.0% |
| Crystal Springs Re-roof and Paint | | \$ 50,000 | | 0.0% |
| Crystal Springs Soft Starts 1 & 3 | | \$ 25,000 | | 0.0% |
| EG Tank #1 Pump Station Pump Replacement | | \$ 23,000 | | 0.0% |
| EG Tank #1 Security Fence | | \$ 20,000 | | 0.0% |

COASTSIDE COUNTY WATER DISTRICT
 APPROVED CAPITAL IMPROVEMENT PROJECTS
 FISCAL YEAR 2009-2010

Sept. 2009

| | Acct No. | Approved CIP Budget FY 09/10 | Actual To Date FY 09/10 | % Completed |
|--|----------|------------------------------------|-------------------------------|----------------|
| Hazen's Tank Fence Upgrade | | \$ 10,000 | | 0.0% |
| Miramar Tank Interior Recoating/Mixing | | \$ 230,000 | \$ 692 | 0.3% |
| New Pilarcitos Well | | \$ 25,000 | | 0.0% |
| Pilarcitos Canyon Blending Station | | \$ 100,000 | \$ 13,641 | 13.6% |
| Well Rehabilitation | | \$ 40,000 | \$ 14,731 | 36.8% |

NUNES/ DENNISTON WTP PRIORITY (SHORT-TERM) IMPROVEMENTS

| | | | | |
|--|---------|------------|-----------|------|
| Nunes / Denniston Short Term WTP Modifications | 1121-21 | \$ 600,000 | \$ 13,637 | 2.3% |
|--|---------|------------|-----------|------|

DENNISTON WTP (LONG-TERM) IMPROVEMENTS (MEMBRANE FILTRATION)

| | | | | |
|-------------------------------------|---------|------------|-----------|------|
| Denniston Pre/Post Treatment Design | 1127-04 | \$ 350,000 | \$ 29,819 | 8.5% |
|-------------------------------------|---------|------------|-----------|------|

NUNES WTP (LONG-TERM) IMPROVEMENTS (UV DISINFECTION)

| | | | | |
|---|--|-----------|--|------|
| Modify Filters for Rate of Flow Control | | \$ 10,000 | | 0.0% |
|---|--|-----------|--|------|

WATER SUPPLY DEVELOPMENT

| | | | | |
|--------------------------------------|---------|------------|----------|------|
| Reclamation Project Planning | 1127-00 | \$ 100,000 | \$ 5,973 | 6.0% |
| Water Supply Alternatives Evaluation | | \$ 50,000 | | 0.0% |

| | | | | |
|---------------|--|---------------------|--|-------------|
| TOTALS | | \$ 3,337,000 | | 0.0% |
|---------------|--|---------------------|--|-------------|

FY 08/09 CIP Projects - paid in FY 09/10

| | | |
|---|---------|-----------|
| Office Equipment - Furniture | 1118-02 | \$ 7,566 |
| Denniston Storage Tank Modification Project | 1121-40 | \$ 54,569 |
| Nunes (was Denniston) Cl2/ph Analyzer | 1118-10 | \$ 7,421 |
| Skylights | 1118-01 | \$ 4,300 |

NON-BUDGETED ITEMS (CAPITAL EXPEDITURES) FOR CURRENT FISCAL YEAR 09/10

**COASTSIDE COUNTY WATER DISTRICT
 APPROVED CAPITAL IMPROVEMENT PROJECTS
 FISCAL YEAR 2009-2010**

Sept. 2009

| Acct No. | Approved CIP Budget FY 09/10 | Actual To Date FY 09/10 | % Completed |
|----------|------------------------------------|-------------------------------|----------------|
|----------|------------------------------------|-------------------------------|----------------|

Nunes - Generator Radiator

1121-54 \$ 17,517 \$ 182

**Legal Cost Tracking Report
12 Months At-A-Glance**

**Acct. No.5681
Patrick Miyaki - HansonBridgett, LLP
Legal**

| Month | Admin (General Legal Fees) | Recycle Water Analysis | Transfer Program | CIP | Personnel | Lawsuits | Infrastructure Project Review (Reimbursable) | TOTAL |
|--------------|---|---------------------------------------|-----------------------------|------------|------------------|-----------------|--|--------------|
|--------------|---|---------------------------------------|-----------------------------|------------|------------------|-----------------|--|--------------|

| | | | | | | | | |
|---------------|--------|-------|-------|-------|--|--|-------|--------|
| Dec-08 | 4,167 | 182 | | | | | | 4,349 |
| Jan-09 | 1,354 | | 1,508 | 2,193 | | | | 5,055 |
| Feb-09 | 2,651 | | | 494 | | | 3,978 | 7,123 |
| Mar-09 | 4,212 | 494 | | 113 | | | 3,134 | 7,953 |
| Apr-09 | 3,588 | 7,670 | 754 | 1,222 | | | 104 | 13,338 |
| May-09 | 3,210 | 1,300 | | 3,000 | | | 442 | 7,952 |
| Jun-09 | 7,454 | 2,002 | 182 | 52 | | | | 9,690 |
| Jul-09 | 15,556 | 3,250 | 1,222 | 364 | | | 234 | 20,626 |
| Aug-09 | 4,661 | 2,574 | 312 | 312 | | | 1,084 | 8,943 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | | | | | | | | |
|--------------|---------------|---------------|--------------|--------------|----------|----------|--------------|---------------|
| TOTAL | 46,853 | 17,472 | 3,978 | 7,749 | 0 | 0 | 8,976 | 85,028 |
|--------------|---------------|---------------|--------------|--------------|----------|----------|--------------|---------------|

**Engineer Cost Tracking Report
12 Months At-A-Glance**

**Acct. No. 5682
JAMES TETER
Engineer**

| Month | Admin & Retainer | Phase 3 EG Pipeline | CIP | Short Term WTP Imprv. | Studies & Projects | TOTAL | Reimbursable from Projects |
|---------------|---------------------------------|--------------------------------|------------|--------------------------------------|-----------------------------------|---------------|---|
| Sep-08 | 641 | | 531 | 12,930 | 2,887 | 16,988 | 2,887 |
| Oct-08 | 480 | | 11,603 | 3,220 | 1,771 | 17,074 | 1,771 |
| Nov-08 | 480 | | 11,849 | 81 | 1,820 | 14,229 | 1,820 |
| Dec-08 | 281 | | 14,110 | 81 | 3,740 | 18,211 | 1,820 |
| Jan-09 | 2,825 | | 566 | 2,372 | 5,022 | 10,784 | 5,022 |
| Feb-09 | 2,529 | | | 14,082 | 1,501 | 18,112 | 1,501 |
| Mar-09 | 1,071 | | 825 | 9,703 | 1,369 | 12,967 | 1,369 |
| Apr-09 | 561 | | 161 | 7,744 | 3,357 | 11,822 | 3,357 |
| May-09 | 1,526 | | 2,774 | 1,940 | 5,915 | 12,154 | 5,915 |
| Jun-09 | 480 | 322 | 2,496 | | 7,420 | 10,718 | 7,420 |
| Jul-09 | 1,379 | | | 6,010 | 2,490 | 9,879 | 2,490 |
| Aug-09 | 1,642 | | | 5,459 | 1,660 | 8,761 | 1,660 |

| | | | | | | | |
|--------------|---------------|------------|---------------|---------------|---------------|----------------|---------------|
| TOTAL | 13,894 | 322 | 44,913 | 63,620 | 38,950 | 161,700 | 37,031 |
|--------------|---------------|------------|---------------|---------------|---------------|----------------|---------------|

COASTSIDE COUNTY WATER DISTRICT

766 MAIN STREET

HALF MOON BAY, CA 94019

MINUTES OF THE BOARD OF DIRECTORS MEETING

Tuesday, August 11, 2009

- 1) **ROLL CALL:** President Mickelsen called the meeting to order at 7:00 p.m. Present at roll call were Directors Ken Coverdell, Jim Larimer, and Everett Ascher. Director Feldman was absent.

Also present were: David Dickson, General Manager; Patrick Miyaki, Legal Counsel; Joe Guistino, Superintendent of Operations; Cathleen Brennan, Public Outreach/Program Development /Water Resources Analyst; JoAnne Whelen, Administrative Assistant/Recording Secretary; and Gina Brazil, Office Manager.

- 2) **PLEDGE OF ALLEGIANCE**

- 3) **PUBLIC ANNOUNCEMENTS:** There were no public announcements.

- 4) **CONSENT CALENDAR**

- A. Requesting the Board to review disbursements for the month Ending July 31, 2009 - Claims: \$332,157.61; Payroll: \$67,809.87 for a total of \$399,967.48
- B. Acceptance of Financial Reports
- C. Minutes of the July 14, 2009 Board of Directors Meeting
- D. Monthly Water Transfer Report
- E. Installed Water Connection Capacity and Water Meters Report
- F. Total CCWD Production Report
- G. CCWD Monthly Sales by Category Report
- H. July 2009 Leak Report
- I. Rainfall Reports
- J. S.F.P.U.C. Hydrological Conditions Report for July 2009

K. Pilarcitos Well # 1 Rehabilitation

Director Ascher reported that he had reviewed the monthly claims and found all to be in order.

ON MOTION by Director Ascher and seconded by Director Coverdell, the Board voted as follows, by roll call vote, to accept the Consent Calendar in its entirety:

| | |
|-------------------------------|---------------|
| Director Coverdell | Aye |
| Vice-President Feldman | Absent |
| Director Larimer | Aye |
| Director Ascher | Aye |
| President Mickelsen | Aye |

5) MEETINGS ATTENDED / DIRECTOR COMMENTS

Director Coverdell provided details of his recent tour of the Hetch Hetchy Water System. He also advised that he had attended a meeting of the District's Finance Committee.

Director Ascher reported on his attendance at meetings of both the Association of California Water Agencies Joint Powers Insurance Authority (ACWA/JPIA) and the San Mateo Special District's Association.

Director Larimer added that he had also attended the San Mateo Special District's Association meeting on August 4, 2009, as well as a meeting of the District's Water Reclamation Committee.

6) GENERAL BUSINESS

A. Approval of the New Water Supply Agreement with San Francisco and of Coastside County Water District's Individual Agency Water Sales Contract

Mr. Dickson provided a detailed background of the new water supply agreement with San Francisco, as well as the District's individual sales contract with San Francisco. He also reviewed the recommendations with regard to adopting the three Resolutions pertaining to the respective agreements and he and Mr. Miyaki addressed questions and comments from the Board members.

ON MOTION by Director Coverdell and seconded by Ascher, the Board voted as follows, by roll call vote, to adopt Resolution 2009-08 Approving Water Supply Agreement with the City and County of San Francisco:

| | |
|-------------------------------|---------------|
| Director Coverdell | Aye |
| Vice-President Feldman | Absent |
| Director Larimer | Aye |
| Director Ascher | Aye |
| President Mickelsen | Aye |

ON MOTION by Director Coverdell and seconded by Director Ascher, the Board voted as follows, by roll call vote, to adopt Resolution 2009-09 Approving Individual Water Sales Contract with the City and County of San Francisco:

| | |
|-------------------------------|---------------|
| Director Coverdell | Aye |
| Vice-President Feldman | Absent |
| Director Larimer | Aye |
| Director Ascher | Aye |
| President Mickelsen | Aye |

ON MOTION by Director Larimer and seconded by Director Ascher, the Board voted as follows, by roll call vote, to adopt Resolution 2009-10 Adopting Findings for Purposes of the California Environmental Quality Act in Connection with Approval of a Water Supply Agreement with the City and County of San Francisco:

| | |
|-------------------------------|---------------|
| Director Coverdell | Aye |
| Vice-President Feldman | Absent |
| Director Larimer | Aye |
| Director Ascher | Aye |
| President Mickelsen | Aye |

Director Coverdell complimented Mr. Dickson and Mr. Miyaki and expressed his appreciation for their efforts and success in negotiating the agreement on the District's behalf.

B. California Special Districts Association (CSDA) - 2009 Board Elections - Region 3, Seat A

Mr. Dickson explained that, as a member of CSDA, the CCWD Board has the opportunity to participate in the Board elections process by casting a vote for one of the three candidates seeking to represent Region 3. He reviewed the candidates, including Dr. James Kohnen, the incumbent, Vincent Ferrante, and Kathryn Slater-Carter.

Brian Ginna, a Half Moon Bay Resident - Commented on the importance of strong and responsible leadership, stating that after reviewing the candidate's resumes, he would encourage the Board to vote for the incumbent, Dr. James Kohnen.

Director Ascher advised the Board that he has attended CSDA meetings and also serves on the CSDA Legislative Committee and recommended that the Board cast their vote for Dr. James Kohnen. President Mickelsen agreed with the recommendation.

ON MOTION by Director Ascher and seconded by Director Larimer, the Board voted as follows, to cast the District's vote for Dr. James Kohnen to serve on Seat A for Region 3 of the CSDA's Board of Directors:

| | |
|-------------------------------|---------------|
| Director Coverdell | Aye |
| Vice-President Feldman | Absent |
| Director Larimer | Aye |
| Director Ascher | Aye |
| President Mickelsen | Aye |

C. Water Reclamation Update

Mr. Dickson reviewed the letter received August 5, 2009 from Bruce Russell from Kenmark Real Estate Group, Inc., which outlined a very different approach than was originally proposed in a previous letter sent to the District in March of 2009. He reviewed the concepts outlined in the letter, which align with CCWD's policy on the distribution of recycled water within the District's service boundary, as established in Resolution 2008-10. He summarized the concepts and key terms proposed in the letter, noting that he felt it was a positive approach and provides a basis for specific

discussions to move forward with Kenmark and the Sewer Authority Mid-Coastside (SAM).

Brian Ginna, a Half Moon Bay Resident – Stated that after attending a number of meetings with regard to water reclamation both at CCWD and SAM, he felt this was a positive approach that he hoped CCWD and SAM would both find favorable.

Director Larimer stated that he and Vice-President Feldman had attended a few water reclamation meetings and had discussed the contents of this letter prior to Vice-President Feldman leaving for vacation. He added that they were both enthusiastic about the letter and shared the view that it was a positive step forward that recognizes that CCWD will exercise its authority as the agency solely responsible for distributing recycled water to customers within the District's service boundary. He reviewed a few points that will have to be negotiated in regards to reaching terms in a possible agreement.

Director Ascher congratulated Mr. Dickson, Mr. Miyaki and the members of the CCWD Water Reclamation Committee for their recent work and commented that he was pleased to see Mr. Russell in the audience and he felt that the potential project was now moving in the right direction.

Marina Fraser, City of Half Moon Bay, SAM Chair and member of the SAM Recycled Water Committee – Stated that she was encouraged by the letter and agreed that this was a positive step forward for all the entities. She noted that the SAM Board had not yet reviewed this letter, but would do so at their meeting scheduled for the end of August.

Director Coverdell inquired whether CCWD had received the information and materials pertaining to their recent public record request from SAM. Mr. Dickson advised that CCWD had in fact received the 2,900 pages of materials, which he had briefly reviewed and to date had not identified anything worthy of significant discussion.

President Mickelsen reported that Vice-President Feldman had also been in contact with him prior to leaving town and requested that he relay that he also felt that this was a positive approach and that Kenmark had been very responsive to comments expressed by the CCWD Board at the meetings that have transpired over the past several months. He encouraged staff and the committee members to continue to work diligently to arrive at conditions that will satisfy all parties, with an end result of bringing recycled water to this community in the near future.

D. Connection Sale Survey

Mr. Dickson reviewed the background of this subject matter, and referenced the draft survey prepared by staff. He explained that upon the Board's approval of the survey, staff would proceed with the distribution, in order to determine the level of customer interest in purchasing the non-priority connections.

Board discussion ensued, including pricing of the connections, and potential restrictions on their use. Mr. Dickson reviewed the proposed general concepts for the sale and purchase of the connections contained in the survey and reiterated that staff is presenting a survey, not an actual contract at this time. Mr. Miyaki added that some very good and interesting ideas had come from the discussion, which will need to be evaluated in further detail to establish and develop such criteria as an allocation policy, contract terms, setting pricing and fees, etc. The Board continued to discuss various aspects and options regarding the survey and the prospective sale of connections.

ON MOTION by Director Larimer and seconded by Director Ascher, the Board voted as follows, to table discussion of the survey and agendize further discussion of the prospective sale of the connections until the next Board meeting, in September:

| | |
|-------------------------------|---------------|
| Director Coverdell | Aye |
| Vice-President Feldman | Absent |
| Director Larimer | Aye |
| Director Ascher | Aye |
| President Mickelsen | Aye |

7) GENERAL MANAGER'S REPORT INCLUDING MONTHLY INFORMATIONAL REPORTS

Mr. Dickson shared his comments regarding the recent tour of the Hetch Hetchy Water System. The Board had no questions or comments regarding the Monthly General Manager's Report.

- A. Monthly Water Resources Report**
- B. Water Shortage and Drought Contingency Plan Update**
- C. Operations Report**

Mr. Guistino addressed questions from Directors Ascher and Larimer regarding the Operations Report.

Ms. Brennan explained the State of California Department of Housing and Community Development's adopted new gray water standards.

8) DIRECTOR AGENDA ITEMS - REQUESTS FOR FUTURE BOARD MEETINGS

Agenda items discussed to place on the September Board of Directors meeting agenda included the sale of water connections and a review of the District's transfer policy.

9) ADJOURNMENT

ON MOTION by Director Ascher and seconded by Director Coverdell, the Board voted unanimously to adjourn the August 11, 2009 meeting of the Coastside County Water District's Board of Directors:

| | |
|-------------------------------|---------------|
| Director Coverdell | Aye |
| Vice-President Feldman | Absent |
| Director Larimer | Aye |
| Director Ascher | Aye |
| President Mickelsen | Aye |

The meeting was adjourned at 9:45 p.m. The next regular meeting of the Coastside County Water District's Board of Directors is scheduled for Tuesday, September 8, 2009.

Respectfully submitted,

David R. Dickson, General Manager
Secretary of the Board

Chris R. Mickelsen, President
Board of Directors
Coastside County Water District

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David Dickson, General Manager

Agenda: September 8, 2009

Report

Date: August 28, 2009

Subject: Monthly Water Transfer Report

Recommendation:

None. For Board information purposes only.

Background:

At the December 10, 2002 Board meeting and November 18, 2003 Special Board meeting, the Board made several changes to the District's water transfer policy. One of the changes directed the General Manager to approve routine water transfer applications that met the District's criteria as embodied in Resolution 2002-17 and Resolution 2003-19. The General Manager was also directed to report the number of water transfers approved each month as part of the monthly Board packet information.

Since the previous Board meeting in August 2009, one transfer application was approved for one—3/4" (30 gpm) non-priority water service connection. A spreadsheet reporting the transfer for the month of August 2009 follows this report as well as the approval from Patrick Miyaki and the confirmation letter from Glenna Lombardi.

APPROVED WATER TRANSFERS FOR THE 2009 CALENDAR YEAR

| DONATING APN | RECIPIENT APN | PROPERTY OWNERS | # OF CONNECTIONS | DATE |
|---------------------|----------------------|-------------------------------------|-------------------------|-------------|
| 037-320-270 | 064-271-340 | Corado-McComas L.P. to Moreland LLC | 1----3/4" non-priority | Aug-09 |

Memorandum

VIA ELECTRONIC MAIL

TO: Glenna Lombardi

FROM: Patrick T. Miyaki

DATE: August 5, 2009

RE: Applications to Transfer Uninstalled Non-Priority Water Service Connections

Glenna, I reviewed the Application to transfer an uninstalled non-priority water service connection from Corado McComas, L.P. to Moreland, LLC (APN 064-271-340). The Application is generally in order and satisfies the requirements of the District's General Regulations Regarding Water Service, Section U, Transfer of Uninstalled Water Service Connection Rights.

Please do not hesitate to contact me if you have any questions or want to discuss this matter in more detail.

cc: David Dickson

August 5, 2009

Corado, Inc./Corado-McComas L.P.
1717 N. Bayshore Drive #1432
Miami, Florida 33132

Moreland LLC
423 Broadway, Suite 622
Millbrae, CA 94030

Dear Property Owners:

RE: Request to Transfer Uninstalled Non-Priority Crystal Springs Project Water Service Connection

Dear Property Owners:

We are pleased to confirm that the Coastside County Water District has **approved** your request to transfer one---3/4" (30 gpm) non-priority Crystal Springs Project water service connection. The result of this transfer is as follows:

- **APN 037-320-270** continues to have the remaining rights to ten 5/8" (20 gpm) uninstalled, non-priority water service connections from the Coastside County Water District; and
- **APN 064-271-340** now has a one—3/4" (30 gpm) non-priority water service connection assigned to it from the Crystal Springs Project.

Please be advised that the City Council of the City of Half Moon Bay has taken the position that the transfer of a water service connection meets the definition of "development" so as to require a coastal development permit from the City. Applicants are advised to investigate this issue further with the Half Moon Bay Planning Department if applicable. The Coastside County Water District, in approving this application, does not make any representations or warranties with respect to further permits or approvals required by other governmental agencies, including the City of Half Moon Bay.

Sincerely,

Glenna Lombardi

Cc: David Dickson, General Manager

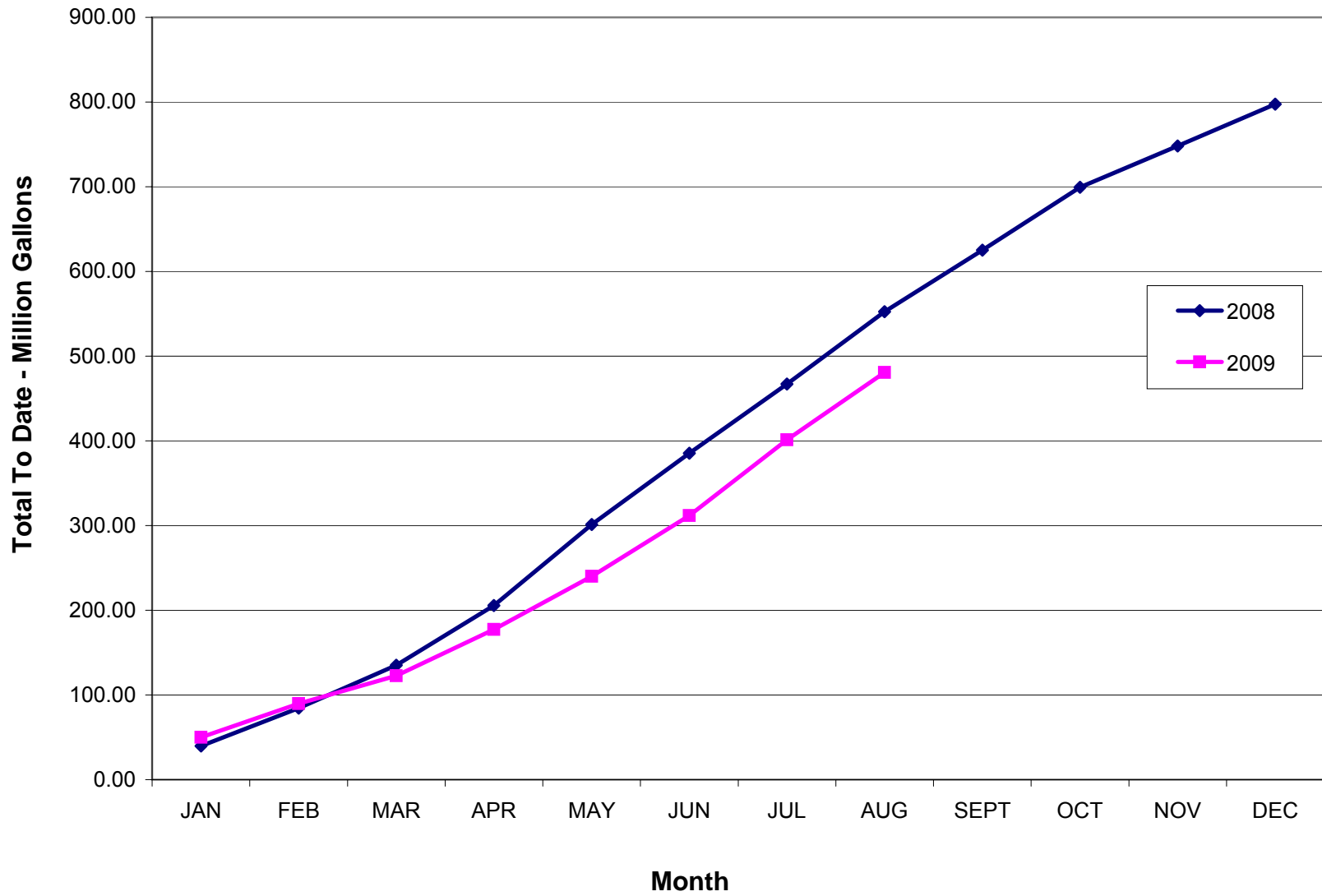
TOTAL CCWD PRODUCTION (MG) ALL SOURCES-2009

| | PILARCITOS WELLS | PILARCITOS LAKE | DENNISTON WELLS | DENNISTON RESERVOIR | CRYSTAL SPRINGS RESERVOIR | RAW WATER TOTAL | IN-PLANT USAGE AND UNMETERED WATER | TREATED TOTAL |
|----------------|-----------------------------|----------------------------|----------------------------|--------------------------------|--------------------------------------|----------------------------|---|--------------------------|
| JAN | 1.56 | 0.00 | 0.00 | 0.78 | 52.21 | 54.55 | 4.46 | 50.09 |
| FEB | 4.19 | 5.11 | 0.00 | 0.00 | 33.52 | 42.82 | 3.08 | 39.74 |
| MAR | 1.12 | 35.08 | 0.00 | 0.00 | 0.00 | 36.20 | 3.21 | 32.99 |
| APR | 0.00 | 58.566 | 0.30 | 0.76 | 0.00 | 59.63 | 5.17 | 54.46 |
| MAY | 0.00 | 49.27 | 2.43 | 12.46 | 3.77 | 67.93 | 5.00 | 62.93 |
| JUN | 0.00 | 57.09 | 2.38 | 11.07 | 5.84 | 76.38 | 4.74 | 71.64 |
| JUL | 0.00 | 1.78 | 0.00 | 1.27 | 90.10 | 93.15 | 3.64 | 89.52 |
| AUG | 0.00 | 0.00 | 0.00 | 0.00 | 82.30 | 82.30 | 2.91 | 79.39 |
| SEPT | | | | | | | | |
| OCT | | | | | | | | |
| NOV | | | | | | | | |
| DEC | | | | | | | | |
| TOTAL | 6.87 | 206.90 | 5.11 | 26.34 | 267.74 | 512.96 | 32.199 | 480.76 |
| % TOTAL | 1.3% | 40.3% | 1.0% | 5.1% | 52.2% | 100.0% | 6.3% | 93.7% |

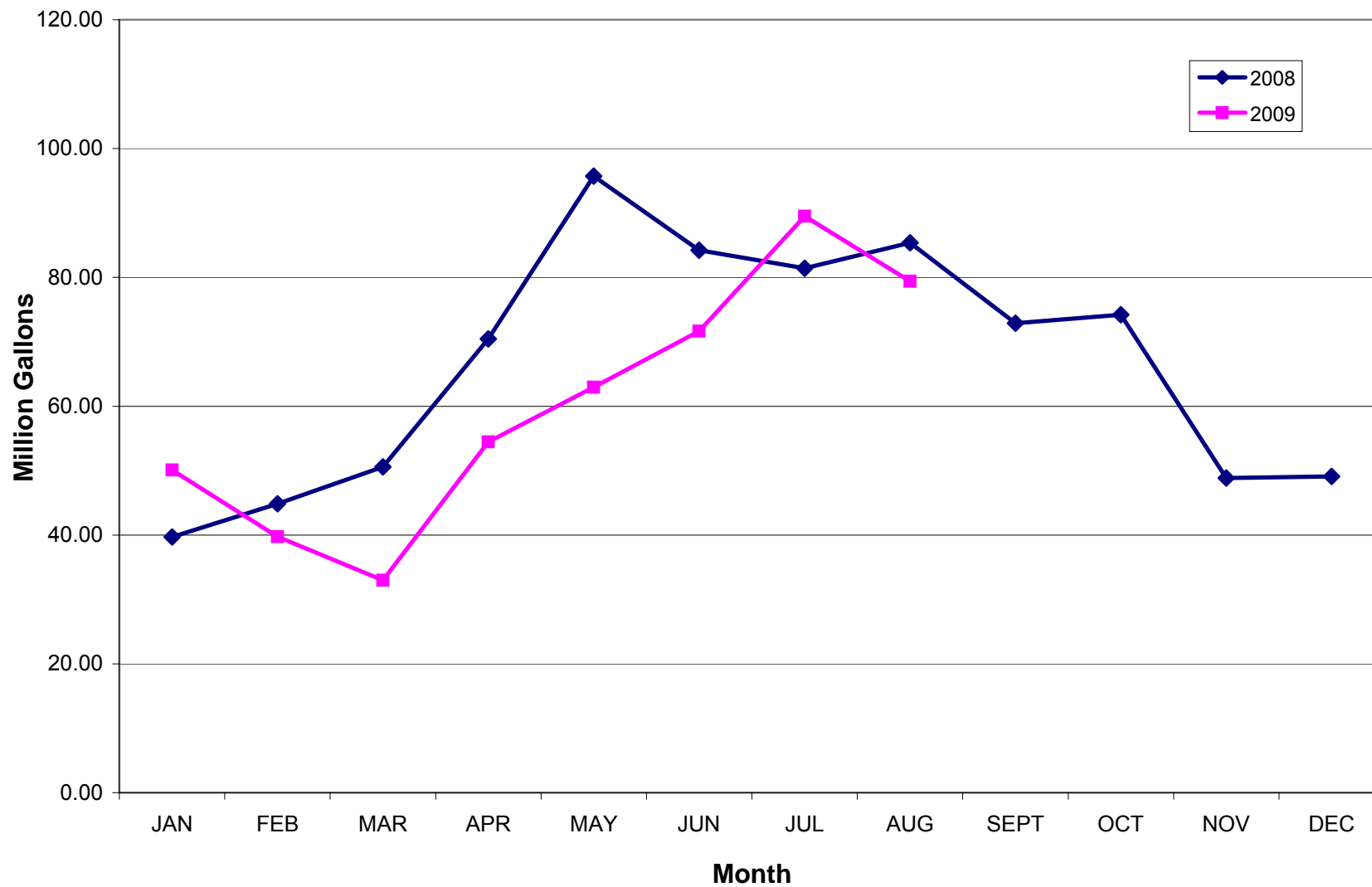
12 Month Running Treated Total

725.80

Cumulative Production 2009 vs. 2008



Monthly Production 2009 vs. 2008



**Coastside County Water District Monthly Sales By Category (MG)
2009**

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEPT | OCT | NOV | DEC | MG to Date |
|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|---------------|
| RESIDENTIAL | 23.097 | 35.336 | 18.88 | 37.224 | 23.718 | 48.096 | 29.420 | 55.001 | | | | | 270.77 |
| COMMERCIAL | 5.456 | 0.952 | 4.953 | 1.188 | 5.552 | 1.217 | 6.815 | 1.275 | | | | | 27.41 |
| RESTAURANT | 2.623 | 0.123 | 2.585 | 0.12 | 2.872 | 0.126 | 3.196 | 0.337 | | | | | 11.98 |
| HOTELS/MOTELS | 3.755 | 0.085 | 3.39 | 0.088 | 3.928 | 0.115 | 4.721 | 2.061 | | | | | 18.14 |
| SCHOOLS | 0.737 | 0.034 | 0.509 | 0.043 | 1.615 | 0.12 | 2.884 | 1.989 | | | | | 7.93 |
| MULTI DWELL | 1.863 | 1.331 | 2.533 | 1.277 | 2.441 | 1.435 | 2.872 | 3.378 | | | | | 17.13 |
| BEACHES/PARKS | 0.405 | 0.017 | 0.305 | 0.052 | 0.818 | 0.101 | 1.049 | 0.146 | | | | | 2.89 |
| FLORAL | 9.622 | 0.242 | 11.549 | 0.241 | 16.427 | 0.158 | 13.865 | 7.366 | | | | | 59.47 |
| RECREATIONAL | 0 | 0.17 | 0.046 | 0.221 | 0.055 | 0.203 | 0.070 | 0.260 | | | | | 1.03 |
| MARINE | 1.006 | 0 | 0.812 | 0 | 0.802 | 0 | 0.966 | 0.000 | | | | | 3.59 |
| IRRIGATION | 2.042 | 1.247 | 1.076 | 1.213 | 0.728 | 2.418 | 17.384 | 15.809 | | | | | 41.92 |
| Portable Meters | 0 | 0.371 | 0 | 0.193 | 0 | 0.362 | 0.000 | 1.739 | | | | | 2.67 |
| TOTAL - MG | 50.61 | 39.91 | 46.64 | 41.86 | 58.96 | 54.35 | 83.24 | 89.36 | 0.00 | 0.00 | 0.00 | 0.00 | 464.92 |

Running 12 Month Total

703.04

**Coastside County Water District Monthly Sales By Category (MG)
2008**

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEPT | OCT | NOV | DEC | MG to Date |
|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|---------------|
| RESIDENTIAL | 21.17 | 31.05 | 19.64 | 36.623 | 28.871 | 53.578 | 30.064 | 53.703 | 29.785 | 46.449 | 23.142 | 36.05 | 410.13 |
| COMMERCIAL | 5.38 | 1.1 | 6.17 | 1.23 | 6.781 | 1.477 | 7.938 | 1.441 | 7.877 | 1.238 | 5.593 | 1.026 | 47.25 |
| RESTAURANT | 1.96 | 0.04 | 2.13 | 0.053 | 2.887 | 0.045 | 3.231 | 0.026 | 2.673 | 0.127 | 3.722 | 0.123 | 17.02 |
| HOTELS/MOTELS | 4.48 | 0.24 | 4.5 | 0.138 | 5.305 | 0.136 | 5.671 | 0.158 | 5.778 | 0.126 | 1.831 | 0.088 | 28.45 |
| SCHOOLS | 0.93 | 0.07 | 0.86 | 0.068 | 2.224 | 0.171 | 3.515 | 0.115 | 3.428 | 0.103 | 0.332 | 0.052 | 11.87 |
| MULTI DWELL | 4.51 | 6.08 | 4.38 | 5.921 | 5.146 | 6.365 | 5.762 | 6.217 | 5.382 | 6.054 | 2.759 | 2.828 | 61.40 |
| BEACHES/PARKS | 0.38 | 0.01 | 0.28 | 0.025 | 0.786 | 0.064 | 1.173 | 0.079 | 0.993 | 0.094 | 0.568 | 0.009 | 4.46 |
| FLORAL | 17.55 | 0.21 | 17.31 | 0.227 | 22.968 | 0.293 | 16.961 | 0.35 | 15.601 | 0.306 | 6.556 | 0.292 | 98.62 |
| RECREATIONAL | 0.07 | 0.16 | 0.06 | 0.174 | 0.096 | 0.209 | 0.111 | 0.228 | 0.12 | 0.2 | 0.065 | 0.167 | 1.66 |
| MARINE | 1.15 | 0 | 0.32 | 0 | 0.402 | 0 | 0.37 | 0 | 1.143 | 0 | 0.943 | 0 | 4.33 |
| IRRIGATION | 3.12 | 0.48 | 0.12 | 1.476 | 14.77 | 3.251 | 28.197 | 3.333 | 17.651 | 2.634 | 0.382 | 1.695 | 77.11 |
| PORTABLE METERS | 0 | 0.33 | 0 | 0.284 | 0 | 1.296 | 0 | 1.587 | 0 | 1.735 | 0 | 0.403 | |
| MG | 60.70 | 39.77 | 55.77 | 46.22 | 90.24 | 66.89 | 102.99 | 67.24 | 90.43 | 59.07 | 45.89 | 42.73 | 767.93 |

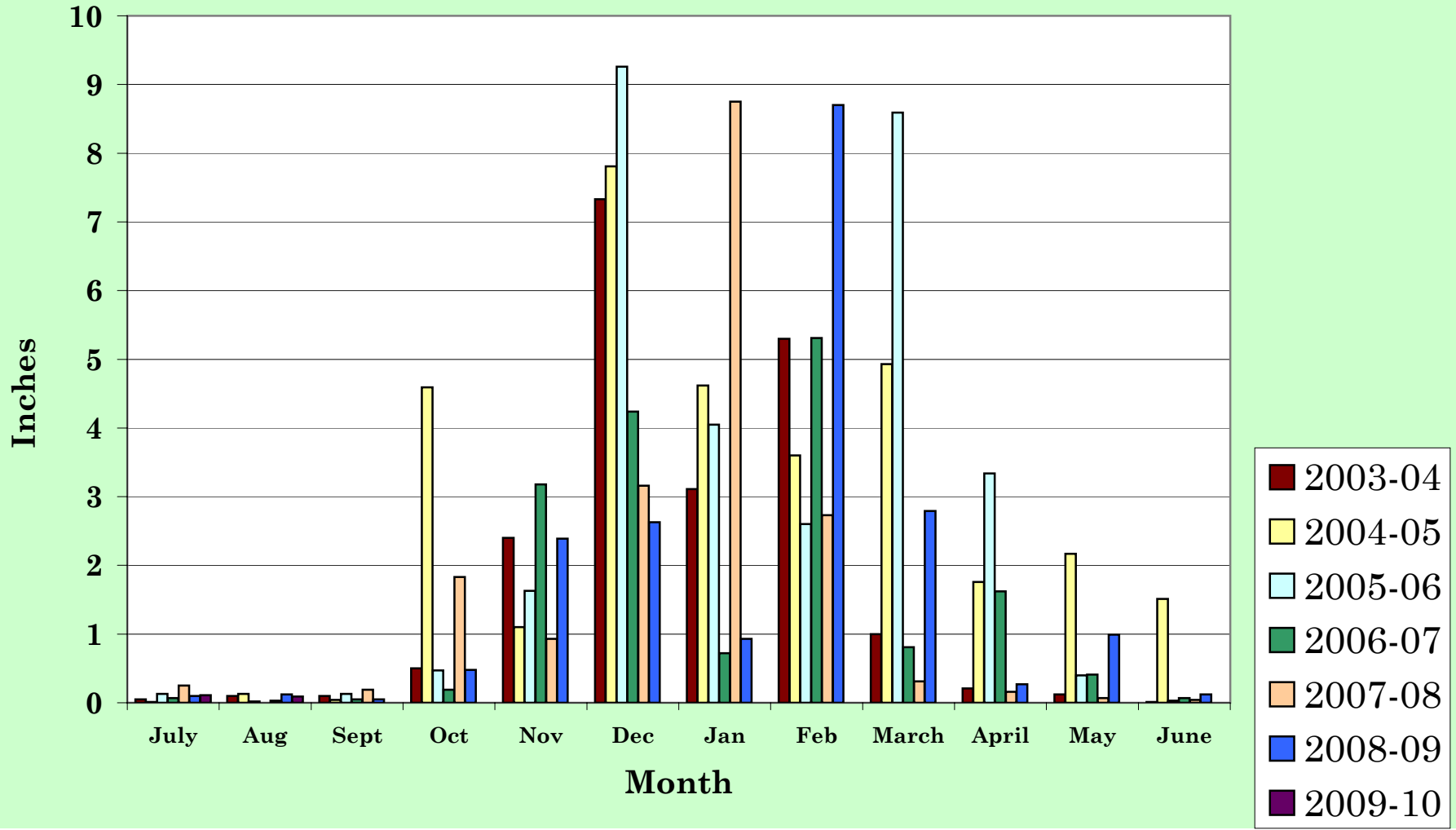
**Coastside County Water District
 Monthly Leak Report
 August 2009**

| Date | Location | City | Pipe Type/Size | Repair Material | Estimated Water Loss (gallons) | Repair Material Costs | Manpower and Equipment Costs | Estimated Cost of Repair (dollars) |
|--------------|-------------------------|-------------|-----------------------|---|---|----------------------------------|---|---|
| 05-Aug-09 | Railroad and Metzgar | HMB | 2" galv main | 1 - 2" galv gate valve/ 1 - 2" dayton/ 2 - 1' galv nipple/ 4"x2" galv bushing/ 1 - g5 box and lid | 50,000 | \$196.47 | \$2,050 | \$2,246 |
| 11-Aug-09 | Spruce and 4th | HMB | 1" plastic service | 1" brass coupling | 2,760 | \$13.45 | \$625.00 | \$638 |
| 27-Aug-09 | 472 Myrtle | HMB | 3/4" plastic service | 1 - 3/4x3/4 copxcop/ 1' 3/4" cop/1/2 ton rock | 2600 | 32.86 | \$425.00 | \$458 |
| 27-Aug-09 | 87 Valencia | Miramar | 1" plastic service | 1-1" copxcop/ 1 - 1" comp nut/ 30' 1" copper | 2600 | 243.66 | \$1,600.00 | \$1,844 |
| TOTAL | | | | | 57,960.00 | 486.44 | 4,700.00 | 5,186.44 |

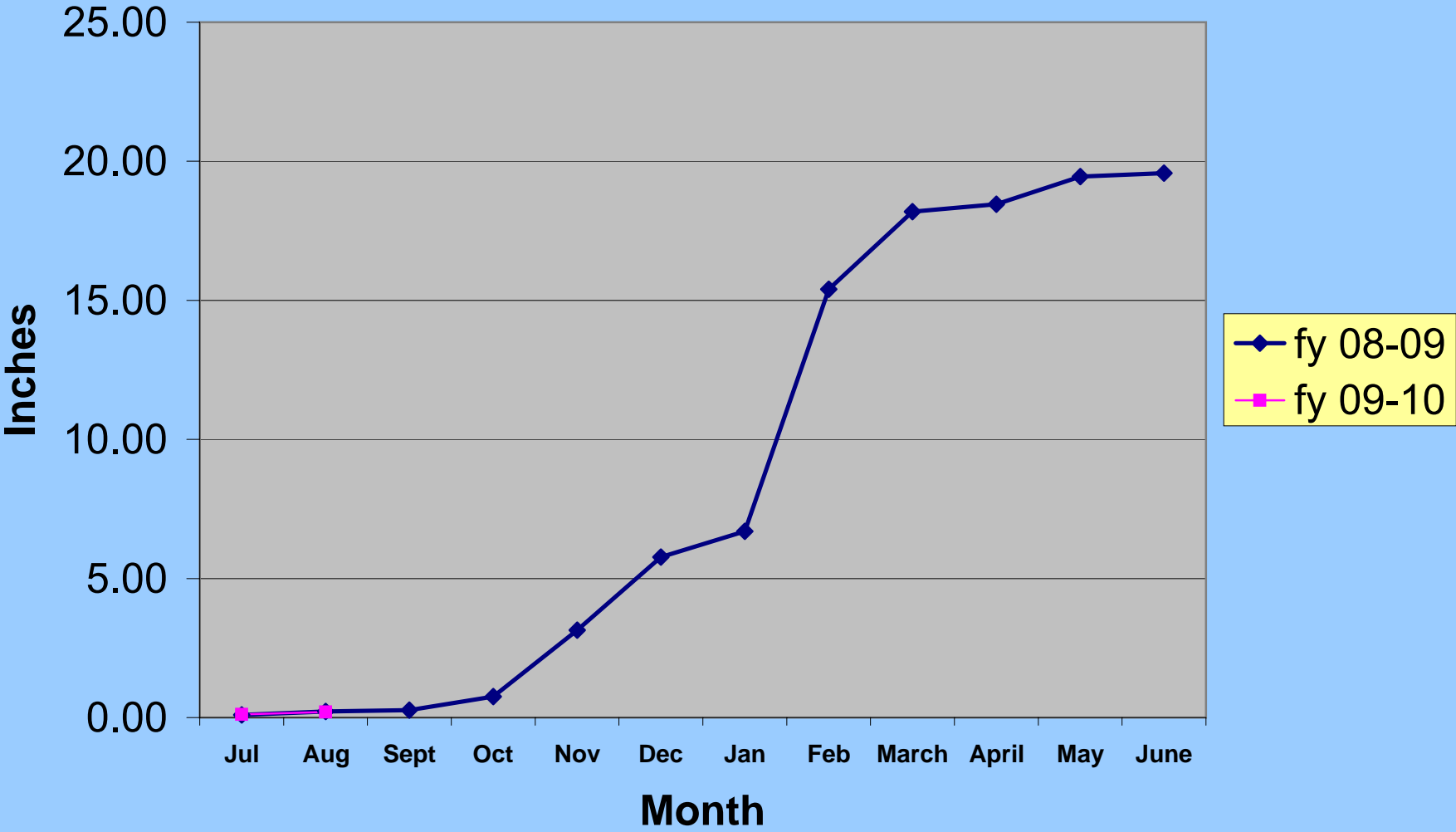
Coastside County Water District

Rainfall by Month

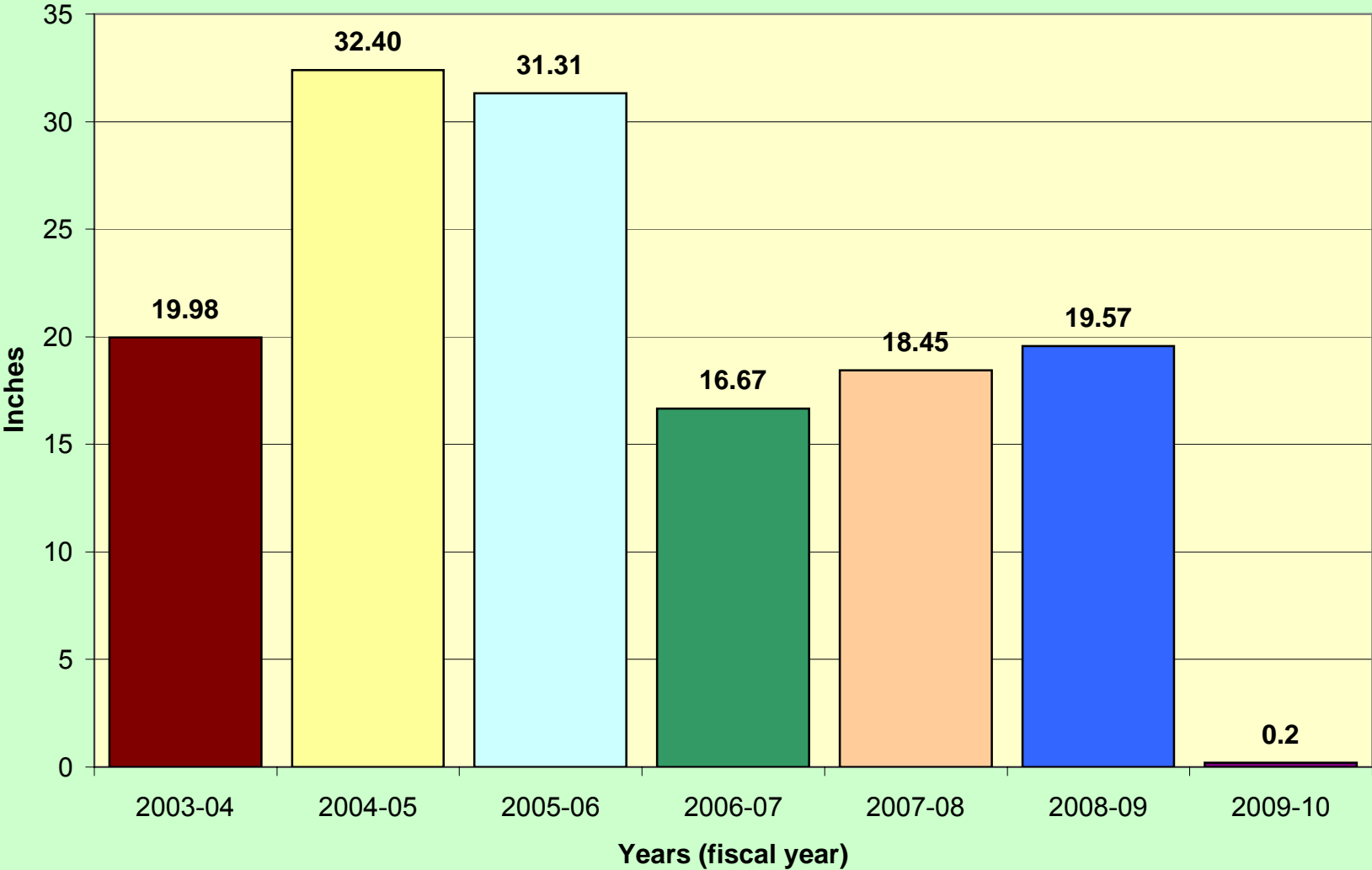
July '08 thru Jun '09



Rainfall Totals fy 08 - 09



Rain Totals



MONTHLY CLIMATOLOGICAL SUMMARY for AUG. 2009

NAME: Office CITY: Half Moon Bay STATE: CA ELEV: 80 LAT: 37 38' 00" LONG: 122 25'59"

TEMPERATURE (°F), RAIN (in), WIND SPEED (mph)

| DAY | MEAN | | | LOW | TIME | HEAT | COOL | RAIN | AVG | | TIME | DOM |
|-----|------|------|--------|------|--------|------|------|------|-------|------|--------|-----|
| | TEMP | HIGH | DEG | | | DEG | WIND | | SPEED | HIGH | | |
| 1 | 62.4 | 71.6 | 12:00p | 55.9 | 2:30a | 3.5 | 0.9 | 0.01 | 1.1 | 11.0 | 10:30a | SW |
| 2 | 64.0 | 74.0 | 11:30a | 58.0 | 5:00a | 2.7 | 1.7 | 0.00 | 1.5 | 13.0 | 1:30p | SW |
| 3 | 64.6 | 73.1 | 11:30a | 57.5 | 4:30a | 2.2 | 1.9 | 0.02 | 1.3 | 11.0 | 2:00p | SSW |
| 4 | 64.6 | 71.9 | 2:30p | 55.5 | 12:00m | 2.3 | 1.9 | 0.00 | 1.6 | 12.0 | 3:30p | SW |
| 5 | 66.4 | 75.7 | 12:00p | 55.0 | 1:00a | 1.6 | 3.0 | 0.01 | 1.2 | 10.0 | 3:30p | SW |
| 6 | 66.8 | 77.2 | 12:00p | 60.6 | 6:00a | 0.8 | 2.6 | 0.04 | 1.5 | 10.0 | 12:00p | SW |
| 7 | 65.2 | 73.8 | 4:00p | 60.5 | 5:00a | 1.5 | 1.7 | 0.00 | 1.7 | 11.0 | 1:00p | SW |
| 8 | 63.9 | 70.9 | 5:30p | 57.6 | 5:30a | 2.4 | 1.3 | 0.00 | 1.5 | 9.0 | 12:00p | SSW |
| 9 | 61.9 | 70.9 | 3:00p | 51.9 | 5:00a | 4.3 | 1.2 | 0.00 | 1.1 | 9.0 | 11:30a | SW |
| 10 | 63.9 | 74.1 | 3:00p | 52.7 | 3:30a | 3.7 | 2.6 | 0.00 | 1.5 | 11.0 | 12:30p | S |
| 11 | 64.2 | 73.5 | 2:30p | 57.6 | 5:30a | 2.3 | 1.6 | 0.01 | 1.1 | 9.0 | 3:00p | SE |
| 12 | 64.7 | 74.1 | 3:30p | 58.4 | 5:30a | 2.1 | 1.8 | 0.00 | 1.1 | 9.0 | 1:30p | SSW |
| 13 | 63.7 | 70.8 | 3:30p | 56.4 | 2:30a | 2.6 | 1.4 | 0.00 | 1.7 | 12.0 | 12:30p | SSW |
| 14 | 63.1 | 73.8 | 2:30p | 54.0 | 5:30a | 3.4 | 1.5 | 0.00 | 2.1 | 14.0 | 11:00a | SSW |
| 15 | 62.1 | 69.3 | 2:00p | 55.6 | 10:00p | 3.6 | 0.7 | 0.00 | 1.6 | 10.0 | 3:00p | SSW |
| 16 | 61.6 | 69.5 | 4:30p | 56.1 | 2:00a | 4.0 | 0.6 | 0.00 | 1.4 | 8.0 | 11:30a | SSW |
| 17 | 61.4 | 71.0 | 2:00p | 54.8 | 1:00a | 4.3 | 0.7 | 0.00 | 1.4 | 11.0 | 4:30p | SSW |
| 18 | 63.2 | 73.3 | 2:00p | 56.7 | 5:00a | 3.3 | 1.5 | 0.00 | 0.8 | 8.0 | 1:30p | SSW |
| 19 | 64.0 | 74.9 | 2:00p | 58.0 | 6:00a | 2.6 | 1.6 | 0.00 | 1.4 | 10.0 | 12:00p | S |
| 20 | 64.4 | 73.5 | 4:00p | 57.3 | 10:30p | 2.4 | 1.8 | 0.00 | 1.3 | 11.0 | 2:30p | SE |
| 21 | 62.2 | 70.6 | 11:00a | 54.8 | 12:00m | 3.7 | 0.9 | 0.00 | 0.8 | 9.0 | 3:00p | SSW |
| 22 | 61.9 | 70.8 | 3:00p | 53.7 | 3:30a | 4.0 | 0.9 | 0.00 | 1.4 | 8.0 | 2:30p | SSW |
| 23 | 62.0 | 71.0 | 2:30p | 57.9 | 8:00p | 3.6 | 0.7 | 0.00 | 1.8 | 9.0 | 12:00p | SSW |
| 24 | 62.5 | 72.7 | 2:30p | 56.8 | 6:00a | 3.7 | 1.2 | 0.00 | 1.8 | 9.0 | 10:30a | SSW |
| 25 | 62.3 | 73.4 | 2:30p | 56.6 | 2:00a | 3.9 | 1.2 | 0.00 | 1.5 | 10.0 | 12:00p | SSW |
| 26 | 60.9 | 70.2 | 11:00a | 53.7 | 6:00a | 4.7 | 0.6 | 0.00 | 0.9 | 11.0 | 1:30p | SSW |
| 27 | 61.7 | 75.6 | 3:00p | 49.4 | 5:00a | 5.0 | 1.7 | 0.00 | 1.2 | 9.0 | 12:30p | SSW |
| 28 | 70.1 | 92.0 | 11:30a | 55.8 | 1:00a | 2.0 | 7.1 | 0.00 | 1.1 | 13.0 | 11:00a | N |
| 29 | 65.9 | 73.3 | 2:00p | 59.4 | 11:30p | 1.7 | 2.6 | 0.00 | 1.3 | 9.0 | 2:00p | SSW |
| 30 | 61.2 | 69.7 | 12:30p | 56.6 | 6:00a | 4.3 | 0.4 | 0.00 | 1.3 | 11.0 | 2:30p | SSW |
| 31 | 62.1 | 69.8 | 11:30a | 56.2 | 4:30a | 3.7 | 0.8 | 0.00 | 1.3 | 12.0 | 2:00p | WSW |
| | 63.5 | 92.0 | 28 | 49.4 | 27 | 95.9 | 50.0 | 0.09 | 1.4 | 14.0 | 14 | SSW |

Max >= 90.0: 1

Max <= 32.0: 0

Min <= 32.0: 0

Min <= 0.0: 0

Max Rain: 0.04 ON 8/06/09

Days of Rain: 2 (>.01 in) 0 (>.1 in) 0 (>1 in)

Heat Base: 65.0 Cool Base: 65.0 Method: Integration

STAFF REPORT

To: Coastside County Water District Board of Directors
From: David Dickson, General Manager
Agenda: September 8, 2009

Report

Date: August 28, 2009

Subject: Authorization to Write Off Bad Debts for Fiscal Year 2008-2009

Recommendation

Authorize staff to write off bad debts for fiscal year 2008-2009 (July 1 2008 through June 30, 2009) in the total amount of \$8,784.62.

Background

The process of writing off bad debts takes place at the end of each fiscal year as part of the year-end closeout and audit process. At this time, staff requests that the Board authorize the General Manager to write off the debts that have not been collected throughout the fiscal year.

The majority of the bad debts are customers which have discontinued service with the District without rendering payment of their final closing bills. Staff's efforts to locate the customers and collect payment on these accounts have been exhausted.

The following represents the bad debt amounts written off over the past five (5) years:

| | |
|------|------------|
| 2008 | \$6,356.36 |
| 2007 | \$6,621.91 |
| 2006 | \$3,141.85 |
| 2005 | \$3,191.88 |
| 2004 | \$5,428.40 |

Fiscal Impact: \$8,784.62.

**Coastside County Water District
Write Off Bad Debts
Year Ending June 30, 2009**

| Account Number | Name | Amount Due |
|-----------------------|----------------------------------|-------------------|
| 010782-000 | HMB Inn Restaurant/Steve Gericke | \$2,018.62 |
| 007141-000 | Bill Evans | \$1,101.29 |
| 013297-000 | Joshua/Marina Trayer | \$628.26 |
| 014577-000 | Patricia McGrath | \$484.56 |
| 008813-000 | Jeron Garcia | \$379.58 |
| 009532-000 | Happy Cooker Restaurant | \$373.75 |
| 013864-000 | Mark Mosely/Denise Rios | \$342.55 |
| 013054-000 | Julie Raizes | \$291.07 |
| 005264-000 | Q.B. Thompson | \$268.66 |
| 010128-000 | Harold Majocha | \$253.23 |
| 013323-000 | Joel Moreno | \$227.12 |
| 013627-000 | Sheri Carpenter | \$169.09 |
| 012280-000 | Ivette Colon | \$162.13 |
| 002838-000 | Tom Pongrujaporn | \$141.83 |
| 012078-000 | Edward Williams | \$133.12 |
| 014694-000 | T. Miller/J. Campbell | \$127.01 |
| 009012-000 | Benito Martinez | \$122.53 |
| 012640-000 | M. Rios/A. Procopio | \$111.38 |
| 004274-000 | Jose Procopio | \$110.08 |
| 003912-000 | Shirley Olea | \$109.76 |
| 011561-000 | Amanda Olson | \$94.75 |
| 013916-000 | Timothy Johnston Carruthers | \$89.22 |
| 012844-000 | Genaro Patiro | \$74.22 |
| 000781-000 | Gary Cambra | \$66.71 |
| 009482-000 | Remax Dolphin Real Estate | \$61.36 |
| 003027-000 | Margaret Lindsey | \$60.87 |
| 013951-000 | M. Rios/A. Procopio | \$58.88 |
| 013780-000 | Larry Delfino | \$54.95 |
| 003537-000 | Amalia Miller | \$54.55 |
| 012309-000 | Joann O'Connor | \$52.30 |
| 012877-000 | Rachel Judkins | \$50.51 |
| 012190-000 | Jeanette Paulsen | \$48.21 |
| 013733-000 | Drew Lewis | \$46.64 |
| 008234-000 | Barbara Quest | \$46.29 |
| 009483-000 | Remax Dolphin Real Estate | \$44.40 |
| 013687-000 | Edith Wretschko | \$43.41 |
| 013413-000 | Neeke Smith | \$39.23 |
| 014324-000 | Terry Fischer | \$33.11 |
| 013980-000 | Daniel Short | \$32.58 |
| 013793-000 | Khristie Karkanen | \$28.42 |
| 012540-000 | Josefina Hernandez | \$25.28 |
| 013131-000 | M. Ellison/A. Apallinario | \$25.11 |
| 014058-000 | Valentina Moya | \$19.99 |
| 014038-000 | Glenn Cameron | \$18.06 |
| 013759-000 | Mystic Gifts | \$17.63 |
| 009753-000 | Rahul Diesh | \$13.51 |
| 014681-000 | Myron/Linda Aolister | \$11.95 |
| 013481-000 | William/Teri Grissom | \$10.86 |
| 013979-000 | Daniel Short | \$6.00 |
| | | |
| | Total Amount Due | \$8,784.62 |

STAFF REPORT

To: Coastside County Water District Board of Directors
via David Dickson, General Manager

From: Joe Guistino

Agenda: September 8, 2009

Report

Date: September 2, 2009

Subject: Purchase of Box Culvert

Recommendation: Authorize Staff to purchase the pre-cast concrete box culvert for the Pilarcitos Culvert Repair Project for \$26,000.

Background: The January storms of 2008 severely damaged a large culvert that supports the Pilarcitos Canyon access road. We had made two emergency but temporary repairs that were aimed at preventing further damage at that time. The culvert sits adjacent to our main raw water transmission pipeline and staff feels that further damage or shifting of the old culvert could severely compromise or damage the pipeline.

We have garnered a CDP from the San Mateo County Planning Commission and will have received a Streambed Alteration Agreement from the Department of Fish and Games to do the project in September-October, which corresponds with low flows in Pilarcitos Creek. We also have a complete design and stream bypass plan in place and have solicited bids for construction. Since there is a 4-5 week lead time for the manufacture of the concrete culvert and since we are also nearing our deadline for completion (15 October), we are requesting the purchase of this item now to prevent any more delays. Direct District purchase of the culvert will also save the contractor markup of 10-15%.

The streambed bypass and the actual installation should take 5-7 days.

Fiscal Impact: \$200,000 is budgeted in the FY10 CIP for this project.

STAFF REPORT

To: Coastside County Water District Board of Directors
via David Dickson, General Manager

From: Joe Guistino

Agenda: September 1, 2009

Report

Date: September 8, 2009

Subject: Purchase of Crystal Springs Check Valves

Recommendation: Authorize Staff to purchase new 18" and 12" check valves for the Crystal Springs Pump Station (PS) from Pump Repair Inc. for a total cost of \$34,000

Background: Large pump stations like Crystal Springs that move water up to high elevations require check valves to prevent the water from flowing back to the source, causing the pumps and motors to spin at very high speeds in reverse and possibly resulting in major component damage. There are four check valves at this station: three 12" check valves and the master 18" check for the whole station. These valves were installed in 1992 and are reaching the end of their useful life. The operators have noted for the last 5 years that these checks allow water to leak back when the station is shut down for the season, draining the Cahill Reservoir. This violates our agreement with San Francisco Public Utilities Commission (SFPUC) to keep Cahill full at all times for fire protection. The dampening systems on these valves are no longer working well and the operators have observed the valves slamming shut after pump shutdown.

Staff proposes to replace the large valve first and then send the old one in for refurbishing and storage for future use. The small valve will be exchanged for the present unit in Pump #1, which will also be sent out for refurbishment. Once refurbished, we will exchange it for the unit on Pump #2 and so forth.

The received bids from Pump Repair Inc. and Roberts and Brune are as follows:

Pump Repair Inc. - \$33,713

Roberts & Brune - \$34,009

Fiscal Impact: \$100,000 is budgeted in the FY10 CIP for replacement of these check valves.

STAFF REPORT

To: Coastside County Water District Board of Directors
via David Dickson, General Manager

From: Joe Guistino

Agenda: September 8, 2009

Report

Date: September 2, 2009

Subject: Award of Contract for Biological Services

Recommendation: Authorize Staff to award contract for the Denniston Dredging and Pilarcitos Canyon Culvert Repair Projects Biological Monitoring to Jim Steele.

Background: These projects have been granted Coastal Development Permits (CDP) as Mitigated Negative Declaration Projects by the San Mateo County Planning Commission. The Conditions of Approval include the required services of a Certified Biologist to monitor environmental and special status species concerns. Mr. Steele was the lower bidder for this project as follows:

Jim Steele - \$18,000
TRC - \$32,934

Scope of the biological work includes:

- Survey of the areas to be excavated for nesting birds and special status species like the California Red Legged Frog (CRLF), the San Francisco Garter Snake (SFGS) and the Western Pond Turtle (WPT).
- Survey dewatered reservoir for stranded aquatic life. Rescue if needed.
- Training of all workers on the site with special status species identification
- Administer the dewatering and turbidity monitoring plans
- Design layout and supervise construction of the snake and siltation fences

Mr. Steele is retired from the position of Branch Chief at the California Department of Fish and Games and is recognized by them as a Certified Biologist. He is past president of the American Fisheries Society and is a licensed Professional Forester.

Fiscal Impact: \$18,000 is available in the CIP Denniston Dredging Project budget for this task.

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David Dickson, General Manager

Agenda: September 8, 2009

Report

Date: September 1, 2009

Subject: Acceptance of the Carnoustie Subdivision Water System

Recommendation:

Accept the water system improvements for the Carnoustie Subdivision Water System as complete.

Background:

On February 26, 2009 the District entered into a Water Service Agreement with Carnoustie, LLC for the construction of the water system improvements for the Carnoustie Subdivision Project.

The water system for the Carnoustie Subdivision Project consists of approximately 2000 feet of 8-inch water pipeline and all necessary appurtenances. The water system will service 32 lots for which the applicant has water service connections. The dollar value of the project is \$275,760.

Section 12 of the agreement contains the following items that must be completed before the District accepts the Project Utility System:

- Completion of the Project Utility System
- Certification by the District Engineer that the Project Utility System was constructed in accordance with the Agreement
- Furnish evidence that all costs for the construction of the Project have been paid
- Payment of all fees to the District
- Provide As-built drawings of the Project

All five of these conditions have been met.

Fiscal Impact:

None, all costs for this project have been paid by the developer.

STAFF REPORT

To: Coastside County Water District Board of Directors
Via David Dickson, General Manager

From: Joe Guistino

Agenda: September 8, 2009

Report

Date: September 2, 2009

Subject: Award of Contract for the Pilarcitos Culvert Repair Project

Recommendation: Authorize Staff to award contract to replace damaged Pilarcitos Culvert to Andreini Bros. Inc. for \$72,968.43

Background: Five contractors were invited to bid on this project and a notice was placed in the Half Moon Bay Review. The bids received were as follows:

| | |
|---------------------------|--------------|
| Andreini Bros. Inc. | \$ 72,968.43 |
| Stoloski & Gonzalez, Inc. | \$ 77,497.50 |
| JMB Construction, Inc. | \$132,873.00 |

We have been granted a Coastal Development Permit (CDP) by the San Mateo County Planning Commission and will have received a Streambed Alteration Agreement (SAA) from the California Department of Fish and Game by 1 October, which is when we anticipate this project to start. The project involves biological surveys and mitigation for special status species, construction of a stream bypass around the construction site, removal of the temporary bridge and damaged culvert, streambed preparation and placement of 6 sections of box culvert, placement of rip rap and restoration of the original grade to Pilarcitos Canyon access road. Actual time in the streambed should be 5 - 7 days. We can only be in the streambed between September and October 15, the window allotted to us by the CDP and SAA when the stream is expected to be at its lowest. Provisions are in both permits to extend the October 15 deadline providing there is no rain forecast for the period requested.

Fiscal Impact: \$200,000 has been allocated for this project in the FY 10 Capital Improvement Budget.

San Francisco Public Utilities Commission

Hydrological Conditions Report

For August 2009

J. Chester, B. McGurk, A. Mazurkiewicz, M. Tsang, September 4, 2009

Current System Storage

Current Tuolumne System and Local Bay Area storage conditions are summarized in Table 1.

| Table 1 | | | | | | | |
|--------------------------------|-----------------|---------------------|-----------------|---------------------|--------------------|---------------------|----------------------------|
| Current Storage | | | | | | | |
| As of September 1, 2009 | | | | | | | |
| Reservoir | Current Storage | | Maximum Storage | | Available Capacity | | Percent of Maximum Storage |
| | Acre-Feet | Millions of Gallons | Acre-Feet | Millions of Gallons | Acre-Feet | Millions of Gallons | |
| Tuolumne System | | | | | | | |
| Hetch Hetchy ^{1/} | 318,845 | | 360,360 | | 41,515 | | 88.5% |
| Cherry ^{2/} | 246,428 | | 273,340 | | 26,912 | | 90.2% |
| Lake Eleanor ^{3/} | 21,405 | | 27,100 | | 5,695 | | 79.0% |
| Water Bank | 570,000 | | 570,000 | | 0 | | 100% |
| Tuolumne Storage | 1,156,678 | | 1,230,800 | | 74,122 | | 94.0% |
| Local Bay Area Storage | | | | | | | |
| Calaveras ^{4/} | 38,110 | 12,418 | 96,824 | 31,550 | 58,174 | 19,132 | 39.4% |
| San Antonio | 48,845 | 15,265 | 50,496 | 16,454 | 3,650 | 1,190 | 92.8% |
| Crystal Springs | 53,470 | 17,423 | 58,377 | 19,022 | 4,960 | 1,599 | 91.6% |
| San Andreas | 18,438 | 6,008 | 18,996 | 6,190 | 558 | 182 | 97.1% |
| Pilarcitos | 1,962 | 639 | 3,100 | 1,010 | 1,137 | 371 | 63.3% |
| Total Local Storage | 158,825 | 51,753 | 227,793 | 74,226 | 68,966 | 22,473 | 69.7% |
| Total System | 1,315,503 | | 1,458,593 | | 143,088 | | 90.2% |

^{1/} Maximum Hetch Hetchy Reservoir storage with drum gates activated.

^{2/} Maximum Cherry Reservoir storage with flash-boards in.

^{3/} Maximum Lake Eleanor storage with all stop-logs in.

^{4/} Available capacity does not take into account current DSOD storage restrictions.

Hetch Hetchy System Precipitation Index ^{5/}

Current Month: The August precipitation index is 0.21 inch, or 116.2% of the average index for the month. Precipitation fell on two days in August due to convective storm activity.

Precipitation varied greatly in intensity and duration, and inflow to Hetch Hetchy increased briefly.

Cumulative Precipitation to Date: The accumulated precipitation index for water year 2009 is 35.2 inches, which is 98.9% of the average annual water year total, and 100.4% of the season-to-date precipitation index. The cumulative precipitation for the Hetch Hetchy gauge is shown in Figure 1 in red, indicating that accumulated precipitation at Hetch Hetchy is above average to date.

^{5/}The precipitation index is computed using six Sierra precipitation stations and is an indicator of the wetness of the basin for the water year to date. The index is computed as the average of the six stations and is expressed in inches and in percent.

Precipitation at Hetch Hetchy: Water Year 2009

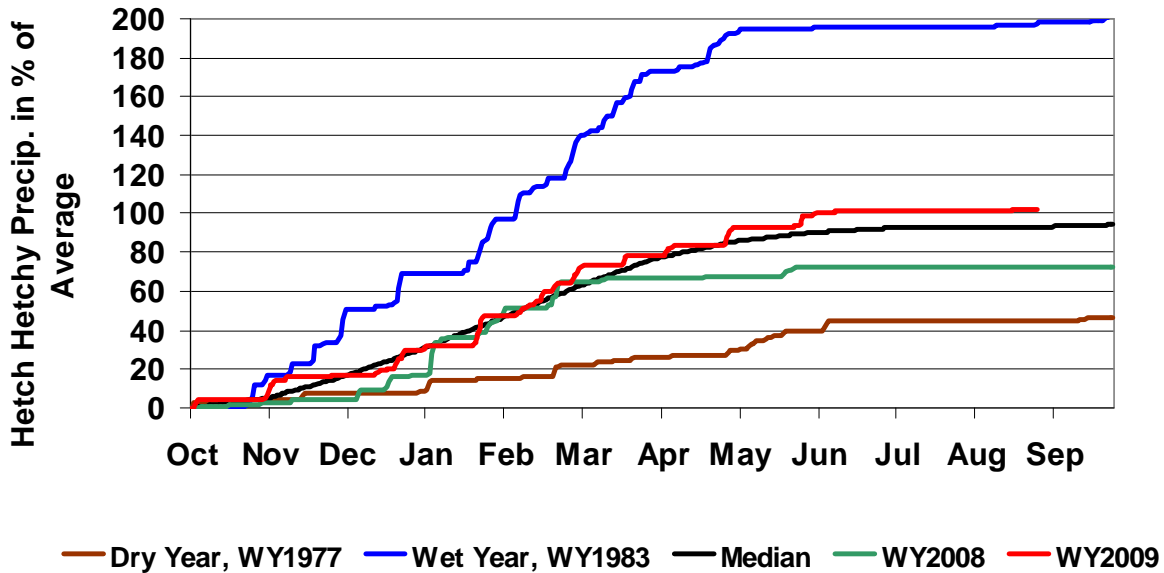


Figure 1: Water Year 2009 cumulative precipitation received at Hetch Hetchy Reservoir through the end-of-month August. Precipitation curves for wet, dry, median, and WY 2008 years for the station at Hetch Hetchy are included for comparison purposes.

Tuolumne Basin Unimpaired Inflow

Unimpaired inflow to SFPUC reservoirs and the Tuolumne River at La Grange as of August 31st is summarized below in Table 2. August inflow to Hetch Hetchy Reservoir was 5,447 acre-feet, or 38.0% of the long-term average, while inflow at La Grange was 58.6% of average. Streamflow throughout the Tuolumne Basin during August was near typical summer low flow conditions, with the exception of response to thunderstorm activity. There was no new water available for the City from the inflow in August.

| Table 2 Unimpaired Inflow Acre-Feet | | | | | | | | |
|--|---------------|---------------------|----------------------|--------------------|---|---------------------|----------------------|--------------------|
| | August 2009 | | | | October 1, 2008 through August 31, 2009 | | | |
| | Observed Flow | Median ⁶ | Average ⁶ | Percent of Average | Observed Flow | Median ⁶ | Average ⁶ | Percent of Average |
| Inflow to Hetch Hetchy Reservoir | 5,447 | 7,379 | 14,316 | 38.0% | 757,073 | 704,750 | 742,515 | 100.2% |
| Inflow to Cherry Reservoir and Lake Eleanor | 0 | 1,575 | 3,137 | 0.0% | 456,632 | 443,769 | 449,786 | 101.5% |
| Tuolumne River at La Grange | 14,498 | 16,854 | 24,729 | 58.6% | 1,656,858 | 1,760,943 | 1,831,266 | 90.5% |
| Water Available to the City | 0 | 0 | 1,448 | 0.0% | 586,002 | 620,855 | 781,936 | 74.9% |

⁶ Hydrologic Record: 1919 – 2005.

Hetch Hetchy System Operations

A total of 35.4 TAF of water was released from Hetch Hetchy Reservoir in August to support minimum streamflow releases and SJPL deliveries. Operational changes in minimum streamflow releases were made in order to support aquatic habitat mapping studies in the Tuolumne River below Hetch Hetchy. These studies are being performed in conjunction with the Natural Resources Division of the SFPUC, the U.S.D.I. Fish and Wildlife Service and National Park Service, and the U.S.D.A. Forest Service. Studies will continue intermittently into October. During August, about 13,529 acre-feet of power draft was made from Cherry Reservoir to support the City's Municipal load, District Class 1, and recreational releases. No water was pumped from Eleanor to Cherry in August in order to maintain the recreational pool level through September. The City's Water Bank account in Don Pedro Reservoir remained full throughout August.

Local System Operations

The average rate at the Sunol Valley Water Treatment Plant for August was 28 MGD. The Harry Tracy Water Treatment Plant rate averaged 19 MGD in August.

Local System Water Demand

August water demand averaged approximately 288 MGD, a less than 1% increase over the July average of 287 MGD. Water demand in August 2009 was down approximately 2% from August 2008.

Local Precipitation

Very light precipitation fell across the local watersheds during the month of August as recorded at Calaveras and Pilarcitos reservoirs. Precipitation totals are presented in Table 3.

Table 3. Precipitation totals for August 2009, at three Local Area reservoirs

| Reservoir | Month Total (inches) | Percentage of Normal for the Month | Year To Date ⁷ (inches) | Percentage of Normal for the Year-to-Date ⁷ |
|-----------------------|----------------------|------------------------------------|------------------------------------|--|
| Pilarcitos | 0.01 | 7 % | 0.01 | 5.0 % |
| Lower Crystal Springs | 0.00 | 0 % | 0.00 | 0.0 % |
| Calaveras | 0.04 | 4 % | 0.04 | 36.0 % |

⁷ Since July 1 2009

Snowmelt and Water Supply

Water Year 2009 had slightly above normal precipitation and inflows, which resulted in full capacity in all Up-country reservoirs this water year. Seasonal runoff conditions in the Tuolumne River Basin during Water Year 2009 are some of the best conditions in California.

Current conditions have become seasonally dry and there are no expected precipitation events except for the occasional isolated high country thunderstorms which could bring short-term elevated streamflow. September brings slight possibilities of extended storm patterns, however these are rare. Seasonal dry conditions are expected to continue into the fall.

There is currently one wildfire burning in the Hetch Hetchy watershed, and another that is

expanding toward the Hetch Hetchy watershed. The Wildcat Fire has burned approximately 1,250 acres on both sides of the Tuolumne River about 17 miles upstream from Hetch Hetchy Reservoir. There is currently low fire activity due to limited fuel sources and rocky terrain. The Big Meadow Fire, however, has burned over 5,000 acres on both sides of Highway 120 (currently closed) between Crane Flat and the Merced River, and is only 50% contained. Air tankers and numerous crews are trying to prevent the spread of the fire north to Tioga Road.

Unimpaired Flow at La Grange & Water Available to the City

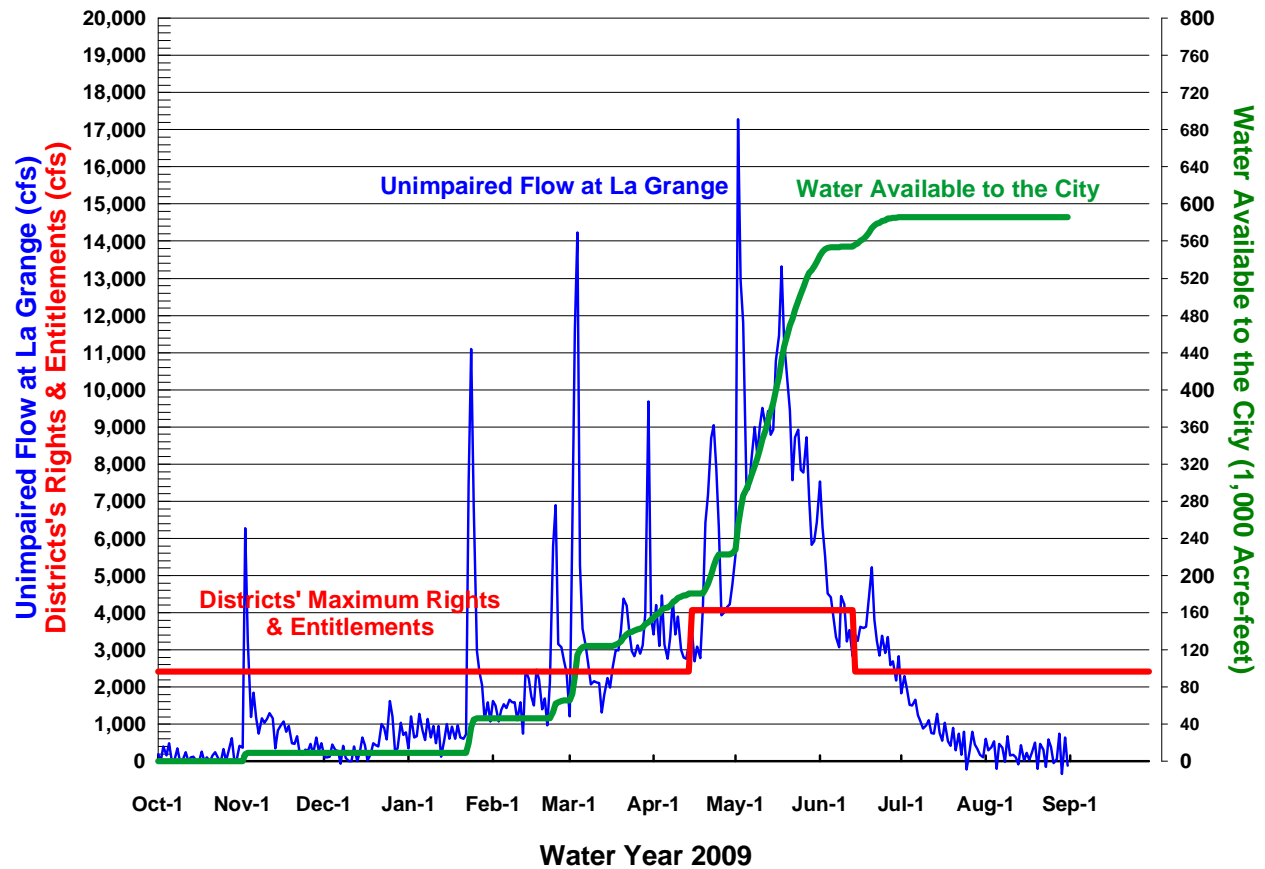


Figure 2: Calculated unimpaired flow at La Grange and the allocation of flows between the Districts and the City. Water available to the City for the period from October 1st, 2008 through August 31st, 2009 was 586,002 acre-feet.

| | | | | |
|----|-----------------|---------------------|--------------------|-------------------|
| cc | HHWP Records | Dufour, Alexis | Levin, Ellen | Rydstrom, Todd |
| | Briggs, David | Gibson, Bill | Mazurkiewicz, Adam | Samii, Camron |
| | Cameron, David | Hale, Barbara | McGurk, Bruce | Sandkulla, Nicole |
| | Carlin, Michael | Hannaford, Margaret | Meier, Steve | Sanguinetti, Dave |
| | Chester, John | Harrington, Ed | Nelson, Kent | Tsang, Michael |
| | DeGraca, Andrew | Jensen, Art | Patterson, Mike | Winnicker, Tony |
| | Dhakal, Amod | Kehoe, Paula | Ramirez, Tim | |

STAFF REPORT

To: Coastside County Water District Board of Directors
From: David Dickson, General Manager
Agenda: September 8, 2009

Report

Date: September 3, 2009

Subject: Approval of Verizon Wireless Cell Site Agreement

Recommendation:

Approve the attached Verizon Wireless cell site lease agreement.

Background:

The attached agreement with Verizon Wireless for lease of cellular equipment space at the Nunes Water Treatment Plant site provides for the following:

- Verizon will attach an antenna to Half Moon Bay Tank #3, install a monopole on the property east of the water tanks, and construct a small equipment building to the north of the water tanks.
- The initial rent amount will be \$24,720 per year, payable monthly, with an additional \$3,000 due on execution of the agreement.
- Rent is adjusted annually in accordance with the Consumer Price Index.
- Term of the agreement is five years, with automatic extensions for three additional five-year terms.

Staff has been working on this agreement with Verizon for two years through our cell site leasing consultant, Aaron Levinson of Communication Leasing Services, Inc.. Language of the agreement was reviewed and approved by then-District Counsel Tony Condotti in July-August 2008.

On completion of this agreement, the District will have cell site leases with Verizon, Sprint, and Metro PCS.

Fiscal Impact:

Revenue of \$27,720 in the initial year of the agreement. Total revenue of about \$500,000 (2009 dollars) over contract life including extensions.

LAND LEASE AGREEMENT

This Land Lease Agreement (“**Agreement**”), made this _____ day of _____, 2009, between Coastside County Water District with its principal offices located at 766 Main Street, Half Moon Bay, California, hereinafter designated **LESSOR**, and GTE Mobilnet of California Limited Partnership, d/b/a Verizon Wireless, with its principal office located at One Verizon Way, Mail Stop 4AW100, Basking Ridge, New Jersey 07920, hereinafter designated **LESSEE**. LESSOR and LESSEE are at times collectively referred to hereinafter as the “**Parties**” or individually as the “**Party**”.

1. **PREMISES.** LESSOR hereby leases to LESSEE a portion of that certain parcel of property (the entirety of LESSOR’s property is referred to hereinafter as the “**Property**”), located at 200 Lewis Foster Drive, Half Moon Bay, San Mateo County, California, legally described on Exhibit “A,” attached hereto and made a part hereof, and being described as follows: a parcel of ground space measuring eight feet (8’) by eight feet (8’) or sixty four (64) square feet, for LESSEE’s antenna structure, and space on the staff gauge (hereafter, “**Staff Gauge**”) attached to one of LESSOR’s existing water tanks (collectively, the “**Antenna Space**”) and a third parcel of ground space twenty-six feet (26’) in width and forty feet (40’) in length containing one thousand forty square feet (1,040 sq. ft.) for LESSEE’s equipment shelter as described below (the “**Equipment Space**”), together with the non-exclusive right (the “**Rights of Way**”) for ingress and egress, during normal business hours at the Property (8:00 am – 4:00 pm Monday through Friday), with at least twenty-four (24) hours prior notice. In the event of an emergency or for non-routine maintenance or repair activities, LESSEE will use best efforts to provide LESSOR with 24 hour prior notice; if this is not possible, then LESSEE will provide LESSOR as much advanced notice as possible, seven (7) days a week twenty-four (24) hours a day, on foot or motor vehicle, including trucks over or along an eight (8) foot wide right-of-way over the Property to the Antenna and Equipment Space. LESSEE shall have access as described herein for the purposes of installing repairing and maintaining of utility wires, cables, conduits, and pipes under the Rights of Way between the Antenna Space and Equipment Space and to the nearest appropriate utility provider. Said Antenna Space, Equipment Space and Rights of Way (hereinafter collectively referred to as the “**Premises**”) as described herein in Exhibit “B” attached hereto and made a part hereof.

In the event LESSEE requires access during non-business hours, LESSEE agrees to pay LESSOR the hourly fee of \$65.00 to cover the cost of LESSOR employees’ time in providing such non-business hour access. LESSOR will provide LESSEE with an invoice documenting the amount of time spent by LESSOR’s employees in providing access to LESSEE. LESSEE agrees to pay the amount due to LESSOR on such invoice within thirty (30) days after receipt of same. LESSEE shall have access to the Premises in accordance with the reasonable security requirements of LESSOR. LESSEE agrees to keep to a minimum the number of personnel visiting the Premises and the frequency of the visits with respect to routine maintenance and repair activities.

LESSEE shall use the Premises for the purpose of constructing, maintaining, repairing and operating a communications facility and uses incidental thereto. Subject to the terms and conditions hereinafter set forth, and in consideration of the duties, covenants and obligations of LESSEE hereunder, LESSOR hereby Leases to LESSEE, the Premises for the installation,

operation, maintenance, repair, and removal of the above referenced equipment and improvements as well as the following equipment consisting of: (i) up to six (6) antennas (dimensions each: 6'8" h x 11' w) (ii) and an equipment shelter approximately twelve feet (12') by thirty feet (30') and (iii) related cable and hardware (collectively, the "Site Equipment"). all of which will be installed within the Premises and described on the attached Exhibit "B." No additional equipment shall be placed on the Property or Premises other than what is depicted on said Exhibit "B." No Site Equipment is to be attached directly to any of LESSOR's water tanks or placed on top of any water lines on the Property. In the event LESSOR discovers LESSEE has inadvertently placed any of its Site Equipment on top of a water line, LESSEE agrees to move the subject Site Equipment away from the water line at LESSEE's sole cost and expense as soon as possible. In the event LESSEE has to relocate its Site Equipment off of a water line, LESSOR will require enough space to be able to access the water line(s) using a back hoe or similar equipment. LESSEE shall use the Premises only for the purposes described herein for which it has received all necessary governmental approvals. LESSEE agrees that the Site Equipment shall be considered LESSEE's personal property and LESSOR shall not tamper with, remove or otherwise interfere with the Site Equipment except as expressly provided in this Agreement. No other rights are granted herein. LESSOR makes no warranties, implied or otherwise, as to the fitness of the Property or Premises for LESSEE's intended use. LESSEE has inspected the Property and Premises and accepts the same "AS IS" and agrees that LESSOR is under no obligation to perform any work or provide any materials to prepare the Property or the Premises for use by LESSEE.

In the event that public utility access is required for LESSEE to use the Premises for the purposes set forth herein, LESSOR hereby agrees to grant an additional right-of-way either to LESSEE or to the public utility at no cost to LESSEE provided, however, that the location and configuration of such public utility access shall be subject to LESSOR's review and approval, in its sole discretion.

2. SURVEY. LESSOR hereby grants to LESSEE the right to survey the Property and the Premises, and said survey shall then become Exhibit "C" which shall be attached hereto and made a part hereof, and shall control in the event of boundary and access discrepancies between it and Exhibit "B." Cost for such work shall be borne entirely by LESSEE.

3. TERM. This Agreement shall be effective as of the date of execution by both Parties (the "Effective Date"), provided, however, the initial term shall be for five (5) years and shall commence on the Commencement Date (as hereinafter defined) at which time rental payments shall commence and be due at a total annual rental amount of Twenty-Four Thousand Seven Hundred Twenty Dollars (\$24,720.00, "Annual Rent") to be paid in equal monthly installments on the first day of the month, in advance, to the Coastside County Water District or to such other person, firm or place as LESSOR may, from time to time, designate in writing at least thirty (30) days in advance of any rental payment date by notice given in accordance with Paragraph 19 below. Upon agreement of the Parties, LESSEE may pay rent by electronic funds transfer and in such event, LESSOR agrees to provide to LESSEE bank routing information for such purpose upon request of LESSEE. The "Commencement Date" shall be the earlier to occur of: (1) October 1, 2009, or (2) the date LESSEE commences installation of the equipment on the Premises. In the event the date LESSEE commences installation of the equipment on the

Premises falls between the 1st and 15th of the month, the initial term shall commence on the 1st of that month and if the date installation commences falls between the 16th and 31st of the month, then the term shall commence on the 1st day of the following month.

LESSOR and LESSEE agree that they shall acknowledge in writing the Commencement Date. LESSOR and LESSEE acknowledge and agree that initial rental payment(s) shall not actually be sent by LESSEE until thirty (30) days after a written acknowledgement confirming the Commencement Date. By way of illustration of the preceding sentence, if the Commencement Date is January 1 and the written acknowledgement confirming the Commencement Date is dated January 14, LESSEE shall send to LESSOR the rental payments for January 1 and February 1 by February 13.

In consideration for delaying the Commencement Date, LESSEE further agrees to pay LESSOR the sum of Three Thousand Dollars (\$3,000.00) as additional rent, which shall be due and payable within thirty (30) days after full execution of this Agreement and which shall be non-refundable.

4. EXTENSIONS. This Agreement shall automatically be extended for three (3) additional five (5) year terms unless LESSEE terminates it at the end of the then current term by giving LESSOR written notice of the intent to terminate at least six (6) months prior to the end of the then current term. The initial term and all extensions shall be collectively referred to herein as the "Term."

5. EXTENSION RENTALS. The Annual Rent for the initial and three (3) extension terms described in Paragraph 4 above shall be adjusted annually on October 1 of each calendar year (the "Adjustment Date") commencing July 1, 2010, in accordance with changes in the Consumer Price Index for All Urban Consumers for the San Francisco, Oakland, San Jose area (1982-84=100) ("CPI"). The adjusted rent shall be equal to the Rent multiplied by a fraction the numerator of which shall be the CPI last published immediately preceding the Adjustment Date and the denominator of which shall be the CPI published for the month of January 2010. A Lease Year shall mean a twelve month period commencing on the Commencement Date and each anniversary thereof. In no event shall the adjusted rent be less than the rent payable during the preceding lease year.

6. Intentionally Deleted.

7. USE; GOVERNMENTAL APPROVALS. All improvements, equipment, antennas and conduits shall be at LESSEE's expense and their installation shall be at the discretion and option of LESSEE. LESSEE shall have the right to replace, repair, add or otherwise modify its utilities, Site Equipment (not including antennas, except as expressly permitted hereunder), and/or conduits or any portion thereof and the frequencies over which the equipment operates, whether the Site Equipment, conduits or frequencies are specified or not on any exhibit attached hereto, during the Term provided that all such activity and all Site Equipment affected occur within the Premises. LESSEE may repair, modify or replace its antennas so long as the replacement antennas are similar in size and shape (no larger than one foot in any dimension). It is understood and agreed that LESSEE's ability to use the Premises is contingent upon its obtaining after the execution date of this Agreement all of the certificates, permits and other approvals

(collectively the “**Governmental Approvals**”) that may be required by any Federal, State or Local authorities as well as satisfactory soil boring tests which will permit LESSEE use of the Premises as set forth above. LESSOR shall cooperate with LESSEE in its effort to obtain such approvals and shall take no action which would adversely affect the status of the Premises with respect to the proposed use thereof by LESSEE. In the event that (i) any of such applications for such Governmental Approvals should be finally rejected; (ii) any Governmental Approval issued to LESSEE is canceled, expires, lapses, or is otherwise withdrawn or terminated by governmental authority; (iii) LESSEE determines that such Governmental Approvals may not be obtained in a timely manner; (iv) LESSEE determines that any soil boring tests are unsatisfactory; (v) LESSEE determines that the Premises is no longer technically compatible for its use, or (vi) LESSEE, in its sole discretion, determines that it will be unable to use the Premises for its intended purposes, LESSEE shall have the right to terminate this Agreement. Notice of LESSEE’s exercise of its right to terminate shall be given to LESSOR in writing by certified mail, return receipt requested, and shall be effective upon the mailing of such notice by LESSEE, or upon such later date as designated by LESSEE. All rentals paid to said termination date shall be retained by LESSOR. Upon such termination, this Agreement shall be of no further force or effect except to the extent of the representations, warranties and indemnities made by each Party to the other hereunder. Otherwise, LESSEE shall have no further obligations for the payment of rent to LESSOR.

8. CONSTRUCTION.

(a) Prior to the commencement of construction, LESSEE shall (at its sole cost and expense) submit to LESSOR working drawings, plans, and specifications detailing the location, size, and weight of LESSEE’s Site Equipment specifically describing the proposed construction and work. Such plans are hereby attached to this Agreement as Exhibit “B” and are hereby approved by LESSOR. Any changes to the approved plans (Exhibit “B”) by LESSEE must be submitted to LESSOR for its approval, described as follows: LESSOR shall have the right not to approve such plan changes if they are not aesthetically satisfactory to LESSOR in both fitness and appearance. Approval or disapproval and required changes shall be delivered to LESSEE within twenty (20) working days after the receipt of such plans from LESSEE. In no event shall LESSOR’s approval of any plans be deemed a representation that they comply with applicable laws, ordinances, or rules and regulations or will not cause interference with other communication systems, such responsibility being solely LESSEE’s. LESSEE agrees that all construction and installation work shall be performed at LESSEE’s sole cost and expense, in a neat, responsible, and workmanlike manner using generally accepted construction standards consistent with such reasonable requirements as shall be imposed by LESSOR in writing. LESSEE hereby agrees that LESSOR will be able to place one antenna in the Antenna Space (“**LESSOR’s Antenna**”) in a mutually acceptable location for LESSOR’s use, provided that LESSOR’s antenna shall not interfere with LESSEE’s use of the Antenna Space. LESSOR shall notify LESSEE prior to installing LESSOR’s antenna and prior to accessing same, and LESSOR shall comply with LESSEE’s requirements in connection with installing and accessing LESSOR’s Antenna.

(b) LESSEE shall repair any damage to the Land or Property (including all existing improvements) that is caused by LESSEE, any of its agents, representatives, employees,

contractors, or subcontractors, as a result of the installation, construction, operation, maintenance, and repair of LESSEE's Site Equipment, at its sole cost, as soon as possible, but in no event more than ten (10) days from the date LESSEE is first notified of such damage. All repairs shall be performed to the reasonable satisfaction of LESSOR. If LESSEE fails to repair any such damage with such ten (10) day period, LESSOR may, in its sole discretion, repair such damage and LESSEE shall reimburse LESSOR for all costs and expenses incurred in such repair within thirty (30) days after receipt of LESSOR's written demand which will include supporting documentation.

(c) LESSEE shall not during construction or otherwise, in LESSOR's sole and reasonable judgment, impede access to or in any way obstruct, interfere with or hinder the use of the access to the Property. If any other foregoing occurs, LESSEE shall take corrective action as soon as possible after notice to LESSEE. LESSEE will be entering through a security gate to access the Premises. LESSEE shall abide by all requirements and rules of LESSOR in accessing the Premises. LESSEE will perform all installation construction work in such a way that minimizes interference with LESSOR'S operations.

(d) LESSEE understands and agrees that the aesthetic characteristics of the Property are of significant importance to LESSOR and agrees to ensure that the installed appearance of the Site Equipment shall match the colors, architectural, and other aesthetic features of the Property as approved by LESSOR.

(e) Subject to Paragraph 7 above, LESSEE (i) shall obtain, at its sole cost and expense, prior to start of construction, all necessary federal, state, and municipal permits, licenses, and approvals and (ii) the Site Equipment, and placement of such Site Equipment shall comply with all applicable safety standards and lighting requirements, as modified from time to time, of any governing body with jurisdiction over LESSEE's operations at the Property. LESSEE shall prominently label any and all Site Equipment with appropriate safety warnings required by applicable Federal, State and local laws.

(f) LESSEE understands that LESSOR does not anticipate having to remove or otherwise dismantle the water tank and Staff Gauge that will be used to house a portion of LESSEE's antennas. However, if the subject tank and staff gauge does need to be removed or dismantled due to circumstances not anticipated and/or under the control of LESSOR, then LESSEE agrees to remove its antennas from such facility at LESSEE's sole cost and expense as soon as is practical after being given written notice to do so from LESSOR. LESSOR will try to give LESSEE as much prior notice as possible once LESSOR is informed or otherwise determines the subject tank/Staff Gauge must be removed or dismantled. In the event of tank/Staff Gauge removal, LESSOR agrees that LESSEE will be allowed to relocate its antennas to a location agreed upon and acceptable to both LESSEE and LESSOR on LESSOR's Property. If LESSEE cannot find suitable, alternative space for the subject antennas on another area of the Property reasonably acceptable to LESSOR and LESSEE; and the subject antennas cannot be relocated to an alternate, nearby property owned by LESSOR that is reasonably acceptable to both Parties, then LESSEE may terminate this Agreement with thirty (30) days prior written notice to LESSOR.

9. INDEMNIFICATION.

(a) LESSEE shall indemnify, defend and protect, and hold LESSOR, and its directors, officers, employees, representatives, and agents (collectively, "LESSOR's Agents") harmless from and against any and all liability, damage, loss, cost, expense, claim, alleged claim or cause of action (including reasonable attorney's fees, costs, and expenses of defending against such claims) of any nature arising out of or in connection with (i) the use, operation, maintenance, repair, or replacement of the Site Equipment and materials on the Premises by LESSEE or LESSEE's agents, assigns, employees, contractors, sub-contractors (collectively, "LESSEE's Agents"), or (ii) any work performed by or required to be performed by LESSEE or LESSEE's Agents under this Agreement, (iii) the acts or omissions of LESSEE or LESSEE's Agents, or (iv) LESSEE's failure to comply with the terms of this Agreement.

(b) Except to the extent caused by the negligence or willful misconduct of LESSOR or LESSOR's Agents, LESSEE agrees that LESSOR and LESSOR's Agents shall have no liability to LESSEE or anyone claiming under or through LESSEE for any injury, inconvenience, loss, cost, expense, or damage caused by: (i) the failure of equipment, or the malfunctioning or interruption of any service, utility, facility, or installation supplied by LESSOR or LESSOR's Agents to LESSEE and (ii) for the making of any alteration of or improvement or repair to the Premises, whether required by any governmental agency, or due to casualty, or for any other reason.

(c) LESSOR and LESSOR's agents shall not be liable or responsible to LESSEE, and LESSEE hereby waives any claim for, any loss or damage to any property or person occasioned by theft, fire, act of God, public enemy, injunction, riot, strike, insurrection, war, court order, requisition or other order of governmental body or authority, or for any damage or inconvenience which may arise through maintenance, repair or alteration of any part of the Property, or failure to make any such repairs. LESSEE also agrees that LESSOR shall not be liable for damage to LESSEE's Site Equipment or for theft, misappropriation, or loss thereof, unless due to LESSOR's gross negligence or willful misconduct.

(d) The duties described in this Paragraph 9 shall survive termination of this Agreement.

10. INSURANCE. LESSEE, at LESSEE's sole cost and expense, shall procure and maintain a policy of comprehensive commercial general liability insurance issued by a company rated at least A- by AM Best, and licensed to do business within the state where the Property is located insuring LESSEE (and LESSOR as an additional insured) with a combined single limit of at least Three Million Dollars (\$3,000,000.00) per occurrence for injury, death, and property damage. LESSEE shall maintain all risk property insurance on its Site Equipment in sufficient amounts to cover any loss thereof. LESSEE's insurance shall be primary insurance as relates to LESSEE's negligence, and any other insurance maintained by LESSOR being excess and non-contributing with the insurance of LESSEE required hereunder and providing coverage for the contractual liability of LESSEE to indemnify LESSOR pursuant to Paragraph 9 subject to standard policy provisions, provided that such provisions are otherwise consistent with the terms of this Agreement. LESSEE shall name LESSOR as an additional insured on LESSEE's liability

policy. LESSEE shall provide to LESSOR a certificate of insurance evidencing the coverage required by this Paragraph prior to commencement of construction. LESSEE shall also maintain in force all required worker's compensation and other similar insurance pursuant to all applicable state and local statutes.

11. INTERFERENCE. LESSEE agrees to install equipment of the type and frequency which will not cause harmful interference which is measurable in accordance with then existing industry standards to any equipment of LESSOR or other lessees of the Property which existed on the Property prior to the Effective Date. In the event any after-installed LESSEE's equipment causes such interference, and after LESSOR has notified LESSEE in writing of such interference, LESSEE will take all steps necessary to correct and eliminate the interference, including but not limited to, powering down such equipment and later powering up such equipment for intermittent testing. LESSOR may terminate this Agreement or require that the Site Equipment be relocated to another portion of the Property if LESSEE fails to remedy the interference issue or fails to remove the equipment causing such interference within thirty (30) days after LESSEE's receipt of LESSOR's notice. LESSOR agrees that LESSOR and/or any other tenants of the Property who currently have or in the future take possession of the Property will be permitted to install only such equipment that is of the type and frequency which will not cause harmful interference which is measurable in accordance with then existing industry standards to the then existing equipment of LESSEE.

12. REMOVAL AT END OF TERM. LESSEE shall, upon expiration of the Term remove its Site Equipment in its entirety including but not limited to any building(s), foundation(s), antenna structure(s), equipment, conduits, fixtures and all personal property and restore the Premises and areas immediately adjacent the Premises if affected to its original condition which shall include holes to be filled in and the land being graded to how it existed previously, reasonable wear and tear excepted. Lessee will remove antennas and antenna mounts from the Staff Gauge of the water tank. Lessee agrees to repaint the Staff Gauge if the existing paint was damaged by LESSEE's attachment of antennas. LESSOR agrees and acknowledges that all of the equipment, conduits, fixtures and personal property of LESSEE shall remain the personal property of LESSEE and LESSEE shall have the right to remove the same at any time during the Term, whether or not said items are considered fixtures and attachments to real property under applicable laws.

13. RIGHTS UPON SALE. Should LESSOR, at any time during the Term decide (i) to sell or transfer all or any part of the Property to a purchaser other than LESSEE, or (ii) to grant to a third party by easement or other legal instrument an interest in and to that portion of the Property occupied by LESSEE, or a larger portion thereof, for the purpose of operating and maintaining communications facilities or the management thereof, such sale or grant of an easement or interest therein shall be under and subject to this Agreement and any such purchaser or transferee shall recognize LESSEE's rights hereunder under the terms of this Agreement.

14. QUIET ENJOYMENT. LESSOR covenants that LESSEE, on paying the rent and performing the covenants herein, shall peaceably and quietly have, hold and enjoy the Premises.

15. TITLE. LESSOR represents and warrants to LESSEE as of the execution date of this Agreement, and covenants during the Term that LESSOR is seized of good and sufficient title and interest to the Property and has full authority to enter into and execute this Agreement. LESSOR further covenants during the Term that there are no liens, judgments or impediments of title on the Property, or affecting LESSOR's title to the same and that there are no covenants, easements or restrictions which prevent or adversely affect the use or occupancy of the Premises by LESSEE as set forth above.

16. INTEGRATION. It is agreed and understood that this Agreement contains all agreements, promises and understandings between LESSOR and LESSEE and that no verbal or oral agreements, promises or understandings shall be binding upon either LESSOR or LESSEE in any dispute, controversy or proceeding at law, and any addition, variation or modification to this Agreement shall be void and ineffective unless made in writing signed by the Parties or in a written acknowledgment in the case provided in Paragraph 3. In the event any provision of this Agreement is found to be invalid or unenforceable, such finding shall not affect the validity and enforceability of the remaining provisions of this Agreement. The failure of either Party to insist upon strict performance of any of the terms or conditions of this Agreement or to exercise any of its rights under this Agreement shall not waive such rights and such Party shall have the right to enforce such rights at any time and take such action as may be lawful and authorized under this Agreement, in law or in equity.

17. GOVERNING LAW. This Agreement and the performance thereof shall be governed, interpreted, construed and regulated by the laws of the State in which the Property is located.

18. ASSIGNMENT. This Agreement may be sold, assigned or transferred by LESSEE without any approval or consent of LESSOR to LESSEE's principal affiliates or subsidiaries of its principal, or to any entity which acquires all or substantially all of LESSEE's assets in the market defined by the Federal Communications Commission in which the Property is located by reason of a merger, acquisition or other business reorganization. As to other parties, this Agreement may not be sold, assigned or transferred without the written consent of LESSOR, which such consent will not be unreasonably withheld, delayed or conditioned. No change of stock ownership, partnership interest or control of LESSEE or transfer upon partnership or corporate dissolution of LESSEE shall constitute an assignment hereunder. No such sale, assignment, or transfer shall serve to release LESSEE from its duties and obligations hereunder.

19. NOTICES. All notices hereunder must be in writing and shall be deemed validly given if sent by certified mail, return receipt requested or by commercial courier, provided the courier's regular business is delivery service and provided further that it guarantees delivery to the addressee by the end of the next business day following the courier's receipt from the sender, addressed as follows (or any other address that the Party to be notified may have designated to the sender by like notice):

LESSOR: Coastside County Water District
766 Main Street
Half Moon Bay, CA 94019

LESSEE: GTE Mobilnet of California Limited Partnership
d/b/a Verizon Wireless
180 Washington Valley Road
Bedminster, New Jersey 07921
Attention: Network Real Estate

Notice shall be effective upon actual receipt or refusal as shown on the receipt obtained pursuant to the foregoing.

20. SUCCESSORS. This Agreement shall extend to and bind the heirs, personal representative, successors and assigns of the Parties hereto.

21. DEFAULT.

LESSEE's failure to pay any amount specified hereunder when due shall be an event of default if such amount is not paid within ten (10) days after LESSEE's receipt of LESSOR's notice of same. LESSEE filing a petition for bankruptcy, ceasing to conduct its business in the normal course, or LESSEE's inability to pay its debts when they come due, shall also constitute an event of default. Additionally, LESSEE's failure to perform its other obligations (other than payments due LESSOR) under this Agreement for thirty (30) days after written notice shall constitute an event of default provided however, that LESSEE shall have such extended period as may be required beyond the thirty (30) days if the nature of the cure is such that it reasonably requires more than thirty (30) days and LESSEE commences the cure within the thirty (30) day period and thereafter continuously and diligently pursues the cure to completion. Upon the occurrence of an event of default, LESSOR shall have the option to pursue either or both of the following remedies:

(a) If the event of default pertains to work to be performed by LESSEE, or LESSEE causes such work to be performed, without waiving such an event of default and without liability to LESSEE for any loss or damage which may result to LESSEE's Site Equipment or business by reason of such work, LESSOR may, after notice and the expiration of the applicable cure period, perform or complete such work and LESSEE shall, within thirty (30) days after receipt of LESSOR's written demand, pay to LESSOR the reasonable cost of such work plus a five percent (5%) administrative fee.

(b) LESSOR may terminate this Agreement with ten (10) days prior written notice.

The pursuit of the forgoing remedies by LESSOR shall not preclude pursuit of any other remedies provided by law or equity, nor shall pursuit of any remedies herein provided constitute a forfeiture or waiver of any fees due LESSOR. Failure by LESSOR to enforce one or more of the remedies herein provided upon an event of default or acceptance of any installment of the Annual Rent during an event of default shall not be deemed or construed to constitute a waiver of such default.

22. ENVIRONMENTAL. LESSEE will not generate, store or dispose of any Hazardous Materials on or about the Premises or Property in violation of any Hazardous Waste

Laws. LESSEE shall be responsible for any Hazardous Materials released to the extent any release results from LESSEE's activities at the Property. Notwithstanding the foregoing, LESSEE shall be responsible for abating any Hazardous Materials that will be disturbed by LESSEE's permitted use. LESSEE shall indemnify, defend and hold harmless LESSOR with respect to any losses, claims, damages, penalties and liabilities (including reasonable attorneys and consultants' fees and costs) arising from any breach of this provision. LESSOR agrees that neither LESSOR nor to LESSOR's knowledge, any third party has used, generated, stored, or disposed of any Hazardous Materials on, under or about the Property in violation of any Hazardous Waste laws. "Hazardous Materials" shall mean any substance deemed to be hazardous, toxic or dangerous in any "Hazardous Waste Laws", and shall include petroleum. "Hazardous Waste Laws" shall mean all applicable federal, state, or local laws or regulations governing Hazardous Materials.

23. CASUALTY. In the event of damage by fire or other casualty to the Premises that cannot reasonably be expected to be repaired within forty-five (45) days following same or, if the Property is damaged by fire or other casualty so that such damage may reasonably be expected to disrupt LESSEE's operations at the Premises for more than forty-five (45) days, then LESSEE may, at any time following such fire or other casualty, provided LESSOR has not completed the restoration required to permit LESSEE to resume its operation at the Premises, terminate this Agreement upon fifteen (15) days prior written notice to LESSOR. Any such notice of termination shall cause this Agreement to expire with the same force and effect as though the date set forth in such notice were the date originally set as the expiration date of this Agreement and the Parties shall make an appropriate adjustment, as of such termination date, with respect to payments due to the other under this Agreement. Notwithstanding the foregoing, the rent shall abate during the period of repair following such fire or other casualty so long as LESSEE is unable to use the Premises as contemplated in this Agreement.

24. CONDEMNATION. If all or any portion of the Premises shall be taken or condemned for any public purpose to such an extent as to make LESSEE unable to utilize its Site Equipment, this Agreement shall, at the option of either Party, forthwith cease and terminate. All proceeds from any taking or condemnation of the Premises shall belong to and be paid to LESSOR. However, LESSEE shall not be prevented from seeking a separate award for relocation expenses and loss of business goodwill from the party or parties taking the Premises. LESSEE shall have all rights to its Site Equipment, which shall not be included in any taking or condemnation award to LESSOR.

25. SUBMISSION OF AGREEMENT/PARTIAL INVALIDITY/AUTHORITY. The submission of this Agreement for examination does not constitute an offer to lease the Premises and this Agreement becomes effective only upon the full execution of this Agreement by the Parties. If any provision herein is invalid, it shall be considered deleted from this Agreement and shall not invalidate the remaining provisions of this Agreement. Each of the Parties hereto warrants to the other that the person or persons executing this Agreement on behalf of such Party has the full right, power and authority to enter into and execute this Agreement on such Party's behalf and that no consent from any other person or entity is necessary as a condition precedent to the legal effect of this Agreement.

26. APPLICABLE LAWS. LESSEE shall, in respect to the condition of the Premises and at LESSEE's sole cost and expense, comply with (a) all applicable laws relating solely to LESSEE's specific and unique nature of use of the Premises (other than general office use); and (b) all building codes requiring modifications to the Premises due to the improvements being made by LESSEE in the Premises.

27. SURVIVAL. The provisions of this Agreement relating to indemnification from one Party to the other Party shall survive any termination or expiration of this Agreement. Additionally, any provisions of this Agreement which require performance subsequent to the termination or expiration of this Agreement shall also survive such termination or expiration.

28. CAPTIONS. The captions contained in this Agreement are inserted for convenience only and are not intended to be part of this Agreement. They shall not affect or be utilized in the construction or interpretation of this Agreement.

IN WITNESS WHEREOF, the Parties hereto have set their hands and affixed their respective seals the day and year first above written.

LESSOR:

Coastside County Water District

By: _____

Name: _____


Title: _____

Date: _____

LESSEE:

GTE Mobilnet of California Limited Partnership,
dba Verizon Wireless

By: Cellco Partnership, its General Partner

By:  _____
Name: Walter L. Jones, Jr.
Title: Area Vice President Network
Date: 8/10/09

SITE NAME: Half Moon Bay East
SITE NUMBER: 123724
ATTY/DATE: RRY/2.09

Exhibit "A"

(Legal Description of the Property)

Real property in the City of Half Moon Bay, County of San Mateo, State of California, described as follows:

PARCEL ONE:

ALL THAT REAL PROPERTY SITUATE IN THE CITY OF HALF MOON BAY, COUNTY OF SAN MATEO, STATE OF CALIFORNIA AND BEING PORTIONS OF THE LAND OF ADVANCED DEVELOPERS, INC. AS DESCRIBED IN 7835 O.R. 290 AND THE LANDS OF COASTSIDE COUNTY WATER DISTRICT AS DESCRIBED IN 2651 O.R. 64, 5819 O.R. 247 AND PARCELS 1 AND 2 IN O.R. 82091446, RECORDS OF SAN MATEO COUNTY AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWESTERLY CORNER OF THE HILL LAND TRACT AS SHOWN ON THAT MAP RECORDED IN VOLUME 1 OF MAPS AT PAGE 64, SAN MATEO COUNTY RECORDS, AND AS SAID CORNER IS SHOWN ON THAT CERTAIN RECORD OF SURVEY, RECORDED IN VOLUME 13 OF LICENSED LAND SURVEYORS MAPS AT PAGE 10, 11, & 12, AND AS AMENDED FEBRUARY 21, 1991 IN VOLUME 13 OF LICENSED LAND SURVEYORS MAPS AT PAGES 54, 55 AND 56, RECORDS OF SAN MATEO COUNTY, SAID CORNER BEING MARKED BY A 3/4" IRON PIPE TAGGED L.S. 3544; THENCE FROM SAID POINT OF COMMENCEMENT ALONG THE NORTHEASTERLY BOUNDARY OF THE LANDS OF PRATT, AND THE LANDS OF ADVANCE DEVELOPERS, INC., AS SHOWN ON SAID RECORD OF SURVEY, SOUTH 21° 56' 57" EAST, 758.92 FEET TO A 3/4" IRON PIPE TAGGED L.S. 3544 AND THE TRUE POINT OF BEGINNING FOR THIS DESCRIPTION; THENCE FROM SAID TRUE POINT OF BEGINNING AND LEAVING SAID NORTHEASTERLY BOUNDARY SOUTH 37° 58' 15" WEST, 93.67 FEET TO A 3/4" IRON PIPE TAGGED R.C.E. 21411; THENCE SOUTH 65° 42' 49" WEST, 250.31 FEET TO A 3/4" IRON PIPE; THENCE SOUTH 24° 15' 04" EAST, 300.92 FEET TO A 3/4" IRON PIPE; THENCE NORTH 65° 29' 55" EAST, 319.38 FEET TO A 3/4" IRON PIPE TAGGED L.S. 3544 AND TO THE NORTHEASTERLY BOUNDARY OF THE LANDS OF ADVANCE DEVELOPERS, INC., THENCE ALONG SAID BOUNDARY NORTH 21° 56' 57" WEST, 343.61 FEET TO THE TRUE POINT OF BEGINNING.

PARCEL TWO:

BEGINNING AT THE MOST EASTERLY CORNER OF THE LANDS DESCRIBED IN THE DEED FROM JOHN LLOYD CARTER, ET AL., TO ADVANCE DEVELOPERS, INC., A CALIFORNIA CORPORATION, DATED MARCH 30, 1979 AND RECORDED APRIL 4, 1979 IN BOOK 7835 OFFICIAL RECORDS, PAGE 290 (91158-AN); THENCE FROM SAID POINT OF BEGINNING ALONG THE NORTHEASTERLY BOUNDARY OF SAID LANDS NORTH 22° 57' 05" WEST 766.62 FEET TO THE TRUE POINT OF BEGINNING; THENCE FROM SAID TRUE POINT OF BEGINNING CONTINUING ALONG SAID NORTHEASTERLY LINE NORTH 22° 57' 05" WEST 349.38 FEET; THENCE LEAVING SAID NORTHEASTERLY LINE NORTH 37° 53' 03" EAST 18.00 FEET TO AN EXISTING FENCE LINE; THENCE SOUTHEASTERLY ALONG SAID FENCE LINE SOUTH 23° 14' 19" EAST 357.68 FEET; THENCE LEAVING LINE SOUTH 65° 28' 39" WEST 17.52 FEET TO THE TRUE POINT OF BEGINNING.

SITE NAME: Half Moon Bay East
SITE NUMBER: 123724
ATTY/DATE: RRY/2.09

PARCEL THREE:

TOGETHER WITH A PERPETUAL AND EXCLUSIVE EASEMENT FOR THE CONSTRUCTION, MAINTENANCE AND USE OF A PIPE LINE FOR THE TRANSMISSION AND DISTRIBUTION OF WATER AND ALL CONNECTED OR ASSOCIATED PURPOSES, TOGETHER WITH THE RIGHT OF INGRESS OR EGRESS TO AND OVER SAID EASEMENT AND OVER EXISTING ROADWAYS UPON THE LANDS OF THE GRANTORS, COVERING ALL THAT CERTAIN REAL PROPERTY SITUATED IN THE COUNTY OF SAN MATEO, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

A STRIP OF LAND 10 FEET WIDE FOR WATER MAINS THE CENTER LINE OF WHICH IS DESCRIBED AS BEGINNING AT A POINT IN THE NORTHEASTERLY LINE OF THE LANDS OF

GRANTORS, DISTANT THEREON SOUTH 24° 00' EAST 1425.50 FEET FROM ITS MOST NORTHERLY CORNER, SAID POINT OF BEGINNING BEING DISTANT 15.00 FEET NORTHWESTERLY MEASURED AT RIGHT ANGLES FROM THE CENTER LINE OF AN EXISTING POWER LINE; THENCE SOUTH 61° 57' WEST PARALLEL TO SAID POWER LINE TO A POINT IN THE SOUTHWESTERLY LINE OF LANDS OF GRANTOR, ALSO A SIMILAR EASEMENT THE CENTER LINE OF WHICH IS DESCRIBED AS FOLLOWS: BEGINNING AT A POINT IN THE SOUTHEASTERLY LINE OF THE ABOVE MENTIONED 1.375 ACRE TRACT, DISTANT THEREON SOUTH 66° 00' WEST 146.63 FEET FROM ITS MOST EASTERLY CORNER; THENCE SOUTH 8° 35' EAST 372.52 FEET, MORE OR LESS, TO A POINT IN THE CENTER LINE OF THE FIRST ABOVE MENTIONED EASEMENT.

PARCEL FOUR:

AN EASEMENT FOR THE PURPOSES OF CONSTRUCTING, REPAIRING, MAINTAINING, REPLACING, RENEWING AND USING A PIPELINE AND APPURTENANT FACILITIES FOR THE TRANSMISSION AND DISTRIBUTION OF WATER, AND FOR ALL CONNECTED AND ASSOCIATED PURPOSES, TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS OVER, AS DESCRIBED ON THE GRANT OF EASEMENT, RECORDED APRIL 2, 1996, INSTRUMENT NO. 96-039256, SAN MATEO COUNTY RECORDS.

APN: 056-310-270 and 056-310-400

SITE NAME: Half Moon Bay East
SITE NUMBER: 123724
ATTY/DATE: RRY/2.09

Exhibit "B"

(Sketch of Premises within Property)

L.D. STROBEL Co. Inc.
 DESIGN / CONSTRUCTION

1022 SHARY CIRCLE CONCORD SUITE 9, CA. 94518
 PHONE: 925-666-3241 FAX: 925-666-3350



REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|----------|---------------|
| 1 | 8/10/07 | 90% ZD |
| 2 | 9/13/07 | 90% ZD REV A |
| 3 | 10/12/07 | 100% ZD |
| 4 | 10/31/07 | 100% ZD REV A |
| 5 | 12/11/07 | 100% ZD REV B |
| 6 | 3/21/08 | 100% ZD REV C |
| 7 | 4/02/08 | 90% CD |
| 8 | 5/22/08 | 100% CD |
| 9 | 8/01/08 | 100% CD REV 1 |

SITE ADDRESS:
 200 LEWIS FOSTER DRIVE
 HALF MOON BAY, CA 94019
 SAN MATEO COUNTY

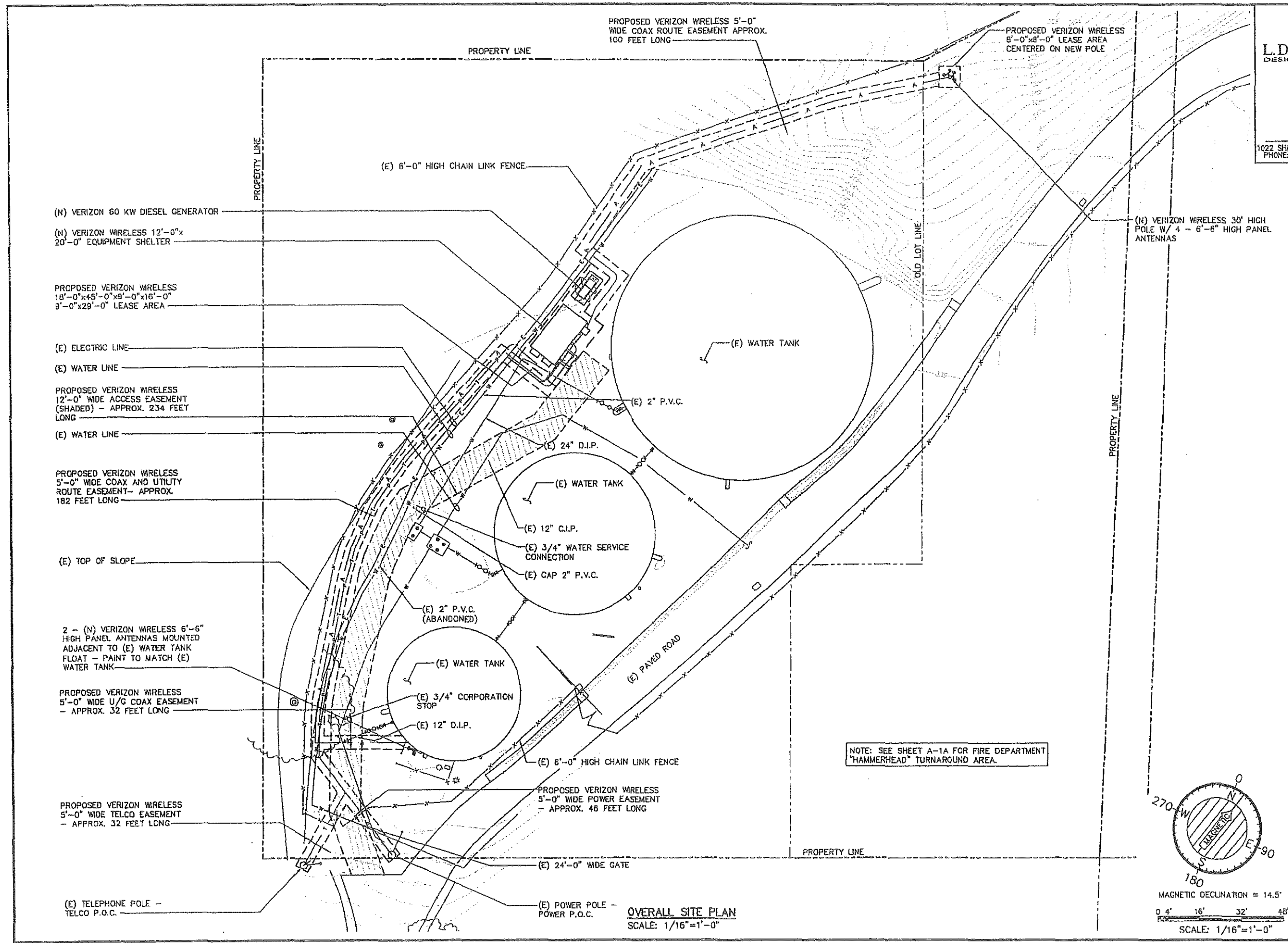
PROPOSED EQUIPMENT INSTALLATION
 HALF MOON BAY EAST
 # 123724

verizonwireless

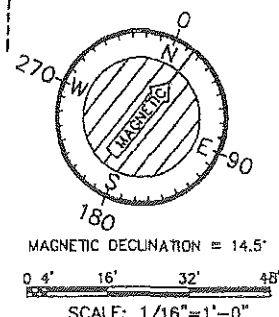
VERIZON WIRELESS
 2785 MITCHELL DR. SUITE 9
 WALNUT CREEK, CA 94598

DRAWN: TDH | DATE: 7/29/08
 FILE: 3591-A1
 SHEET NO.

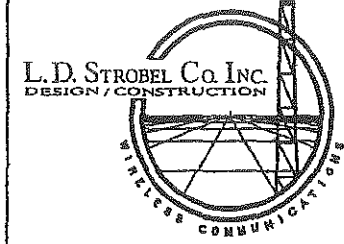
A-1



NOTE: SEE SHEET A-1A FOR FIRE DEPARTMENT "HAMMERHEAD" TURNAROUND AREA.



OVERALL SITE PLAN
 SCALE: 1/16"=1'-0"



1022 SHARY CIRCLE CONCORD SUITE 9, CA. 94518
 PHONE: 925-686-3241 FAX: 925-686-3350



REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|----------|---------------|
| 1 | 8/10/07 | 90% ZD |
| 2 | 9/13/07 | 90% ZD REV A |
| 3 | 10/12/07 | 100% ZD |
| 4 | 10/31/07 | 100% ZD REV A |
| 5 | 12/11/07 | 100% ZD REV B |
| 6 | 3/21/08 | 100% ZD REV C |
| 7 | 4/02/08 | 90% CD |
| 8 | 5/22/08 | 100% CD |
| 9 | 8/01/08 | 100% CD REV 1 |

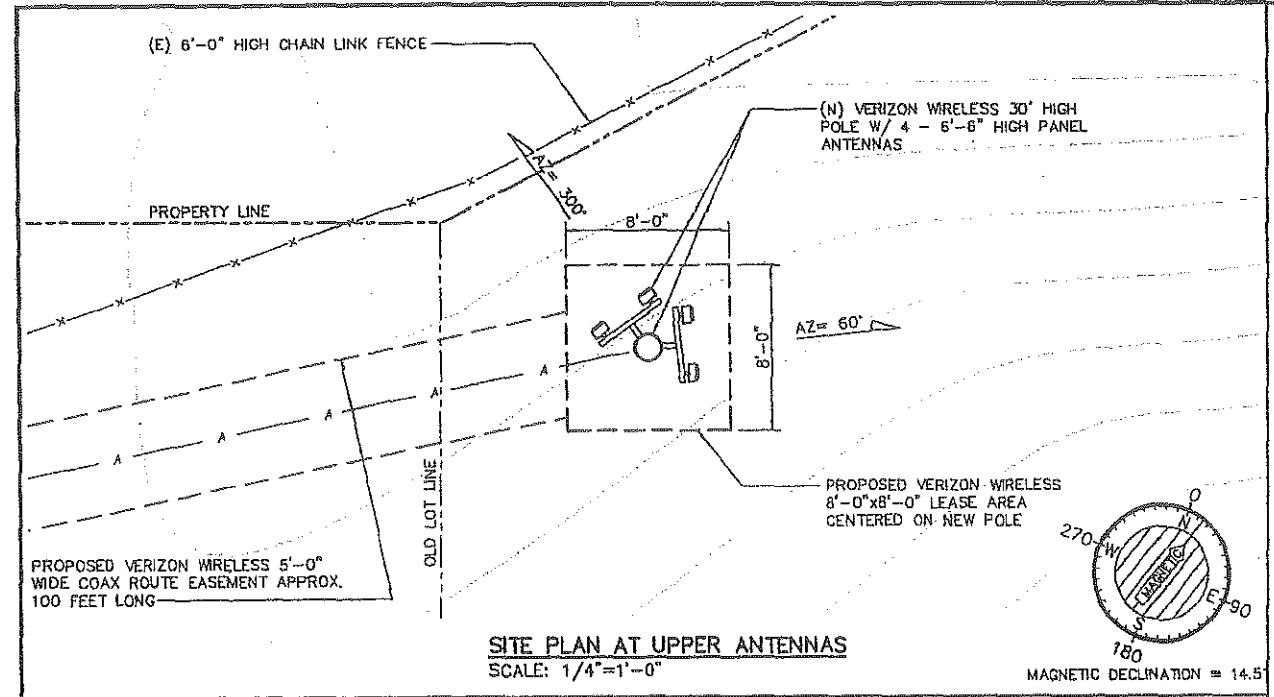
SITE ADDRESS:
 200 LEWIS FOSTER DRIVE
 HALF MOON BAY, CA 94019
 SAN MATEO COUNTY

PROPOSED EQUIPMENT INSTALLATION
 HALF MOON BAY EAST
 # 123724

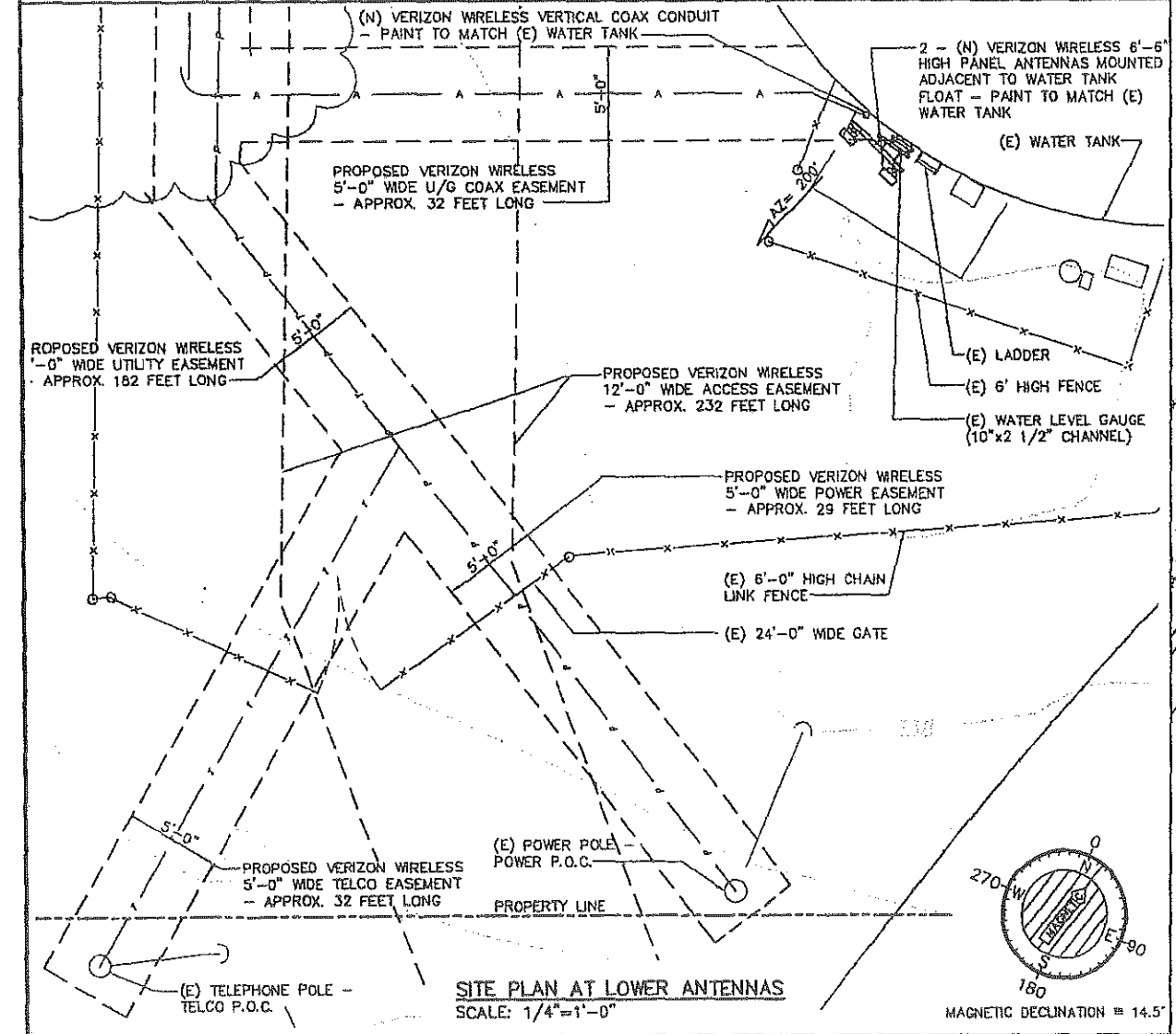
verizon
 wireless

DRAWN: TDH DATE: 7/29/08
 FILE: 3591-A2
 SHEET NO.

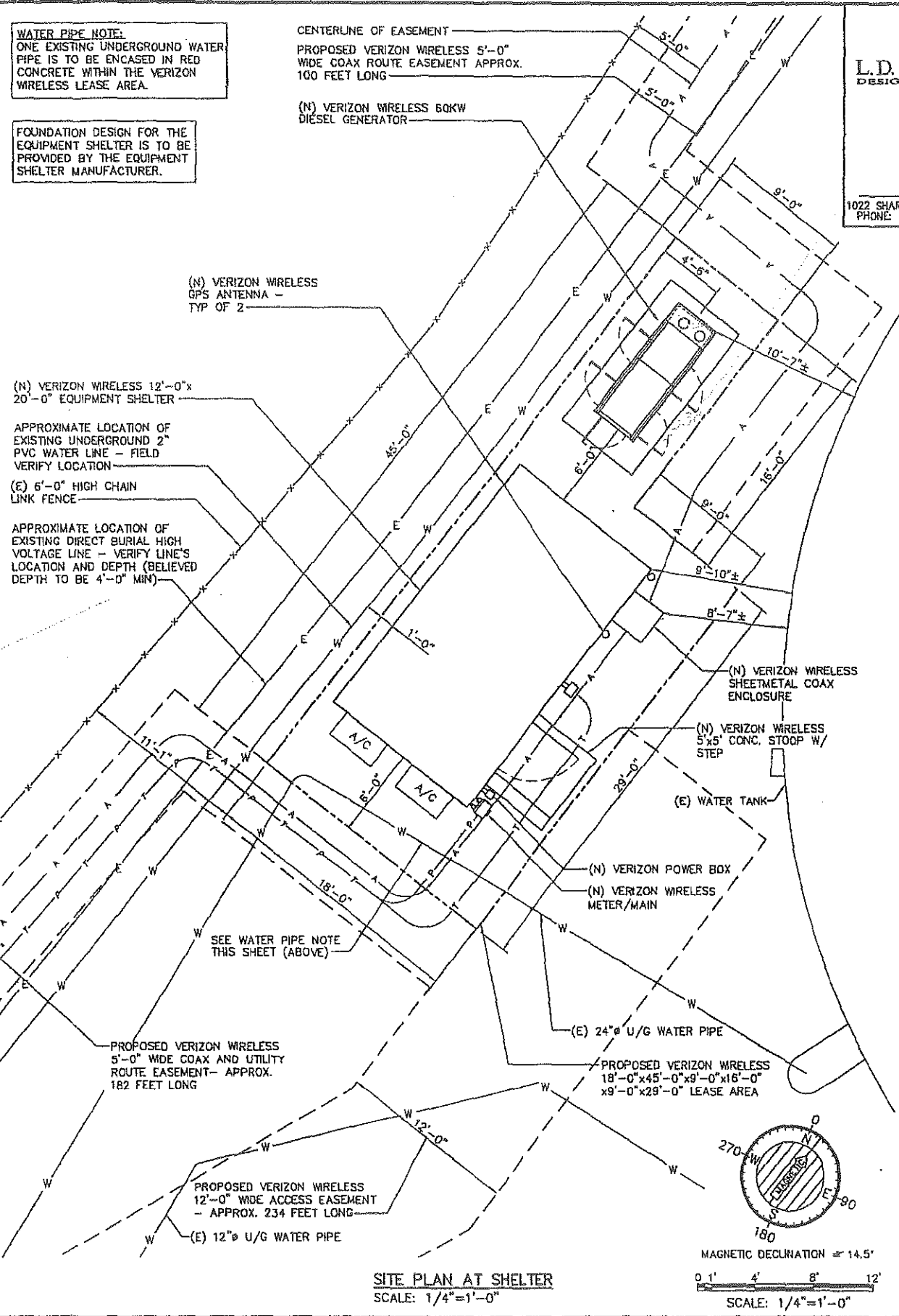
A-2



SITE PLAN AT UPPER ANTENNAS
 SCALE: 1/4"=1'-0"



SITE PLAN AT LOWER ANTENNAS
 SCALE: 1/4"=1'-0"



SITE PLAN AT SHELTER
 SCALE: 1/4"=1'-0"

WATER PIPE NOTE:
 ONE EXISTING UNDERGROUND WATER PIPE IS TO BE ENCASED IN RED CONCRETE WITHIN THE VERIZON WIRELESS LEASE AREA.

FOUNDATION DESIGN FOR THE EQUIPMENT SHELTER IS TO BE PROVIDED BY THE EQUIPMENT SHELTER MANUFACTURER.

CENTERLINE OF EASEMENT
 PROPOSED VERIZON WIRELESS 5'-0" WIDE COAX ROUTE EASEMENT APPROX. 100 FEET LONG

(N) VERIZON WIRELESS 60KW DIESEL GENERATOR

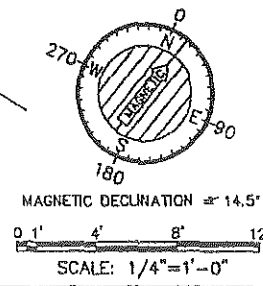
(N) VERIZON WIRELESS GPS ANTENNA - TYP OF 2

(N) VERIZON WIRELESS 12'-0" x 20'-0" EQUIPMENT SHELTER

APPROXIMATE LOCATION OF EXISTING UNDERGROUND 2" PVC WATER LINE - FIELD VERIFY LOCATION

(E) 6'-0" HIGH CHAIN LINK FENCE

APPROXIMATE LOCATION OF EXISTING DIRECT BURIAL HIGH VOLTAGE LINE - VERIFY LINE'S LOCATION AND DEPTH (BELIEVED DEPTH TO BE 4'-0" MIN)



SITE NAME: Half Moon Bay East
SITE NUMBER: 123724
ATTY/DATE: RRY/2.09

Exhibit "C"
(Survey of Property and Premises)

LEGEND

- MARKOLE
- ⊙ WATER VALVE
- ⊙ LIGHT POLE
- ⊙ MONUMENT
- ⊙ TREE
- PP=POWER POLE
- ⊙ JOINT POLE
- TP=TELEPHONE POLE
- ♿ HANDICAPPED PARKING
- LOCATION TIC MARK
- 22.6 — SPOT ELEVATION
- ⊙ CP — ESE FIELD CONTROL POINT

— EDGE OF PAVEMENT

— EDGE OF GRAVEL ROAD

— OVERHEAD ELECTRIC LINE

— OVERHEAD TELEPHONE LINE

— OVERHEAD POWER & TELEPHONE LINE

— FENCE LINE

— PROPERTY LINE

— AMSL...ABOVE MEAN SEA LEVEL

— AGL...ABOVE GROUND LEVEL

EASEMENT DETAIL

GRAPHIC SCALE 1" = 20'

0 20 40 60

VICINITY MAP

SAN MATEO COUNTY

LEWIS FOSTER DRIVE

HWY. 92

HALF MOON BAY

PROJECT LOCATION

NOT TO SCALE

Evans Survey & Engineering

1500 JEFFERSON WAY, SUITE 100
CROCKER, CA 94006

TEL: (415) 488-8700
FAX: (415) 488-8046

Verizon Wireless

VERIZON WIRELESS
2785 MITCHELL DRIVE, BUILDING 8
WALNUT CREEK, CA 94596

SURVEY GENERAL NOTES

DATE OF SURVEY: 07/12/07

SURVEYED BY OR UNDER THE DIRECTION OF: Glen K. Lewis
RCE 33249
EXPIRES 06/30/08

HALF MOON BAY EAST
123724
200 LEWIS FOSTER DR.
HALF MOON BAY, CA 94019
SAN MATEO COUNTY

DESCRIPTION OF PARCEL:
IN THE STATE OF CALIFORNIA, COUNTY OF SAN MATEO, CITY OF HALF MOON BAY, BEING THE LANDS OF COASTSIDE COUNTY WATER DISTRICT AS SHOWN ON THAT CERTAIN RECORD OF SURVEY RECORDED FEBRUARY 21, 1991 IN BOOK 13 OF ULS MAPS AT PAGE 54, SAN MATEO COUNTY OFFICIAL RECORDS.

DESCRIPTION OF LEASE AREA (PARCEL A):
COMMENCING AT THE MOST NORTHWESTERLY CORNER OF THE ABOVE DESCRIBED LANDS; THENCE SOUTH 24°15'04" EAST, ALONG THE SOUTHWESTERLY LINE OF SAID LANDS, 112.18 FEET; THENCE NORTH 65°44'58" EAST, PERPENDICULAR TO SAID SOUTHWESTERLY LINE, 66.18 FEET TO THE POINT OF BEGINNING; THENCE FROM SAID POINT OF BEGINNING NORTH 13°30'23" EAST 43.00 FEET; THENCE SOUTH 78°28'37" EAST 8.00 FEET; THENCE SOUTH 13°30'23" WEST 18.00 FEET; THENCE SOUTH 78°28'37" EAST 8.00 FEET; THENCE SOUTH 13°30'23" WEST 28.00 FEET; THENCE NORTH 78°28'37" WEST 18.00 FEET TO THE POINT OF BEGINNING. CONTAINING 688 SQUARE FEET MORE OR LESS.

DESCRIPTION OF LEASE AREA (PARCEL B):
COMMENCING AT THE MOST NORTHEASTERLY CORNER OF THE ABOVE DESCRIBED LANDS; THENCE SOUTH 21°58'57" EAST, ALONG THE NORTHEASTERLY LINE OF SAID LANDS, 66.39 FEET; THENCE SOUTH 69°03'03" WEST, PERPENDICULAR TO SAID NORTHEASTERLY LINE, 66.64 FEET TO THE POINT OF BEGINNING; THENCE FROM SAID POINT OF BEGINNING SOUTH 65°28'55" WEST 8.00 FEET; THENCE NORTH 24°30'05" WEST 8.00 FEET; THENCE NORTH 65°28'55" EAST 8.00 FEET; THENCE SOUTH 24°30'05" EAST 8.00 FEET TO THE POINT OF BEGINNING. CONTAINING 64 SQUARE FEET MORE OR LESS.

TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS FROM THE LEASE AREA TO THE PUBLIC ROAD, SHOWN HEREON AS PARCELS C.

TOGETHER WITH UTILITY AND POWER EASEMENTS NECESSARY TO SERVE THE LEASE AREA, SHOWN HEREON AS PARCELS D THROUGH J.

SITE NAME & NUMBER: HALF MOON BAY EAST 123724

SITE ADDRESS: 200 LEWIS FOSTER DR.
HALF MOON BAY, CA 94019

ASSESSOR'S PARCEL NUMBER: 056-310-270 & 056-310-400

APPLICANT: VERIZON WIRELESS
2785 MITCHELL DRIVE, BUILDING 8
WALNUT CREEK, CA 94596

OWNER:
COASTSIDE COUNTY WATER DIST.
788 MAIN ST.
HALF MOON BAY, CA 94019

ELEVATIONS SHOWN ARE BASED ON NAVD 88 DATUM.

BEARINGS SHOWN ARE BASED UPON THAT CERTAIN RECORD OF SURVEY RECORDED FEBRUARY 21, 1991, IN BOOK 13 OF ULS MAPS AT PAGE 64, SAN MATEO COUNTY OFFICIAL RECORDS.

FLOOD PLAIN ELEVATION OF PROJECT AREA IN ZONE C, AN AREA OF UNBUILT FLOODING, AS SHOWN ON FEMA FIRM MAP COMMUNITY-PANEL NUMBER 080319 0005 A, DATED JUNE 3, 1988.

THE LOCATION OF EXISTING UTILITY FACILITIES HAS NOT BEEN RESEARCHED. THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES TO OBTAIN INFORMATION REGARDING THE DEPTH OF BURIAL AND HORIZONTAL LOCATION OF UTILITY LINES PRIOR TO CONSTRUCTION. EVANS SURVEY & ENGINEERING ASSUMES NO RESPONSIBILITY FOR THE DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF BURIED OBJECTS WHICH ARE NOT SHOWN ON THIS PLAN.

FAA 1A CERTIFICATION:
LATITUDE AND LONGITUDE DENOTED ON THIS PLAN ARE ACCURATE TO WITHIN 1/8" FEET HORIZONTALLY AND THE ELEVATIONS SHOWN ON THIS PLAN ARE ACCURATE TO WITHIN 3/8" FEET VERTICALLY.

NORTHERLY ANTENNA LOCATION
LATITUDE: 37°28'27.33"
LONGITUDE: 122°25'20.57" (NAD 27) LONGITUDE: 122°25'24.46" (NAD 83)

SOUTHERLY ANTENNA LOCATION
LATITUDE: 37°28'24.21"
LONGITUDE: 122°25'21.46" (NAD 27) LONGITUDE: 122°25'25.37" (NAD 83)

APPROVALS

| | |
|---------------|-------|
| LEASING: | DATE: |
| ZONING: | DATE: |
| RF ENGINEER: | DATE: |
| CONSTRUCTION: | DATE: |
| EQUIP. ENGR: | DATE: |
| OWNER: | DATE: |

| | |
|-------------|----------------|
| SITE NO | 123724 |
| APPROVED BY | G.L. |
| DRAWN BY | ESE CADD DEPT. |
| CHECKED BY | ESE CADD DEPT. |

| NO | DATE | ISSUE |
|----|----------|--------------------------|
| 1 | 07/23/07 | ISSUED FOR 90% |
| 2 | 08/21/07 | REV. #1 PER EMAIL |
| 3 | 09/24/07 | REV. #2 PER EMAIL |
| 4 | 12/14/07 | REV. #3 PER EMAIL |
| 5 | 05/29/08 | REV. PER ADDTL. DOC'S |
| 6 | 08/15/08 | REV. LEASE LOCATION/TIES |

SHEET TITLE

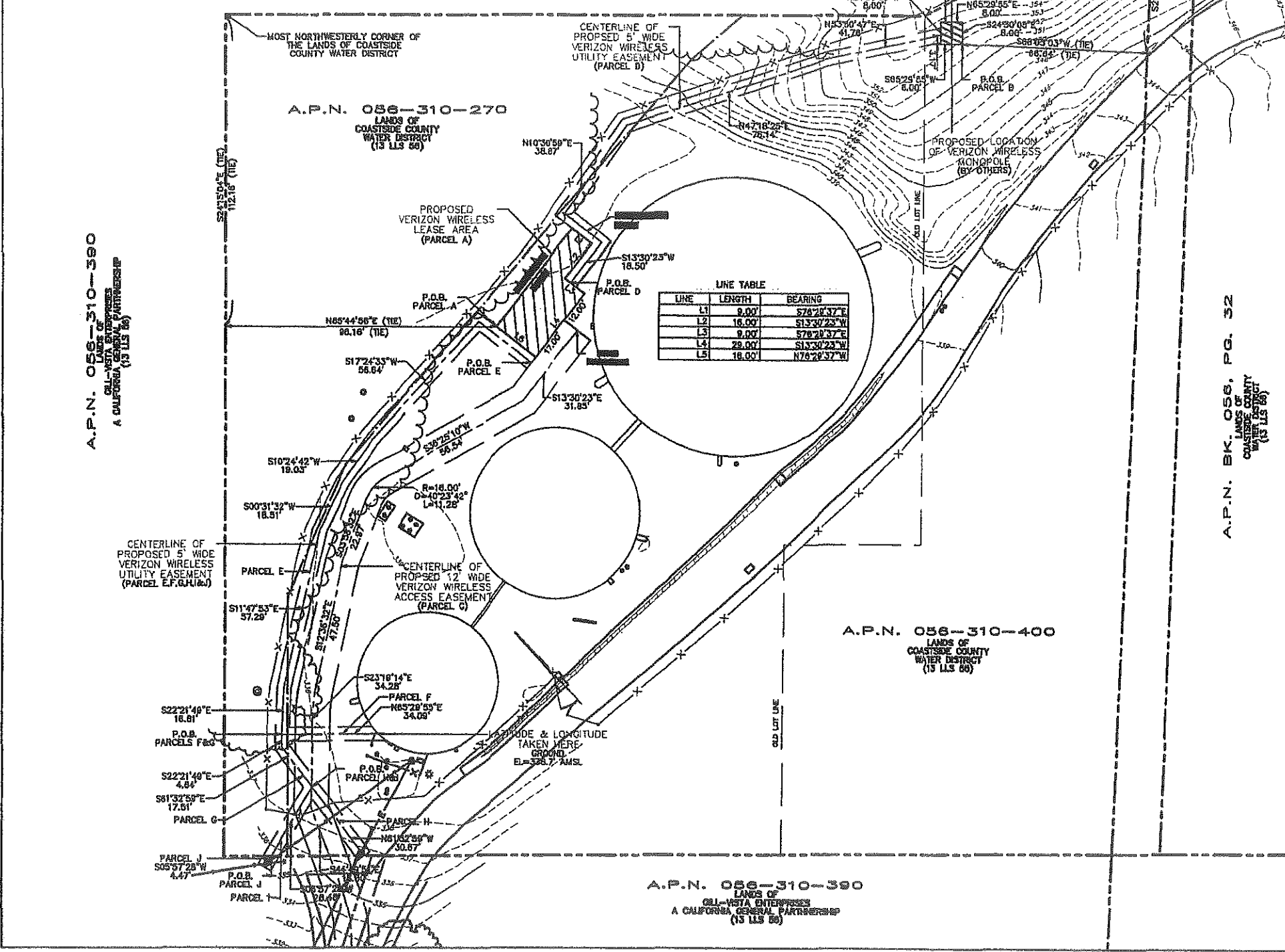
SITE SURVEY

SURVEYED BY / OR UNDER THE DIRECTION OF:

SHEET NUMBER

C-2
(SHEET 2 OF 2)

COMPANY JOB NO. 07-645



F:\ESE PROJECTS\VERIZON\VERIZON WIRELESS 2007 JOBS\123724 HALF MOON BAY EAST\OFFICE\123724 2006-05-28.dwg

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David Dickson, General Manager

Agenda: September 8, 2009

Report

Date: September 3, 2009

Subject: Approval of Water Service Agreement for Ailanto Properties'
Pacific Ridge Subdivision

Recommendation:

Approve attached Water Service Agreement for the Ailanto Properties Pacific Ridge subdivision.

Background:

Ailanto Properties is building Pacific Ridge, a subdivision of 63 single-family residences east of Terrace and Silver Avenues in Half Moon Bay. Ailanto has submitted for District review all documents required under Resolution 2003-11 (Regulations Regarding Water Service Extensions And Water System Improvements). As reported to the Board at the January 13, 2009 meeting, District Engineer James Teter approved Ailanto's initial submittal as satisfactory and in compliance with District requirements on January 8, 2009. Following a number of submittals since that time, Engineer Teter has now affirmed that the plans for the subdivision water system are satisfactory and that engineering review of the project is complete.

Following engineering review District Counsel Patrick Miyaki and staff prepared the attached Water Service Agreement in accordance with District policy and practice. The approved project plans and specifications are incorporated into the Water Service Agreement. Under the terms of the agreement, Ailanto will construct the water system and turn ownership over to the District on its completion, along with all required easements.

Fiscal Impact:

Increased water revenue due to new connections. All costs for engineering review, construction inspection, meter installation, administrative support, and other District activities associated with providing water service for the subdivision are paid by the applicant.

WATER SERVICE AGREEMENT

AILANTO PROPERTIES PACIFIC RIDGE SUBDIVISION

THIS AGREEMENT is made as of this _____ day of September 2009, between COASTSIDE COUNTY WATER DISTRICT ("District"), and AILANTO PROPERTIES, INC ("Applicant").

THE PARTIES AGREE AS FOLLOWS:

1. RECITALS

This Agreement is entered into with regard to the following facts and circumstances.

A. District is a public corporation organized under the provisions of the California Water Code and is engaged in the storage, transmission and sale of water for domestic purposes within San Mateo County.

B. Applicant is a California corporation engaged in the development of real property within the geographical limits of the District. Applicant is the owner of certain real property consisting of approximately 115 acres located east of State Highway One, in the City of Half Moon Bay, designated Assessor's Parcel Numbers 056-350-010 and 048-269-220 ("the Property"), the location of which is shown on Exhibit A.

C. Applicant has obtained approval from the City of Half Moon Bay and the California Coastal Commission for, and proposes to construct on the Property 63 single-family residences, the general layout of which is as shown on Exhibit B (the "Project").

2. APPROVAL OF SUBDIVISION UTILITY SYSTEM

The Subdivision Utility System, as defined below, shown on and described in (a) the Ailanto Properties Pacific Ridge Improvement Plans, consisting of 18 sheets, dated August 2009, prepared by DK Consulting, (b) the Joint Trench Plans, consisting of 6 sheets, dated August 2009, prepared by DK consulting, (c) the Final Map, consisting of 9 sheets, dated August 2009, prepared by DK Consulting, and (d) the Water System Specifications for

Pacific Ridge, dated September 2, 2009, prepared by District Engineer James Teter (hereinafter collectively, the "reviewed submittal documents"), are approved. Copies of the reviewed submittal documents are on file at the office of the District and are incorporated herein by this reference as Exhibit C. The Subdivision Utility System and reviewed submittal documents as approved by this Agreement shall not be modified unless approved by the District and Applicant.

"Subdivision Utility System" means the water mains, service lines from the water mains to the meters, fittings, valves and housing thereof, fire hydrants, manholes, and all appurtenances thereto, except water meters for individual units and irrigation service, required to service the Project, as depicted and described in the reviewed submittal documents.

3. INSTALLATION

A. Applicant shall commence installation of the Subdivision Utility System no later than three (3) years, subject to extension for force majeure events not the fault of Applicant, after the date of this Agreement and shall complete its installation within twelve (12) months after the commencement of said construction. If installation is not commenced and/or completed by such dates, the District may terminate this Agreement, unless the delay is solely attributable to events, such as fire, flood or earthquake, which are beyond the control of, and not the fault of, Applicant.

B. Applicant shall install the Subdivision Utility System in accordance with (1) the location and sizes shown on the reviewed submittal documents identified in Section 2; (2) the District's "Standard Specifications and Construction Details," a copy of which has previously been furnished to Applicant; and (3) the further reasonable directions of the District Engineer.

4. INSPECTION; CONSTRUCTION

A. Prior to commencing construction, Applicant shall furnish to the District Engineer, at Applicant's expense, a report by a competent soils engineer or soils laboratory indicating that the compaction of the fills within which said facilities are to be installed is at least equal to ninety-five percent (95%) compaction, as that phrase is defined in the latest edition of the Standard Specifications, State of California, Department of Transportation, or meets such other criteria as the District Engineer may prescribe.

B. Applicant shall notify District in writing at least ten (10) days in advance of the proposed starting date for construction and shall not commence construction unless the District Engineer or other authorized District inspector is at the site of the work when construction begins. District agrees to make the District Engineer or other authorized District inspector available to be on site, provided the ten (10) days advance notice is given by Applicant. If construction is not continuous, District shall be notified at least forty-eight (48) hours in advance of the resumption of construction. Any work performed without notice to District may be rejected by District on that ground alone. The District Engineer will observe and inspect facilities solely to protect the interests of the District and to determine whether the completed work is acceptable to District and can be incorporated into the District system. The District does not assume thereby any responsibility for the operations or safety practices of Applicant. Applicant is responsible for correct location of all facilities which it installs. The District Engineer will not inspect facilities installed "downstream" of the individual meter boxes.

C. Applicant shall permit District's employees and authorized representatives to inspect the Subdivision Utility System, and the plans and materials therefore, at any reasonable time before, during, or after installation.

D. Applicant shall repair at its expense (or, at the option of District, shall reimburse District for the actual cost of repairs effected by it) any damage to District property caused by Applicant, its agents, employees, or contractors in constructing the Subdivision Utility System.

5. PAYMENT OF FEES AND CHARGES

The Applicant will pay applicable fees and charges as follows:

A. Transmission and Storage Fees. None due. Applicant has previously paid the transmission and storage fees attributable to two hundred and twenty-three (223) 5/8" non-priority water service connections.

B. Water Meter Installation Fees. None due currently. However, prior to installation of individual meters, the District will review building plans for each parcel and applicant shall deposit sufficient funds for actual costs of the purchase and installation.

No deposit is required for fire service meters. Applicant will pay the District's actual cost of purchase and installation of the fire service meters at the time Applicant requests meter installation.

C. Initial Filing Fee. None due. Applicant has previously paid non-refundable initial filing fees in the amount of One Thousand Three Hundred Ninety-Five Dollars (\$1395.00).

D. Plan Check and Construction Inspection Fees.

Concurrently with the execution of this Agreement, Applicant shall pay the sum of Twenty-Five Thousand Dollars (\$25,000), which is the amount due for the District staff and Engineer's costs in reviewing final plans, inspecting the construction of the Subdivision Utility System, modifications of water system maps, and administrative, legal, and auditing costs.

E. Total Payment Due with Agreement. The total payment due concurrently with execution of this Agreement shall be Twenty-Five Thousand Dollars (\$25,000), which represents the sum of fees listed in paragraphs A, B, C, and D.

6. BONDS

Following execution of this Agreement, and at least ten (10) days prior to commencing construction on the Subdivision Utility System, Applicant shall furnish to District the following bonds. The amount of each bond will be determined later, based on 100% of the cost of construction or maintenance of the Subdivision Utility System, as the case may be, and based on cost estimates by applicant and approved by the District Engineer no more than 90 days prior to the commencement of construction. The necessary bonds and current amounts are as follows:

A. Payment Bond: in the amount of \$832,964.00 to guarantee payment of the obligations referred to in Section 3248 of the Civil Code;

B. Performance Bond: in the sum of \$832,964.00 to guarantee the faithful performance of the terms of this Agreement; and

C. Maintenance Bond: in the sum of \$83,296.00 (which shall not be less than ten percent (10%) of the estimated cost of constructing the Subdivision Utility System) against defective materials and faulty workmanship for a period of two (2) years from and after the acceptance of the Subdivision Utility System by District (“2 year warranty”).

The bonds shall be in a form satisfactory to District. The surety or sureties must be qualified to do business in California. If any of the sureties, in the sole opinion of District, is or becomes irresponsible, District may require other or additional sureties which Applicant shall furnish to the satisfaction of District within ten (10) days after notice from District. In default thereof, District shall be released from all obligations under this Agreement. No prepayment or delay in payment and no change, extension, addition, or alteration or any provision of this Agreement or in the approved submittal documents referred to in Section 2, above, and no forbearance or acceptance by or on the part of District shall operate to release any surety from liability on a bond. The obligations of the surety under the performance bond expire upon the acceptance of the Subdivision Utility System by the District and the obligation under the maintenance bond expire upon satisfactory completion of the 2 year warranty period.

7. INDEMNITY

A. District shall not be responsible or held liable in any manner whatsoever for any injury or damage which may be done to any person or property (or other loss or liability) arising from the performance or failure to perform the obligations set forth in this Agreement and the installation of the Subdivision Utility System by or on behalf of Applicant.

B. Applicant, on its behalf and on behalf of its successors in interest, hereby agrees to waive any claims against District arising from or related to the events and activities described in Subsection A, above, and to indemnify, defend and hold harmless the District, its directors, officers, employees, and agents from and against any and all liability for the death of or injury to any person and for the loss of, or damage to, any property (including the loss of its use) which may arise from such events and activities. The agreements contained in this paragraph shall survive the performance of the remainder of this Agreement and shall remain in full force and effect notwithstanding such performance.

C. The provisions of Section 7.A and 7.B shall not be applicable to injury or damage, loss or liability caused by the District's sole, active negligence or willful misconduct.

8. INSURANCE

A. Applicant or its construction contractor shall, at its cost, maintain in full force and effect during the period beginning with commencement of construction of the Subdivision Utility System and terminating no earlier than thirty (30) days after completion thereof and approval by District for its connection with the District's distribution system, a policy or policies of liability insurance, as follows:

1. Bodily and personal injury liability in an amount not less than One Million Dollars (\$1,000,000.00) per person and Two Million Dollars (\$2,000,000.00) per occurrence; and

2. Property damage insurance in an amount not less than One Million Dollars (\$1,000,000.00) per occurrence.

Such policies shall insure District as an additional insured against any and all liability for the death of or injury to any person and for the loss of or damage to any property which may arise by reason of acts done or omitted to be done as a result of the installation of the Subdivision Utility System by or on behalf of Applicant and shall further insure District against any and all costs and expenses, including attorneys fees, which District may incur in resisting any claim which may be made against District for any such injury or damage.

B. Each such policy shall:

1. be issued by an insurance company or companies qualified to do business in California and approved in writing by District;

2. name District, its Directors, officers, agents and employees, as additional insureds;

3. specify that it acts as Primary Insurance; the insurer being liable thereunder for the full amount of any loss up to and including the total limit of liability without right of contribution from any insurance effected by District;

4. provide that the policy shall not be cancelled or altered without thirty (30) days' prior written notice to District; and

5. otherwise be in form reasonably satisfactory to District.

C. Applicant or its contractor shall provide, and maintain at all times during the course of installation of the Subdivision Utility System, Worker's Compensation Insurance in conformance with the laws of the State of California. Such policy shall provide that the underwriter thereof waives all right of subrogation against District by reason of any claim arising out of or connected with installation of the Subdivision Utility System and that such policy shall not be cancelled or altered without thirty (30) days' prior written notice to District.

D. Copies of all policies required above (or Certificates of Insurance satisfactory to District) shall be delivered to District at least ten (10) days prior to commencement of construction of the Subdivision Utility System.

9. SIZING OF INTERIOR PLUMBING; WATER PRESSURE

It is Applicant's responsibility to ensure sufficiency of water flow and pressure at all fixture units in each residence; District shall have no responsibility to inspect the installation of interior plumbing fixtures or piping.

10. CONVEYANCE OF TITLE TO SUBDIVISION UTILITY SYSTEM

Full right, title and interest in and to all elements of the Subdivision Utility System installed pursuant hereto will be granted to District upon written notice of acceptance thereof by District and without the necessity for any further action by Applicant. There shall be no obligation upon District to pay or reimburse to Applicant any part of the cost of Subdivision Utility System. Applicant warrants that upon such passage of title to District, the title shall be free and clear from any and all mechanics and materialmen liens that could arise from construction of the Subdivision Utility System, charges and encumbrances whatsoever. All water meters installed by the District are and will remain the property of District.

11. CONVEYANCE OF EASEMENTS

Applicant further agrees that it will convey to District all easements necessary for access to and maintenance of the Subdivision Utility System via the recordation of the Final Map.

12. ACCEPTANCE BY DISTRICT

District shall accept the Subdivision Utility System when all of the following conditions have been met: (1) completion of the Subdivision Utility System; (2) written certification by District Engineer upon completion that the Subdivision Utility System has been constructed in accordance with this Agreement; (3) furnishing by Applicant of evidence in a form acceptable to District that it has paid all costs incurred in constructing the Subdivision Utility System, including but not limited to paying in full all contractors, subcontractors, suppliers, vendors, and employees performing work on the Project; (4) performance by Applicant of all of its obligations under this Agreement which are to be completed prior to acceptance of the Subdivision Utility System, including payment of all sums due the District; and (5) furnishing by Applicant of two sets of nonammonia-type mylar reproducible drawings of the completed improvements showing "as-built" conditions.

Upon acceptance, and payment for the cost of meter installation, District shall provide water utility service to the Project.

Upon acceptance, Applicant shall be relieved of all future obligation to maintain, improve, service, or repair the Subdivision Utility System, subject to its obligation to repair defects, which obligation is secured by the maintenance bond provided for in Section 6.C., for the duration of the term of such bond (i.e., two years after acceptance).

Prior to acceptance, all liability and risk of loss associated with the Subdivision Utility System shall remain with the Applicant or with its assignee if the Agreement has been assigned pursuant to Section 15. Upon acceptance, all liability and risk of loss associated with the Subdivision Utility System shall be the exclusive responsibility of District.

13. EXECUTION AND PERFORMANCE OF AGREEMENT

Execution of this Agreement is a condition precedent to issuance by District of any letters, approvals, consents, or communications to any state, municipal, local or other public bodies regarding the availability of water service to the area to be developed. Full performance of and compliance with each and every term of this Agreement by Applicant is a condition precedent to water service by District.

14. DISTRICT REGULATIONS

Applicant shall at all times abide by and faithfully observe any and all District ordinances, resolutions, rules and regulations presently in effect, including current fee schedules, or which may hereafter be enacted or amended from time to time, including but not limited to *Regulations Regarding Water Service Extensions and Water System Improvements; Engineering and Construction Standards; Approved Materials* (codified through Resolution No. 2003-11, March 2004), a copy of which has previously been furnished to Applicant.

15. ASSIGNMENT

Applicant's rights under this Agreement may be assigned only in connection with a sale or conveyance of the Property. No such assignment shall be valid or binding on the District unless the assignee (1) executes a written instrument, in form and substance satisfactory to District, assuming all of Applicant's obligations under this Agreement, which have not been fully performed as of the date of assignment and (2) provides replacement bonds to satisfy any obligations which have not been fully performed by Applicant. Applicant may, at its option, provide bonds that guarantee its performance and that of any assignee, in which case no replacement bonds pursuant to this section would be necessary. Upon posting of any replacement bonds, the District shall immediately release the bonds posted by Applicant.

This Agreement shall be binding upon and shall inure to the benefit of the parties and their successors and permitted assigns. If the Applicant or a permitted successor or assign shall disincorporate, forfeit its articles or right of incorporation, or otherwise fully terminate without a successor or assign, District shall as of the date of disincorporation, forfeiture or termination own the Subdivision Utility System free and clear of any obligation to any party.

16. NOTICE

Any notice required by this Agreement shall be satisfied by a notice in writing, either delivered personally or sent by regular or certified mail, postage prepaid, and addressed as follows:

District: Coastside County Water District
766 Main Street
Half Moon Bay, CA 94019
Attention: David R. Dickson, General Manager

Applicant: Ailanto Properties, Inc.
1901 Harrison St., Suite 1430
Oakland, California 94612
Attention: Albert Fong

17. CONSTRUCTION OF AGREEMENT

Both parties have participated in preparing this Agreement. This Agreement shall be construed reasonably and not in favor of or against either party hereto on the grounds that one party prepared the Agreement.

18. ENTIRE AGREEMENT

This Agreement, including the Exhibits which are hereby incorporated by reference, contains the entire agreement between the parties hereto. No oral understandings, statements, promises or inducements contrary to the terms of this Agreement exist.

19. APPLICABLE LAW

This Agreement shall be governed by and construed and enforced in accordance with and subject to the laws of the State of California. Except as expressly provided for herein, this Agreement is not intended to, and does not, modify the District's rights to exercise the legislative discretion accorded to it by the laws of California. Any lawsuit related to this Agreement shall be commenced and prosecuted in the County of San Mateo, State of California.

20. AMENDMENT

Any amendment hereof, including any oral modification allegedly supported by new consideration, shall not be effective unless reduced to a writing signed by both parties.

21. AUTHORIZED SIGNATURE

The individuals whose names are subscribed to this Agreement represent that they are authorized to act on behalf of the party for whom they sign.

22. TIME

Time is of the essence of the Agreement.

IN WITNESS WHEREOF the parties hereto have executed this Agreement as of the day and year first above written.

COASTSIDE COUNTY WATER DISTRICT

By: _____
President, Board of Directors

By: _____
Secretary

AILANTO PROPERTIES, INC.

By: _____
Name: Albert Fong
Its: President

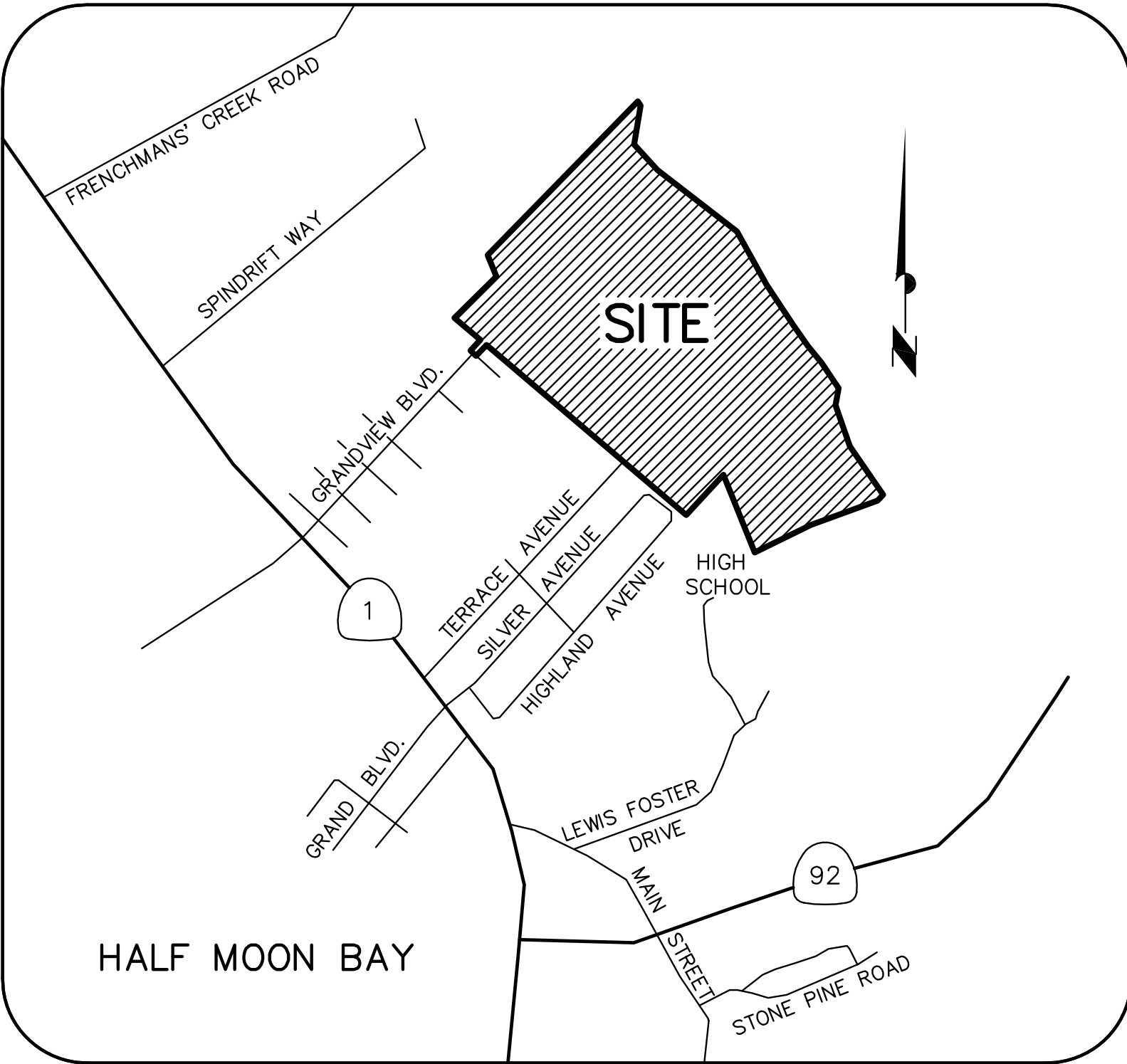
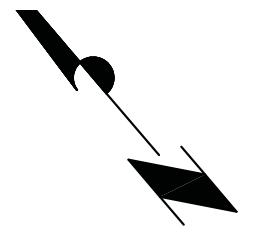


Exhibit A
Pacific Ridge
Project Location



PARCEL A

SOUZA
04062445

LANDS OF PRATT
13 LLS 10

LANDS OF
ADVANCED
DEVELOPERS, INC.
13 LLS 10

PARCEL E

YAMAGIWA
93215361

CABRILLO UNIFIED
SCHOOL DISTRICT
4013 OR 168

Exhibit B
Pacific Ridge
Project Layout

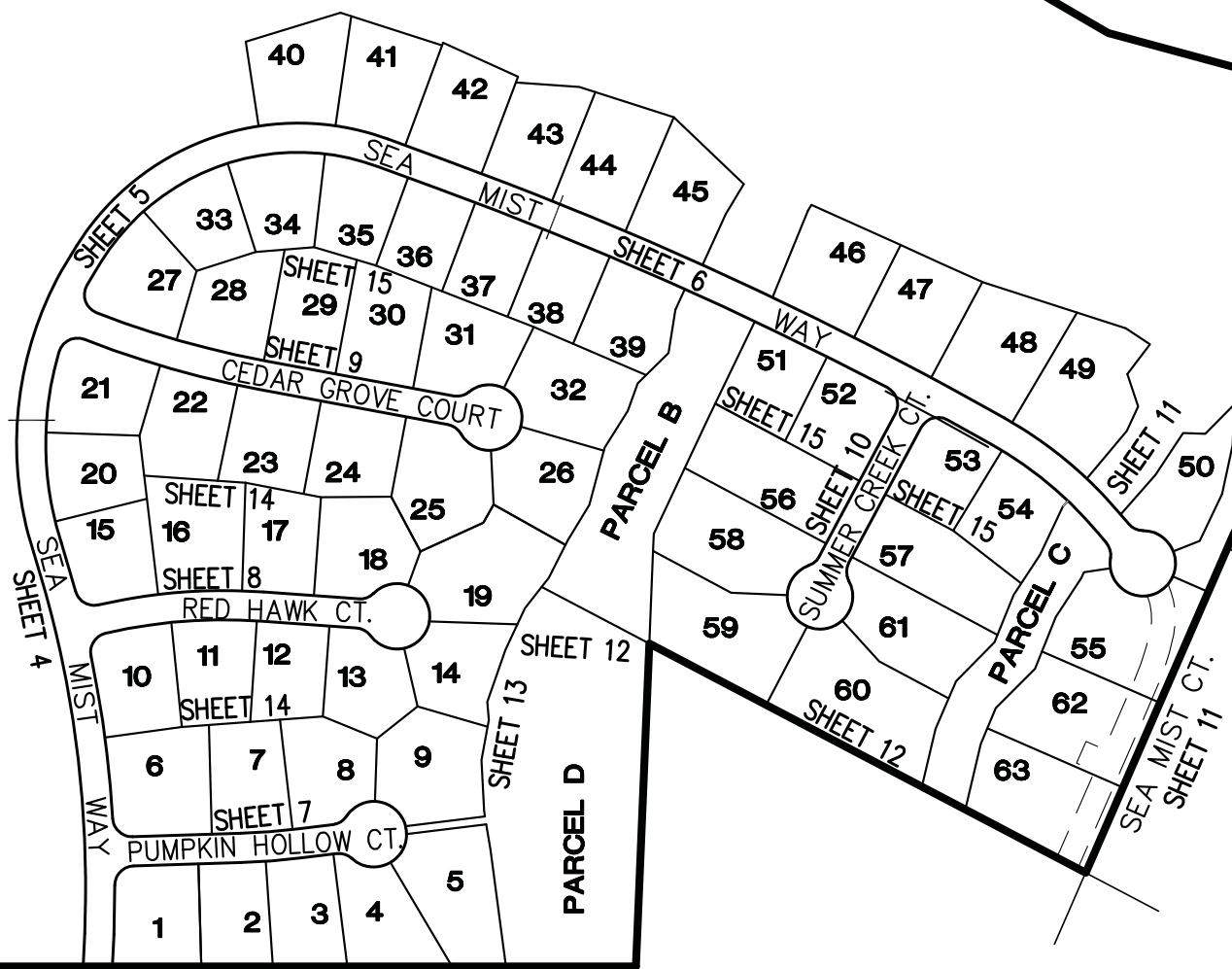


Exhibit C

Pacific Ridge Water Service Agreement

Contents

Improvement Plans (18 sheets)

Joint Trench Plans (6 sheets)

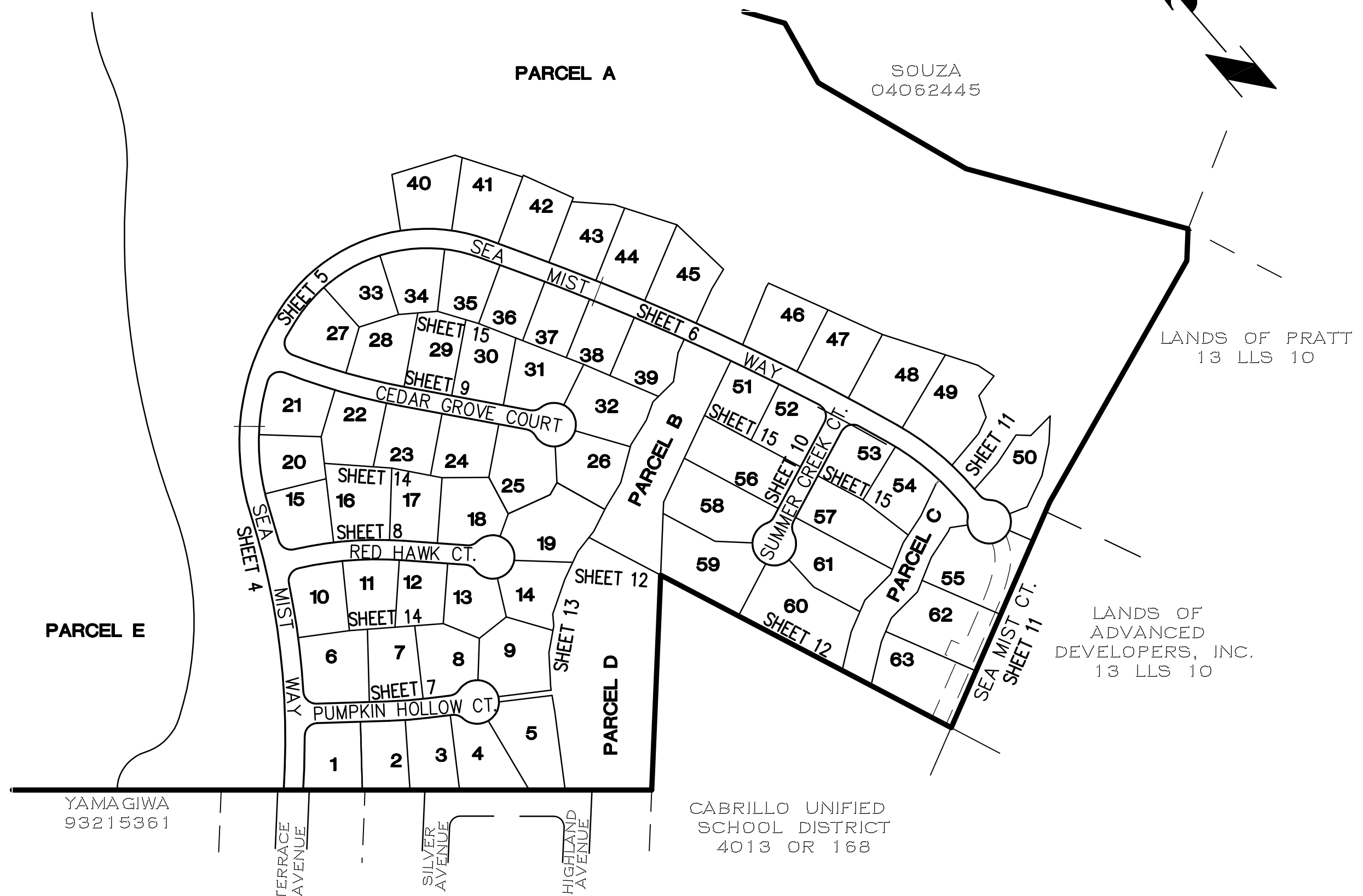
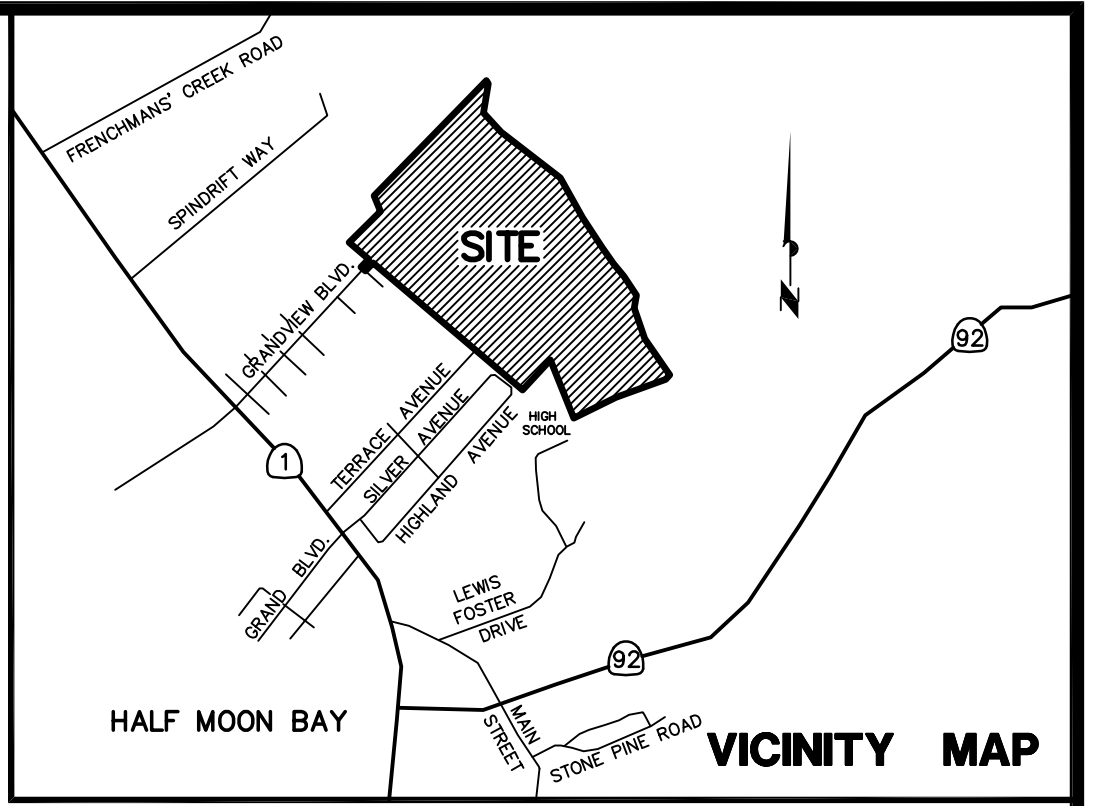
Final Map (9 sheets)

Water System Specifications for Pacific Ridge – September 2, 2009

GENERAL NOTES

- DEVELOPER: AILANTO PROPERTIES, INC.
1901 HARRISON STREET SUITE 1430
OAKLAND, CA. 94612
PROJECT MANAGER: CYDIA KWON (510) 465-8888
- CIVIL ENGINEER: dk CONSULTING
1440 MARIA LANE, SUITE 200
WALNUT CREEK, CA 94596
CONTACT: DAVID FRANCKE (925) 932-6868
- SOILS ENGINEER: ROMIG ENGINEERS, INC.
1390 EL CAMINO REAL, SECOND FLOOR
SAN CARLOS, CA 94070
CONTACT: ROBERT WILSON III (650) 591-5224
- BENCHMARK: U.S.C.&G.S. BRASS CAP DISK N211-1935 FLUSH WITH SIDEWALK ALONG WEST SIDE OF CHURCH STREET AND 30' +/- SOUTH OF MIRAMONTES STREET. ELEVATION=69.45
- THE ENGINEER ASSUMES NO RESPONSIBILITY BEYOND THE ADEQUACY OF HIS DESIGN CONTAINED HEREIN.
- ALL STAKING REQUESTS SHALL BE DIRECTED TO THE ENGINEER AT LEAST 2 WORKING DAYS PRIOR TO ACTUAL NEED. THE PROTECTION OF THOSE STAKES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY ADDITIONAL STAKING OR RESTAKING WILL BE DONE ONLY AS DIRECTED AND AUTHORIZED BY THE OWNER OR HIS AUTHORIZED AGENT.
- OBSTRUCTIONS INDICATED ARE FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH WITH THE APPROPRIATE AGENCIES. NEITHER THE OWNER NOR THE ENGINEER ASSUMES RESPONSIBILITY THAT THE OBSTRUCTIONS INDICATED WILL ACTUALLY BE THE OBSTRUCTIONS ENCOUNTERED. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (800) 642-2222, TWO WORKING DAYS PRIOR TO ANY EXCAVATION.
- CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INDICATING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, HOLD THE OWNER, DEVELOPER, PROJECT ENGINEER, AND THE CITY ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF OWNER OR ENGINEER.
- IF IT APPEARS THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT dk CONSULTING (925) 932-6868 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- EXISTING UTILITIES MUST NOT BE INTERRUPTED UNTIL THE UTILITY COMPANY HAS PROVIDED ALTERNATIVE SERVICE FACILITIES. THE CONTRACTOR SHALL COOPERATE AND COORDINATE HIS WORK WITH P.G. & E. AND THE CITY OF HALF MOON BAY.
- THE EXCAVATION TRENCH WIDTH FOR ALL PIPES, WITH THE EXCEPTION OF C.I.P.P., SHALL BE A MINIMUM OF 24" GREATER THAN THE OUTSIDE DIAMETER OF THE PIPE. ONE-HALF OF THE MINIMUM DIMENSION SHALL BE AVAILABLE ON EITHER SIDE OF THE PIPE. THE SAFETY REQUIREMENTS OF THE OCCUPATION SAFETY AND HEALTH ACT FOR TRENCH SHORING AND BRACING SHALL BE COMPLIED WITH WHERE APPLICABLE.
- ALL TRENCHES OVER 5 FEET IN DEPTH SHALL BE SHORED IN ACCORDANCE WITH CAL-OSHA "CONSTRUCTION SAFETY ORDERS" CURRENT EDITION. CONTRACTOR MUST HAVE VALID TRENCH SHORING PERMIT ISSUED BY CAL-OSHA. ALL TRENCH EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH THE CURRENT CITY STANDARD DRAWINGS AND SPECIFICATIONS.
- ALL STREET IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT CITY AND COUNTY STANDARD SPECIFICATIONS, AND STANDARD PLANS. THE IMPROVEMENTS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT. CONTACT THE PUBLIC WORKS CONSTRUCTION INSPECTION AT (650) 726-8260 AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY WORK TO ARRANGE FOR INSPECTION.
- CONTRACTOR IS RESPONSIBLE FOR ALL ASPECTS OF "EROSION CONTROL" AND SHALL INSTALL AND MAINTAIN ANY DEVICES AND MEASURES NECESSARY TO THE SATISFACTION OF THE CITY ENGINEER, DURING THE PERIOD OF OCTOBER 1 TO APRIL 15. THE AREA OF BARE SOIL EXPOSED AT ONE TIME SHALL BE MINIMIZED AND AREAS SHALL BE CLEARED ONLY THAT ARE ESSENTIAL FOR CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH ALL U.B.C. REGULATIONS FOR GRADING TO REDUCE TEMPORARY EROSION IMPACTS ASSOCIATED WITH DEVELOPMENT.
- CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- ALL EXISTING ELEVATIONS SHOWN ARE AS MEASURED IN THE FIELD, UNLESS OTHERWISE NOTED.
- TERRACE AVENUE MAY BE USED AS THE VEHICULAR ACCESS ROUTE FOR THE PROJECT, AND FOR REQUIRED DEVELOPMENT AND CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO TERRACE AVENUE CAUSED BY DEVELOPMENT AND CONSTRUCTION.
- CONSTRUCTION EQUIPMENT AND WORKER VEHICLES SHALL BE STAGED AND PARKED ON THE PROJECT SITE. THE CONTRACTOR SHALL NOTIFY THE CITY 24 HOURS IN ADVANCE IF MORE THAN 25 WORKER VEHICLES ARE TO EXIT THE SITE DURING THE PM PEAK-HOUR, AND REIMBURSE THE CITY FOR THE COST OF ANY RESULTING TRAFFIC CONTROLS AT THE INTERSECTION OF TERRACE AVENUE AND HIGHWAY 1.
- THE WORKSITE SHALL BE MAINTAINED IN AN ORDERLY FASHION. FOLLOWING THE CESSATION OF CONSTRUCTION ACTIVITY, ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE. THE CONTRACTOR SHALL MAINTAIN TERRACE AVENUE FREE OF DIRT AND DEBRIS THROUGHOUT PROJECT CONSTRUCTION.
- NOISE GENERATING CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE HOURS OF 7:00 AM TO 5:30 PM, MONDAY THROUGH FRIDAY, AND 9:00 AM TO 5:00 PM SATURDAYS, AND SHALL BE PROHIBITED ON SUNDAYS AND ON CITY RECOGNIZED STATE AND FEDERAL HOLIDAYS.
- EXCEPT IN CASES OF EMERGENCY, HEAVY CONSTRUCTION VEHICLES SHALL ONLY ACCESS THE SITE BETWEEN 10:00 AM AND 3:00 PM.
- THE CONTRACTOR SHALL INSTALL SPEED BUMPS ON TERRACE AVENUE, IF REQUIRED BY THE CITY.
- THE DEVELOPER SHALL REQUIRE THEIR CONTRACTORS TO FIT ALL INTERNAL COMBUSTION ENGINES WITH MUFFLERS AND SHALL LOCATE NOISE-GENERATING EQUIPMENT SUCH AS AIR COMPRESSORS, CONCRETE PUMPS AND POWER GENERATORS AS FAR AWAY FROM EXISTING RESIDENCES AS POSSIBLE. UNNECESSARY IDLING OF ENGINES SHALL BE PROHIBITED.
- ALL CHEMICALS AND PETROLEUM PRODUCTS STORED ON-SITE DURING CONSTRUCTION SHALL BE WITHIN A BERMED CONTAINMENT AREA OR OTHER APPROPRIATE FACILITY. THE HANDLING, STORAGE AND DISPOSAL OF ANY HAZARDOUS MATERIALS USED ON THE SITE WILL BE IN ACCORDANCE WITH A BUSINESS PLAN (OR EQUIVALENT) ON FILE WITH THE COUNTY HEALTH SERVICES DEPARTMENT, HAZARDOUS MATERIALS DIVISION. ALL REFUELING AND VEHICLE MAINTENANCE ACTIVITY SHALL BE LOCATED AWAY FROM THE CREEK CORRIDOR.
- IF PAVING AND STORM DRAIN IMPROVEMENTS ARE NOT COMPLETED BY OCTOBER 1st, TEMPORARY SILT AND DRAINAGE CONTROL FACILITIES SHALL BE INSTALLED TO CONTROL AND CONTAIN EROSION CAUSED SILT DEPOSITS AND TO PROVIDE FOR THE SAFE DISCHARGE OF STORM WATERS INTO EXISTING STORM WATER FACILITIES. DESIGN OF THESE FACILITIES MUST BE APPROVED BY THE BUILDING INSPECTION DEPARTMENT.

IMPROVEMENT PLAN PACIFIC RIDGE AT HALF MOON BAY CITY OF HALF MOON BAY, CALIFORNIA



SHEET INDEX MAP
SCALE: 1"=300'

- PRIOR TO COMMENCEMENT OF GRADING OR ANY OTHER CONSTRUCTION RELATED ACTIVITY, A QUALIFIED BIOLOGIST SHALL CONDUCT A SURVEY OF NESTING RAPTORS AT THE PROJECT SITE. IF WHITE-TAILED KITE, COOPER'S HAWK OR OTHER TREE-NESTING RAPTORS ARE FOUND, THE TREE(S) SHALL BE PROTECTED FROM DISTURBANCE DURING THE NESTING SEASON. A TEMPORARY FENCE SHALL BE PLACED 200 FEET FROM THE DRIP LINE OF SUCH TREES AND ALL GRADING OR CONSTRUCTION ACTIVITIES, INCLUDING STORAGE OF MATERIALS OR EQUIPMENT, SHALL BE EXCLUDED FROM THE FENCED AREA. IF GROUND-NESTING NORTHERN BARRIERS ARE FOUND, A TEMPORARY FENCE SHALL BE PLACED AROUND THE NEST AT A RADIUS OF 300 FEET AND ALL CONSTRUCTION SHALL BE EXCLUDED FROM THE FENCED AREA. DURING NESTING SEASON, THE BIOLOGIST SHALL MONITOR THE GRADING OR CONSTRUCTION SITE ON A BIWEEKLY (14 DAY) PERIOD. THE PROTECTION MEASURES SHALL REMAIN IN EFFECT UNTIL THE BIOLOGIST HAS VERIFIED THAT ADULTS HAVE ABANDONED THE NEST OR THE YOUNG HAVE LEFT THE NEST OR NEST TREE. (CDP 5.A.6.)
- PRIOR TO COMMENCEMENT OF GRADING OR ANY OTHER CONSTRUCTION RELATED ACTIVITY DURING THE YELLOWTHROAT NESTING SEASON, A QUALIFIED BIOLOGIST SHALL CONDUCT A SURVEY OF THE PROJECT SITE FOR NESTING SALT MARSH COMMON YELLOWTHROAT. A 100-FOOT FENCED TEMPORARY BUFFER SHALL BE ESTABLISHED AROUND ANY ACTIVE NEST TO EXCLUDE ANY CONSTRUCTION ACTIVITY, OR ANY STORAGE OF MATERIALS OR EQUIPMENT FROM SUCH BUFFER. THE FENCE SHALL REMAIN IN PLACE UNTIL AUGUST 1 OF THE YEAR OR UNTIL THE BIOLOGIST VERIFIES THAT THE NEST IS NO LONGER ACTIVE. (CDP 5.A.6.)
- IN THE EVENT THAT ADULT RAPTORS OR YELLOWTHROATS ABANDON A NEST DURING GRADING OR CONSTRUCTION, THE BIOLOGIST SHALL WITHIN 48 HOURS PREPARE AND SUBMIT A REPORT TO THE EXECUTIVE DIRECTOR STATING THE OBSERVATION AND THE BIOLOGIST'S PROFESSIONAL OPINION OF THE REASONS THEREFOR. (CDP 5.A.6.)
- AT THE END OF A GRADING OR CONSTRUCTION PHASE, OR THE END OF EACH YEAR'S NESTING SEASON DURING PROJECT CONSTRUCTION, WHICHEVER COMES FIRST, THE BIOLOGIST SHALL PREPARE AND SUBMIT TO THE EXECUTIVE DIRECTOR A MONITORING REPORT ON THE EFFECTIVENESS OF THIS CONDITION TO PROTECT ANY IDENTIFIED RAPTOR OR YELLOWTHROAT NEST AT THE PROJECT SITE. (CDP 5.A.6.)
- IF ANY SIGNIFICANT CULTURAL MATERIALS SUCH AS ARTIFACTS, HUMAN BURIALS, OR THE LIKE ARE ENCOUNTERED DURING CONSTRUCTION OPERATIONS, SUCH OPERATIONS SHALL CEASE WITHIN 10 FEET OF THE FIND, THE BUILDING DEPARTMENT AND/OR CORONER'S OFFICE SHALL BE NOTIFIED WITHIN 24-HOURS AND A SOPA-CERTIFIED ARCHAEOLOGIST CONTACTED AND RETAINED FOR FURTHER RECOMMENDATIONS. SIGNIFICANT CULTURAL MATERIALS INCLUDE, BUT NOT LIMITED TO, ABORIGINAL HUMAN REMAINS, CHIPPED STONE, GROUND STONE, SHELL AND BONE ARTIFACTS, CONCENTRATIONS OF FIRE CRACKED ROCK, ASH, CHARCOAL, SHELL, BONE, AND HISTORIC FEATURES SUCH AS PRIVES OR BUILDING FOUNDATIONS.
- IF ARCHAEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING, TRENCHING OR OTHER EXCAVATION, EARTHWORK WITHIN 30 YARDS OF THESE MATERIALS SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHAEOLOGIST WHO IS CERTIFIED BY THE SOCIETY OF CALIFORNIA ARCHAEOLOGY (SCA) AND/OR THE SOCIETY OF PROFESSIONAL ARCHAEOLOGY (SOPA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES, IF THEY ARE DEEMED NECESSARY. (VTM 34)
- IF FOSSILS OF POTENTIAL SCIENTIFIC SIGNIFICANCE ARE FOUND DURING CONSTRUCTION, GRADING WITHIN 50 FEET OF THE FOSSIL LOCATION SHALL BE SUSPENDED UNTIL THE SIGNIFICANCE OF THE FIND HAS BEEN EVALUATED BY A PALEONTOLOGIST. THE CITY SHALL BE NOTIFIED WITHIN 24 HOURS AND ADVISED OF THE EVALUATION OF THE PALEONTOLOGIST. RESUMPTION OF WORK IN THE FOSSIL AREA SHALL REQUIRE WRITTEN APPROVAL FROM THE BUILDING DEPARTMENT.
- ANY DEVIATION FROM APPROVED PLANS REQUIRES PRIOR APPROVAL OF THE CITY BUILDING INSPECTOR.
- ALL REVISIONS TO THIS PLAN MUST BE REVIEWED BY THE BUILDING INSPECTION DEPARTMENT PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON REVISED PLANS STAMPED AND DISTRIBUTED BY THE BUILDING DEPARTMENT PRIOR TO THE WORK BEING ADVANCED AND ACCEPTANCE OF THE WORK AS COMPLETE.
- THE CONTRACTOR SHALL PROVIDE THE NECESSARY SAFETY TESTING OF EQUIPMENT AND PERSONNEL.
- CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF THE DIVISION OF INDUSTRIAL SAFETY PERTAINING TO "CONFINED SPACES". ANY MANHOLES, CULTVERT, DROP INLET OR TRENCH WHICH COULD CONTAIN AIR WHICH IS NOT READILY VENTILATED MAY BE CONSIDERED A "CONFINED SPACE".
- THE CONTRACTOR SHALL NOT DESTROY ANY PERMANENT SURVEY POINTS WITHOUT THE CONSENT OF THE ENGINEER. ANY PERMANENT MONUMENTS OR POINTS DESTROYED SHALL BE REPLACED IN KIND BY A LICENSED ENGINEER OR SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE CITY BUILDING INSPECTOR AND THE DESIGN ENGINEER UPON DISCOVERY OF ANY FIELD CONFLICTS.
- ANY DEVIATIONS OR CHANGES IN THESE PLANS WITHOUT OFFICIAL APPROVAL OF THE DESIGN ENGINEER SHALL ABSOLVE THE DESIGN ENGINEER OF ANY AND ALL RESPONSIBILITY OF SAID DEVIATION OR CHANGE.
- CONTRACTOR TO NOTIFY THE CITY BUILDING DEPARTMENT 48-HOURS PRIOR TO START OF WORK.
- APPLICANT SHALL COMPLY WITH ALL RULES, REGULATIONS AND PROCEDURES OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEMS.
- ENERGY EFFICIENT OPERATIONS DURING CONSTRUCTION SHALL BE ENCOURAGED BY REQUIRING CONTRACTORS TO TUNE AND MAINTAIN ALL INTERNAL COMBUSTION ENGINE-DRIVEN EQUIPMENT ACCORDING TO MANUFACTURERS' SPECIFICATIONS. CONTRACTORS SHALL ALSO RESTRICT TRUCK IDLING TO LESS THAN FIVE MINUTES AS FEASIBLE.
- THESE PLANS SHOW EXISTING FEATURES INCLUDING BUT NOT LIMITED TO TREES, UTILITIES, AND STRUCTURES THAT MAY BE AFFECTED BY THE CONSTRUCTION OR PLACEMENT OF THE PROPOSED ENGINEERED IMPROVEMENTS. THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE ENGINEER IF THERE ARE ANY EXISTING FEATURES, WHETHER SHOWN OR NOT SHOWN ON THESE PLANS, THAT COULD IN ANY WAY BE IN POTENTIAL CONFLICT WITH THE DESIGN OF THESE PLANS. ALL WORK WITHIN THE VICINITY OF A POTENTIAL CONFLICT SHALL CEASE UNTIL AN ADEQUATE SOLUTION IS DETERMINED BY THE ENGINEER AND APPROVED BY THE PUBLIC WORKS DEPARTMENT.
- ALL UTILITIES SHALL BE INSTALLED UNDERGROUND PRIOR TO CONSTRUCTION OF CURB, GUTTER, AND SIDEWALKS. (VTM 6.)

IMPROVEMENT NOTES

- ALL INLETS OVER 2.5" IN DEPTH SHALL BE PROVIDED WITH STEPS. THE STEPS SHALL BE INTEGRALLY CAST INTO THE WALLS OF THE INLET WHETHER PRECAST OR FIELD CAST IN ACCORDANCE WITH CALTRANS SPECIFICATIONS. THE STEPS SHALL BE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC STEPS (OR EQUIVALENT).
- ALL DRAINAGE STRUCTURES SHALL BE SHAPED AND SLOPED TO DRAIN.
- EXISTING CURB AND SIDEWALK WITHIN THE PROJECT LIMITS DAMAGED OR DISPLACED, EVEN THOUGH PROPOSED TO BE REMOVED, SHALL BE REPAIRED OR REPLACED EVEN IF DAMAGE OR DISPLACEMENT OCCURRED PRIOR TO ANY WORK PERFORMED BY THE CONTRACTOR.
- STRUCTURAL DESIGN OF PAVEMENT SHALL BE BASED ON SOILS TESTS RESULTS, THE CITY OF HALF MOON BAY'S TRAFFIC DIVISION'S TRAFFIC INDEX AND STANDARD GRAVEL EQUIVALENT CALCULATIONS.
- ALL TRAFFIC STRIPING AND MARKINGS SHALL BE THERMOPLASTIC UNLESS THE PLANS DESIGNATE THE USE OF "TRAFFIC PAINT."
- SHOULD THE CONTRACTOR REQUEST A CHANGE OF MATERIALS, THE CONTRACTOR SHALL PAY FOR THE COST INVOLVED IN PLAN CHANGES AND PROCESSING THE CHANGE THROUGH THE APPROPRIATE AGENCY.
- TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. ALL TRAFFIC CONTROL AND DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
- IN CONFORM PAVING AREAS, IF A FULL STREET STRUCTURAL SECTION IS NOT FOUND AT THE APPARENT EDGE OF PAVEMENT, FURTHER STREET EXCAVATION WILL BE REQUIRED UNTIL THE FULL SECTION IS ENCOUNTERED. PAVING CONFORMS SHALL BE MADE AT A SMOOTHLY TRIMMED BUT JOINT. DO NOT OVERLAP EXISTING PAVEMENT.
- ALL TRENCH BACKFILL, WHICH LIES WITHIN EITHER EXISTING OR NEW ROADWAYS, SHALL CONFORM TO THE CURRENT CITY OF HALF MOON BAY REQUIREMENTS FOR TRENCH BACKFILL.
- THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPING AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURB AND GUTTER, GRADING, ETC. AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS, OR HAZARDOUS CONDITIONS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL NECESSARY UTILITY RELOCATIONS WITH THE APPROPRIATE UTILITY AGENCY.

- ALL UNDERGROUND FACILITIES SHALL BE INSTALLED PRIOR TO THE CONSTRUCTION OF CURBS AND FINAL PREPARATION OF SUBGRADE AND PLACEMENT OF BASE MATERIALS. CURBS AND GUTTERS SHALL BE COMPLETE PRIOR TO THE PLACEMENT OF STREET BASE MATERIAL, UNLESS OTHERWISE APPROVED.
- THE ENGINEER ASSUMES NO RESPONSIBILITY FOR FINAL GRADE OF CONCRETE UNLESS FORMS ARE CHECKED PRIOR TO POURING.
- STANDARD STREET NAME SIGNS AND STOP SIGNS SHALL BE INSTALLED AS DESIGNATED ON THESE PLANS. MOUNT STREET NAME SIGNS ON ELECTROLITERS WHERE POSSIBLE.
- ALL DRAIN INLETS SHALL BE MARKED WITH "NO DUMPING - DRAINS TO OCEAN" PER DETAIL SD-11.
- ALL PEDESTRIAN IMPROVEMENTS SHALL CONFORM WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS AND THE AMERICANS WITH DISABILITIES ACT.
- REINFORCED CONCRETE PIPE CLASS III (RCP) SHALL BE USED TO CONSTRUCT ALL STORM DRAIN FACILITIES UNLESS OTHERWISE NOTED ON THESE PLANS.
- CITY OF HALF MOON BAY STANDARD DETAILS, INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
SI-2 CURBS & GUTTERS
SI-3 SIDEWALK DETAILS
SI-5 RESIDENTIAL DRIVEWAY APPROACH WITH CURB
SI-10 STREET SIGN FULLY REFLECTORIZED
SI-17 GENERAL NOTES FOR STREET PLANS
SS-1 TRENCH REPAIR DETAIL
SS-4 SEWER MANHOLE COVER
SS-5 ECCENTRIC MANHOLE DETAIL
SS-7 CLEANOUT TO GRADE
SS-11 SANITARY SEWER & WATER MAIN SEPARATION DETAILS
SS-13 SEWER LATERAL DETAIL
SS-17 STANDARD SEWER LATERAL CLEANOUT
SD-9 PIPE COVER REQUIREMENTS-CP, RCP, ACP, VCP, & CAST IN PLACE
SD-10 PIPE BEDDING AND INITIAL BACKFILL
SD-11 NO DUMPING PUBLIC NOTICE DETAIL
- SAN MATEO COUNTY STANDARD DETAILS, INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
B-1 TYPE GO INLET
B-5 TRAFFIC INLET
B-6-9 DROP INLET
D-3 TYPICAL SECTIONS
- COASTSIDE COUNTY WATER DISTRICT STANDARD DETAILS, INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
GATE VALVE VERTICAL THRUST BLOCKS
VALVE LOCATION & MARKING 3/4" DOMESTIC SERVICE WITH 1" FIRE SERVICE
FIRE HYDRANT 3/4"- 2" FIRE SERVICE CONNECTION
HORIZONTAL THRUST BLOCKS

COASTSIDE COUNTY WATER DISTRICT
APPROVED: _____ DATE: _____

HALF MOON BAY FIRE PROTECTION DISTRICT
APPROVED: _____ DATE: _____
FIRE MARSHAL

CITY OF HALF MOON BAY
APPROVED: _____ DATE: _____
CITY ENGINEER

| SHEET INDEX | |
|-------------|---|
| NO. | DESCRIPTION |
| 1 | COVER SHEET |
| 2 | STREET SECTIONS AND DETAILS |
| 3 | INDEX MAP |
| 4 | SEA MIST WAY STATION 0+00-9+00 |
| 5 | SEA MIST WAY STATION 9+00-18+00 |
| 6 | SEA MIST WAY STATION 18+00-END |
| 7 | PUMPKIN HOLLOW COURT |
| 8 | RED HAWK COURT |
| 9 | CEDAR GROVE COURT |
| 10 | SUMMER CREEK COURT |
| 11 | SEA MIST COURT STORM DRAIN LINE "D" |
| 12 | SANITARY SEWER LINE "C" STORM DRAIN LINE "B" |
| 13 | WATERMAIN LOTS 9, 14, 19, & 26 |
| 14 | AREA DRAIN LINES 1 AND 2 |
| 15 | AREA DRAIN LINES 3, 4 AND 5 |
| 16 | SIGNING AND STRIPING |
| 17 | STORM DRAIN DETAILS |
| 18 | JACK AND BORE DETAILS |

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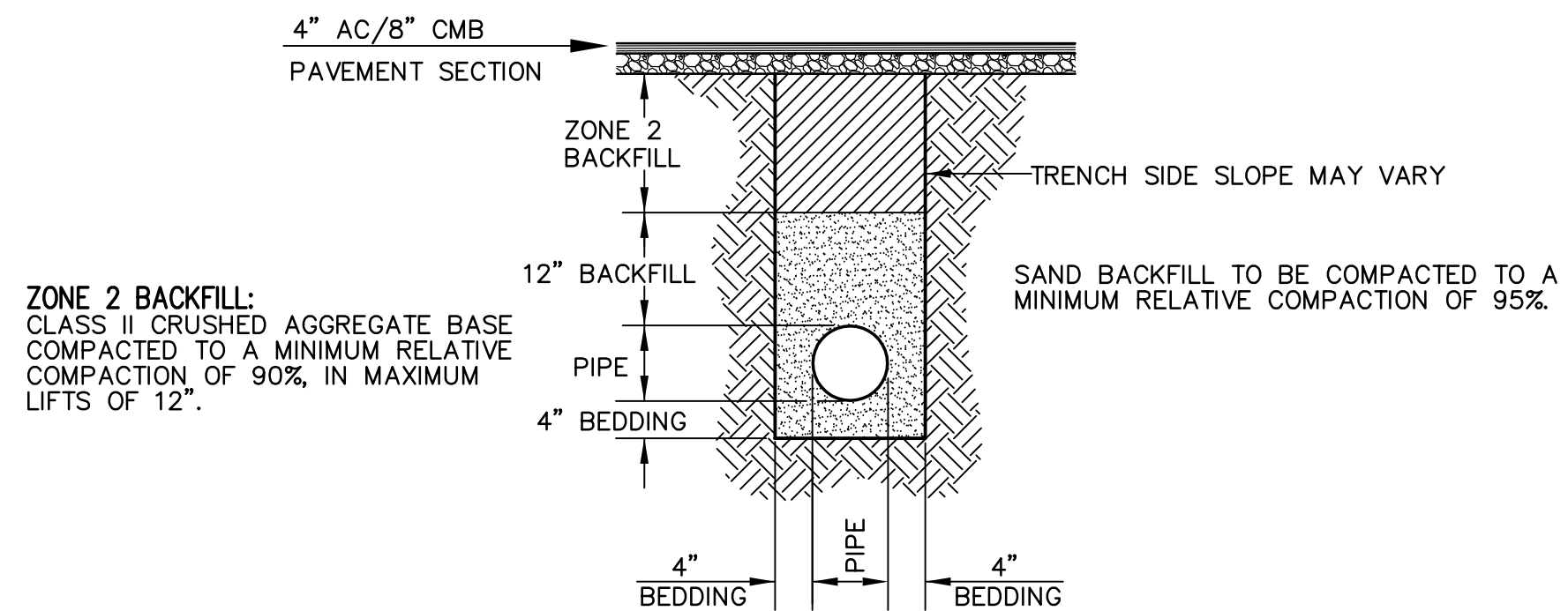
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| AUGUST 2009 | | | | |
| SCALE: HORIZAS VERT. NOTED | | | | |
| DESIGNED | LG | | | |
| DRAWN | LG | | | |
| PROJ. ENGR. DLF | | | | |
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AILANTO PROPERTIES
PACIFIC RIDGE
CITY OF HALF MOON BAY CALIFORNIA

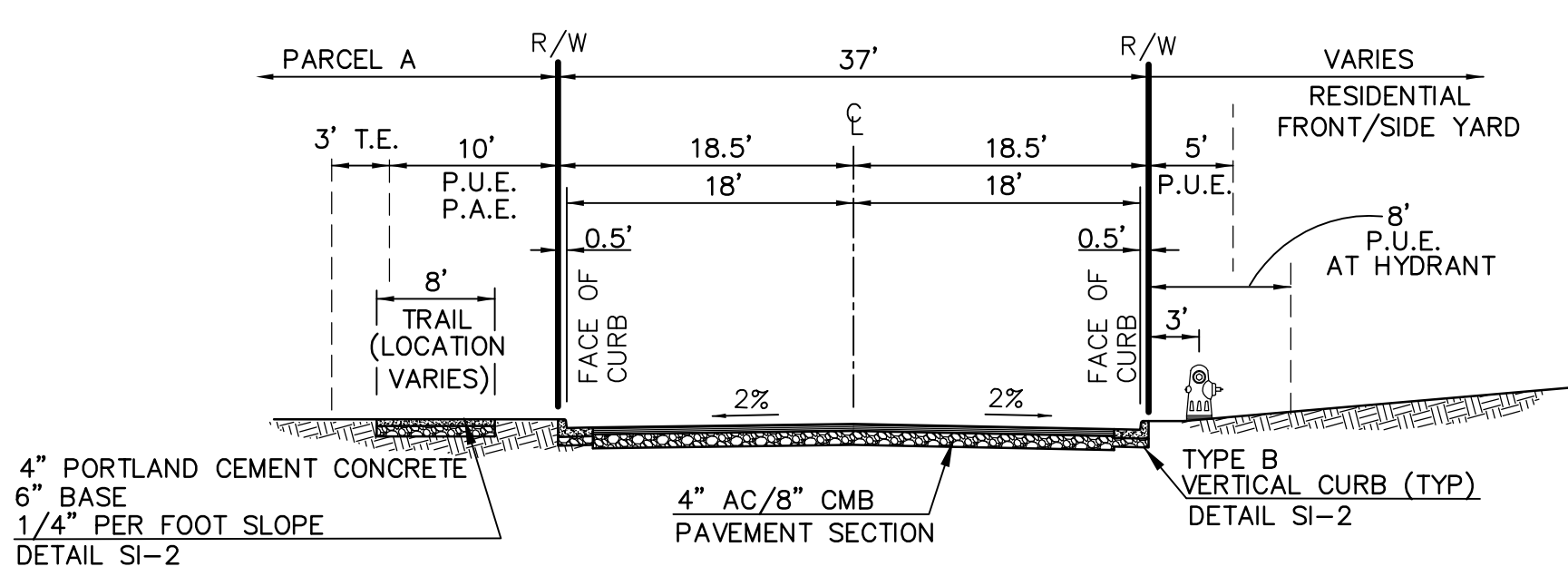
IMPROVEMENT PLAN
COVER SHEET
SHEET **1**
OF 18
DK JOB NO. **08-1003-20**



NOTE:
 1. INSTALLATION OF PIPING AND APPURTENANCES SHALL BE IN CONFORMANCE WITH COASTSIDE COUNTY WATER DISTRICT STANDARD INSTALLATION DETAILS AND SPECIAL INSTALLATION DETAILS PREPARED BY THE CCWD FOR THIS PROJECT.
 2. SAND FOR USE IN BEDDING AND BACKFILLING WATER PIPELINES AND SERVICE TUBING SHALL CONFORM TO THE REQUIREMENTS CONTAINED IN THE CURRENT EDITION OF "STANDARD SPECIFICATIONS" ISSUED BY CALTRANS SECTION 19. USE OF BEACH SAND WILL NOT BE PERMITTED.

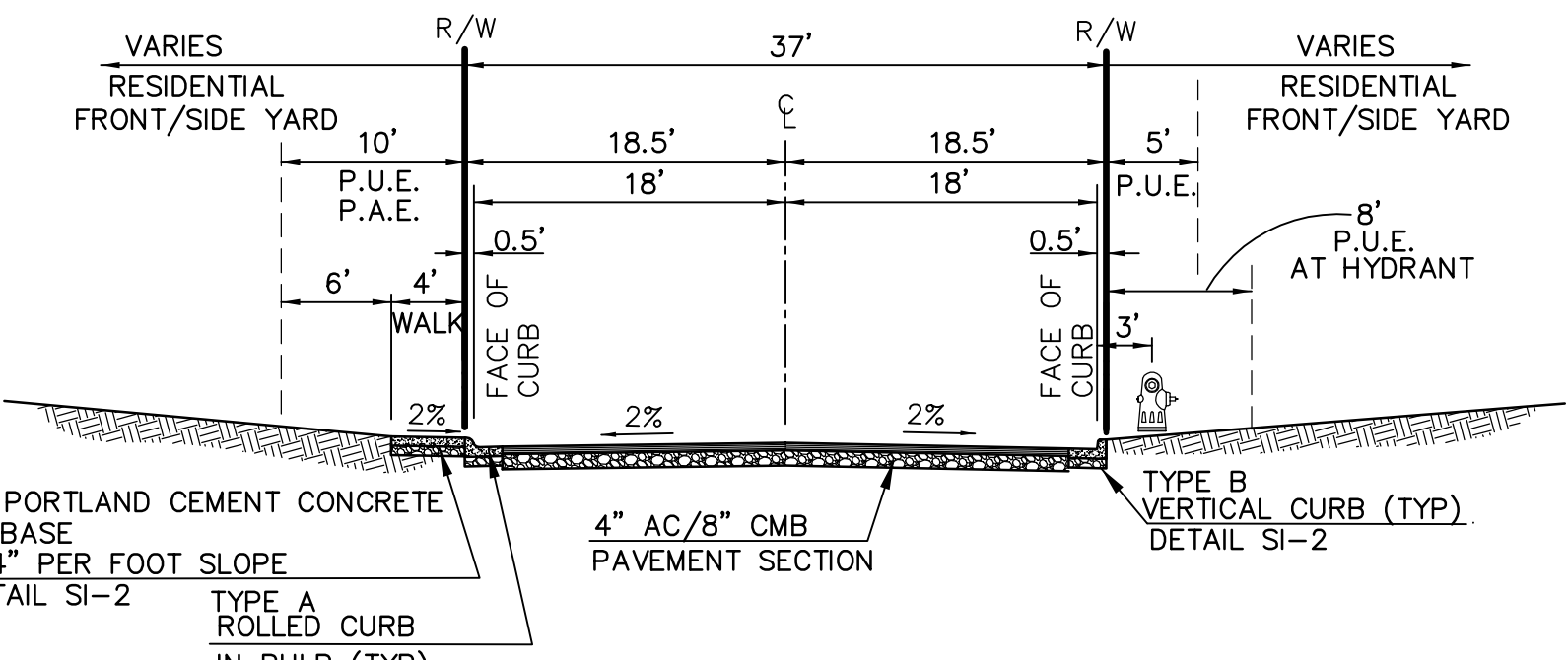
CCWD TRENCH BEDDING AND BACKFILL DETAIL

NOT TO SCALE



SEA MIST WAY SECTION 2+00 - 12+00

NOT TO SCALE



SEA MIST WAY SECTION 12+00 - END

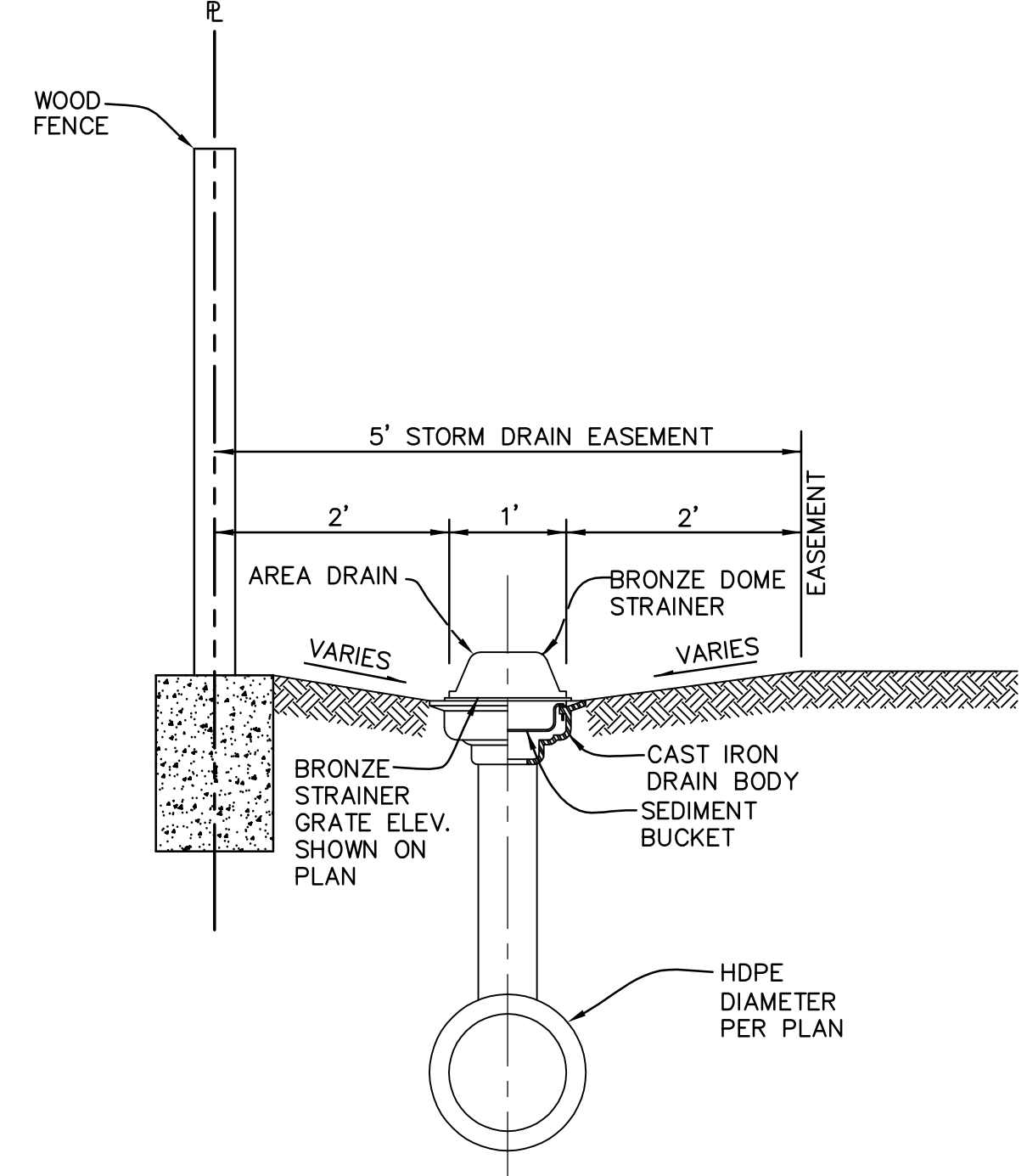
NOT TO SCALE

| PAVEMENT DESIGN CHART | | | | |
|-----------------------|----|-----|----|-----|
| STREET | TI | "R" | AC | CMB |
| SEA MIST WAY | 5 | 4" | 8" | 8" |
| PUMPKIN HOLLOW COURT | 5 | 4" | 8" | 8" |
| RED HAWK COURT | 5 | 4" | 8" | 8" |
| CEDAR GROVE COURT | 5 | 4" | 8" | 8" |
| SUMMER CREEK COURT | 5 | 4" | 8" | 8" |
| SEA MIST COURT | 5 | 4" | 8" | 8" |

NOTE:
 CONSTRUCT STANDARD SIZE CONC. LINED V-DITCH AS LOCATED ON PLAN.

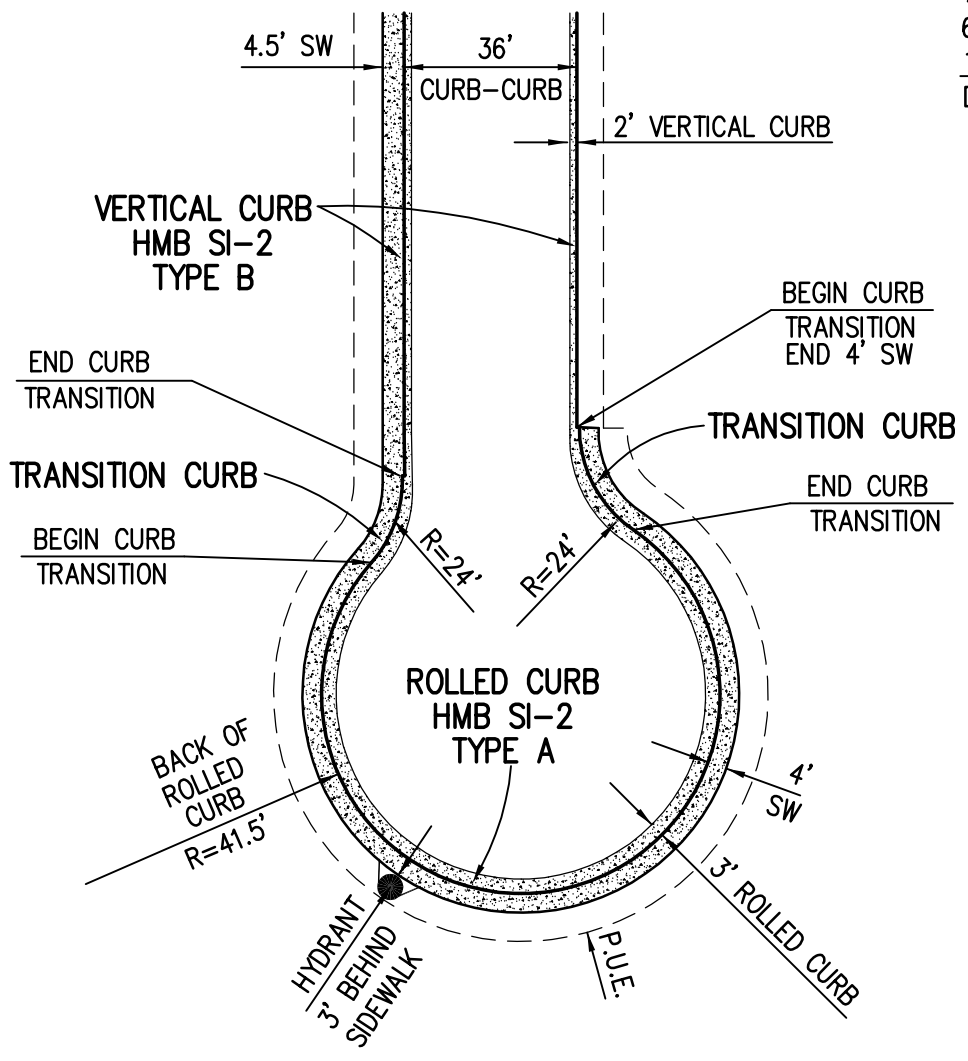
CONCRETE LINED V-DITCH DETAIL

NOT TO SCALE



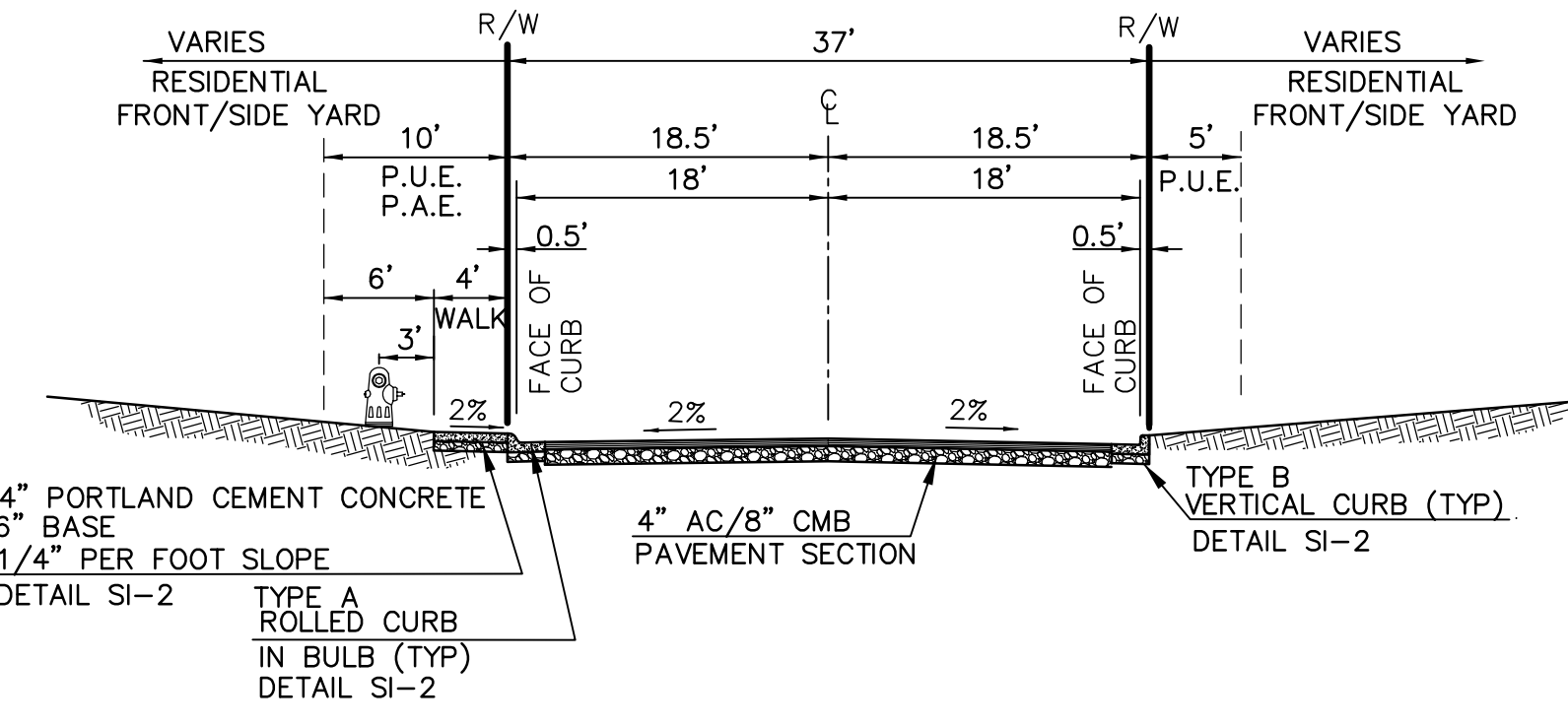
YARD DRAIN DETAIL

NOT TO SCALE



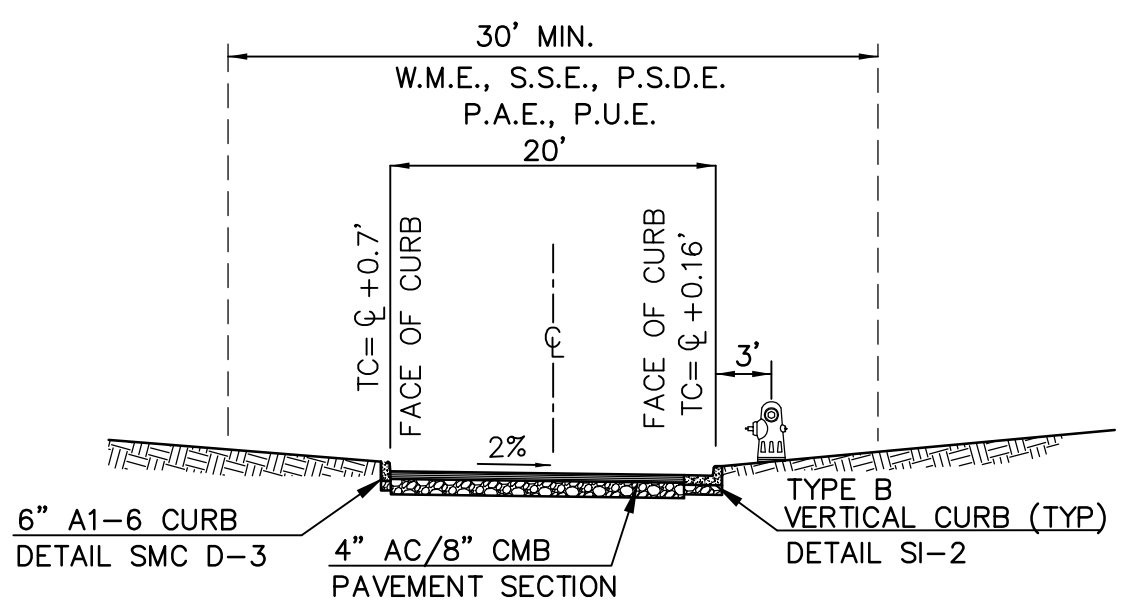
TYPICAL BULB DETAIL

NOTE TO SCALE



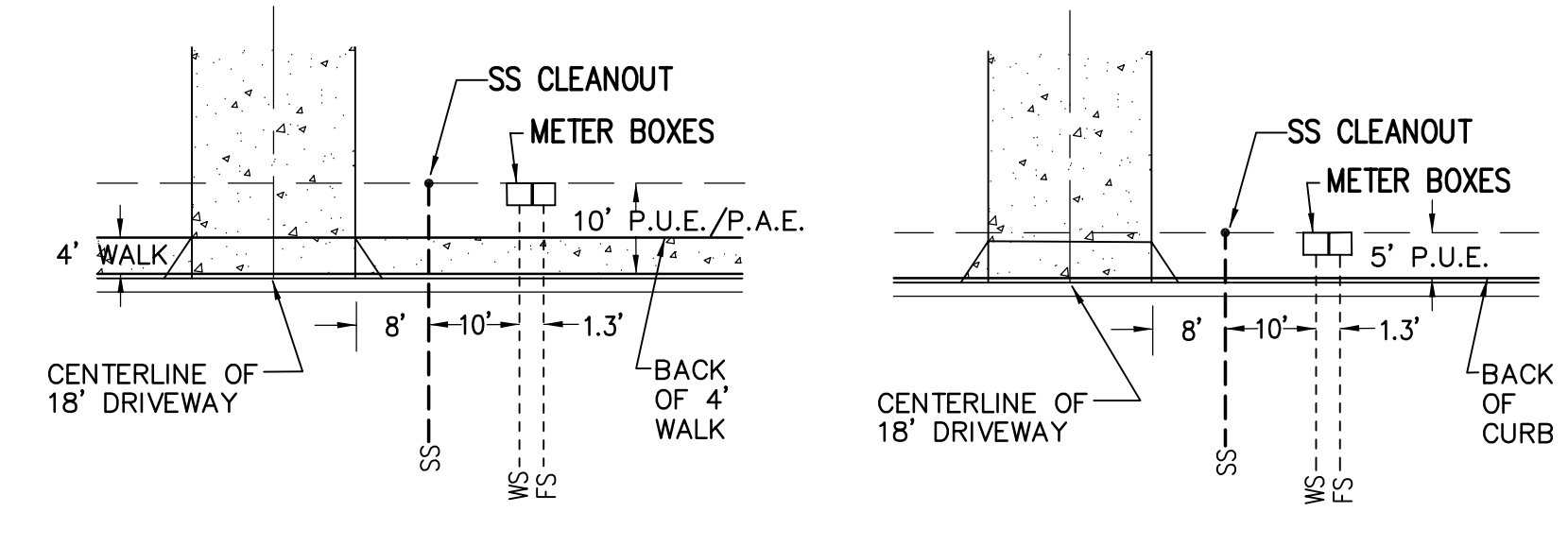
TYPICAL COURT SECTION

NOT TO SCALE



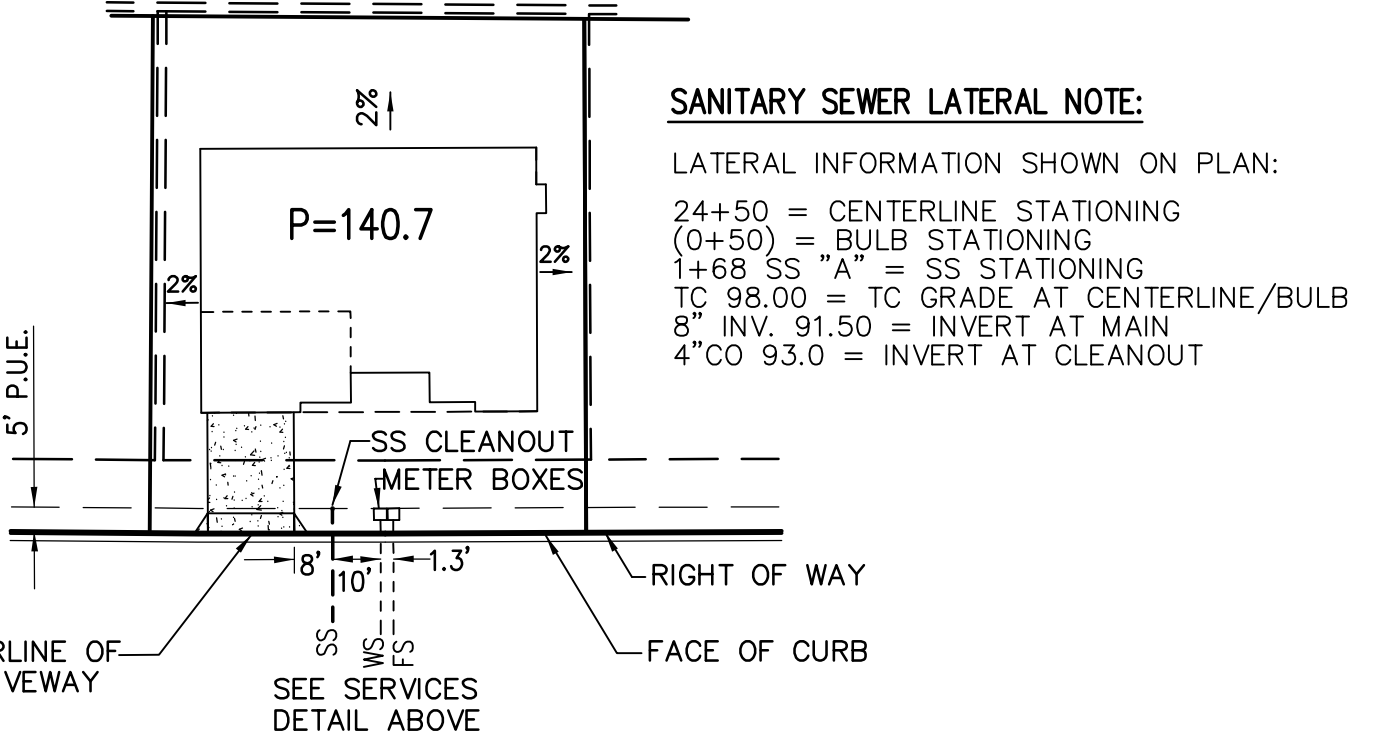
SEA MIST COURT SECTION

NOT TO SCALE



SERVICES DETAIL

NOT TO SCALE



SANITARY SEWER LATERAL NOTE:
 LATERAL INFORMATION SHOWN ON PLAN:
 24+50 = CENTERLINE STATIONING
 (0+50) = BULB STATIONING
 1+68 SS "A" = SS STATIONING
 TC 98.00 = TC GRADE AT CENTERLINE/BULB
 8" INV. 91.50 = INVERT AT MAIN
 4" CO 93.0 = INVERT AT CLEANOUT

NOTE:
 INSTALL TWO (MIN.) OR THREE 3" PVC CURB DRAINS PER LOT. INSTALL ONE AT HIGH SIDE OF DRIVEWAY, AND ONE AT THE LOW SIDE OF THE LOT TO PROVIDE FOR POSITIVE DRAINAGE OF ALL AREAS OF THE PAD. CONTRACTOR MAY INSTALL CURB DRAIN AT BACK OF PAD ON CORNER LOTS IF NECESSARY.

TYPICAL LOT DETAIL

NOT TO SCALE

LEGEND

- | EXISTING | PROPOSED | |
|-----------|-----------------|--|
| --- | --- | SUBDIVISION BOUNDARY |
| --- | --- | RIGHT OF WAY |
| --- | --- | LOT LINE |
| --- | --- | CENTERLINE |
| --- | --- | FACE OF CURB & GUTTER |
| --- | --- | FACE OF CURB & GUTTER WITH SIDEWALK |
| --- | --- | ROLLED CURB & GUTTER WITH SIDEWALK |
| --- | --- | CONCRETE LINED V-DITCH |
| EX. SD | HW 24" SD CB FI | STORM DRAIN CATCH BASIN, MANHOLE, FIELD INLET, HEADWALL, RIP RAP |
| EX. 8" SS | SSMH 8" SS SSRI | SANITARY SEWER MANHOLE, SANITARY SEWER LINE, SANITARY SEWER LATERAL, & RODDING INLET |
| EX. 8" W | HYD LAT BO ARV | WATER MAIN, TEE, GATE VALVE, FIRE HYDRANT, WATER SERVICE, AIR RELEASE VALVE |
| | 2' WALL | RETAINING WALL |
| | CL 18" DW | STREET MONUMENT |
| | | CURB RETURN NUMBER |
| | | ELECTROLIER |
| | | CENTERLINE DRIVEWAY (WIDTH AS SHOWN) |
| | | TRAFFIC SIGN |
| | | STREET NAME SIGN |
| | HGL 123.45 | 10 YEAR HYDRAULIC GRADE LINE |
| | (2) | CURVE DATA NUMBER |

ABBREVIATIONS

- | | |
|-------------|--|
| AD | AREA DRAIN |
| AC | ASPHALT CONCRETE |
| ARV | AIR RELEASE VALVE |
| BEG. | BEGIN |
| CB | CATCH BASIN |
| CCWD | COASTSIDE COUNTY WATER DISTRICT |
| CL | CENTERLINE |
| C.I.P.P. | CAST-IN-PLACE PIPE |
| CLR | CLEAR |
| CMB | CRUSHED MISCELLANEOUS BASE |
| CO | CLEANOUT |
| CONC | CONCRETE |
| DG | DECOMPOSED GRANITE |
| DIP | DUCTILE IRON PIPE |
| DW | DRIVEWAY |
| EC/BC | END OF CURVE/BEGINNING OF CURVE |
| EL | ELEVATION |
| EX | EXISTING |
| FC/CR | FACE OF CURB/CURB RETURN |
| FI | FIELD INLET |
| FS | 1" FIRE SERVICE CONNECTION |
| GB | GRADE BREAK |
| GR | GRATE |
| HDPE | HIGH DENSITY POLYETHYLENE |
| HGL | HYDRAULIC GRADE LINE |
| HMB | CITY OF HALF MOON BAY |
| HW | HEADWALL |
| ID | INNER DIAMETER |
| INV./FL | INVERT/FLOWLINE |
| LT | LEFT |
| LF | LINEAR FOOT |
| L.P. / H.P. | LOW POINT/HIGH POINT |
| MH | MANHOLE |
| P=120.4 | PAD ELEVATION |
| P.A.E. | PUBLIC ACCESS EASEMENT |
| PCC | POINT OF CONCAVE CURVE |
| PVC | POINT INTERSECTION VERTICAL CURVE |
| PCVC | POINT OF CONCAVE VERTICAL CURVE |
| PRC | POINT OF REVERSE CURVE |
| PRVC | POINT OF REVERSE VERTICAL CURVE |
| P.S.D.E. | PRIVATE STORM DRAIN EASEMENT |
| P.U.E. | PUBLIC UTILITY EASEMENT |
| PVC | POLYVINYL CHLORIDE PIPE |
| RT | RIGHT |
| RP | RADIUS POINT |
| R/W, RW | RIGHT OF WAY |
| S | SLOPE |
| SD | STORM DRAIN |
| SMC | SAN MATEO COUNTY |
| S.O. | SIDE OPENING |
| SF | SQUARE FOOT |
| SS | SANITARY SEWER |
| S.S.E. | SANITARY SEWER EASEMENT |
| SSMH | SANITARY SEWER MANHOLE |
| S.T.U. | STORMWATER TREATMENT UNIT |
| SW | SIDEWALK |
| TC 456.00 | TOP OF CURB ELEVATION |
| T.E. | TRAIL EASEMENT |
| TI | TRAFFIC INDEX |
| TW / BW | TOP OF WALL/BOTTOM OF WALL AT FINISH GRADE |
| TYP. | TYPICAL |
| VC | VERTICAL CURVE |
| U.T.C. | UNDER TRAIL CROSSING |
| W/H/L | WIDTH/HEIGHT/LENGTH |
| WM | WATER MAIN |
| W.M.E. | WATER MAIN EASEMENT |
| WS | WATER SERVICE (DOMESTIC) |
| (0+50) | BULB STATIONING |

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| AUGUST 2009 | | | | | | |
| SCALE: HORIZAS VERT. NOTED | | | | | | |
| DESIGNED | LG | | | | | |
| DRAWN | LG | | | | | |
| PROJ. ENGR. DLF | | | | | | |
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AILANTO PROPERTIES
PACIFIC RIDGE
 CITY OF HALF MOON BAY CALIFORNIA

IMPROVEMENT PLAN
STREET SECTIONS
AND DETAILS
 SHEET **2**
 OF 18
 DK JOB NO. 08-1003-20

PARCEL A



WATER SCHEMATIC MAP

SCALE: 1"=300'

STORM DRAIN SCHEDULE

| NUMBER | STRUCTURE | DETAIL |
|----------|---------------|-----------------------|
| CB #1-21 | INLET TYPE GO | SMC DETAILS B-1 & B-5 |
| FI #1-7 | DROP INLET | SMC DETAILS B-6 - B-9 |
| HW #1-3 | HEADWALL | DETAIL SHOWN |
| AD #1-21 | AREA DRAIN | DETAIL SHOWN |

SANITARY SEWER SCHEDULE

| DESCRIPTION | NUMBER | QUANTITY |
|----------------------------|------------|----------|
| HMB DETAIL SS-5 | SSMH #1-22 | 22 |
| 8" PVC SEWER MAIN (SDR 35) | | 5,215 LF |
| 4" PVC LATERAL | 63 | 1,883 LF |

WATERMAIN SCHEDULE

| DESCRIPTION | NUMBER | QUANTITY |
|----------------------------|--------|----------|
| FIRE HYDRANTS | | 12 |
| 8" DIP WATERMAIN MAIN | | 6,533 LF |
| DOMESTIC WATER SERVICE | 63 | EACH |
| 1" FIRE SERVICE CONNECTION | 63 | EACH |
| 14" CASING PIPE | | 172 LF |

SANITARY SEWER NOTES

- ALL REFERENCES TO "DISTRICT" IN THESE GENERAL NOTES MEAN THE APPROPRIATE CITY SEWER OR SEWER AUTHORITY MID-COASTSIDE (SAM).
- THE APPROVAL OF THESE PLANS BY THE CITY SHALL BE INTERPRETED TO MEAN THAT THE SANITARY SEWER DESIGN SHOWN ON THESE PLANS MEET THE CITY'S STANDARDS. THE CITY'S APPROVAL IN NO WAY GUARANTEES ANY OTHER ASPECT OF THIS PLAN OR ITS ACCURACY RELATIVE TO ACTUAL FIELD CONDITIONS.
- THE CONTRACTOR SHALL CONTACT THE CITY AT (650)726-8260 TWO (2) WORKING DAYS IN ADVANCE OF BEGINNING ANY SANITARY SEWER WORK. THE CONTRACTOR SHALL THEREAFTER KEEP THE INSPECTOR FOR THE CITY INFORMED OF SCHEDULE FOR SANITARY SEWER WORK.
- ALL SANITARY SEWER WORK CONSTRUCTED WITHOUT INSPECTION BY THE CITY OR SAM SHALL BE REMOVED AND RECONSTRUCTED WITH INSPECTION.
- THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT FORTY-EIGHT (48) HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES BEFORE BEGINNING ANY EXCAVATING.
- THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED BY THE CITY BEFORE BEGINNING ANY SANITARY SEWER WORK.
- UPON COMPLETION OF CONSTRUCTION A COMPLETE SET OF REPRODUCIBLE MYLAR "AS-CONSTRUCTED" PLANS SHALL BE PROVIDED TO THE CITY.
- SANITARY SEWER SERVICE SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL USE WHATEVER MEANS ARE NECESSARY (E.G. PUMPS, ETC.) TO MAINTAIN THIS SERVICE DURING CONSTRUCTION.
- PRIOR TO COMMENCING ANY SANITARY SEWER WORK IN OFF-SITE EASEMENTS, THE CONTRACTOR SHALL PROVIDE THE CITY WITH ADEQUATE EVIDENCE THAT ALL AFFECTED PROPERTY OWNERS (AND TENANTS WHERE APPLICABLE) WERE NOTIFIED WELL IN ADVANCE OF THE DATE OF WORK IN THESE EASEMENTS WAS TO BEGIN AND THAT THEY HAVE UPDATED THAT NOTICE IN A TIMELY MANNER WHEN THOSE DATES HAVE CHANGED.
- ALL SANITARY SEWER WORK SHALL CONFORM TO THE CURRENT DETAILS AND SPECIFICATIONS OF THE CITY OF HALF MOON BAY AND SAM.



COASTSIDE COUNTY WATER DISTRICT NOTES

- THE DEVELOPER SHALL SUBMIT NAME AND LICENSE NUMBER OF GENERAL CONTRACTOR FOR THE PROJECT, NAMES AND LICENSE NUMBERS OF SUBCONTRACTORS, IF ANY, WHO WILL CONSTRUCT WATER IMPROVEMENTS. ALL CONTRACTORS CONSTRUCTING WATER IMPROVEMENTS MUST HOLD A VALID CLASS A OR C-34 CONTRACTORS LICENSE IN THE STATE OF CALIFORNIA.
- PRIOR TO WATER LINE CONSTRUCTION, ALL ROAD AND EASEMENT AREAS WHERE WATER LINES ARE TO BE INSTALLED MUST BE STAKED AND ROUGH GRADED.
- THE COASTSIDE COUNTY WATER DISTRICT (THE DISTRICT) SHALL OBSERVE AND INSPECT FACILITIES SOLELY TO PROTECT THE INTEREST OF THE DISTRICT AND TO DETERMINE IF COMPLETED WORK IS ACCEPTABLE TO THE DISTRICT AND CAN BE INCORPORATED INTO THE DISTRICT SYSTEM. NO RESPONSIBILITY IS ASSUMED FOR THE CONTRACTOR'S OPERATIONS OR HIS SAFETY PRACTICES.
- IT WILL BE THE RESPONSIBILITY OF THE SUBDIVIDER OR HIS REPRESENTATIVE TO NOTIFY THE DISTRICT MANAGER AT LEAST TWO (2) WORKING DAYS IN ADVANCE OF THE PROPOSED STARTING DATE, AND TO ASCERTAIN THAT THE DISTRICT INSPECTOR IS AT THE SITE OF THE WORK WHEN CONSTRUCTION BEGINS. IF CONSTRUCTION IS NOT CONTINUOUS, THE DISTRICT MANAGER SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE AS TO WHEN CONSTRUCTION WILL RESUME. ANY WORK PERFORMED WITHOUT KNOWLEDGE OR CONSENT OF THE DISTRICT INSPECTOR IS SUBJECT TO REJECTION BY THE DISTRICT.
- CHANGES TO THE PROJECT THAT ARE NECESSARY TO THE WORK DURING CONSTRUCTION SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL PRIOR TO THE INCORPORATION IN THE WORK.
- CONNECTIONS TO OR MODIFICATIONS TO THE EXISTING SYSTEM SHALL ONLY BE MADE BY A CONTRACTOR PREVIOUSLY APPROVED BY THE DISTRICT.

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| NO. | BY | DATE | REVISION | dk APPROV. | AGENCY APPROV. |
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| | | | | | |



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 CITY OF HALF MOON BAY CALIFORNIA

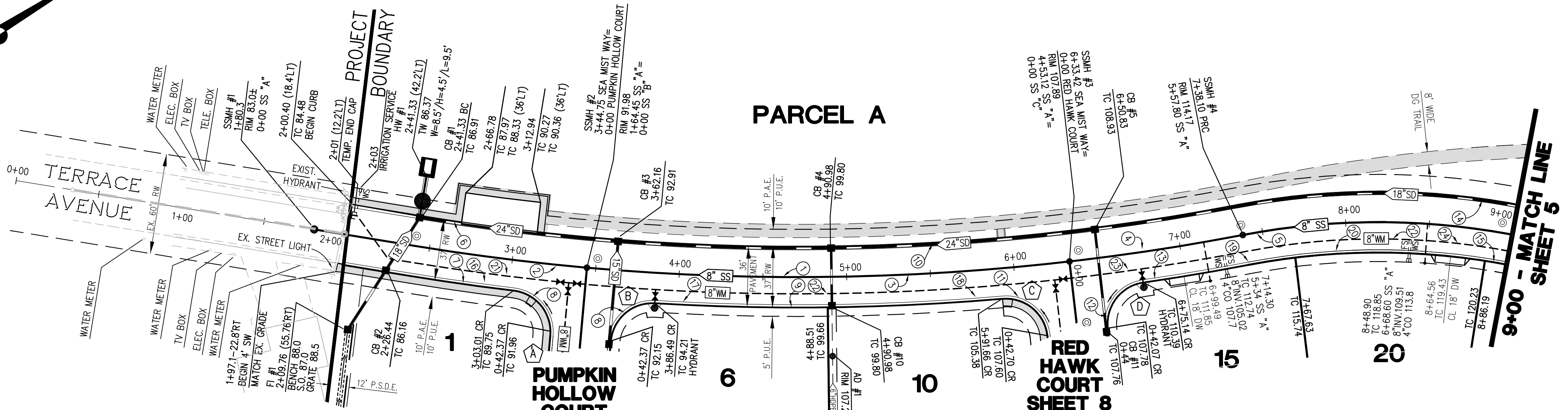
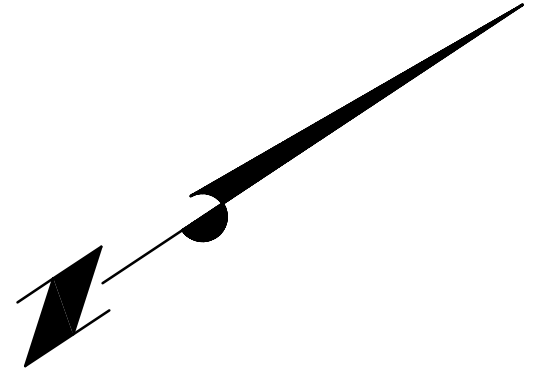
IMPROVEMENT PLAN
INDEX MAP

SHEET **3**
 OF 18
 DK JOB NO. **08-1003-20**

EXP. DATE 9-30-10

PRELIMINARY - NOT FOR CONSTRUCTION

| NO. | RADIUS | DELTA | LENGTH | DESC. |
|-----|----------|-----------|---------|--------|
| 1 | 1415.00' | 20°06'54" | 496.77' | CL (T) |
| 2 | 1415.00' | 04°11'16" | 103.42' | CL/SS |
| 3 | 1415.00' | 11°41'19" | 288.67' | CL/SS |
| 4 | 1415.00' | 04°14'19" | 104.68' | CL/SS |
| 5 | 431.26' | 49°45'16" | 374.50' | CL/SS |
| 6 | 1397.00' | 01°01'50" | 25.13' | FC |
| 7 | 1433.00' | 02°29'52" | 62.47' | FC |
| 8 | 25.00' | 88°18'36" | 38.53' | FC |
| 9 | 1433.00' | 08°18'28" | 207.78' | FC |
| 10 | 1397.00' | 17°12'55" | 419.75' | FC |
| 11 | 25.00' | 88°45'38" | 38.73' | FC |
| 12 | 25.00' | 87°54'46" | 38.36' | FC |
| 13 | 1433.00' | 02°32'57" | 63.76' | FC |
| 14 | 449.26' | 49°45'16" | 390.13' | FC |
| 15 | 413.26' | 34°03'24" | 245.64' | FC |
| 16 | 1432.20' | 04°52'33" | 121.88' | SD |
| 17 | 1432.20' | 05°13'58" | 130.80' | SD |
| 18 | 1432.20' | 06°27'21" | 161.37' | SD |
| 19 | 1432.20' | 03°33'02" | 88.75' | SD |
| 20 | 414.06' | 33°46'47" | 244.12' | SD |
| 21 | 1425.00' | 03°47'09" | 94.16' | WM |
| 22 | 1425.00' | 11°41'19" | 290.71' | WM |
| 23 | 1425.00' | 04°38'26" | 115.41' | WM |
| 24 | 421.26' | 39°00'31" | 286.81' | WM |

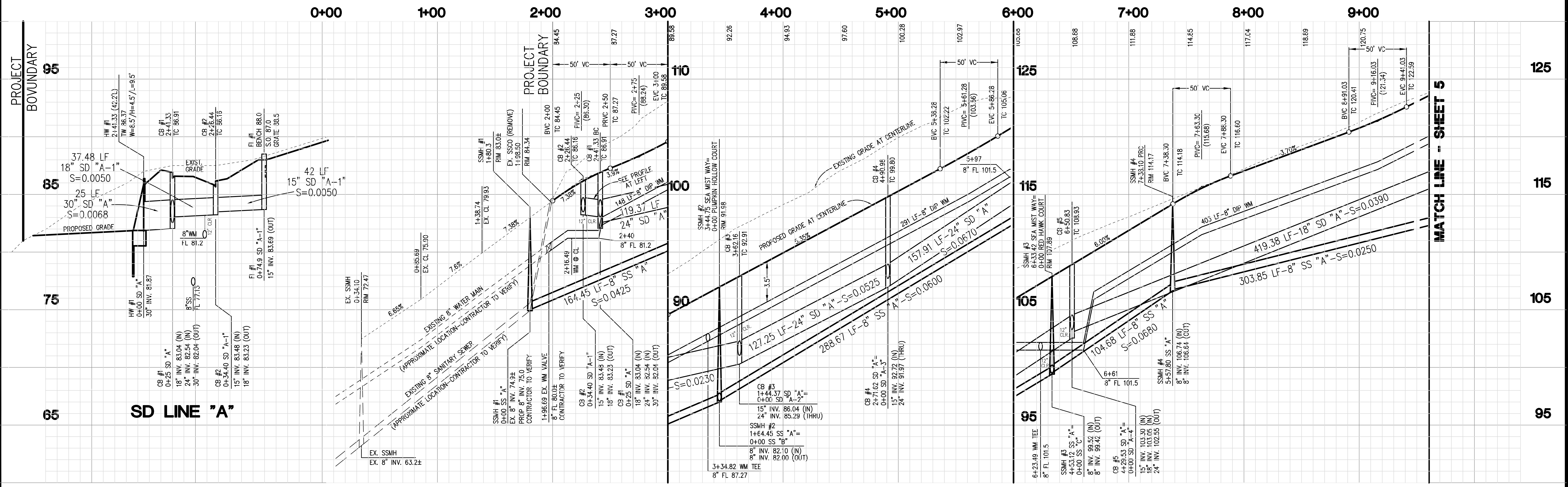


| STORM DRAIN SCHEDULE | | |
|----------------------|---------------|------------------------|
| NUMBER | STRUCTURE | OFFSET FROM CENTERLINE |
| CB #1-21 | INLET TYPE GO | 17.20' |
| FI #1 | DROP INLET | 37.98' |
| HW #1 | HEADWALL | 42.20' |

WATER MAIN NOTE:
 CONTRACTOR TO PROVIDE TEMPORARY END CAP FOR LEAKAGE TESTING AND DISINFECTION. LOCATE APPROXIMATELY 4' FROM EXISTING GATE VALVES. FOLLOWING SATISFACTORY TESTING AND DISINFECTION, REMOVE END CAP AND INSTALL NEW PIPE TO COMPLETE THE WATER MAIN CONNECTION.

SEA MIST WAY

CENTERLINE = TOP OF CURB GRADE



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| DATE | NO. | BY | DATE | REVISION | dk APPROV. | AGENCY APPROV. |
|---------------------|-----|----|------|----------|------------|----------------|
| AUGUST 2009 | | | | | | |
| SCALE: HORIZ 1"=40' | | | | | | |
| VERT. 1"=4' | | | | | | |
| DESIGNED | LG | | | | | |
| DRAWN | LG | | | | | |
| PROJ. ENGR. | DLF | | | | | |
| 081003IP.DWG | | | | | | |



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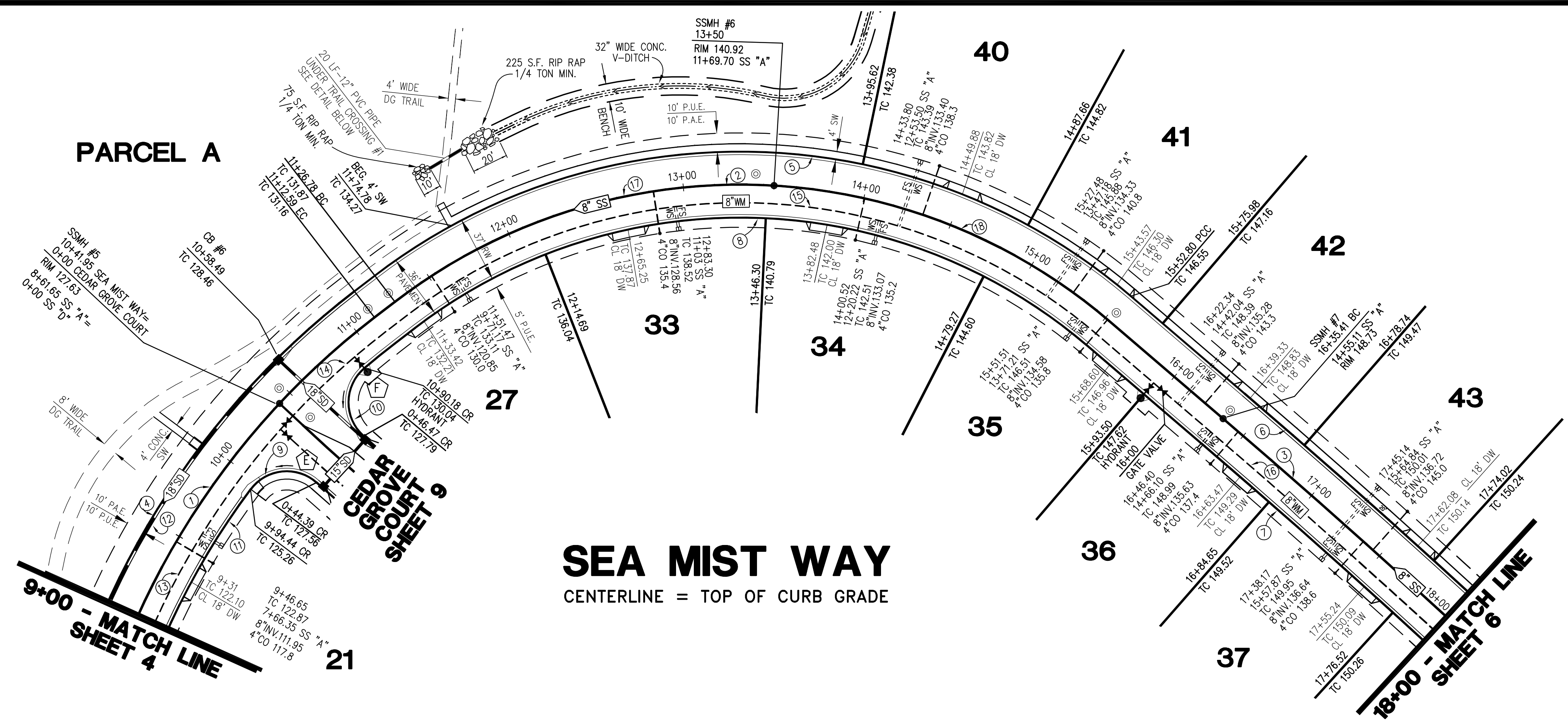
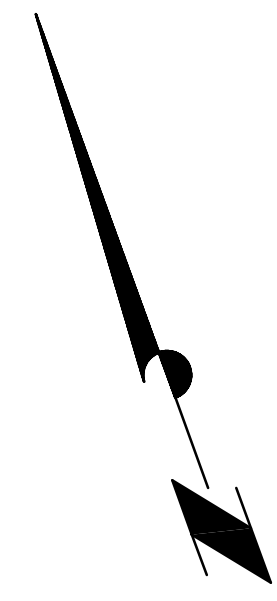
AILANTO PROPERTIES
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 CITY OF HALF MOON BAY CALIFORNIA

IMPROVEMENT PLAN
SEA MIST WAY
 STATION 0+00 - 9+00

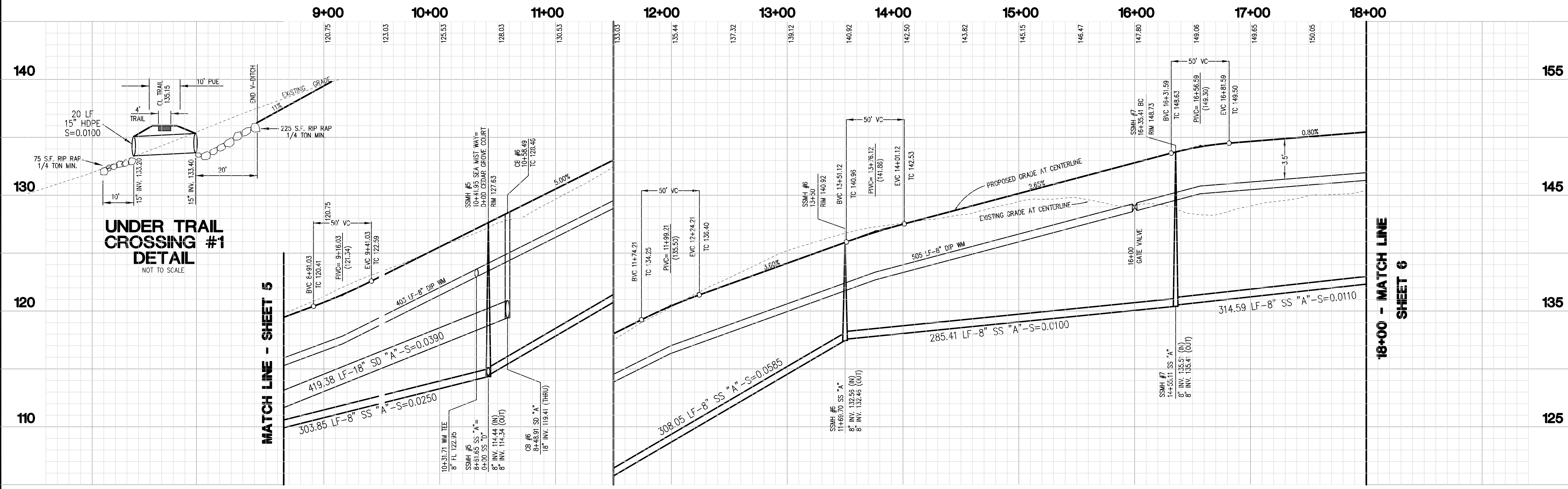
| | |
|------------|------------|
| SHEET | 4 |
| OF 18 | |
| DK JOB NO. | 08-1003-20 |

PRELIMINARY - NOT FOR CONSTRUCTION

| NO. | RADIUS | DELTA | LENGTH | DESC. |
|-----|----------|-----------|---------|-------|
| 1 | 431.26' | 49°45'16" | 374.50' | CL/SS |
| 2 | 312.50' | 78°06'37" | 426.03' | CL/SS |
| 3 | 4782.49' | 09°15'19" | 772.54' | CL/SS |
| 4 | 449.26' | 49°45'16" | 390.13' | FC |
| 5 | 330.50' | 78°06'37" | 450.56' | FC |
| 6 | 4800.49' | 09°15'19" | 775.45' | FC |
| 7 | 4764.49' | 04°12'38" | 350.13' | FC |
| 8 | 294.50' | 78°06'37" | 401.49' | FC |
| 9 | 25.00' | 97°47'23" | 42.67' | FC |
| 10 | 25.00' | 95°01'48" | 41.46' | FC |
| 11 | 413.26' | 34°03'24" | 245.64' | FC |
| 12 | 448.46' | 42°34'01" | 333.18' | SD |
| 13 | 421.26' | 39°00'31" | 286.81' | WM |
| 14 | 421.26' | 10°44'45" | 79.01' | WM |
| 15 | 302.50' | 78°06'37" | 412.39' | WM |
| 16 | 4772.49' | 08°06'42" | 675.67' | WM |
| 17 | 312.50' | 40°55'40" | 223.23' | SS |
| 18 | 312.50' | 37°10'57" | 202.80' | SS |



| STORM DRAIN SCHEDULE | | |
|----------------------|---------------|------------------------|
| NUMBER | STRUCTURE | OFFSET FROM CENTERLINE |
| CB #1-21 | INLET TYPE GO | 17.20' |



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|------------------------------------|-----|----|------|----------|------------|----------------|
| DATE AUGUST 2009 | NO. | BY | DATE | REVISION | dk APPROV. | AGENCY APPROV. |
| SCALE: HORIZ 1"=40' VERT. 1"=4' | | | | | | |
| DESIGNED LG | | | | | | |
| DRAWN LG | | | | | | |
| PROJ. ENGR. DLF | | | | | | |
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IMPROVEMENT PLAN
SEA MIST WAY
STATION 9+00 - 18+00

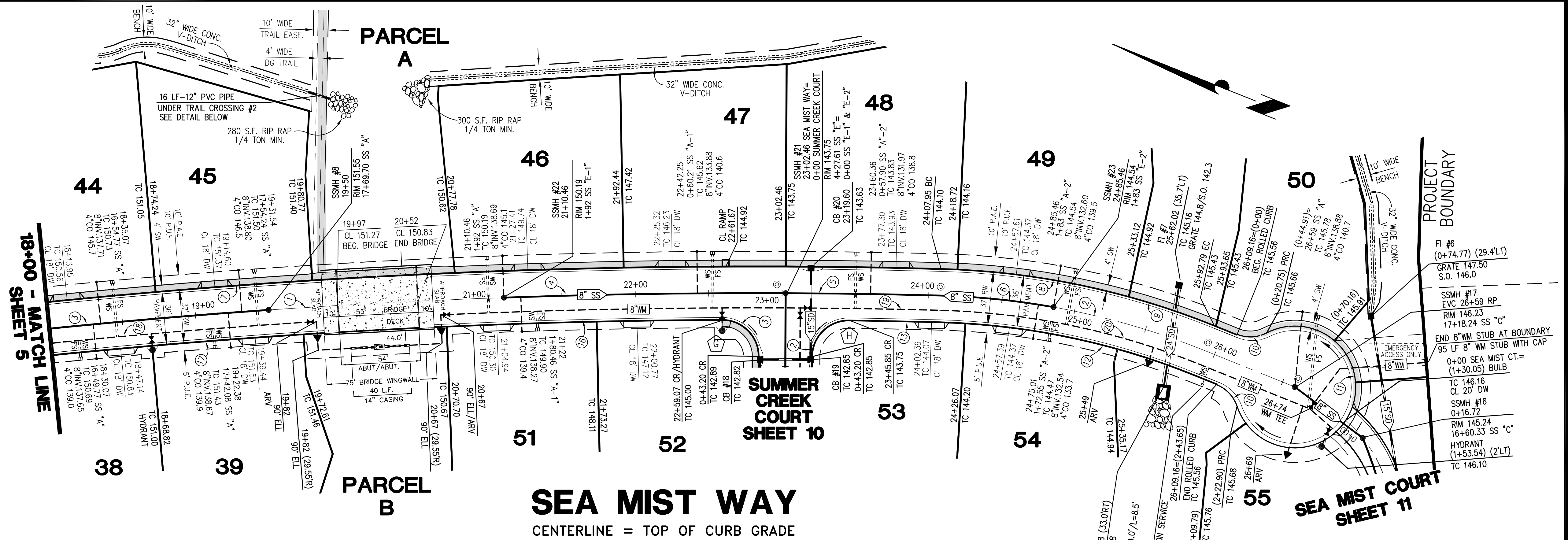
SHEET **5**
OF 18
DK JOB NO. **08-1003-20**

EXP. DATE 9-30-10

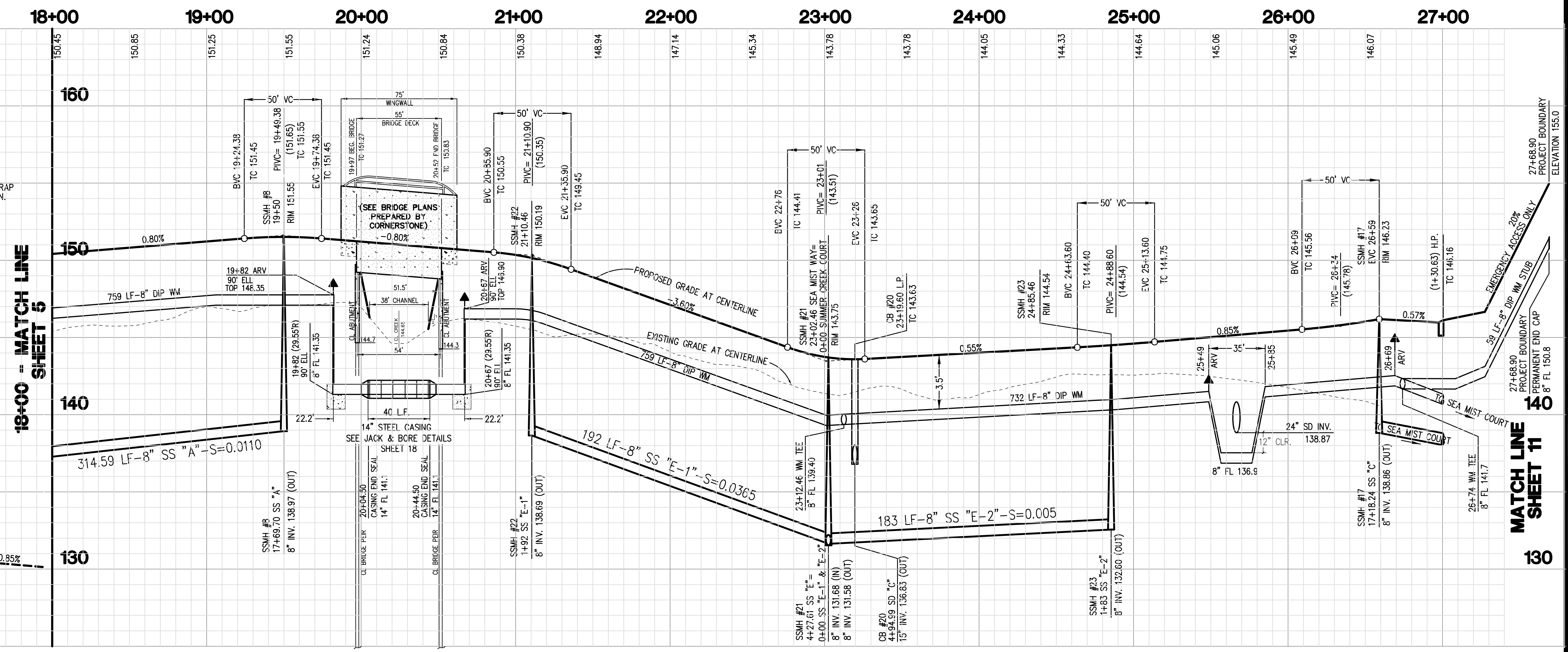
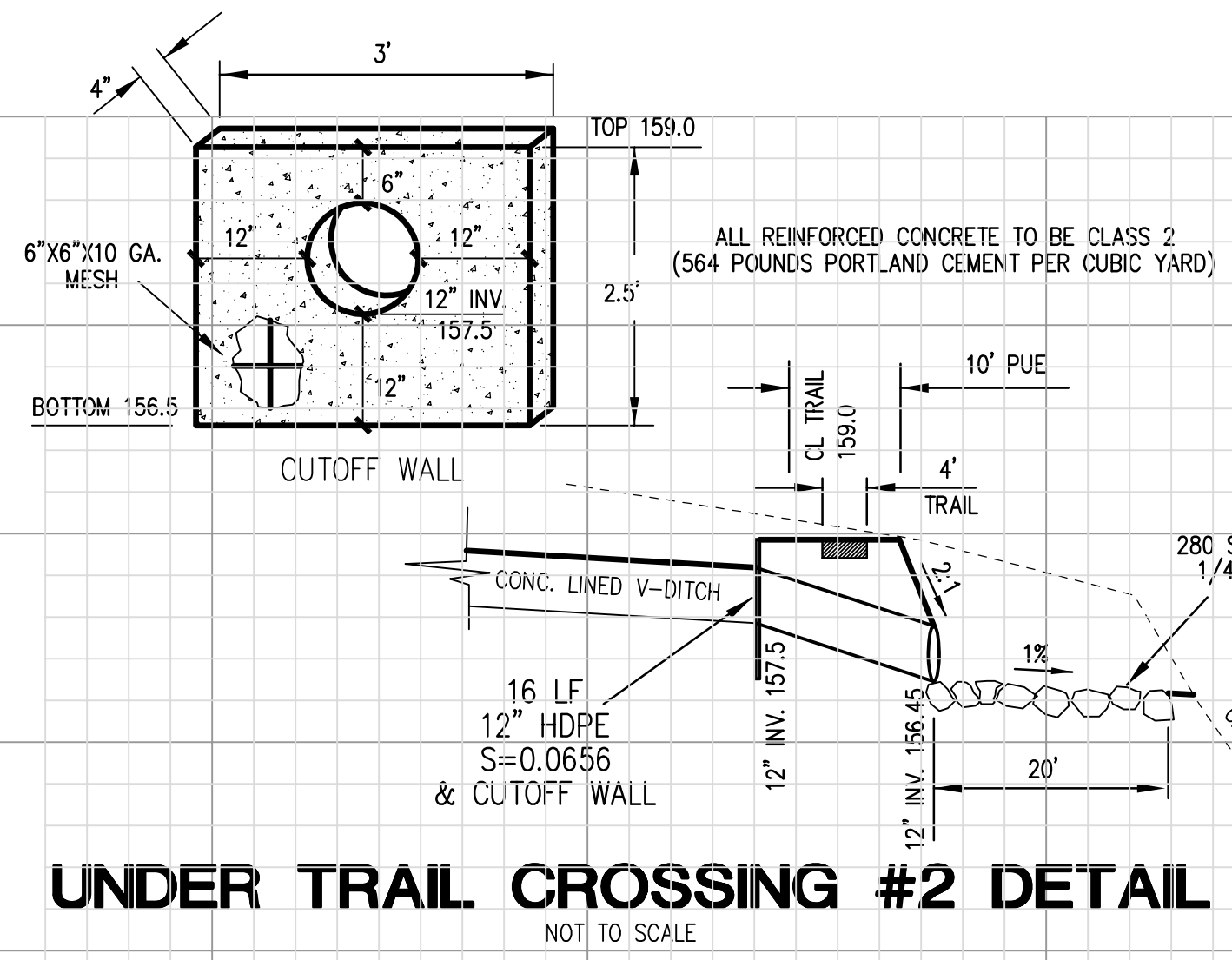
PRELIMINARY - NOT FOR CONSTRUCTION

| NO. | RADIUS | DELTA | LENGTH | DESC. |
|-----|----------|-----------|---------|-------|
| 1 | 4782.49' | 09°15'19" | 772.54' | CL |
| 2 | 517.50' | 20°27'55" | 184.84' | CL |
| 3 | 4782.49' | 03°46'09" | 314.59' | SS |
| 4 | 4782.49' | 02°18'01" | 192.00' | SS |
| 5 | 4782.49' | 01°15'50" | 105.50' | SS |
| 6 | 517.49' | 08°34'53" | 77.51' | SS |
| 7 | 4800.49' | 09°15'19" | 775.45' | FC |
| 8 | 535.50' | 13°50'08" | 129.31' | FC |
| 9 | 535.50' | 06°37'47" | 61.96' | FC |
| 10 | 24.00' | 49°32'41" | 20.75' | FC |
| 11 | 41.50' | 27°05'22" | 202.15' | FC |
| 12 | 499.50' | 20°27'55" | 178.41' | FC |
| 13 | 4764.49' | 00°44'38" | 61.86' | FC |
| 14 | 25.00' | 90°31'12" | 39.50' | FC |
| 15 | 25.00' | 90°31'11" | 39.50' | FC |
| 16 | 4764.49' | 02°21'33" | 196.18' | FC |
| 17 | 4764.49' | 04°12'38" | 350.13' | FC |
| 18 | 4772.49' | 08°06'42" | 675.67' | WM |
| 19 | 4772.49' | 01°08'37" | 95.26' | WM |
| 20 | 507.50' | 20°27'55" | 181.27' | WM |

| STORM DRAIN SCHEDULE | | |
|----------------------|---------------|------------------------|
| NUMBER | STRUCTURE | OFFSET FROM CENTERLINE |
| CB #1-21 | INLET TYPE GO | 17.20' |
| FI #6 | DROP INLET | 70.91' |
| FI #7 | DROP INLET | 35.74' |
| HW #3 | HEADWALL | 33.03' |



SEA MIST WAY
CENTERLINE = TOP OF CURB GRADE



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| DATE | NO. | BY | DATE | REVISION | dk APPROV. | AGENCY APPROV. |
|---------------------|-----|----|------|----------|------------|----------------|
| AUGUST 2009 | | | | | | |
| SCALE: HORIZ 1"=40' | | | | | | |
| VERT. 1"=4' | | | | | | |
| DESIGNED | LG | | | | | |
| DRAWN | LG | | | | | |
| PROJ. ENGR. | DLF | | | | | |
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IMPROVEMENT PLAN
SEA MIST WAY
STATION 18+00 - END

SHEET **6**
OF 18
DK JOB NO. **08-1003-20**

EXP. DATE 9-30-10

PRELIMINARY - NOT FOR CONSTRUCTION

PARCEL A

PARCEL D

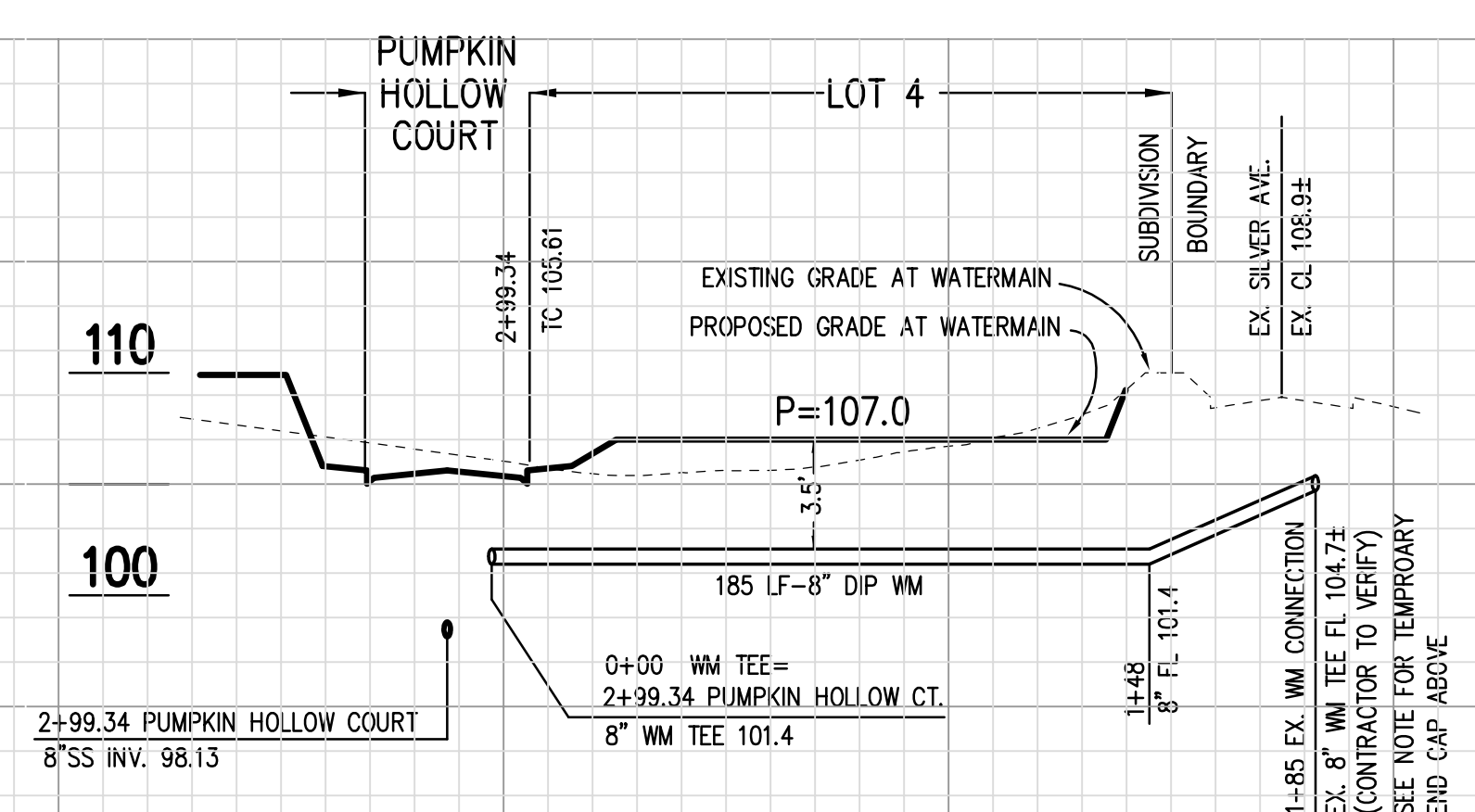
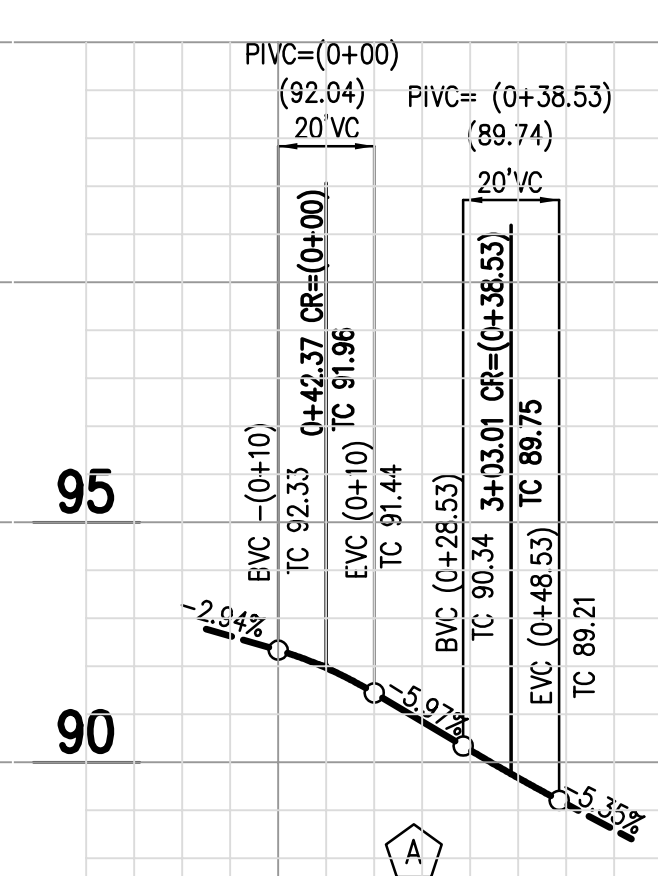
| STORM DRAIN SCHEDULE | | |
|----------------------|---------------|------------------------|
| NUMBER | STRUCTURE | OFFSET FROM CENTERLINE |
| CB #1-21 | INLET TYPE GO | 17.20' |

| CURVE DATA TABLE | | | | |
|------------------|---------|-----------|---------|-------|
| NO. | RADIUS | DELTA | LENGTH | DESC. |
| 1 | 817.50' | 05°17'34" | 75.52' | CL/SS |
| 2 | 799.50' | 05°17'34" | 73.85' | FC |
| 3 | 24.00' | 49°32'41" | 20.75' | FC |
| 4 | 41.50' | 27°05'22" | 202.15' | FC |
| 5 | 835.50' | 05°17'34" | 77.18' | FC |
| 6 | 25.00' | 88°18'36" | 38.53' | FC |
| 7 | 827.50' | 05°17'34" | 76.44' | WM |

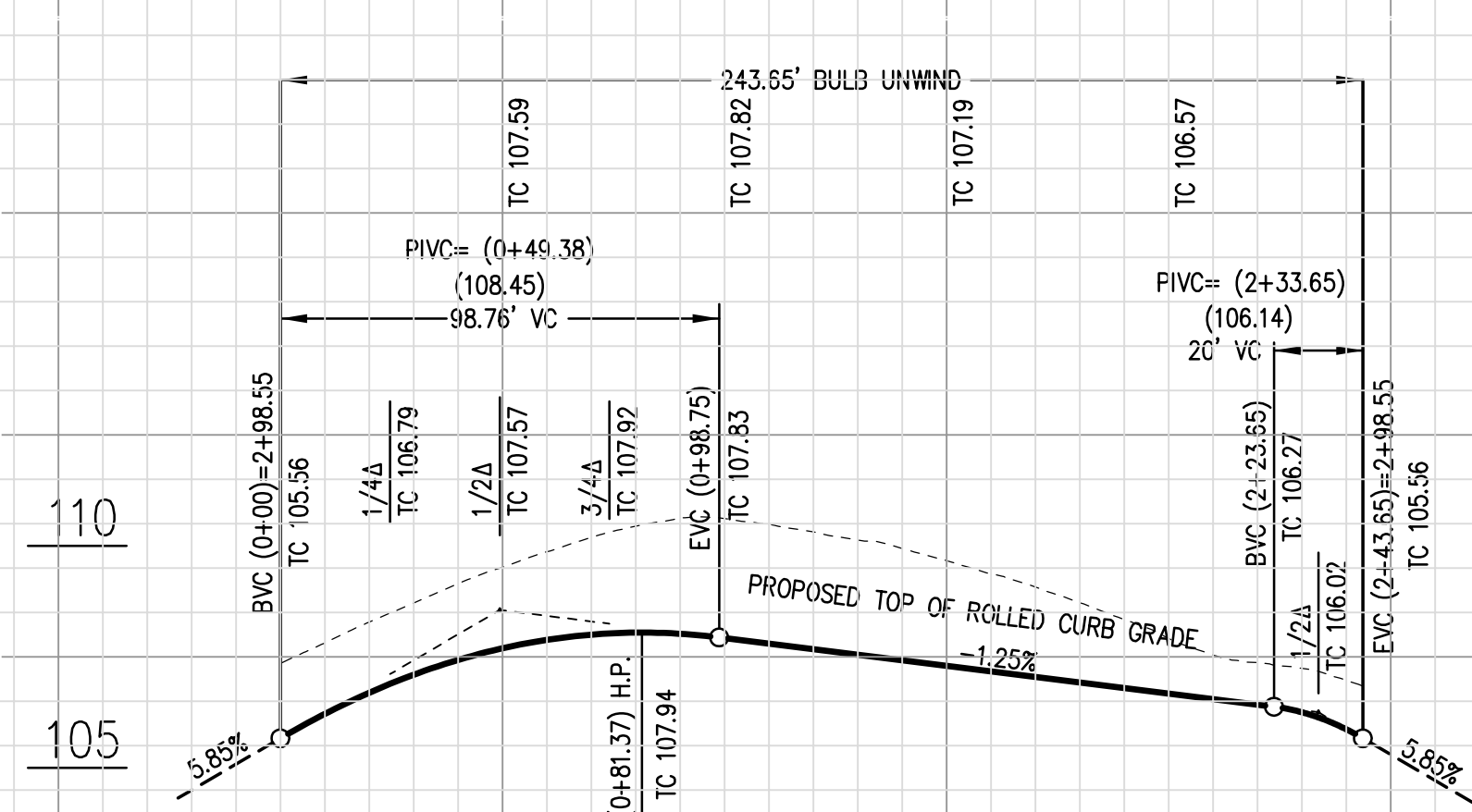
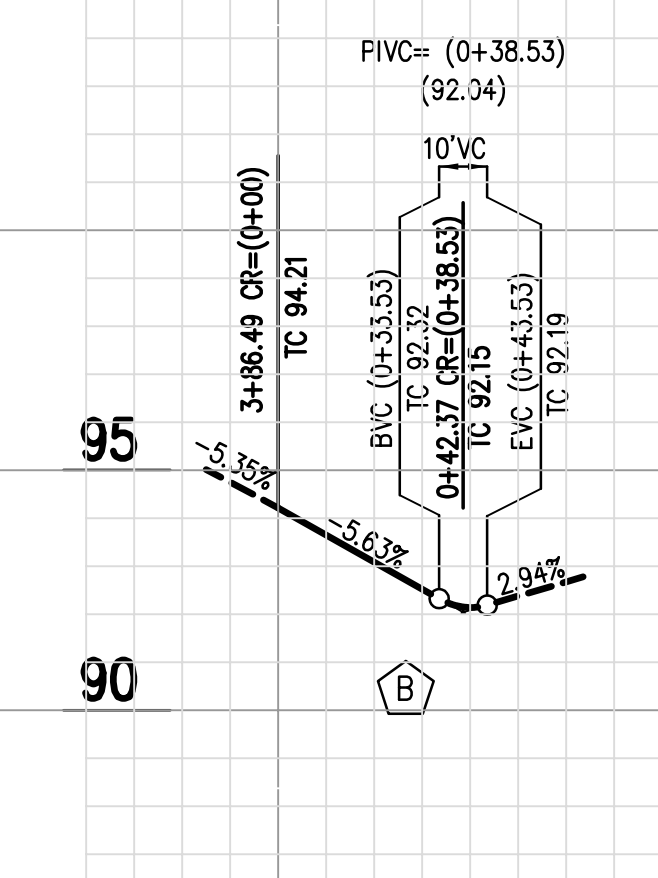
PUMPKIN HOLLOW COURT

CENTERLINE = TOP OF CURB GRADE

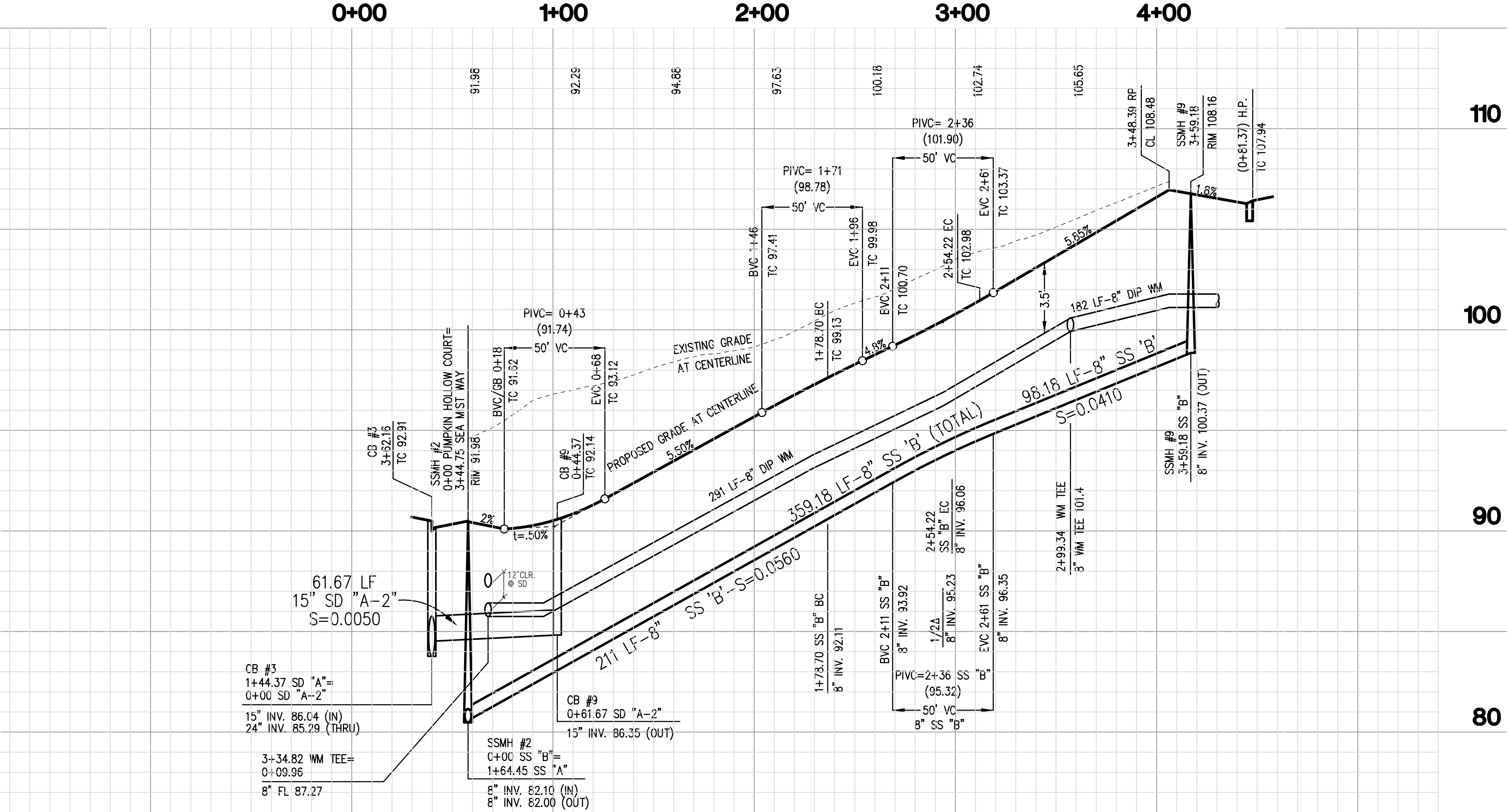
WATER MAIN NOTE:
CONTRACTOR TO PROVIDE TEMPORARY END CAP FOR LEAKAGE TESTING AND DISINFECTION. LOCATE APPROXIMATELY 4' FROM EXISTING GATE VALVES. FOLLOWING SATISFACTORY TESTING AND DISINFECTION, REMOVE END CAP AND INSTALL NEW PIPE TO COMPLETE THE WATER MAIN CONNECTION.



8" WATER MAIN AT LOT 4



PUMPKIN HOLLOW COURT BULB UNWIND



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| AUGUST 2009 | | | | | | |



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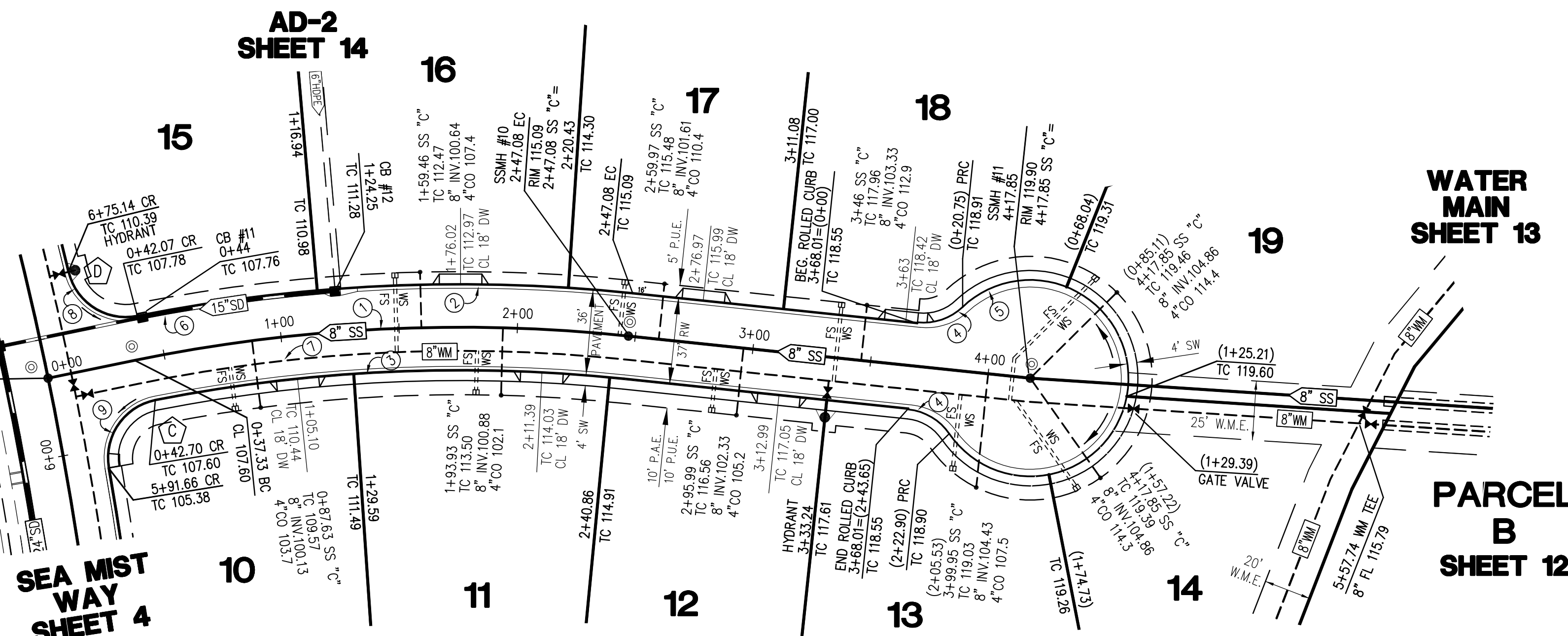
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CITY OF HALF MOON BAY CALIFORNIA

IMPROVEMENT PLAN
PUMPKIN HOLLOW COURT

PARCEL A

| NO. | RADIUS | DELTA | LENGTH | DESC. |
|-----|---------|------------|---------|-------|
| 1 | 682.50' | 173°32' | 209.75' | CL/SS |
| 2 | 700.50' | 171°24'0" | 210.42' | FC |
| 3 | 664.50' | 170°9'27" | 198.99' | FC |
| 4 | 24.00' | 49°32'41" | 20.75' | FC |
| 5 | 41.50' | 279°05'22" | 202.15' | FC |
| 6 | 699.70' | 06°44'14" | 82.28' | SD |
| 7 | 672.50' | 173°36'32" | 206.68' | WM |
| 8 | 25.00' | 87°54'46" | 38.36' | FC |
| 9 | 25.00' | 88°45'38" | 38.73' | FC |

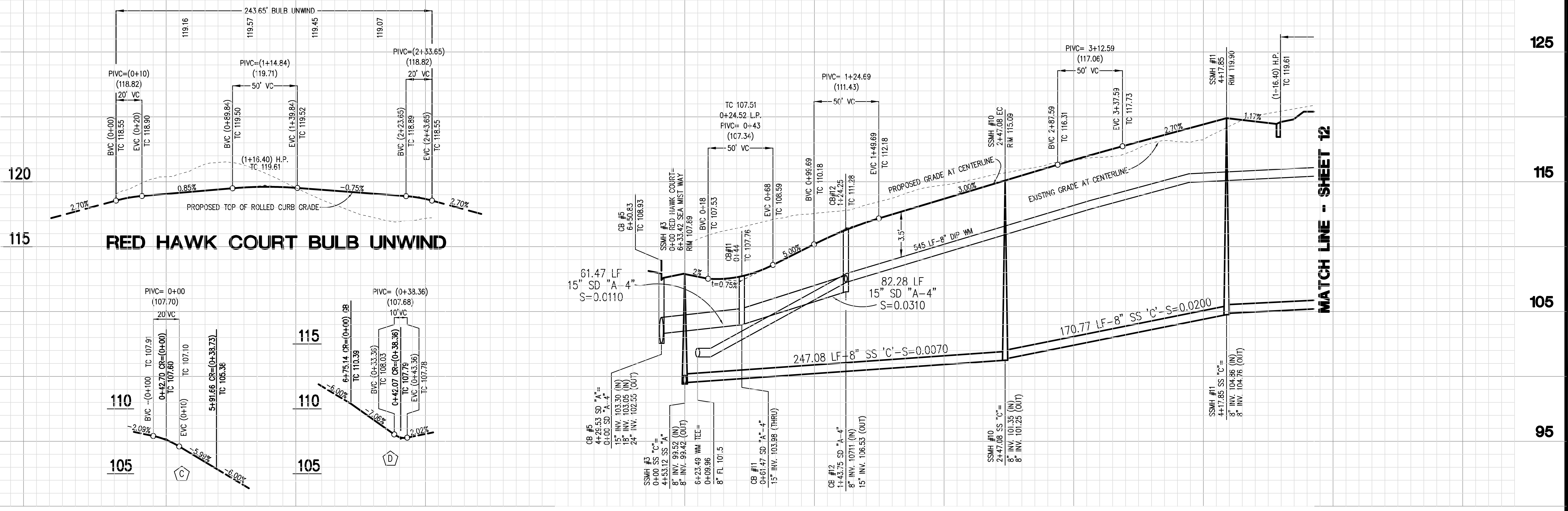
| NUMBER | STRUCTURE | OFFSET FROM CENTERLINE |
|----------|---------------|------------------------|
| CB #1-21 | INLET TYPE GO | 17.20' |



RED HAWK COURT

CENTERLINE = TOP OF CURB GRADE

0+00 1+00 2+00 3+00 4+00



RED HAWK COURT BULB UNWIND

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| DATE | NO. | BY | DATE | REVISION | dk APPROV. | AGENCY APPROV. |
|---------------------|-----|----|------|----------|------------|----------------|
| AUGUST 2009 | | | | | | |
| SCALE: HORIZ 1"=40' | | | | | | |
| VERT. 1"=4' | | | | | | |
| DESIGNED | LG | | | | | |
| DRAWN | LG | | | | | |
| PROJ. ENGR. | DLF | | | | | |
| 081003IP.DWG | | | | | | |



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CITY OF HALF MOON BAY CALIFORNIA

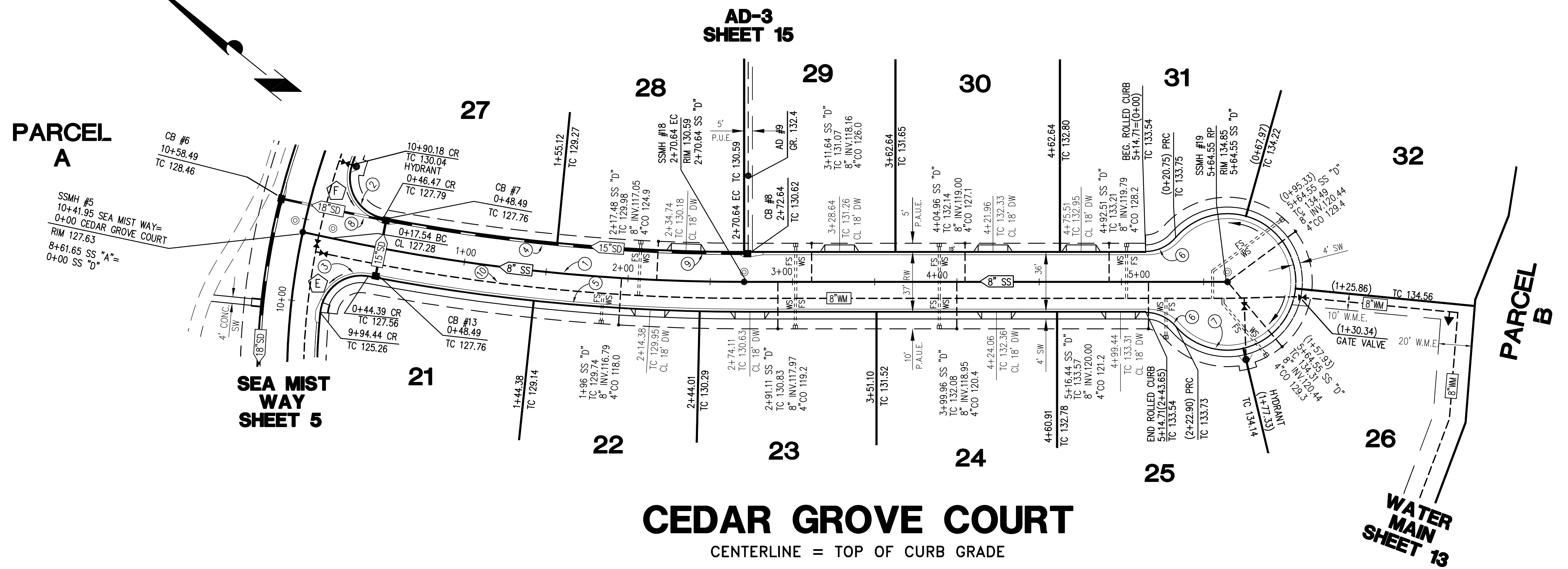
IMPROVEMENT PLAN
RED HAWK COURT

| | |
|------------|------------|
| SHEET | 8 |
| OF | 18 |
| DK JOB NO. | 08-1003-20 |

| NO. | RADIUS | DELTA | LENGTH | DESC. |
|-----|----------|------------|---------|-------|
| 1 | 1200.00' | 12'05'05" | 253.10' | CL/SS |
| 2 | 25.00' | 97'47'23" | 42.67' | FC |
| 3 | 25.00' | 95'01'48" | 41.46' | FC |
| 4 | 1182.00' | 10'42'13" | 220.81' | FC |
| 5 | 1218.00' | 10'48'09" | 229.64' | FC |
| 6 | 24.00' | 49'32'41" | 20.75' | FC |
| 7 | 41.50' | 279'05'22" | 202.15' | FC |
| 8 | 1182.80' | 01'28'41" | 30.51' | SD |
| 9 | 1182.80' | 10'42'13" | 220.96' | SD |
| 10 | 1210.00' | 12'05'05" | 255.21' | WM |

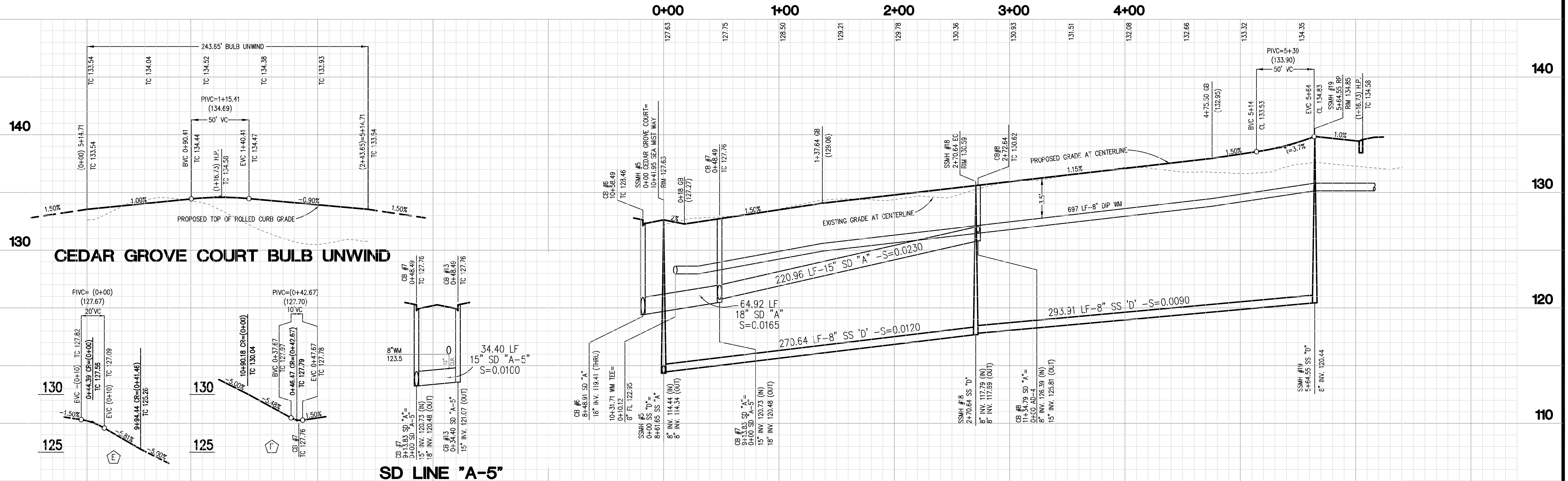
STORM DRAIN SCHEDULE

| NUMBER | STRUCTURE | OFFSET FROM CENTERLINE |
|----------|---------------|------------------------|
| CB #1-21 | INLET TYPE GO | 17.20' |



CEDAR GROVE COURT

CENTERLINE = TOP OF CURB GRADE



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| AUGUST 2009 | | | | | | |



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 CITY OF HALF MOON BAY CALIFORNIA

IMPROVEMENT PLAN
CEDAR GROVE COURT

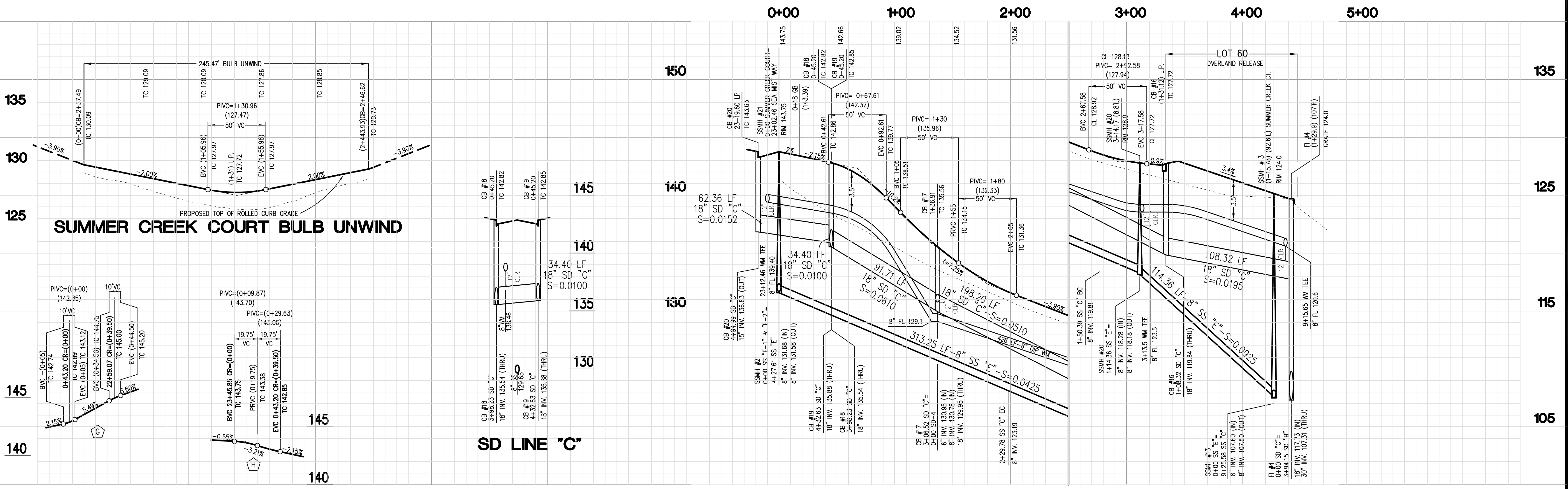
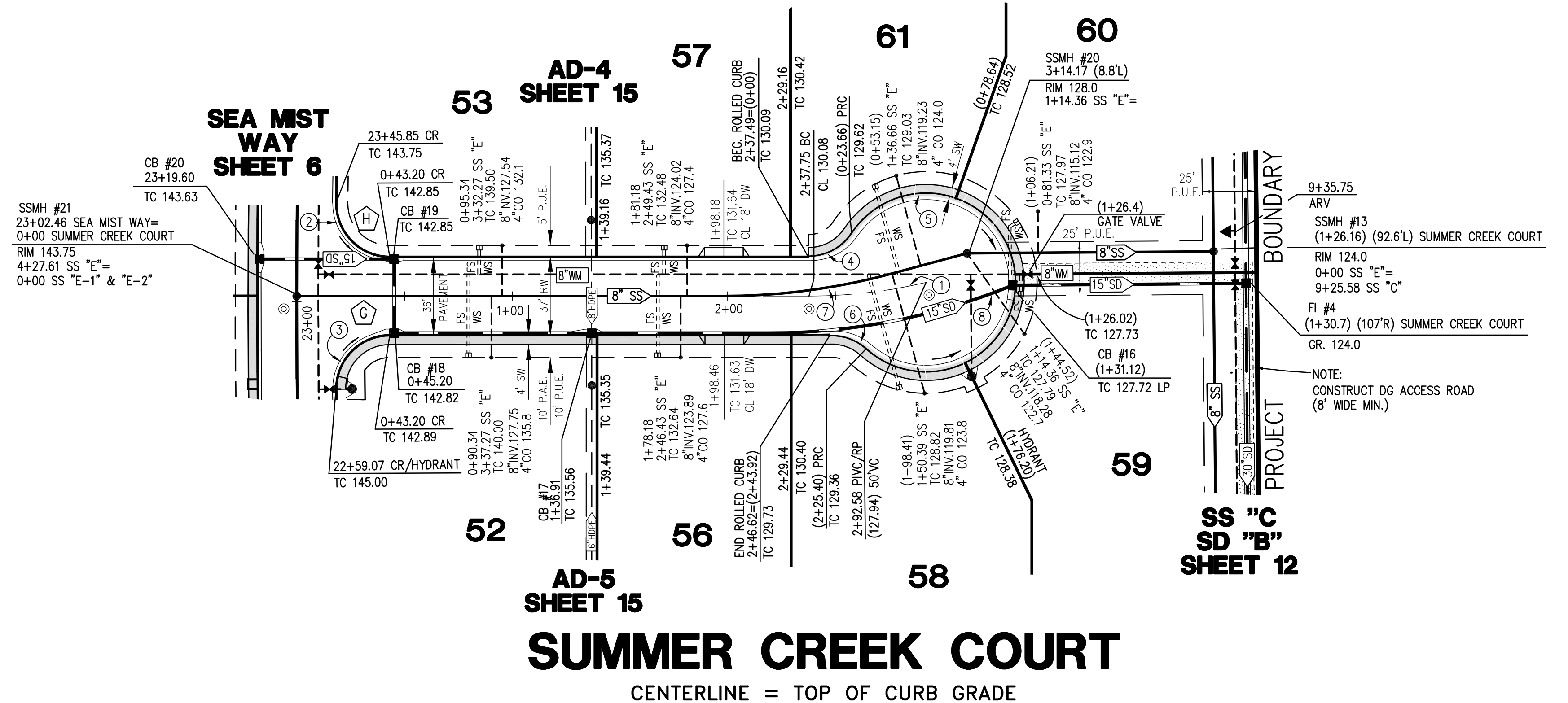
SHEET **9**
 OF 18
 DK JOB NO. **08-1003-20**

EXP. DATE 9-30-10

PRELIMINARY - NOT FOR CONSTRUCTION

| CURVE DATA TABLE | | | |
|------------------|---------|------------|---------|
| NO. | RADIUS | DELTA | LENGTH |
| 1 | 236.60' | 131°34' | 54.82' |
| 2 | 25.00' | 90°31'12" | 39.50' |
| 3 | 25.00' | 90°31'11" | 39.50' |
| 4 | 24.00' | 56°28'26" | 23.66' |
| 5 | 41.50' | 278°32'14" | 201.75' |
| 6 | 24.00' | 44°12'34" | 18.52' |
| 7 | 300.00' | 15°09'47" | 79.39' |
| 8 | 300.00' | 22°10'37" | 116.12' |

| STORM DRAIN SCHEDULE | | |
|----------------------|---------------|------------------------|
| NUMBER | STRUCTURE | OFFSET FROM CENTERLINE |
| CB #1-21 | INLET TYPE GO | 17.20' |
| FI #4 | DROP INLET | 107' |



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| | | | | | | |
|------------------------------------|-----|----|------|----------|------------|----------------|
| DATE: AUGUST 2009 | NO. | BY | DATE | REVISION | dk APPROV. | AGENCY APPROV. |
| SCALE: HORIZ 1"=40' VERT. 1"=4' | | | | | | |
| DESIGNED LG | | | | | | |
| DRAWN LG | | | | | | |
| PROJ. ENGR. DLF | | | | | | |
| 081003IP.DWG | | | | | | |



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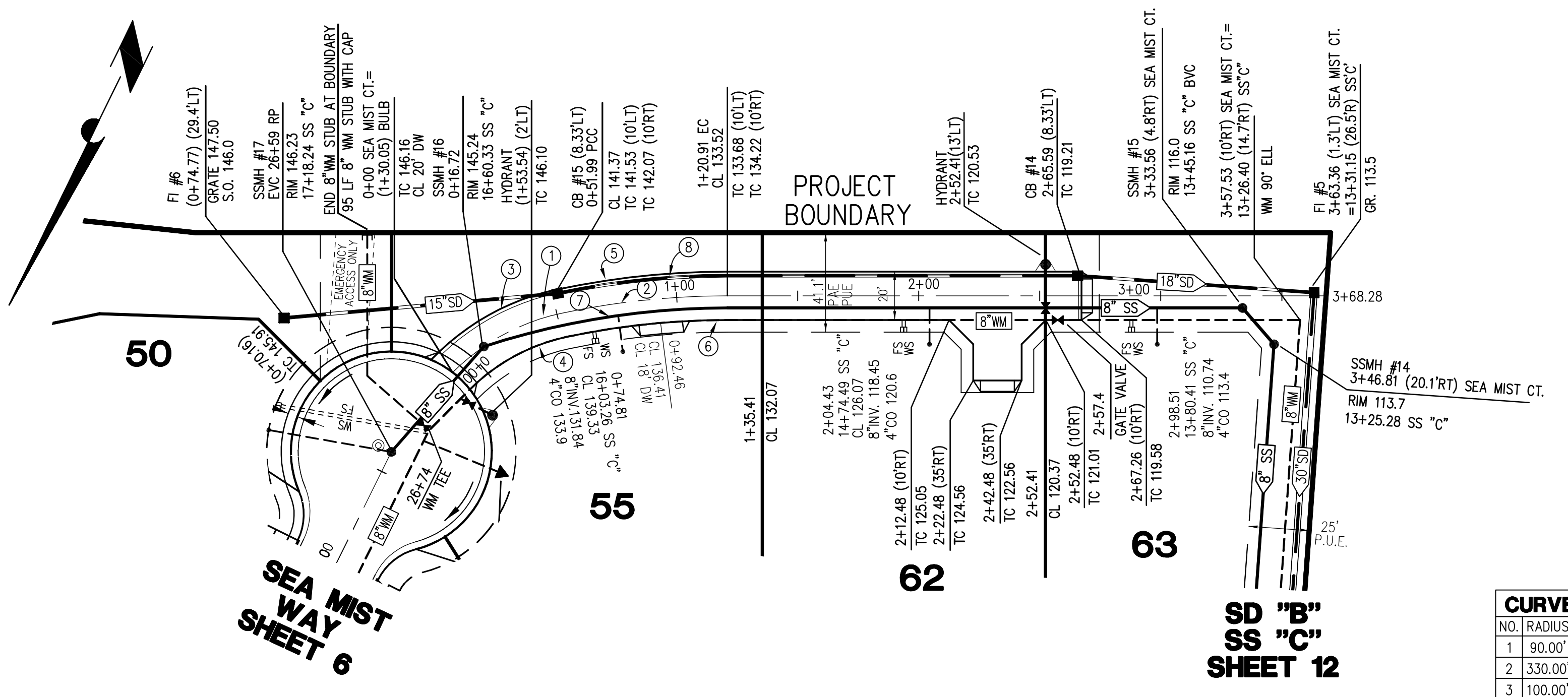
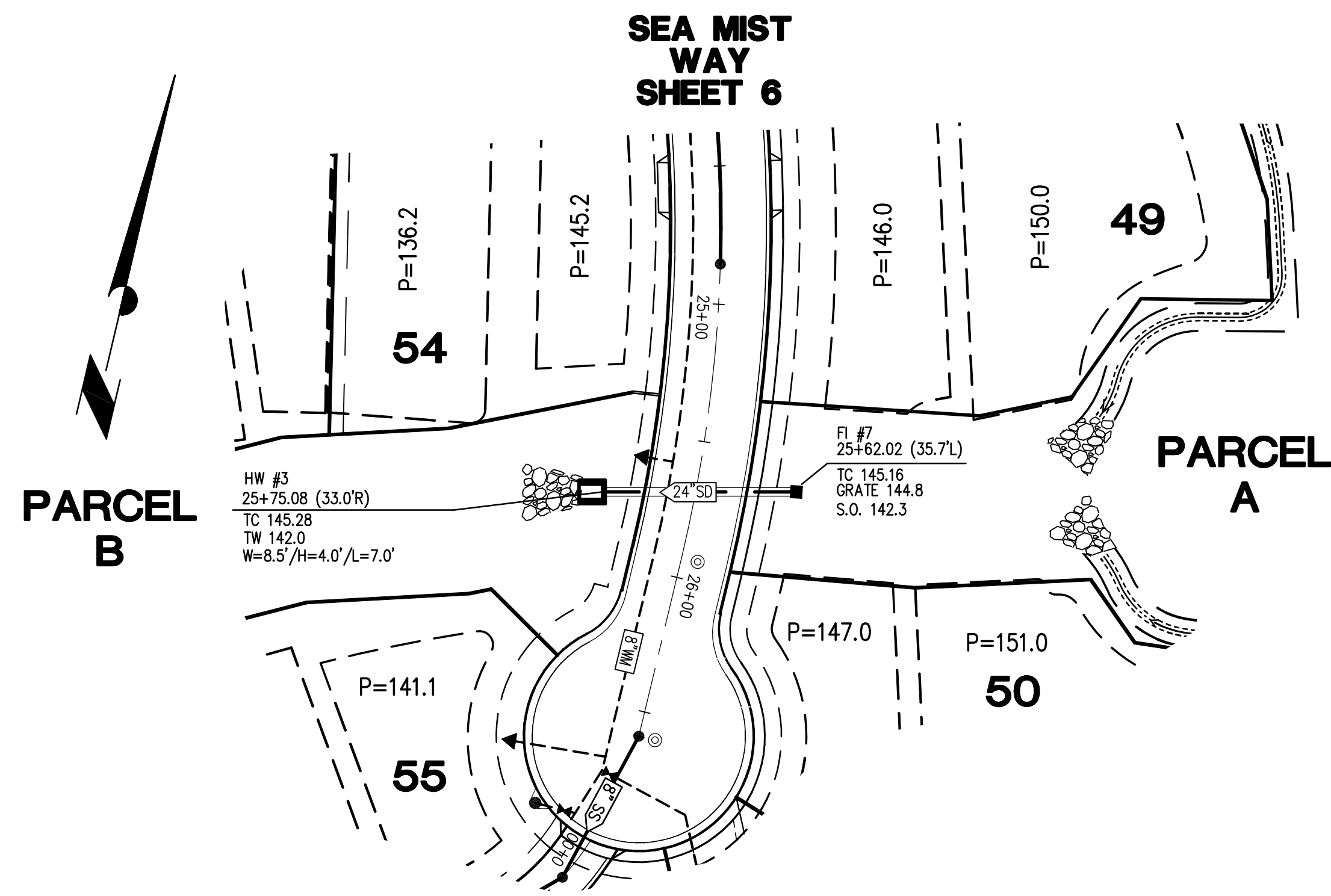
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AILANTO PROPERTIES
PACIFIC RIDGE

CITY OF HALF MOON BAY CALIFORNIA

IMPROVEMENT PLAN
SUMMER CREEK COURT

SHEET **10**
OF 18
DK JOB NO. **08-1003-20**



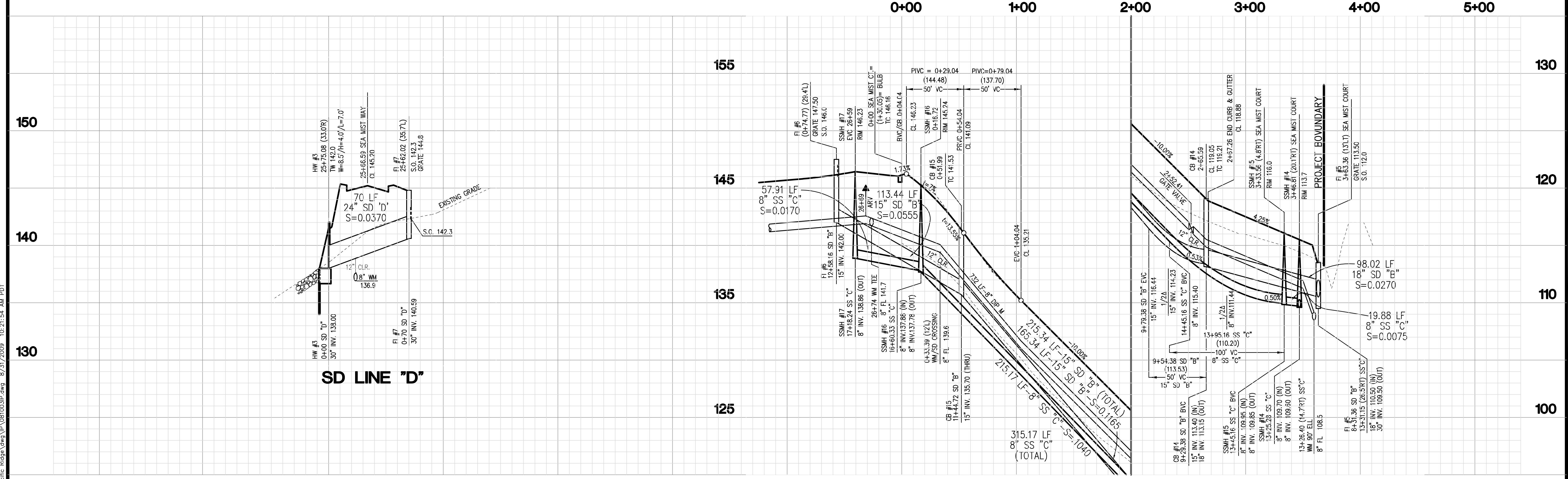
STORM DRAIN LINE "D"

| STORM DRAIN SCHEDULE | | |
|----------------------|---------------|------------------------|
| NUMBER | STRUCTURE | OFFSET FROM CENTERLINE |
| CB #14-15 | INLET TYPE GO | 8.33' |
| FI #5 | DROP INLET | 1.34' |
| FI #6 | DROP INLET | 29.4' |
| FI #7 | DROP INLET | 35.74' |
| HW #3 | HEADWALL | 33.03' |

SEA MIST COURT

CENTERLINE + 0.16' = TOP OF CURB GRADE (LEFT SIDE)
 CENTERLINE + 0.70' = TOP OF CURB GRADE (RIGHT SIDE)

| CURVE DATA TABLE | | | | |
|------------------|---------|-----------|---------|-------|
| NO. | RADIUS | DELTA | LENGTH | DESC. |
| 1 | 90.00' | 33°05'48" | 51.99' | CL |
| 2 | 330.00' | 11°57'59" | 68.92' | CL |
| 3 | 100.00' | 34°33'55" | 60.33' | FC |
| 4 | 80.00' | 33°05'48" | 46.21' | FC/W |
| 5 | 340.00' | 11°57'59" | 71.01' | FC |
| 6 | 320.00' | 11°57'59" | 66.83' | FC/W |
| 7 | 325.00' | 18°02'16" | 102.32' | SS |
| 8 | 338.33' | 11°57'59" | 70.66' | SD |



SD LINE "D"

| DATE | NO. | BY | DATE | REVISION | dk APPROV. | AGENCY APPROV. |
|------------------------------------|-----|----|------|----------|------------|----------------|
| AUGUST 2009 | | | | | | |
| SCALE: HORIZ 1"=40' VERT. 1"=4' | | | | | | |
| DESIGNED | LG | | | | | |
| DRAWN | LG | | | | | |
| PROJ. ENGR. | DLF | | | | | |
| 081003IP.DWG | | | | | | |



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PACIFIC RIDGE
 CITY OF HALF MOON BAY CALIFORNIA

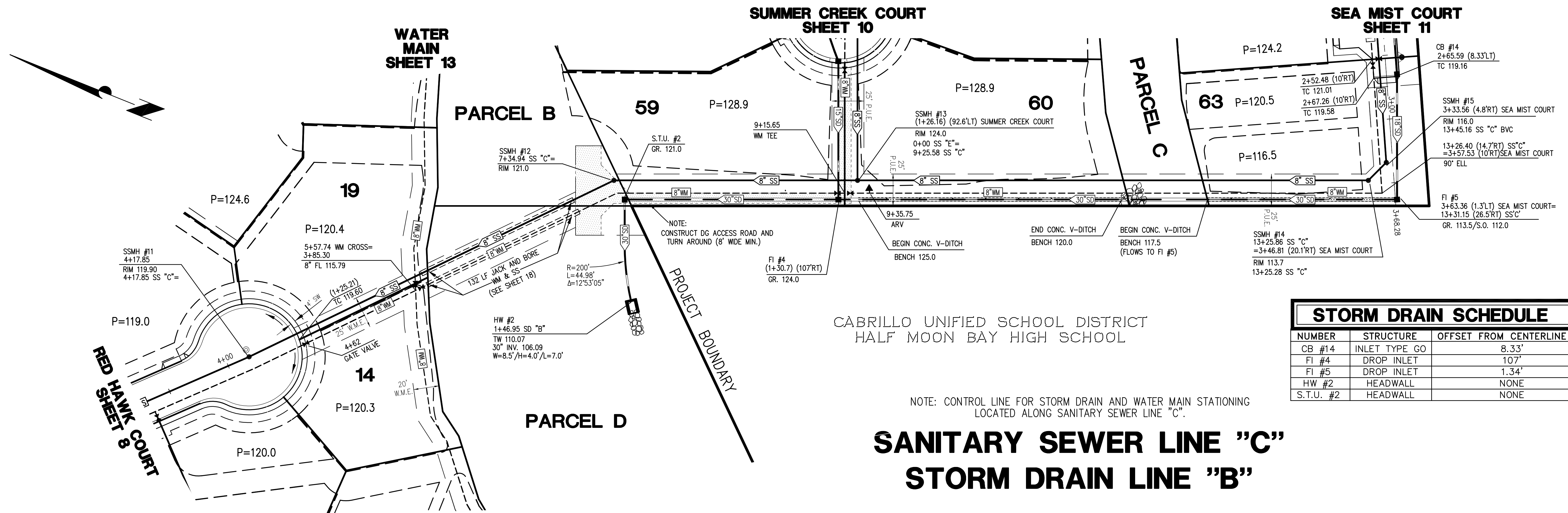
IMPROVEMENT PLAN
SEA MIST COURT
STORM DRAIN LINE "D"

| | |
|------------|------------|
| SHEET | 11 |
| OF | 18 |
| DK JOB NO. | 08-1003-20 |

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EXP. DATE 9-30-10

PRELIMINARY - NOT FOR CONSTRUCTION



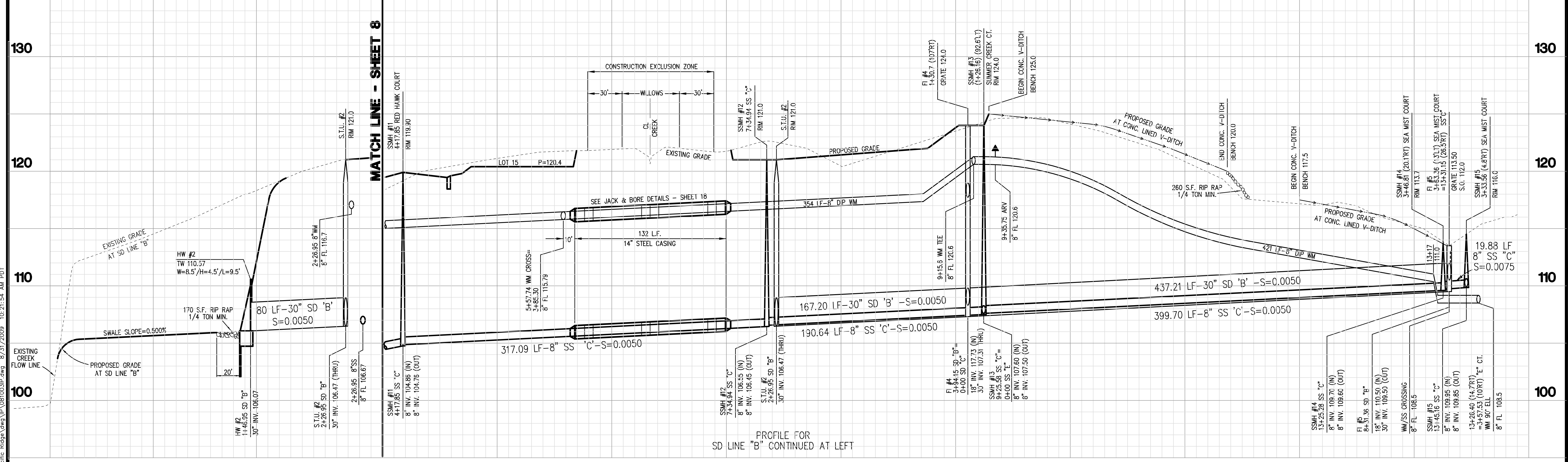
| STORM DRAIN SCHEDULE | | |
|----------------------|---------------|------------------------|
| NUMBER | STRUCTURE | OFFSET FROM CENTERLINE |
| CB #14 | INLET TYPE GO | 8.33' |
| FI #4 | DROP INLET | 107' |
| FI #5 | DROP INLET | 1.34' |
| HW #2 | HEADWALL | NONE |
| S.T.U. #2 | HEADWALL | NONE |

CABRILLO UNIFIED SCHOOL DISTRICT
HALF MOON BAY HIGH SCHOOL

NOTE: CONTROL LINE FOR STORM DRAIN AND WATER MAIN STATIONING
LOCATED ALONG SANITARY SEWER LINE "C".

SANITARY SEWER LINE "C" STORM DRAIN LINE "B"

0+00 1+00 2+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00



| DATE | NO. | BY | DATE | REVISION | dk APPROV. | AGENCY APPROV. |
|------------------------------------|-----|----|------|----------|------------|----------------|
| AUGUST 2009 | | | | | | |
| SCALE: HORIZ 1"=40' VERT. 1"=4' | | | | | | |
| DESIGNED | LG | | | | | |
| DRAWN | LG | | | | | |
| PROJ. ENGR. | DLF | | | | | |
| 081003IP.DWG | | | | | | |



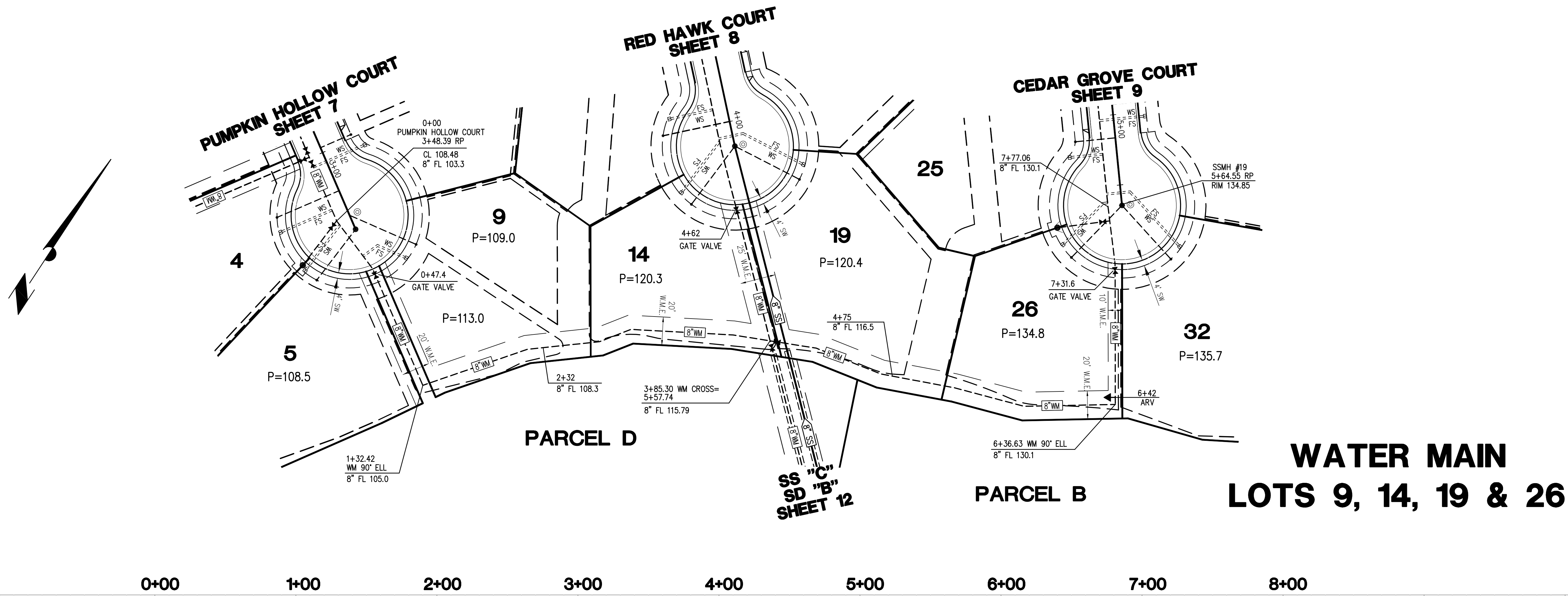
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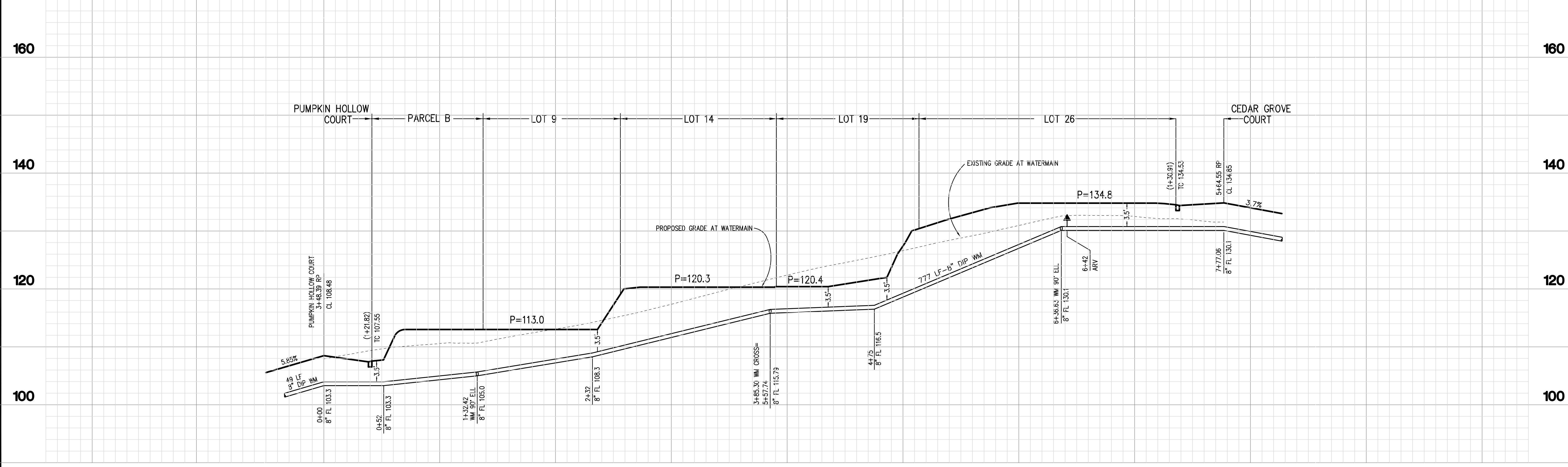
AILANTO PROPERTIES
PACIFIC RIDGE
CITY OF HALF MOON BAY CALIFORNIA

IMPROVEMENT PLAN
SANIT. SEWER LINE "C"
STORM DRAIN LINE "B"

SHEET **12**
OF 18
DK JOB NO. **08-1003-20**



0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00



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|------------------------------------|-----|----|------|----------|------------|----------------|
| DATE AUGUST 2009 | NO. | BY | DATE | REVISION | dk APPROV. | AGENCY APPROV. |
| SCALE: HORIZ 1"=40' VERT. 1"=8' | | | | | | |
| DESIGNED LG | | | | | | |
| DRAWN LG | | | | | | |
| PROJ. ENGR. DLF | | | | | | |
| 081003IP.DWG | | | | | | |



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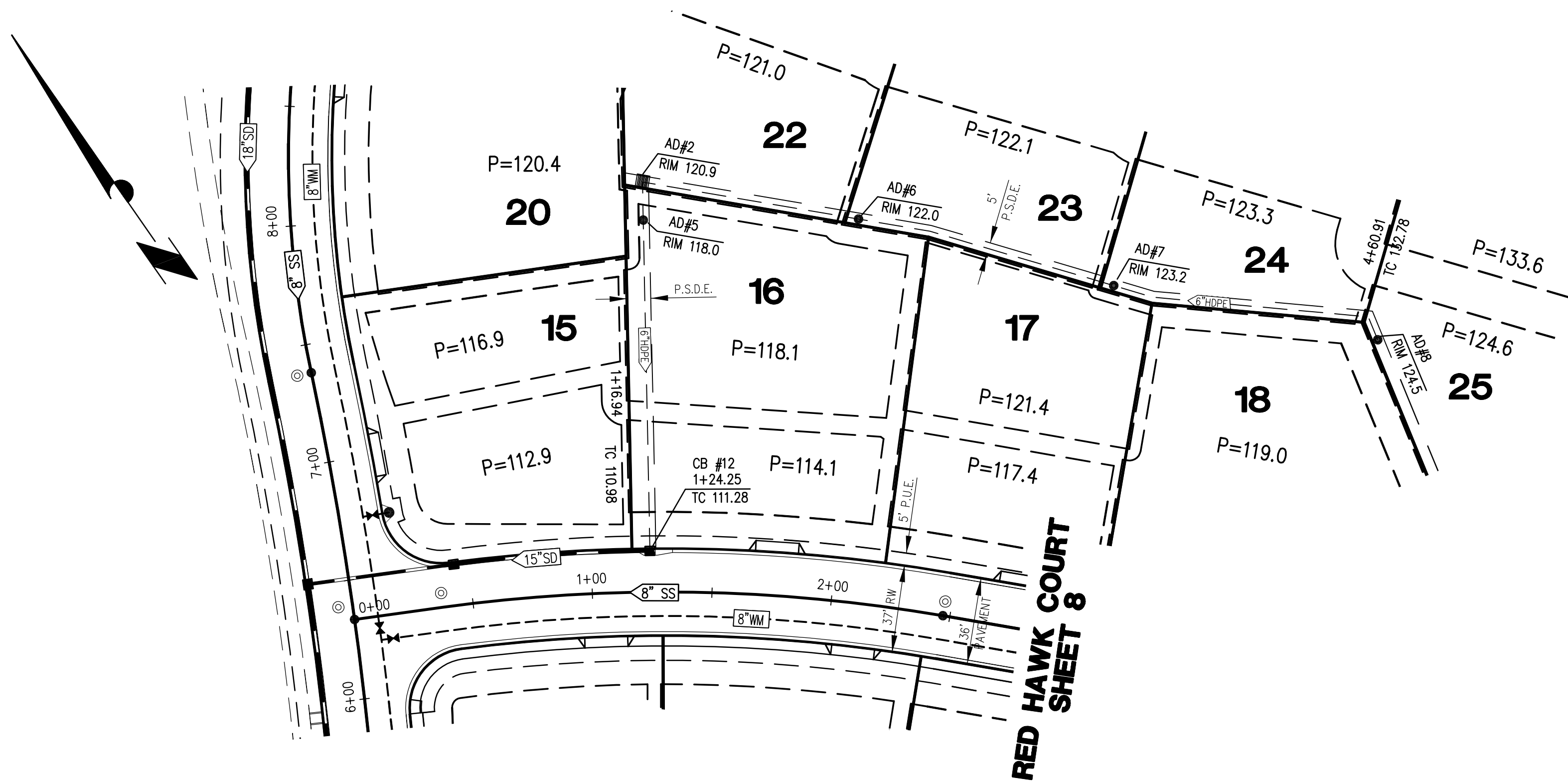
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PACIFIC RIDGE
 CITY OF HALF MOON BAY CALIFORNIA

IMPROVEMENT PLAN
WATER MAIN
LOTS 9, 14, 19 & 26

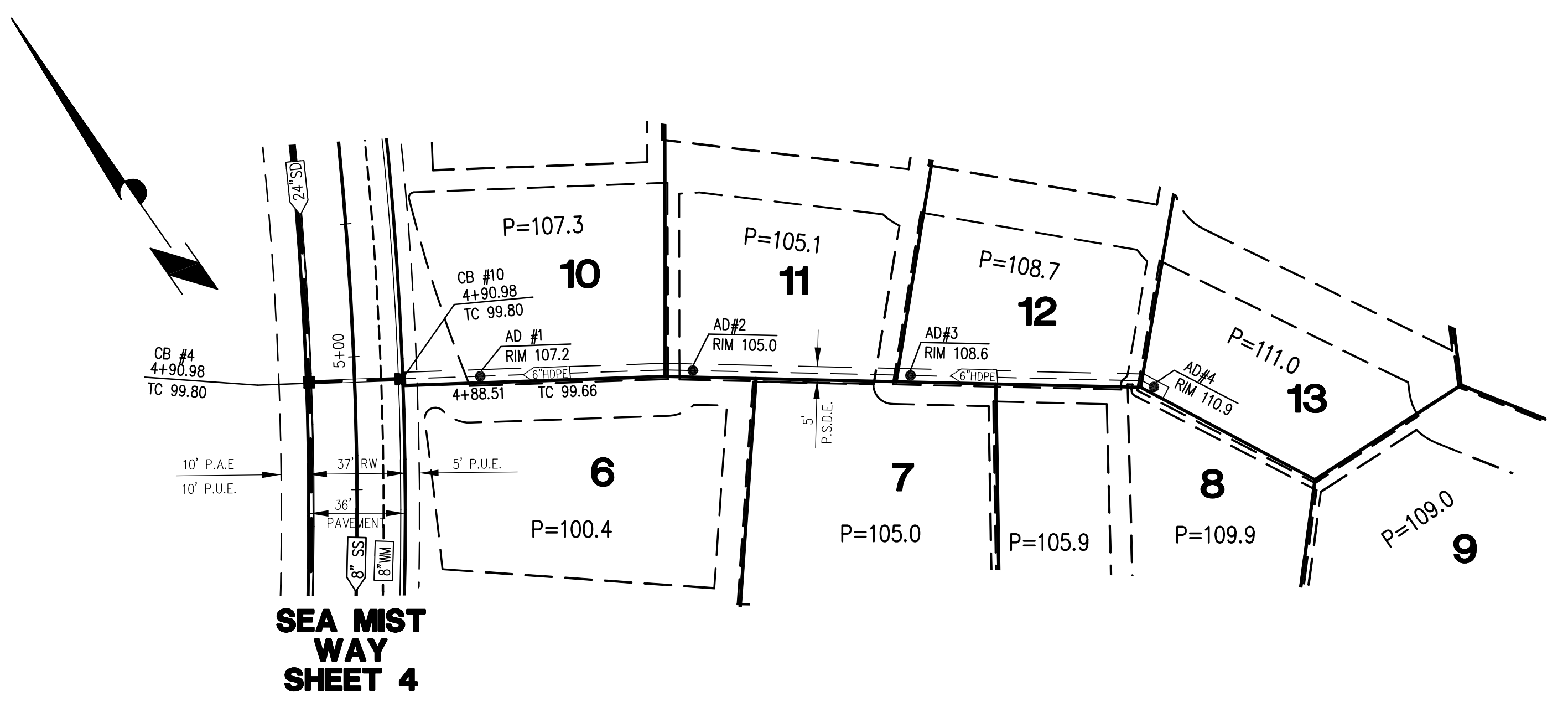
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|------------|------------|
| SHEET | 13 |
| OF 18 | |
| DK JOB NO. | 08-1003-20 |

EXP. DATE 9-30-10

PRELIMINARY - NOT FOR CONSTRUCTION

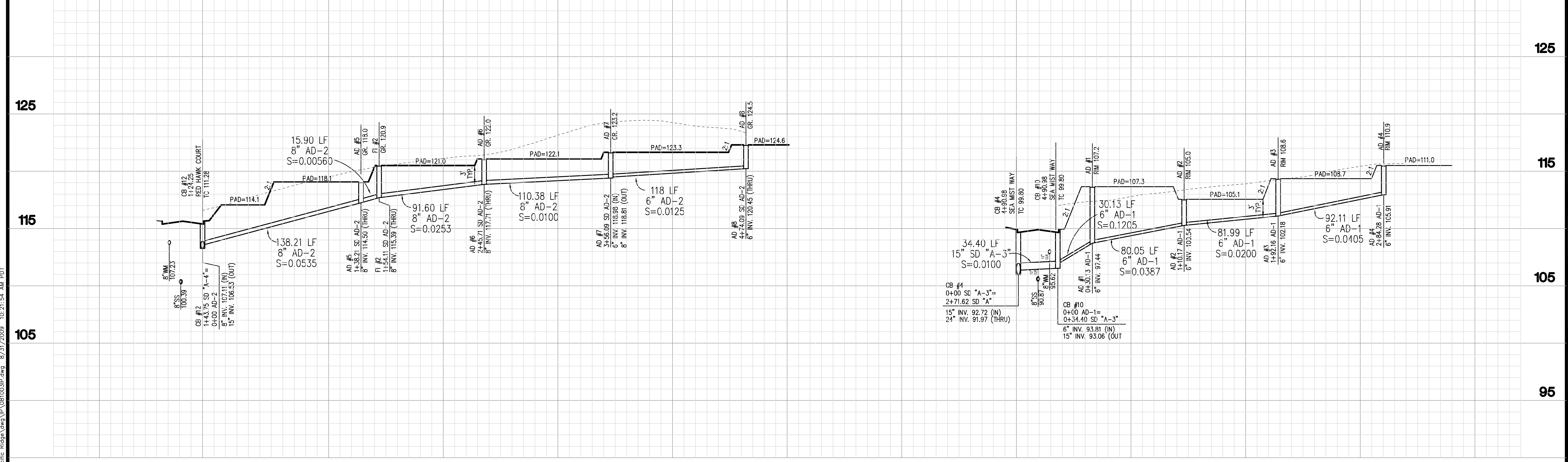


AREA DRAIN LINE 2



AREA DRAIN LINE 1

0+00 1+00 2+00 3+00 4+00 0+00 1+00 2+00 3+00 4+00



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| DATE | NO. | BY | DATE | REVISION | dk APPROV. | AGENCY APPROV. |
|----------------------|-----|----|------|----------|------------|----------------|
| AUGUST 2009 | | | | | | |
| SCALE: HORIZ. 1"=40' | | | | | | |
| VERT. 1"=8' | | | | | | |
| DESIGNED | LG | | | | | |
| DRAWN | LG | | | | | |
| PROJ. ENGR. | DLF | | | | | |
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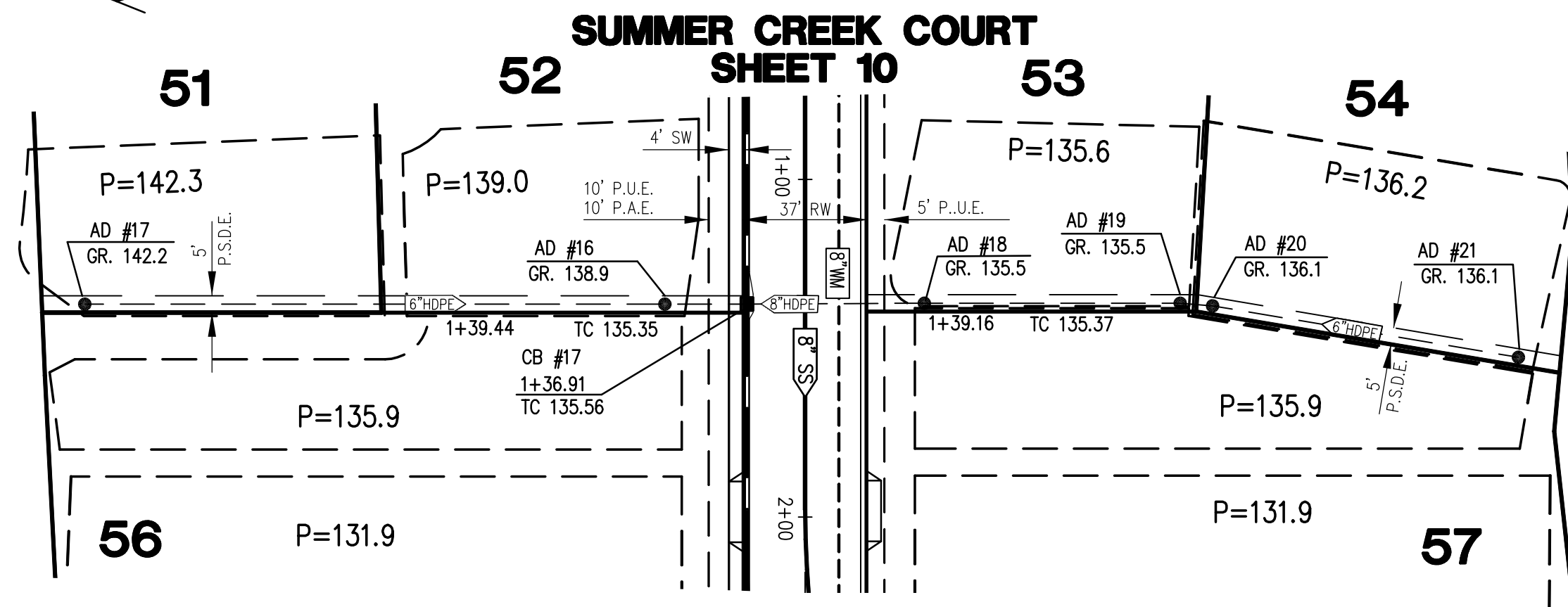
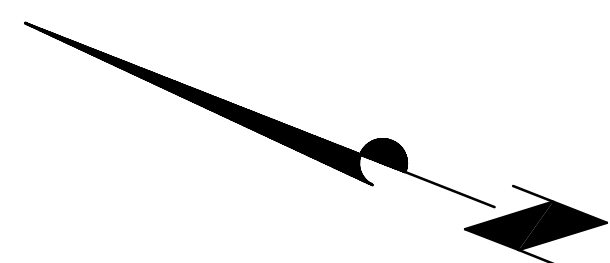
AILANTO PROPERTIES
PACIFIC RIDGE
 CITY OF HALF MOON BAY CALIFORNIA

IMPROVEMENT PLAN
AREA DRAIN LINES
1 AND 2

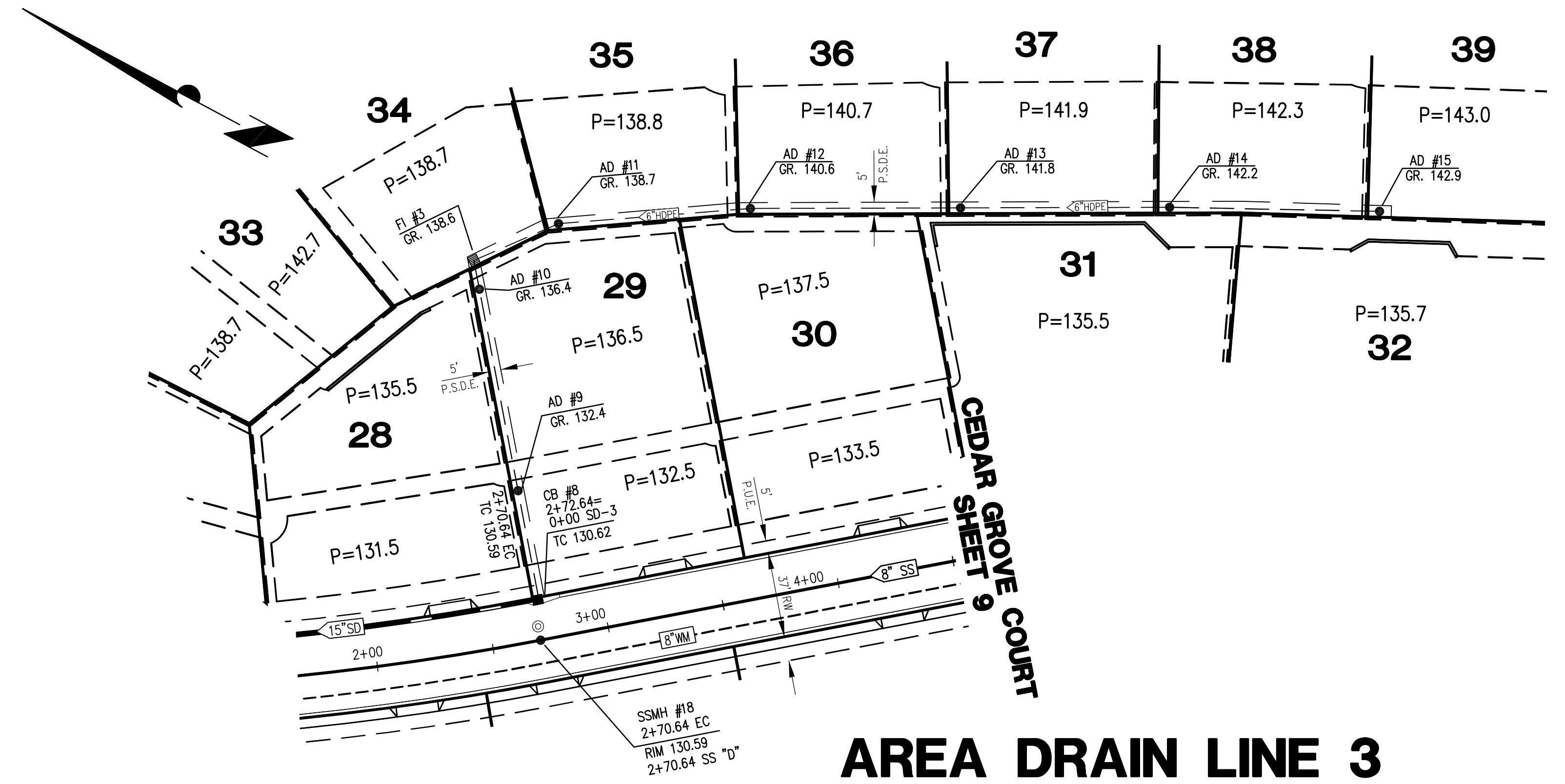
SHEET **14**
 OF 18
 DK JOB NO. **08-1003-20**

EXP. DATE 9-30-10

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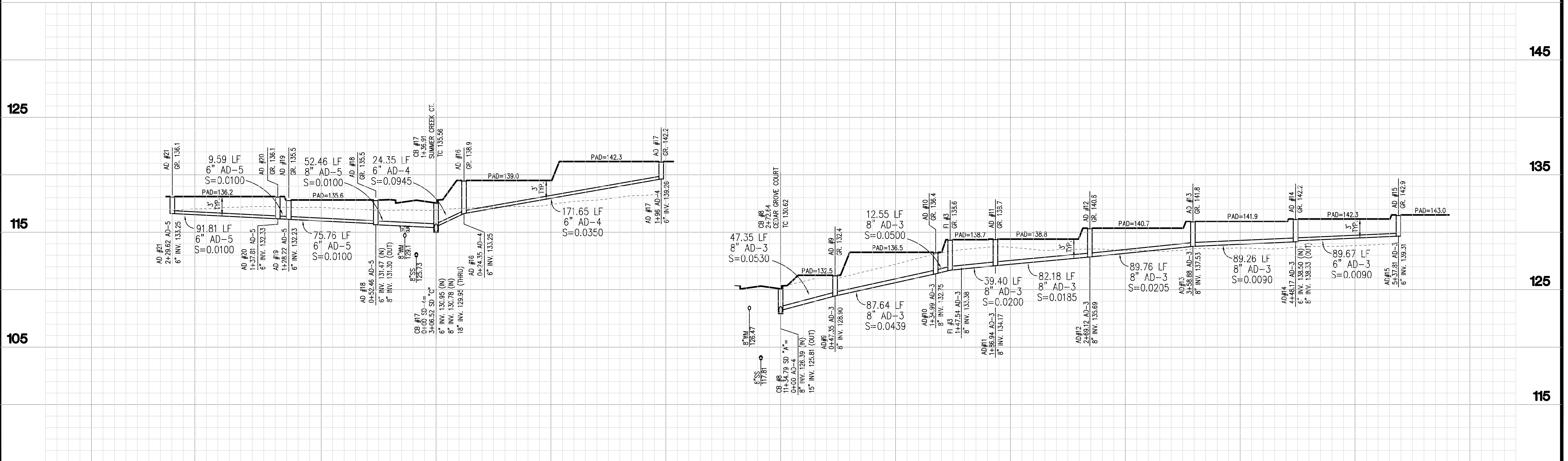


AREA DRAIN LINES 4 AND 5



AREA DRAIN LINE 3

3+00 2+00 1+00 0+00 1+00 2+00 0+00 1+00 2+00 3+00 4+00



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|---------------------|-----|----|------|----------|------------|----------------|
| DATE AUGUST 2009 | NO. | BY | DATE | REVISION | dk APPROV. | AGENCY APPROV. |
| SCALE: HORIZ 1"=40' | | | | | | |
| VERT. 1"=8' | | | | | | |
| DESIGNED LG | | | | | | |
| DRAWN LG | | | | | | |
| PROJ. ENGR. DLF | | | | | | |
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 CITY OF HALF MOON BAY CALIFORNIA

IMPROVEMENT PLAN
AREA DRAIN LINES
3, 4 AND 5

| | |
|------------|------------|
| SHEET | 15 |
| OF 18 | |
| DK JOB NO. | 08-1003-20 |

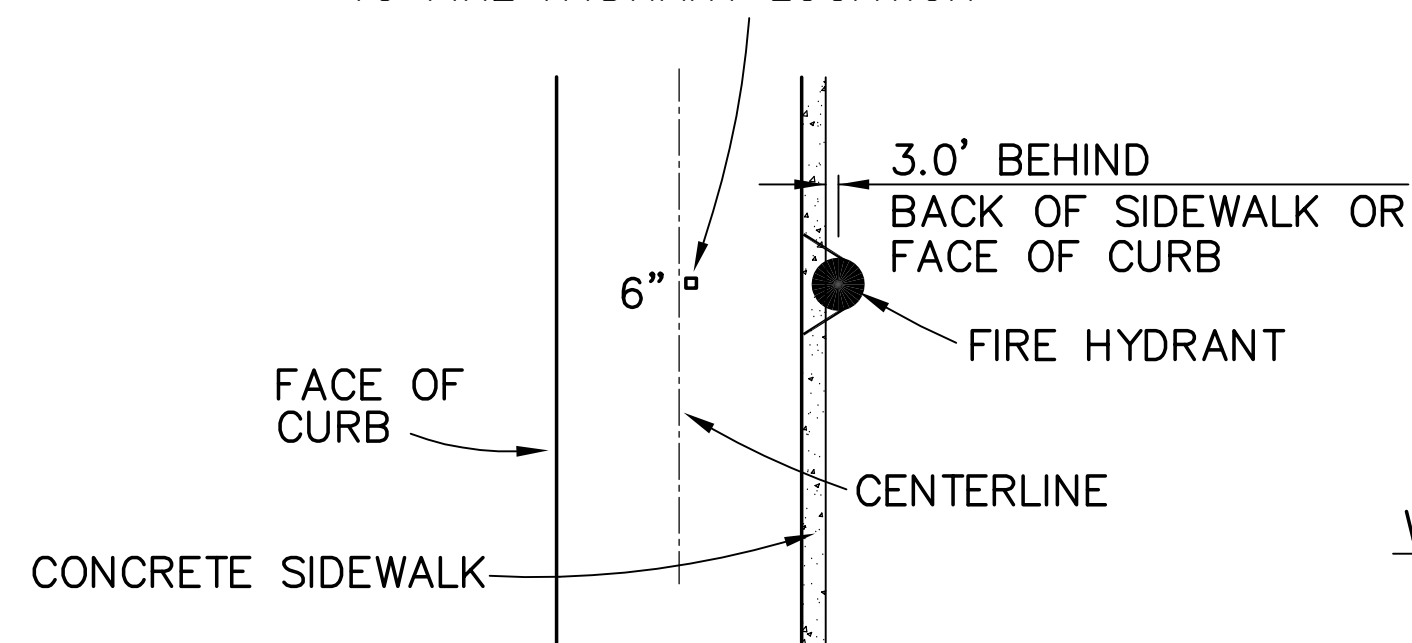
EXP. DATE 9-30-10

PRELIMINARY - NOT FOR CONSTRUCTION

SIGN LEGEND

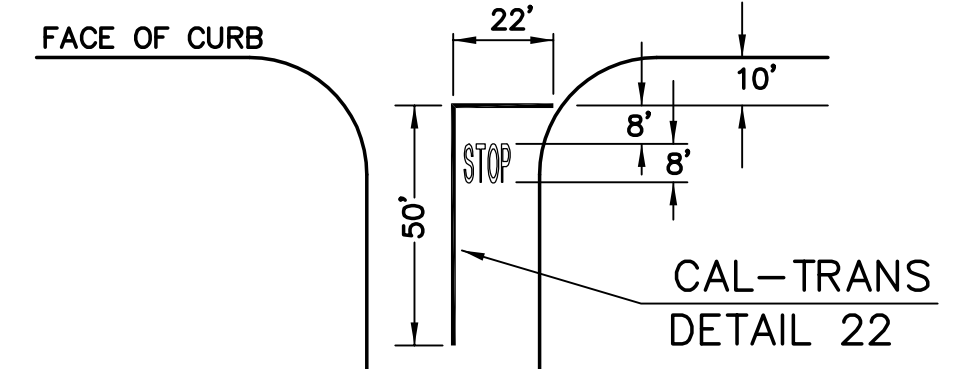
- R1-1
- R1-4
- W3-1
- W1-2
- R2-1
- R26 (CA)
- R27 (CA)
- STREET NAME SIGN
SEE HMB DETAIL SI-10

INSTALL BLUE REFLECTIVE MARKER
(HAWKINS V16C-DB OR EQUAL)
6" OFF CENTERLINE & PERPENDICULAR
TO FIRE HYDRANT LOCATION



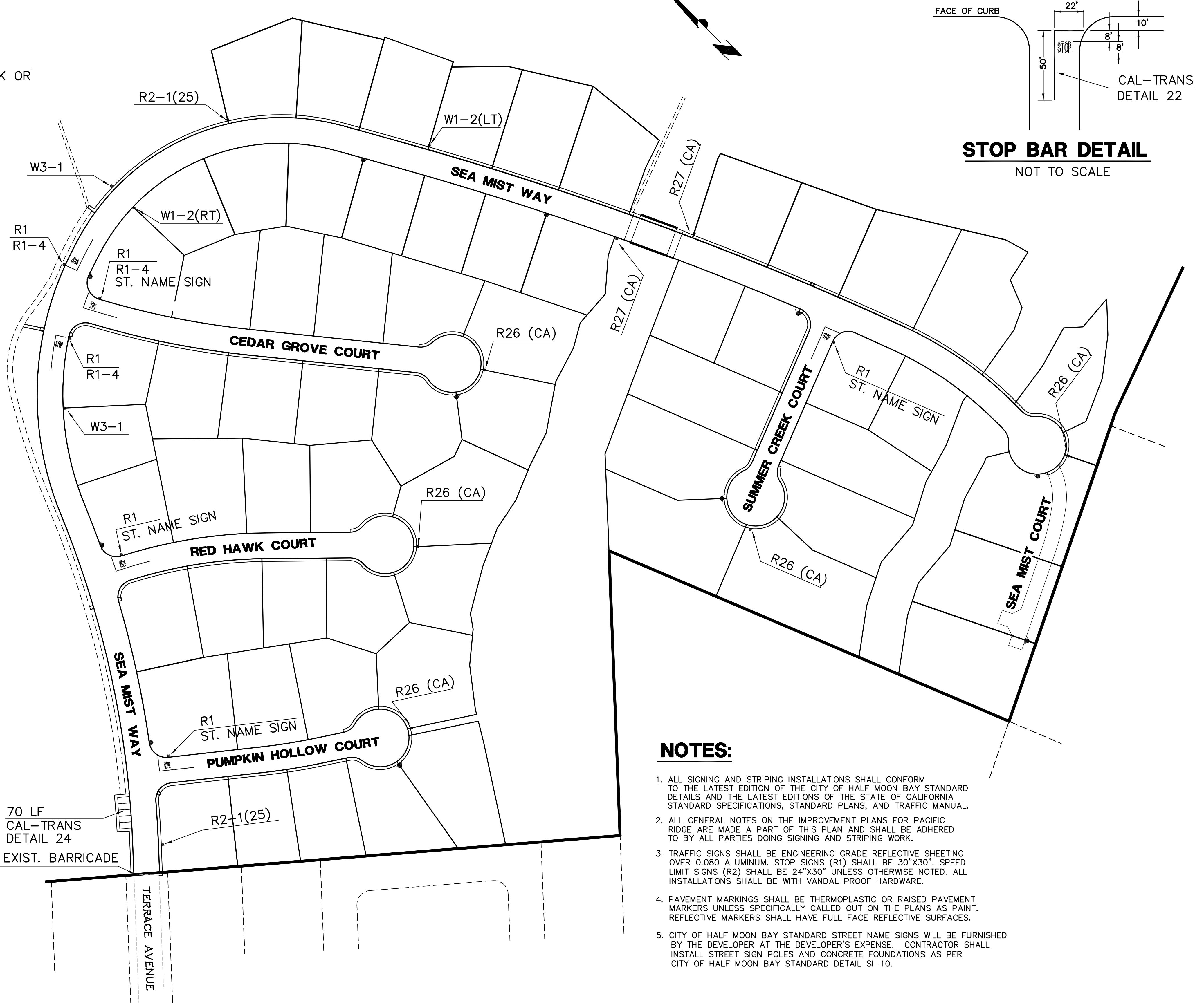
FIRE HYDRANT REFLECTOR

NOT TO SCALE



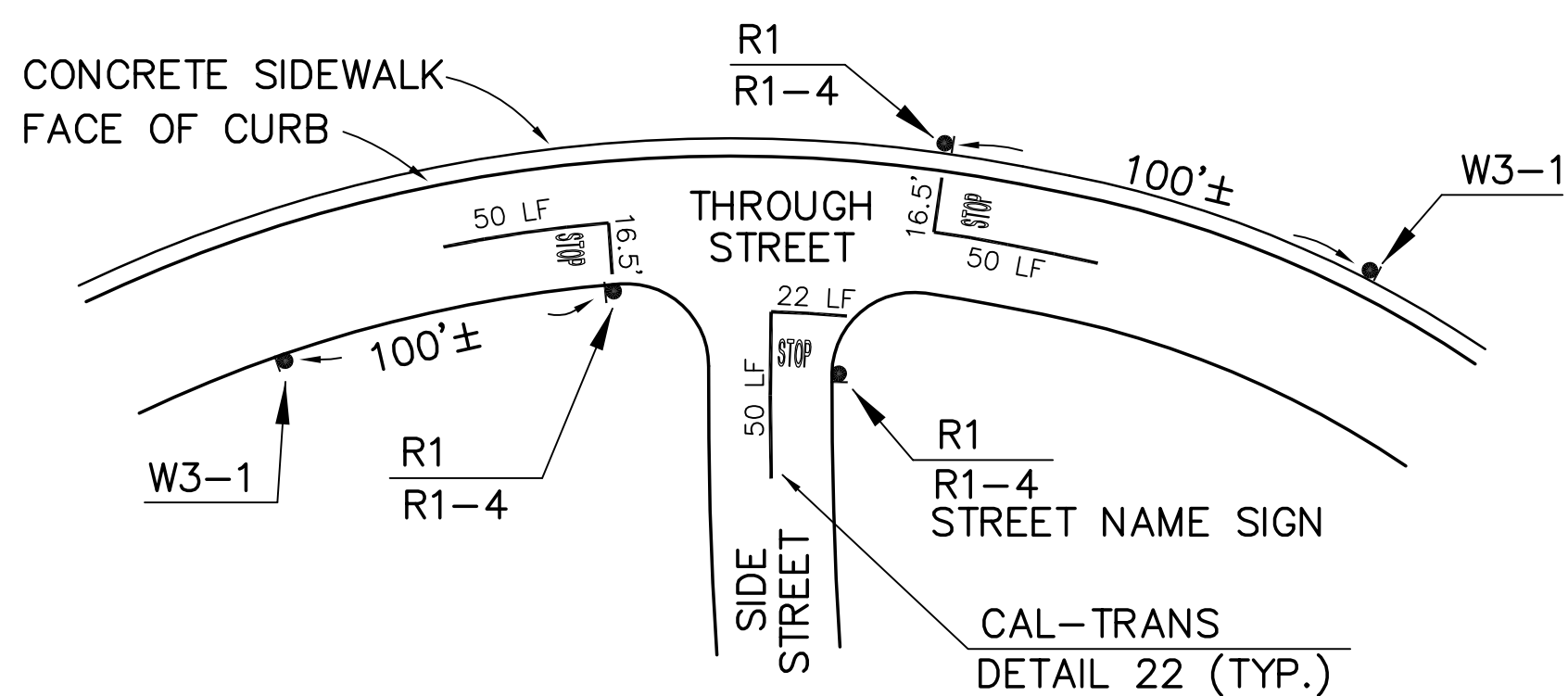
STOP BAR DETAIL

NOT TO SCALE



NOTES:

1. ALL SIGNING AND STRIPING INSTALLATIONS SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF HALF MOON BAY STANDARD DETAILS AND THE LATEST EDITIONS OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS, STANDARD PLANS, AND TRAFFIC MANUAL.
2. ALL GENERAL NOTES ON THE IMPROVEMENT PLANS FOR PACIFIC RIDGE ARE MADE A PART OF THIS PLAN AND SHALL BE ADHERED TO BY ALL PARTIES DOING SIGNING AND STRIPING WORK.
3. TRAFFIC SIGNS SHALL BE ENGINEERING GRADE REFLECTIVE SHEETING OVER 0.080 ALUMINUM. STOP SIGNS (R1) SHALL BE 30"x30". SPEED LIMIT SIGNS (R2) SHALL BE 24"x30" UNLESS OTHERWISE NOTED. ALL INSTALLATIONS SHALL BE WITH VANDAL PROOF HARDWARE.
4. PAVEMENT MARKINGS SHALL BE THERMOPLASTIC OR RAISED PAVEMENT MARKERS UNLESS SPECIFICALLY CALLED OUT ON THE PLANS AS PAINT. REFLECTIVE MARKERS SHALL HAVE FULL FACE REFLECTIVE SURFACES.
5. CITY OF HALF MOON BAY STANDARD STREET NAME SIGNS WILL BE FURNISHED BY THE DEVELOPER AT THE DEVELOPER'S EXPENSE. CONTRACTOR SHALL INSTALL STREET SIGN POLES AND CONCRETE FOUNDATIONS AS PER CITY OF HALF MOON BAY STANDARD DETAIL SI-10.



"3-WAY STOP" INTERSECTION DETAIL

NOT TO SCALE

NOTE: PLACE SIGNS 12" BEHIND CURB OR SIDEWALK

| DATE | NO. | BY | DATE | REVISION | dk APPROV. | AGENCY APPROV. |
|-----------------------------------|-----|----|------|----------|------------|----------------|
| JULY 2009 | | | | | | |
| SCALE: HORIZ 1"=80' VERT. NONE | | | | | | |
| DESIGNED | LG | | | | | |
| DRAWN | LG | | | | | |
| PROJ. ENGR. | DLF | | | | | |
| 081003IP03.DWG | | | | | | |



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CITY OF HALF MOON BAY CALIFORNIA

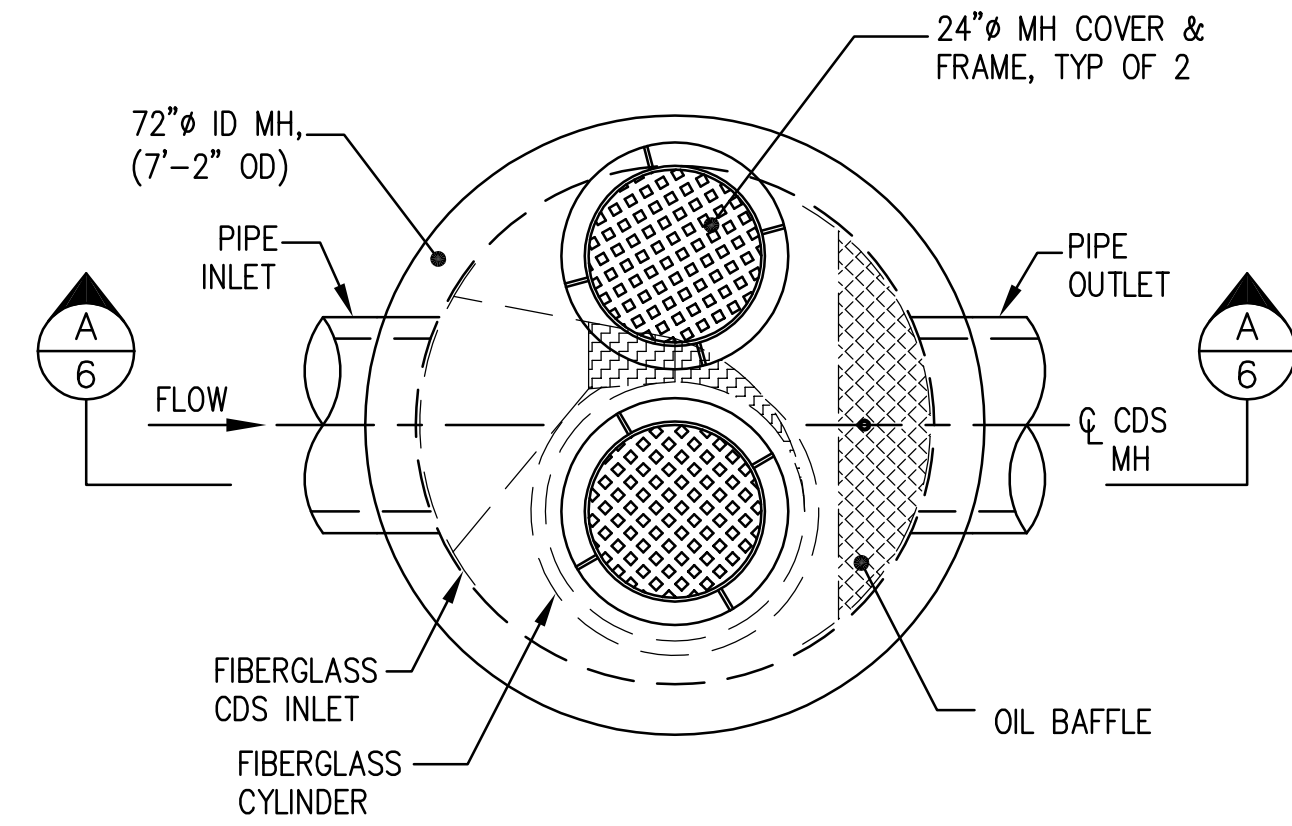
IMPROVEMENT PLAN
SIGNING & STRIPING

SHEET **16**
OF 18
DK JOB NO. **08-1003-20**

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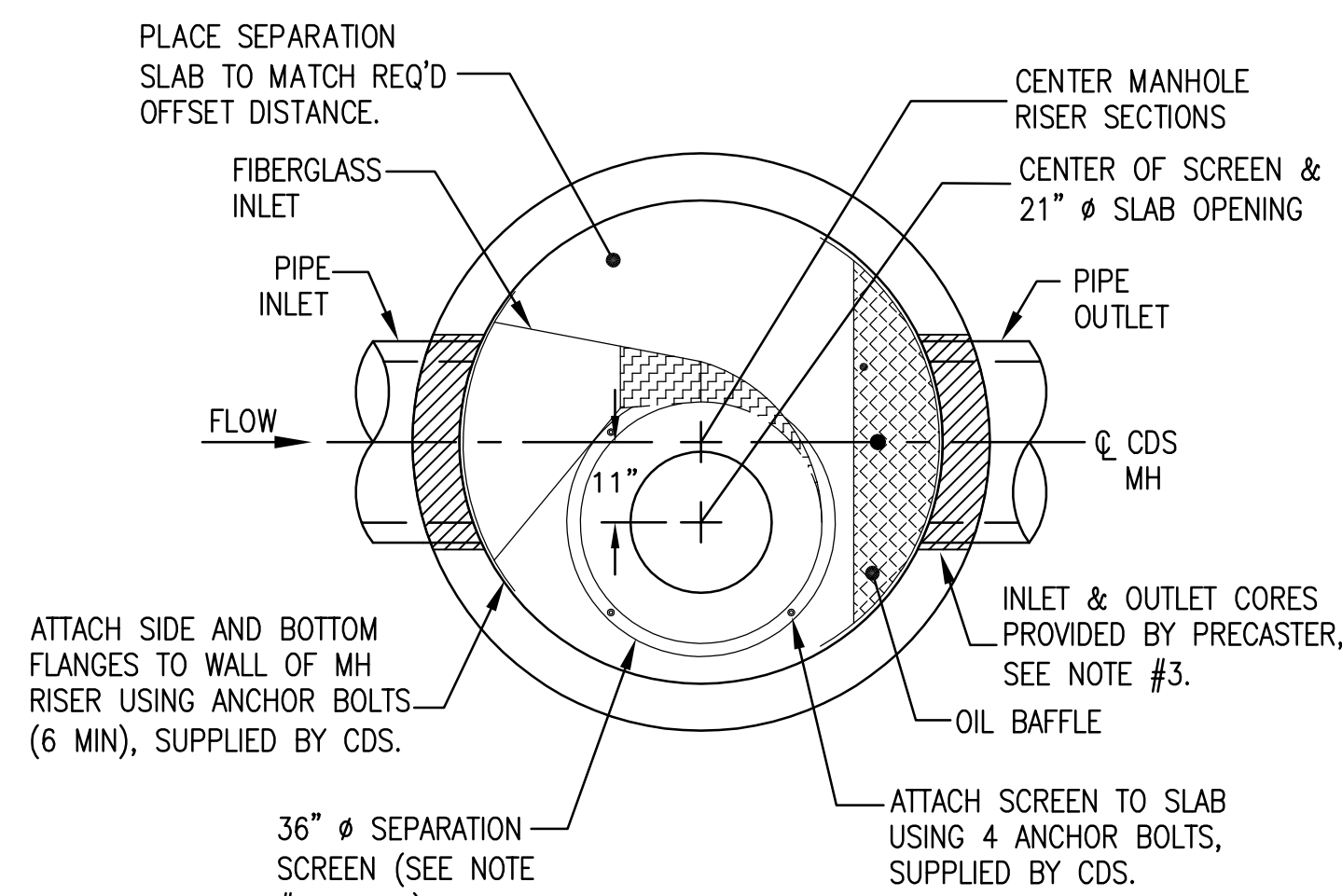
EXP. DATE 9-30-10

PRELIMINARY - NOT FOR CONSTRUCTION



PLAN VIEW

NOTE:
THE INTERNAL COMPONENTS ARE SHOWN IN THE RIGHT-HAND CONFIGURATION—
THESE COMPONENTS MAY BE FURNISHED IN THE MIRROR IMAGE TO THAT SHOWN
(LEFT-HAND CONFIGURATION).



SECTION B-B

NOTES:
1. THE INTERNAL COMPONENTS ARE SHOWN IN THE RIGHT-HAND CONFIGURATION.
2. FOR PROPER INSTALLATION, GREEN FLANGE ON SCREEN FACES UP; RED FLANGE FACES DOWN AND FASTENS TO SEPARATION SLAB.
3. OVERSIZED CORES ARE PROVIDED TO ACCOUNT FOR DIFFERENT PIPEWALL THICKNESSES— ENSURE SUFFICIENT EXCAVATION DEPTH TO ATTAIN (EXTERNAL) SUMP INVERT ELEVATION (SEE SHEET 3).

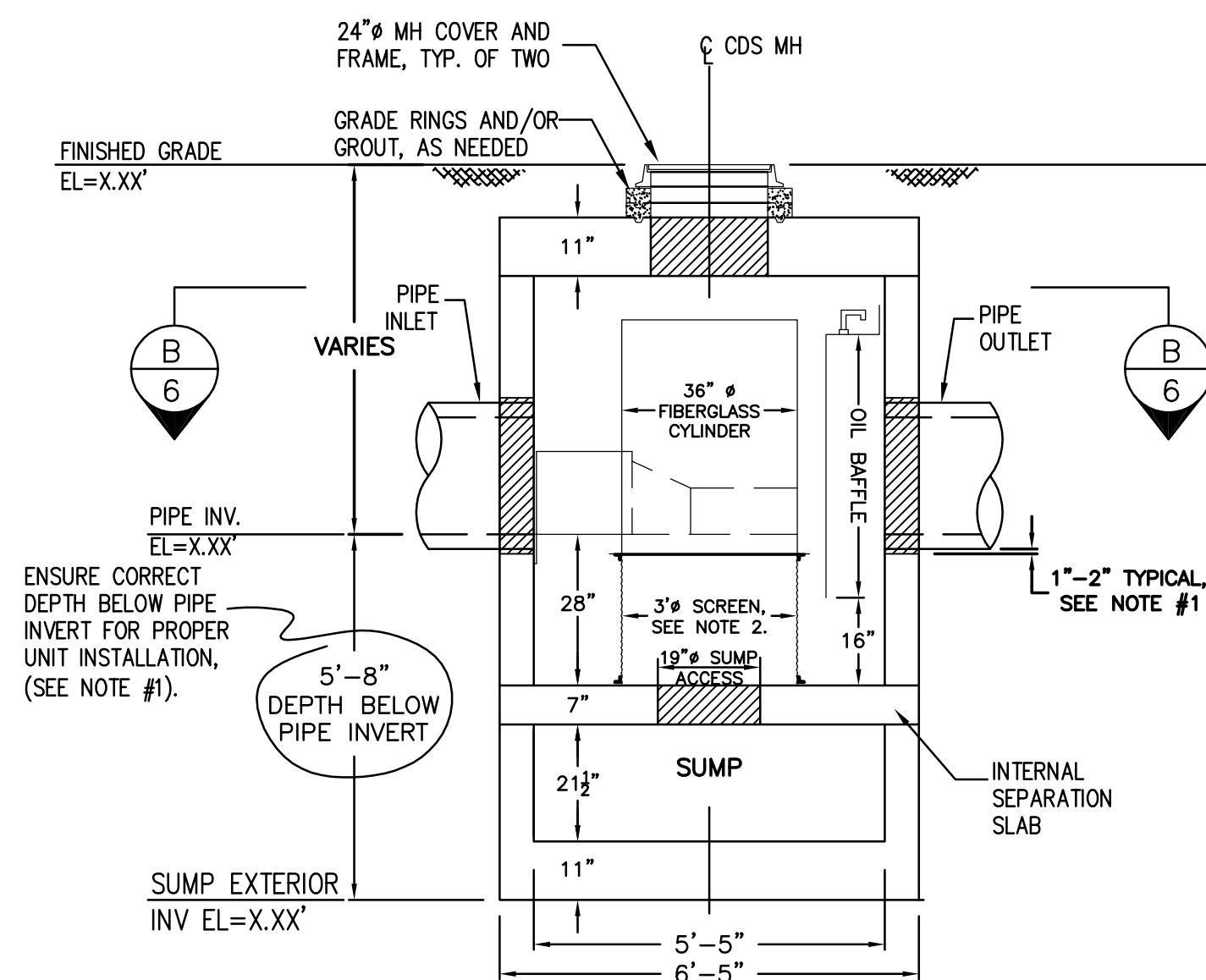
CONSTRUCTION NOTES:

1. APPLY BUTYL MASTIC AND/OR GROUT TO SEAL JOINTS OF MANHOLE STRUCTURE. APPLY LOAD TO MASTIC SEAL IN JOINTS OF MH SECTIONS TO COMPRESS SEALANT IF NECESSARY. UNIT MUST BE WATER TIGHT, HOLDING WATER UP TO FLOW LINE INVERT (MINIMUM).
2. IF SEPARATION SLAB IS NON-INTEGRAL TO THE SEPARATION SECTION OF THE UNIT, SET AND VERIFY TOP ELEVATION BEFORE PLACING MORE PRE CAST COMPONENTS OR BACKFILLING. ENSURE 31" FROM TOP OF SEPARATION SLAB TO PIPE AND CDS INLET INVERT.
3. SET BOTTOM OF OIL BAFFLE 18" ABOVE SEPARATION SLAB FLOOR; DRILL AND INSERT A MINIMUM OF FOURTEEN (14) 3/8" x 3 3/8" SS EXPANSION BOLTS @ 12 O.C. EQUALLY SPACED TO SECURE BAFFLE FLANGE TO RISER WALL—(HARDWARE SUPPLIED BY CDS TECHNOLOGIES).
4. FASTEN FIBERGLASS CYLINDER/INLET TO SCREEN ASSEMBLY USING FOUR (4) SETS OF 1/2" x 1 1/4" SS HEX HEAD BOLTS W/ NUTS AND WASHERS—(HARDWARE SUPPLIED BY CDS TECHNOLOGIES). IN THE LEFT-HANDED CONFIGURATION THE RED PAINTED FLANGE ON THE SCREEN CYLINDER SHALL FACE UP. IN THE RIGHT-HANDED CONFIGURATION, THE GREEN PAINTED FLANGE SHALL FACE UP.
5. VERIFY THAT SCREEN ASSEMBLY IS CENTERED OVER SUMP ACCESS HOLE AND INLET PIPE IS REASONABLY CENTERED WITHIN FIBERGLASS INLET ORIFICE (ADJUST IF NECESSARY); FASTEN SCREEN TO SEPARATION SLAB USING FOUR (4) 3/8" x 3 3/8" SS EXPANSION BOLTS— (HARDWARE SUPPLIED BY CDS TECHNOLOGIES).
6. DRILL AND INSERT A MINIMUM OF SIX (6) 3/8" x 3 3/8" SS EXPANSION BOLTS EQUALLY SPACED TO SECURE FIBERGLASS INLET FLANGE TO RISER WALL—(HARDWARE SUPPLIED BY CDS TECHNOLOGIES).
7. GROUT PIPE CONNECTIONS TO SEAL JOINT.
8. GRADE RINGS AND/OR GROUT TO MATCH FINISHED GRADE AS NEEDED.

CDS MODEL PMSU30_20
STORM WATER TREATMENT UNIT

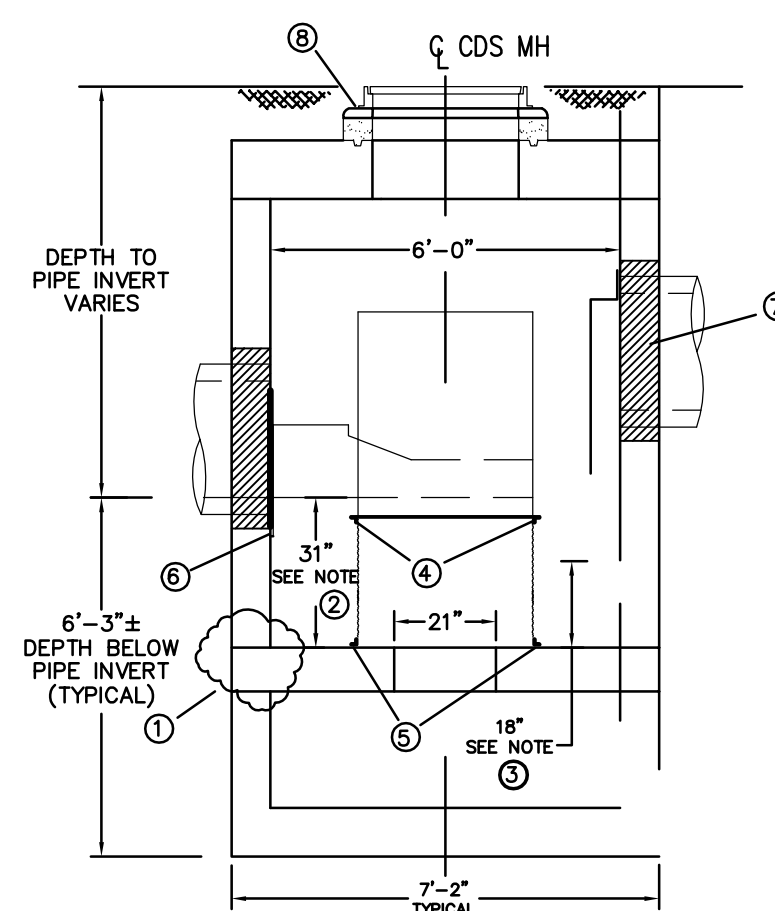
STORM WATER TREATMENT UNIT

NOT TO SCALE

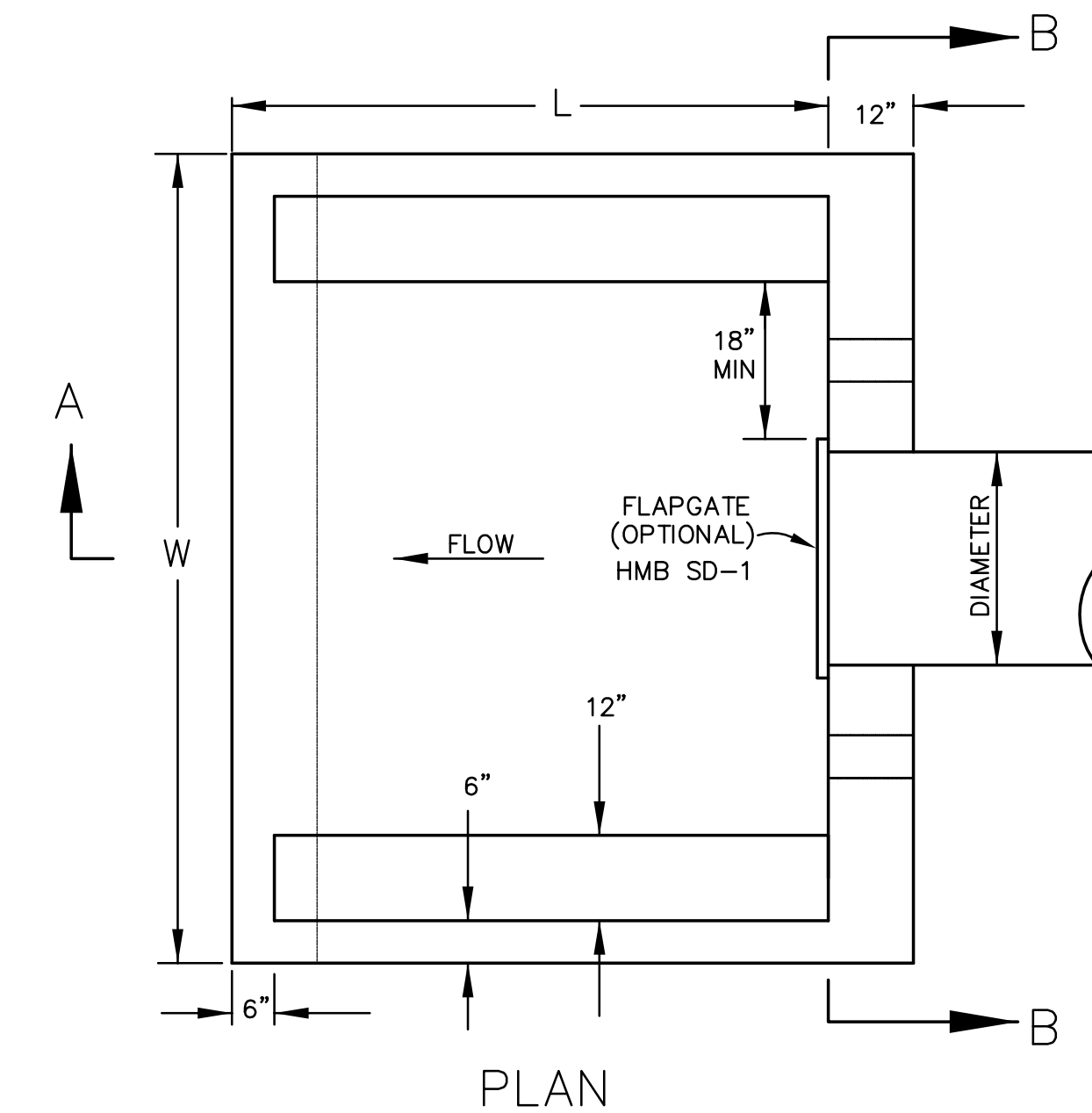


**SECTION A-A
ELEVATION VIEW**

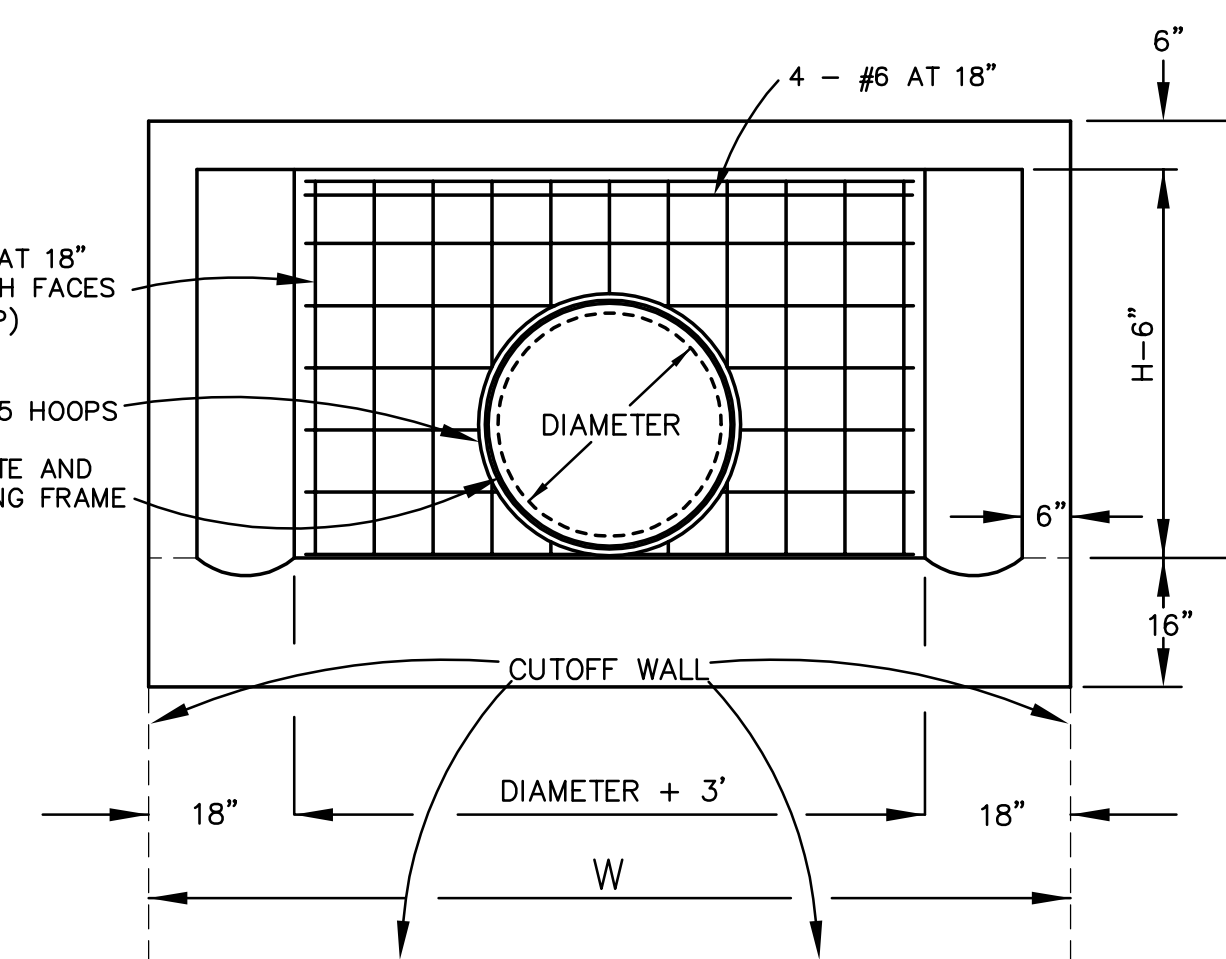
NOTES:
1. OVERSIZED CORES ARE PROVIDED TO ACCOUNT FOR DIFFERENT PIPEWALL THICKNESSES — ENSURE SUFFICIENT EXCAVATION DEPTH TO ATTAIN INDICATED (EXTERNAL) SUMP INVERT ELEVATION.
2. FOR PROPER INSTALLATION, GREEN FLANGE ON SCREEN FACES UP AND FASTENS TO FIBERGLASS CYLINDER FLANGE; RED FLANGE FASTENS TO SEPARATION SLAB WITH PROVIDED ANCHOR BOLTS.



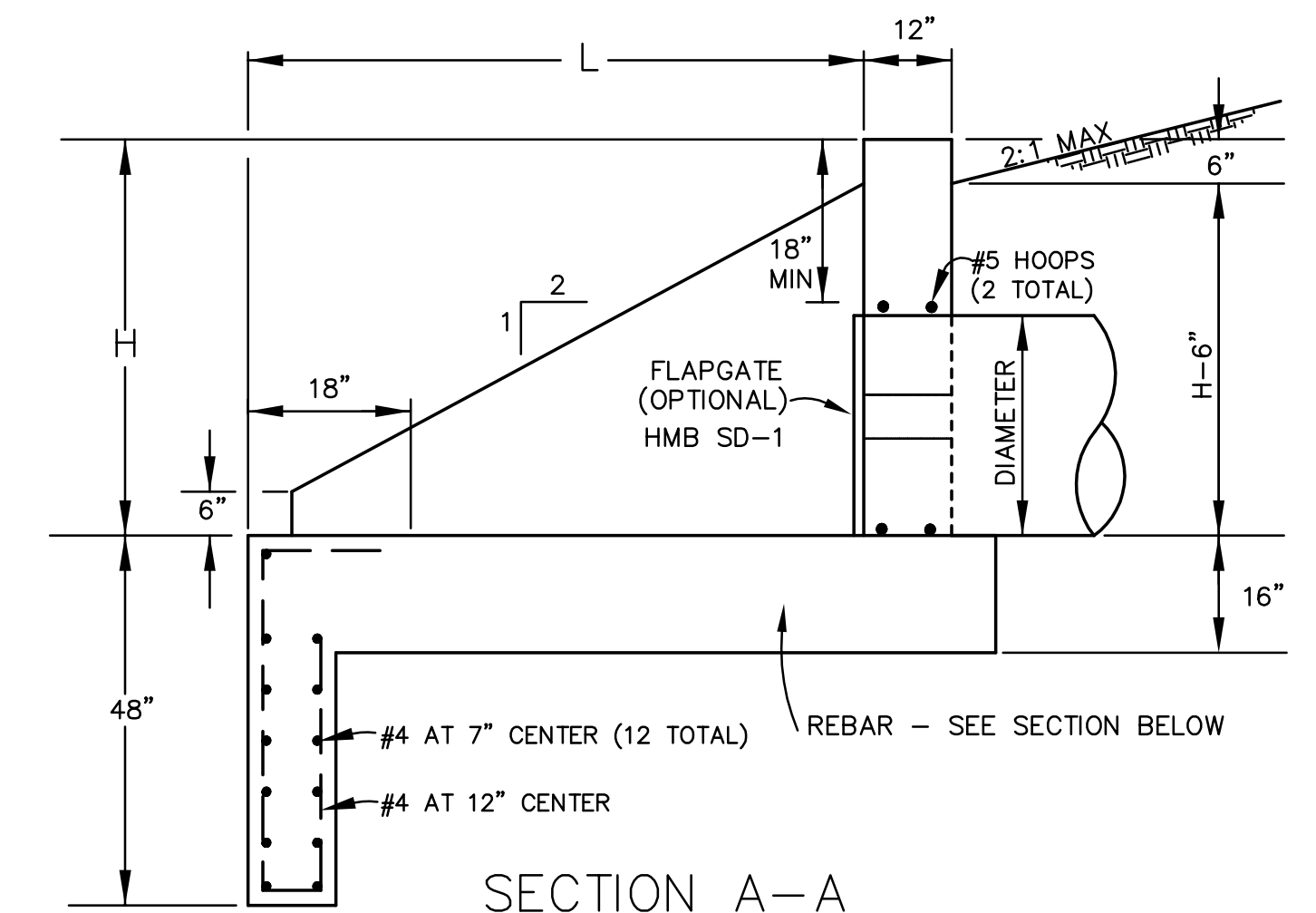
SECTION A-A



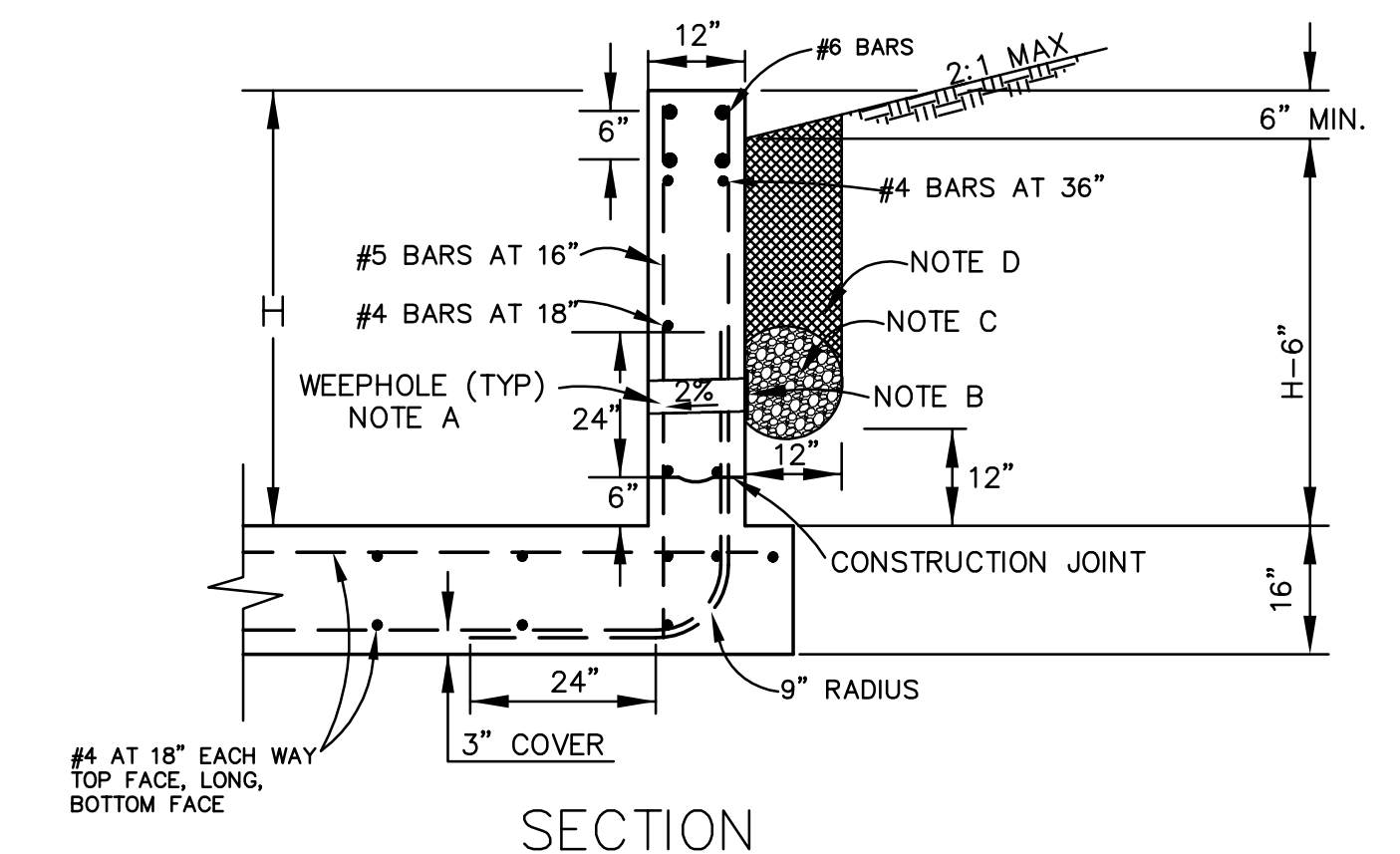
PLAN



SECTION B-B



SECTION A-A



SECTION

NOTES

- A. 4" DIAMETER DRAINS AT 25' MAXIMUM CENTER TO CENTER.
- B. 6" SQUARE ALUMINUM OR GALVANIZED STEEL WIRE 1/4" MESH HARDWARE CLOTH, MINIMUM WIRE DIAMETER 0.025". ANCHOR FIRMLY TO BACKFACE.
- C. ONE CUBIC FOOT PERVIOUS BACKFILL MATERIAL IN A NONWOVEN FILTER FABRIC, SECURELY TIED.
- D. PERVIOUS BACKFILL MATERIAL CONFORMING TO CALTRANS SPECIFICATIONS CONTINUOUS BEHIND RETAINING WALL.
- E. MAINTAIN A MINIMUM OF 2" COVER OVER REBAR EXCEPT AS NOTED.

HEADWALL DETAIL

NOT TO SCALE

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| DATE | NO. | BY | DATE | REVISION | dk APPROV. | AGENCY APPROV. |
|----------------------------|-----|----|------|----------|------------|----------------|
| AUGUST 2009 | | | | | | |
| SCALE: HORIZAS VERT. NOTED | | | | | | |
| DESIGNED | LG | | | | | |
| DRAWN | LG | | | | | |
| PROJ. ENGR. DLF | | | | | | |
| 081003Z01P01.DWG | | | | | | |



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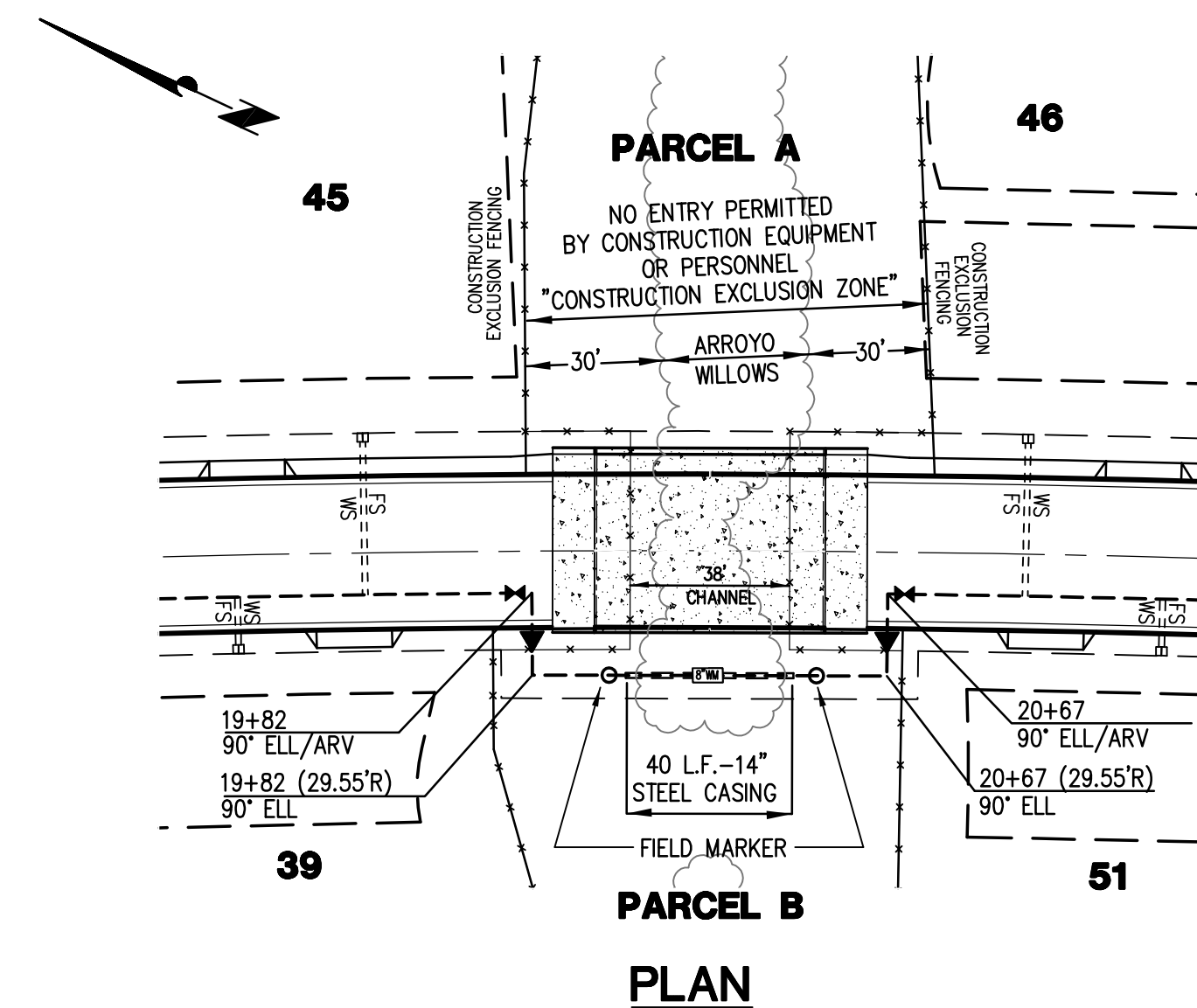
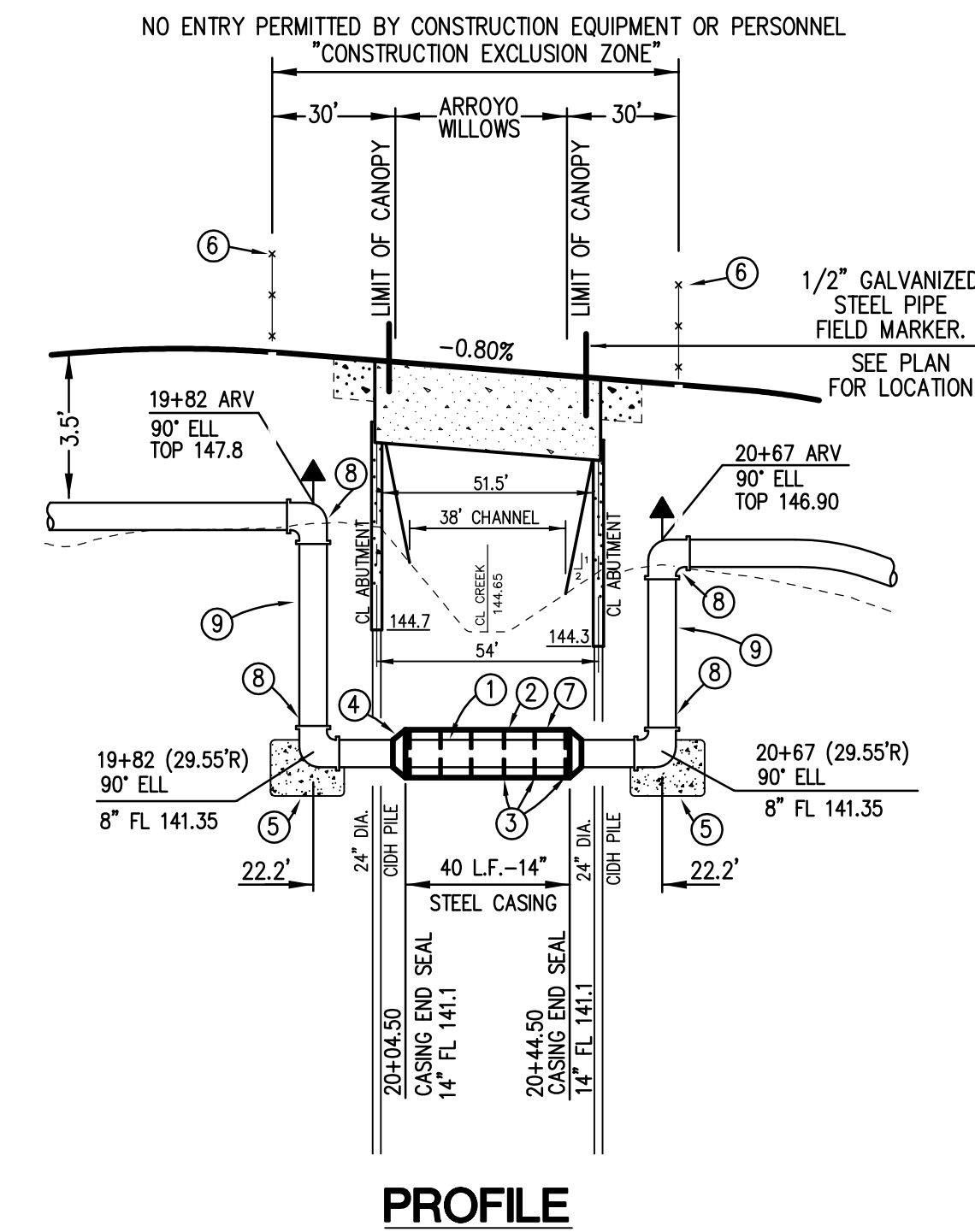
**AILANTO PROPERTIES
PACIFIC RIDGE**
CITY OF HALF MOON BAY CALIFORNIA

**IMPROVEMENT PLAN
STORM DRAIN
DETAILS**

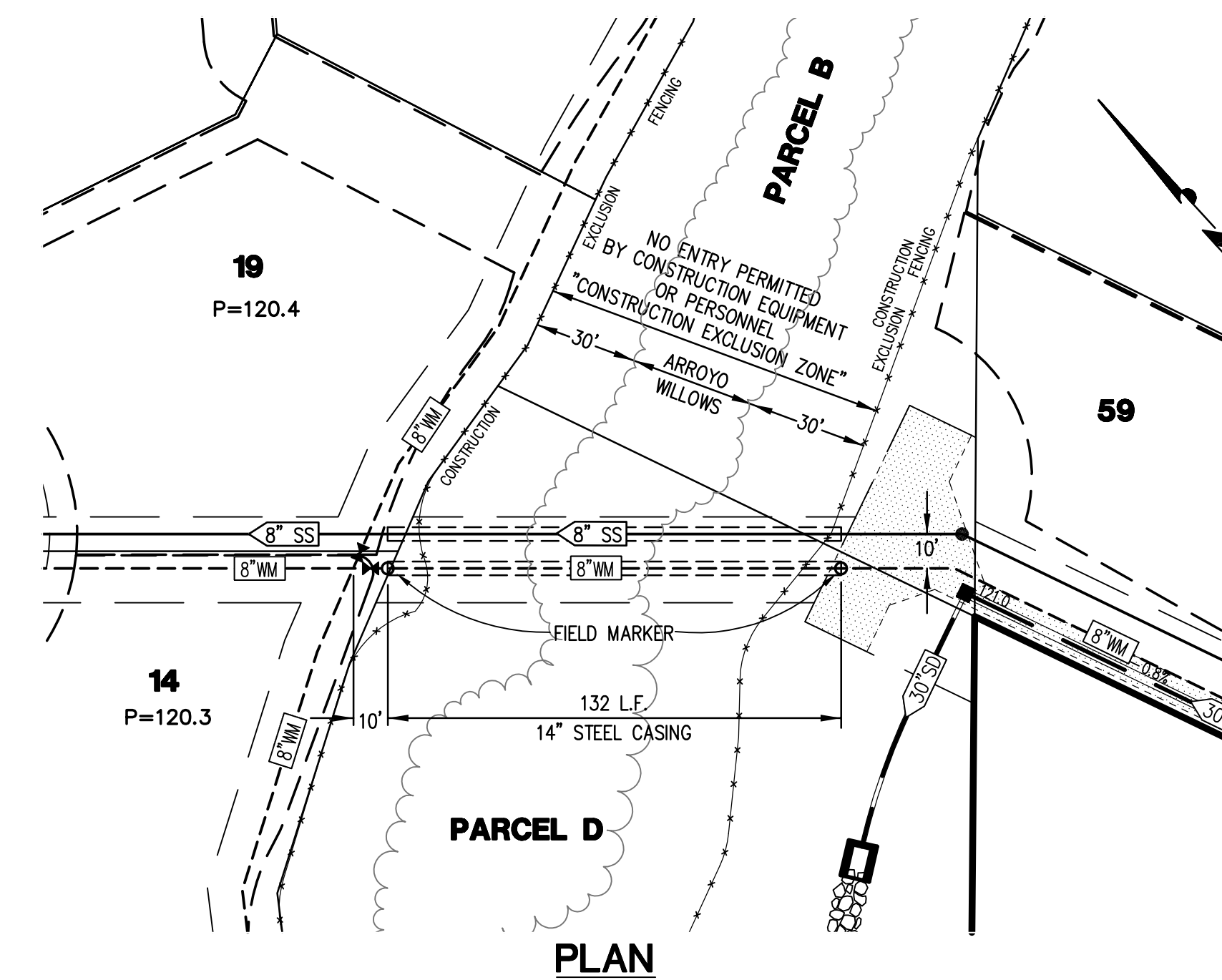
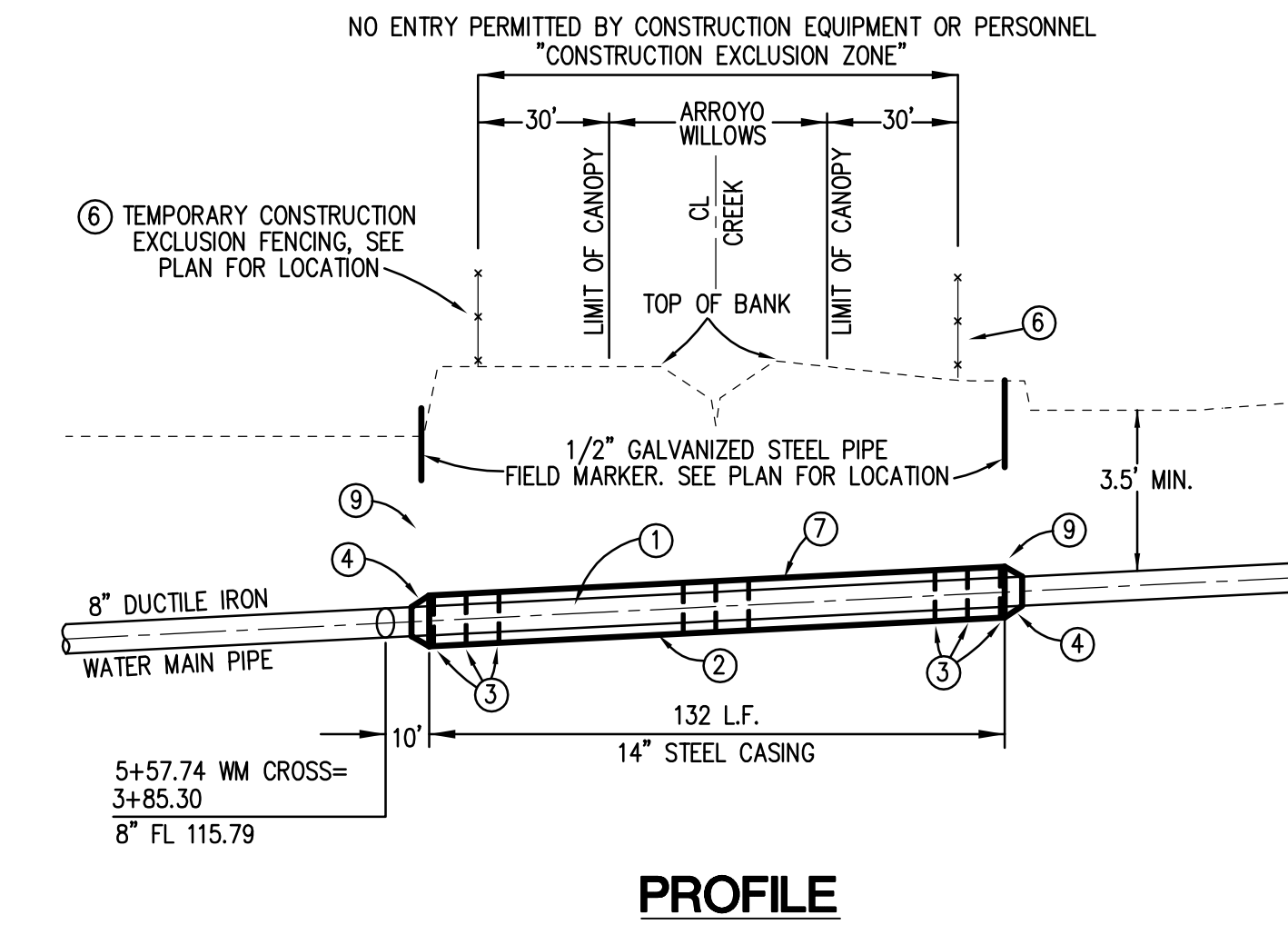
SHEET **17**
OF 18
DK JOB NO.
08-1003-20

JACK AND BORE NOTES

- ①. 8" DUCTILE IRON PIPE WITH RESTRAINED JOINTS. DELETE POLYETHYLENE ENCASEMENT INSIDE CASING PIPE.
- ②. 14" STEEL CASING AS SHOWN ON PLAN SHEETS.
- ③. CASING INSULATORS. PROVIDE 3 CASING INSULATORS FOR EACH 18 FOOT LONG SECTION OF DUCTILE IRON PIPE. LOCATE ONE INSULATOR AT EACH END OF PIPE SECTION 12" FROM THE BELL OR SPIGOT, AND LOCATE THE OTHER INSULATOR AT THE CENTER OF THE PIPE.
- ④. CASING END SEAL. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- ⑤. CONCRETE PIPE SUPPORT AND THRUST BLOCK. UNDER THE FITTING PROVIDE A PIPE SUPPORT WITH A MINIMUM BEARING AREA OF 4 SQUARE FEET AND WITH A MINIMUM THICKNESS OF 12", PLACED ON UNDISTURBED SOIL.
- ⑥. TEMPORARY CONSTRUCTION EXCLUSION FENCING. FENCING FABRIC SHALL BE BLACK MESH WILDLIFE FENCING BURIED 4 TO 6 INCHES IN THE GROUND. INSTALL FABRIC ON STEEL POSTS WHICH ARE DRIVEN INTO THE GROUND. LOCATION OF FENCING SHALL BE DETERMINED IN THE FIELD BY THE DEVELOPER AND THE DISTRICT.
- ⑦. CASING PIPE SHALL BE INSTALLED BY JACK AND BORE METHOD.
- ⑧. DUCTILE IRON VERTICAL AND HORIZONTAL PIPE FITTINGS. NUMBER AND DEGREE OF DEFLECTION AS SHOWN ON PLAN.
- ⑨. CONTRACTOR TO SHORE BORING PIT AND RECEIVING PIT AT LIMITS OF STEEL CASING.



JACK AND BORE AT BRIDGE



JACK AND BORE AT PARCEL D

TYPICAL DETAIL FOR JACK & BORE UNDERCROSSINGS

SCALE: 1"=40'

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| DATE | NO. | BY | DATE | REVISION | dk APPROV. | AGENCY APPROV. |
|----------------------|-----|----|------|----------|------------|----------------|
| AUGUST 2009 | | | | | | |
| SCALE: HORIZ. 1"=40' | | | | | | |
| VERT. 1"=8' | | | | | | |
| DESIGNED | LG | | | | | |
| DRAWN | LG | | | | | |
| PROJ. ENGR. DLF | | | | | | |
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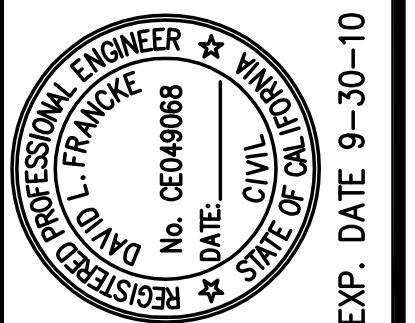
dk CONSULTING
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 1440 Maria Lane, Suite 200, Walnut Creek, California 94596 (925) 932-6888 Tel. (925) 932-0910 Fax

AILANTO PROPERTIES
PACIFIC RIDGE
 CITY OF HALF MOON BAY CALIFORNIA

IMPROVEMENT PLAN
JACK AND BORE
DETAILS

SHEET **18**
 OF 18
 DK JOB NO. **08-1003-20**

| REVISIONS | DATE | BY | DESCRIPTION |
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JOINT TRENCH COMPOSITE PLAN
AILANTO PROPERTIES
PACIFIC RIDGE
 CITY OF HALF MOON BAY, CALIFORNIA

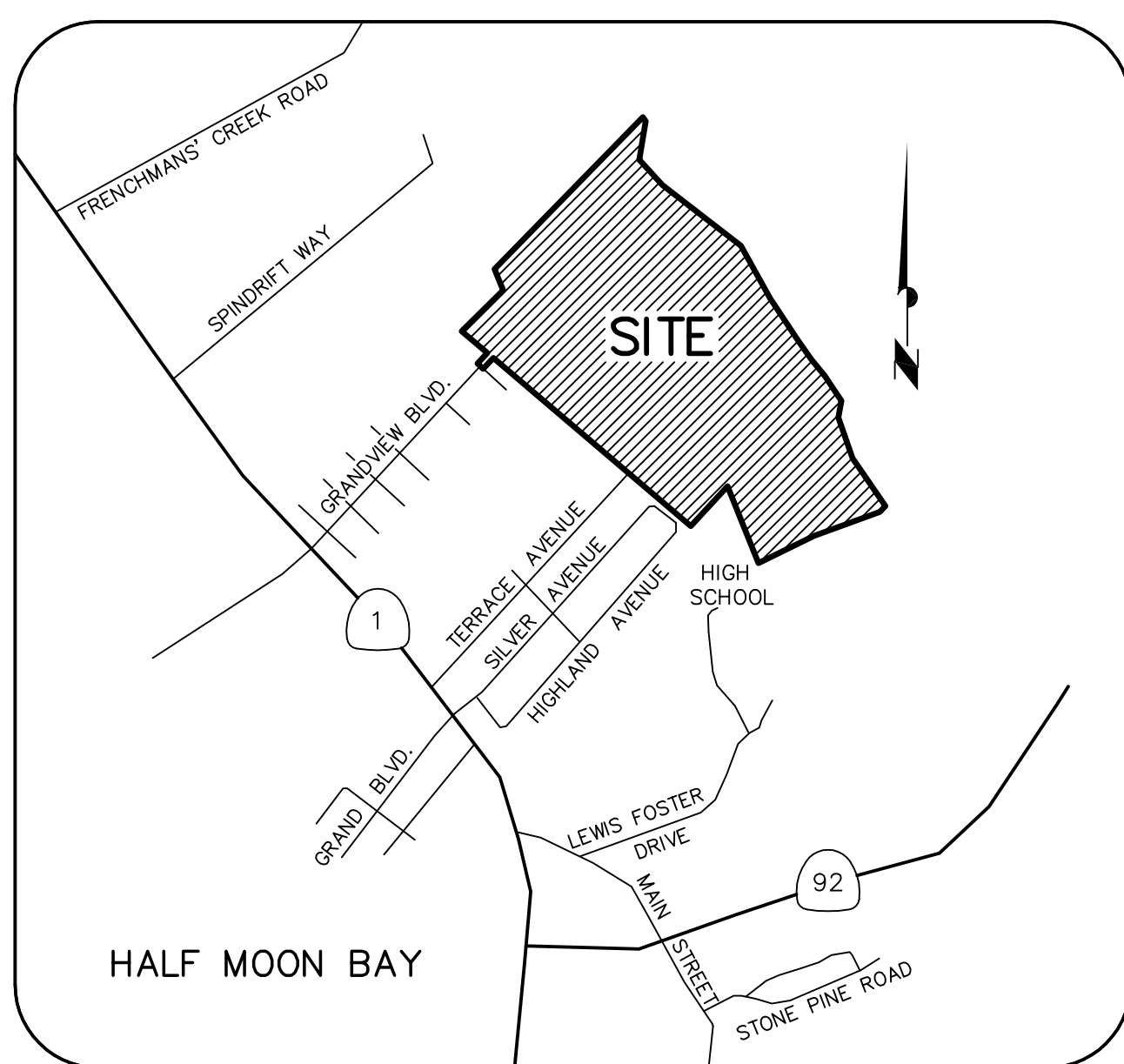
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DK JOB NO.
08-1003-20
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1"=200'
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 DATE:
AUGUST 2009
 SHEET
C1
 1 OF 6 SHEETS

PRELIMINARY - NOT FOR CONSTRUCTION

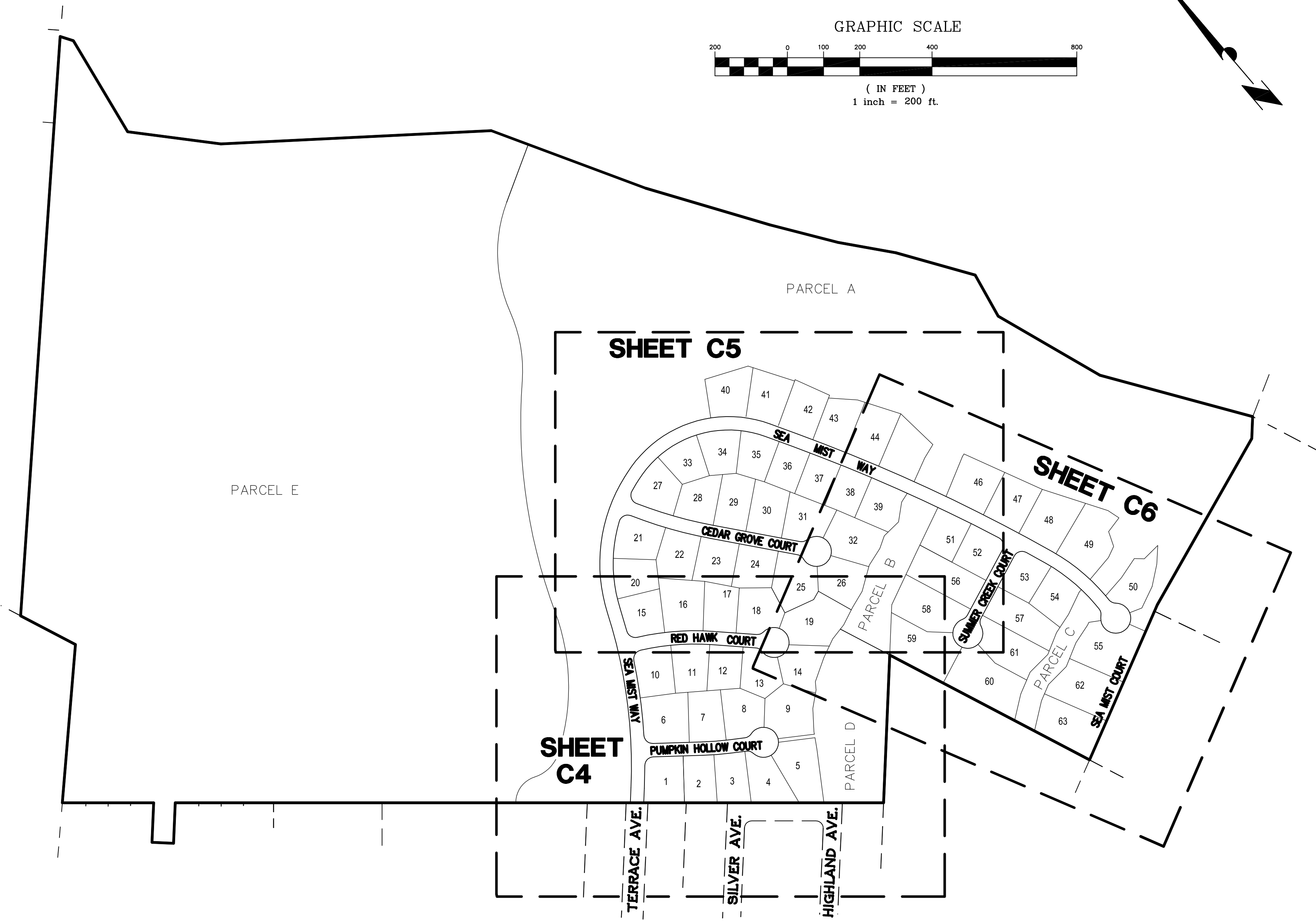


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VICINITY MAP
NOT TO SCALE

| LEGEND | |
|--------|---|
| --- | EXISTING TRENCH OR UTILITIES |
| --- | PROPOSED TRENCH (DISTRIBUTION) |
| --- | PROPOSED TRENCH (SERVICE) |
| □ | EXISTING SECONDARY SPLICE BOX |
| □ | EXISTING PRIMARY SPLICE BOX |
| ② | 17"x30"x18" P.G.&E. SPLICE BOX (U.O.N.) |
| ③ | 3"x5"x3'6" P.G.&E. SPLICE BOX |
| ④ | 4'6"x8'6"x6" P.G.&E. SPLICE BOX |
| ⊕ | 3"x5"x4'6" P.G.&E. SUBSURFACE TRANSFORMER |
| ⊙ | PME P.G.&E. FUSED SWITCH (SIZE AS NOTED) (101"x101"x36"d BOX PAD) |
| ⓧ | 48"x78"x36" TELEPHONE SPLICE BOX |
| □ | 17"x30"x12" CABLE T.V. SPLICE BOX |
| Ⓢ | 26"x28"x44" CABLE T.V. POWER SUPPLY |
| Ⓜ | METERED IRRIGATION CONTROLLER (BY OTHERS) |
| * | EXISTING STREET LIGHT |
| ★ | PROPOSED SINGLE POST TOP STREET LIGHT (100W) |
| □ | #3 1/2 STATE STREET LIGHT SPLICE BOX |
| — | 1-1.5" SL |
| (2W) | 2-#8 CU. WIRE-WITHOUT GROUND (UNLESS OTHERWISE NOTED) |
| (3W) | 3-#8 CU. WIRE-WITHOUT GROUND (UNLESS OTHERWISE NOTED) |
| (3WG) | 2-#8 CU. WIRE & 1-#8 BARE CU. GROUND (UNLESS OTHERWISE NOTED) |
| (4WG) | 3-#8 CU. WIRE & 1-#8 BARE CU. GROUND (UNLESS OTHERWISE NOTED) |
| 12345 | POLE NUMBER |



INDEX MAP
SCALE: 1"=200'

NOTES:

- FIELD ADJUST SERVICE CROSSING TO MINIMIZE INTERFERENCE WITH EXISTING FACILITIES (TYPICAL).
- FIELD ADJUST SPLICE BOXES TO KEEP CLEAR OF SIDEWALK, DRIVEWAYS AND EXISTING FACILITIES (TYPICAL).
- TRANSITION TO VAULTS FROM TRENCH NOT SHOWN, SEE TRANSITION DETAIL SHEET C2 (TYPICAL).
- INCIDENTAL TRENCHING TO SPLICE BOXES NOT SHOWN (TYPICAL). CONTRACTOR TO PROVIDE ADDITIONAL TRENCHING AS REQUIRED FOR CONDUIT ROUTING TO SPLICE BOXES AND CABINETS (TYPICAL).
- OFFSET SPLICE BOXES TO ROUTE TELEPHONE CONDUIT AS NEEDED (TYPICAL).
- ALL P.G. & E. SPLICE BOXES ADJACENT TO TRANSFORMER SHALL BE 26" IN DEPTH (TYPICAL).
- DUE TO UNCERTAINTIES OF THE EXACT LOCATION OF EXISTING FACILITIES, FIELD LOCATING OF PROPOSED FACILITIES MAY BE REQUIRED. CONFIRM WITH VARIOUS UTILITIES FOR EXACT PLACEMENT.
- MINIMUM HORIZONTAL DISTANCE BETWEEN JOINT TRENCH FACILITIES AND WATER SYSTEM FACILITIES SHALL BE 3.0 FEET AND MINIMUM VERTICAL DISTANCE SHALL BE 1.0 FOOT.
- MAINTAIN 3' CLEAR & LEVEL AREA AROUND PRIMARY SPLICE BOXES & TRANSFORMERS.
- COORDINATE TIE-IN WITH UTILITY COMPANY AS REQUIRED.
- RESPECTIVE UTILITY TO OBTAIN CITY OR COUNTY APPROVAL OF ALL ABOVE GROUND EQUIPMENT.
- FIELD LOCATE JOINT TRENCH FACILITIES TO KEEP CLEAR OF SERVICE LATERALS. SERVICE LATERALS TO BE ROUTED TO AVOID SPLICE BOX. (ADDITIONAL P.U.E MAY BE REQUIRED.)

FOR CLARITY - BOXES/PEDESTALS ARE SHOWN AT LARGER SIZE THAN ACTUAL. FIELD ADJUST TO KEEP CLEAR OF DRIVEWAYS. (TYP)

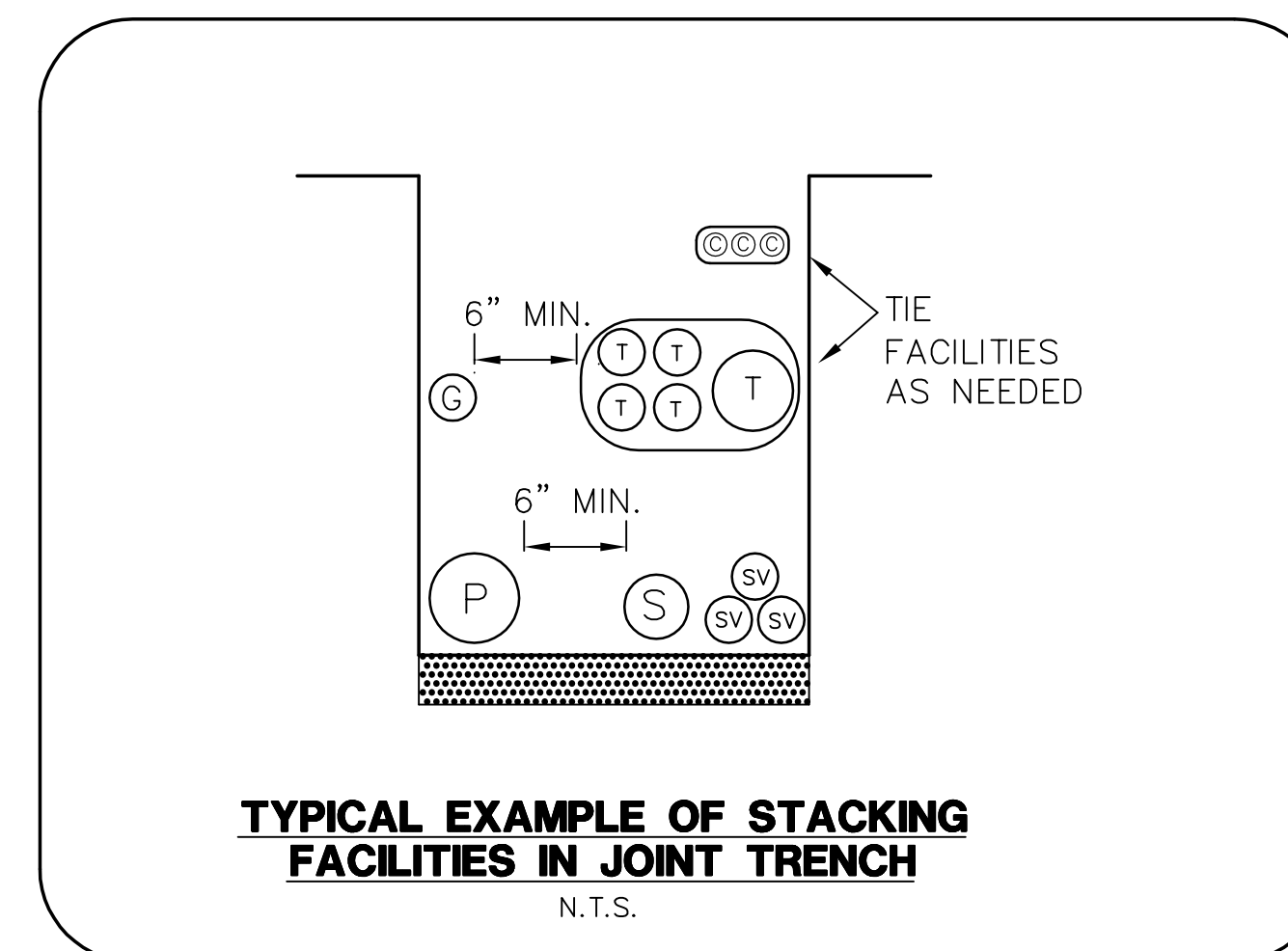
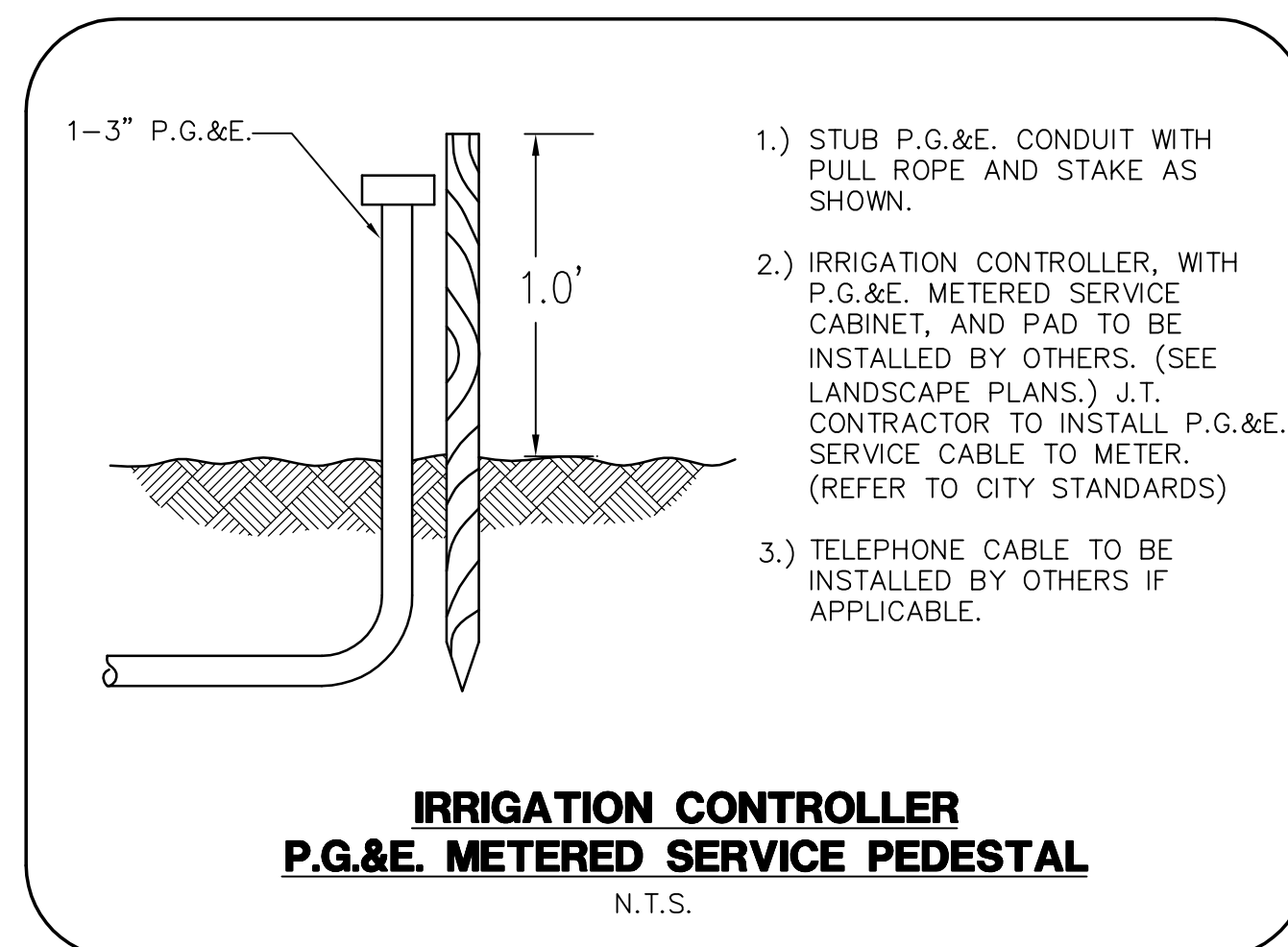
STUB SERVICE COMPLETIONS BY APPLICANT:
CONTRACTOR TO TRENCH, INSTALL FACILITIES AND BACKFILL SERVICE COMPLETIONS.

R/W AND P.U.E ACQUISITION NOTE:
CONTRACTOR TO VERIFY RIGHT OF WAY AND PUBLIC UTILITY EASEMENT ACQUISITION WITH THE APPLICANT PRIOR TO CONSTRUCTION WITHIN AREAS OF QUESTION.

NOTE:
ALL BOXES TO BE INSTALLED WITHIN THE R/W AND/OR P.U.E. AREA.

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JOINT TRENCH OCCUPANCY GUIDE

| SECTION | G | T | C | S | P |
|---------|---|---|---|---|---|
| A* | X | X | X | X | X |
| B* | X | X | | X | X |
| C* | X | | X | X | X |
| D* | | X | X | X | X |
| E* | X | | | X | X |
| F* | | X | | X | X |
| G* | | | X | X | X |
| H* | | | | X | X |
| I | X | X | X | | |
| J | X | X | | | |
| K | X | | X | | |
| L | | X | X | | |
| M | X | X | X | X | |
| N | X | X | | X | |
| O | X | | X | X | |
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| Q | X | | | X | |
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| V | | | X | | |
| W | | | | X | |

*THESE SECTIONS MAY OR MAY NOT CONTAIN SECONDARY

NOTE:

A.) TRENCH CONFIGURATIONS SHOWN ARE FOR INSTALLATIONS WHERE EACH OCCUPANT IS UTILIZING HIS ENTIRE SPACE ALLOCATION. OTHER CONFIGURATIONS, OR REDUCED DIMENSIONS, MAY BE USED PROVIDED THAT MINIMUM COVER AND CLEARANCES ARE MAINTAINED.

B.) CONTRACTOR TO ADJUST TRENCH DEPTHS AT ALL JOINT TRENCH LATERAL CROSSINGS TO MAINTAIN REQUIRED CLEARANCES BETWEEN ALL PARTICIPATING UTILITIES.

LEGEND

- MEETS UTILITY TRENCH ALLOTMENT
- EXCEEDS UTILITY TRENCH ALLOTMENT
- P** P.G.&E. PRIMARY
- S** P.G.&E. SECONDARY
- SL** STREET LIGHTING
- G** PG&E GAS
- T** SBC TELEPHONE
- C** COMCAST CABLE TELEVISION

JOINT TRENCH COMPOSITE PLAN

**AILANTO PROPERTIES
PACIFIC RIDGE**

CITY OF HALF MOON BAY, CALIFORNIA

REVISIONS

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PROFESSIONAL ENGINEER
DAVID L. FRANKIE
No. CEC049068
DATE: 8/18/2009
CIVIL
STATE OF CALIFORNIA
EXP. DATE 9-30-10

PR CONSULTING
PLANNING · ENGINEERING · CONSTRUCTION

1440 Maria Lane, Suite 200, Walnut Creek, California 94596 (925) 932-0910 Tel. (925) 932-0910 Fax

PRELIMINARY - NOT FOR CONSTRUCTION

DK JOB NO.
08-1003-20

SCALE:
NONE

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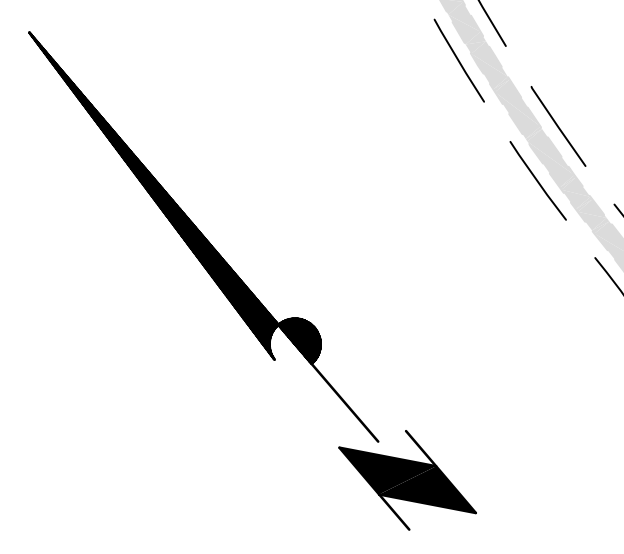
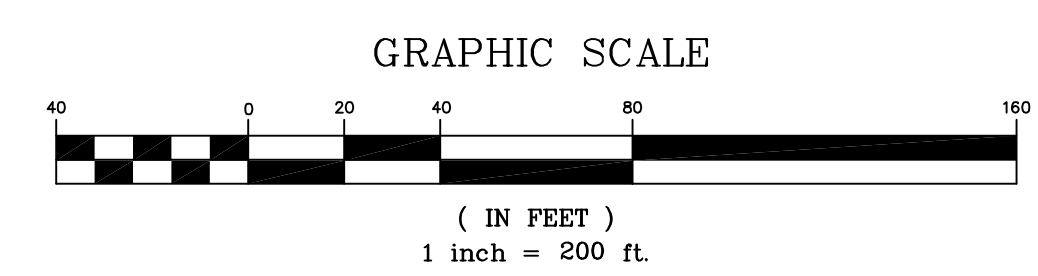
DATE:
AUGUST 2009

SHEET **C3**
3 OF 6 SHEETS



1-800-227-2600

NOTE:
 A) CALL USA TO FIELD VERIFY TRENCH LOCATION.
 B) COORDINATE TIE IN WITH UTILITY COMPANY AS REQUIRED.
 C) HAND DIG TO EXPOSE ALL EXISTING FACILITIES.



PARCEL A

PARCEL B

SHEET C4

SHEET C6



| REVISIONS | DATE | BY | DESCRIPTION |
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PROFESSIONAL ENGINEER
 DAVID L. FRANKE No. CCO49068
 STATE OF CALIFORNIA CIVIL
 EXP. DATE 9-30-10

JOINT TRENCH COMPOSITE PLAN
 AILANTO PROPERTIES
 PACIFIC RIDGE
 CITY OF HALF MOON BAY, CALIFORNIA

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 1440 Maria Lane, Suite 200, Walnut Creek, California 94596 (925) 932-6868 Tel. (925) 932-0910 Fax

DK JOB NO.
08-1003-20
 SCALE:
1" = 40'
 DRAWN:
LG
 DATE:
AUGUST 2009
 SHEET **C5**
 5 OF 6 SHEETS

1-800-227-2600

PRELIMINARY - NOT FOR CONSTRUCTION

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OWNER'S STATEMENT

THE UNDERSIGNED, BEING THE ONLY PARTY HAVING A RECORD TITLE INTEREST IN THE LANDS DELINEATED AND EMBRACED WITHIN THE HEAVY BLACK LINES UPON THIS MAP, DOES HEREBY CONSENT TO THE MAKING AND RECORDATION OF THE SAME; AND DO HEREBY DEDICATE TO THE CITY OF HALF MOON BAY FOR PUBLIC STREET AND UTILITY PURPOSES, SHOWN HEREON AS: SEA MIST WAY, PUMPKIN HOLLOW COURT, RED HAWK COURT, CEDAR GROVE COURT, SUMMER CREEK COURT AND SEA MIST COURT.

PARCELS A, B, AND C, ARE OFFERED TO THE HOMEOWNERS ASSOCIATION FOR THIS SUBDIVISION ENTITLED "PACIFIC RIDGE AT HALF MOON BAY", FOR AN OPEN SPACE PARCEL.

PARCEL D IS OFFERED TO THE CITY OF HALF MOON BAY FOR PARK PURPOSES.

PARCEL E IS RETAINED BY THE OWNERS FOR FUTURE DEDICATION AS OPEN SPACE.

THE AREA DESIGNATED AS "PUBLIC ACCESS EASEMENT" OR "P.A.E." IS DEDICATED TO THE CITY OF HALF MOON BAY FOR PEDESTRIAN ACCESS ACROSS THE SO DESIGNATED PORTIONS.

THE AREA DESIGNATED AS "PUBLIC UTILITY EASEMENT", OR "P.U.E." IS HEREBY DEDICATED TO THE PUBLIC AS NON-EXCLUSIVE EASEMENTS FOR PUBLIC USE FOR PUBLIC UTILITY PURPOSES TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS FOR THE CONSTRUCTION, MAINTENANCE, USE AND OPERATION OF, BUT NOT LIMITED TO, GAS MAINS, ELECTRICAL DISTRIBUTION, TELEPHONE, CABLE TV, WATER PIPELINES, AND OTHER PUBLIC UTILITY WIRES, CABLES, AND CONDUITS, AND ALL APPURTENANCES TO THE ABOVE, OVER, UNDER AND UPON SAID AREAS.

THE AREA DESIGNATED AS "EMERGENCY VEHICLE ACCESS EASEMENT" OR "E.V.A.E." IS DEDICATED TO THE PUBLIC AND THE CITY OF HALF MOON BAY OR ITS DESIGNEE FOR INGRESS AND EGRESS PURPOSES OF EMERGENCY VEHICLES.

THE AREA DESIGNATED AS "PRIVATE STORM DRAIN EASEMENT" OR "P.S.D.E." IS NOT DEDICATED FOR USE BY THE GENERAL PUBLIC, BUT IS FOR USE OF THE HOMEOWNER'S OF PACIFIC RIDGE AT HALF MOON BAY FOR STORM DRAIN PURPOSES, INCLUDING CONSTRUCTION, ACCESS, MAINTENANCE OF WORKS, IMPROVEMENTS AND STRUCTURES AND THE CLEARING OF OBSTRUCTIONS AND VEGETATION. NO BUILDINGS, STRUCTURES, FENCES OR TREES MAY BE PLACED ON SAID EASEMENT, ACCORDING TO THE RESTRICTIONS GOVERNING THIS SUBDIVISION.

THE AREA DESIGNATED AS "TRAIL EASEMENT" OR "T.E." IS OFFERED FOR DEDICATION TO THE PUBLIC FOR PEDESTRIAN INGRESS AND EGRESS.

THE AREA DESIGNATED AS "SANITARY SEWER EASEMENT" OR "S.S.E." IS OFFERED FOR DEDICATION TO THE CITY OF HALF MOON BAY, OR ITS DESIGNEE IN GROSS AS AN NON-EXCLUSIVE SUBSURFACE EASEMENT AND NON-EXCLUSIVE SURFACE EASEMENT FOR SANITARY SEWER PURPOSES INCLUDING CONSTRUCTION, ACCESS, MAINTENANCE OF WORKS, IMPROVEMENTS AND STRUCTURES, AND THE CLEARING OF OBSTRUCTIONS AND VEGETATION. NO BUILDINGS OR STRUCTURES MAY BE PLACED ON SAID EASEMENT, NOR SHALL ANYTHING BE DONE THEREON WHICH MAY INTERFERE WITH THE CITY OF HALF MOON BAY'S FULL ENJOYMENT OF SAID EASEMENT.

THE AREA DESIGNATED AS "WATER MAINTENANCE EASEMENT" OR "W.M.E." IS DEDICATED TO THE COASTSIDE COUNTY WATER DISTRICT, AS A PERPETUAL EASEMENT FOR THE PURPOSE OF CONSTRUCTING, REPLACING, MAINTAINING, OPERATING AND USING AS THE DISTRICT MAY SEE FIT, FOR THE TRANSMISSION AND DISTRIBUTION OF WATER, A PIPE OR WATER PIPELINES AND ALL NECESSARY FIXTURES INCLUDING UNDERGROUND TELEMTRY AND ELECTRICAL CABLES OR APPURTENANCES THERETO, IN, UNDER, ALONG AND ACROSS SAID EASEMENT. TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS FROM SAID EASEMENT AND THE RIGHT AT ALL TIMES TO ENTER IN, OVER AND UPON SAID EASEMENT AND EVERY PART THEREOF.

THIS MAP SHOWS ALL EASEMENTS ON THE PREMISES OF RECORD.

AILANTO PROPERTIES, INC.

BY: _____ DATE: _____

NAME: _____

TITLE: _____

PACIFIC RIDGE AT HALF MOON BAY

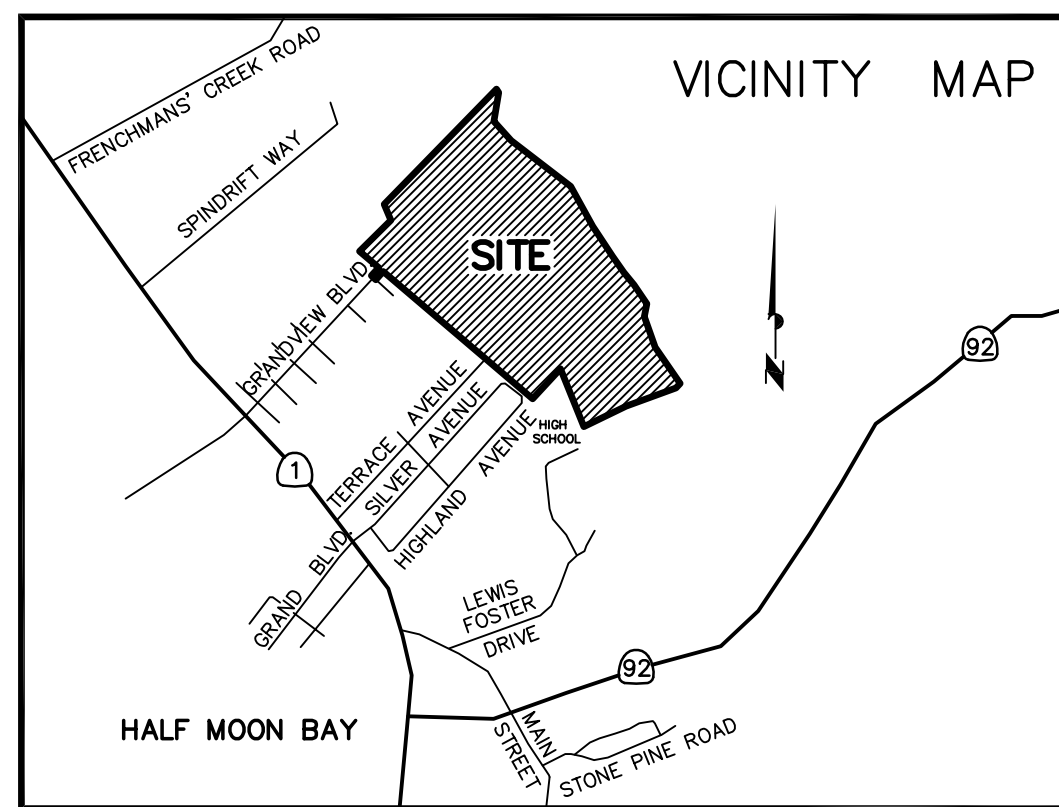
THE PARCEL DELINEATED ON THE RECORD OF SURVEY 18 LLS MAPS AT PAGE 35.

HALF MOON BAY, SAN MATEO COUNTY, CALIFORNIA

dk CONSULTING

CIVIL ENGINEERING-PLANNING-SURVEYING
1440 MARIA LANE, SUITE 200
WALNUT CREEK, CALIFORNIA 94596

AUGUST 2009



CLERK OF THE BOARD OF SUPERVISORS STATEMENT

I, _____, DO HEREBY CERTIFY, AS CHECKED BELOW, THAT:

- A TAX BOND ASSURING THE PAYMENT OF ALL TAXES WHICH ARE NOW A LIEN BUT NOT YET PAYABLE, HAS BEEN RECEIVED AND FILED WITH THE BOARD OF SUPERVISORS OF SAN MATEO COUNTY, STATE OF CALIFORNIA.
- ALL TAXES DUE HAVE BEEN PAID AS CERTIFIED BY THE COUNTY REDEMPTION OFFICE.

DATE: _____

BY: _____

CITY CLERK'S STATEMENT

STATE OF CALIFORNIA }
COUNTY OF _____}SS

I, _____, CITY CLERK OF THE CITY COUNCIL OF THE CITY OF HALF MOON BAY DO HEREBY CERTIFY THAT THE ABOVE AND FORGOING MAP ENTITLED "PACIFIC RIDGE AT HALF MOON BAY" WAS PRESENTED TO SAID COUNCIL AS PROVIDED BY LAW AT A REGULAR MEETING THEREOF HELD ON THE _____ DAY OF _____, 20____, AND THAT SAID CITY COUNCIL DID THEREUPON APPROVE SAID MAP. I FURTHER CERTIFY THAT ALL BONDS AS REQUIRED BY LAW TO ACCOMPANY THE WITHIN MAP HAVE BEEN APPROVED BY THE CITY COUNCIL OF HALF MOON BAY AND FILED IN MY OFFICE.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS _____ DAY OF _____, 20____.

CITY CLERK
CITY OF HALF MOON BAY,
CALIFORNIA
SIOBHAN SMITH

OWNER'S ACKNOWLEDGMENT:

STATE OF CALIFORNIA }
COUNTY OF _____}SS

ON _____, 200____, BEFORE ME, _____, PERSONALLY APPEARED _____, WHO PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE TO BE THE PERSON(S) WHOSE NAME(S) IS/ARE SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE/SHE/THEY EXECUTED THE SAME IN HIS/HER/THEIR AUTHORIZED CAPACITY(IES), AND THAT BY HIS/HER/THEIR SIGNATURE(S) ON THE INSTRUMENT THE PERSON(S), OR THE ENTITY UPON BEHALF OF WHICH THE PERSON(S) ACTED, EXECUTED THE INSTRUMENT.

I CERTIFY UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE STATE OF CALIFORNIA THAT THE FORGOING PARAGRAPH IS TRUE AND CORRECT.

WITNESS MY HAND AND OFFICIAL SEAL

SIGNATURE: _____

NOTARY NAME: _____

NOTARY PHONE: _____

NOTARY REGISTRATION NUMBER: _____

MY COMMISSION EXPIRES: _____

COUNTY OF PRINCIPLE PLACE OF BUSINESS: _____

SURVEYOR'S STATEMENT:

THIS MAP WAS PREPARED BY ME OR UNDER MY DIRECTION AND IS BASED UPON A FIELD SURVEY IN CONFORMANCE WITH THE REQUIREMENTS OF THE SUBDIVISION MAP ACT AND LOCAL ORDINANCE AT THE REQUEST OF AILANTO PROPERTIES, INC. IN JANUARY 2009 AND IS TRUE AND COMPLETE AS SHOWN. I HEREBY STATE THAT THIS FINAL MAP SUBSTANTIALLY CONFORMS TO THE CONDITIONALLY APPROVED TENTATIVE MAP. I HEREBY STATE THAT THE MONUMENTS WILL BE SET IN THE POSITIONS INDICATED BY DECEMBER 31, 2011, AND THAT SAID MONUMENTS WILL BE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THE AREA OF IS 115.00 ACRES MORE OR LESS.

DANIEL DRUMMOND

DATED: _____

L.S.. NO. 6333

REGISTRATION EXPIRES: 12/31/10

PACIFIC RIDGE AT HALF MOON BAY

THE PARCEL DELINEATED ON THE
RECORD OF SURVEY 18 LLS MAPS
AT PAGE 35.

HALF MOON BAY, SAN MATEO COUNTY, CALIFORNIA

dk CONSULTING

CIVIL ENGINEERING-PLANNING-SURVEYING
1440 MARIA LANE, SUITE 200
WALNUT CREEK, CALIFORNIA 94596

AUGUST 2009

SCALE: 1"=200'

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00083071

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CL 10' T.E.
SHEET 9

PARCEL E
SHEET 9

PARCEL A
SHEET 9

CITY ENGINEER'S STATEMENT

I, _____, CITY ENGINEER OF THE CITY OF HALF MOON BAY, COUNTY OF SAN MATEO, STATE OF CALIFORNIA, DO HEREBY STATE THAT I HAVE EXAMINED THIS MAP ENTITLED "PACIFIC RIDGE AT HALF MOON BAY", AND THAT SAID SUBDIVISION IS SUBSTANTIALLY THE SAME AS IT APPEARED ON THE TENTATIVE MAP APPROVED BY _____ ON _____ AND ANY APPROVED ALTERATIONS THEREOF, AND THAT ALL PROVISIONS OF THE SUBDIVISION MAP ACT, AND LOCAL ORDINANCES APPLICABLE AT THE TIME OF APPROVAL HAVE BEEN COMPLIED WITH.

DATE: _____

MO SHARMA
INTERIM CITY ENGINEER

CITY SURVEYOR'S STATEMENT

I, _____, CITY SURVEYOR OF THE CITY OF HALF MOON BAY, COUNTY OF SAN MATEO, STATE OF CALIFORNIA, DO HEREBY STATE THAT I HAVE EXAMINED THIS MAP ENTITLED "PACIFIC RIDGE AT HALF MOON BAY", AND I AM SATISFIED THAT THE MAP IS TECHNICALLY CORRECT.

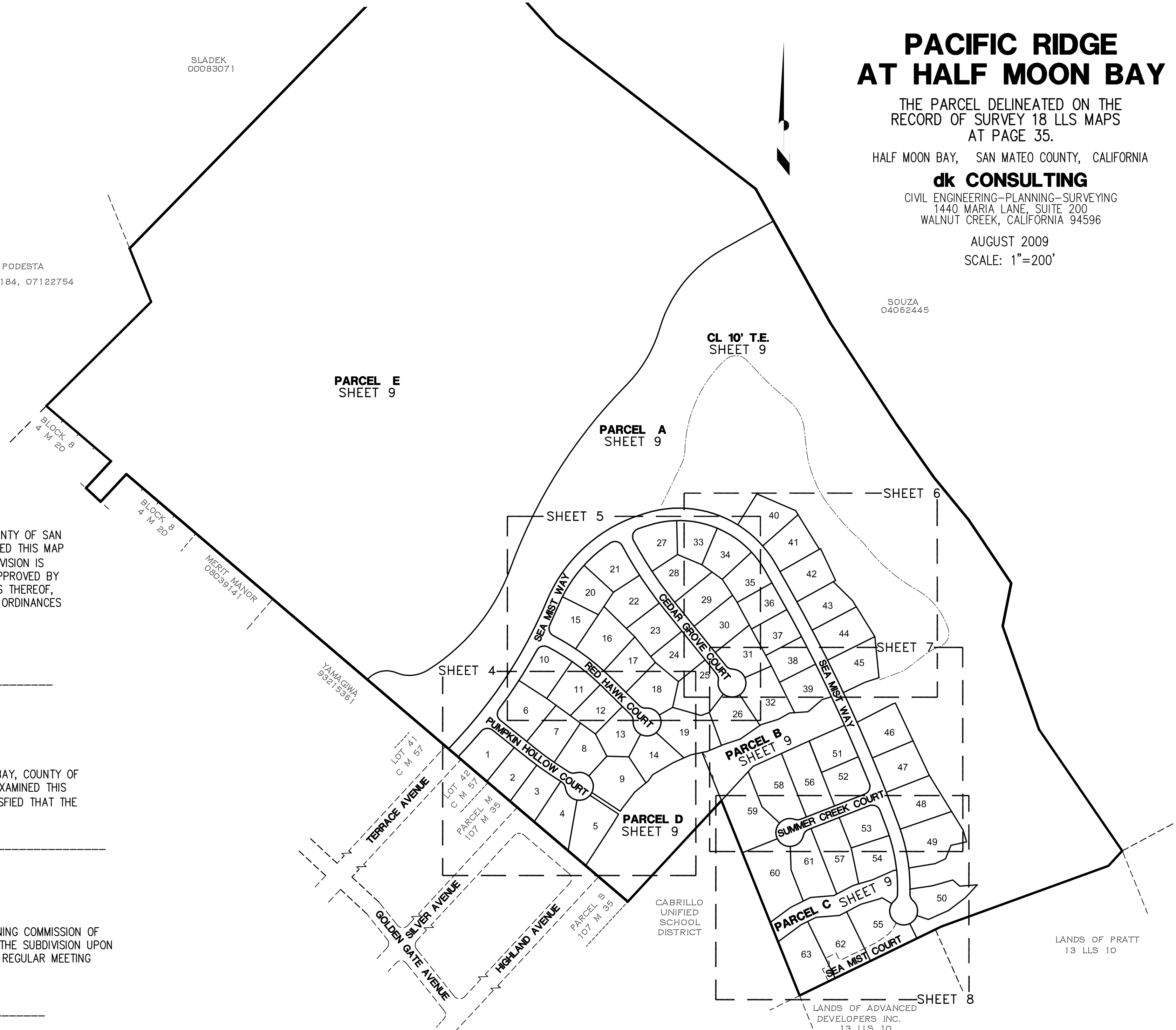
DATE: _____

PLANNING COMMISSION STATEMENT

I, _____, PLANNING DIRECTOR, HEREBY STATE THAT THE PLANNING COMMISSION OF THE CITY OF HALF MOON BAY HAS APPROVED THE TENTATIVE MAP OF THE SUBDIVISION UPON WHICH THIS FINAL MAP IS BASED. SAID APPROVAL WAS GRANTED AT A REGULAR MEETING THEREOF HELD ON _____

DATE: _____

STEVE FLINT



PACIFIC RIDGE AT HALF MOON BAY

THE PARCEL DELINEATED ON THE
RECORD OF SURVEY 18 LLS MAPS
AT PAGE 35.

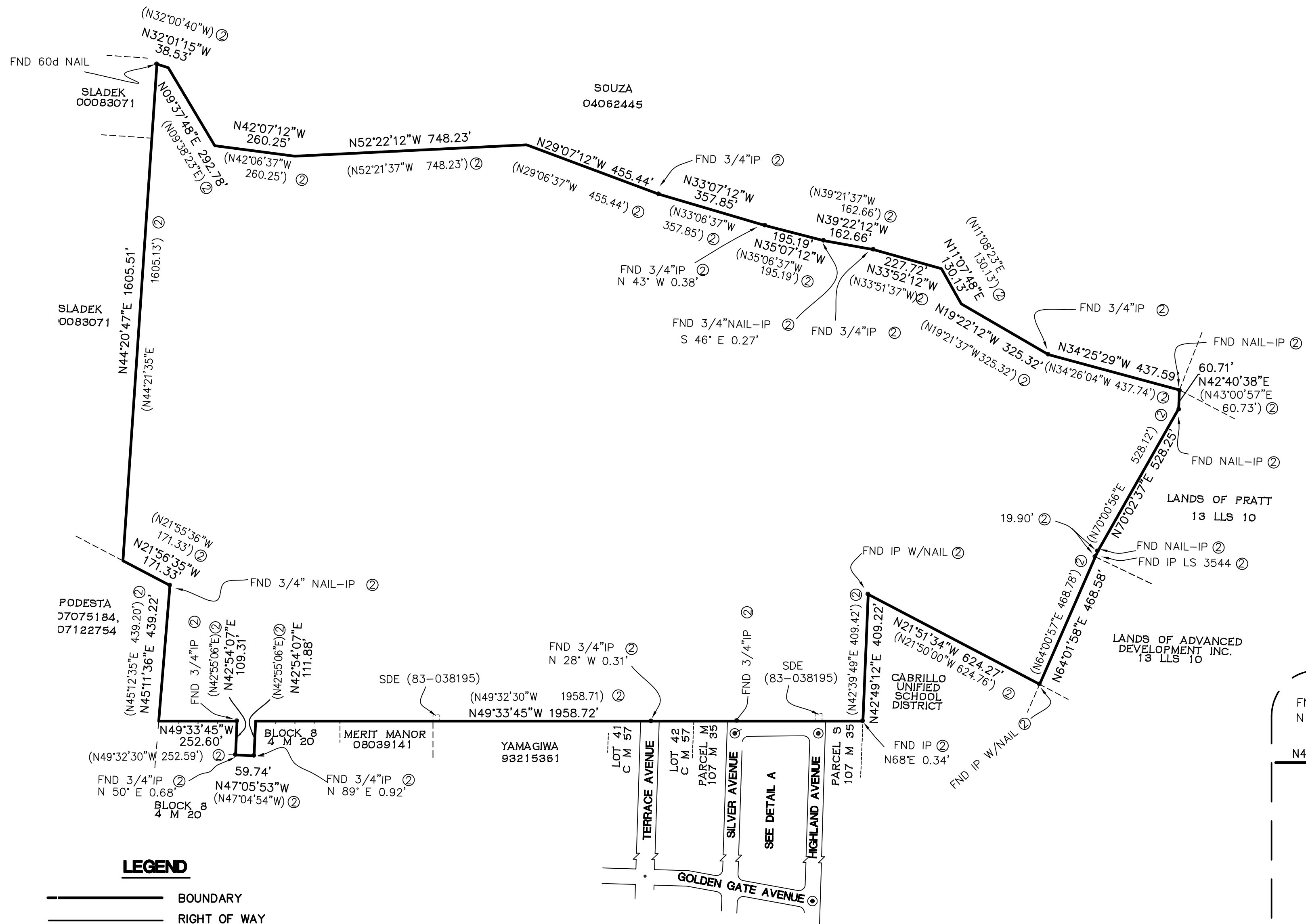
HALF MOON BAY, SAN MATEO COUNTY, CALIFORNIA

dk CONSULTING

CIVIL ENGINEERING-PLANNING-SURVEYING
1440 MARIA LANE, SUITE 200
WALNUT CREEK, CALIFORNIA 94596

AUGUST 2009

SCALE: 1"=250'



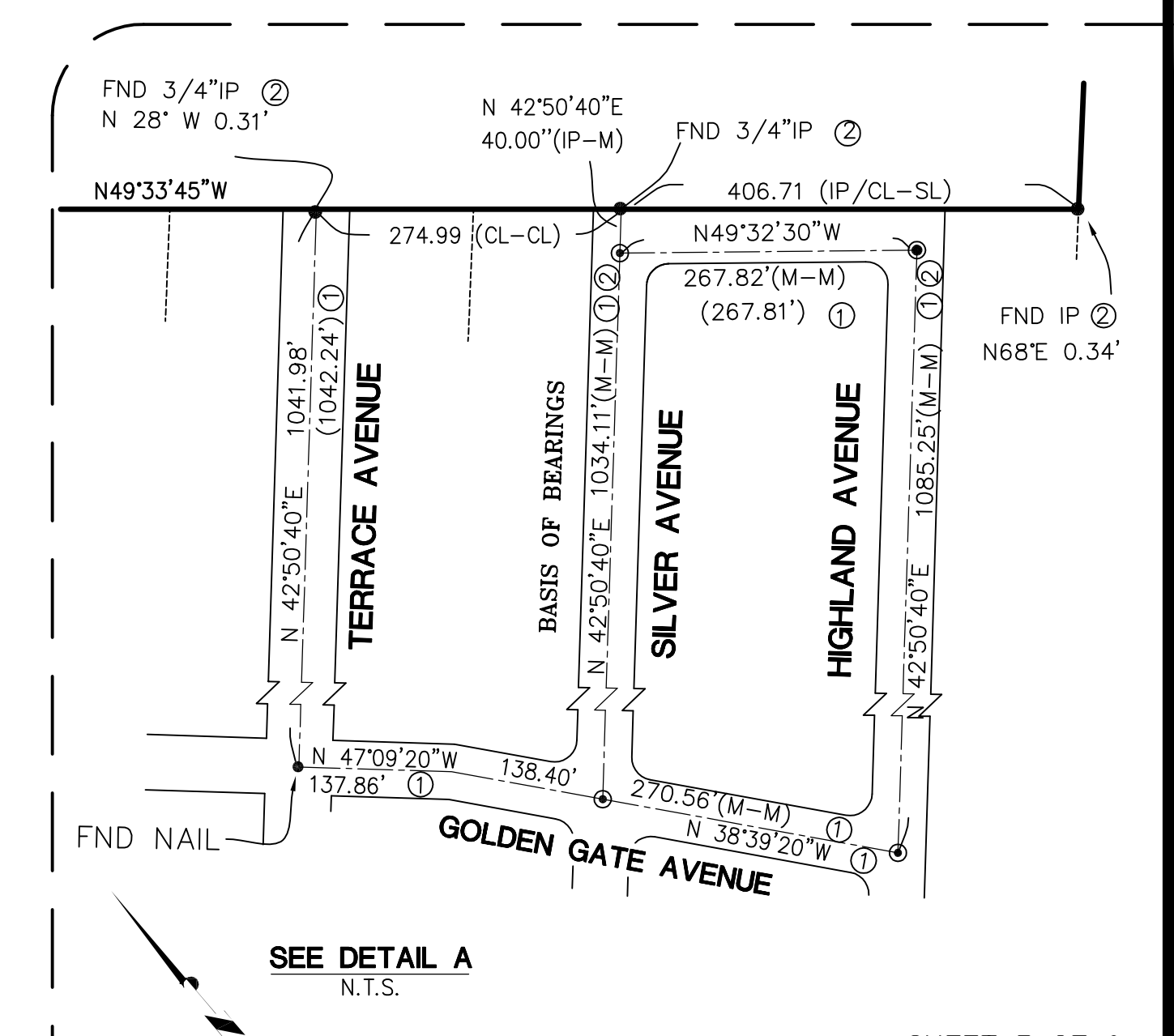
LEGEND

| | |
|--------|------------------------------|
| ——— | BOUNDARY |
| ——— | RIGHT OF WAY |
| ——— | LOT LINE |
| ——— | EASEMENT LINE |
| ——— | CENTER LINE |
| ——— | MONUMENT LINE |
| (M-M) | MONUMENT TO MONUMENT |
| (M-SL) | MONUMENT TO SUBDIVISION LINE |
| CL | CENTERLINE |
| (R) | RADIAL |
| (T) | TOTAL |
| SF | SQUARE FEET |
| FND | FOUND |
| EX. | EXISTING |

| | |
|----------|-----------------------------------|
| T.E. | TRAIL EASEMENT |
| P.U.E. | PUBLIC UTILITY EASEMENT |
| P.A.E. | PUBLIC ACCESS EASEMENT |
| W.M.E. | WATER MAINTENANCE EASEMENT |
| E.V.A.E. | EMERGENCY VEHICLE ACCESS EASEMENT |
| P.S.D.E. | PRIVATE STORM DRAIN EASEMENT |
| ⊙ | SET STANDARD STREET MONUMENT |
| ● | FOUND IRON PIPE |
| ⊙ | EXISTING STANDARD STREET MONUMENT |

BASIS OF BEARINGS:
THE MONUMENT LINE ON SILVER AVE. AS SHOWN ON THE MAP RECORDED IN BOOK 107 OF MAPS AT PAGE 34. THE BEARING OF N 42°50'40"E WAS HELD.

REFERENCES:
① 107 M 34
② 18 LLS MAPS 35



PACIFIC RIDGE AT HALF MOON BAY

THE PARCEL DELINEATED ON THE RECORD OF SURVEY 18 LLS MAPS AT PAGE 35.

HALF MOON BAY, SAN MATEO COUNTY, CALIFORNIA

dk CONSULTING

CIVIL ENGINEERING-PLANNING-SURVEYING
1440 MARIA LANE, SUITE 200
WALNUT CREEK, CALIFORNIA 94596

AUGUST 2009
SCALE: 1"=40'

PARCEL B
(P.S.D.E.)
(SEE SHEET 9)

SEE SHEET 7

SEE SHEET 5

24

17

10

11

18

25

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19

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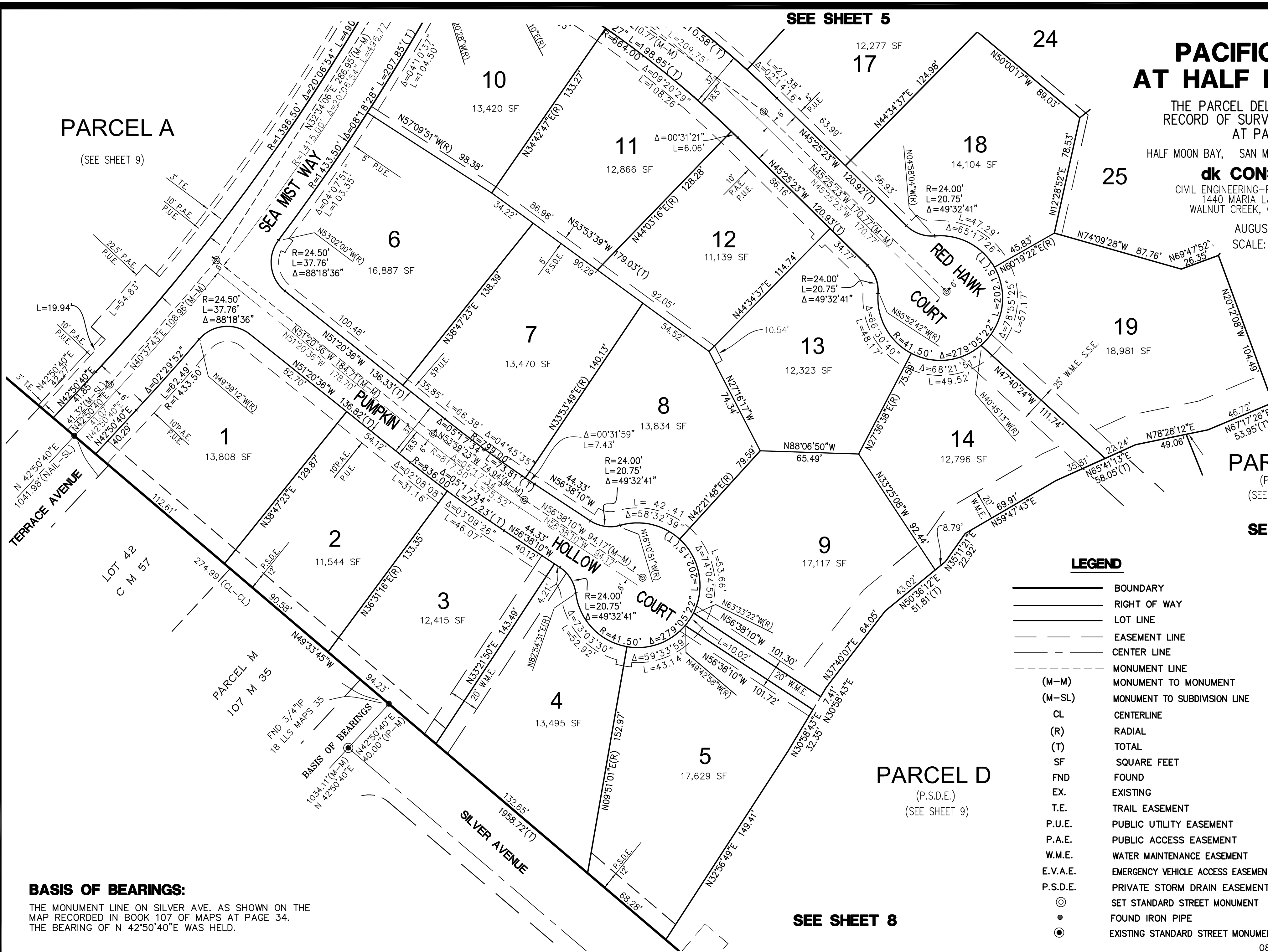
PARCEL D

(P.S.D.E.)
(SEE SHEET 9)

SEE SHEET 8

PARCEL A

(SEE SHEET 9)



BASIS OF BEARINGS:

THE MONUMENT LINE ON SILVER AVE. AS SHOWN ON THE MAP RECORDED IN BOOK 107 OF MAPS AT PAGE 34. THE BEARING OF N 42°50'40"E WAS HELD.

LEGEND

- BOUNDARY
- RIGHT OF WAY
- LOT LINE
- EASEMENT LINE
- CENTER LINE
- MONUMENT LINE
- (M-M) MONUMENT TO MONUMENT
- (M-SL) MONUMENT TO SUBDIVISION LINE
- CL CENTERLINE
- (R) RADIAL
- (T) TOTAL
- SF SQUARE FEET
- FND FOUND
- EX. EXISTING
- T.E. TRAIL EASEMENT
- P.U.E. PUBLIC UTILITY EASEMENT
- P.A.E. PUBLIC ACCESS EASEMENT
- W.M.E. WATER MAINTENANCE EASEMENT
- E.V.A.E. EMERGENCY VEHICLE ACCESS EASEMENT
- P.S.D.E. PRIVATE STORM DRAIN EASEMENT
- ⊙ SET STANDARD STREET MONUMENT
- FOUND IRON PIPE
- ⊙ EXISTING STANDARD STREET MONUMENT

PACIFIC RIDGE AT HALF MOON BAY

THE PARCEL DELINEATED ON THE
RECORD OF SURVEY 18 LLS MAPS
AT PAGE 35.

HALF MOON BAY, SAN MATEO COUNTY, CALIFORNIA

dk CONSULTING

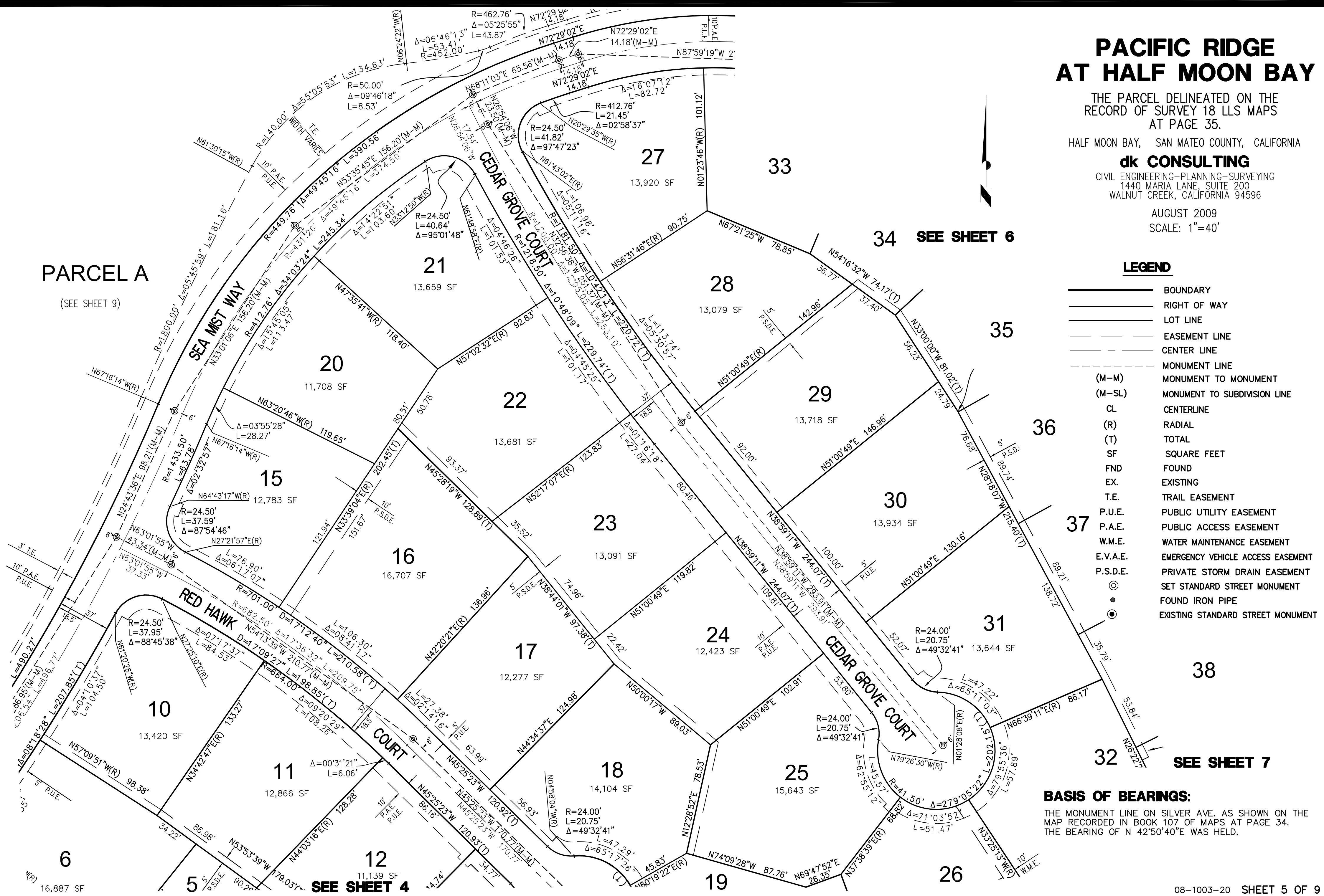
CIVIL ENGINEERING-PLANNING-SURVEYING
1440 MARIA LANE, SUITE 200
WALNUT CREEK, CALIFORNIA 94596

AUGUST 2009

SCALE: 1"=40'

PARCEL A

(SEE SHEET 9)



LEGEND

| | |
|----------|-----------------------------------|
| | BOUNDARY |
| | RIGHT OF WAY |
| | LOT LINE |
| | EASEMENT LINE |
| | CENTER LINE |
| | MONUMENT LINE |
| (M-M) | MONUMENT TO MONUMENT |
| (M-SL) | MONUMENT TO SUBDIVISION LINE |
| CL | CENTERLINE |
| (R) | RADIAL |
| (T) | TOTAL |
| SF | SQUARE FEET |
| FND | FOUND |
| EX. | EXISTING |
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| P.U.E. | PUBLIC UTILITY EASEMENT |
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PACIFIC RIDGE AT HALF MOON BAY

THE PARCEL DELINEATED ON THE
RECORD OF SURVEY 18 LLS MAPS
AT PAGE 35.

HALF MOON BAY, SAN MATEO COUNTY, CALIFORNIA

dk CONSULTING

CIVIL ENGINEERING-PLANNING-SURVEYING
1440 MARIA LANE, SUITE 200
WALNUT CREEK, CALIFORNIA 94596

AUGUST 2009

SCALE: 1"=40'

LEGEND

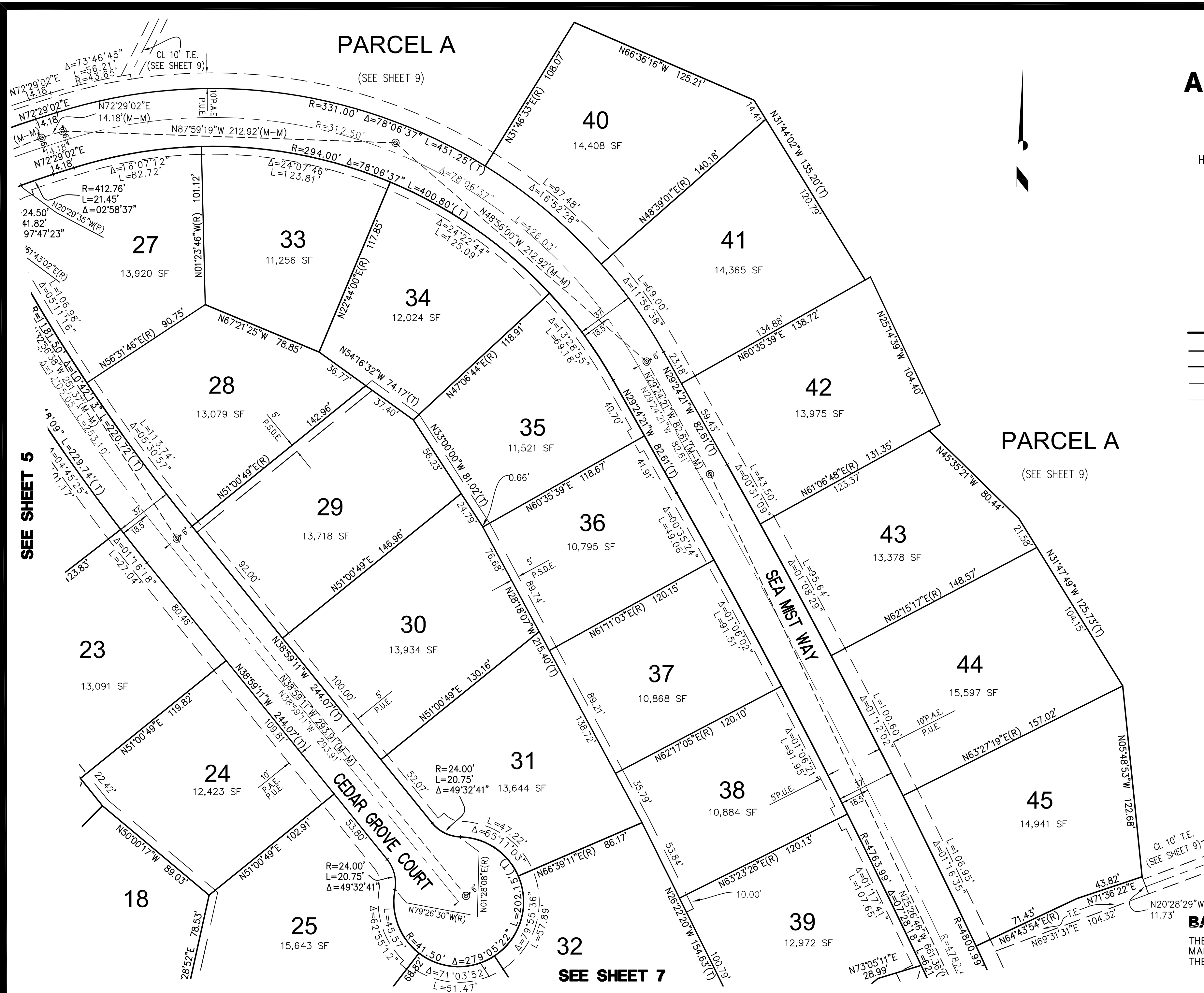
| | |
|----------|-----------------------------------|
| | BOUNDARY |
| | RIGHT OF WAY |
| | LOT LINE |
| | EASEMENT LINE |
| | CENTER LINE |
| | MONUMENT LINE |
| (M-M) | MONUMENT TO MONUMENT |
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PARCEL A

(SEE SHEET 9)

BASIS OF BEARINGS:

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THE BEARING OF N 42°50'40"E WAS HELD.



PARCEL A

(SEE SHEET 9)

PARCEL A

(SEE SHEET 9)

PARCEL A

(SEE SHEET 9)

SEE SHEET 5

SEE SHEET 7

PACIFIC RIDGE AT HALF MOON BAY

THE PARCEL DELINEATED ON THE
RECORD OF SURVEY 18 LLS MAPS
AT PAGE 35.

HALF MOON BAY, SAN MATEO COUNTY, CALIFORNIA

dk CONSULTING

CIVIL ENGINEERING-PLANNING-SURVEYING
1440 MARIA LANE, SUITE 200
WALNUT CREEK, CALIFORNIA 94596

AUGUST 2009

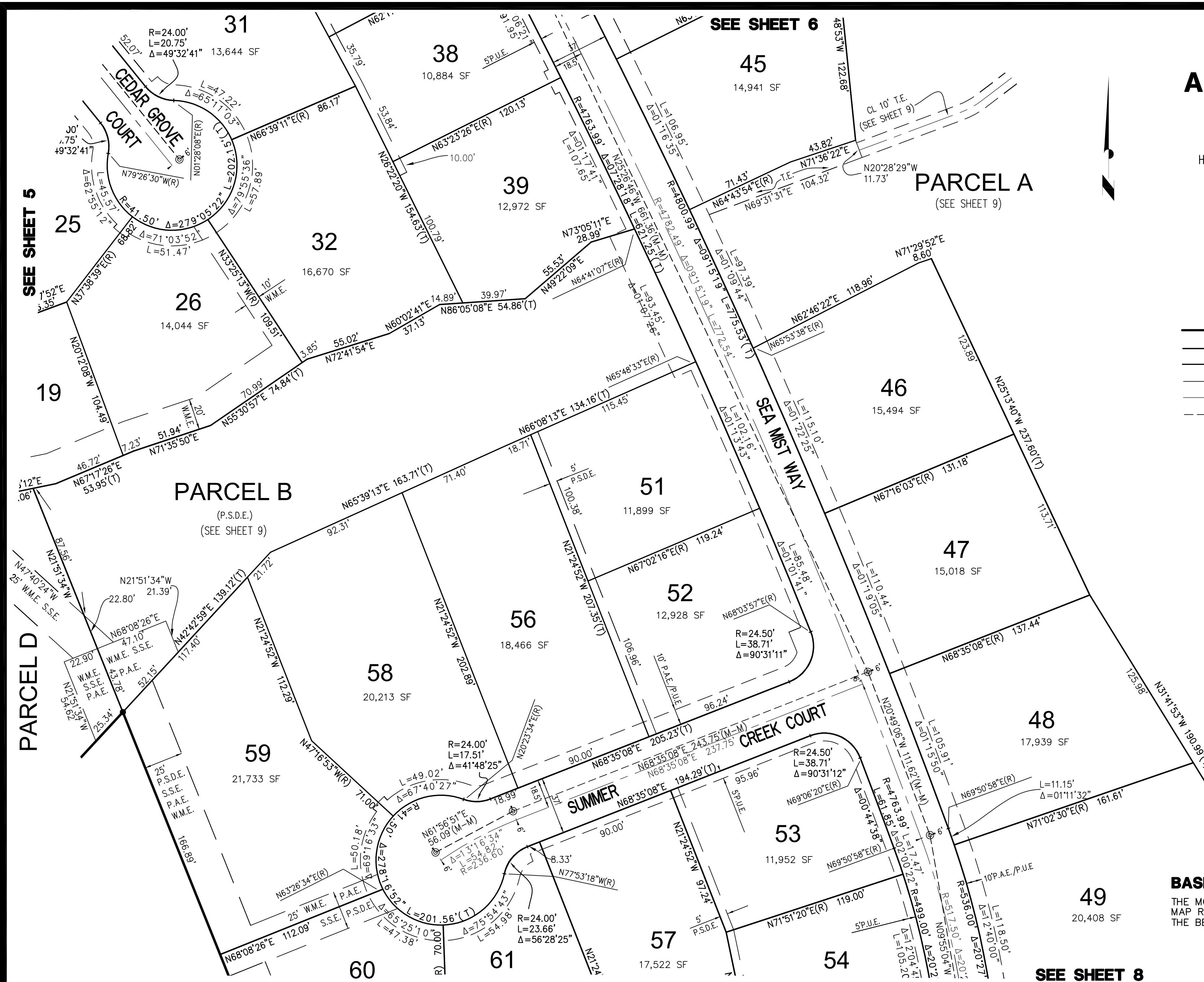
SCALE: 1"=40'

LEGEND

| | |
|----------|-----------------------------------|
| | BOUNDARY |
| | RIGHT OF WAY |
| | LOT LINE |
| | EASEMENT LINE |
| | CENTER LINE |
| | MONUMENT LINE |
| (M-M) | MONUMENT TO MONUMENT |
| (M-SL) | MONUMENT TO SUBDIVISION LINE |
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| (R) | RADIAL |
| (T) | TOTAL |
| SF | SQUARE FEET |
| FND | FOUND |
| EX. | EXISTING |
| T.E. | TRAIL EASEMENT |
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SEE SHEET 6

SEE SHEET 5

PARCEL D

SEE SHEET 8

PACIFIC RIDGE AT HALF MOON BAY

THE PARCEL DELINEATED ON THE
RECORD OF SURVEY 18 LLS MAPS
AT PAGE 35.

HALF MOON BAY, SAN MATEO COUNTY, CALIFORNIA

dk CONSULTING

CIVIL ENGINEERING-PLANNING-SURVEYING
1440 MARIA LANE, SUITE 200
WALNUT CREEK, CALIFORNIA 94596

AUGUST 2009

SCALE: 1"=40'

PARCEL A

(SEE SHEET 9)

LEGEND

| | |
|----------|-----------------------------------|
| | BOUNDARY |
| | RIGHT OF WAY |
| | LOT LINE |
| | EASEMENT LINE |
| | CENTER LINE |
| | MONUMENT LINE |
| (M-M) | MONUMENT TO MONUMENT |
| (M-SL) | MONUMENT TO SUBDIVISION LINE |
| CL | CENTERLINE |
| (R) | RADIAL |
| (T) | TOTAL |
| SF | SQUARE FEET |
| FND | FOUND |
| EX. | EXISTING |
| T.E. | TRAIL EASEMENT |
| P.U.E. | PUBLIC UTILITY EASEMENT |
| P.A.E. | PUBLIC ACCESS EASEMENT |
| W.M.E. | WATER MAINTENANCE EASEMENT |
| E.V.A.E. | EMERGENCY VEHICLE ACCESS EASEMENT |
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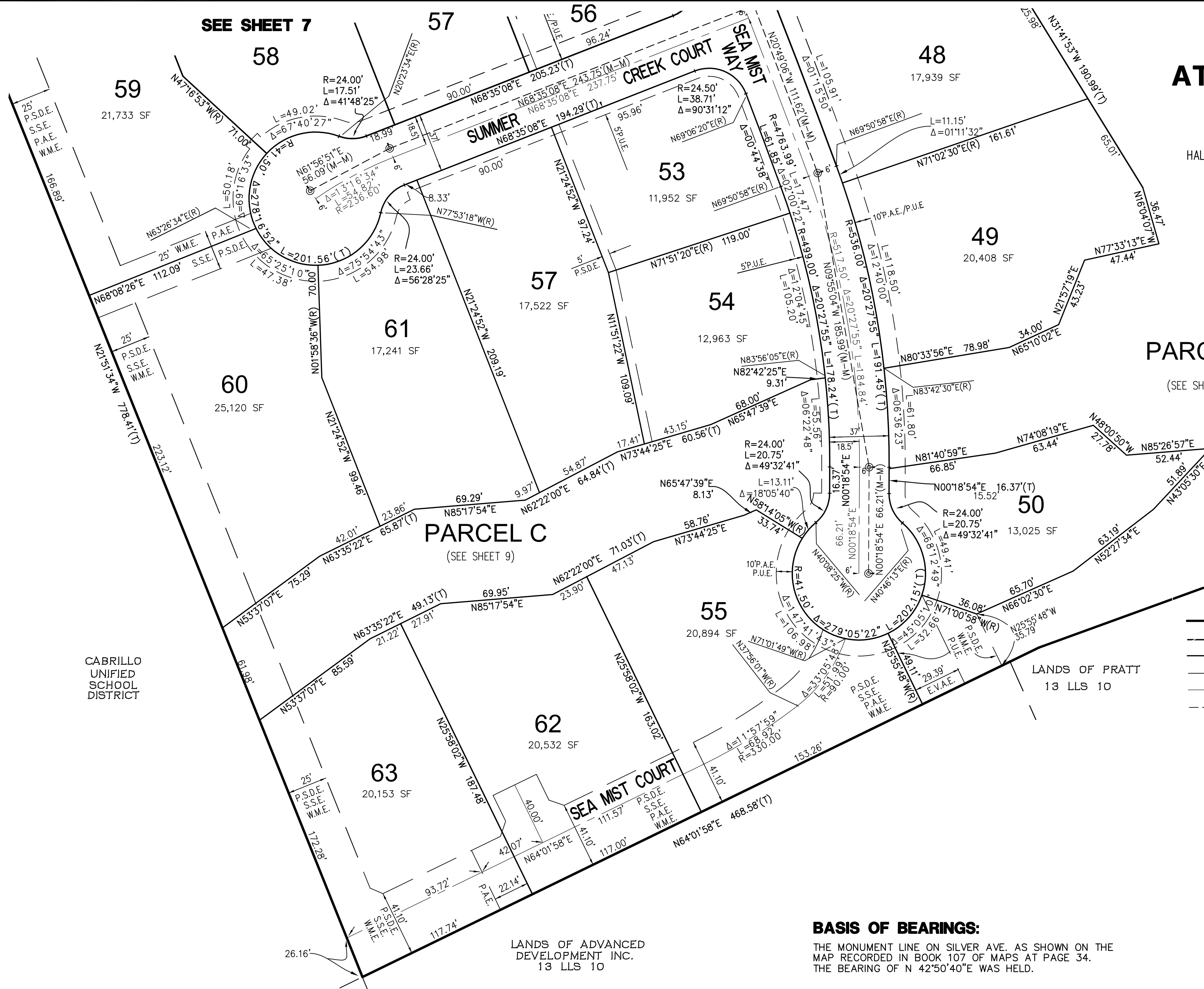
BASIS OF BEARINGS:

THE MONUMENT LINE ON SILVER AVE. AS SHOWN ON THE
MAP RECORDED IN BOOK 107 OF MAPS AT PAGE 34.
THE BEARING OF N 42°50'40"E WAS HELD.

LANDS OF ADVANCED
DEVELOPMENT INC.
13 LLS 10

LANDS OF PRATT
13 LLS 10

CABRILLO
UNIFIED
SCHOOL
DISTRICT



SEE SHEET 7

57

56

58

59

48

53

SUMMER

49

57

54

61

60

PARCEL C

(SEE SHEET 9)

55

50

62

63

SEA MIST COURT

PACIFIC RIDGE AT HALF MOON BAY

THE PARCEL DELINEATED ON THE
RECORD OF SURVEY 18 LLS MAPS
AT PAGE 35.

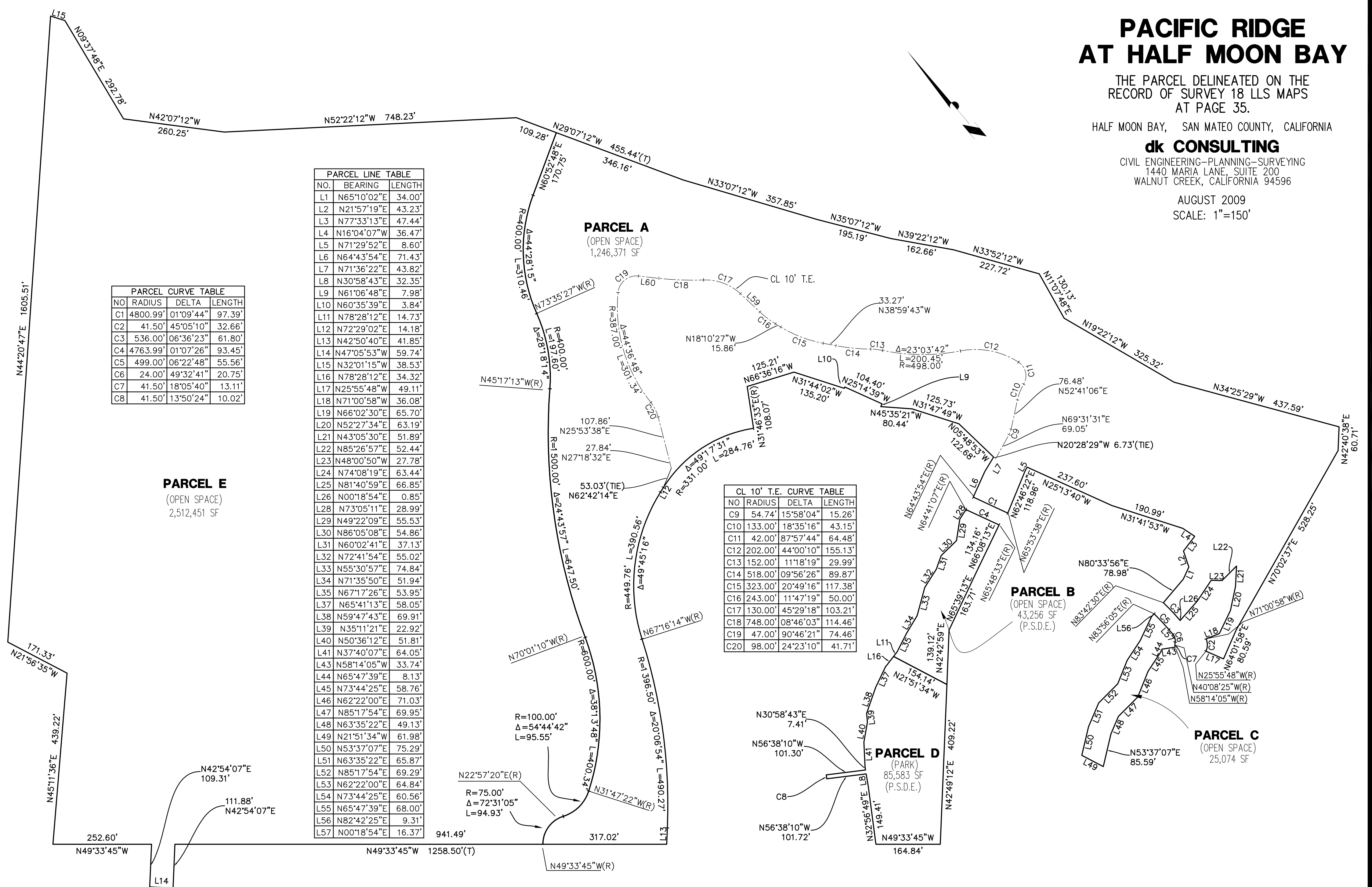
HALF MOON BAY, SAN MATEO COUNTY, CALIFORNIA

dk CONSULTING

CIVIL ENGINEERING-PLANNING-SURVEYING
1440 MARIA LANE, SUITE 200
WALNUT CREEK, CALIFORNIA 94596

AUGUST 2009

SCALE: 1"=150'



| PARCEL LINE TABLE | | |
|-------------------|-------------|--------|
| NO. | BEARING | LENGTH |
| L1 | N65°10'02"E | 34.00' |
| L2 | N21°57'19"E | 43.23' |
| L3 | N77°33'13"E | 47.44' |
| L4 | N16°04'07"W | 36.47' |
| L5 | N71°29'52"E | 8.60' |
| L6 | N64°43'54"E | 71.43' |
| L7 | N71°36'22"E | 43.82' |
| L8 | N30°58'43"E | 32.35' |
| L9 | N61°06'48"E | 7.98' |
| L10 | N60°35'39"E | 3.84' |
| L11 | N78°28'12"E | 14.73' |
| L12 | N72°29'02"E | 14.18' |
| L13 | N42°50'40"E | 41.85' |
| L14 | N47°05'53"W | 59.74' |
| L15 | N32°01'15"W | 38.53' |
| L16 | N78°28'12"E | 34.32' |
| L17 | N25°55'48"W | 49.11' |
| L18 | N71°00'58"W | 36.08' |
| L19 | N66°02'30"E | 65.70' |
| L20 | N52°27'34"E | 63.19' |
| L21 | N43°05'30"E | 51.89' |
| L22 | N85°26'57"E | 52.44' |
| L23 | N48°00'50"W | 27.78' |
| L24 | N74°08'19"E | 63.44' |
| L25 | N81°40'59"E | 66.85' |
| L26 | N00°18'54"E | 0.85' |
| L28 | N73°05'11"E | 28.99' |
| L29 | N49°22'09"E | 55.53' |
| L30 | N86°05'08"E | 54.86' |
| L31 | N60°02'41"E | 37.13' |
| L32 | N72°41'54"E | 55.02' |
| L33 | N55°30'57"E | 74.84' |
| L34 | N71°35'50"E | 51.94' |
| L35 | N67°17'26"E | 53.95' |
| L37 | N65°41'13"E | 58.05' |
| L38 | N59°47'43"E | 69.91' |
| L39 | N35°11'21"E | 22.92' |
| L40 | N50°36'12"E | 51.81' |
| L41 | N37°40'07"E | 64.05' |
| L43 | N58°14'05"W | 33.74' |
| L44 | N65°47'39"E | 8.13' |
| L45 | N73°44'25"E | 58.76' |
| L46 | N62°22'00"E | 71.03' |
| L47 | N85°17'54"E | 69.95' |
| L48 | N63°35'22"E | 49.13' |
| L49 | N21°51'34"W | 61.98' |
| L50 | N53°37'07"E | 75.29' |
| L51 | N63°35'22"E | 65.87' |
| L52 | N85°17'54"E | 69.29' |
| L53 | N62°22'00"E | 64.84' |
| L54 | N73°44'25"E | 60.56' |
| L55 | N65°47'39"E | 68.00' |
| L56 | N82°42'25"E | 9.31' |
| L57 | N00°18'54"E | 16.37' |

| PARCEL CURVE TABLE | | | |
|--------------------|----------|-----------|--------|
| NO | RADIUS | DELTA | LENGTH |
| C1 | 4800.99' | 01°09'44" | 97.39' |
| C2 | 41.50' | 45°05'10" | 32.66' |
| C3 | 536.00' | 06°36'23" | 61.80' |
| C4 | 4763.99' | 01°07'26" | 93.45' |
| C5 | 499.00' | 06°22'48" | 55.56' |
| C6 | 24.00' | 49°32'41" | 20.75' |
| C7 | 41.50' | 18°05'40" | 13.11' |
| C8 | 41.50' | 13°50'24" | 10.02' |

| CL 10' T.E. CURVE TABLE | | | |
|-------------------------|---------|-----------|---------|
| NO | RADIUS | DELTA | LENGTH |
| C9 | 54.74' | 15°58'04" | 15.26' |
| C10 | 133.00' | 18°35'16" | 43.15' |
| C11 | 42.00' | 87°57'44" | 64.48' |
| C12 | 202.00' | 44°00'10" | 155.13' |
| C13 | 152.00' | 11°18'19" | 29.99' |
| C14 | 518.00' | 09°56'26" | 89.87' |
| C15 | 323.00' | 20°49'16" | 117.38' |
| C16 | 243.00' | 11°47'19" | 50.00' |
| C17 | 130.00' | 45°29'18" | 103.21' |
| C18 | 748.00' | 08°46'03" | 114.46' |
| C19 | 47.00' | 90°46'21" | 74.46' |
| C20 | 98.00' | 24°23'10" | 41.71' |

PARCEL E
(OPEN SPACE)
2,512,451 SF

PARCEL A
(OPEN SPACE)
1,246,371 SF

PARCEL B
(OPEN SPACE)
43,256 SF
(P.S.D.E.)

PARCEL D
(PARK)
85,583 SF
(P.S.D.E.)

PARCEL C
(OPEN SPACE)
25,074 SF

Coastside County Water District

**WATER SYSTEM SPECIFICATIONS
FOR
PACIFIC RIDGE**

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Specifications. This document contains the technical specifications for all water system facilities for which ownership upon project completion will be conveyed by the Applicant, Ailanto Properties, to the Coastside County Water District (CCWD). This document is not a complete set of specifications for the project; the Applicant and their engineer are responsible for all project specifications and contract documents other than this Water System Specifications document.
- B. Drawing. This Specifications document shall be used in conjunction with the engineering drawings for the project: "Improvement Plan, Pacific Ridge at Half Moon Bay (18 Sheets), dated August, 2009, prepared by dk Consulting.
- C. Conflicts Between Specifications and Drawings. Where conflicts occur between this Specification document and the Improvement Plans, this Specifications document shall take precedence. Conflict resolution shall be performed by the District Engineer for the Coastside County Water District.

1.02 REGULATORY AGENCIES

- A. Water System. All water system work shall be in conformance with the rules and regulations of the Coastside County Water District, County of San Mateo Department of Health Services, and the State Department of Health Services.
- B. Safety. All work shall be in conformance with applicable State and Federal laws and regulations, rules and orders and as may be necessary in order that the work is performed in a safe manner and that the safety and health of the employees and the people of local communities is safeguarded.
- C. Pollution Abatement. All work shall be performed in conformance with NPDES (National Pollutant Discharge Elimination System) regulations as well as with all other applicable pollution abatement rules and regulations.

1.03 PERMITS

Prior to beginning work, the Applicant or the project Contractor shall obtain all permits required for the work.

1.04 INSPECTION

- A. Responsible Agency:
 - 1. Water System Work. Inspection of water system facilities including bedding and backfill around piping will be performed by the CCWD. District personnel will also inspect the installation of the joint trench facilities as required to observe compliance with the Specification requirements for clearance distance of water facilities from other underground utility facilities. CCWD inspection fees shall be paid by the Applicant.
 - 2. Other Work. Inspection of all other work including the remainder of the trench backfill over the water system facilities shall be performed by the Applicant.
- B. Notification. The CCWD shall be notified by the Contractor 10 days prior to the proposed start of construction of water system facilities and joint trench facilities. If construction is not continuous, the CCWD shall be notified at least 48 hours in advance of the resumption of construction.
- C. Observation. The Engineer and his authorized representatives shall at all times have access to the work, and the Contractor shall furnish every reasonable facility for ascertaining that the materials and workmanship are in accordance with CCWD requirements. All work performed and all materials furnished shall be subject to the CCWD's on-site and off-site observations. The CCWD will observe and inspect facilities solely to protect the interests of the CCWD and to determine whether the completed work is acceptable for incorporation into the CCWD system. The CCWD does not assume thereby any responsibility for the safety practices of the Contractor. The Contractor is responsible for the correct location of all facilities which are installed. All work shall be inspected by the CCWD prior to backfill. Work which has been backfilled prior to inspection by the CCWD shall be uncovered for observation at the expense of the Contractor.

1.05 CHANGES

All work shall be performed in conformance with the project documents approved by the CCWD. Changes shall not be made without the written approval of the CCWD District Engineer.

1.06 REPAIR OF DAMAGE

The Contractor shall repair at his expense any damage to CCWD or other property caused by his work. At the option of the CCWD, repairs to CCWD facilities will be completed by the CCWD with the cost of the repair work being paid by the Contractor.

1.07 SITE CONDITIONS

The CCWD has performed no investigation of subsurface conditions in the work area. The Contractor shall visit the site prior to submitting his bid and shall be responsible for making his own evaluations, inspections and determinations of all site conditions, including subsurface.

1.08 LINES AND GRADES

The Contractor will be solely responsible for all lines and grades. At no cost to the Contractor, the CCWD will field locate existing water system facilities based on best available information. However, this CCWD locating assistance is not guaranteed to be either accurate or complete. The Contractor shall uncover all existing facilities by hand excavation (potholing) ahead of his machine excavation work. Where the project drawings indicate the location of water system facilities with respect to property corners or easement boundaries, the Applicant or the Contractor shall retain the services of a licensed land surveyor to field locate each property corner and easement boundary required for installation of the new water system facilities at the proper locations.

1.09 SALVAGEABLE MATERIALS

Existing CCWD materials removed during the normal prosecution of work deemed salvageable by the CCWD, except as otherwise noted on the project drawing to be reused, shall remain under CCWD ownership and shall be delivered to the CCWD corporation yard by the Contractor.

1.10 PERSONAL LIABILITY

Neither the CCWD, its Engineer, nor any of the CCWD officers or employees shall be personally responsible for any liability arising under or by virtue of the Contractor's work.

1.11 QUALITY ASSURANCE

- A. Performance Test. Prior to project completion, the Contractor shall demonstrate to the CCWD that all water system facilities perform in the manner in which they are intended for use.
- B. Leakage Test. All water pipelines, service tubing and piping accessories shall be tested for leakage in conformance with the requirements contained in Part 3 of this document.
- C. Disinfection. All potable water pipelines, service tubing and piping accessories shall be disinfected in conformance with the requirements contained in Part 3 of this document.

1.12 REFERENCES TO STANDARD SPECIFICATIONS AND REGULATIONS

- A. Reference to standard specifications, manuals or codes of any technical society, organization or association, or to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, law or regulation in effect at the time the project documents are prepared (date shown on Specification document).

PART 2 - MATERIALS

2.01 GENERAL REQUIREMENTS

All materials shall be in conformance with CCWD rules and regulations for “approved” materials. All materials shall be new. Manufacturers furnishing pipe, valves, or piping accessories shall have had similar products in successful operation under similar operating conditions for a period of at least 5 years, and shall if requested submit a list of representative installations.

2.02 SHOP DRAWING REQUIREMENTS

- A. CCWD-Approved Materials. Where specific materials are listed below by manufacturer’s name and model number, they are District-approved materials by CCWD Resolution No. 2003-11. No shop drawing submittals are required for these CCWD-approved materials.
- B. Approved Equal Materials. Where the term “or approved equal” is used below, the Contractor may propose the use of alternative materials to those named by submitting shop drawings for the proposed alternative materials. Five copies of each shop drawing shall be submitted to the Engineer for review. The shop drawing submittal information shall be as required to demonstrate to the

satisfaction of the District Engineer that the material is equal to the District-approved material. No alternative materials shall be incorporated into the work until they have received the CCWD Engineer's favorable review. Where the term "or approved equal" is not utilized below, no alternatives will be considered by the CCWD.

- C. Contractor Verification. Where model, style or types of manufacturer's products are listed below, they are intended to indicate a standard of quality. The Contractor shall verify that the referenced model, style or type is correct for the actual project application prior to ordering the materials. When listed model numbers are no longer available or are incorrect, the District will provide new model numbers for District-approved materials.

2.03 DUCTILE IRON PIPE

- A. Pipe. Pipe shall normally be ductile iron pipe with push-on joints conforming to AWWA Standard C151, thickness Class 52. Where flanged joint pipe is required it shall conform to AWWA Standard C115, thickness Class 53.
- B. Pipe Joints:
 - 1. Push-On Pipe Joints. Push-on pipe shall normally be utilized for all buried piping except where otherwise indicated on the project drawings or otherwise required. Push-on joints shall conform to AWWA Standard C111 with restrained type "Field-Lok" gaskets as manufactured by U.S. Pipe and Foundry Co.
 - 2. Flanged Joint Pipe. Flanged joint pipe shall be utilized in buried piping where shown on the Contract Drawings or required. All above grade pipe shall have flanged joints. Flanges shall be in conformance with AWWA C115. Flanges shall be Class 125, B16.1, rated for a service pressure of 250 psi. Bolts and nuts for all flanged joints shall be Type 316 stainless steel.
- C. Fittings:
 - 1. Fittings for Push-On Joint Pipe. Fittings shall be ductile iron conforming to AWWA Standard C153. Fittings shall be push-on type ("Tyton" style) or mechanical joint type as directed by the District. Fittings shall be furnished and installed with joint restraint devices as described below:
 - a. Restraint Device for Push-On Fittings: "Field-Lok" gaskets as manufactured by U.S. Pipe and Foundry Co.
 - b. Restraint Device for Mechanical Joint Fittings: Series 1110HD Megalug Retainer Glands as manufactured by EBBA Iron Sales, Inc.
 - 2. Fittings for Flanged Pipe. Fittings shall be ductile iron conforming to AWWA C110. Fittings shall be screw-on type, normally Class 125, B16.1 Type, designed for a service pressure of 250 psi. Bolts and nuts for

flanged joints shall be Type 316 stainless steel. Gaskets shall normally be 1/8 inch thick non-asbestos composition type.

- D. Exterior Coating. Pipe and fittings shall be furnished with a 1 mil thick asphaltic coating. The finished coating shall be the manufacturer's standard conforming to AWWA requirements.
- E. Interior Lining. Pipe and fittings shall be cement lined in conformance with AWWA Standard C104.
- F. Polyethylene Encasement. Polyethylene encasement shall be tube type, conforming to AWWA Standard C105. Color may be Class A natural or Class C black.

2.04 COPPER TUBING

- A. Tubing:
 - 1. Buried Tubing. Copper tubing for buried service shall be Type K (soft) conforming to ASTM B88.
 - 2. Exposed Tubing. Copper tubing for exposed service shall be Type L (hard) conforming to ASTM B88.
- B. Tubing Joints and Fittings.
 - 1. Buried Tubing. Joints and fittings for buried copper tubing shall be compression type which do not require flaring or soldering. Service fittings shall be Mueller Series 110 compression connections.
 - 2. Exposed (Not Buried) Tubing. Joints and fittings for exposed copper tubing shall be wrought copper conforming to ANSI B16.22 or cast bronze conforming to ANSI B16.18 with soldered connections. Solder shall conform to ASTM B3208g, alloy grade E or HB; solder and flux shall contain less than 0.2% lead.

2.05 BRASS PIPE

- A. Brass pipe shall be in conformance with ASTM-B43, regular. Joints shall be screwed type.

2.06 GATE VALVES

- A. Gate Valves 4 Inches in Diameter and Larger. Gate valves shall be resilient-wedge type conforming to AWWA C509 and the following additional requirements. Valves shall be rated at 250 psi working pressure. All body and bonnet bolts, studs, and nuts shall be Type 316 stainless steel. Stem seals shall

be O-ring type. Valve operators shall be 2 inch square nut type. Valve end connections shall be normally push-on or mechanical joint type except where flanged end connections are required. The interior and exterior of the valve body shall be coated with 10 mils minimum of epoxy material which conforms to AWWA Standard C550. The CCWD-approved valves shall be Mueller Co. A-2360 Series or Clow Corp. Model 2639.

- B. Gate Valves 3 Inches in Diameter and Smaller. Valves shall be rated for 200 psi service, and shall be bronze body, solid wedge disc, non-rising stem, handwheel operated type with screwed end connections.

2.07 AIR RELEASE VALVES

- A. Combination Air Valves. Combination air valves shall be in conformance with AWWA Standard C512. Valve shize shall be 1 inch diameter. Combination air valves shall be APCO Series 140C or equivalent ValMatic model. No alternatives will be permitted.

2.08 VALVE BOXES AND RISER PIPE

- A. Valve Boxes. Valve boxes shall be Christy Model G-5 with cast iron lids with the work "Water" cast into the lid.
- B. Riser Pipe. Riser pipe for the valve operator shall be 8 inch diameter PVC sewer pipe conforming to ASTM D-3034, SDR 35.

2.09 FIRE HYDRANT ASSEMBLIES

- A. Each fire hydrant assembly shall consist of a Clow 960 fire hydrant, a Clow No. LB 40 breakoff check valve, a 26 inch long hydrant bury piece with a mechanical joint 6 inch diameter end connection, and extension pieces as required. Bolts and nuts for flanged joints shall be Type 316 stainless steel.

2.10 SERVICE FITTINGS FOR COPPER TUBING

- A. Service fitting shall be Mueller Series 110 compression connections as listed below:

| <u>Description</u> | <u>Mueller Model Number</u> | |
|--------------------|-----------------------------|-----------------------------|
| | <u>3/4" & 1" Size</u> | <u>1-1/2" & 2" Size</u> |
| Corporation Stop | B-25008 | B-25008 |
| Meter Angle Stop | B-24258 | B-24276 |

| | | |
|-------|---------|---------|
| Union | H-15403 | H-15403 |
| Tee | H-15381 | H-15381 |

B. Angle Check Valves shall be products of Ford as listed below:

| <u>Size</u> | <u>Model Number</u> |
|-------------|---------------------|
| 3/4" | HA31-323 |
| 1" | HA31-444 |
| 1-1/2" | HFA31-666 |
| 2" | HFA31-777 |

2.11 THRUST RESTRAINT DEVICES

- A. The following thrust restraint devices shall be provided where shown on the project drawings or otherwise permitted by the CCWD:
1. Mechanical Joint Retainer Glands: Series 1110 HD Megalug Retainer Glands, a product of EBBA Iron Sales, Inc.
 2. Push-On Pipe Bell Restraint System: "Field-Lok" gasket, a product of U.S. Pipe and Foundry Co.

2.12 WATER METERS

- A. Water meters shall be Sensus meters with Orion automatic read devices. The Contractor shall purchase the meters through the CCWD.

2.13 METER BOXES

- A. Meter boxes shall be concrete, and shall be products of Christy Concrete Products, Inc. Meter box lids in non-traffic areas shall normally be concrete, and in traffic areas shall be galvanized steel. Lids shall have the work "Water" cast into the top. Extension pieces shall be provided as required so that the bottom of the meter box assembly is equal in elevation with the bottom of the meter or other device inside the box or as shown on the District Standard Installation Details or as directed by District field personnel. For water meter service connections, the following boxes and lids shall be provided:

CHRISTY METER BOXES AND LIDS

| <u>Water Meter Size</u> | <u>Box No.</u> | <u>Non-Traffic Lid No.</u> |
|-------------------------|----------------|----------------------------|
| 3/4" | B9 | B9P |
| 1" | B16 | B16P |
| 1-1/2" | As Req'd. | P Type |

The "P" type lids are fabricated of reinforced concrete with a 1-3/4 inch hole for the automatic meter reading device. Where meter boxes are utilized for air release assemblies and other non-meter applications use the "D" type lid.

Where traffic-type lids are required, provide lid type as required by the District.

2.14 SERVICE SADDLES

- A. Service saddles shall be rated for a working pressure of 200 psi, and shall be bronze double strap type. Outlet shall be either AWWA taper or IPT as required for the pipe to be connected to the saddle. The District-approved service saddle is the Mueller BR2B Series.

2.15 FIRE HYDRANT GUARD POSTS

- A. Fire hydrant guard posts (bollards) shall be 4 inch diameter Schedule 40 galvanized steel pipe, 6 feet long.

2.16 CONCRETE

- A. Concrete shall contain a minimum 564 pounds of Portland cement per cubic yard. Minimum compressive strength after 28 days shall be 3,500 psi.

2.17 SAND BEDDING AND BACKFILL MATERIAL

Sand for use in bedding and backfilling water pipelines and service tubing shall conform the requirements contained in the current edition of "Standard Specifications" issued by Caltrans (California Department of Transportation), Section 19. Use of beach sand will not be permitted.

2.18 WATER

Water shall be potable water unless otherwise permitted by the CCWD, and will be made available to the Contractor by the CCWD from available facilities at or in the vicinity of the work site. Cost of water shall be paid by the Contractor using a portable meter obtained from the District.

2.19 MATERIALS FOR JACK AND BORE WATER PIPELINE CONSTRUCTION

- A. Steel Casing Pipe. Casing pipe shall be new smooth steel pipe conforming to AWWA C200, except that spiral weld pipe will not be allowed. Pipe shall be fabricated in sections for field welded, full circumference butt welds. Minimum wall thickness shall be ¼ inch.
- B. Casing Insulators. Casing insulators shall be provided which shall support the ductile iron carrier pipe within the casing pipe in a manner that the bells of the ductile iron pipe do not come in contact with the carrier pipe. Casing Insulators shall be non-metallic type with a minimum band width of 5 inches and a runner height of approximately 2 inches. Casing insulators shall be Ranger II Casing Spacers, a product of Pipeline Seal and Insulator, Inc., or approved equal.
- C. End Seals. End seals shall be fabricated of synthetic rubber, minimum 1/8 inch thickness. End seals shall be Model C end seal, a product of Pipeline Seal and Insulator, Inc., or approved equal.

2.20 BACKFLOW PREVENTION DEVICE ASSEMBLIES

Backflow prevention device assemblies shall be reduced pressure type with ball valve type shutoff valves and ball valve type test cocks. Assemblies shall be Febco Model 825Y, or approved equal by both the County of San Mateo and the Coastside County Water District.

PART 3 - EXECUTION

3.01 SEQUENCE OF UNDERGROUND UTILITY CONSTRUCTION

- A. The sequence of underground utility construction shall be that the deepest utility system shall be constructed first and the shallowest last, except that construction of water pipelines shall in all instances be constructed before the joint electrical trench facilities.

3.02 EXISTING UNDERGROUND UTILITIES

- A. Prior to beginning work the Contractor shall notify USA to have the location of all underground utilities marked in the field. Prior to beginning machine excavation the Contractor shall verify the exact location of each underground utility by hand excavation (potholing).

3.03 SITE MEETING WITH DISTRICT FIELD PERSONNEL

- A. General. Prior to beginning work the Contractor shall arrange a meeting at the site with District field personnel to review the work requirements.

3.04 TRENCH BEDDING AND BACKFILL

- A. Trench Bedding. All water system facilities including water pipelines and service tubing shall be bedded with a 4 inch thick layer of sand.
- B. Trench Backfill:
 - 1. Pipe Zone Backfill. Backfilling work shall not begin until the District has completed its inspection of the piping work. All pipe and service tubing shall be backfilled with sand to a depth of 12 inches over the pipe. The sand shall be compacted to a minimum relative compaction of 95%.
 - 2. Upper Level Backfill: Conform to the requirements shown on the Improvement Plans for Pacific Ridge.

3.05 PIPING GENERAL REQUIREMENTS

- A. Location:
 - 1. Pipelines. Pipelines shall be installed true to line and grade as shown on the Improvement Plans for Pacific Ridge. Buried pipelines shall be installed at a continuously sloping grade between points of given elevation without low or high points. If high points cannot be avoided, an air release valve assembly shall be provided. Location of the pipeline may be modified by the Engineer to clear obstructions. Depth of cover over the pipeline to finish grade shall be as shown on the Improvement Plans.
 - 2. Service Connection Tubing. Tubing shall be installed at a continuously sloping grade upward from the connection point with the water pipeline to the water meter box without low or high points. Tubing shall be installed with a minimum depth of cover of 30 inches unless otherwise permitted by the District.
- B. Handling. Pipe and service tubing shall be handled carefully to prevent damage. Pipe and service tubing shall be plugged at the end of each work day and at other times as required to prevent the entry of water or foreign material.
- C. Trench Conditions. Pipe and service tubing shall have a full, even bearing on the top of the trench bedding material. All piping shall be laid in the dry; the Contractor shall dewater the trench as required. Piping ends shall be clean when joints are made.

- D. Clearance Distances of Water Pipelines from Other Underground Utilities and Facilities. Water pipelines and service tubing shall be installed with the following minimum clearances from other underground utilities:
1. Electrical Wires or Conduits, Storm Drains, Telephone Conduits, Cable TV Wires or Conduits, Other Utilities, and Other Facilities. Minimum horizontal clearance shall be 3 feet; minimum vertical clearance shall be one foot.
 2. Sanitary Sewers Including House Laterals. Minimum horizontal clearance shall be 10 feet; minimum vertical clearance shall be one foot. Water pipelines shall pass over sanitary sewers where feasible. The Contractor shall provide written documentation to the CCWD for each instance where a sanitary sewer line is passing over a water pipeline.
- E. Thrust Restraints. All piping shall be adequately braced against thrust. Buried pipe shall be provided with concrete thrust blocks in conformance with the CCWD Standard Installation Details. Concrete thrust blocks are required for restrained joint type pipe fittings.
- F. Connections to Existing Water Pipelines. Connections of new water pipelines to existing water pipelines shall be made in a manner which does not require taking the existing water pipeline out of service. Where required, connections shall be made by the "hot tap" method. It shall be the responsibility of the Contractor to verify by actual field measurement all existing site conditions including the size and type of the existing pipeline prior to ordering the tapping sleeve and tapping valve for the hot-tap connection.
- G. Fire Hydrant Guard Posts. Guard posts (bollards) shall be installed at all fire hydrants not protected by curbing and at locations with curbing where in the opinion of the District the fire hydrant is not adequately protected from vehicle traffic. The number and location or required guard posts will be determined in the field by the District. The posts shall be installed 3 feet into the ground using concrete encasement. Following installation the interior of the pipe shall be filled with concrete.
- H. Leakage Test. All piping shall be tested for leakage in conformance with the requirements specified for each type of pipe. The Contractor shall provide all materials and labor required for the leakage test including the pump, pressure gauge, corporation stops, and temporary plugs and thrust blocks. The procedure shall be to (1) fill the pipeline with water to the required test pressure, (2) disconnect the test pump hose and wait for the duration of the test period to elapse, (3) reconnect the test pump and measure the volume of water required to re-establish the test pressure. Following completion of the test the Contractor shall dispose of the leakage test water in conformance with NPDES regulations. It shall be the Contractor's responsibility to block off during the testing all piping appurtenances which may be damaged by the test

pressure and to provide suitable thrust restraints. Leakage testing shall be witnessed by the District.

I. Disinfection and Bacteriological Testing:

1. General. All piping systems conveying potable water shall be disinfected. Disinfection shall be in conformance with AWWA Standard C651 except as otherwise required by this document. The Contractor shall provide all materials and labor required for the disinfection process and shall dispose of the disinfection solution in conformance with NPDES requirements including dechlorination.
2. Procedure:
 - a. Preliminary Preparation. The system shall be flushed with water to remove dirt introduced into the piping during construction operations. All service outlets and fire hydrants shall be opened and the flushing operations continued until clear water flows from each outlet (Note: flushing shall be deferred until after completion of the disinfection process if tablets have been placed in the pipeline during the construction for disinfection).
 - b. Introduction of Disinfection Agent. The disinfection agent may be any chlorine compound approved by AWWA C651. The disinfection agent shall be injected slowly and continuously into the system until tests indicate a chlorine residual concentration of at least 25 mg/L at each pipeline outlet. All outlets shall then be closed and this condition maintained for 24 hours.
 - c. Preliminary Tests. After 24 hours tests shall be made for residual chlorine at each pipeline outlet. The minimum acceptable concentration shall be 10 mg/L. If the concentration is less than 10 mg/L, the disinfection procedure shall be repeated. If the concentration at each outlet is over 10 mg/L, the system shall be flushed out until a test at each outlet indicates a chlorine residual of less than 1.0 mg/L.
 - d. Bacteriological Analyses. The CCWD will obtain samples from the piping being disinfected and have bacteriological analyses performed by a State certified laboratory. The number of samples taken shall conform to AWWA C651 (unless otherwise permitted by the District) and State Department of Health Services requirements. Costs of bacteriological analyses shall be paid by the Contractor.
 - e. Final Approval. The requirement for final approval is that each water sample analyzed shall be in conformance with State disinfection requirements. If all bacteriological analyses are not in conformance with these requirements the disinfection procedure shall be repeated.
 - f. Disinfection by Spraying or Swabbing. Water piping installations which cannot be disinfected using the procedure

described above shall be disinfected by spraying or swabbing the pipeline interior with a minimum 1% chlorine solution immediately prior to installation.

3.06 DUCTILE IRON PIPE INSTALLATION

- A. General. Pipe installation shall be in conformance with Sections 1 through 3 of AWWA Standard C600 except as otherwise required by this Specification section. Pipe installation shall also be in conformance with the recommendations of the manufacturers of the pipe and fittings.
- B. Handling. Pipe shall be handled using pipe slings. Use of a forklift will not be permitted. Pipe ends shall be kept clean and shall be plugged at the end of each day's work or when pipe is not being laid to prevent the entry of water or foreign material.
- C. Restrained Joints and Concrete Thrust Blocks. All pipe joints shall be restrained using the materials described in Part 2 of this Specification section and also with a concrete thrust block.
- D. Pipe Taps. Pipe taps will be permitted in accordance with the following schedule:

Pipe Tap Schedule

| <u>Pipe Diameter</u> | <u>Maximum Tap Size</u> | |
|----------------------|-------------------------|--------------------|
| | <u>Without Saddle</u> | <u>With Saddle</u> |
| 4" | 3/4" | 2-1/2" |
| 6" | 1-1/4" | 2-1/2" |
| 8" | 1-1/2" | 2-1/2" |
| 10" and larger | 2" | 2-1/2" |

If the piping connection of larger pipes than permitted for taps is required, standard tee fitting shall be utilized.

- E. Maximum Pipe Joint Deflection. Special care shall be taken so as not to exceed the manufacturer's recommendations for joint deflection. For bends exceeding the applicable deflection, fittings shall be installed.
- F. Polyethylene Encasement. All ductile iron piping including pipe, fittings, valves and piping appurtenances shall be polyethylene encased. Installation shall be in conformance with either Methods A or B of AWWA Standard C105. The polyethylene encasement shall prevent contact between the piping and the surrounding backfill and bedding material but is not intended to be a completely airtight or watertight enclosure. Overlaps shall be secured by the use of adhesive tape furnished with the polyethylene encasement.
- G. Leakage Test. All ductile iron piping shall be tested for leakage for a duration of 2 hours at a test pressure of 250 psi. Allowable leakage for below grade piping shall not exceed the following:

| <u>Pipe Diameter</u> | <u>Allowable Leakage per 1000 Linear Feet of Pipe During the 2 Hour Test Period</u> |
|----------------------|---|
| 4" | 0.47 gallons |

| | |
|-----|--------------|
| 6" | 0.71 gallons |
| 8" | 0.95 gallons |
| 10" | 1.19 gallons |

3.07 COPPER SERVICE TUBING INSTALLATION

- A. Installation. Installation of copper tubing including jointing shall be in conformance with the recommendations of the manufacturers of the tubing and fittings.
- B. Leakage Test. Copper tubing shall be hydrostatically tested for leakage at 250 psi for a 2 hour duration test period. No leakage will be permitted.

3.08 INSTALLATION OF VALVES AND OTHER PIPING ACCESSORIES

- A. Installation of valves and other piping accessories shall be in conformance with the recommendations of the manufacturer of the product and in conformance with the District Standard Installation Details. A valve box shall be provided for each below grade valve. The Contactor shall demonstrate to the satisfaction of the District the proper performance of each piping accessory prior to project acceptance.
- B. Air Relief Valve Assemblies. An air relief valve assembly shall be installed at each pipeline high point where in the opinion of the CCWD entrapment of air could occur. The known locations where air relief valves are required are shown on the Contract Drawings. During construction, if additional pipeline high points are created which in the opinion of the CCWD could result in air entrapment, an air relief valve shall be installed at each of these additional locations.

3.09 FIRE HYDRANT GUARD POSTS

- A. The number of guard posts (bollards) to be installed and their location will be determined in the field by the District. Each post shall be installed 3 feet into the ground using concrete encasement, and following installation the post shall be filled with concrete.

3.10 JACK AND BORE WATER PIPELINE CONSTRUCTION

- A. Methodology. Where shown on the Improvement Plans, water pipelines shall be constructed by the jack and bore methodology in which the carrier water

pipeline is installed within a casing pipe. Installation of the casing pipe by open cut will not be permitted.

- B. Casing sections shall be continuously welded for water tightness.
- C. Wing cutters when used shall only add a maximum of 1" in diameter to the outside diameter of the encasement pipe.
- D. The length of the auger strand shall be equal to that of the section of casing pipe.
- E. Bore (Jacking) and Receiving Pits. Pits shall be shored in accordance with Cal-OSHA requirements and as required for the type of soil encountered and the groundwater level encountered during the excavation. The Contractor shall retain the services of a qualified geotechnical company to perform soils testing at the site of the pits to determine the types of soils and groundwater levels to be encountered during excavation of the pits. The Contractor shall retain the services of a qualified, California-licensed civil or structural engineer experienced in shoring design to perform the shoring design for each pit.
- F. Carrier (Water) Pipe Installation. Casing insulators shall be installed in conformance with the recommendations of the manufacturer. For each 18 foot long pipe section a minimum of 3 insulators shall be installed: one located one foot from the pipe bell, one located in the center of the pipe section, and one located one foot from the end of the bell (adjacent to the bell of the next pipe section). Casing end seals shall be installed in conformance with the recommendations of the manufacturer.
- G. Disposal of Groundwater. If dewatering of the jacking or receiving pits is required, disposal of the groundwater shall be in conformance with NPDES and all other applicable regulations and requirements.

3.11 SERVICE CONNECTION INSTALLATION

- A. Piping for Water Meter Installation. The piping for the water meter installation shall be constructed at a sufficient depth below grade to allow sufficient space for installation of the water meter and its automatic metering reading head. The required distance will vary depending on the size of water meter. CCWD personnel will provide the Contractor with the required information.
- B. Irrigation Service Connections. Irrigation service connections where shown on the project drawings shall consist of both an irrigation water meter service connection and a backflow prevention device. A CCWD Standard Installation Detail for each is included in this Specification document.

3.12 AS-BUILT DRAWINGS

- A. Prior to project acceptance, the Contractor shall provide the District with a set of the project drawings marked for As-Built conditions. The as-built markings shall include the following (1) all changes made to the project drawings during construction, (2) field measurements locating the actual location of the pipeline horizontally from property corners and other surface facilities, (3) horizontal distance of each valve from a minimum of 2 permanent surface facilities such as utility poles, curb and gutter, etc., (4) depth of cover for the pipeline at all locations, as constructed, and (5) the locations of all underground facilities encountered during construction including horizontal location and depth of cover. In addition, documentation shall be provided describing each location where a sanitary sewer pipeline passes over a water pipeline.

3.12 CCWD STANDARD INSTALLATION DETAILS AND SPECIAL INSTALLATION DETAILS

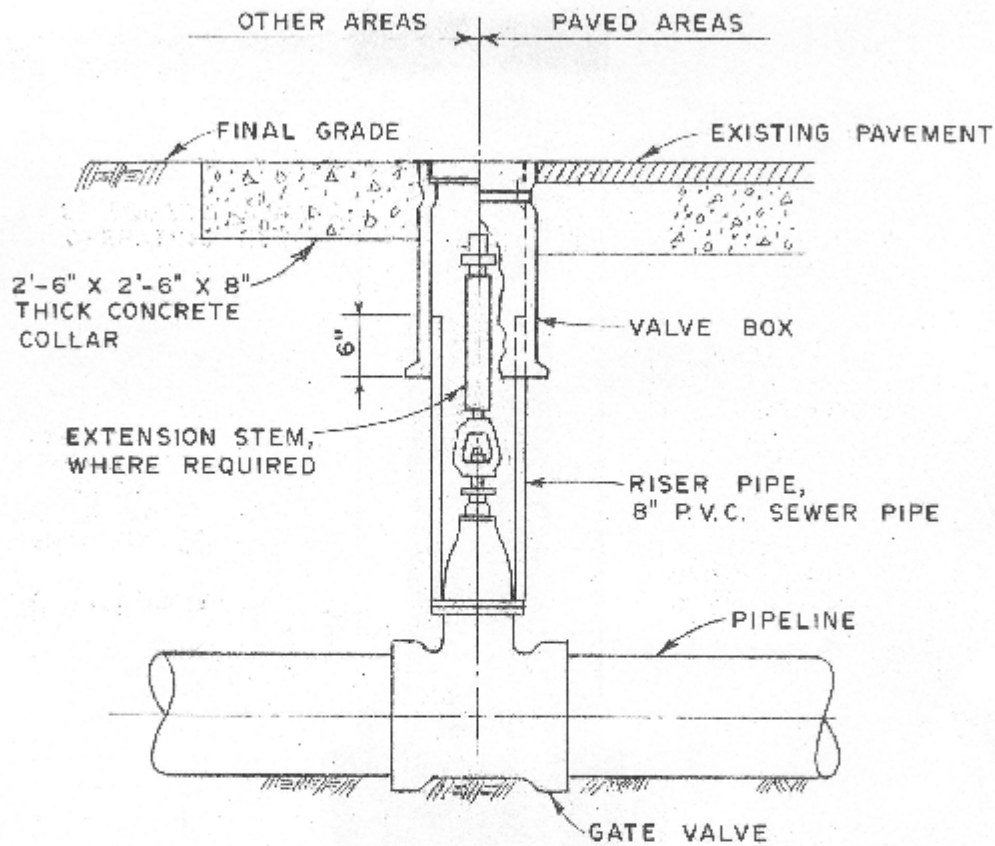
- A. General. Installation of piping and appurtenances shall be in conformance with CCWD Standard Installation Details and special installation details prepared by the CCWD for the project. If there are conflicts between the CCWD Standard Installation Details and the project Improvement Plans, conflict resolution shall be performed by the CCWD District Engineer.
- B. Standard Installation Details. Details known to be required for the project are included in this Water System Specifications for Pacific Ridge document:
 - 1. Gate Valve.
 - 2. Valve Location and Marking.
 - 3. Air Release Valve.
 - 4. Fire Hydrant. Location of fire hydrants shall be as shown on the Improvement Plans for Pacific Ridge. Minimum clearance distance from fire hydrant piping and joint trench facilities shall be: 3 feet horizontal and 1 foot vertical.
 - 5. Horizontal Thrust Blocks.
 - 6. Vertical Thrust Blocks.
 - 7. $\frac{3}{4}$ " Domestic Service Connection with 1" Fire Service Connection. Location of service connection facilities shall be as shown on the Improvement Plans for Pacific Ridge. Minimum clearance distance from service connection piping and joint trench facilities shall be: 3 feet horizontal and 1 foot vertical.
 - 8. Irrigation Service Connection. Location of irrigation service connections shall be as shown on the Improvement Plans for Pacific Ridge. Size of

irrigation service connections shall be 1-1/2 inch diameter. Each irrigation service connection shall also include a backflow prevention device.

9. Backflow Prevention Device.

- C. Special Installation Details. There are no special installation details known to be required for this project. If required, special installation details will be prepared by the District and provided to the Contractor.

END OF WRITTEN DOCUMENT
(Standard Installation Details Follow)



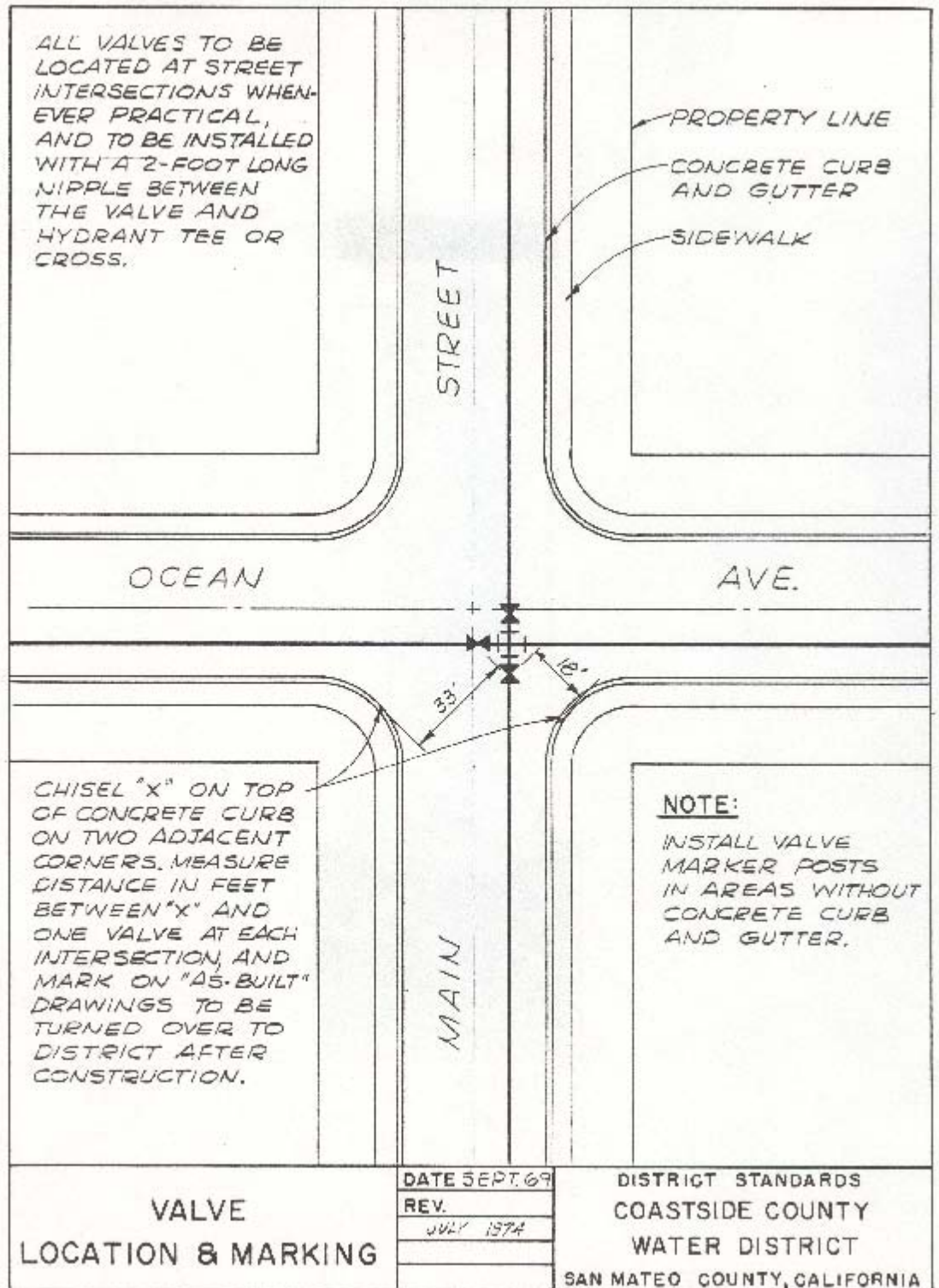
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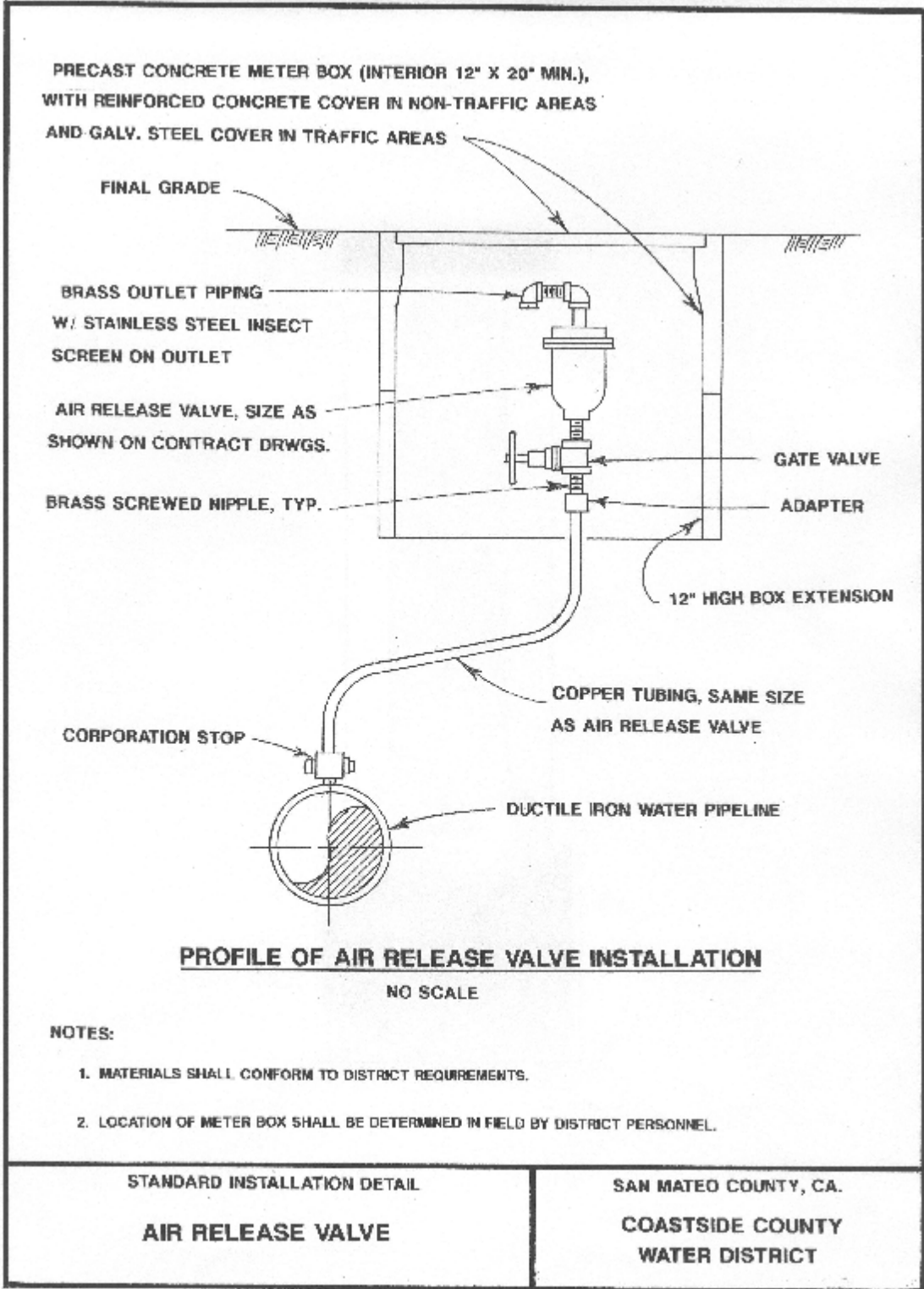
1. SEE SPECIFICATIONS FOR MATERIAL AND ADDITIONAL INSTALLATION REQUIREMENTS.

GATE VALVE
(ALL VALVES 12" AND SMALLER)

| | |
|------|-----------|
| DATE | SEPT. 69 |
| REV. | |
| | JULY 1974 |
| | NOV 1981 |
| | JULY 2009 |

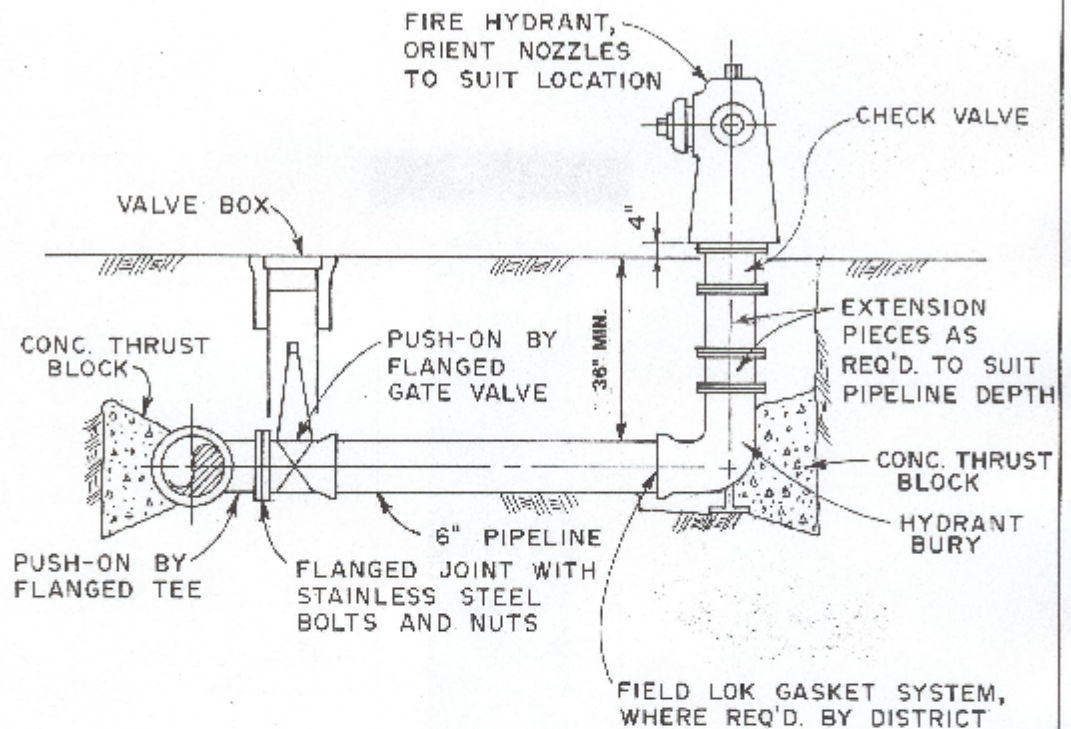
DISTRICT STANDARDS
COASTSIDE COUNTY
WATER DISTRICT
SAN MATEO COUNTY, CALIFORNIA





NOTE:

ALL BOLTS AND NUTS FOR FLANGED JOINTS, BOTH ABOVE AND BELOW GRADE, SHALL BE STAINLESS STEEL.

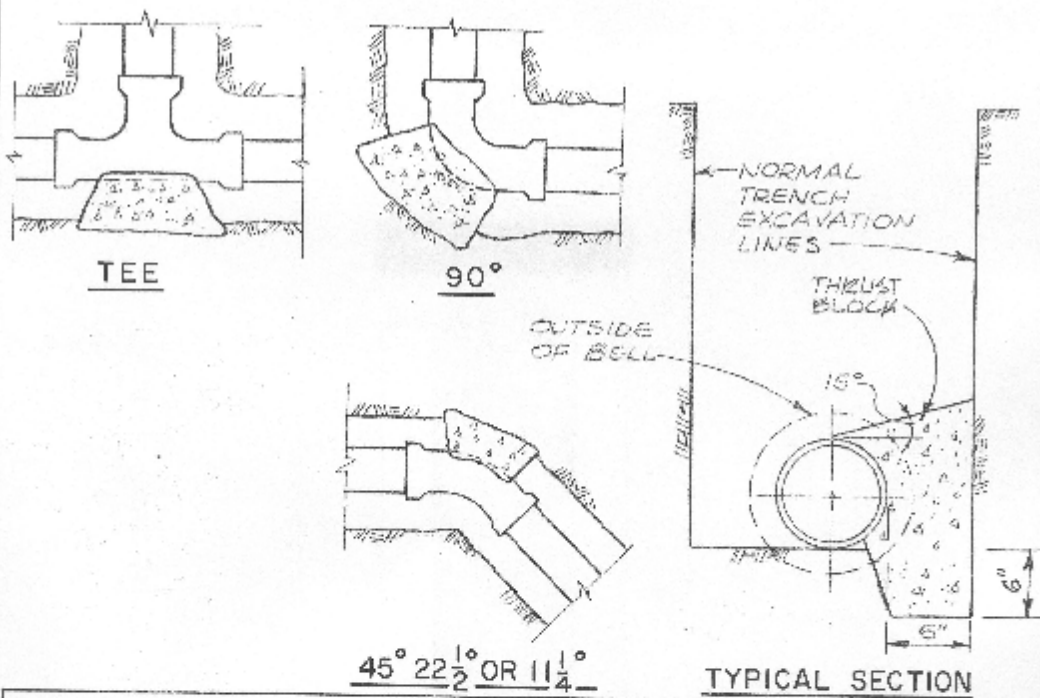


NOTES:

1. HYDRANT SHALL TYPICALLY BE LOCATED 2' BEHIND CURB. IN OTHER AREAS LOCATION SHALL BE DETERMINED IN FIELD BY DISTRICT.
2. USE HORIZONTAL BENDS IN 6" PIPELINE AS REQUIRED, BUT NO VERTICAL BENDS.
3. MATERIALS SHALL CONFORM TO SPECIFICATION REQUIREMENTS.
4. EACH HYDRANT SHALL HAVE 2-2 1/2" OUTLETS & 1-4 1/2" OUTLET. OUTLETS SHALL BE ORIENTED AS DIRECTED BY DISTRICT.
5. GUARD POSTS, NUMBER AND LOCATION TO BE DETERMINED IN FIELD BY DISTRICT, SHALL BE INSTALLED IN LOCATIONS WITHOUT CURB OR WHERE THE HYDRANT IS NOT ADEQUATELY PROTECTED BY CURB. GUARD POSTS SHALL BE 4" DIA. SCH. 40 GALVANIZED STEEL PIPE, 6 FEET LONG, INSTALLED 3 FEET DEEP IN CONCRETE, AND FILLED WITH CONCRETE.

FIRE HYDRANT

DISTRICT STANDARDS
COASTSIDE COUNTY
WATER DISTRICT
SAN MATEO COUNTY, CALIFORNIA



MINIMUM REQUIRED BEARING AREA AGAINST UNDISTURBED EARTH WALL

| PIPE SIZE | AREA IN SQUARE FEET AT FITTINGS | | | | |
|-----------|---------------------------------|-----|-----|---------|---------|
| | TEE CROSS | 90° | 45° | 22 1/2° | 11 1/4° |
| 6 | 3 | 5 | 3 | 2 | 2 |
| 8 | 6 | 8 | 4 | 2 | 2 |
| 10 | 8 | 11 | 6 | 3 | 2 |
| 12 | 11 | 15 | 8 | 4 | 2 |
| 16 | 18 | 25 | 14 | 7 | 4 |

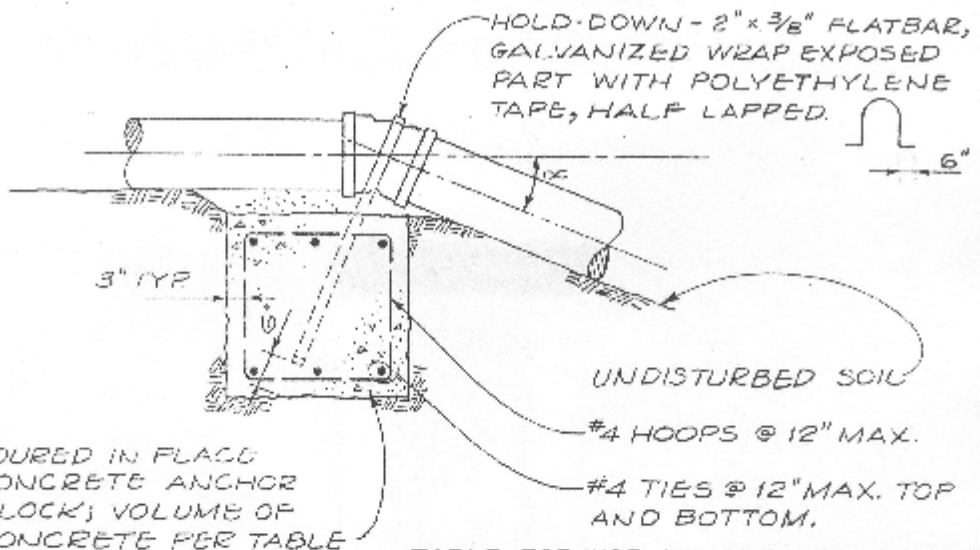
NOTES:

1. THRUST BLOCKS SHALL BE PLAIN CONCRETE POURED AGAINST UNDISTURBED EARTH.
2. CAPS AND PLUGS SHALL HAVE THRUST BLOCKS WITH AREAS AS SPECIFIED FOR TEES. CAPS, PLUGS, FLANGES, AND MECHANICAL JOINTS SHALL BE COVERED WITH 8 MILS OF POLYETHYLENE BEFORE THRUST BLOCKS ARE POURED.
3. AREA IS IN A PLANE AT RIGHT ANGLES TO THE LINE OF RESULTANT THRUST.
4. THRUST BLOCKS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING VALUE OF 3000 LB/S.F. AND 200 P.S.I.G. TEST PRESSURE. AREAS SHALL BE INCREASED FOR SOILS WITH LOWER BEARING VALUES OR FOR HIGHER TEST PRESSURE.

HORIZONTAL THRUST BLOCKS

DATE SEPT. 69
REV. APR. 72

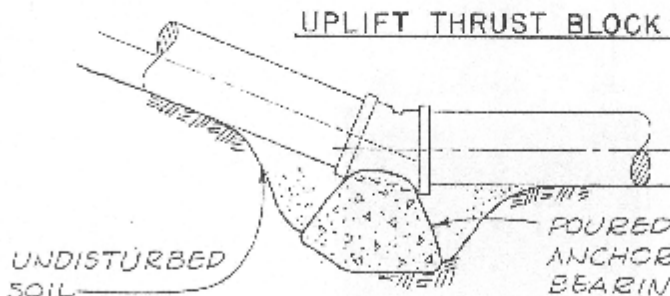
DISTRICT STANDARDS
COASTSIDE COUNTY
WATER DISTRICT
SAN MATEO COUNTY, CALIFORNIA



POURED IN PLACE CONCRETE ANCHOR BLOCK; VOLUME OF CONCRETE PER TABLE

TABLE-FOR WORKING PRESSURE 150 PSI

| PIPE SIZE | REQUIRED CONCRETE VOLUME CUBIC FEET | | |
|-----------|-------------------------------------|--------------------------------|---------------------|
| | $\alpha = 11\frac{1}{4}^\circ$ | $\alpha = 22\frac{1}{2}^\circ$ | $\alpha = 45^\circ$ |
| 6" | 11 | 21 | 41 |
| 8" | 19 | 38 | 74 |
| 10" | 29 | 58 | 112 |
| 12" | 41 | 84 | — |

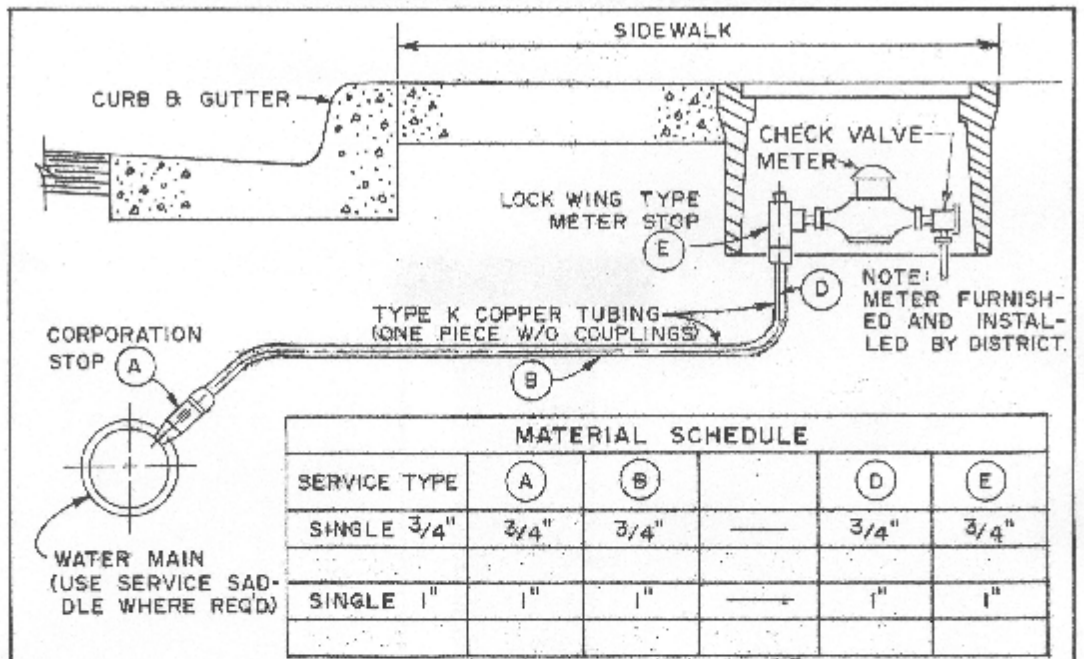


DOWNTHRUST THRUST BLOCK

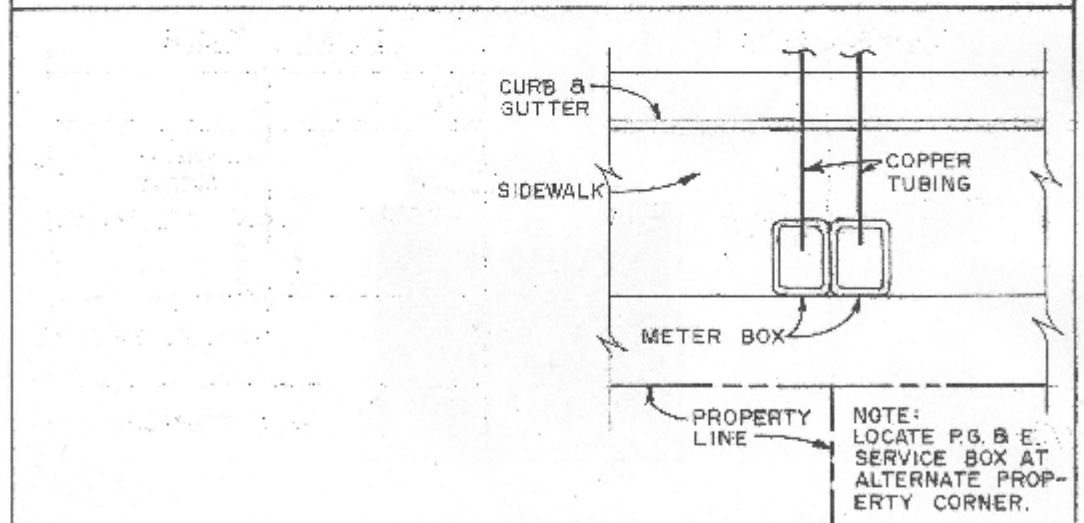
VERTICAL THRUST BLOCKS

| | |
|------|-----------|
| DATE | DEC. 69 |
| REV. | |
| | JULY 1974 |
| | NOV. 1981 |

DISTRICT STANDARDS
 COASTSIDE COUNTY
 WATER DISTRICT
 SAN MATEO COUNTY, CALIFORNIA

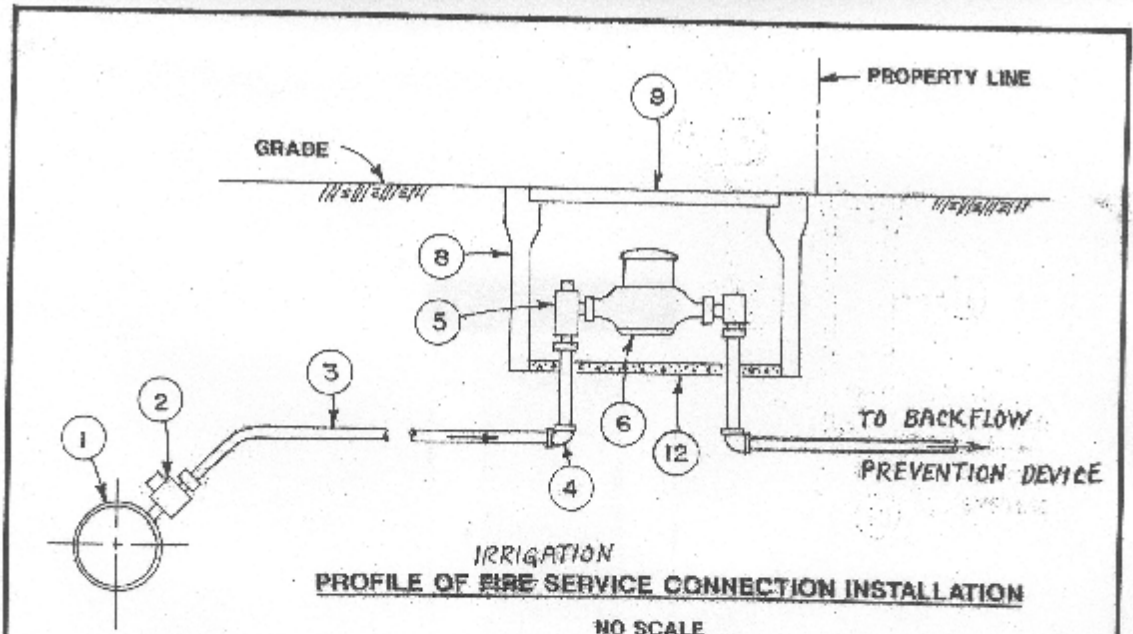


TYPICAL INSTALLATION DETAIL



TYPICAL LOCATION DETAIL

| | | |
|--|----------------|--|
| 3/4" DOMESTIC SERVICE CONNECTION WITH 1" FIRE SERVICE CONNECTION | DATE: DEC. '75 | DISTRICT STANDARDS COASTSIDE COUNTY WATER DISTRICT SAN MATEO COUNTY, CALIFORNIA |
| | REV.: MAR. '83 | |
| | MAR. '08 | |
| | JULY '09 | |



**IRRIGATION
PROFILE OF FIRE SERVICE CONNECTION INSTALLATION**
NO SCALE

LEGEND

- ① CCWD WATER MAIN. CONSULT DISTRICT FOR DIAMETER, MATERIAL & SADDLE REQUIREMENTS.
- ② CORPORATION STOP, A.W.W.A. INLET THREAD & COMPRESSION TYPE OUTLET CONNECTION.
- ③ COPPER TUBING, TYPE K (SOFT), SAME SIZE AS WATER METER.
- ④ QUARTER BEND (90 DEGREE) UNION, COMPRESSION CONNECTION TYPE.
- ⑤ ANGLE METER STOP, INLET COMPRESSION CONNECTION TYPE.
- ⑥ WATER METER. INSTALL DIRECTLY BENEATH READING LID IN METER BOX COVER (WHERE APPLICABLE).

CONTINUED ON REVERSE SIDE

| | |
|---|--|
| <p>STANDARD INSTALLATION DETAIL 3/4 - 2" SIZE IRRIGATION SERVICE CONNECTION</p> | <p>SAN MATEO COUNTY, CA. COASTSIDE COUNTY WATER DISTRICT</p> |
|---|--|

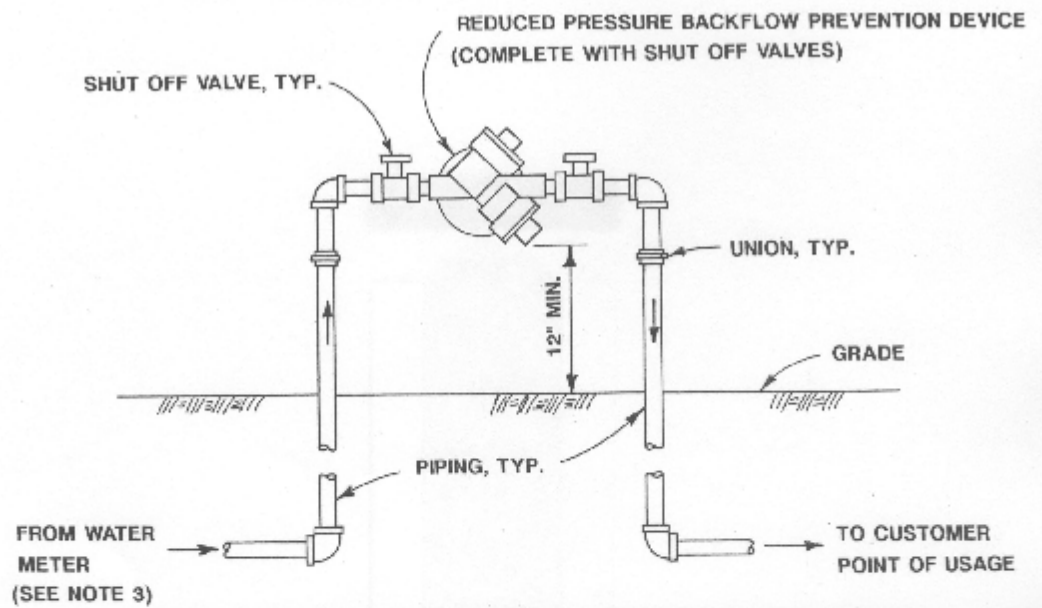
IRRIGATION

LEGEND FOR 3/4" - 2" SIZE FIRE SERVICE CONNECTIONS CONTINUED:

- ~~7~~ ~~ANGLE DUAL CHECK VALVE (NOTE: NOT REQUIRED WHERE BACKFLOW PREVENTION DEVICE IS INSTALLED)~~
- 8 METER BOX.
- 9 METER BOX LID (SEE NOTES).
- 10 GATE VALVE.
- 11 VALVE BOX.
- 12 CONCRETE, MINIMUM 1-1/2" THICK, PLACED AFTER SATISFACTORY COMPLETION OF LEAKAGE TESTING AND INSPECTION BY DISTRICT OF SERVICE CONNECTION INSTALLATION.

NOTES:

1. MATERIALS AND INSTALLATION SHALL BE IN CONFORMANCE WITH DISTRICT STANDARD SPECIFICATIONS.
2. UNLESS OTHERWISE REQUIRED BY THE DISTRICT, THE BACK EDGE OF THE METER BOX SHALL BE LOCATED IN PUBLIC RIGHT OF WAY ADJACENT TO THE PROPERTY LINE. WHERE REQUIRED BY THE DISTRICT, THE APPLICANT SHALL HAVE THE PROPERTY CORNERS ESTABLISHED BY A LICENSED SURVEYOR IN ORDER THAT THE PROPERTY LINE LOCATION CAN BE DETERMINED.
- ~~3. WHERE THERE IS A WATER WELL ON THE LAND PARCEL, INSTALLATION OF A BACKFLOW PREVENTION DEVICE WILL BE REQUIRED IN CONFORMANCE WITH CROSS CONNECTION REGULATIONS (NOTE: SEE DISTRICT STANDARD INSTALLATION DETAILS FOR BACKFLOW PREVENTION DEVICES).~~
4. METER BOX COVER REQUIREMENTS WILL BE DETERMINED BY THE DISTRICT. IN TRAFFIC OR POTENTIAL TRAFFIC LOCATIONS, STEEL CHECKER PLATE COVERS WILL BE REQUIRED. IN NON-TRAFFIC LOCATIONS, REINFORCED CONCRETE COVERS WILL BE REQUIRED.
5. THE PIPING FROM THE CCWD WATER MAIN TO THE METER STOP SHALL BE OWNED AND MAINTAINED BY THE CCWD. ALL PIPING AND APPURTENANCES DOWNSTREAM FROM THE METER STOP, INCLUDING THE METER BOX AND LID, SHALL BE CUSTOMER OWNED AND MAINTAINED.



PROFILE OF BACKFLOW PREVENTION DEVICE INSTALLATION

NO SCALE

NOTES:

1. BACKFLOW PREVENTION DEVICE MATERIALS AND INSTALLATION SHALL BE IN CONFORMANCE WITH COUNTY OF SAN MATEO REQUIREMENTS.
2. BACKFLOW PREVENTION DEVICE AND PIPING SHALL BE CUSTOMER OWNED AND MAINTAINED.
3. THE BACKFLOW PREVENTION DEVICE ASSEMBLY SHALL BE LOCATED AS CLOSE TO THE WATER METER AS IS PRACTICABLE.
4. A REMOVABLE ENCLOSURE OVER THE BACKFLOW PREVENTION DEVICE AND/OR INSULATION TO PROTECT AGAINST FREEZING IS RECOMMENDED (NOT SHOWN ABOVE).
5. MINIMUM PIPING SIZE SHALL BE THE SAME DIAMETER AS THE INLET PIPING TO THE WATER METER.

STANDARD INSTALLATION DETAIL

**3/4" - 2" BACKFLOW
PREVENTION DEVICE**

SAN MATEO COUNTY, CA.

**COASTSIDE COUNTY
WATER DISTRICT**

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David Dickson, General Manager

Agenda: September 8, 2009

Report

Date : September 1, 2009

Subject: Canada Cove – Water Service Agreement

Recommendation:

Approve Water Service Agreement between Coastside County Water District (CCWD) and Canada Cove Mobile Home Park.

Discussion:

Canada Cove Mobile Home Park is currently served with one two-inch meter and one one-inch meter. Due to flow limitations through these connections, the park has a storage tank and booster pump to provide sufficient flow and pressure in the event of a fire. In addition to being at the end of its useful life, this system has the potential to create water quality problems within the park. District staff and District Engineer Jim Teter have worked with Canada Cove to design a new connection which will improve fire flows within the park and eliminate the tank and pump system.

The attached Water Service Agreement provides for installation of a 6-inch diameter pipeline extension from CCWD's existing 8-inch main in Miramontes Point Road to and a fire service meter assembly that consists of a six-inch water meter for fire protection service and a two-inch water meter for domestic water service.

District Engineer Jim Teter provided the engineering design for this pipeline extension and meter installation. Canada Cove will be responsible for completing construction in accordance with District requirements.

Fiscal Impact:

The applicant has already paid initial filing and plan check fees to the District. Along with execution of the Water Service Agreement, applicant will pay associated water meter installation fees. The cost of construction will be paid entirely by the applicant.

WATER SERVICE AGREEMENT
CANADA COVE PIPELINE EXTENSION PROJECT

THIS AGREEMENT is made as of this ____ day of _____, 2009, between COASTSIDE COUNTY WATER DISTRICT ("District"), and CANADA COVE MOBILE HOME PARK ("Applicant").

THE PARTIES AGREE AS FOLLOWS:

1. RECITALS

This Agreement is entered into with regard to the following facts and circumstances.

A. District is a public corporation organized under the provisions of the California Water Code and is engaged in the storage, transmission and sale of water for domestic purposes within San Mateo County.

B. Applicant is Canada Cove, LLC engaged in the management and operation of a mobile home park within the geographical limits of the District. Applicant is the owner of certain real property consisting of approximately Forty (40) acres located west of State Highway One, in the City of Half Moon Bay, designated Assessor's Parcel Number 066-081-150 ("the Property"), the location of which is shown on Exhibit A.

C. Applicant provides water service to the residents in the Canada Cove Mobile Home Park ("Mobile Home Park") through a privately owned water distribution system.

D. Applicant currently purchases water from the District through two water services connections: one two-inch service connection and one one-inch service connection.

E. Applicant historically has provided fire protection to the Mobile Home Park through an on-site water storage tank and a booster pump. Both the water storage tank and the booster pump are at the end of their useful life. Rather than replace the water storage tank and the booster pump, Applicant has requested that the District provide a water service connection that is designed to meet the Applicant's fire protection and domestic water service needs in a manner that protects the integrity of the District's water system.

F. Applicant has requested the installation of the following: (1) a six-inch pipeline extension; and (2) a six-inch by two-inch fire service meter assembly that consists of a six-inch water meter for fire protection service and a two-inch water meter for domestic water service ("Project"). As part of the Project the Applicant's existing two-inch water service connection will be removed; the one-inch water service connection will remain in place. The general layout of the Project is shown on Exhibit B.

G. It is anticipated that Applicant's peak demands will exceed the limitations currently in place with the two-inch and one-inch water service connections, and therefore Applicant will purchase additional capacity.

H. Applicant represents and warrants that Applicant has obtained any and all permits and approvals necessary to construct the Project on the Property.

2. APPROVAL OF PROJECT UTILITY SYSTEM

The Project Utility System, as defined below, shown on and described in the plans prepared by James S. Teter, Consulting Engineer, (hereinafter collectively, the "reviewed submittal documents"), are approved. Copies of the reviewed submittal documents are on file at the office of the District and are incorporated herein by this reference as Exhibit C.

"Project Utility System" means the water mains, house service lines, fittings, valves and housing thereof, fire hydrants, manholes, and all appurtenances thereto, except the water meters, required to service the Project, as depicted and described in the reviewed submittal documents.

3. INSTALLATION

A. Applicant shall commence installation of the Project Utility System no later than three (3) months, subject to extension for force majeure events not the fault of Applicant, after the date of this Agreement and shall complete its installation within twelve (12) months after the date of this Agreement. If installation is not commenced and/or completed by such dates, the District may terminate this Agreement, unless the delay is solely attributable to events, such as fire, flood or earthquake, which are beyond the control of, and not the fault of, Applicant.

B. Applicant shall install the Project Utility System in accordance with (1) the location and sizes shown on the reviewed submittal documents identified in Section 2; (2) the District's "Standard Specifications and Construction Details," a copy of which has previously been furnished to Applicant; and (3) the further reasonable directions of the District Engineer.

4. INSPECTION / CONSTRUCTION

A. Prior to commencing construction, Applicant shall furnish to the District Engineer, at Applicant's expense, a report by a competent soils engineer or soils laboratory indicating that the compaction of the fills within which said facilities are to be installed is at least equal to ninety-five percent (95%) compaction, as that phrase is defined in the latest edition of the Standard Specifications, State of California, Department of Transportation, or meets such other criteria as the District Engineer may prescribe.

B. Applicant shall notify District in writing at least ten (10) days in advance of the proposed starting date for construction and shall not commence construction unless the District Engineer or other authorized District inspector is at the site of the work when construction begins. District agrees to make the District Engineer or other authorized District inspector available to be on site, provided the ten (10) days advance notice is given by Applicant. If construction is not continuous, District shall be notified at least forty-eight (48) hours in advance of the resumption of construction. Any work performed without notice to District may be rejected by District on that ground alone. The District Engineer will observe and inspect facilities solely to protect the interests of the District and to determine whether the completed work is acceptable to District and can be incorporated into the District system. The District does not assume thereby any responsibility for the operations or safety practices of Applicant. Applicant is responsible for correct location of all facilities which it installs. The District Engineer will not inspect facilities installed "downstream" of the individual meter boxes.

C. Applicant shall permit District's employees and authorized representatives to inspect the Project Utility System, and the plans and materials therefore, at any reasonable time before, during, or after installation.

D. Applicant shall repair at its expense (or, at the option of District, shall reimburse District for the actual cost of repairs effected by it) any damage to District property caused by Applicant, its agents, employees, or contractors in constructing the Project Utility System.

5. PAYMENT OF FEES AND CHARGES

The Applicant will pay applicable fees and charges as follows:

A. Transmission and Storage Fees. Applicant previously paid transmission and storage fees for the existing two-inch and one-inch water service connections serving the Property.

B. Water Meter Installation Fees. Concurrently with the execution of this Agreement, Applicant shall deposit Five Thousand Dollars (\$5000.00) towards the cost of purchasing and installing one six-inch by two-inch water meter. Applicant will pay the District's actual cost of purchase and installation of the meter at the time it wishes to arrange for meter installation. If the actual cost is less than the deposit, the difference will be refunded to the Applicant within two (2) weeks from completion of installation. If the actual cost is more than the deposit, Applicant shall pay the balance to the District within two (2) weeks of the District's notifying the Applicant of the amount due.

C. Initial Filing Fee. The initial filing fee is the sum of all District costs associated with the initial review process. This amount is One Hundred and Fifty Dollars and no cents (\$150.00) which this amount has already been paid by the applicant. This fee is also non-refundable to the applicant.

D. Plan Check and Construction Inspection Fees. Concurrently with the execution of this Agreement, Applicant has paid a deposit in the amount Ten Thousand Dollars and no cents (\$10,000.00), which is the amount due for the District staff and Engineer's costs in reviewing final plans, inspecting the construction of the Project Utility System, modifications of water system maps, and administrative, legal, and auditing costs.

E. Total Payment Due with Agreement. The total payment due concurrently with execution of this Agreement shall be Five Thousand Dollars (\$5000.00), which represents the sum of fees listed in paragraphs A, B, C and D.

F. Meter Charge and Water Usage Charge. Applicant agrees that Applicant will pay the monthly base charge for one two-inch meter and one one-inch water meter, and will pay the quantity charge for all water provided to Applicant regardless of how Applicant uses the water.

6. BONDS

Concurrently with the execution of this Agreement, Applicant shall furnish to District the following bonds:

A. Payment Bond: in the sum of _____ Dollars (\$ _____), which shall be 100% of the cost of construction of the Project Utility System as estimated by the District Engineer, to guarantee payment of the obligations referred to in Section 3248 of the Civil Code;

B. Performance Bond: in the sum of _____ Dollars (\$ _____) to guarantee the faithful performance of the terms of this Agreement; and

C. Maintenance Bond: in the sum of _____ Dollars (\$ _____) (which shall not be less than ten percent (10%) of the estimated cost of constructing the Project Utility System) against defective materials and faulty workmanship for a period of two (2) years from and after the acceptance of the Project Utility System by District.

The bonds shall be in a form satisfactory to District. The surety or sureties must be qualified to do business in California. If any of the sureties, in the sole opinion of District, is or becomes irresponsible, District may require other or additional sureties which Applicant shall furnish to the satisfaction of District within ten (10) days after notice from District. In default thereof, District shall be released from all obligations under this Agreement. No prepayment or delay in payment and no change, extension, addition, or alteration or any provision of this Agreement or in the approved submittal documents referred to in Section 2, above, and no forbearance or acceptance by or on the part of District shall operate to release any surety from liability on a bond.

7. INDEMNITY

A. District shall not be responsible or held liable in any manner whatsoever for any injury or damage which may be done to any person or property (or other loss or liability) arising from the performance or failure to perform the obligations set forth in this Agreement and the installation of the Project Utility System by or on behalf of Applicant.

B. Applicant, on its behalf and on behalf of its successors in interest, hereby agrees to waive any claims against District arising from or related to the events and activities described in Subsection A, above, and to indemnify, defend and hold harmless the District, its directors, officers, employees, and agents from and against any and all liability for the death of or injury to any person and for the loss of, or damage to, any property (including the loss of its use) which may arise from such events and activities. The agreements contained in this paragraph shall survive the performance of the remainder of this Agreement and shall remain in full force and effect notwithstanding such performance.

8. INSURANCE

A. Applicant or its construction contractor shall, at its cost, maintain in full force and effect during the period beginning with commencement of construction of the Project Utility System and terminating no earlier than thirty (30) days after completion thereof and approval by District for its connection with the District's distribution system, a policy or policies of liability insurance, as follows:

1. Bodily and personal injury liability in an amount not less than One Million Dollars (\$1,000,000.00) per person and Two Million Dollars (\$2,000,000.00) per occurrence; and

2. Property damage insurance in an amount not less than One Million Dollars (\$1,000,000.00) per occurrence.

Such policies shall insure District as an additional insured against any and all liability for the death of or injury to any person and for the loss of or damage to any property which may arise by reason of acts done or omitted to be done as a result of the installation of the Project Utility System by or on behalf of Applicant and shall further insure District against any and all costs and expenses, including attorneys fees, which District may incur in resisting any claim which may be made against District for any such injury or damage.

B. Each such policy shall:

1. be issued by an insurance company or companies qualified to do business in California and approved in writing by District;
2. name District, its Directors, officers, agents and employees, as additional insureds;
3. specify that it acts as Primary Insurance; the insurer being liable thereunder for the full amount of any loss up to and including the total limit of liability without right of contribution from any insurance effected by District;
4. provide that the policy shall not be cancelled or altered without thirty (30) days' prior written notice to District; and
5. otherwise be in form reasonably satisfactory to District.

C. Applicant or its contractor shall provide, and maintain at all times during the course of installation of the Project Utility System, Worker's Compensation Insurance in conformance with the laws of the State of California. Such policy shall provide that the underwriter thereof waives all right of subrogation against District by reason of any claim arising out of or connected with installation of the Project Utility System and that such policy shall not be cancelled or altered without thirty (30) days' prior written notice to District.

D. Copies of all policies required above (or Certificates of Insurance satisfactory to District) shall be delivered to District at least ten (10) days prior to commencement of construction of the Project Utility System.

9. WATER USE LIMITATION

Applicant agrees that the Project will be used only to provide water service to the same geographical location and for the same uses as are currently served by the existing two-inch water service connection, one-inch water service connection, and the water tank and booster pump. The geographical area is shown on the drawing attached as Exhibit A.

10. REMOVAL OF WATER STORAGE TANK

Within 90 days after District's acceptance of the Project Utility System, Applicant must remove the existing on-site water storage tank from the Property.

11. FIRE PROTECTION

Applicant, pursuant to its General Regulations Regarding Water Service, is solely responsible for obtaining all permits and approvals, and complying with all federal, state, and local laws and regulations pertaining to the Project. Applicant has engaged a qualified civil engineer to perform the computer hydraulic network analysis of the Applicant's water distribution system and fire protection service requirements. Applicant is solely responsible for ensuring that Applicant's water distribution system meets the flow requirements of all of its fire hydrants.

12. SIZING OF INTERIOR PLUMBING; WATER PRESSURE

Applicant acknowledges that the District's system in the area of the Project meets the District's minimum pressure requirements, but is subject to low water pressure conditions. It is Applicant's responsibility to see that water pressure at all fixture units located on the Property is sufficient; District shall have no responsibility to inspect the installation of interior plumbing fixtures or piping.

Applicant agrees to indemnify, defend, and hold harmless the District, its directors, officers, employees, and agents, against any and all claims, demands, causes of action, or liability of whatever nature arising out of or resulting from low pressure.

13. CONVEYANCE OF TITLE TO PROJECT UTILITY SYSTEM

Full right, title and interest in and to all elements of the Project Utility System installed pursuant hereto will be granted to District upon written notice of acceptance thereof by District and without the necessity for any further action by Applicant. There shall be no obligation upon District to pay or reimburse to Applicant any part of the cost of Project Utility System. Applicant warrants that upon such passage of title to District, the title shall be free and clear from any and all mechanics and materialmen liens that could arise from construction of the Project Utility System, charges and encumbrances whatsoever. The one six-inch by two-inch water meter described in Section 1.C, above, is and will remain the property of District.

14. CONVEYANCE OF EASEMENTS

Applicant further agrees that it will deliver to District easements necessary for access to and maintenance of the Project Utility System by executing a Grant of Easement in form and substance satisfactory to District and substantially in the form attached hereto as Exhibit F. The easements will be a minimum of ten (10) feet wide around all components of the Project Utility System. Because the exact location of the Project Utility System will not be known until completion of construction, Applicant will obtain the services of a licensed surveyor to prepare a metes and bounds description of the easement and plat drawings in a form acceptable to the District. The Applicant must deliver fully executed and acknowledged easements prior to District's acceptance of the Project.

15. ACCEPTANCE BY DISTRICT

District shall accept the Project Utility System when all of the following conditions have been met: (1) completion of the Project Utility System; (2) certification by District Engineer upon completion that the Project Utility System has been constructed in accordance with this Agreement; (3) furnishing by Applicant of evidence that it has paid all costs incurred in constructing the Project Utility System; (4) performance by Applicant of all of its obligations under this Agreement which are to be completed prior to acceptance of the Project Utility System, including payment of all sums due the District and conveyance of all easements; and (5) furnishing by Applicant of two sets of nonammonia-type mylar reproducible drawings of the completed improvements showing "as-built" conditions.

Upon acceptance, and payment for the cost of meter installation, District shall provide water utility service to the Project.

Upon acceptance, Applicant shall be relieved of all future obligation to maintain the Project Utility System, subject to its obligation to repair defects, which obligation is secured by the maintenance bond provided for in Section 6.C., for the duration of the term of such bond (i.e., two years after acceptance).

16. EXECUTION AND PERFORMANCE OF AGREEMENT

Execution of this Agreement is a condition precedent to issuance by District of any letters, approvals, consents, or communications to any state, municipal, local or other public bodies regarding the availability of water service to the Property from the Project. Full

performance of and compliance with each and every term of this Agreement by Applicant is a condition precedent to water service by District.

17. DISTRICT REGULATIONS

Applicant shall at all times abide by and faithfully observe any and all District ordinances, resolutions, rules and regulations presently in effect, including current fee schedules, or which may hereafter be enacted or amended from time to time, including but not limited to *Regulations Regarding Water Service Extensions and Water System Improvements; Engineering and Construction Standards; Approved Materials* (codified through Resolution No. 2003-11, March 2004), a copy of which has previously been furnished to Applicant.

18. ASSIGNMENT

Applicant's rights under this Agreement may be assigned only in connection with a sale or conveyance of the Property. No such assignment shall be valid or binding on the District unless the assignee executes a written instrument, in form and substance satisfactory to District, assuming all of Applicant's obligations under this Agreement, which have not been fully performed as of the date of assignment. Such assignment shall not release Applicant from any of its obligations to District under this Agreement.

This Agreement shall be binding upon and shall inure to the benefit of the parties and their successors and permitted assigns. If the Applicant or a permitted successor or assign shall disincorporate, forfeit its articles or right of incorporation, or otherwise fully terminate without a successor or assign, District shall as of the date of disincorporation, forfeiture or termination own the Project Utility System free and clear of any obligation to any party.

19. NOTICE

Any notice required by this Agreement shall be satisfied by a notice in writing, either delivered personally or sent by regular or certified mail, postage prepaid, and addressed as follows:

District: Coastside County Water District
766 Main Street
Half Moon Bay, CA 94019
Attention: David R. Dickson, General Manager

Applicant: Canada Cove Mobile Home Park
101 Canada Cove Avenue
Half Moon Bay, CA 94019
Attention: Vance Verderame

20. CONSTRUCTION OF AGREEMENT

Both parties have participated in preparing this Agreement. This Agreement shall be construed reasonably and not in favor of or against either party hereto on the grounds that one party prepared the Agreement.

21. ENTIRE AGREEMENT

This Agreement, including the Exhibits which are hereby incorporated by reference, contains the entire agreement between the parties hereto. No oral understandings, statements, promises or inducements contrary to the terms of this Agreement exist.

22. APPLICABLE LAW

This Agreement shall be governed by and construed and enforced in accordance with and subject to the laws of the State of California. Except as expressly provided for herein, this Agreement is not intended to, and does not, modify the District's rights to exercise the legislative discretion accorded to it by the laws of California. Any lawsuit related to this Agreement shall be commenced and prosecuted in the County of San Mateo, State of California.

23. AMENDMENT

Any amendment hereof, including any oral modification allegedly supported by new consideration, shall not be effective unless reduced to a writing signed by both parties.

24. AUTHORIZED SIGNATURE

The individuals whose names are subscribed to this Agreement represent that they are authorized to act on behalf of the party for whom they sign.

25. TIME

Time is of the essence of the Agreement.

IN WITNESS WHEREOF the parties hereto have executed this Agreement as of the day and year first above written.

COASTSIDE COUNTY WATER DISTRICT

CANADA COVE MOBILE HOME PARK

By: _____
President, Board of Directors

By: _____
Name: _____
Title: President or Vice President

By: _____
Secretary

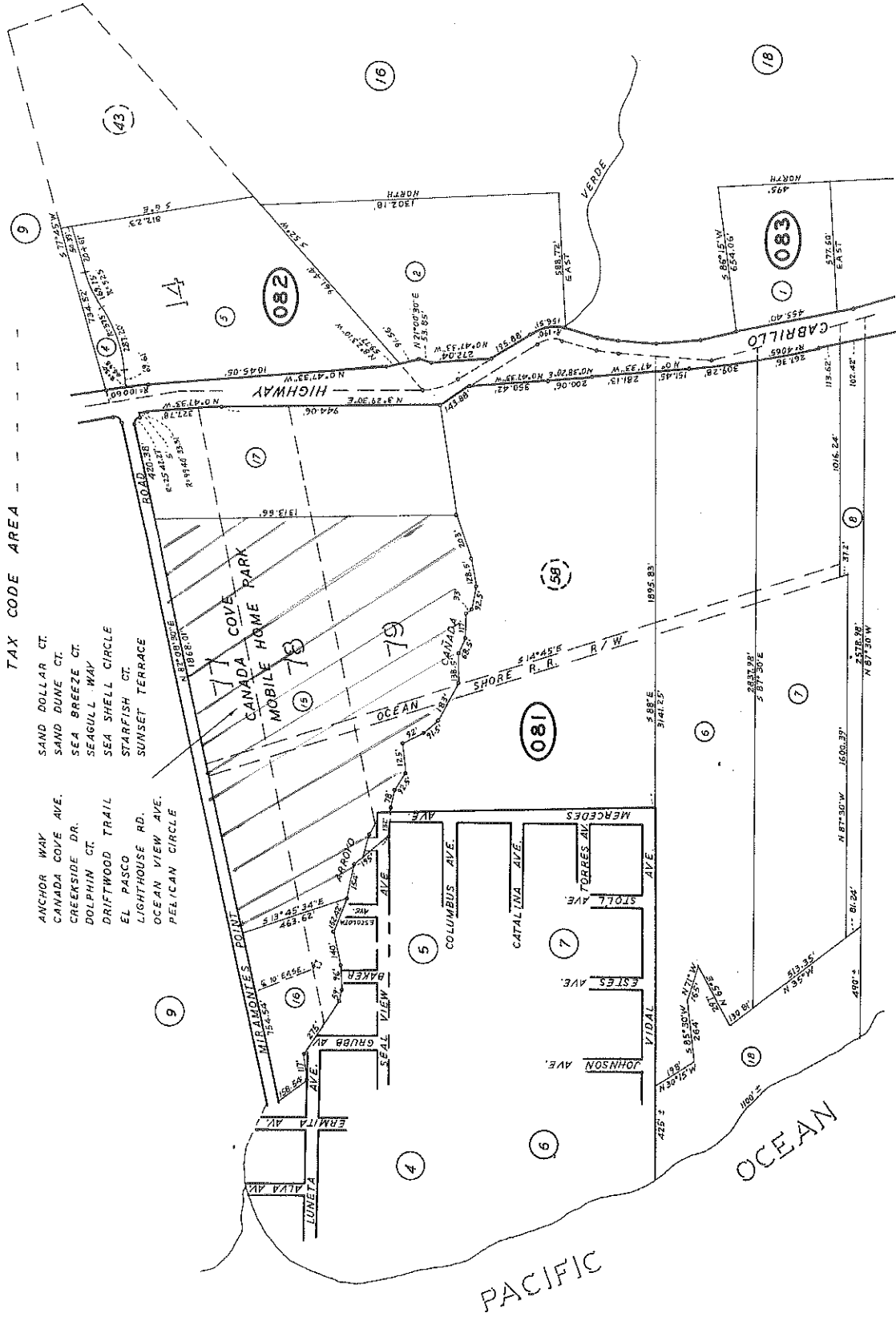
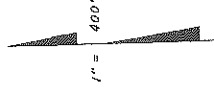
By: _____
Name: _____
Title: Secretary or Assistant Secretary

DRAFT

EXHIBIT A

66-8

DRAFT



JOHNSTON RANCH RSM 2 / 57

CABRILLO UNIFIED SCHOOL DISTRICT

ASSESSOR'S MAP COUNTY OF SAN MATEO CA

6L

3-88

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EXHIBIT B

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LEGEND



NEW PIPELINE



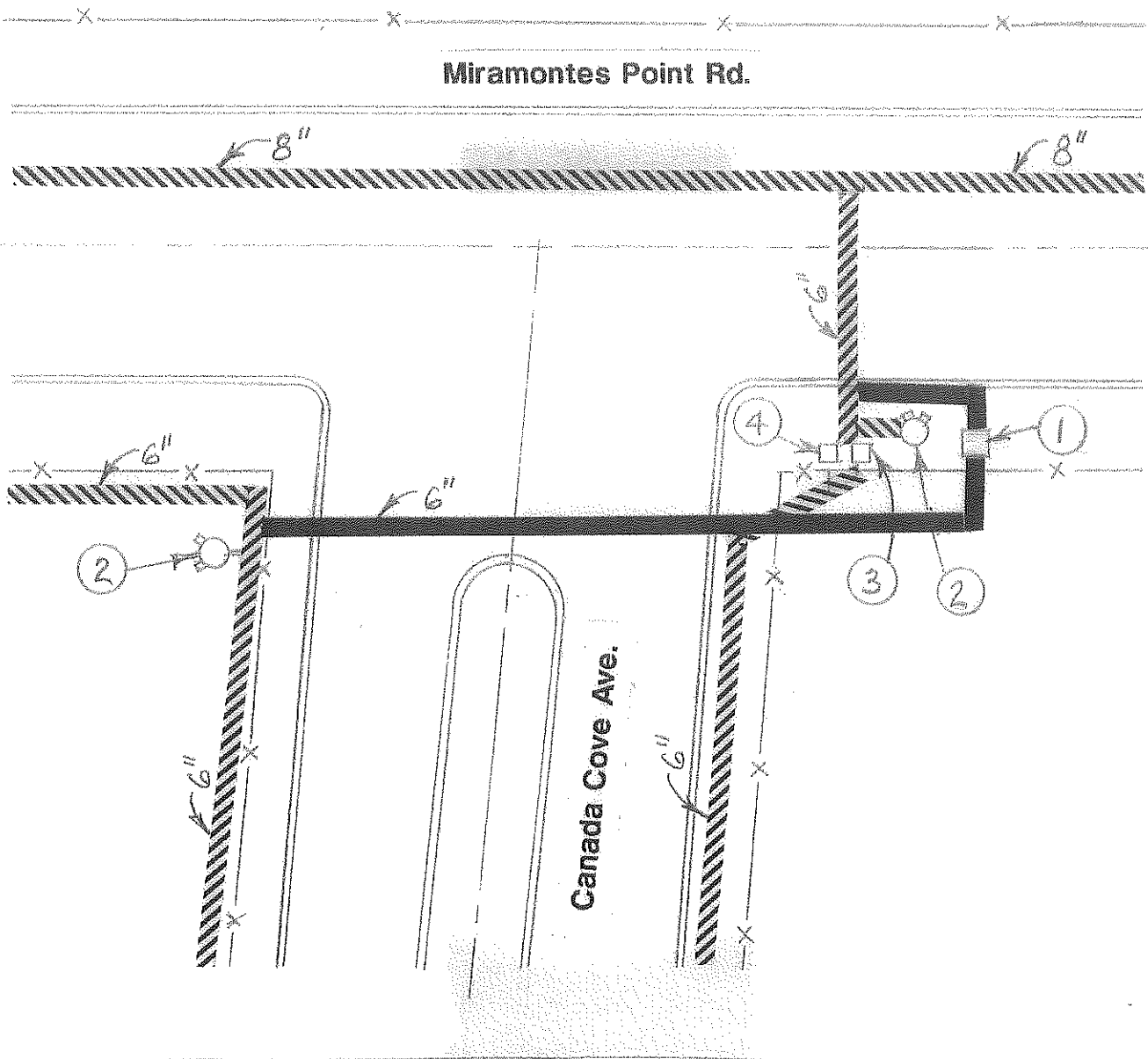
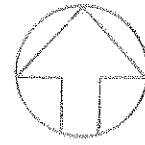
EXISTING PIPELINE

CIRCLED
NUMBER

DESCRIPTION

- | | |
|---|---|
| 1 | NEW 6 INCH SENSUS FIRELINE FIRE SERVICE ASSEMBLY WITH 2 INCH BYPASS METER. THE ASSEMBLY INCLUDES A 6 INCH DETECTOR CHECK VALVE DOWNSTREAM FROM THE 6 INCH METER AND A 2 INCH SWING CHECK VALVE DOWNSTREAM FROM THE 2 INCH BYPASS METER. |
| 2 | EXISTING FIRE HYDRANT. |
| 3 | EXISTING 2 INCH WATER METER TO BE REMOVED. |
| 4 | EXISTING 1 INCH WATER METER TO REMAIN. |

DRAFT



PLAN OF FIRE SERVICE PIPELINE INTERCONNECTION

CANADA COVE MOBILE HOME PARK

NO SCALE

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EXHIBIT C

August 24, 2009

Coastside County Water District

**WATER SYSTEM SPECIFICATIONS
FOR
PIPELINE EXTENSION TO CANADA COVE MOBILE HOME PARK**

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Project Description. The project consists of a 6 inch diameter pipeline extension from the Coastside County Water District's (CCWD) existing 8 inch diameter pipeline in Miramontes Point Road to the Canada Cove Mobile Home Park's (CCMHP) existing water distribution system. A portion of the project is located within the right of way area of Miramontes Point Road, and the remainder of the project is located within private property known as the Canada Cove Mobile Home Park.
- B. Ownership of Facilities. Following project acceptance by the CCWD, a portion of the project facilities will be owned, operated and maintained by the CCWD as shown on the Contract Drawings. The remainder of the project facilities will be owned, operated and maintained by the CCMHP as shown on the Contract Drawings.
- C. Contract Drawings and Technical Specifications. As requested by CCMHP and because it is more efficient to design and construct the project as one single project rather than 2 separate projects, the Contract Drawings and Technical Specifications have been prepared for the entire pipeline extension project which includes both the facilities to be owned, operated and maintained by the CCWD and also the facilities to be owned, operated and maintained by CCMHP.
- D. Specifications. These Specifications are not a complete set of contract documents. These Specifications contain only the Technical Specifications required for construction of the water system facilities. All other project specifications and contract documents are the responsibility of CCMHP.
- E. Drawings. This Specifications document shall be used in conjunction with the engineering drawings for the project which are described as follows:
 - 1) Site Plan, Sheet 1 of 2.

- 2) Piping Schematic Diagram, Sheet 2 of 2.
- 3) District Standard Installation Details Contained in Part 3 of this Specifications document.

1.02 REGULATORY AGENCIES

- A. Water System. All water system work shall be in conformance with the rules and regulations of the Coastside County Water District, County of San Mateo Department of Health Services, and the State Department of Health Services.
- B. Trench Backfill and Repaving. All trench backfill and repaving work within public right of way areas shall be performed in conformance with the requirements of the agency having jurisdiction over the right of way area. For work within the right of way of Miramontes Point Road, the agency having jurisdiction over the right of way area is the City of Half Moon Bay Department of Public Works.
- C. Safety. All work shall be in conformance with applicable State and Federal laws and regulations, rules and orders and as may be necessary in order that the work is performed in a safe manner and that the safety and health of the employees and the people of local communities is safeguarded.
- D. Pollution Abatement. All work shall be performed in conformance with NPDES (National Pollutant Discharge Elimination System) regulations as well as with all other applicable pollution abatement rules and regulations.

1.03 PERMITS

Prior to beginning work, the Applicant or the project Contractor shall obtain all permits required for the work. Work within the right of way area of Miramontes Point Road will require an encroachment permit from the City of Half Moon Bay.

1.04 INSPECTION

- A. Responsibility for Inspection:
 1. Water System Work Including Sand Bedding and Backfill:
 - a. Facilities Shown on the Drawings to be Owned by the CCWD. Inspection will be performed by the CCWD.
 - b. Facilities Shown on the Drawings to be Owned by the CCMHP. Inspection will be performed by the CCMHP.
 2. Trench Backfill Above the Sand Backfill and Repaving: Inspection will be performed by the CCMHP, including responsibility under the encroachment permit for the work performed within the right of way area of Miramontes Point Road.

- B. Requirements for Work to be Inspected by the CCWD:
1. Notification. The CCWD shall be notified by the Contractor 10 days prior to the proposed start of construction. If construction is not continuous, the CCWD shall be notified at least 48 hours in advance of the resumption of construction.
 2. Observation. The CCWD shall at all times have access to the work, and the Contractor shall furnish every reasonable facility for ascertaining that the materials and workmanship are in accordance with CCWD requirements. All work performed and all materials furnished shall be subject to the CCWD's on-site and off-site observations. The CCWD will observe and inspect facilities solely to protect the interests of the CCWD and to determine whether the completed work is acceptable for incorporation into the CCWD system. The CCWD does not assume thereby any responsibility for the safety practices of the Contractor. The Contractor is responsible for the correct location of all facilities which are installed. All work shall be inspected by the CCWD prior to backfill. Work which has been backfilled prior to inspection by the CCWD shall be uncovered for observation at the expense of the Contractor.

1.05 CHANGES

All work on facilities to be owned by the CCWD shall be performed in conformance with the project documents approved by the CCWD. Changes shall not be made without the written approval of the CCWD.

1.06 REPAIR OF DAMAGES

The Contractor shall repair at his expense any damage to CCWD or other property caused by his work. At the option of the CCWD, repairs to CCWD facilities will be completed by the CCWD with the cost of the repair work being paid by the Contractor.

1.07 SITE CONDITIONS

The CCWD has performed no investigation of subsurface conditions in the work area. The Contractor shall visit the site prior to submitting his bid and shall be responsible for making his own evaluations, inspections and determinations of all site conditions, including subsurface conditions.

1.08 LINES AND GRADES

The Contractor will be solely responsible for all lines and grades. At no cost to the Contractor, the CCWD will field locate all CCWD existing water system facilities based on best available information. However, this CCWD locating assistance is not guaranteed to be either accurate or complete. The Contractor shall uncover all existing facilities by hand excavation (potholing) ahead of his machine excavation work. Where the project drawings indicate the location of water system facilities with respect to property corners or easement boundaries, the Applicant or the Contractor shall retain the services of a licensed land surveyor to field locate each property corner and easement boundary required for installation of the new water system facilities at the proper locations. The Contractor shall provide to the District documentation signed by the surveyor indicating the field survey work performed.

1.09 SALVAGEABLE MATERIALS

Existing CCWD materials removed during the normal prosecution of work deemed salvageable by the CCWD, except as otherwise noted on the project drawing to be reused, shall remain under CCWD ownership and shall be delivered to the CCWD corporation yard by the Contractor.

1.10 PERSONAL LIABILITY

Neither the CCWD, its Engineer, nor any of the CCWD officers or employees shall be personally responsible for any liability arising under or by virtue of the Contractor's work.

1.11 QUALITY ASSURANCE

- A. Performance Test. Prior to project completion, the Contractor shall demonstrate to the CCWD that all water system facilities which will be owned by the CCWD perform in the manner in which they are intended for use.
- B. Leakage Test. All water pipelines, service tubing and piping accessories shall be tested for leakage in conformance with the requirements contained in Part 3 of this document.
- C. Disinfection. All potable water pipelines, service tubing and piping accessories shall be disinfected in conformance with the requirements contained in Part 3 of this document.

1.12 REFERENCES TO STANDARD SPECIFICATIONS AND REGULATIONS

- A. Reference to standard specifications, manuals or codes of any technical society, organization or association, or to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, law or regulation in effect at the time the project documents are prepared (date shown on Specification document).

PART 2 - MATERIALS

2.01 GENERAL REQUIREMENTS

All materials shall be in conformance with CCWD rules and regulations for “approved” materials. All materials shall be new. Manufacturers furnishing pipe, valves, or piping accessories shall have had similar products in successful operation under similar operating conditions for a period of at least 5 years, and shall if requested submit a list of representative installations. This document contains requirements for materials of general use for water pipeline projects; all of the materials specified herein may not be required for this project.

2.02 SHOP DRAWING REQUIREMENTS

- A. Requirements. Shop drawings will be required for all pipe, pipe fitting, valves, meters and other piping appurtenances and materials as specified in Part 3 of these Specifications.
- C. Contractor Verification. Where model, style or types of manufacturer’s products are listed below, they are intended to indicate a standard of quality. The Contractor shall verify that the referenced model, style or type is correct for the actual project application prior to ordering the materials. When listed model numbers are no longer available or are incorrect, the District will provide new model numbers for District-approved materials.

2.03 DUCTILE IRON PIPE (FOR USE WHERE SHOWN ON THE CONTRACT DRAWINGS)

- A. Pipe. Pipe shall normally be ductile iron pipe with push-on joints conforming to ANSI/AWWA Standard C151/A21.54-02., thickness Class 52. Where flanged joint pipe is required it shall conform to ANSI/AWWA Standard C115/A21.15-05, thickness Class 53.
- B. Pipe Joints:
 - 1. Push-On Pipe Joints. Push-on pipe shall normally be utilized for all buried piping except where otherwise indicated on the project drawings or otherwise

required. Push-on joints shall conform to ANSI/AWWA Standard C111/A21.11-07 with restrained type "Field-Lok" gaskets as manufactured by U.S. Pipe and Foundry Co.

2. Flanged Joint Pipe. Flanged joint pipe shall be utilized in buried piping where shown on the Contract Drawings or required. All above grade pipe shall have flanged joints. Flanges shall be in conformance with ANSI/AWWA C115/A21.15-05. Flanges shall be Class 125, B16.1, rated for a service pressure of 250 psi. Bolts and nuts for all flanged joints shall be Type 316 stainless steel.

C. Fittings:

1. Fittings for Push-On Joint Pipe. Fittings shall be ductile iron conforming to ANSI/AWWA Standard C153/A21.53-06. Fittings shall be mechanical joint type as shown on the Contract Drawings. Fittings shall be furnished and installed with joint restraint devices as described below:
 - a. Restraint Device for Mechanical Joint Fittings: Series 1110HD Megalug Retainer Glands as manufactured by EBAA Iron Sales, Inc.
2. Fittings for Flanged Pipe. Fittings shall be ductile iron conforming to ANSI/AWWA C110/A21.10-08. Fittings shall be screw-on type, normally Class 125, B16.1 Type, designed for a service pressure of 250 psi. Bolts and nuts for flanged joints shall be Type 316 stainless steel. Gaskets shall normally be 1/8 inch thick non-asbestos composition type.

D. Exterior Coating. Pipe and fittings shall be furnished with a 1 mil thick asphaltic coating. The finished coating shall be the manufacturer's standard conforming to AWWA requirements.

E. Interior Lining. Pipe and fittings shall be cement lined in conformance with ANSI/AWWA Standard C104/A21.4-08.

F. Polyethylene Encasement. Polyethylene encasement shall be tube type, conforming to ANSI/AWWA Standard C105/A21.5-05. Color may be Class A natural or Class C black.

2.04 POLYVINYL CHLORIDE PIPE (PVC) PIPE (FOR USE WHERE SHOWN ON THE CONTRACT DRAWINGS)

- A. Pipe. Pipe shall conform to AWWA Standard C900-07, pressure Class 200 (DR = 14).
- B. Pipe Joints. Joints shall be bell and spigot type conforming to AWWA Standard C900-07. Gaskets shall be of a type recommended by the pipe manufacturer.
- C. Fittings. Fittings shall be ductile iron conforming to ANSI/AWWA Standard C153/A21.53-06. Fittings shall be mechanical joint type as shown on the

Contract Drawings. Fitting shall be furnished and installed with joint restraint devices as described below:

1. Restraint Device for Mechanical Joint Fittings: Series 2000PV Megalug Retainer Gland as manufactured by EBAA Iron Sales, Inc.

2.05 GATE VALVES

- A. Gate Valves 4 Inches in Diameter and Larger. Gate valves shall be resilient-wedge type conforming to AWWA C509-01 and the following additional requirements. Valves shall be rated at 250 psi working pressure. All body and bonnet bolts, studs, and nuts shall be Type 316 stainless steel. Stem seals shall be O-ring type. Valve operators shall be 2 inch square nut type. Valve end connections shall be normally push-on or mechanical joint type except where flanged end connections are required. The interior and exterior of the valve body shall be coated with 10 mils minimum of epoxy material which conforms to AWWA Standard C550-05. The CCWD-approved valves shall be Mueller Co. A-2360 Series or Clow Corp. Model 2639.
- B. Gate Valves 3 Inches in Diameter and Smaller. Valves shall be rated for 200 psi service, and shall be bronze body, solid wedge disc, non-rising stem, handwheel operated type with screwed end connections.

2.07 TAPPING SLEEVES AND TAPPING VALVES

- A. Tapping Sleeves. The CCWD-approved tapping sleeve is the JCM Model 432 all stainless steel tapping sleeve with Type 316 stainless steel body, bolts and nuts.
- B. Tapping Valves. The CCWD-approved tapping valve is the Mueller tapping gate valve conforming to the specifications requirements for Gate Valves in Paragraph 2.06 above. The valve outlet end connection shall be a mechanical joint type.

2.08 VALVE BOXES AND RISER PIPE

- A. Valve Boxes. Valve boxes shall be Christy Model G-5 with cast iron lids with the work "Water" cast into the lid.
- B. Riser Pipe. Riser pipe for the valve operator shall be 8 inch diameter PVC sewer pipe conforming to ASTM D-3034, SDR 35.

2.09 THRUST RESTRAINT DEVICES

- A. The following thrust restraint devices shall be provided where shown on the project drawings or otherwise required by the CCWD:
 - 1. Thrust Devices for Ductile Iron Pipeline Joints, Fittings and Valves:
 - a. Mechanical Joint Fitting Retainer Glands: Series 1110 HD Megalug Retainer Glands, a product of EBAA Iron Sales, Inc.
 - b. Push-On Pipe Joint Restraint System: "Field-Lok" gasket, a product of U.S. Pipe and Foundry Co.
 - 2. Thrust Devices for PVC Pipeline Fittings and Valves:
 - a. Mechanical Joint Fitting Retainer Glands: Series 2000PV Megalug Retainer Gland as manufactured by EBAA Iron Sales, Inc.

2.12 WATER METERS

- A. Six Inch By 2 Inch Fireline Meter Assembly.
 - 1. Manufacturer: Sensus. No alternatives will be acceptable.
 - 2. General. The assembly shall comply with AWWA Standard C703-96, and the assembly shall also be UL approved. The assembly shall include a 6 inch diameter turbo meter and a strainer to measure high volume water flows and a 2 inch SR displacement type meter to measure water flows within normal usage ranges. Whenever instantaneous high volume flow is required, such as when a fire hydrant is put into service, the assembly shall automatically switch to its higher volume flow path. The high volume flows shall be measured by both meters as the water passes through the assembly. The operating flow range of the assembly shall be from an intermittent high flow of 2,500 gpm to a low flow of 2 gpm, with an accuracy off plus or minus 1.5% of actual flow throughput except at low flow where the accuracy is 95% of actual throughput.
 - 3. High Capacity Turbo Meter. The assembly shall include a 6 inch "W" Series bronze turbo meter which shall be accuracy and pressure tested at the factory. The two basic components of the turbo meter shall be the maincase and a removable measuring chamber. Straightening vanes shall be installed in the maincase to minimize water "swirl" upstream of the meter to direct the flow evenly to the rotor. The meter shall be a magnetic direct type. The only moving part exposed to water shall be the rotor assembly. The meter register shall be calibrated in cubic feet, and it shall be provided with the CCWD's device for automatic meter reading (Badger Meter's Orion system).
 - 4. Strainer. The strainer screen shall be stainless steel, and it shall be designed to prevent debris or objects from entering to clog the pipeline or damage the turbo meter's rotor. The strainer body shall be fabricated of ductile iron, and it shall include a removable cover to provide access to the screen for cleaning or service.
 - 5. Detector Check Valve. The assembly shall include a six inch gravity induced bronze clapper type detector check valve which shall direct any normal flow in the system through the 2 inch diameter type SR meter. When full flow

- capacity is required, the clapper shall open fully allowing unobstructed water flow. The check valve shall be fabricated of cast iron.
6. SR Displacement Type Meter. The assembly shall include a 2 inch Sensus sealed register displacement type meter complying with AWWA Standard C700, latest edition. The meter shall have a bronze body and a magnetic drive. The meter register shall be calibrated in cubic feet, and it shall be provided with the CCWD's device for automatic meter reading (Badger Meter's Orion system)
 7. Bypass Pipeline Accessories. The 2 inch bypass pipeline shall include the following accessories in addition to the SR meter: two lockable ball valves, one check valve, and one union. Bypass pipe and accessories shall be brass or bronze.

2.13 PRECAST CONCRETE METER VAULT

- A. Manufacturer. The vault shall be a product of Utility Vault Corp., Pleasanton, Ca., or approved equal. The manufacturer shall be a member of the National Precast Concrete Association, and shall have a minimum of 5 years experience fabricating vaults of the type specified herein.
- B. Basic Description. The minimum interior dimensions of the vault shall be 5'-6" wide by 7'-6" long by 6'-0" high. The vault shall have an integrally cast concrete floor and 2 top access doors. The project design is based on the Model 687-STD vault of Utility Vault Corp., the manufacturer's drawing for which indicates inside dimensions of 6'-0" wide, by 8'-0" long by 7'0" high (2 vertical sections).
- C. Structural Requirements:
 1. Concrete: 28 day compressive strength = 7,000 psi.
 2. Rebar: ASTM A-615, Grade 60.
 3. Wire mesh: ASTM A-185, Grade 65.
 4. Design: ACI-318-05 Building Code.
 5. Loads:
 - a. AASHTO HS-20 Truck Wheel.
 - b. ASTM C-857 Minimum structural design loading for underground precast concrete utility structures.
 - c. ASTM C-858 Underground Precast Concrete Utility Structures including factor for impact for vault installed at grade (no soil cover).
- D. Access Doors in Vault Cover:
 1. Number of Access Doors: two.
 2. Size: 36" x 36" interior dimensions.
 3. Material: galvanized steel.
 4. Loading: AASHTO H20 Truck Wheel.
 5. Latches: spring-assist type, stainless steel, open 180 degrees toward ends of vault.

- 6. Locking Mechanism. Non-key type, stainless steel.
- D. Knockouts. Provide knockouts for pipeline, size and location as determined by Contractor.
- E. Lifting Hooks. Provide lifting hooks as required for field installation.

2.14 FLEXIBLE COUPLINGS

- A. General. Connection of adjacent sections of either ductile iron pipe or mechanical joint pipe shall normally be made by use of ductile iron mechanical joint sleeves. The flexible couplings specified below shall be utilized only for connecting PVC pipe and if permitted by the CCMHP.
- B. Straight Flexible Couplings. Flexible couplings shall have cast iron bodies and Type 316 stainless steel bolts and nuts. The CCWD-approved flexible coupling is the Smith Blair type 441.

2.15 FLANGED COUPLING ADAPTERS

- A. Flanged coupling adapters shall be epoxy coated Series 2100 megaflange-flange adapters, a product of EBBA Iron Sales, Inc.

2.16 SERVICE SADDLES

- A. Service saddles shall be rated for a working pressure of 200 psi, and shall be bronze double strap type. Outlet shall be either AWWA taper or IPT as required for the pipe to be connected to the saddle. The District-approved service saddle is the Mueller BR2B Series.

2.17 PIPE SUPPORT ASSEMBLIES FOR FIRELINE METER ASSEMBLY

- A. Pipe Supports. Pipe supports shall be Standon Model S89 flanged adjustable pipe supports, fabricated of Type 316 stainless steel.
- B. Extension Pipe. 2 inch diameter Schedule 40 stainless steel pipe.
- C. Anchor Bolts and Nuts. Type 316 stainless steel.

2.18 CONCRETE

- A. Concrete shall contain a minimum 564 pounds of Portland cement per cubic yard. Minimum compressive strength after 28 days shall be 3,500 psi.

2.19 TRENCH BACKFILL MATERIAL AND REPAVING MATERIALS

- A. Right of Way Area of Miramontes Point Road. Conform to the requirements of the City of Half Moon Bay.
- B. Canada Cove Mobile Home Park Property. Materials shall conform to the requirements contained in the current edition of "Standard Specifications" issued by Caltrans (California Department of Transportation), Section 19 including sand for trench bedding and backfill, structure backfill for trench repaving, aggregate base for bedding under the precast concrete vault and for trench backfill where required, and hot mix asphalt for repaving of Canada Cove Avenue.

2.20 WATER

Water shall be potable water unless otherwise permitted by the CCWD, and will be made available to the Contractor by the CCWD from the fire hydrant on Miramontes Point Road. Cost of water shall be paid by the Contractor using a portable meter obtained from the District.

PART 3 - EXECUTION

3.01 SEQUENCE OF UNDERGROUND UTILITY CONSTRUCTION

- A. The work shall be performed in conformance with the following sequence and requirements. This construction sequence description is general in nature, and it is not intended to provide a complete description of the work to be performed.
- B. Submittals: Submittals shall include but not be limited to:
 - 1. Trench Excavation Safety Plan.
 - 2. Construction Schedule.
 - 3. Dust Control Plan.
 - 4. Storm Water Pollution Control Plan.
 - 5. Traffic Control Plan.
 - 6. Copy of Encroachment Permit obtained from City of Half Moon Bay.
 - 7. Shop Drawing Submittal for the Following Items:
 - a. Ductile iron pipe, ductile iron pipe fittings, polyethylene encasement, and Field-Lok gaskets.
 - b. PVC pipe and gaskets.
 - c. Gate valves and tapping gate valves.

- d. All piping appurtenances including flanged coupling adapters, pipe supports, tapping sleeves, valve boxes, mechanical joint fitting retainer glands.
 - e. Six inch by 2 inch Fireline meter assembly.
 - f. Precast concrete meter vault.
- C. Notifications:
- 1. Underground Service Alert. Contact USA to have the location of all existing underground utilities marked in the field.
 - 2. Provide the CCWD a minimum of 10 days notice prior to beginning construction.
- D. Site Meeting. Conduct the preconstruction site meeting described below.
- E. Construction:
- 1. Close the existing gate valve located on the north side of Miramontes Point Road, remove the blind flange from the existing cross identified identified on the Contract Drawings as circled item number No. 4, install the new flanged by mechanical joint gate valve identified on the Contract Drawings as circled item No. 17, and then reopen the gate valve in Miramontes Point Road.
 - 2. Complete the construction of the new pipe work beginning at the gate valve just installed and ending at the two temporary end caps identified on the Contract Drawings as items circled items No. 28. Install temporary asphalt pavement on the trench across Canada Cove Avenue.
 - 3. Leakage Testing:
 - a. Complete leakage testing of the new ductile iron pipeline at a test pressure of 250 psi. The new Fireline meter assembly shall be isolated during the testing using the gate valve on the upstream and downstream sides of it. The meter assembly is not rated for the test pressure of 250 psi!
 - b. Complete leakage testing of the new PVC pipeline at a test pressure of 200 psi.
 - 4. Disinfection. Complete disinfection of the new pipeline systems.
 - 5. Hot Taps. Complete installation of the two tapping sleeves and tapping valves using the "hot-tap" method.
 - 6. Connect each tapping gate valve to the new PVC pipeline using a ductile iron mechanical joint sleeve.
 - 7. Complete permanent asphalt concrete repaving.
 - 8. Complete cleanup and any other remaining work.

3.02 EXISTING UNDERGROUND UTILITIES

- A. Prior to beginning work the Contractor shall notify USA to have the location of all underground utilities marked in the field. Prior to beginning machine excavation

the Contractor shall verify the exact location of each underground utility by hand excavation (potholing).

3.03 SITE MEETING

- A. General. Prior to beginning field work the Contractor shall arrange a preconstruction meeting at the site with District field personnel and Canada Cove Mobile Home Park personnel to review the work requirements.

3.04 TRENCH EXCAVATION, BACKFILL AND REPAVING

- A. Trench Excavation. Trenching for pipe and service tubing shall be in open cut unless otherwise permitted by the District. Existing pavement shall be cut with a pavement saw. Existing vegetation shall be preserved and protected. Tree roots over 2 inches in diameter shall not be cut or otherwise damaged. In unpaved areas topsoil shall be removed, stockpiled, and replaced after completion of trench backfilling. Work shall be performed to minimize disruption of traffic and so as not to obstruct driveways and other access roadways. Excavation shall be to a minimum depth of 4 inches below the pipe grade to accommodate the pipe bedding material. All pipe and service tubing shall be bedded in a 4 inch thick layer of sand.
- B. Trench Backfill:
 - 1. Pipe Zone Backfill. Backfilling work shall not begin until the District has completed its inspection of the piping work. All pipe and service tubing shall be backfilled with sand to a depth of 12 inches over the pipe. The sand shall be compacted to a minimum relative compaction of 95%.
 - 2. Upper Level Backfill:
 - a. Right of Way Area of Miramontes Point Road. Backfilling shall conform to the requirements of the City of Half Moon Bay as shown in the encroachment permit.
 - b. Canada Cove Mobile Home Park Property. Under paved areas, backfill with structure backfill material compacted to a minimum 95% relative compaction. Under unpaved areas backfill with suitable excavated material compacted to a minimum 90% relative compaction.
- C. Temporary Trench Repaving. Immediately following completion of backfill, temporary asphalt pavement shall be installed in all areas where existing pavement has been removed or damaged by the excavation work. Area to receive temporary pavement include streets, driveways, sidewalks, and other similar areas.
- D. Permanent Trench Repaving:
 - 1. Public Right of Way Areas. If repaving is required, conform to the requirements of the City of Half Moon Bay.

2. Canada Cove Mobile Home Park Property. Repave to restore paved area to a condition equal or better than that which existed prior to start of work. Work shall conform to Caltrans requirements as contained in the Standard Specifications document.
3. Steel Traffic Plates. Contractor shall have available in the vicinity of the job site a sufficient number of steel traffic plates to cover 20 linear feet of trench. These plates shall be utilized as required to maintain traffic flow in streets, allow access to driveways and similar private roadways, and for passage of emergency vehicles. Normally all trenches shall be backfilled at the completion of each work day and temporary asphalt concrete paving installed in all areas which had existing pavement including sidewalks.
4. Disposal of Excavated Materials. Excess and unsuitable materials shall be disposed of off the site in conformance with the requirements of regulatory agencies.
5. Curb, Gutter and Sidewalk. All damaged areas shall be replaced with new materials.
 - a. Right of Way Area of Miramontes Point Road. Work shall be performed in conformance with the requirements of the City of Half Moon Bay.
 - b. Canada Cove Mobile Home Park Property. In privately owned areas restoration shall be to a condition equal or better than that which existed prior to start of work.

3.05 PIPING GENERAL REQUIREMENTS

A. Location:

1. Pipelines. Pipelines shall be installed true to line and grade as shown on the Contract Drawings. Buried pipelines shall be installed at a continuously sloping grade between points of given elevation without low or high points. If high points cannot be avoided, an air release valve assembly shall be provided. Location of the pipeline may be modified by the District to clear obstructions. Depth of cover over the pipeline to finish grade shall be as shown on the Contract Drawings or the Typical Trench Section; if not shown, minimum depth of cover shall be 36 inches.
2. Service Connection Tubing. Tubing shall be installed at a continuously sloping grade upward from the connection point with the water pipeline to the water meter box without low or high points. Tubing shall be installed with a minimum depth of cover of 36 inches unless otherwise permitted by the District.

- #### B. Handling.
- Pipe and service tubing shall be handled carefully to prevent damage. Pipe and service tubing shall be plugged at the end of each work day and at other times as required to prevent the entry of water or foreign material.

- C. Trench Conditions. Pipe and service tubing shall have a full, even bearing on the top of the trench bedding material. All piping shall be laid in the dry; the Contractor shall dewater the trench as required. Piping ends shall be clean when joints are made.
- D. Clearance Distances of Water Pipelines from Other Underground Utilities. Water pipelines and service tubing shall be installed with the following minimum clearances from other underground utilities:
1. Electrical Wires or Conduits, Storm Drains, Telephone Conduits, Cable TV Wires or Conduits, and Other Utilities. Minimum horizontal clearance shall be 4 feet; minimum vertical clearance shall be one foot.
 2. Sanitary Sewers Including House Laterals. Minimum horizontal clearance shall be 10 feet; minimum vertical clearance shall be one foot. Water pipelines shall pass over sanitary sewers.
- E. Thrust Restraints. All piping shall be adequately braced against thrust.
1. Ductile Iron Piping. Each ductile iron pipeline joint including fittings and valves shall be restrained using a mechanical device as specified in Part 2 of these Specifications (flange, Field-Lok gasket or mechanical joint retainer gland).
 2. PVC Piping. PVC pipe joints do not require mechanical device type joint restraint. However, each fitting and valve on PVC pipelines shall be restrained using a mechanical joint retainer gland as specified in Part 2 of these specifications.
 3. Concrete Thrust Blocks. Buried pipe shall also be provided with concrete thrust blocks in conformance with the CCWD Standard Installation Details. Concrete thrust blocks are required for restrained joint type pipe fittings.
- F. Connections to Existing Water Pipelines. All connections shall be made by the "hot tap" method which does not require taking the existing pipeline out of service. It shall be the responsibility of the Contractor to verify by actual field measurement all existing site conditions including the size and type of the existing pipeline prior to ordering the tapping sleeve and tapping valve for the hot-tap connection.
- H. Leakage Test. All piping shall be tested for leakage in conformance with the requirements specified for each type of pipe. The Contractor shall provide all materials and labor required for the leakage test including the pump, pressure gauge, corporation stops, and temporary plugs and thrust blocks. The procedure shall be to (1) fill the pipeline with water to the required test pressure, (2) disconnect the test pump hose and wait for the duration of the test period to elapse, (3) reconnect the test pump and measure the volume of water required to re-establish the test pressure. Following completion of the test the Contractor shall dispose of the leakage test water in conformance with NPDES regulations. It shall be the Contractor's responsibility to block off during the testing all piping appurtenances which may be damaged by the test

pressure and to provide suitable thrust restraints. Leakage testing shall be witnessed by the District.

I. Disinfection and Bacteriological Testing:

1. General. All piping systems conveying potable water shall be disinfected. Disinfection shall be in conformance with AWWA Standard C651-05 except as otherwise required by this document. The Contractor shall provide all materials and labor required for the disinfection process and shall dispose of the disinfection solution in conformance with NPDES requirements including dechlorination.
2. Procedure:
 - a. Preliminary Preparation. The system shall be flushed with water to remove dirt introduced into the piping during construction operations. All service outlets and fire hydrants shall be opened and the flushing operations continued until clear water flows from each outlet (Note: flushing shall be deferred until after completion of the disinfection process if tablets have been placed in the pipeline during the construction for disinfection).
 - b. Introduction of Disinfection Agent. The disinfection agent may be any chlorine compound approved by AWWA C651-05. Use of chlorine tablets attached to the pipe will not be permitted on PVC pipe. The disinfection agent shall be injected slowly and continuously into the system until tests indicate a chlorine residual concentration of at least 25 mg/L at each pipeline outlet. All outlets shall then be closed and this condition maintained for 24 hours.
 - c. Preliminary Tests. After 24 hours, tests shall be made for residual chlorine at each pipeline outlet. The minimum acceptable concentration shall be 10 mg/L. If the concentration is less than 10 mg/L, the disinfection procedure shall be repeated. If the concentration at each outlet is over 10 mg/L, the system shall be flushed out until a test at each outlet indicates a chlorine residual of less than 0.5 mg/L.
 - d. Bacteriological Analyses. The CCWD will obtain samples from the piping being disinfected and have bacteriological analyses performed by a State certified laboratory. The number of samples taken shall conform to AWWA C651-05 (unless otherwise permitted by the District) and State Department of Health Services requirements. Costs of bacteriological analyses shall be paid by the Contractor.
 - e. Final Approval. The requirement for final approval is that each water sample analyzed shall be in conformance with State disinfection requirements. If all bacteriological analyses are not in conformance with these requirements the disinfection procedure shall be repeated.
 - f. Disinfection by Spraying or Swabbing. Water piping installations which cannot be disinfected using the procedure described above shall be disinfected by spraying or swabbing the pipeline interior with a minimum 1% chlorine solution immediately prior to installation.

- J. Additional Fittings to be Furnished by Contractor. The Contract Drawings generally indicate locations where fittings will be required for buried piping but do not purport to indicate each and every fitting that will be required or the exact degree of bend that will be required. Additional fittings or fittings with a different degree of bend may be required to suit site conditions such as changes in vertical or horizontal alignment caused by interferences or where required so as not to exceed the maximum pipe joint allowable deflection. The Contractor shall furnish and install all required additional fittings required for proper completion of the work at not additional cost.
- K. Disruption of Water Service to Customers. Any work which will involve disruption of water service to customers must: (1) be completed by the end of the work day it is started in order that customers not be without water service overnight, and (2) be scheduled a minimum of 48 hours before the beginning of the work in order that adequate notice of the water service disruption can be provided to the customers.

3.06 DUCTILE IRON PIPE INSTALLATION

- A. General. Pipe installation shall be in conformance with Sections 1 through 3 of AWWA Standard C600, latest edition, except as otherwise required by this Specification section. Pipe installation shall also be in conformance with the recommendations of the manufacturers of the pipe and fittings.
- B. Handling. Pipe shall be handled using pipe slings. Use of a forklift will not be permitted. Pipe ends shall be kept clean and shall be plugged at the end of each day's work or when pipe is not being laid to prevent the entry of water or foreign material.
- C. Restrained Joints and Concrete Thrust Blocks. All pipe joints shall be restrained using the materials described in Part 2 of this Specification section. In addition, a concrete thrust block shall be provided at each fitting.
- D. Pipe Taps. Pipe taps will be permitted in accordance with the following schedule:

Pipe Tap Schedule

| <u>Pipe Diameter</u> | <u>Maximum Tap Size</u> | |
|----------------------|-------------------------|--------------------|
| | <u>Without Saddle</u> | <u>With Saddle</u> |
| 4" | 3/4" | 2-1/2" |
| 6" | 1-1/4" | 2-1/2" |
| 8" | 1-1/2" | 2-1/2" |
| 10" and larger | 2" | 2-1/2" |

If the piping connection of larger pipes than permitted for taps is required, standard tee fitting shall be utilized. All pipe taps will be inspected and approved by the District.

- E. Maximum Pipe Joint Deflection. Special care shall be taken so as not to exceed the manufacturer's recommendations for joint deflection. For bends exceeding the applicable deflection, fittings shall be installed.
- F. Polyethylene Encasement. All ductile iron piping including pipe, fittings, valves and piping appurtenances shall be polyethylene encased. Installation shall be in conformance with either Methods A or B of AWWA Standard ANSI/AWWA C105/A21.5-05 . The polyethylene encasement shall prevent contact between the piping and the surrounding backfill and bedding material but is not intended to be a completely airtight or watertight enclosure. Overlaps shall be secured by the use of adhesive tape furnished with the polyethylene encasement.
- G. Leakage Test. All ductile iron piping shall be tested for leakage for a duration of 2 hours at a test pressure of 250 psi. Allowable leakage for below grade piping shall not exceed the following:

| <u>Pipe Diameter</u> | <u>Allowable Leakage per 1000 Linear Feet of Pipe During the 2 Hour Test Period</u> |
|----------------------|---|
| 4" | 0.47 gallons |
| 6" | 0.71 gallons |
| 8" | 0.95 gallons |
| 10" | 1.19 gallons |
- H. Thrust Restraints. See Piping General Requirements above for thrust restraint requirements.

3.07 PVC PIPE INSTALLATION

- A. Installation. Installation shall be in conformance with Section 5 of AWWA Standard C605, latest edition, for Underground Installation of Polyvinyl Chloride (PVC) Pressure Pipe and Fittings for Water, except for Section 5.6 Pipe Bending. Pipe bending will not be permitted.
- B. Joints. Jointing shall be in conformance with the pipe manufacturer's installation instructions. Special care shall be taken so as not to exceed the manufacturer's recommendations for joint deflection. The maximum allowable offset for a 20 foot long length of 6 inch diameter pipe is 16 inches. For bends exceeding the allowable offset, fittings shall be installed.
- C. Pipe Taps. All pipe taps shall be made using a service saddle.
- D. Location. Pipelines shall be installed true to line and grade as shown on the Contract Drawings. Buried pipelines shall be installed at a continuously sloping grade between points of given elevation without low or high points. Location of the pipeline may be modified by the Engineer to clear obstructions. Depth of cover over the pipeline to finish grade shall be as

shown on the Contract Drawings or the Typical Trench Section; if not shown, minimum depth of cover shall be 36 inches.

- E. Handling. Pipe shall be handled carefully to prevent damage. In lifting and placing, pipe shall be handled by slings or other supports in such a manner that jarring or dropping are prevented. Pipe shall be kept clean and shall be plugged at the end of each day's work or when pipe is not being laid to prevent the entry of water or foreign material.
- G. Trench Conditions. Each pipe section shall have a full, even bearing for its entire length on the floor of the trench. All pipe shall be laid in the dry; the Contractor shall dewater the trench as required. Pipe ends shall be clean when joints are made.
- H. Fittings, Valves and Other Ferric Piping Appurtenances. All fittings, valves and other ferric piping appurtenances shall be polyethylene encased using the same materials and installation requirements as specified above for ductile iron pipelines.
- I. Leakage Test. PVC pipelines shall be hydrostatically tested for leakage at 200 psi for a 2 hour duration test period. Maximum allowable leakage for 6 inch diameter pipe is 0.50 gallons per 1000 linear feet of pipe.
- J. Thrust Restraints. See General Piping Requirements above for requirements.

3.08 INSTALLATION OF VALVES AND OTHER PIPING ACCESSORIES

- A. Installation of valves and other piping accessories shall be in conformance with the recommendations of the manufacturer of the product and in conformance with the District Standard Installation Details. A valve box shall be provided for each below grade valve. The Contractor shall demonstrate to the satisfaction of the District the proper performance of each piping accessory prior to project acceptance.
- B. Tapping Sleeve and Valve Installation. Installation of tapping sleeves and tapping valves shall be performed only by CCWD-approved contractors. Contractors currently approved by the CCWD for performing hot tap work are DC Tapping Service, T & R Tapping Inc., and West Valley Construction Co.

3.09 6 INCH BY 2 INCH FIRELINE METER ASSEMBLY

- A. General. Installation shall be in conformance with the recommendations of the manufacturer. The assembly shall be carefully lowered into the vault to avoid damage.

- B. Leakage Testing. The assembly shall not be included in the pipeline leakage testing because it is unsuitable for the leakage test pressure. The gate valves upstream and downstream of the meter assembly shall be closed during the leakage testing. However, when the assembly is placed into service any observed leakage in the piping not leakage tested shall be repaired by the Contractor.
- C. Meter Reading Testing. It is the responsibility of the Contractor to furnish each of the meters in the assembly with the CCWD's automatic meter reading device, Badger Meter's Orion system, which is not a Sensus product and will therefore not be furnished with the meters. Following installation, CCWD will test the operation of the meter reading device using their metering reading equipment. It is the responsibility of the Contractor that the meter device perform to the satisfaction of the CCWD.
- D. Pipe Supports. The pipe supports shall be attached to the floor of the precast concrete vault using Type 304 stainless steel expansive anchor bolts and nuts.

3.10 PRECAST CONCRETE METER VAULT

- A. General. The vault shall be installed in conformance with the recommendations of the manufacturer.
- B. Bedding. The vault shall be installed on a minimum 12 inch thickness of aggregate base compacted to minimum 95% relative compaction.
- C. Grade. The vault shall be installed with its top even with existing grade to facilitate vehicle traffic over it.
- D. Waterproofing. All holes for pipe penetrations shall be patched with grout and caulk as required to prevent water entering the vault. The seam between the 2 pieces of the vault shall be similarly patched with grout and caulked as required to prevent to the maximum extent feasible water from entering the vault. No leakage testing of the vault is required.

3.10 AS-BUILT DRAWINGS

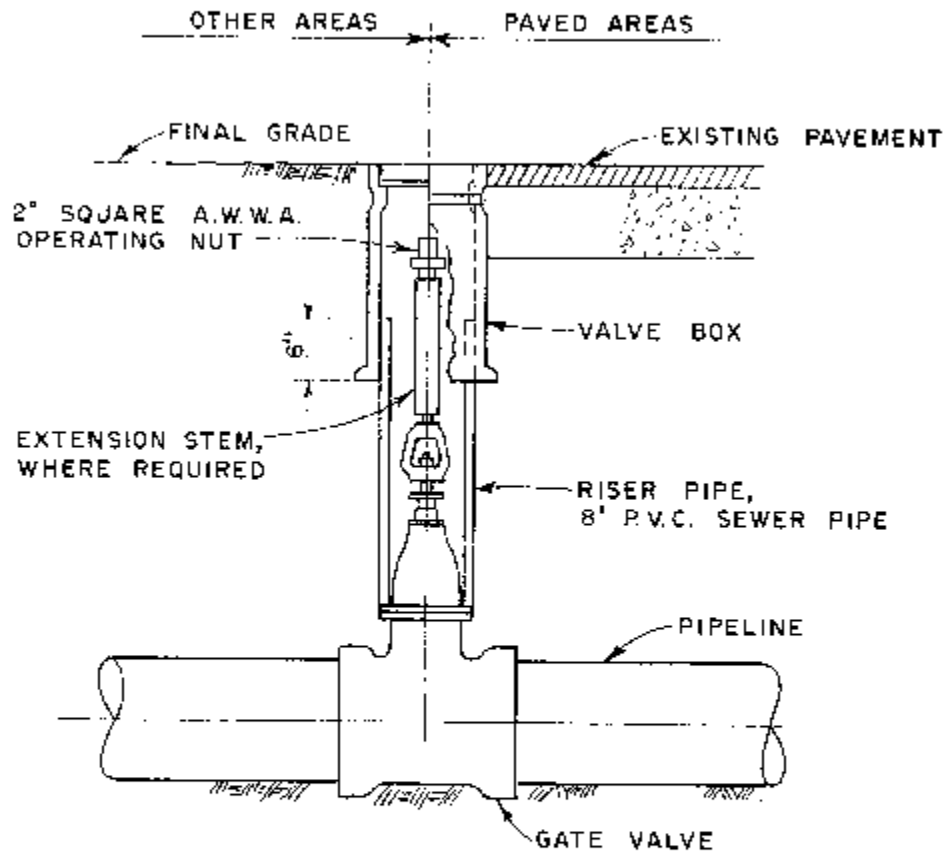
- A. Prior to project acceptance, the Contractor shall provide the District with a set of the project drawings marked for As-Built conditions. The as-built markings shall include the following (1) all changes made to the project drawings during construction, (2) field measurements locating the actual location of the pipeline horizontally from property corners and other surface facilities, (3) horizontal

distance of each valve from a minimum of 2 permanent surface facilities such as utility poles, curb and gutter, etc., (4) depth of cover for the pipeline at all locations, as constructed, and (5) the locations of all underground facilities encountered during construction including horizontal location and depth of cover.

3.11 CCWD STANDARD INSTALLATION DETAILS AND SPECIAL INSTALLATION DETAILS

- A. General. Installation of piping and appurtenances shall be in conformance with CCWD Standard Installation Details and special installation details prepared by the CCWD for the project. These standard installation details and special installation details shall take precedence over the project improvement plans.
- B. Standard Installation Details. The following CCWD Standard Installation Details are incorporated into the project Drawings for use on the Canada Cove Pipeline Extension Project:
 - 1. Gate Valve.
 - 2. Horizontal Thrust Blocks.
- C. Special Installation Details. There are no special installation details known to be required for this project. If required, special installation details will be prepared by the District and provided to the Contractor.

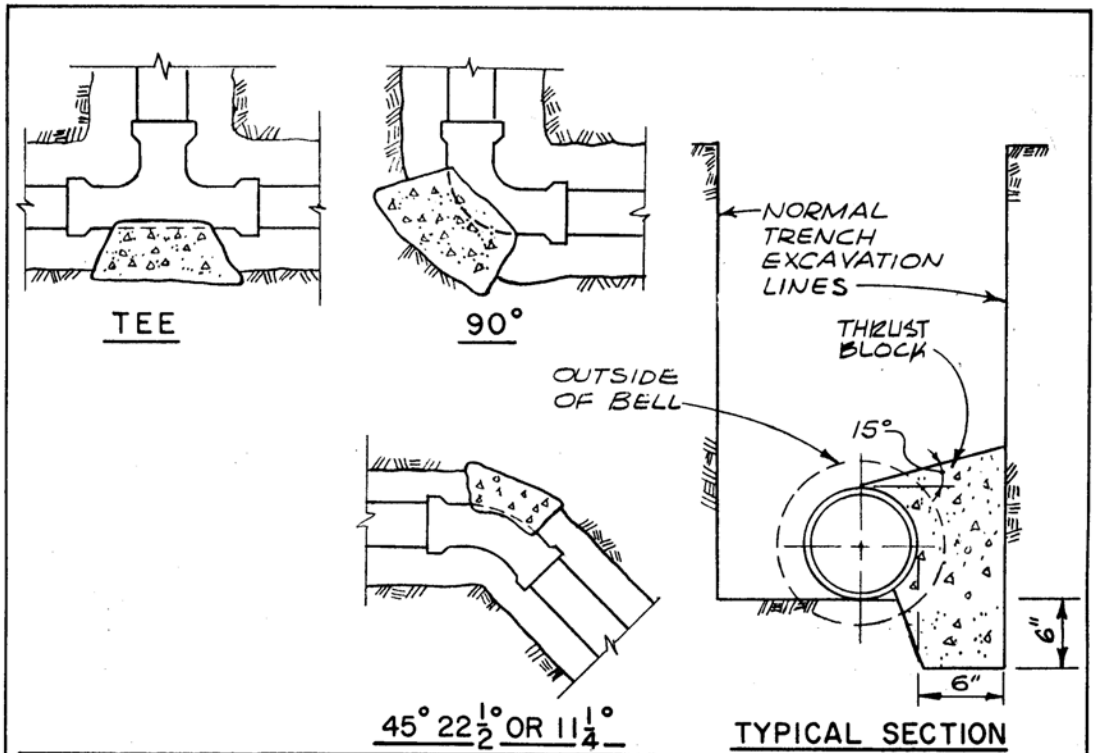
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NOTES:

1. SEE SPECIFICATIONS FOR MATERIAL AND ADDITIONAL INSTALLATION REQUIREMENTS.

| | | |
|---|---------------|--|
| GATE VALVE (ALL VALVES 10" AND SMALLER) | DATE SEPT. 69 | DISTRICT STANDARDS COASTSIDE COUNTY WATER DISTRICT SAN MATEO COUNTY, CALIFORNIA |
| | REV. | |
| | JULY 1974 | |
| | NOV. 1981 | |



MINIMUM REQUIRED BEARING AREA AGAINST UNDISTURBED EARTH WALL

| PIPE SIZE | AREA IN SQUARE FEET AT FITTINGS | | | | |
|-----------|---------------------------------|-----|-----|---------|---------|
| | TEE & CROSS | 90° | 45° | 22 1/2° | 11 1/4° |
| 6 | 3 | 5 | 3 | 2 | 2 |
| 8 | 6 | 8 | 4 | 2 | 2 |
| 10 | 8 | 11 | 6 | 3 | 2 |
| 12 | 11 | 15 | 8 | 4 | 2 |
| 16 | 18 | 25 | 14 | 7 | 4 |

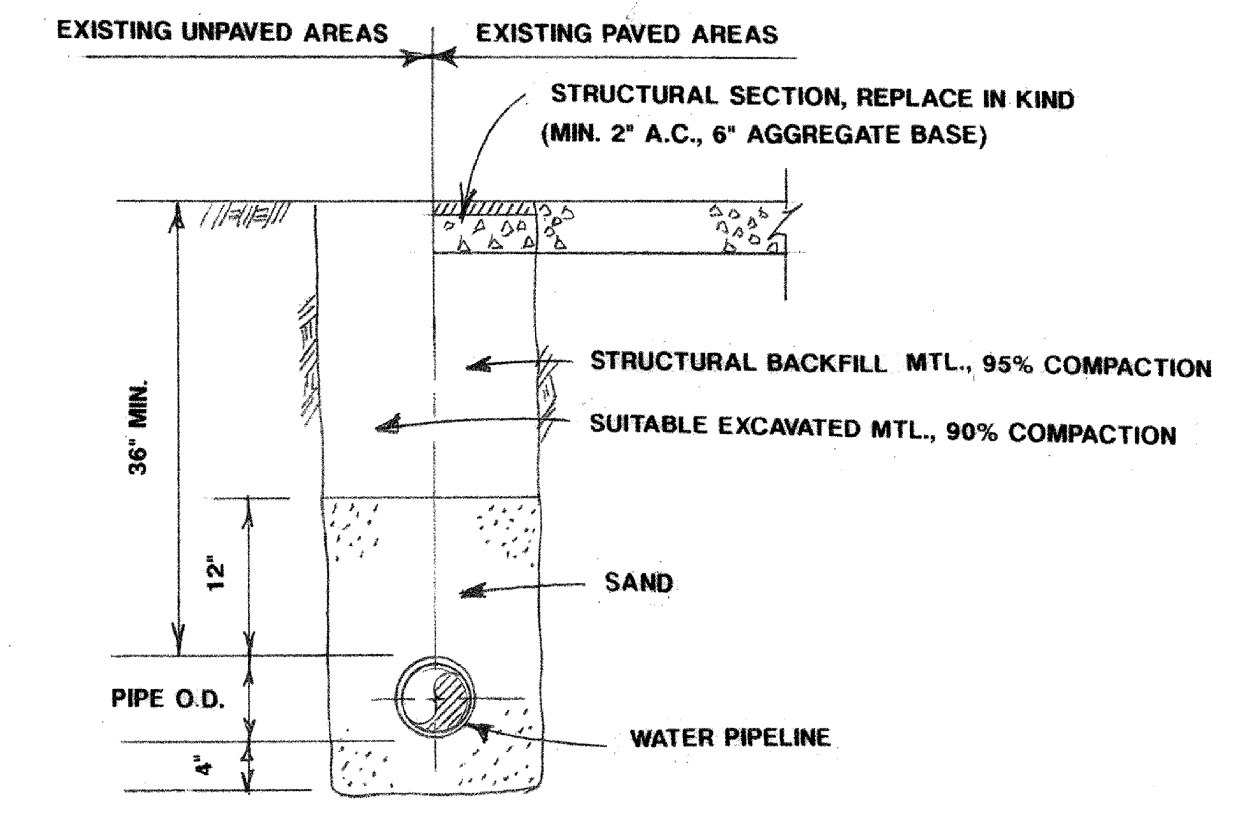
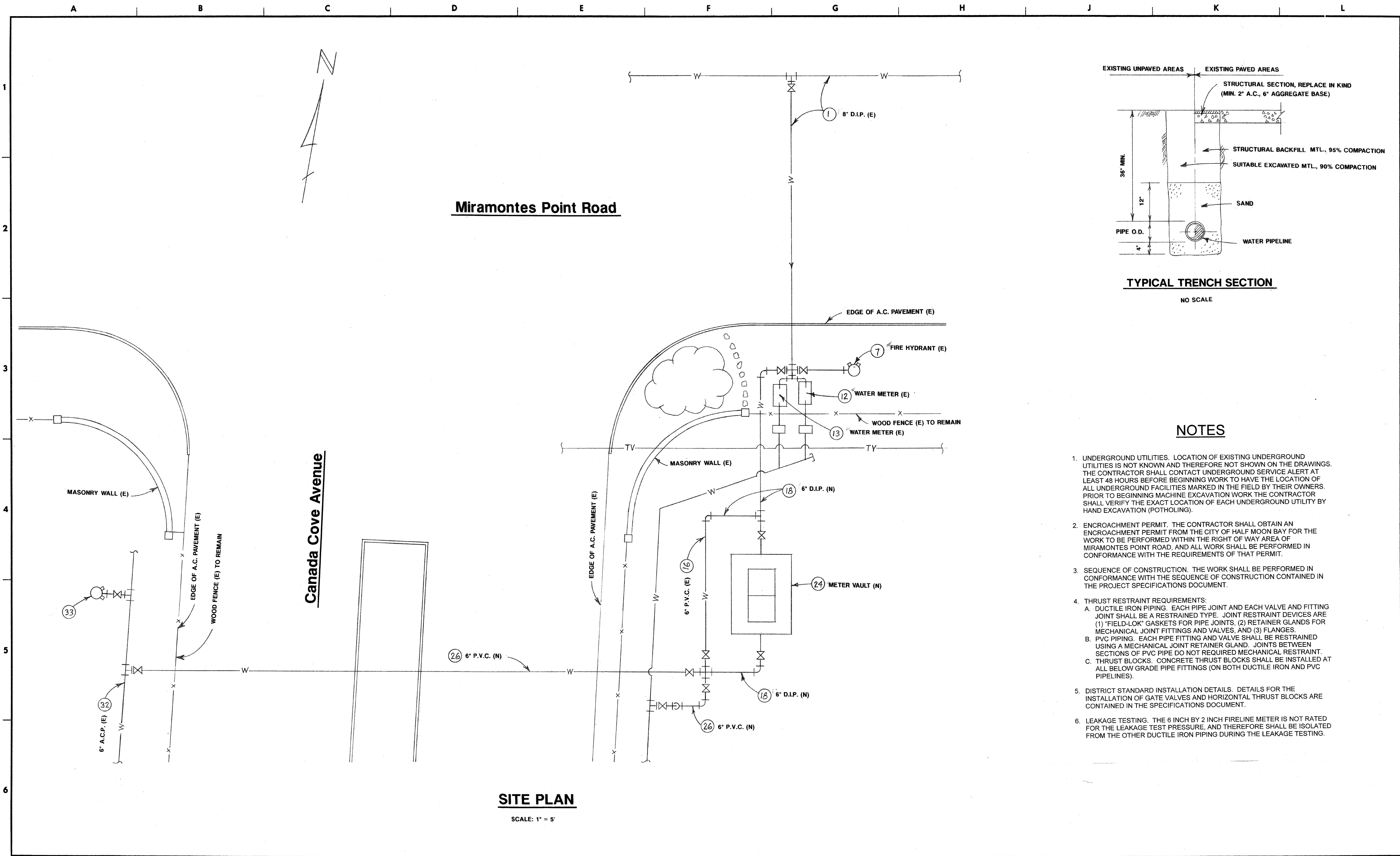
NOTES:

1. THRUST BLOCKS SHALL BE PLAIN CONCRETE POURED AGAINST UNDISTURBED EARTH.
2. CAPS AND PLUGS SHALL HAVE THRUST BLOCKS WITH AREAS AS SPECIFIED FOR TEES. CAPS, PLUGS, FLANGES, AND MECHANICAL JOINTS SHALL BE COVERED WITH 8 MILS OF POLY-ETHYLENE BEFORE THRUST BLOCKS ARE POURED.
3. AREA IS IN A PLANE AT RIGHT ANGLES TO THE LINE OF RESULTANT THRUST.
4. THRUST BLOCKS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING VALUE OF 3000 LB/S.F. AND 200 P.S.I.G. TEST PRESSURE. AREAS SHALL BE INCREASED FOR SOILS WITH LOWER BEARING VALUES OR FOR HIGHER TEST PRESSURE.

HORIZONTAL THRUST BLOCKS

DATE SEPT. 69
REV. APR. 72

DISTRICT STANDARDS
COASTSIDE COUNTY
WATER DISTRICT
SAN MATEO COUNTY, CALIFORNIA



TYPICAL TRENCH SECTION
NO SCALE

NOTES

1. UNDERGROUND UTILITIES. LOCATION OF EXISTING UNDERGROUND UTILITIES IS NOT KNOWN AND THEREFORE NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT LEAST 48 HOURS BEFORE BEGINNING WORK TO HAVE THE LOCATION OF ALL UNDERGROUND FACILITIES MARKED IN THE FIELD BY THEIR OWNERS. PRIOR TO BEGINNING MACHINE EXCAVATION WORK THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EACH UNDERGROUND UTILITY BY HAND EXCAVATION (POTHOLING).
2. ENCROACHMENT PERMIT. THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY OF HALF MOON BAY FOR THE WORK TO BE PERFORMED WITHIN THE RIGHT OF WAY AREA OF MIRAMONTES POINT ROAD, AND ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE REQUIREMENTS OF THAT PERMIT.
3. SEQUENCE OF CONSTRUCTION. THE WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE SEQUENCE OF CONSTRUCTION CONTAINED IN THE PROJECT SPECIFICATIONS DOCUMENT.
4. THRUST RESTRAINT REQUIREMENTS:
 - A. DUCTILE IRON PIPING. EACH PIPE JOINT AND EACH VALVE AND FITTING JOINT SHALL BE A RESTRAINED TYPE. JOINT RESTRAINT DEVICES ARE (1) "FIELD-LOK" GASKETS FOR PIPE JOINTS, (2) RETAINER GLANDS FOR MECHANICAL JOINT FITTINGS AND VALVES, AND (3) FLANGES.
 - B. PVC PIPING. EACH PIPE FITTING AND VALVE SHALL BE RESTRAINED USING A MECHANICAL JOINT RETAINER GLAND. JOINTS BETWEEN SECTIONS OF PVC PIPE DO NOT REQUIRE MECHANICAL RESTRAINT.
 - C. THRUST BLOCKS. CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL BELOW GRADE PIPE FITTINGS (ON BOTH DUCTILE IRON AND PVC PIPELINES).
5. DISTRICT STANDARD INSTALLATION DETAILS. DETAILS FOR THE INSTALLATION OF GATE VALVES AND HORIZONTAL THRUST BLOCKS ARE CONTAINED IN THE SPECIFICATIONS DOCUMENT.
6. LEAKAGE TESTING. THE 6 INCH BY 2 INCH FIRELINE METER IS NOT RATED FOR THE LEAKAGE TEST PRESSURE, AND THEREFORE SHALL BE ISOLATED FROM THE OTHER DUCTILE IRON PIPING DURING THE LEAKAGE TESTING.

SITE PLAN

SCALE: 1" = 5'

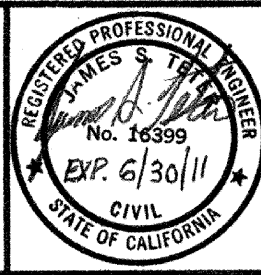
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| REFERENCE INFORMATION AND NOTES | |
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JAMES S. TETER
CONSULTING ENGINEER
SAN RAFAEL, CALIFORNIA

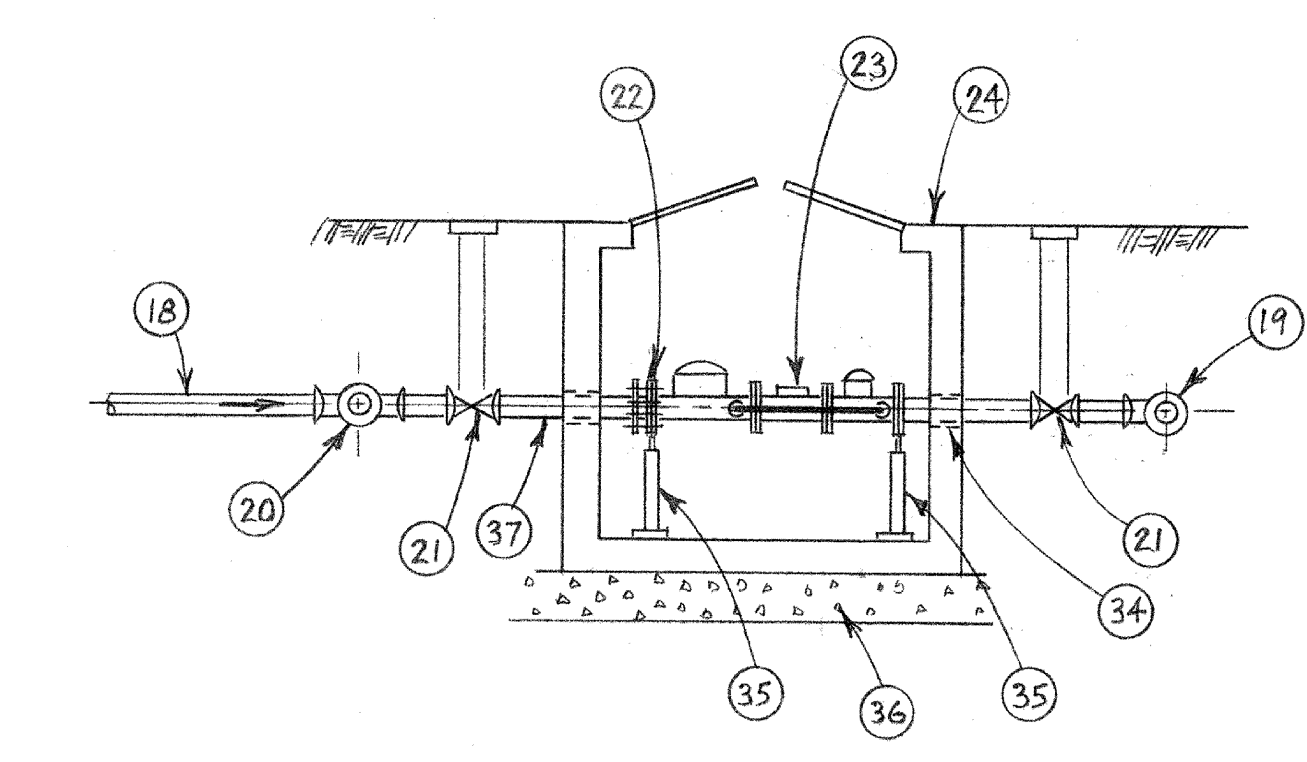
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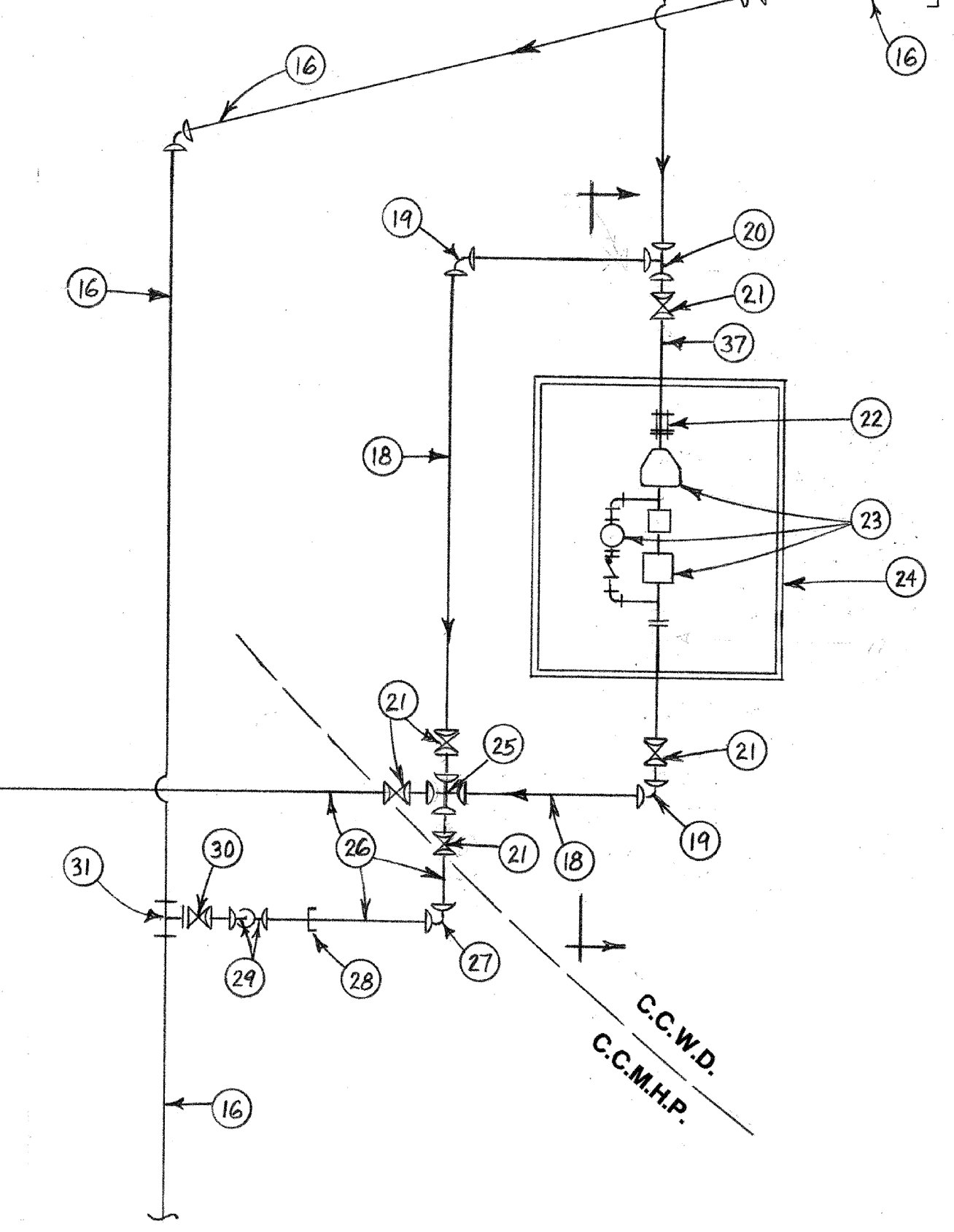
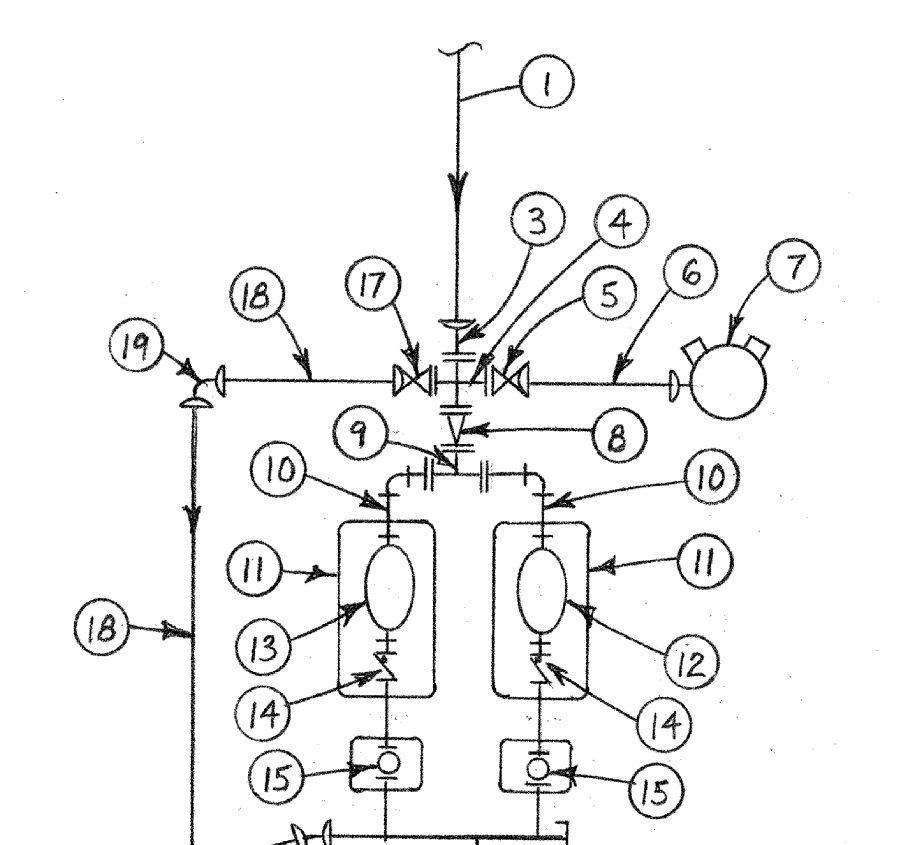
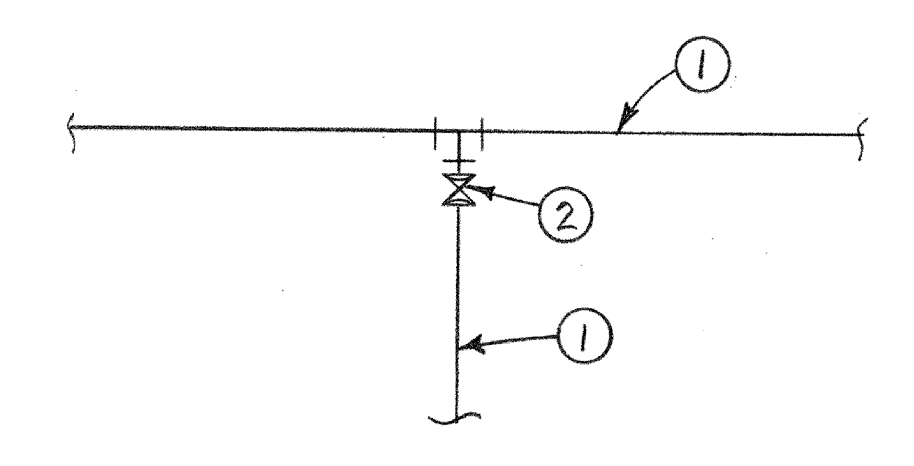
COASTSIDE COUNTY WATER DISTRICT
CANADA COVE PIPELINE EXTENSION PROJECT

SITE PLAN

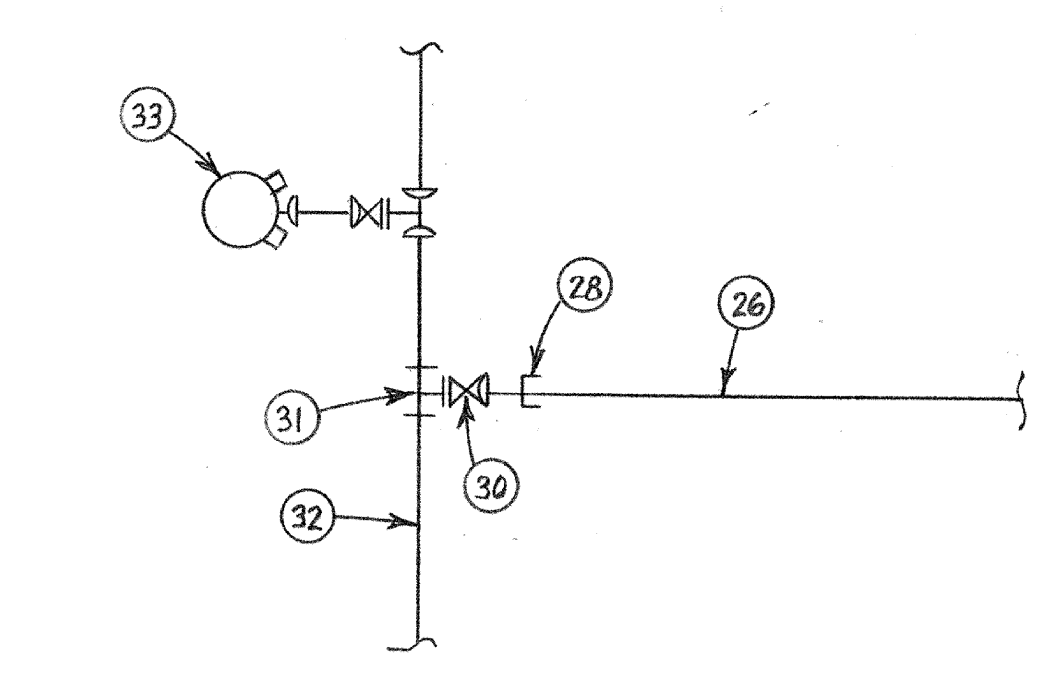
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SECTION THROUGH METER VAULT
SCALE: 1/4" = 1'-0"



PIPING SCHEMATIC DIAGRAM
NO SCALE



DRAWING LEGEND

| CIRCLED NUMBER | ITEM DESCRIPTION AND OWNERSHIP FOR MAINTENANCE AND OPERATION |
|----------------|---|
| 1 | EXISTING 8" DUCTILE IRON PIPELINE (CCWD). |
| 2 | EXISTING 8" GATE VALVE (CCWD). |
| 3 | EXISTING 8" FLANGE BY PUSH-ON ADAPTER (CCWD). |
| 4 | EXISTING 8" X 6" FLANGED CROSS WITH 6" BLIND FLANGE (CCWD). |
| 5 | EXISTING 6" FLANGE BY PUSH-ON GATE VALVE (CCWD). |
| 6 | EXISTING 6" DUCTILE IRON PIPE (CCWD). |
| 7 | EXISTING FIRE HYDRANT (CCWD). |
| 8 | EXISTING 8" X 4" FLANGED REDUCER (CCWD). |
| 9 | EXISTING 4" FLANGED TEE WITH THRUST BLOCK (CCWD). |
| 10 | EXISTING BRASS PIPE FOR WATER METER INSTALLATION (CCWD). |
| 11 | EXISTING WATER METER BOX TO REMAIN (CCWD). |
| 12 | EXISTING 2" WATER METER TO BE REMOVED BY DISTRICT FOLLOWING NEW 6" WATER METER BEING PLACED IN SERVICE (CCWD). |
| 13 | EXISTING 1" WATER METER TO REMAIN IN SERVICE (CCWD). |
| 14 | EXISTING SWING CHECK VALVE TO REMAIN IN SERVICE (CCWD). |
| 15 | EXISTING BALL VALVE IN IRRIGATION VALVE BOX TO REMAIN IN SERVICE (CCMHP). |
| 16 | EXISTING 6" PVC PIPELINE TO REMAIN IN SERVICE (CCMHP). |
| 17 | NEW 6" FLANGE BY MECHANICAL JOINT GATE VALVE. REMOVE EXISTING BLIND FLANGE FROM EXISTING 8" X 6" CROSS (CCWD). |
| 18 | NEW 6" DUCTILE IRON WATER PIPELINE (CCWD). |
| 19 | NEW 6" MECHANICAL JOINT 90 DEGREE ELL (CCWD). |
| 20 | NEW 6" X 6" MECHANICAL JOINT TEE (CCWD). |
| 21 | NEW 6" MECHANICAL JOINT GATE VALVE (CCWD). |
| 22 | NEW E.B.A. FLANGE ADAPTER (CCWD). |
| 23 | NEW SENSUS 6" FIRELINE METER ASSEMBLY. THE ASSEMBLY INCLUDES BOTH A 6" SENSUS TURBO METER FOR HIGH FLOWS AND A 2" SENSUS "SR" METER FOR LOW FLOWS (CCWD). |
| 24 | NEW PRECAST CONCRETE METER VAULT. |
| 25 | NEW 6" X 6" MECHANICAL JOINT CROSS (CCWD). |
| 26 | NEW 6" PVC PIPELINE (CCMHP). |
| 27 | NEW 6" MECHANICAL JOINT 90 DEGREE ELL (CCMHP). |
| 28 | NEW TEMPORARY END CAP FOR LEAKAGE TESTING & DISINFECTION. |
| 29 | NEW 6" MECHANICAL JOINT 45 DEGREE OR 90 DEGREE ELBOW FOR VERTICAL ADJUSTMENT BETWEEN PIPELINES (CCMHP). |
| 30 | NEW 6" FLANGE BY MECHANICAL JOINT TAPPING GATE VALVE (CCMHP). |
| 31 | NEW 6" X 6" TAPPING SLEEVE (CCMHP). |
| 32 | EXISTING ASBESTOS CEMENT PIPE (CCMHP). |
| 33 | EXISTING FIRE HYDRANT (CCMHP). |
| 34 | NEW CONCRETE GROUT TO SEAL PIPE PENETRATION HOLE THROUGH PRECAST VAULT WALL (CCWD). |
| 35 | NEW STANDON MODEL S89 STAINLESS STEEL PIPE SUPPORT (CCWD). |
| 36 | NEW AGGREGATE BASE, MINIMUM THICKNESS 12", COMPACTED TO 95% RELATIVE COMPACTION. |
| 37 | NEW 6" DUCTILE IRON PIPE, MINIMUM 36" LONG (CCWD). |

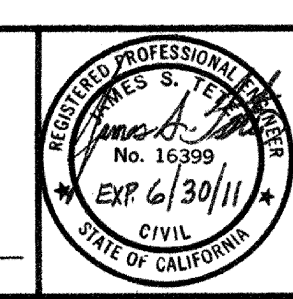
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REFERENCE INFORMATION AND NOTES

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JAMES S. TETER
CONSULTING ENGINEER
SAN RAFAEL, CALIFORNIA

SUBMITTED _____ APPROVED _____



COASTSIDE COUNTY WATER DISTRICT

CANADA COVE PIPELINE EXTENSION PROJECT

PIPING SCHEMATIC DIAGRAM

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David Dickson, General Manager

Agenda: September 8, 2009

Report

Date: August 27, 2009

Subject: Proposition 1A Suspension and Securitization Program

Recommendation:

None. Information only

Background:

On July 28, 2009, Governor Schwarzenegger signed the 2009-2010 California State Budget, which included the suspension of Proposition 1A, authorizing the State to borrow property tax revenue from local agencies. This will represent an eight percent (8%) shift in the District's total property tax revenue apportioned during the 2008-2009 fiscal year. This 8% shift of the property tax is calculated *after* the shift of the Education Revenue Augmentation Fund (EFAF). Because the county controller has some discretion in allocating the reduction among county agencies receiving tax share, we do not know what the impact on the District would be. The FY09-10 budget assumed that the District's tax share would be reduced by \$300,000 from the \$600,000 budgeted in FY08-09.

Understanding the options, planning ahead, and being prepared to make a decision by the end of October 2009, are all key elements the District faces in surviving this temporary suspension of fiscal year revenue.

With the suspension of Proposition 1A (AB x4 14), a new bill (AB x4 15) was passed that provides directions for the calculation of a "loan", consisting of the 8% shift in the total 2008-2009 property tax revenue, and the constitutionally-required repayment provisions, as well as provisions authorizing the securitization of the state's repayment.

County auditor-controllers have the responsibility of automatically reducing the property tax revenues and transferring the loan amount in two equal shares, at the same time as regular property tax allocations (no later than January 15, 2010 and May 1, 2010). Then, as required by the constitution, the State must repay the money to local agencies within three years, with interest. The interest rate will be determined by the Director of Finance, at a rate no less than the current

Pooled Money Investment rate and capped at 6%. This interest rate must be established by September 28, 2009.

In order to offset the fiscal impact of this shift, Coastside County Water District (CCWD) has the option to receive the monies being borrowed by the State upfront through a securitization financing program, administered by "California Communities", a joint powers authority sponsored by the League of California Cities and California State Association of Counties. This program would allow the District to "sell" our Proposition 1A receivables to California Communities, which in turn will issue bonds and remit the cash proceeds to CCWD, at no cost to the District. Should the District decide to participate in this program, a Resolution will need to be adopted by the Board by the end of October 2009, authorizing the sale of the Proposition 1A receivables to California Communities. The application to participate in this program must be completed and submitted to California Communities by November 6, 2009.

California Communities is the only agency offering a pooled Proposition 1A securitization program, and is the only statutorily-authorized option that allows local agencies to securitize and have bond issuance and interest costs paid by the State. California Communities conducted a similar program in 2005 for local agencies when the State borrowed Vehicle License Fee revenues from cities and counties. At that time, California Communities securitized \$455 million in payments due from the State to provide advance repayment to 146 participating cities and counties.

The attached Frequently Asked Questions document provides additional information on the Proposition 1A securitization process.

If CCWD chooses to sustain the 8% property tax shift this year and chooses not to participate in this securitization financing program, the District can expect to be repaid, with interest, directly from the State by June 30, 2013.

Staff has registered for a webinar on the securitization process to be provided on September 10 by California Communities. We will bring further information to the Board on the process, along with Board actions required to participate, at the October 13 meeting.



PROPOSITION 1A SECURITIZATION FREQUENTLY ASKED QUESTIONS

What is Proposition 1A Securitization?

On July 28, 2009, the California legislature and Governor Arnold Schwarzenegger passed the state budget and approved a provision allowing the state to borrow eight percent of the amount of property tax revenue apportioned to cities, counties and special districts. Under the provision, the state will be required to repay those obligations by June 30, 2013.

The provision also created an option for California local public agencies to relieve the burden of loaning the state property tax revenues. The provision, called Proposition 1A Securitization, authorizes the California Statewide Communities Development Authority (California Communities) to purchase the receivable due to local agencies from the State.

How does Proposition 1A Securitization work?

The legislation for the Proposition 1A Securitization authorizes cities, counties and special districts to sell their state repayment obligations to California Communities. In a simultaneous transaction, California Communities will issue bonds and remit the cash proceeds to the participating local public agencies. Bondholders will receive their repayment from the state at a later date. The legislation requires that local agencies participating in the securitization program will receive 100% of their respective Prop 1A receivables.

How much does it cost a public agency to participate in Proposition 1A Securitization Program?

There is no cost to participate in Proposition 1A Securitization Program. All interest costs and costs of the securitization will be paid by the state.

When can my agency expect to receive payment?

Depending upon cleanup legislation expected in the California legislature, California Communities is targeting completion of the securitization transaction for November or early December, 2009, which would result in payment to participating local public agencies prior to transfer of the first installment of property taxes. Should the legislature not pass the anticipated legislative amendments, however, California Communities' next opportunity to securitize will likely be March, 2010.

Is participation in Proposition 1A Securitization Program voluntary?

Yes. The Proposition 1A Securitization provision creates the option for cities, counties and special districts to receive early payment on their obligations from the state. No public agency is required to securitize.

What are our options if we decide not to participate in Proposition 1A Securitization Program?

Public agencies that do not participate in Proposition 1A Securitization Program can expect to receive repayment plus interest from the state for its obligations by June 30, 2013. The interest rate to be paid by the state to local public agencies will be set by the State of California Director of Finance on or before September 28, 2009. That amount must be higher than the current Pooled Money Investment Account rate, but no higher than 6%.

Has California Communities conducted a program like this before?

Yes. In 2005, California Communities conducted a similar bond securitization program for local agencies when the state borrowed Vehicle License Fee (VLF) revenues from cities and counties. California Communities securitized \$455 million in VLF payments due from the state to provide advance repayment to 146 participating cities and counties.

How is Prop 1A Securitization different from the VLF financing that California Communities conducted?

Under the VLF financing program in 2005, local agencies in California were required to cover the costs of issuance and pay the interest cost. As a result, local agencies only received about 93 cents on the dollar from their loans to the state. Under the proposed Proposition 1A Securitization program, the state will pay for the borrowing interest incurred and the costs of issuance required for each agency to participate. The legislation requires that local agencies participating in the securitization program will receive 100% of their respective Prop 1A receivables.

Do I need to become a member of California Communities to participate in Proposition 1A Securitization?

No, public agencies are free to participate in the program without becoming members of California Communities.

Does a public agency incur any liability by participating in Proposition 1A Securitization?

No. The bonds issued by California Communities are not obligations of any of the local agency program participants.. The California Communities joint powers agreement expressly provides that California Communities is an entity separate and apart from the participating public agencies, and "its debts, liabilities and obligations do not constitute debts, liabilities or obligations of any party to the joint powers agreement." Participating public agencies are not responsible for any repayment of debt, nor are they named in any of the bond documents.

What is California Communities?

The California Statewide Communities Development Authority, known as CSCDA or California Communities, is a joint powers authority sponsored by the League of California Cities and the California State Association of Counties.

California Communities was created by the California State Association of Counties and the League of California Cities in 1988 to enable local government and eligible private entities access to low-cost, tax-exempt financing for

projects that provide a tangible public benefit, contribute to social and economic growth and improve the overall quality of life in local communities throughout California.

Who are the Commissioners of California Communities?

The Commission is made up of local government representatives appointed by elected officials through the California State Association of Counties and the League of California Cities executive committees.

How much public benefit financing has California Communities issued on behalf of its Program Participants?

California Communities has issued more than \$40.2 billion through 1,212 financings since 1988 and consistently ranks in the top 10 of more than 3,000 nationwide public issuers of tax-exempt debt, as measured by annual issuance amount.

Previous public benefit projects have included financing more than \$700 million in public infrastructure projects, \$122 million in lease obligations for local governments to acquire equipment, vehicles, and computer technology among other needs, and \$397 million of pension obligation bonds to provide an alternative finance mechanism for unfunded liabilities.

###

STAFF REPORT

To: Coastside County Water District Board of Directors
From: David Dickson, General Manager
Agenda: September 8, 2009

Report

Date: August 25, 2009

Subject: Association of California Water Agencies (ACWA) Region 5
Election for the 2010-2011 Term

Recommendation:

Direct staff regarding Coastside County Water District's vote for the Association of California Water Agencies (ACWA) Region 5 Board for the 2010-2011 Term.

Background:

At the July 14, 2009 CCWD Board meeting, the Board adopted a Resolution placing the name of Vice-President Bob Feldman in nomination for the position of an ACWA Region 5 Board Member.

Attached is the ACWA Region 5 Board Ballot, and as you can see, Bob Feldman is listed as a member of the Region 5 Nominating Committee's Recommended Slate. CCWD is entitled to cast one vote for each of the Region 5 positions and may either select the Nominating Committee's recommendations or vote for each of the individual Board candidate nominations.

Upon the Board's selections, staff will complete the ballot and return to ACWA by the September 30, 2009 deadline.

Region 5 Board Ballot

2010-2011 TERM



**Association
of California
Water Agencies**
Since 1910
Leadership
Advocacy
Information

**Please return completed ballot
by September 30, 2009**

E-mail: katied@acwa.com
Fax: 916-561-7124
Mail: ACWA
910 K Street, Suite 100
Sacramento, CA 95814

General Voting Instructions:

1. Please complete your agency information. The authorized representative is determined by your agency in accordance with your agency's policies and procedures. Region 5 Rules and Regulations "require the Board President's signature for approval."
2. You may either vote for the slate recommended by the Region 5 Nominating Committee or vote for individual region board members. Please mark the appropriate box to indicate your decision.

Region 5 Nominating Committee's Recommended Slate

- I concur with the Region 5 Nominating Committee's recommended slate below.

Chair:

David Hodgins, Scotts Valley Water District

Vice Chair:

Katy Foulkes, East Bay Municipal Water District

Board Members:

Bob Feldman, Coastside County Water District
Dan Naumann, United Water Conservation District
Bob Ptacek, Montara Water & Sanitary District
Dick Quigley, Zone 7 Water Agency
John Weed, Alameda County Water District

Region 5 Individual Board Candidate Nominations

- I do not concur with the Region 5 Nominating Committee's recommended slate. I will vote for individual candidates below as indicated.

Candidates for Chair: (Choose one)

- David Hodgins, Scotts Valley Water District
 John Weed, Alameda County Water District

Candidates for Vice Chair: (Choose one)

- Katy Foulkes, East Bay Municipal Water District
 David Hodgins, Scotts Valley Water District
 John Weed, Alameda County Water District

Candidates for Board Members: (Max of 5 choices)

- Bob Feldman, Coastside County Water District
 Katy Foulkes, East Bay Municipal Water District
 Judith Lehman, Monterey Peninsula Water Management District
 Dan Naumann, United Water Conservation District
 Bob Ptacek, Montara Water & Sanitary District
 Dick Quigley, Zone 7 Water Agency
 John Weed, Alameda County Water District

AGENCY NAME

AUTHORIZED REPRESENTATIVE

BOARD PRESIDENT SIGNATURE

DATE

STAFF REPORT

To: Coastside County Water District Board of Directors
From: David Dickson, General Manager
Agenda: September 8, 2009

Report

Date: September 3, 2009

Subject: Bartle Wells Financing Plan Final Report

Recommendation:

None. Information only.

Background:

The attached Bartle Wells Associates Water Financing Plan Final Report is presented for the Board's information. Bartle Wells reviewed their analysis and recommendations with the Board in a presentation at the Financing the District Strategic Planning Workshop held on February 26, 2009. Since that time, they have updated the report to reflect the approved FY 09-10 budget and CIP and have augmented recommendations related to reserves. Bartle Wells and District staff reviewed the final report and its recommendations with the Board's Finance Committee on July 29, 2009.

At coming Board meetings in October and November, staff will discuss the report's recommendations further and present for the Board's consideration the decisions necessary to implement its key recommendations, including changing District reserve policies and taking the next steps toward issuing debt to fund the District's capital program.



COASTSIDE COUNTY WATER DISTRICT

WATER FINANCING PLAN

AUGUST 2009



BARTLE WELLS ASSOCIATES
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1 BACKGROUND AND OVERVIEW

1.1 Background

In October 2008, the Coastside County Water District (CCWD or the District) retained Bartle Wells Associates (BWA) to review and evaluate the District's water rates and finances. Prior to this study, the District's last rate study was completed in 2005. Key objectives of the study include:

- Provide independent analysis of the District's water rates and finances
- Develop 10-year financial projections incorporating long-term operating and capital funding needs
- Project future water rate increases that reflect the District's cost of providing service
- Evaluate various financing alternatives to fund capital projects in the future
- Phase in rate increases and/or rate structure modifications over time, to the extent possible, to help minimize the annual impact on ratepayers
- Recommend a minimum fund reserve target

This report presents the key findings and recommendations of the study. The recommendations and alternatives presented were developed with substantial input from the District.

1.2 Overview of District

Coastside County Water District is a special district providing water services in the City of Half Moon Bay and parts of the unincorporated areas of San Mateo County including Miramar, Princeton by the Sea, and El Granada. The District serves more than 6,000 customers, who are predominantly residential.

The District's water supply comes from three sources: local groundwater, local surface water, and surface water supplied from the San Francisco Public Utilities Commission's Hetch Hetchy water system. Around 80% has been supplied through the SFPUC system.

The District's operating revenue for the year ended June 30, 2009 was approximately \$5.3 million and non-operating revenue was approximately \$1.2 million. About 51% of the non-operating revenues were the District's share of the County's general property taxes. Operating expenses (including depreciation) for the year ended June 30, 2009 are estimated to be roughly \$5.1 million.

The District's current bi-monthly water rate structure is comprised of a base charge and a quantity charge. The base charge is the minimum charge paid by all customers and varies by size of meter serving the customer. The quantity charge applies to the quantity of water delivered to the customer. For residential customers there are four rate tiers. For non-residential customers there is one uniform rate. Table 1 shows the rates for FY 2008/09 and proposed rates for FY 2009/10.

| Table 1. Water Rate Schedule - Bi-Monthly | | |
|--|----------------|----------------|
| | 2008/09 | 2009/10 |
| Base Charge (by meter size) | | |
| 5/8" | \$21.87 | \$24.06 |
| 5/8" for 2 dwelling units | \$48.11 | \$52.92 |
| 3/4" | \$32.88 | \$36.17 |
| 3/4" for 2 dwelling units | \$65.80 | \$72.38 |
| 1" | \$54.80 | \$60.28 |
| 1-1/2" | \$105.83 | \$116.41 |
| 2" | \$175.40 | \$192.94 |
| 3" | \$383.70 | \$422.07 |
| 4" | \$1,315.71 | \$1,447.28 |
| Variable Charge (1) | | |
| <u>Residential</u> | | |
| 0 - 8 hcf | \$3.57 | \$3.93 |
| 9 - 25 hcf | \$3.94 | \$4.33 |
| 26 - 40 hcf | \$5.12 | \$5.63 |
| 41 & over hcf | \$6.33 | \$6.96 |
| <u>Non-Residential</u> | | |
| Per hcf | \$4.86 | \$5.35 |
| (1) 1 unit = 1 hcf = 7.48 gallons | | |

Overall, Coastside County Water District is in good financial condition. The enterprise maintains an adequate healthy level of reserves. As of May 31, 2009, the District had about \$6.5 million in fund reserves. This equates to roughly one year of current combined annual operating, maintenance, and debt service costs.

The District has increased water rates annually for the past ten years. Rate increases are necessary to fund rising operating costs including increased wholesale water costs from the San Francisco Public Utilities Commission (SFPUC) and to finance capital improvement projects. The District implemented a 10% rate increase on July 15, 2009.

1.3 Current Outstanding Debt

Since 1998, the District has issued approximately \$10 million in long-term debt secured by water revenue. The District's two outstanding debt issuances include: 1) Series 1998A Association of Bay Area Governments (ABAG) Water and Wastewater Revenue Refunding Bonds for \$2,855,000 and 2) Series 2006B California Statewide Communities Development Authority (CSCDA) Water Revenue Bonds for \$7,295,000. A portion of the 1998A Bonds were used to advance refunds the outstanding balance of the Series 1993A Water Revenue Refunding Bonds which was paid off on June 30, 2004. The 1998A Bonds bear interest at 3.50% to 4.75% with the final installment due on October 1, 2013. The 2006B Bonds bear interest at 3.75% to 5.3% with the final installment due on October 1, 2032.

As of June 20, 2009, outstanding principal for all obligations totaled \$7,760,000. Annual debt service for the next five years is about \$750,000. Based on the FY 2009/10 budget, debt service currently accounts for about 11% of combined operating and debt expenses.

1.4 Debt Covenants and Debt Service Coverage

Pursuant to the legal agreements securing the outstanding debt issues, the District has agreed to abide by a number of debt covenants designed to ensure adequate repayment security. Key among these is a debt service coverage covenant that requires the District to maintain and raise water rates as needed to achieve 120% coverage on annual debt service. Debt service coverage is calculated based on net revenues (total annual revenues less annual operating and maintenance costs) divided by the District's total annual debt service obligation. This is a standard legal covenant for securing water revenues bonds or COPs. In FY 2008/09, the District was in compliance with the required 120% coverage.

1.5 Reserve Accounts

The District maintains a number of reserve funds. Some funds are designated and/or restricted for specific purposes; others are undesignated and can be used for any District purposes. Unrestricted reserve funds include the Cash Flow and Operating Reserve, Emergency and Contingency Reserve, and Capital Expenditures Reserve. As of May 31, 2009 the District had approximately \$6.5 million in reserves as shown in Table 2.

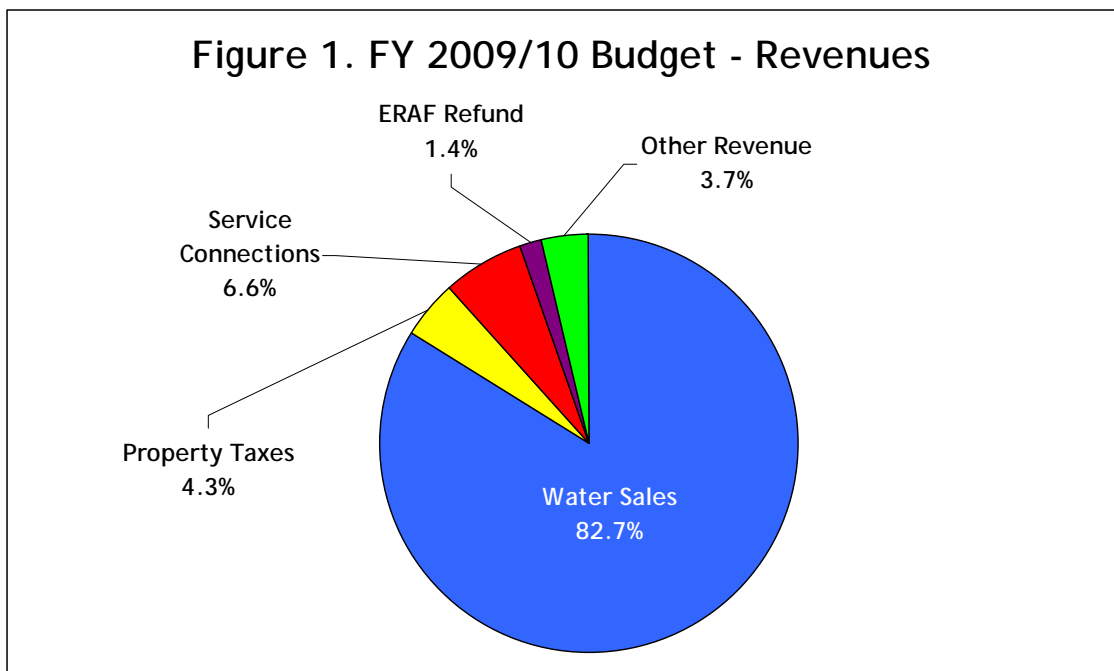
| Table 2. Reserve Fund Balances | |
|--|--------------------|
| Reserve Fund | 31-May-09 |
| Cash Flow and Operating Reserve | \$300,030 |
| Emergency Reserves | \$1,699,005 |
| Capital Expenditures | <u>\$4,460,885</u> |
| Total Fund Balances | 6,459,920 |
| Source: CCWD Investment Report, May 31, 2009 | |

2 FY 2009/10 BUDGET

2.1 Sources of Revenue

The FY 2009/10 budget (shown in Appendix A) estimates that the District will earn roughly \$7.0 million in total annual revenue, an approximately 2% decrease from the FY 2008/09 budget. Revenue from water sales is estimated at \$5.8 million, comprising 83% of total revenues. Due to conservation efforts, the District anticipates that customers will continue to consume less water, therefore resulting in decreased water sales revenue.

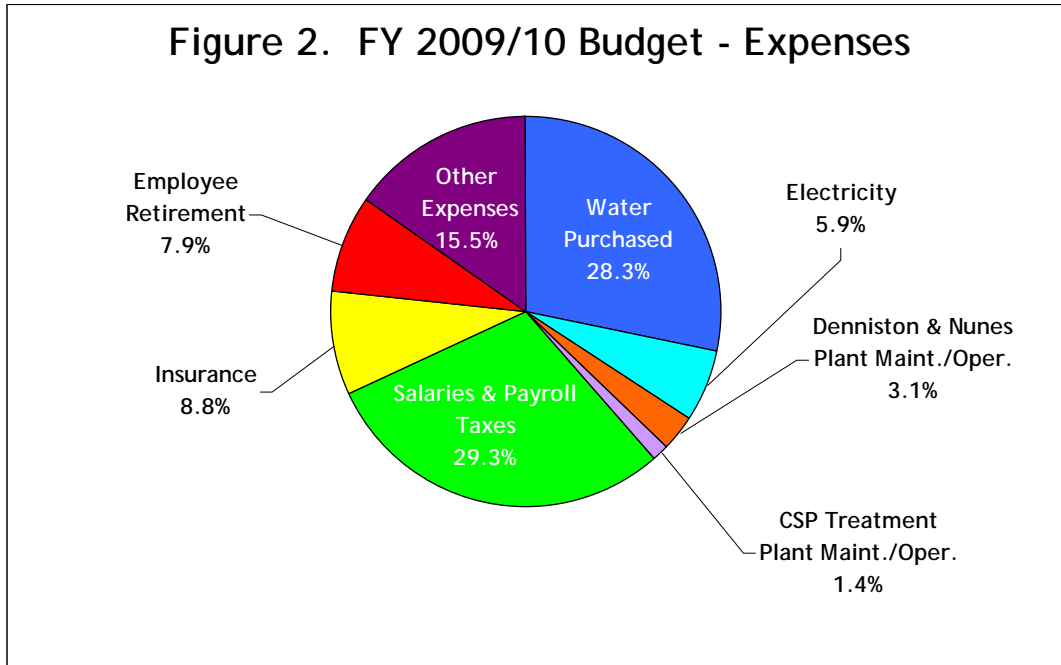
Service connection revenues are projected at \$458,000, 7% of total revenues. The District anticipates a decrease in revenue from property taxes in the next year. Property taxes are estimated at \$300,000 and an ERAF refund is projected at \$100,000 which combined account for approximately 6% of all earnings. Other revenues include hydrant sales, penalty charges, earned interest, cell phone lease income, and miscellaneous revenue totaling around \$259,000, representing 4% of the District's total revenues. A breakdown of the revenues is shown in Figure 1.



2.2 Operating Expenses

Total operating expenses for the FY 2009/10 budget are approximately \$5.7 million. The largest expense is salaries and payroll taxes totaling \$1.7 million, representing about 29% of the total budget. Estimated at \$1.6 million, wholesale water purchases from the SFPUC account for 28% of total expenditures. For FY 2009/10, wholesale water rates increased by 16%. Figure 2 shows a summary of the District's operating expenses for FY 2009/10 budget.

Figure 2. FY 2009/10 Budget - Expenses



2.3 Capital Accounts

The FY 2009/10 budget has approximately \$1.4 million for capital accounts which includes debt service as detailed in Section 1.2 and a contribution to the operating and capital improvement program (CIP) reserve. Total debt service for FY 2009/10 is \$757,246. The contribution to the CIP reserve is \$517,457 and will be used to fund capital projects as well as ongoing repairs and replacements.

2.4 FY 2009/10 Rate Increase

In approving the FY 2009/10 budget, the District increased water rates by 10%. Proposition 218 notices detailing the rate increases were mailed to all property owners on May 22, 2009, and a public hearing was held on July 14, 2009. The approved rates became effective on July 15, 2009.

3 FUTURE OPERATING EXPENSES

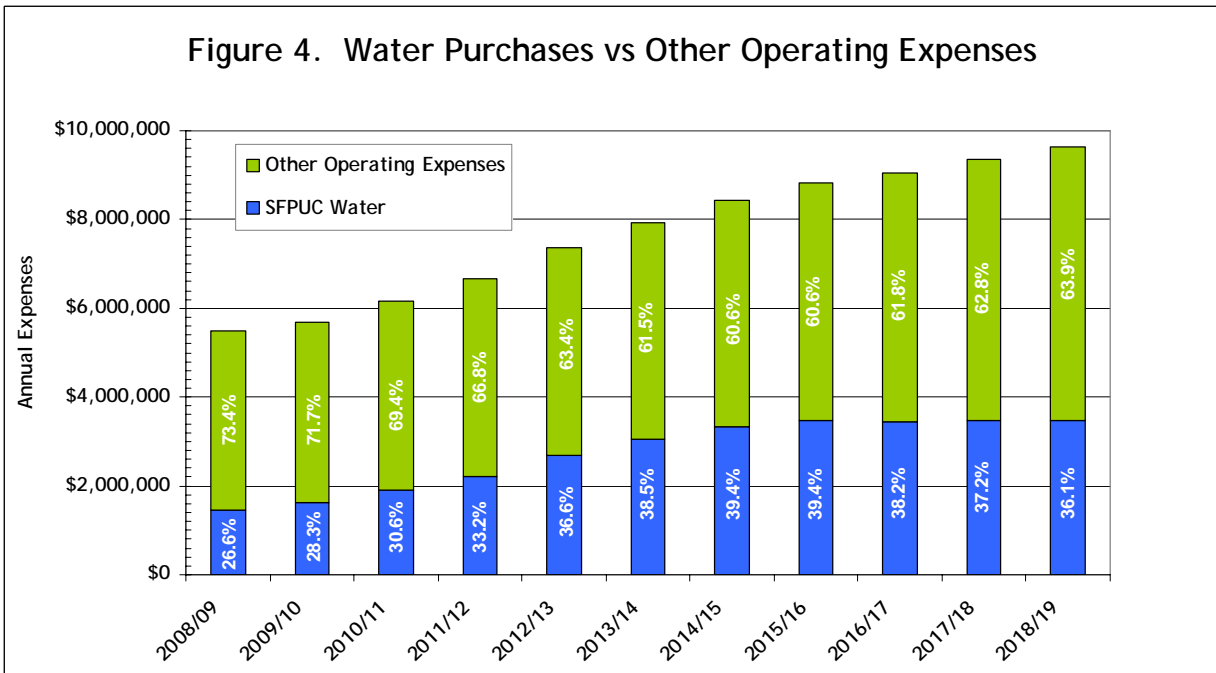
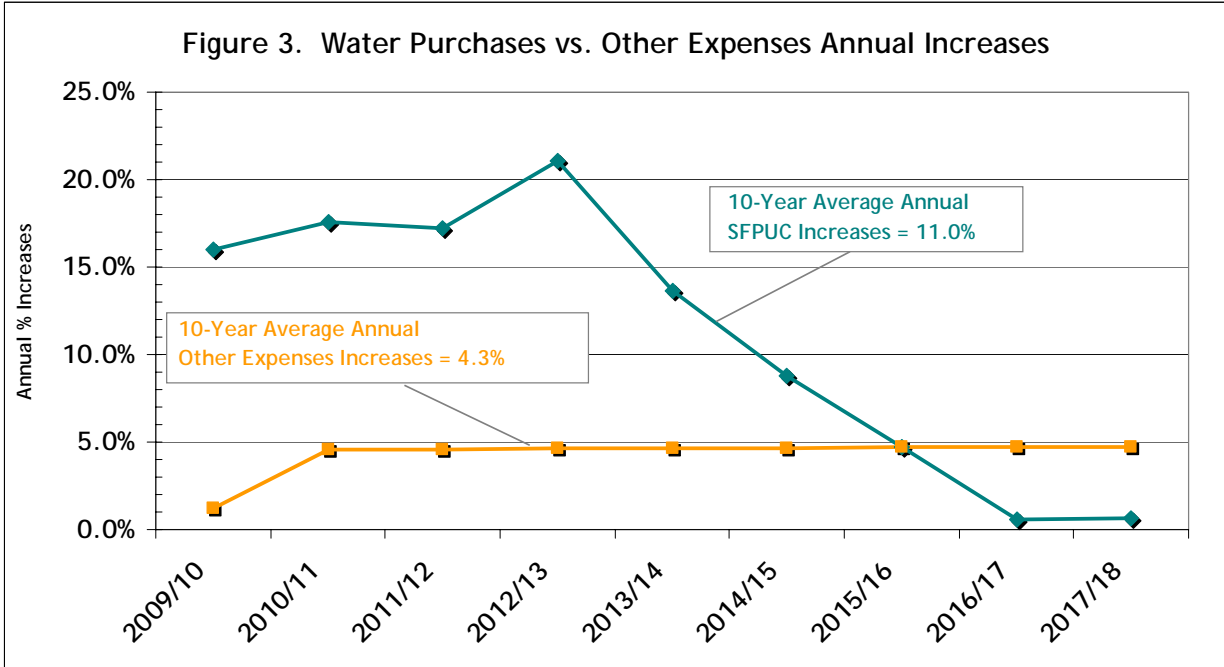
3.1 Forecast of Operating Expenses

Table 3 projects operating expenses over the ten-year analysis period. The FY 2009/10 budget serves as the base year. Forecasted increases in purchased water reflect the percentage increases provided by the SFPUC. Electricity expenses are forecasted to increase at 10% per year, while O&M expenses for the two water treatment plants are projected to increase at 5% per year. All other expenses, including salaries and payroll taxes, are increased at 4% per year. At the bottom of the table are the estimated overall percentage increases in operating expenses; they are forecasted to increase between 3% and 10% over the next five years.

| Table 3. Projected Future Operating Expenses | | | | | | | | | | | |
|---|----------------|------------|----------------|----------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | Budget | Escalation | Estimated | | | | | | | | |
| | 2009/10 | Factor | 2010/11 | 2011/12 | 2012/13 | 2013/14 | 2014/15 | 2015/16 | 2016/17 | 2017/18 | 2018/19 |
| Operating Expenses | | | | | | | | | | | |
| Water Purchased (1) | \$1,610,934 | varies | \$1,894,000 | \$2,220,000 | \$2,688,000 | \$3,054,000 | \$3,323,000 | \$3,479,000 | \$3,458,000 | \$3,479,000 | \$3,479,000 |
| Electricity | 334,299 | 10% | 368,000 | 405,000 | 446,000 | 491,000 | 540,000 | 594,000 | 653,000 | 718,000 | 790,000 |
| Denniston WTP Maint./Oper. | 73,000 | 5% | 77,000 | 81,000 | 85,000 | 89,000 | 93,000 | 98,000 | 103,000 | 108,000 | 113,000 |
| Nunes WTP Maint./Oper. | 103,400 | 5% | 109,000 | 114,000 | 120,000 | 126,000 | 132,000 | 139,000 | 146,000 | 153,000 | 161,000 |
| CSP WTP Maint./Oper. | 77,000 | 5% | 81,000 | 85,000 | 89,000 | 93,000 | 98,000 | 103,000 | 108,000 | 113,000 | 119,000 |
| Salaries & Payroll Taxes | 1,666,427 | 4% | 1,733,000 | 1,802,000 | 1,874,000 | 1,949,000 | 2,027,000 | 2,108,000 | 2,192,000 | 2,280,000 | 2,371,000 |
| Insurance | 500,830 | 4% | 521,000 | 542,000 | 564,000 | 587,000 | 610,000 | 634,000 | 659,000 | 685,000 | 712,000 |
| Employee Retirement | 447,750 | 4% | 466,000 | 485,000 | 504,000 | 524,000 | 545,000 | 567,000 | 590,000 | 614,000 | 639,000 |
| Other Expenses | <u>874,309</u> | 4% | <u>909,000</u> | <u>945,000</u> | <u>983,000</u> | <u>1,022,000</u> | <u>1,063,000</u> | <u>1,106,000</u> | <u>1,150,000</u> | <u>1,196,000</u> | <u>1,244,000</u> |
| Total Operating Expenses | 5,687,949 | | 6,158,000 | 6,679,000 | 7,353,000 | 7,935,000 | 8,431,000 | 8,828,000 | 9,059,000 | 9,346,000 | 9,628,000 |
| Increase from prior fiscal yea | 200,609 | | 470,051 | 521,000 | 674,000 | 582,000 | 496,000 | 397,000 | 231,000 | 287,000 | 282,000 |
| Percent increase from prior fiscal year | 3.66% | | 8.3% | 8.5% | 10.1% | 7.9% | 6.3% | 4.7% | 2.6% | 3.2% | 3.0% |
| <small>(1) Projected SFPUC rates distributed to BAWSCA in December 2008 Source: Coastside County Water District Budget FY 2009/10</small> | | | | | | | | | | | |

3.2 Projected Wholesale Rate Increases

Figure 3 shows a ten-year projection of the SFPUC's wholesale water rates. The highest increases occur in the next five years. Figure 4 illustrates the average annual increases for SFPUC water purchases compared to all other expenses. While most other expenses are estimated to increase by 4% annually for the ten-year period, water purchases is expected to increase on average by 11% through FY 2018/19.

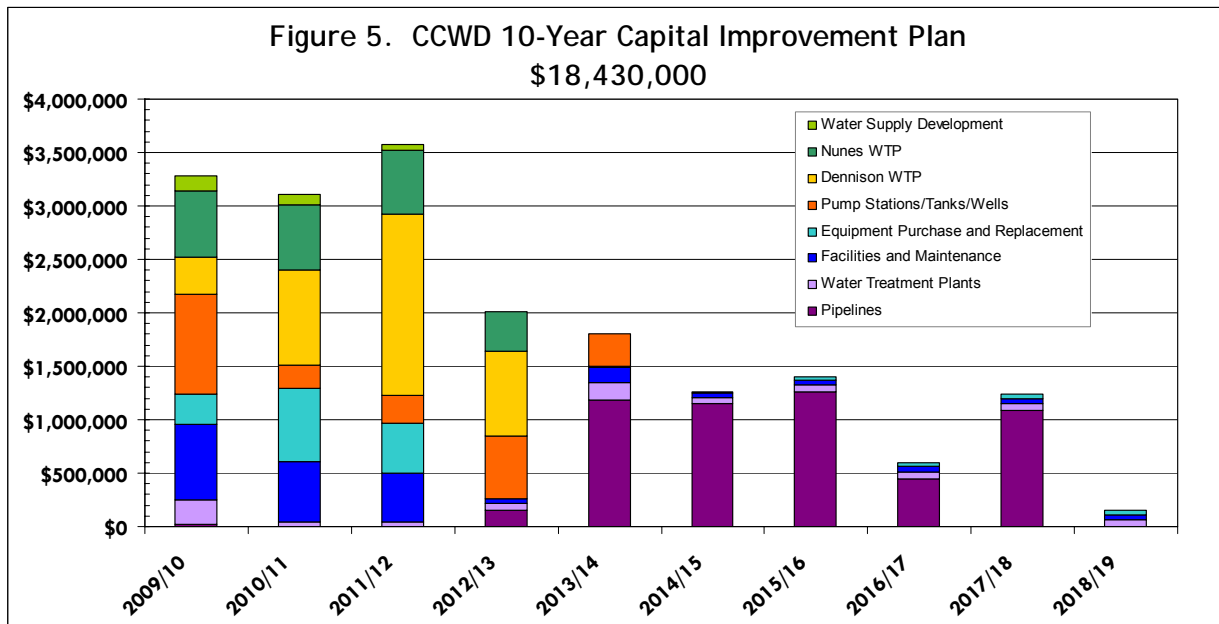


4 CAPITAL IMPROVEMENT PLAN (FY 2009/10 – 2017/18)

4.1 Capital Projects

The District recently developed a Ten-Year Capital Improvement Program (CIP) which identifies about \$18.4 million of refurbishments, replacements, expansions, and upgrades to the District's through 2018/19. Figure 5 illustrates anticipated project costs per year based on the year each project is initiated. The Ten-Year CIP is shown in Appendix B.

The projects are broken out into eight categories consistent with the CIP: a) pipeline projects, b) wastewater treatment plants, c) facilities and maintenance, d) equipment purchase and replacement, e) pump stations/tanks/wells, f) Denniston Water Treatment Plants short- and long-term improvements, g) Nunes Water Treatment Plant short- and long-term improvements, and h) water supply development. Costs are shown in 2009 dollars. The CIP will be updated annually as changes are incorporated and as better cost information becomes available.



Capital expenditures for FY 2009/10 are estimated at \$3.3 million. Major projects for this year include short-term upgrades to the Nunes Water Treatment Plant, pre and post treatment design for the Denniston Water Treatment Plant, and the AMR Program and fixed network.

4.2 Construction Cost Inflation

In Table 4, BWA escalates the District's 10-year capital improvement plan by 5%¹ annually to account for construction cost inflation. Using a 5% escalation rate, the future costs of these improvements over the next decade is projected at \$22.3 million.

| Table 4. Escalated 10-Year Capital Improvement Plan | | | |
|--|-----------|------------------------|--------------------------|
| | FY | Nominal CIP | Escalated CIP |
| 1 | 2009/10 | \$3,287,000 | \$3,287,000 |
| 2 | 2010/11 | 3,105,500 | 3,424,000 |
| 3 | 2011/12 | 3,575,500 | 4,139,000 |
| 4 | 2012/13 | 2,005,500 | 2,438,000 |
| 5 | 2013/14 | 1,799,500 | 2,297,000 |
| 6 | 2014/15 | 1,262,000 | 1,691,000 |
| 7 | 2015/16 | 1,406,000 | 1,978,000 |
| 8 | 2016/17 | 598,000 | 884,000 |
| 9 | 2017/18 | 1,239,000 | 1,922,000 |
| 10 | 2018/19 | <u>152,000</u> | <u>248,000</u> |
| | Total | \$18,430,000 | \$22,308,000 |

¹ The average annual increase over the last five years for the Engineering News Record

5 FINANCING PLAN

Bartle Wells Associates examined different alternatives to finance the ten-year CIP and developed cash flow projections showing estimated revenues, expenses, and fund balances over this future period. The financial projections are based on the District's 2009/10 budget and 10-year capital improvement plan.

5.1 Financing Alternatives

Financing alternatives for the District's long-term capital program include:

- **Pay-As-You-Go Cash Funding** – The District can choose to fund a portion of its capital costs on a pay-as-you-go cash basis using operating revenues and cash reserves. Due to the magnitude of the 10-Year CIP, pay-as-you-go funding would need to be supplemented by some debt financing.
- **State Drinking Water State Revolving Fund (SDW-SRF) Loan Program** – California's Drinking Water State Revolving Fund (SDW-SRF) was established to make low cost financing available to public water systems to enable them to meet drinking water standards for safety and health protection. The Department of Health Services (DHS), with support from the Department of Water Resources (DWR), receives SRF funds from the U.S. Environmental Protection Agency (EPA), adds State matching funds, then provides California water systems low cost financing opportunities, related technical assistance, and funds source water protection activities. The interest rate is set at one half of the state's general obligation bond rate; current SDW-SRF interest rates are around 3.0%. The first debt service payment for an SRF Loan is not due until one year after the project is completed. The program does not generally fund the replacement of facilities that were previously grant-funded. Debt repayment is typically secured by an agency's legal pledge to use and raise rates and fees as needed to repay debt service. Under new SRF Loan program requirements implemented in September 2008, loan applicants must adopt rate increases adequate to meet the program's financial covenants for three years after the loan-funded project is complete.
- **Other Grant & Loan Programs** – There are a number of other state and federal funding programs available to fund projects that meet each program's eligibility requirements. Grants are difficult to secure and often only provide a relatively small amount of funding if awarded; water grants are generally only available to small agencies serving economically disadvantaged areas. Most other subsidized loan programs offer interest rates that are higher than the SRF Loan program.
- **Revenue Bonds and COPs** – Revenue bonds and Certificates of Participation (COPs) are the most common types of debt financing used by utility enterprises, such as water and wastewater agencies. Although there are some technical differences between bonds and COPs, both function almost exactly the same from the issuer's standpoint. Debt repayment is secured by an agency's binding legal pledge to raise rates and charges necessary to repay debt and achieve a specified debt service coverage ratio. Revenue bonds are typically issued with terms of up to 30 years provided the term of the debt does not exceed the life of the project being financed. Revenue bonds or COPs can

generally be issued to fund up to three years of anticipated capital expenditures. Many California agencies are required to obtain voter-approval for the direct issuance of revenue bonds. However, no voter approval is required for issuance of COPs or for revenue bonds issued through a third-party entity such as a joint financing authority.

- **Bank Loans, Private Placements, Leases, & Lines of Credit** – Bank loans, private placements, and leases typically offer slightly higher interest rates than bonds, but also have lower costs of issuance. This generally makes bank loans a cost-effective option for smaller borrowings, historically under \$10 million. However, in the current interest rate environment, bank loans may not be cost-effective for larger financings depending on the underlying credit of the issuing agency. Short-term bank loans and lines of credit are sometimes used to provide interim financing that will eventually be taken out with long-term debt, such as bonds. For example, agencies with limited fund reserves may use a line of credit to fund project design and preliminary engineering costs prior to issuing long-term bonds when construction bids are received. The legal covenants securing loans and lines of credit are generally similar to those of bonds or COPs.
- **Pooled Financing** – Bond pools such as those through the California Statewide Communities Development Authority (CSCDA) and the Association of Bay Area Governments (ABAG), can offer low-cost, competitively bid financing programs available to cities and special districts in California to finance or refinance water and wastewater capital projects. The bond pool offers low issuance costs and flexible financing terms of up to 30 years. Smaller borrowings are welcomed and may be accomplished on a cost-effective basis. Each participating agency can set its own bond terms and has its own independent repayment schedule. The bonds can be issued by competitive sale to ensure the lowest interest rates and do not require a public vote for participation. The issuance process typically takes from one to three months depending on each participating agency's financing needs. The District's previous debt issue in 1998 for \$2,855,000 was a pooled financing through ABAG. Given today's credit crisis and economic recession, bond pools are not generally available.

5.2 Capital Improvement Funding

Based on the evaluation of various funding alternatives for the Ten-Year CIP, BWA recommends the District fund its Ten-Year CIP with a combination of pay-as-you-go cash funding combined with debt financing. BWA assumes the use of two SDW-SRF loans. With approximately \$6.5 million in reserves, the District can fund projects in 2009/10 with pay-as-you-go financing. However, the District will need to issue long-term debt to finance a portion of the total Ten-Year CIP, which is estimated to be approximately \$22.3 million in year-of-construction dollars. Prior to issuing any debt, the District will need to adopt rate increases to provide adequate debt repayment security for each debt issue.

5.3 Safe Drinking Water – State Revolving Fund Loans

The financial projections developed in this report assume the District will issue a total of \$7.5 million in SDW-SRF loans. Based on a 2.92% interest rate² for a term of 20 years, the first loan will be for \$3.5 million in FY 2010/11, with annual payments estimated at \$235,000. The second loan will be for \$4 million in FY 2011/12, with annual payments estimated at \$268,000. The first debt service payment for a SDW-SRF Loan is not due until one year after the project is completed.

² On March 25, 2009, the State of California sold approximately \$6.5 billion in General Obligation Bonds at an average interest rate of 5.833%. One-half of the State G.O. bond rate is 2.92%

6 RATE INCREASES

6.1 Drivers of Future Rate Increases

The financial projections indicate the need for rate increases to keep long-term revenues in line with long-term expenses. The recommended adjustments are needed to enable the District to:

- **Fund wholesale water rate increases from the SFPUC.** Although customers may be conserving water, the District's costs to purchase water continue to rise. The SFPUC's rate projections show average annual increases of roughly 14% through 2015/16 with the highest rate increases occurring in the next five years.
- **Fund approximately \$7.5 million in new debt to finance the capital improvement plan.** The District will use reserves to pay for capital projects in FY 2009/10 but will need to issue debt in FY 2010/11 and FY 2011/12 to fund \$6.7 million in capital outlay. The new debt will result in a roughly \$400,000 increase in annual debt service.
- **Keep revenues aligned with annual operating cost inflation.** The District faces ongoing operating cost inflation for its operations and maintenance. On average, total operating expenses, excluding water purchases increase 4.3% each year through FY 2018/19.
- **Satisfy rate covenants in existing debt obligations.** The District has pledged net revenues generated by the water system to the payment of the existing COP installment payments. In order to issue additional debt on parity with existing debt, the net revenues shall be at least 120% of the maximum annual debt service for all existing and new debt. In addition, in each fiscal year, the net revenue must be at least 120% of the annual debt service for that fiscal year.
- **Maintain a prudent level of operating and capital fund reserves.** The District makes annual contributions to their reserve funds. To comply with the District's operating reserve policy, the District needs to maintain a minimum reserve fund target of 25% of the annual operating revenue. The District's capital reserve does not have a minimum target, but the District should continue to make contributions to develop a sustainable pay-as-you-go capital program.

Table 5 projects the sources and uses of funds for the water system from FY 2010/11 through FY 2018/19.

The primary source of revenue is water sales and the table indicates the percentage increase in water sales revenue necessary to cover operating and capital (non-operating) expenses and to satisfy certain rate design criteria that BWA believes are prudent and appropriate for a publicly owned water utility.

The table forecasts operating expenses, the two largest being purchased water and salaries and payroll taxes. The operating expense projections were explained earlier in the report. Also, shown are future capital project expenditures and debt service on existing COPs and the two SDW-SRF loans. One loan for \$3.5 million is planned for FY 2010/11 and the other for \$4.0 million is scheduled for FY 2011/12.

There are five revenue and reserve policy criteria:

- (1) Total revenues (including proceeds from the SDW-SRF loans) should cover total expenses (operating and non-operating);
- (2) Net revenues (operating revenues less O&M expenses) must be at least 120% of total debt service (*District's current debt service policy*);
- (3) Minimum total (capital and operating) reserves should equal 25% of operating expenses (*District's current reserve fund policy*);
- (4) Rate stabilization fund target equals one year of debt service, around \$1.0 million and that the target is met in five years (*BWA recommendation*); and
- (5) Minimum capital and operating reserve target should be 15% of operating expenses (*BWA recommendation*),

The District increased water rates and charges by 10% for budget FY 2009/10, and this rate increase is reflected in the water sales revenue estimate shown in Table 5. Including the estimated capital project expenditures for the budget fiscal year shows total expenditures being greater than total revenues and indicates the need to draw down cash reserves. BWA estimates the ending balance of the operating and capital funds would be greater than the 25% target level. The debt service coverage requirement of 120% of annual debt service will be met.

In future years, the District will need significant water rate increases to pay for increased operating expenses, capital projects, debt service on two SDW-SRF loans, and to maintain prudent levels of reserves. BWA believes a 15% water rate increase in FY 2010/11 is needed to satisfy all of the rate design criteria.

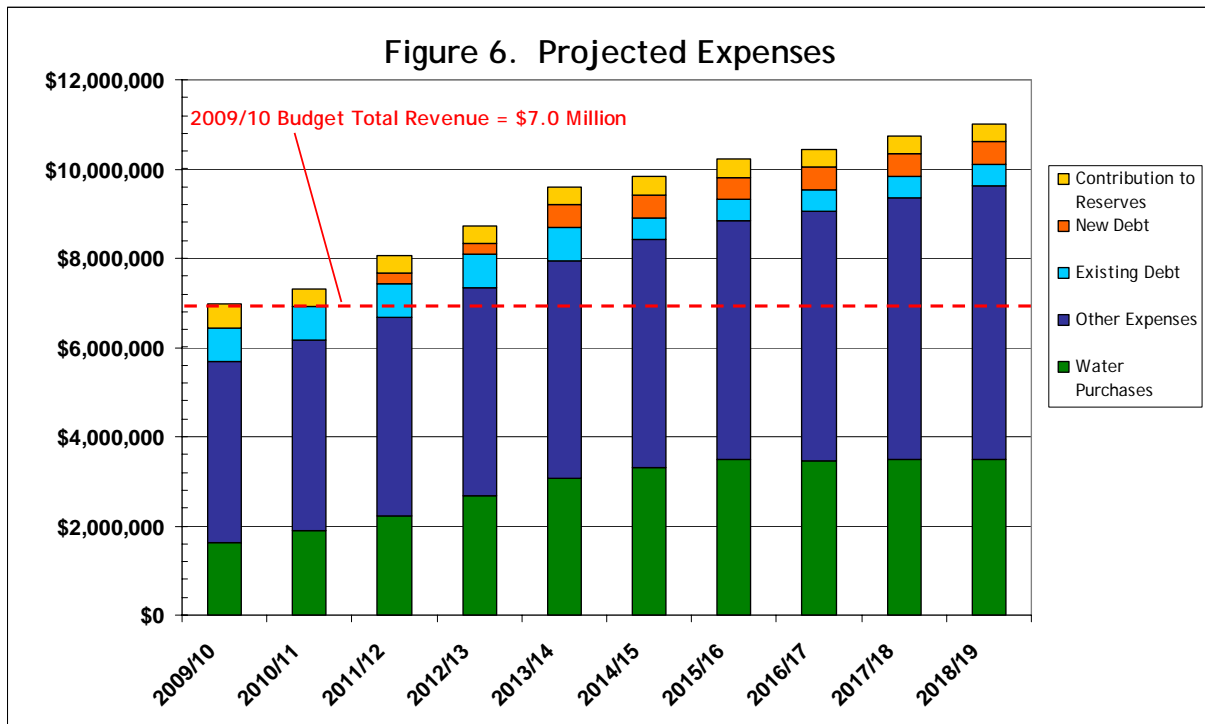
Significant water rate increases are also necessary in the following years to pay for the SDW-SRF loans and the forecasted capital project expenditures. The following increases are projected: 19% in FY 2011/12, 19% in FY 2012/13, 14% in FY 2013/14, and 5% in FY 2014/15.

Table 5. Cash Flow Projection

| | Budget | | Estimated | | | | | | | | | |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|
| | 2009/10 | 2010/11 | 2011/12 | 2012/13 | 2013/14 | 2014/15 | 2015/16 | 2016/17 | 2017/18 | 2018/19 | | |
| Beginning Fund Balance | \$6,459,920 | \$3,172,614 | \$3,435,403 | \$3,585,829 | \$2,298,740 | \$1,643,072 | \$2,166,883 | \$2,022,089 | \$2,752,236 | \$2,170,017 | | |
| Operating & Capital Fund Balance | \$0 | \$0 | \$250,000 | \$500,000 | \$750,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | | |
| Rate Stabilization Fund Balance | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | |
| Rate Adjustment | 10.0% | 15.0% | 19.0% | 19.0% | 14.0% | 5.0% | 0.0% | 0.0% | 0.0% | 0.0% | | |
| SOURCES OF FUNDS | | | | | | | | | | | | |
| REVENUES | 5,844,903 | 6,721,600 | 7,998,700 | 9,518,500 | 10,851,100 | 11,393,700 | 11,393,700 | 11,393,700 | 11,393,700 | 11,393,700 | | |
| Water Sales | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | | |
| Property Taxes (1) | 100,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ERAF Refund (1) | 458,000 | 458,000 | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 | | |
| Service Connections | 65,242 | 68,000 | 71,000 | 74,000 | 77,000 | 80,000 | 83,000 | 86,000 | 89,000 | 93,000 | | |
| Interest (2) | 194,200 | 202,000 | 210,000 | 218,000 | 227,000 | 236,000 | 245,000 | 255,000 | 265,000 | 275,000 | | |
| Other Revenues (3) | 6,962,345 | 7,749,600 | 8,604,700 | 10,135,500 | 11,480,100 | 12,034,700 | 12,046,700 | 12,059,700 | 12,072,700 | 12,087,700 | | |
| Subtotal Revenues | 0 | 3,500,000 | 4,000,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| LONG-TERM BORROWING | 0 | 3,500,000 | 4,000,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Proceeds from SDW-SRF Loans | 0 | 3,500,000 | 4,000,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| TOTAL SOURCES | 6,962,345 | 11,249,600 | 12,604,700 | 10,135,500 | 11,480,100 | 12,034,700 | 12,046,700 | 12,059,700 | 12,072,700 | 12,087,700 | | |
| USES OF FUNDS | | | | | | | | | | | | |
| Operating Expenses | 1,610,934 | 1,894,000 | 2,220,000 | 2,688,000 | 3,054,000 | 3,323,000 | 3,479,000 | 3,458,000 | 3,479,000 | 3,479,000 | | |
| Water Purchased | 334,299 | 368,000 | 405,000 | 446,000 | 481,000 | 540,000 | 594,000 | 653,000 | 718,000 | 790,000 | | |
| Electricity | 73,000 | 77,000 | 81,000 | 85,000 | 89,000 | 93,000 | 98,000 | 103,000 | 108,000 | 113,000 | | |
| Dennison Water Treatment Plant Maint./Oper. | 103,400 | 109,000 | 114,000 | 120,000 | 126,000 | 132,000 | 139,000 | 146,000 | 153,000 | 161,000 | | |
| Nunes Water Treatment Plant Maint./Oper. | 77,000 | 81,000 | 85,000 | 89,000 | 93,000 | 98,000 | 103,000 | 108,000 | 113,000 | 119,000 | | |
| Crystal Springs Project Water Treatment Plant Maint./Oper. | 1,666,427 | 1,733,000 | 1,802,000 | 1,874,000 | 1,949,000 | 2,027,000 | 2,108,000 | 2,192,000 | 2,280,000 | 2,371,000 | | |
| Salaries & Payroll Taxes | 500,830 | 521,000 | 542,000 | 564,000 | 587,000 | 610,000 | 634,000 | 659,000 | 685,000 | 712,000 | | |
| Insurance | 447,750 | 466,000 | 485,000 | 504,000 | 524,000 | 545,000 | 567,000 | 590,000 | 614,000 | 639,000 | | |
| Employee Retirement | 874,309 | 909,000 | 945,000 | 983,000 | 1,022,000 | 1,063,000 | 1,106,000 | 1,150,000 | 1,196,000 | 1,244,000 | | |
| Other Expenses | 5,687,949 | 6,158,000 | 6,679,000 | 7,353,000 | 7,935,000 | 8,431,000 | 8,828,000 | 9,059,000 | 9,346,000 | 9,628,000 | | |
| Subtotal Operating Expenses | 757,245 | 754,811 | 751,274 | 746,589 | 750,769 | 485,889 | 482,494 | 483,553 | 483,919 | 483,566 | | |
| Non-Operating (Capital-Related) Expenses | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Existing Water Revenue Bonds | 3,287,000 | 3,424,000 | 4,139,000 | 2,438,000 | 2,297,000 | 1,691,000 | 1,978,000 | 884,000 | 1,922,000 | 248,000 | | |
| Future SDW-SRF Loans | 517,457 | 400,000 | 400,000 | 400,000 | 400,000 | 400,000 | 400,000 | 400,000 | 400,000 | 400,000 | | |
| Capital Projects (Escalated) | 0 | 250,000 | 250,000 | 250,000 | 250,000 | 0 | 0 | 0 | 0 | 0 | | |
| Contribution to CIP & Reserves (Transfer) | 4,561,702 | 4,828,811 | 5,775,274 | 4,069,589 | 4,200,769 | 3,079,889 | 3,363,494 | 2,270,553 | 3,308,919 | 1,634,566 | | |
| Contribution to Rate Stabilization Fund (Transfer) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Subtotal Non-Operating Expenses | 10,249,651 | 10,986,811 | 12,454,274 | 11,422,589 | 12,135,769 | 11,510,889 | 12,191,494 | 11,329,553 | 12,654,919 | 11,262,566 | | |
| TOTAL USES | (3,287,306) | 262,789 | 150,426 | (1,287,089) | (655,669) | 523,811 | (144,794) | 730,147 | (582,219) | 825,134 | | |
| Surplus (Deficiency) | 3,172,614 | 3,435,403 | 3,585,829 | 2,298,740 | 1,643,072 | 2,166,883 | 2,022,089 | 2,752,236 | 2,170,017 | 2,995,152 | | |
| Operating & Capital Fund Balance | 0 | 250,000 | 500,000 | 750,000 | 1,000,000 | 1,000,000 | 1,000,000 | 1,000,000 | 1,000,000 | 1,000,000 | | |
| Rate Stabilization Fund Balance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Debt Service Coverage (4) Target = 1.2 | 1.68 | 2.11 | 1.95 | 2.83 | 2.83 | 3.64 | 3.27 | 3.04 | 2.76 | 2.49 | | |
| Target Met | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | | |
| Minimum Capital and Operating Reserve (5) Target - 25% | 1,461,226 | 1,680,400 | 1,999,675 | 2,379,625 | 2,712,775 | 2,848,425 | 2,848,425 | 2,848,425 | 2,848,425 | 2,848,425 | | |
| Target Met | yes | yes | yes | no | no | no | no | no | no | yes | | |
| Minimum Capital and Operating Reserve Target - 15% | 876,735 | 1,008,240 | 1,199,805 | 1,427,775 | 1,627,865 | 1,709,055 | 1,709,055 | 1,709,055 | 1,709,055 | 1,709,055 | | |
| Target Met | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | | |
| Minimum Rate Stabilization Fund Target | - | 754,811 | 986,274 | 981,589 | 1,253,769 | 988,889 | 985,494 | 986,553 | 986,919 | 986,566 | | |
| Target Met | - | no | no | no | no | yes | yes | yes | yes | yes | | |

(1) Property tax and ERAF refunds based on conservative projections.
(2) Interest earnings escalated by 4% annually.
(3) Other revenues (hydrant sales, late penalty, miscellaneous, and cell site lease income) escalated by 4% annually.
(4) Debt service coverage is calculated by dividing net revenues (revenues minus operating expenses) by total debt service. Minimum coverage requirement is 1.2 times annual debt service.
(5) The District's current minimum fund reserve policy is 25% of annual operating revenue.

Figure 6 shows a long-term projection of expenses broken out by debt service, CIP reserve contributions, SFPUC water purchases, and all other expenses. (The figure excludes costs for capital improvements financed by debt, but does include estimated debt service for those projects.) The red dashed line on the table shows total projected water revenues for FY 2009/10. Note that FY 2009/10 revenues do not fully cover expenditures for future years. Therefore, rate increases will be needed to bring long-term revenues in balance with long-term expenses.



6.2 Future Rate Increases

Based upon the District's CIP and operating revenue projections, the following rate increases shown on Table 6 are needed to fund the District's operations. The proposed rate increases will fund operations and debt service while meeting debt service coverage requirements and fund reserve targets. Rate increases will be effective July 1 of each year. The percentage increase will be applied to both the base charge and variable charge for residential and non-residential customers.

| Table 6. Projected Water Rate Adjustments - Bi-Monthly | | | | | | | | | | | |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2008/09 | 2009/10 | 2010/11 | 2011/12 | 2012/13 | 2013/14 | 2014/15 | 2015/16 | 2016/17 | 2017/18 | 2018/19 |
| % Rate Increase | | 10.0% | 15.0% | 19.0% | 19.0% | 14.0% | 5.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Base Charge | \$21.87 | \$24.06 | \$27.67 | \$32.93 | \$39.19 | \$44.68 | \$46.91 | \$46.91 | \$46.91 | \$46.91 | \$46.91 |
| Variable Charge (1) | | | | | | | | | | | |
| <u>Residential</u> | | | | | | | | | | | |
| 0 - 8 hcf | \$3.57 | \$3.93 | \$4.52 | \$5.38 | \$6.40 | \$7.30 | \$7.67 | \$7.67 | \$7.67 | \$7.67 | \$7.67 |
| 9 - 25 hcf | \$3.94 | \$4.33 | \$4.98 | \$5.93 | \$7.06 | \$8.05 | \$8.45 | \$8.45 | \$8.45 | \$8.45 | \$8.45 |
| 26 - 40 hcf | \$5.12 | \$5.63 | \$6.47 | \$7.70 | \$9.16 | \$10.44 | \$10.96 | \$10.96 | \$10.96 | \$10.96 | \$10.96 |
| 41 & over hcf | \$6.33 | \$6.96 | \$8.00 | \$9.52 | \$11.33 | \$12.92 | \$13.57 | \$13.57 | \$13.57 | \$13.57 | \$13.57 |
| <u>Non-Residential</u> | | | | | | | | | | | |
| Per hcf | \$4.86 | \$5.35 | \$6.15 | \$7.32 | \$8.71 | \$9.93 | \$10.43 | \$10.43 | \$10.43 | \$10.43 | \$10.43 |
| 1 - 1 unit = 1 hcf = 7.48 gallons | | | | | | | | | | | |

6.3 Customer Impacts

Based on an analysis of residential water consumption over the past two years, bi-monthly median water use for residential customers is 14 hundred cubic feet. Table 7 shows the bi-monthly rate impacts for a typical single family residence with a 5/8" meter using 14 hundred cubic feet of water.

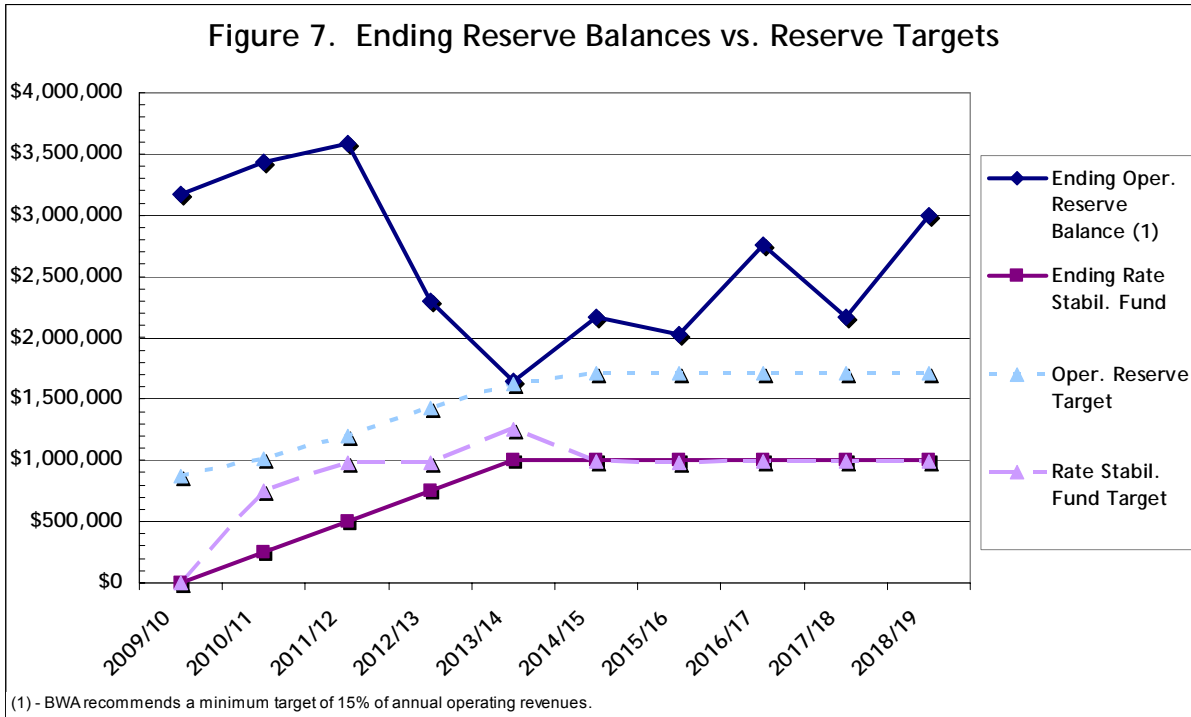
| Table 7. Projected Impact on Bi-Monthly Typical SFR Bill | | | | | | | | | | |
|--|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| | 2009/10 | 2010/11 | 2011/12 | 2012/13 | 2013/14 | 2014/15 | 2015/16 | 2016/17 | 2017/18 | 2018/19 |
| SFR - 5/8" meter, 14 ccf | \$81.48 | \$93.71 | \$111.55 | \$132.75 | \$151.38 | \$158.97 | \$158.97 | \$158.97 | \$158.97 | \$158.97 |

6.4 Reserve Policies

- **Operating Reserve**

In 2007, the Board approved Resolution No. 2007-6 - Adopting Statement of Policy for Maintaining Operating Reserve which stipulates that the minimum reserve fund target is 25% of the District's annual operating revenue. Maintaining a prudent level of fund reserves is an important component of financial management. Adequate fund reserves a) provide a financial cushion for dealing with unanticipated financial needs and emergencies, b) provide working capital to help deal with revenue and expense fluctuations; and c) provide guidance for long-term financial planning. The fund reserve target will vary over time based on the District's annual operating revenue. It is acceptable if reserves fall below the target on a temporary basis, provided action is taken to achieve the target over the longer run.

The District met the minimum operating reserve fund target in FY 2008/09. Bartle Wells recommends, as discussed further below, that the operating reserve target be reduced to 15% of annual operating revenue. As shown in Figure 7, the proposed rate adjustments ensure that the District complies with this revised reserve fund target in the future.



- **Rate Stabilization Fund**

BWA recommends the District establish a rate stabilization reserve to comply with stipulations in the Series 2006B CSCDA Water Revenue Bonds borrowing. The purpose of the fund is to reduce water revenue requirements in order to smooth water rate adjustments over time. The District may withdraw money from the rate stabilization fund as needed.

Section 5.4 of the bond documents stipulates that the District deposit surplus net revenues in a rate stabilization fund. BWA interprets the 2006B CSCDA Water Revenue Bond Installment Purchase Agreement to not establish a minimum or maximum reserve for the rate stabilization fund. BWA suggests a target level equal to one-year's debt service. For FY 2010/11 total debt service is approximately \$755,000. When the District issues new debt, the rate stabilization fund target will increase to almost \$1 million based on the additional debt service.

BWA recommends phasing in contributions to the rate stabilization fund over four years to meet the rate stabilization fund requirement. The financing plan budgets \$250,000 through FY 2013/14 to gradually meet the fund target. BWA further recommends reducing the current operating reserve fund policy target of 25% to 15% of annual operating revenue. Based on the 15% reserve fund target, the District will transfer \$400,000 each year to the capital and operating reserve fund. The fund reserve targets are summarized in Table 8.

| Table 8. Recommended Reserve Fund Balances | | |
|---|---------------------------------------|-----------------------|
| Reserve Fund | Fund Reserve Target | 2010/11 Target |
| Capital and Operating Reserve | 15% of Annual Operating Revenue | \$1,008,000 |
| Rate Stabilization Fund | 1-Year of Maximum Annual Debt Service | \$250,000 |

7 SUMMARY AND RECOMMENDATIONS

The District has adopted rate increases every year since 2001. These annual increases have helped keep revenues in line with the costs of providing service and enabled the District to accrue and maintain a healthy level of fund reserves, which totaled approximately \$6.5 million in cash and equivalents as of May 31, 2009. Although the District has historically been in good financial health, the District is facing new financial challenges, particularly due to increased wholesale water rates from the SFPUC and an \$18.4 capital improvement program to repair and upgrade the water system.

BWA developed 10-year financial projections to evaluate the near-term and long-term revenue requirements of the District's water enterprise. The financial projections indicate the need for significant ongoing rate increases to recover operating and capital funding needs and keep rates in line with the cost of providing service. The recommended rate adjustments will cover operating and maintenance expenses, fund new debt service, and maintain a healthy level of reserves.

Recommendations –

- **Adopt water rate increases.** BWA recommends that the District adopt multi-year water rate increases to cover expenses and meet debt service coverage requirements. In addition to annual operating cost inflation, the District is facing large wholesale water rate increases from the SFPUC particularly over the next five years. Moreover, rate increases are necessary for the District to make debt service payments and to maintain net revenues of at least 120% of maximum annual debt service. The District should continue to review its rates and revenue requirements each year to ensure that revenue and expense projections are accurate.
- **Issue debt in the form of SDW-SRF loans to fund the CIP.** BWA recommends that the District apply for SDW-SRF loans for \$3.5 million in FY 2010/11 and \$4.0 million in FY 2011/12 to fund capital needs. Compared to other financing alternatives, SDW-SRF loans offer lower interest rates and issuance costs, and the first debt service payment is not due until one year after project completion. The District should continue to annually review the ten-year CIP as updated cost information becomes available.
- **Establish a rate stabilization fund.** BWA recommends that the District establish a rate stabilization fund to fulfill bond obligations with a minimum fund target equal to one-year's total debt service. BWA proposes to phase in contributions in the amount of \$250,000 through FY 2013/14 to build the rate stabilization fund.
- **Reduce capital and operating reserve target.** BWA recommends that the District lower its current capital and operating reserve policy of 25% of annual operating revenue to 15%. This reduction will allow the District to establish a rate stabilization fund while maintaining a prudent level of reserves. The annual contribution to the capital and operating reserve is projected to be \$400,000.

APPENDIX

Appendix A. FY 2009/10 Budget

Operations & Maintenance Budget - FY 2009/2010

| Account Number | Description | Proposed Budget FY 09/10 | Approved FY 08/09 | FY 09/10 Budget Vs. FY 08/09 Budget | FY 09/10 Budget Vs. FY 08/09 Budget | Proj Year End | FY 09/10 Budget Vs. FY 08/09 Actual | FY 09/10 Budget Vs. FY 08/09 Actual | YTD Actual FY 08/09 as of March 31, 2009 |
|---------------------------------|------------------------------------|--------------------------|--------------------|-------------------------------------|-------------------------------------|--------------------|-------------------------------------|-------------------------------------|--|
| | | | Budget | \$ Change | % Change | Actual FY 08/09 | \$ Change | % Change | |
| REVENUE | | | | | | | | | |
| 4120 | Water Sales | \$5,844,903 | \$5,716,897 | \$128,006 | 2.2% | \$5,279,176 | \$565,727 | 9.7% | \$4,034,653 |
| 4170 | Hydrant Sales | \$25,000 | \$25,000 | \$0 | 0.0% | \$37,890 | -\$12,890 | -51.6% | \$28,425 |
| 4180 | Late Penalty | \$50,000 | \$50,000 | \$0 | 0.0% | \$50,368 | -\$368 | -0.7% | \$38,368 |
| 4230 | Service Connections | \$458,000 | \$8,000 | \$450,000 | 5625.0% | \$8,696 | \$449,304 | 98.1% | \$6,523 |
| 4920 | Interest Earned | \$65,549 | \$100,124 | -\$34,575 | -34.5% | \$86,124 | -\$20,575 | -31.4% | \$71,124 |
| 4930 | Property Taxes | \$300,000 | \$600,000 | -\$300,000 | -50.0% | \$595,078 | -\$295,078 | -98.4% | \$395,078 |
| 4950 | Miscellaneous | \$37,000 | \$76,000 | -\$39,000 | -51.3% | \$146,465 | -\$109,465 | -295.9% | \$125,465 |
| 4955 | Cell Site Lease Income | \$82,200 | \$0 | \$82,200 | 0.0% | \$0 | \$82,200 | 100.0% | \$0 |
| 4965 | ERAF Refund | \$100,000 | \$100,000 | \$0 | 0.0% | \$236,700 | -\$136,700 | -136.7% | \$236,700 |
| TOTAL REVENUE | | \$6,962,652 | \$6,676,021 | \$286,631 | 4.1% | \$6,440,496 | \$522,156 | 7.5% | \$4,936,335 |
| EXPENSES | | | | | | | | | |
| 5130 | Water Purchased | \$1,610,934 | \$1,460,119 | \$150,815 | 10.3% | \$1,395,986 | \$214,948 | 13.3% | \$991,564 |
| 5230 | Electrical Exp. Nunes WTP | \$19,000 | \$20,000 | -\$1,000 | -5.0% | \$18,902 | \$98 | 0.5% | \$13,234 |
| 5231 | Electrical Expenses, CSP | \$230,407 | \$234,299 | -\$3,892 | -1.7% | \$284,675 | -\$54,268 | -23.6% | \$283,675 |
| 5232 | Electrical Expenses/Trans. & Dist. | \$21,700 | \$24,800 | -\$3,100 | -12.5% | \$20,864 | \$836 | 3.9% | \$16,726 |
| 5233 | Elec Exp/Pilarcitos Cyn. | \$10,016 | \$10,000 | \$16 | 0.2% | \$4,975 | \$5,041 | 50.3% | \$3,975 |
| 5234 | Electrical Exp., Denn | \$53,176 | \$74,500 | -\$21,324 | -28.6% | \$28,450 | \$24,726 | 46.5% | \$12,830 |
| 5235 | Denn. WTP Oper. | \$30,000 | \$89,560 | -\$59,560 | -66.5% | \$28,633 | \$1,367 | 4.6% | \$39,454 |
| 5236 | Denn WTP Maint | \$43,000 | \$36,000 | \$7,000 | 19.4% | \$39,096 | \$3,904 | 9.1% | \$35,632 |
| 5240 | Nunes WTP Oper | \$65,400 | \$126,400 | -\$61,000 | -48.3% | \$79,440 | -\$14,040 | -21.5% | \$90,417 |
| 5241 | Nunes WTP Maint | \$38,000 | \$51,700 | -\$13,700 | -26.5% | \$38,085 | -\$85 | -0.2% | \$25,324 |
| 5242 | CSP - Operation | \$8,500 | \$8,500 | \$0 | 0.0% | \$7,774 | \$726 | 8.5% | \$5,763 |
| 5243 | CSP - Maintenance | \$68,500 | \$66,000 | \$2,500 | 3.8% | \$27,346 | \$41,154 | 60.1% | \$12,346 |
| 5250 | Laboratory Expenses | \$75,000 | \$0 | \$75,000 | 0.0% | \$0 | \$75,000 | 100.0% | \$0 |
| 5318 | Studies/Surveys/Consulting | \$22,544 | \$50,000 | -\$27,456 | -54.9% | \$48,999 | -\$26,455 | -117.3% | \$33,999 |
| 5321 | Water Conservation | \$60,650 | \$40,000 | \$20,650 | 51.6% | \$38,219 | \$22,431 | 37.0% | \$26,219 |
| 5322 | Community Outreach | \$28,700 | \$31,700 | -\$3,000 | -9.5% | \$21,884 | \$6,816 | 23.7% | \$10,884 |
| 5411 | Salaries - Field | \$907,674 | \$823,397 | \$84,277 | 10.2% | \$845,592 | \$62,082 | 6.8% | \$624,592 |
| 5412 | Maintenance Expenses | \$189,500 | \$180,786 | \$8,714 | 4.8% | \$190,000 | -\$500 | -0.3% | \$135,993 |
| 5414 | Motor Vehicle Exp. | \$47,500 | \$58,000 | -\$10,500 | -18.1% | \$52,555 | -\$5,055 | -10.6% | \$30,196 |
| 5415 | Maintenance, Wells | \$15,000 | \$25,400 | -\$10,400 | -40.9% | \$13,007 | \$1,993 | 13.3% | \$9,507 |
| 5610 | Salaries, Admin. | \$646,607 | \$617,719 | \$28,888 | 4.7% | \$603,880 | \$42,727 | 6.6% | \$433,880 |
| 5620 | Office Expenses | \$131,150 | \$139,350 | -\$8,200 | -5.9% | \$117,803 | \$13,347 | 10.2% | \$72,803 |
| 5621 | Computer Services | \$64,150 | \$53,900 | \$10,250 | 19.0% | \$57,108 | \$7,042 | 11.0% | \$39,108 |
| 5625 | Meetings/Training/Seminars | \$20,000 | \$32,500 | -\$12,500 | -38.5% | \$25,275 | -\$5,275 | -26.4% | \$16,275 |
| 5630 | Insurance | \$500,830 | \$493,349 | \$7,481 | 1.5% | \$498,922 | \$1,908 | 0.4% | \$374,285 |
| 5640 | Employee Retirement | \$447,750 | \$395,280 | \$52,470 | 13.3% | \$403,652 | \$44,098 | 9.8% | \$293,652 |
| 5645 | SIP 401 K Plan | \$20,000 | \$0 | \$20,000 | 0.0% | \$0 | \$20,000 | 0.0% | \$0 |
| 5681 | Legal | \$52,000 | \$57,000 | -\$5,000 | 0.0% | \$10,000 | \$42,000 | 80.8% | \$20,094 |
| 5682 | Engineering | \$15,000 | \$25,000 | -\$10,000 | -40.0% | \$14,870 | \$130 | 0.9% | \$9,870 |
| 5683 | Financial Services | \$31,000 | \$47,375 | -\$16,375 | -34.6% | \$26,356 | \$4,644 | 15.0% | \$18,356 |
| 5684 | Payroll Taxes | \$112,146 | \$105,541 | \$6,605 | 6.3% | \$102,399 | \$9,747 | 8.7% | \$74,399 |
| 5687 | Memberships & Subscriptions | \$53,815 | \$51,965 | \$1,850 | 3.6% | \$47,321 | \$6,494 | 12.1% | \$35,500 |
| 5688 | Election Expense | \$15,000 | \$0 | \$15,000 | 0.0% | \$0 | \$15,000 | 100.0% | \$0 |
| 5689 | Union Expenses | \$12,000 | \$15,000 | -\$3,000 | -20.0% | \$12,000 | \$0 | 0.0% | \$9,000 |
| 5700 | County Fees | \$10,800 | \$9,200 | \$1,600 | 17.4% | \$10,798 | \$2 | 0.0% | \$8,798 |
| 5705 | State Fees | \$10,500 | \$33,000 | -\$22,500 | -68.2% | \$11,711 | -\$1,211 | -11.5% | \$10,711 |
| Total Operating Expenses | | \$5,687,950 | \$5,487,340 | \$200,609 | 3.5% | \$5,126,577 | \$561,372 | 9.9% | \$3,819,061 |
| CAPITAL ACCOUNTS | | | | | | | | | |
| 5711 | Existing Bonds - 1998A | \$270,845 | \$266,220 | \$4,625 | 1.7% | \$265,981 | \$4,864 | 1.8% | \$265,981 |
| 5712 | Existing Bonds - 2006B | \$486,400 | \$482,460 | \$3,940 | 0.8% | \$483,305 | \$3,095 | 0.6% | \$483,305 |
| 5713 | Cont. to CIP & Reserves | \$517,457 | \$440,000 | \$77,457 | 17.6% | \$434,000 | \$83,457 | 16.1% | \$325,500 |
| Total Capital Accounts | | \$1,274,702 | \$1,188,680 | \$86,022 | 6.7% | \$1,183,286 | \$91,416 | 7.2% | \$1,074,786 |
| TOTAL EXPENSES | | \$6,962,652 | \$6,676,020 | \$286,631 | 4.1% | \$6,309,863 | \$652,788 | 9.4% | |

Appendix B. Ten-Year Capital Improvement Program

COASTSIDE COUNTY WATER DISTRICT
 PLANNED CAPITAL PROJECTS
 FISCAL YEARS 09/10 THRU '18/19

| Origin FY | Number | Priority | FY 09/09 | FY 09/10 | FY 10/11 | FY 11/12 | FY 12/13 | FY 13/14 | FY 14/15 | FY 15/16 | FY 16/17 | FY 17/18 | FY 18/19 | 09/10-18/19 Totals |
|---|--------|----------|----------|----------|----------|----------|----------|-----------|-----------|--------------|--------------|----------|----------|--------------------|
| PIPELINE PROJECTS - Pending Further Pressure Testing | | | | | | | | | | | | | | |
| 06 | 01 | 2 | | | | | 52,000 | 100,000 | 1,048,000 | | | | | \$152,000 |
| 06 | 01 | 2 | | | | | | | | | | | | \$1,048,000 |
| 06 | 02 | 3 | | | | | 100,000 | 80,000 | 1,200,000 | | | | | \$1,380,000 |
| 07 | 03 | 1 | | | | | 100,000 | 1,000,000 | | | | | | \$1,100,000 |
| 07 | 04 | 3 | | | | | | | 60,000 | 250,000 | | | | \$310,000 |
| | | 3 | | | | | | | | \$80,000.00 | \$249,000.00 | | | \$339,000 |
| | | 3 | | | | | | | | \$170,000.00 | \$840,000.00 | | | \$950,000 |
| | | 3 | 50,000 | 20,000 | | | | | | | | | | \$20,000 |
| WATER TREATMENT PLANTS | | | | | | | | | | | | | | |
| 99 | 05 | 1 | 27,000 | 80,000 | 29,000 | 30,000 | 31,000 | 32,000 | 33,000 | 34,000 | 35,000 | 36,000 | 37,000 | \$377,000 |
| 08 | 01 | 2 | 6,000 | | | | | | | | | | | \$0 |
| | | 1 | 15,000 | 100,000 | | | | | | | | | | \$0 |
| 08 | 02 | 1 | 15,000 | | | | | | | | | | | \$0 |
| 09 | 03 | 3 | | | | 15,000 | | | | | | | | \$15,000 |
| | | 3 | | | | | 50,000 | | | | | | | \$50,000 |
| 09 | 04 | 2 | 10,000 | | | | | | | | | | | \$0 |
| 07 | 01 | | | 50,000 | | | | | | | | | | \$0 |
| 09 | 05 | 2 | 10,000 | | | | | | | | | | | \$0 |
| 08 | 03 | | 15,000 | | | | | | | | | | | \$0 |
| 08 | 04 | | 15,000 | | | | | | | | | | | \$0 |
| 08 | 05 | 3 | | 12,500 | 12,500 | 12,500 | 12,500 | 12,500 | | | | | | \$50,000 |
| 08 | 06 | 3 | | | | 5,000 | 5,000 | 75,000 | | | | | | \$80,000 |
| 08 | 07 | 2 | | | | | | 30,000 | 30,000 | 30,000 | 30,000 | 30,000 | 30,000 | \$150,000 |
| | | | | | | | | | | | | | | \$872,000 |
| FACILITIES & MAINTENANCE | | | | | | | | | | | | | | |
| 9 | 6 | 2 | | 25,000 | 400,000 | 400,000 | 400,000 | 100,000 | | | | | | \$25,000 |
| 08 | 07 | 1 | 50,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | \$1,300,000 |
| 08 | 08 | 2 | 20,000 | 18,000 | 19,000 | 20,000 | 21,000 | 22,000 | 23,000 | 24,000 | 25,000 | 26,000 | 27,000 | \$225,000 |
| 09 | 01 | 1 | 17,000 | | | | | | | | | | | \$0 |
| 09 | 08 | 2 | 25,000 | 40,000 | 40,000 | 40,000 | 40,000 | 40,000 | | | | | | \$80,000 |
| 09 | 09 | 2 | 40,000 | 15,000 | 15,000 | 15,000 | 15,000 | 15,000 | | | | | | \$90,000 |
| 09 | 10 | 1 | 50,000 | 200,000 | | | | | | | | | | \$390,000 |
| 09 | 11 | 1 | 50,000 | | | | | | | | | | | \$200,000 |
| 09 | 23 | 3 | | 75,000 | | | | | | | | | | \$75,000 |
| EQUIPMENT PURCHASE & REPLACEMENT | | | | | | | | | | | | | | |
| 99 | 02 | 1 | 27,000 | 28,000 | 29,000 | 30,000 | 30,000 | 30,000 | 30,000 | 30,000 | 30,000 | 30,000 | 30,000 | \$207,000 |
| 99 | 03 | 1 | 25,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | \$91,000 |
| 99 | 04 | 1 | 20,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | \$30,000 |
| 06 | 03 | 1 | 50,000 | 250,000 | 500,000 | 350,000 | 350,000 | 350,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | \$1,100,000 |
| 08 | 09 | 1 | | 100,000 | 100,000 | | | | | | | | | \$100,000 |
| 08 | 10 | 1 | | | 80,000 | | | | | | | | | \$80,000 |
| 08 | 12 | 3 | | 50,000 | | | | | | | | | | \$50,000 |

| PUMP STATIONS / TANKS / WELLS | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|----|--|---|--|--|--|--|--|--------|---------|--|--|--|--|--|--|--|--|--|-----------|
| 06 | 04 | Hazen's Tank Replacement | 2 | | | | | | | 280,000 | | | | | | | | | | \$280,000 |
| 09 | 12 | Hazen's Tank Fence Upgrade | 2 | | | | | | | 10,000 | | | | | | | | | | \$10,000 |
| 09 | 13 | Crystal Springs Renof and Paint | 1 | | | | | | | 60,000 | | | | | | | | | | \$60,000 |
| 09 | 14 | Crystal Springs Soft Starts 1 & 3 | 1 | | | | | | 25,000 | | | | | | | | | | | \$25,000 |
| 09 | 14 | CSP Pump #2 Rehabilitation | 2 | | | | | | 75,000 | | | | | | | | | | | \$75,000 |
| 09 | 17 | Crystal Springs Emergency Generator | 2 | | | | | | | | | | | | | | | | | 300,000 |
| 10 | 01 | Crystal Springs Check Valve Repair/Replacement | 1 | | | | | | | 100,000 | | | | | | | | | | \$100,000 |
| 06 | 05 | Well Rehabilitation | 2 | | | | | | | 40,000 | | | | | | | | | | \$40,000 |
| 08 | 14 | Alves Tank Recasting, Interior+Exterior | 1 | | | | | | | 300,000 | | | | | | | | | | \$300,000 |
| 08 | 15 | Miramar Tank Interior Recoat + Mixing | 1 | | | | | | | 230,000 | | | | | | | | | | \$230,000 |
| 08 | 16 | Canil Tank Exterior Recoat | 2 | | | | | | | | | | | | | | | | | 150,000 |
| | | Canil Tank Ladder Replacement | | | | | | | | 15,000 | | | | | | | | | | \$15,000 |
| 08 | 17 | El Granada Tank 2 Recoat + Ladder | 2 | | | | | | | 200,000 | | | | | | | | | | \$200,000 |
| 08 | 18 | EG Tank #9 Recasting Interior + Exterior | 2 | | | | | | | 260,000 | | | | | | | | | | \$260,000 |
| | | EG Tank #1 security fence | | | | | | | | 20,000 | | | | | | | | | | \$20,000 |
| 09 | 18 | New Placitos Well | 3 | | | | | | | 23,000 | | | | | | | | | | \$23,000 |
| 09 | 19 | Placitos Canyon Blending Station | 2 | | | | | | | 25,000 | | | | | | | | | | \$25,000 |
| | | Miramar Tank Fence Upgrade | | | | | | | | 100,000 | | | | | | | | | | \$100,000 |
| | | | | | | | | | | 8,000 | | | | | | | | | | \$8,000 |

| DENNISTON WTP PRIORITY (SHORT-TERM) IMPROVEMENTS | | | | | | | | | | | | | | | | | | | | |
|--|----|---|---|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|-------------|
| 08 | 19 | Denmiston Short Term WTP Modifications | 2 | | | | | | | 800,000 | | | | | | | | | | \$1,600,000 |
| 08 | 20 | Denmiston Storage Tank Modification Project | 1 | | | | | | | 686,000 | | | | | | | | | | \$0 |

| DENNISTON WTP (LONG-TERM) IMPROVEMENTS | | | | | | | | | | | | | | | | | | | | |
|--|----|---|---|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|-------------|
| 08 | 22 | Denmiston Pre/Post Treatment Design | 1 | | | | | | | 350,000 | | | | | | | | | | \$350,000 |
| 08 | 23 | Denmiston Pre/Post Treatment Construction | 1 | | | | | | | 900,000 | | | | | | | | | | \$1,800,000 |

| NUNES WTP PRIORITY (SHORT-TERM) IMPROVEMENTS | | | | | | | | | | | | | | | | | | | | |
|--|----|------------------------------------|---|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|-------------|
| 08 | 24 | Nunes WTP Short Term Modifications | 1 | | | | | | | 600,000 | | | | | | | | | | \$1,800,000 |

| NUNES WTP (LONG-TERM) IMPROVEMENTS | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|----|---|---|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|-----------|
| 08 | 26 | Install Air Scour for Filters | 2 | | | | | | | 100,000 | | | | | | | | | | \$100,000 |
| 08 | 27 | Modify Filters for Rate of Flow Control | 2 | | | | | | | 280,000 | | | | | | | | | | \$270,000 |

| WATER SUPPLY DEVELOPMENT | | | | | | | | | | | | | | | | | | | | |
|--------------------------|----|--------------------------------------|---|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|-----------|
| 09 | 21 | Reclamation Project Planning | 1 | | | | | | | 100,000 | | | | | | | | | | \$250,000 |
| 09 | 22 | Water Supply Alternatives Evaluation | 1 | | | | | | | 50,000 | | | | | | | | | | \$50,000 |

Indicates new or modified item on list

| | | | | | | | | | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-------------|-------------|
| FY 10 Totals | | | | | | | | | | \$1,383,000 | \$3,287,000 | \$3,105,500 | \$3,575,500 | \$2,005,500 | \$1,799,500 | \$1,262,000 | \$1,406,000 | \$598,000 | \$1,239,000 | \$152,000 # |
|--------------|--|--|--|--|--|--|--|--|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-------------|-------------|

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David Dickson, General Manager

Agenda: September 8, 2009

Report

Date: September 4, 2009

Subject: Water Reclamation Update

Recommendation:

None. Information only.

Background:

Recent activities and developments in the water reclamation arena include:

- **SAM Board consideration of August 5, 2009 letter to CCWD and SAM:** At their August 24 meeting, the SAM Board discussed the August 5 letter from Bruce Russell of Kenmark/Ocean Colony Partners (OCP) to CCWD and SAM outlining a proposed approach in which CCWD would obtain reclaimed water from SAM and distribute it to OCP. The discussion did not surface any significant objections to the conceptual terms outlined in the letter, and the SAM Board directed staff to continue working with OCP and CCWD staff on the two-month pilot test scheduled to begin in September.
- **Pilot Study Planning:** CCWD, SAM, and OCP staff, along with SAM consultant Tanya Yurovsky of SRT Consultants, have been meeting (August 25 and September 8) to discuss roles and responsibilities for the reclaimed water pilot test. SRT has prepared a Pilot Study Plan which will form the basis for the pilot test permit application to be submitted to the Regional Water Quality Control Board and the Department of Public Health.
- **CCWD Role in Pilot Study:** During SAM's pilot test of a low-pressure membrane filtration process, CCWD will provide reclaimed water to OCP for testing on the golf course. For two months beginning in mid-September, CCWD will rent a 2000-gallon water truck and a 4,500-gallon storage tank for the golf course trial. CCWD staff will pick up water at the SAM plant and deliver it to the storage tank at the golf course.

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David Dickson, General Manager

Agenda: September 8, 2009

Report

Date: September 3, 2009

Subject: Authorization for District to Become a Participating Agency in the Bay Area Recycled Water Coalition

Recommendation:

Authorize execution of the Membership Addendum to the Bay Area Recycled Water Coalition Memorandum of Agreement making the District a Participating Agency.

Background:

As the District works with Sewer Authority Mid-Coastside and reclaimed water customers to develop a water reclamation project, pursuing grant funding from any and all available sources is essential. Joining the Bay Area Recycled Water Coalition (BARWC) is the best way to pursue federal funding available under Title XVI of the Reclamation Wastewater and Groundwater Study and Facilities Act.

BARWC is a group of cities and agencies in the Bay Area working together to represent the regional need for funding for water reuse. They have been successful in obtaining significant federal funding for Participating Agency projects. In FY 2009, Congress appropriated \$11.58 million for the authorized BARWC projects, and BARWC is seeking \$38.02 million in FY2010 funding. Attachment A provides further information on BARWC and the regional reclamation projects.

In order to seek funding for our reclamation project through BARWC, the District needs to become a Participating Agency by executing the Membership Addendum to the BARWC Memorandum of Agreement. The Memorandum and the Addendum are included as Attachment B. Participating agency costs are determined annually and are expected to be \$7,500 - \$10,000 in 2010. We would also need to complete a Title XVI Feasibility Study in order to be eligible for funding.

Fiscal Impact:

\$7,500 - \$10,000, plus feasibility study costs.

From: Quinn, Caroline
To:
Subject: BAY AREA RECYCLED WATER FUNDING OPPORTUNITY

Dear Colleague:

If your agency has a recycled water program, or if water recycling is one of the solutions you are developing for the future, you are invited to become part of the Bay Area Recycled Water Coalition (BARWC). BARWC is an independent group of cities and agencies in the San Francisco Bay Area working together to represent our regional need for funding for water reuse.

BARWC has been successful at receiving Federal Authorization and Appropriation for our program, as well as Federal administration inclusion in the President's budget for 2010.

Authorization Success:

- In 2008, BARWC was acknowledged by Congress with the enactment of Public Law 110-229, which authorized seven new projects for federal funding through the Bureau of Reclamation's Title XVI program.
- In May, The Bay Area Regional Water Recycling Program Expansion Act of 2009 (HR 2442) was introduced in the House and SB 1138 in the Senate to authorize six new BARWC projects for Federal funding. The House Bill was cosponsored by nine members of the Bay Area Congressional Delegation.

Appropriation Success:

- In FY 2009, Congress appropriated \$11.58 million for the authorized BARWC projects.
- We are currently seeking \$38.02 million in FY 2010 appropriations for BARWC projects.

Federal Budget Success:

- \$3 million for BARWC projects is included in the FY 2010 President's Budget request.

BARWC effectiveness is due to our unique regional approach which we developed in response to a request by Sen. Dianne Feinstein that federal appropriation requests submitted to her office be a part of a greater regional solution. This regional approach was subsequently endorsed by the House Appropriations Committee, which stated in their June report, "The committee commends the regional willingness (of the BARWC) to work together in pursuing needed water recycling projects."

BARWC operates in partnership with the Bay Area Clean Water Agencies (BACWA) and is open to any Bay Area agency with a recycled water project that can be considered for authorization or appropriation.

Please see the attached documents for more on how the BAY AREA RECYCLED WATER COALITION works to obtain federal funding:

- Flyer describing the coalition, listing agencies and projects
- The "Ins & Outs" of the Bay Area Recycled Water Coalition
- Expression of Interest/Questionnaire form

Or visit our website at www.barwc.org.

If you are interested in joining the Bay Area Recycled Water Coalition, please email the enclosed Expression of Interest form to Caroline Quinn at carolineq@ddsd.org no later than August 10th.

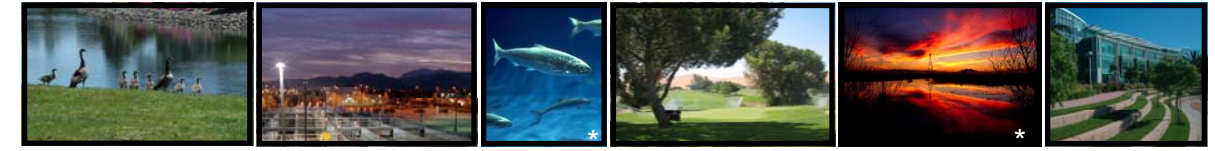
If this email is duplicative, please accept our apologies; we are working from several email lists to make certain we reach out to as many people as possible who have an interest in securing a federal recycle water partnership in the Bay Area. If you know of an agency that may be interested, please feel free to pass this information on to them or provide their name to us to follow-up.

Thank you,

Caroline Quinn, P.E.
Engineering Services Director
Delta Diablo Sanitation District
2500 Pittsburg-Antioch Highway
Antioch, CA 94509
925.756.1900
carolineq@ddsd.org



San Francisco Bay Area Recycled Water Coalition Project Summary



| STATUS | PROJECTS, PARTNERS AND COMMUNITIES SERVED | CONGRESSIONAL DISTRICT REPRESENTATIVES | PROJECT DETAILS | YIELD (acre-feet/year) | | TOTAL PROJECT COST AND (Federal Share) ¹ |
|----------------------------------|--|--|---|-------------------------|---------------|---|
| | | | | PROJECT | FUTURE | |
| Authorized in Public Law 102-575 | South Bay Water Recycling (originally San José Area Water Reclamation and Reuse Program) Phases 1.a, 1.b. and 1.c • City of San José • City of Los Gatos • City of Cupertino • City of Santa Clara • City of Campbell • City of Monte Sereno • City of Milpitas • City of Saratoga | Rep. Jerry McNerney (CA-11), Rep. Fortney "Pete" Stark (CA-13), Rep. Anna Eshoo (CA-14), Rep. Mike Honda (CA-15), Rep. Zoe Lofgren (CA-16) | <ul style="list-style-type: none"> • Facilities: 120 miles of piping, 3 reservoirs, 4 pump stations • Status: Phase 1.a and 1.b. are complete. Phase 1.c. NEPA Pending, in Design | 20,000 | 40,000 | \$ 248 M (\$ 35 M) |
| Authorized in Public Law 110-229 | City of Palo Alto/Mountain View/Moffett Area Water Reuse Project • City of Palo Alto • City of Mountain View | Rep. Anna Eshoo (CA-14) | <ul style="list-style-type: none"> • Facilities: 4.6 miles of piping (backbone of regional system) • Status: Title XVI Feasible, NEPA complete, Construction underway | 1,480 | 3,340 | \$ 21 M (\$ 1.04 M) |
| Authorized in Public Law 110-229 | Pittsburg Recycled Water Project • Delta Diablo Sanitation District • City of Pittsburg | Rep. George Miller (CA-7) | <ul style="list-style-type: none"> • Facilities: 2.5 miles of piping, 1.0 MG storage tank, pump station • Status: Title XVI Feasible, NEPA complete, Construction underway | 615 | 800 | \$ 7 M (\$ 0.36 M) |
| Authorized in Public Law 110-229 | Antioch Recycled Water Project • Delta Diablo Sanitation District • City of Antioch | Rep. Ellen Tauscher (CA-10) | <ul style="list-style-type: none"> • Facilities: 6 miles of piping, 1.1 MG storage tank, pump station • Status: Title XVI Feasible, NEPA complete, Design complete, construction to begin in July 2009 | 530 | 850 | \$ 12.5 M (\$ 1.34 M) |
| Authorized in Public Law 110-229 | Redwood City Recycled Water Project • City of Redwood City • South Bayside System Authority | Rep. Anna Eshoo (CA-14) | <ul style="list-style-type: none"> • Facilities: 2.7 miles distribution piping in Seaport area • Status: Title XVI Feasible, NEPA complete, Construction complete | 245 | 2,000 | \$ 4.6 M (\$ 0.23 M) |
| Authorized in Public Law 110-229 | North Coast County Water District Recycled Water Project • North Coast County Water District • City of Pacifica • San Francisco Public Utilities Commission | Rep. Jackie Speier (CA-12) | <ul style="list-style-type: none"> • Facilities: 3 miles of piping, 0.4 MG storage tank, pump station • Status: Title XVI Feasibility in progress, NEPA pending, Design complete | 170 | 200 | \$ 9.9 M (\$ 2.5 M) |
| Authorized in Public Law 110-229 | South Santa Clara County Recycled Water Project • Santa Clara Valley Water District • South County Regional Wastewater Authority | Rep. Jerry McNerney (CA-11), Rep. Zoe Lofgren (CA-16) | <ul style="list-style-type: none"> • Facilities: 7.6 miles of distribution piping, 3 MG storage tank, 6 MGD pump station • Status: Title XVI Feasibility in progress, NEPA pending, in Design | 1,790 | 2,440 | \$ 28 M (\$ 7 M) |
| Authorized in Public Law 110-229 | South Bay Advanced Recycled Water Treatment Facility • Santa Clara Valley Water District • City of San José • City of Los Gatos • City of Cupertino • City of Santa Clara • City of Campbell • City of Saratoga • City of Milpitas • City of Monte Sereno | Rep. Jerry McNerney (CA-11), Rep. Fortney "Pete" Stark (CA-13), Rep. Anna Eshoo (CA-14), Rep. Mike Honda (CA-15), Rep. Zoe Lofgren (CA-16) | <ul style="list-style-type: none"> • Facilities: 10 MGD microfiltration & 8 MGD reverse osmosis advanced treatment facility • Status: Title XVI Feasibility in progress, NEPA pending, 60% Design | 6,720 | 28,000 | \$ 53 M (\$13.25 M) |
| Seeking Authorization | CCCSD-Concord Recycled Water Project • Central Contra Costa Sanitary District • City of Concord | Rep. George Miller (CA-7), Rep. Ellen Tauscher (CA-10) | <ul style="list-style-type: none"> • Facilities: 2.5 miles of distribution piping and customer connections • Status: Feasibility & NEPA pending, Phase I design complete | 255 | 255 | \$ 7.2 M (1.8 M) |
| Seeking Authorization | Central Dublin Recycled Water Distribution and Retrofit Project • Dublin San Ramon Services District • City of Dublin • Dublin Unified School District | Rep. Ellen Tauscher (CA-10), Rep. Jerry McNerney (CA-11) | <ul style="list-style-type: none"> • Facilities: 4 miles of distribution piping, retrofit of 5 schools, 3 parks and multi-family residential • Status: Title XVI Feasibility in progress, NEPA pending, in Design | 215 | 215 | \$ 4.6 M (\$ 1.15 M) |
| Seeking Authorization | Petaluma Recycled Water Project, Phases 2A, 2B and 3 • City of Petaluma | Rep. Lynn Woolsey (CA-6) | <ul style="list-style-type: none"> • Facilities: 2.2 MG storage tank, 2 miles of piping, 1 pump station • Status: Feasibility in progress, CEQA complete, Design complete | 1,610 | 3,280 | \$ 24 M (\$ 6 M) |
| Seeking Authorization | Central Redwood City Recycled Water Project • City of Redwood City | Rep. Anna Eshoo (CA-14) | <ul style="list-style-type: none"> • Facilities: Extend existing distribution system to west of Highway 101 • Status: Title XVI Feasibility pending, CEQA+ complete | 1,075 | 3,170 | \$ 32 M (\$ 8 M) |
| Seeking Authorization | Palo Alto Recycled Water Pipeline Project • City of Palo Alto • City of Mountain View • City of Los Altos • City of East Palo Alto • Town of Los Altos Hills • City of Menlo Park • Stanford University | Rep. Anna Eshoo (CA-14) | <ul style="list-style-type: none"> • Facilities: 5 miles of pipe and a booster pump station • Status: Facility plan complete, Mitigated Negative Declaration in progress | 1,000 | 1,500 | \$ 33 M (\$ 8.25 M) |
| Seeking Authorization | Ironhouse Sanitary District-Antioch Recycled Water Project • Ironhouse Sanitary District • City of Antioch | Rep. Ellen Tauscher (CA-10), | <ul style="list-style-type: none"> • Facilities: 10 miles of piping and 2 pump stations • Status: Facility planning complete, CEQA+ complete | 3,920 | 6,050 | \$ 28 M (\$ 7 M) |
| | | www.barwc.org | TOTALS | 39,625 | 92,100 | \$ 513 M (\$ 93 M) |

San Francisco Bay Area Recycled Water Coalition An Innovative Regional Water Management Approach



RECYCLED WATER: A National Resource.

Water is an increasingly limited resource that is essential to California, one of the top 10 largest economies in the world. The State can only remain competitive and a strong contributor to the U.S. economy with investment in new water supply. Rather than compete individually for Federal partnerships, Coalition members have agreed to support each other's projects and focus on the regional benefits of developing a new water supply.

Coalition Projects Have Broad Support from California's Bay Area Congressional Delegation and Success Securing Federal Funding

- March 8, 2008:* President Bush signs Public Law 110-229, to provide Title XVI authorization for seven new BARWC projects and to secure appropriations for San Jose.
- March 11, 2009:* President Obama signs the FY 2009 Omnibus Bill, which includes a Federal FY 2009 Appropriation of \$11.58 million for BARWC projects.
- May 7, 2009:* The President's FY 2010 Budget includes a \$3 million request in Reclamation's budget.
- May 14, 2009:* George Miller and 7 Bay Area cosponsors introduce The Bay Area Regional Water Recycling Program Expansion Act of 2009 (HR 2442), to authorize six new BARWC projects under Title XVI.
- May 21, 2009:* Senators Feinstein and Boxer introduce companion Bill S 1138 to authorize BARWC projects.

The San Francisco Bay Area Recycled Water Coalition



www.barwc.org

is a group of public agencies committed to developing recycled water as a resource for the San Francisco Bay Area. The Coalition is committed to pursuing highly leveraged, locally managed projects that will help ensure the security of water supplies in the western United States for years to come.



Protecting the Sacramento-San Joaquin Delta System

The Bay-Delta system comprises the largest estuary on the west coast of North America, and is the source of drinking water for 2/3rds of California (over 23 million people). San Francisco Bay Area recycled water projects benefit the Bay-Delta by reducing water withdrawals and discharges.



Reliable and Drought Tolerant Supplies

California is experiencing a severe drought with below-average rainfall, low snowmelt runoff, and court-ordered restrictions on Delta water withdrawals. Recycled water projects from urban wastewater are reliable long-term sustainable supplies and are the most drought tolerant water supplies that can be developed. Reusing water helps preserve limited river and groundwater supplies.



Regional Partnership Approach

Bay Area agencies have come together in an unprecedented effort to collaborate regionally, rather than compete individually for funding. State and local dollars have been committed to meeting non-Federal shares. Many projects are under construction or in "ready-to-go" status. Projects will provide over 39,000 acre-feet/year of water near-term, and over 92,000 AFY when fully implemented.



Federal Partnership is Key

These projects offer the federal government an opportunity to leverage federal funds for significant benefit. The projects help achieve objectives of the Central Valley Project Improvement Act and the Bay Delta Conservation Plan. By fully funding Reclamation's Title XVI program, Congress can ensure that local communities have the incentive to build a truly sustainable water future for the United States.

* Photo courtesy of California Department of Water Resources

Members

- CITY OF MOUNTAIN VIEW
- CITY OF PALO ALTO
- CITY OF SAN JOSE
- CENTRAL CONTRA COSTA SANITARY DISTRICT
- DELTA DIABLO SANITATION DISTRICT
- SAN FRANCISCO WATER DISTRICT
- NORTH COAST COUNTY WATER DISTRICT
- SANTA CLARA VALLEY WATER DISTRICT
- IRONHOUSE SANITARY DISTRICT
- CITY OF ASTORIA
- CITY OF PITTSBURG
- SOUTH BAY WATER RECYCLING
- SOUTH BAY AREA SYSTEM AUTHORITY

Ins and Outs of Joining Bay Area Recycled Water Coalition

Membership Benefits

Regional Approach to Federal Funding

- Consistent with the direction given by Senator Feinstein and endorsed by the House Appropriations Committee
- United in our goals rather than competing for scarce federal funds
- Dedicated Washington D.C. based lobbyist focused on our program
- Consistent message advocating for our program
- Coordination, collaboration, information sharing
- Shared advocacy costs – economy of scale
- Increased project profile with the Bureau of Reclamation

Organized United Support by Federally Elected Officials

- Collective support of Bay Area Congressional Delegation
- Regionally significant programs – more competitive

Bay Area-Wide Media Outreach

- Joint editorial board meetings
- Endorsement by multiple news publications

Membership Activities on an Annual Basis

Coalition activities are planned and funded on an annual cycle reflecting needs to prepare for and interact in the federal legislative process. The federal advocacy contract is on a calendar year basis, since this dovetails with the legislative cycle. While membership is committed on an annual basis, obtaining federal authorization then appropriation is a two-year minimum, often longer, process.

| | |
|---------------|--|
| June - August | Outreach to new agencies who may wish to join the Coalition. |
| September 30 | Finalize proposed list of BARWC agencies and projects that will seek federal authorization and/or appropriation through the Title XVI program in the following calendar year. To seek a federal appropriation, authorizing legislation for the project must be completed and significant construction planned for completion in the year of the requested appropriation. |
| December 1 | All Participating agencies have obtained necessary internal approvals for cost sharing for the upcoming calendar year. |

Membership Costs

Participating agency costs are determined annually and are expected to be in the range of \$8,500-\$10,000 per project, depending upon the number of projects for 2010.

Membership Obligations

- Sign the Memorandum of Agreement
- Conduct the study and reporting required by Title XVI and work with the Bureau of Reclamation to obtain a determination of feasibility for the project.
- Complete NEPA for the project
- Share costs for advocacy (evenly divided among projects)
- Financial capability to fund the non-Federal share

**MEMORANDUM OF AGREEMENT
BAY AREA RECYCLED WATER COALITION (BARWC)
FEDERAL LEGISLATIVE EFFORTS**

This agreement is made and executed this ___ day of _____, 2008, by and between the City of Mountain View, a Charter City and Municipal Corporation; City of Palo Alto, a Charter City; City of Redwood City, a Charter City; and the City of San Jose, a Municipal Corporation, and administering agency for the San Jose/Santa Clara Water Pollution Control Plant, a joint powers agency formed pursuant to California Government Code section 6500, et seq.; the Delta Diablo Sanitation District (“DDSD”), a County Sanitation District formed pursuant to California Health and Safety Code Section 4700 et seq.; North Coast County Water District, formed under the County Water District Act, California Water Code Section 30000, et. seq.; Santa Clara Valley Water District, a Special District created by an act of the California Legislature, “PARTICIPATING AGENCIES,” and the Bay Area Clean Water Agencies, a joint powers agency formed pursuant to California Government Code section 6500 et seq.

RECITALS

1. WHEREAS, Title XVI of the Reclamation Wastewater and Groundwater Study and Facilities Act of 1992 (also known as Public Law 102-575) authorized a feasibility study of the potential for development of demonstration and permanent facilities to reclaim water in the San Francisco Bay Area, bringing Bay Area agencies together to study opportunities to use recycled treated wastewater for beneficial uses; and authorized the planning, design and construction for the San Jose Water Reclamation and Reuse Program; and
2. WHEREAS, the Bay Area Recycled Water Master Plan, completed in 1999, identified opportunities to use 125,000 acre-feet per year (AF/yr) by 2010, and 240,000 AF/yr by 2025; and
3. WHEREAS, Bay Area agencies have invested nearly \$300 million of local funds in water recycling projects, and many more projects are ready to be built; and
4. WHEREAS, federal funding is essential to support these highly leveraged, locally managed, projects to help ensure the security of water supplies for years to come; and
5. WHEREAS, Public Law 102-575 also provides a program for Federal participation (through cost sharing) in specific water reuse projects up to certain amounts specified in the Act; and
6. WHEREAS, PARTICIPATING AGENCIES have identified 8 projects for which they wish to seek near-term federal funding; and
7. WHEREAS, PARTICIPATING AGENCIES anticipate identifying future projects for which they may wish to secure federal funding; and
8. WHEREAS, federal funding monies will not be available for any authorized project until such funds have been specifically appropriated by Congress; and
9. WHEREAS, Public Law 102-575 requires that projects complete a feasibility determination process administered through the United States Bureau of Reclamation and that specific authority for funding be legislatively granted; and

10. WHEREAS, PARTICIPATING AGENCIES have collaborated in efforts to promote legislation authorizing federal funding for Bay Area recycled water projects; and
11. WHEREAS, the United States House of Representatives on July 23, 2007, passed HR 1526 amending the Reclamation Wastewater and Groundwater Study and Facilities Act of 1992 and authorizing the Bay Area Regional Water Recycling Program and a companion bill was introduced in the Senate on May 24, 2007; and
12. WHEREAS, Senate Bill 2739, the Consolidated Natural Resources Act of 2008, containing the HR 1526 language, was introduced on March 10, 2008 and passed by the full Senate on April 10, 2008; and
13. WHEREAS, PARTICIPATING AGENCIES desire to continue efforts to obtain necessary legislation authorizing federal funding for Bay Area recycled water projects; and
14. WHEREAS, PARTICIPATING AGENCIES desire to collaborate in efforts to promote legislation to appropriate federal funding for authorized projects and for other Bay Area projects that may be authorized in the future.

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL COVENANTS AND PROMISES CONTAINED HEREIN, THE PARTIES DO HEREBY AGREE AS FOLLOWS:

I. DEFINITIONS

1. PARTIES: All Participating Agencies and the Bay Area Clean Water Agencies.
2. PARTICIPATING AGENCIES: Agencies that have recycled water projects authorized through Title XVI of the Reclamation Wastewater and Groundwater Study and Facilities Act of 1992 (also known as Public Law 102-575) or that intend to actively seek congressional authorization and appropriation under the terms of this Agreement, for projects covered under Title XVI, and are party to this Agreement.
3. AUTHORIZED PROJECT: A project that has been enacted into federal law.

II. MEMBERSHIP ELIGIBILITY

Any public agency in the nine-county Bay Area that is developing a recycled water project and has an interest in securing federal participation through Title XVI can become a PARTICIPATING AGENCY upon approval of such membership by a majority of the Parties and execution of the Membership Addendum attached hereto as Attachment 1. Any Addendum must be approved on or before September 30 in order to be effective for the forthcoming calendar year.

III. PARTICIPATION AND ROLES IN FEDERAL LEGISLATIVE EFFORTS

1. The PARTIES hereby agree that Bay Area Clean Water Agencies (BACWA), will be the legal authority to represent PARTICIPATING AGENCIES in pursuit of the Title XVI grants under the Reclamation Wastewater and Groundwater Study and Facilities Act of 1992 (Public Law 102-575), and will act as the regional entity on behalf of PARTICIPATING AGENCIES.

2. The PARTIES agree that BACWA will be listed as the entity submitting the authorization and appropriation requests to members of Congress and that BACWA support of PARTICIPATING AGENCY legislative efforts may include review of and signature on letters of support drafted by PARTICIPATING AGENCIES, and attending hearings and/or meetings with congressional representatives and their staff. BACWA will bill the PARTICIPATING AGENCIES for the costs it incurs for these activities (“BACWA Administrative Costs”) and the PARTICIPATING AGENCIES agree to be individually liable for such BACWA Administrative Costs as provided in Section VI, below. Any documents BACWA requests from a PARTICIPATING AGENCY to support its legislative role will be prepared by the respective PARTICIPATING AGENCY at its own expense.
3. The PARTIES agree that all appropriations requests pursuant to this AGREEMENT shall include language directing USBR to enter into grant agreements with the PARTICIPATING AGENCIES for reimbursement of all eligible costs of the projects designated in the Appropriations Request List developed by the PARTICIPATING AGENCIES pursuant to Section V of this AGREEMENT, in accordance with the pro rata distribution formula set forth in Section VII below. Any agreement required by USBR shall subject to PARTICIPATING AGENCY accepting the terms thereof.
4. PARTICIPATING AGENCIES agree to provide for their own projects all necessary in kind services including providing background information, project or program descriptions, planning, environmental review, federal feasibility documentation and determination, design, construction and coordination, project or program status reports, meeting attendance, review of documents, Board or Council resolutions (if needed), and any other staff support required to support federal advocacy efforts. BACWA shall have no responsibility for provision of any of these services.
5. PARTICIPATING AGENCIES agree that all recycled water projects for which federal participation is sought through Title XVI that meets the terms of this AGREEMENT shall enjoy the same Bay Area wide legislative priority for funding and authorization regardless of project size or congressional district in which the project is located.
6. Each PARTICIPATING AGENCY is committed to securing or assisting in securing the support of its House of Representatives member(s) to actively advocate on behalf of the Bay Area Recycled Water Coalition approach. Each PARTICIPATING AGENCY will request its House of Representative member(s) to place the Bay Area regional recycled water Title XVI requests as a very high priority in order to support and reward the regional approach, even if the list of projects for any given year does not have a project in his/her district.
7. No later than September 30 of each calendar year, PARTICIPATING AGENCIES will select among themselves one Agency to provide federal advocacy outside consulting service for the forthcoming calendar year, including consultant contract management, facilitation and management of meetings and accounting. All PARTICIPATING AGENCIES shall be considered third party beneficiaries of the outside consultant contract and shall be entitled to receive all copies of consultant’s correspondence and reports. The outside consultant shall provide all required lobbying disclosure documentation for each of the PARTICIPATING AGENCIES. Each PARTICIPATING AGENCY agrees to be individually liable for its pro rata share of such consultant costs (“PARTICIPATING AGENCY OUTSIDE COSTS”) as provided in Section VI, below.

IV. DETERMINATION OF PROJECTS FOR AUTHORIZATION REQUESTS

No later than September 30 of each calendar year, PARTICIPATING AGENCIES will determine which projects will be included in the authorization requests for the following calendar year and will create a list of those projects. The list will include any recycled water project located within the nine-county Bay Area where the public agency project sponsor is a PARTICIPATING AGENCY.

V. DETERMINATION OF PROJECTS FOR APPROPRIATION REQUESTS

1. No later than September 30 of each calendar year, PARTICIPATING AGENCIES shall review the status of all AUTHORIZED PROJECTS to determine those projects that will meet both the following criteria: (1) Project has completed or is in the process of completing the Title XVI Feasibility Determination process administered by the United States Bureau of Reclamation; and (2) the funded phase of the project will be completed no later than the end of the federal fiscal year of the appropriation request (i.e. 2009 appropriation requests must be for work that will be completed by September 30, 2009); and project otherwise meets all eligibility requirements for funding under Public Law 102-575 as amended. Projects meeting these criteria will be eligible for inclusion in the list of projects for which a federal funding allocation will be sought.
2. No later than September 30 of each calendar year, PARTICIPATING AGENCIES will determine the final list of projects; the associated project cost for which a federal funding allocation will be sought through the Congressional budget process for the subsequent federal fiscal year; and the percentage share each agency would receive of the total requested appropriation. This list shall be the "Appropriation Request List.
3. Projects contemplated for federal fiscal year (FY) 2009 and FY 2010 appropriation requests are listed in Attachment 2. No later than September 30 of each year, beginning September 30, 2008, the PARTICIPATING AGENCIES will modify Attachment 2 as necessary to select projects meeting the above criteria for future year appropriations requests beginning with the calendar years 2009 and 2010 appropriation requests.

VI. COST SHARING

1. Annually commencing in 2009, PARTICIPATING AGENCIES will pay their pro rata share per project of the cost to carry out PARTICIPATING AGENCY efforts to secure federal funding through Title XVI; this shall consist of the reimbursement of BACWA Administrative and Outside Agency Costs as defined in Section III above. The pro rata cost share attributable to a project for a given year will be determined by dividing the total cost for PARTICIPATING AGENCY efforts by the total number of projects for which authorization and/or appropriation will be sought in the subsequent calendar year. A PARTICIPATING AGENCY that is unable or unwilling to pay federal advocacy costs may request that its pro rata share per project be used for other consultant or administrative costs and, if the PARTICIPATING AGENCY has a lobbyist on retainer in Washington D.C., may direct its Washington D.C. lobbyist to assist in the federal advocacy program; notwithstanding however, that each PARTICIPATING AGENCY shall pay its full pro rata share of the total cost as calculated above.
2. No later than September 30 of each calendar year, the PARTIES will determine the total cost for PARTICIPATING AGENCY efforts for the next calendar year and the pro rata cost share attributable to each project. No later than November 30 of each calendar year, each PARTICIPATING AGENCY will obtain the necessary Board/City Council approval for funding of the next year's costs for its respective project(s).

3. For calendar year 2008, the PARTICIPATING AGENCIES have entered into a separate agreement for payment of their pro rata share per project of federal advocacy costs.

VII. DISTRIBUTION OF FEDERAL FUNDING

1. PARTICIPATING AGENCIES designate BACWA to serve as the legal entity to request amendments to the Reclamation Wastewater and Groundwater Study and Facilities Act of 1992 for the authorized projects.
2. When a federal appropriation is made, in accordance with the Final Appropriation List, BACWA shall inform the United States Bureau of Reclamation (USBR) of the percentage share that each PARTICIPATING AGENCY should receive for its project(s) from the appropriation pursuant to an individual project agreement(s) between the PARTICIPATING AGENCY and USBR. Should the total amount of the federal appropriation be less than the total amount sought for all authorized projects in any given year, each PARTICIPATING AGENCY will receive its percentage share of the lower appropriation, and BACWA shall inform USBR of the percentage shares.
3. BACWA shall have no responsibility and no liability for any PARTICIPATING AGENCY'S performance of its obligations pursuant to its individual project agreement with the United States Bureau of Reclamation. Each PARTICIPATING AGENCY that receives a federal appropriation agrees to hold harmless BACWA from any and all claims, causes of action or liabilities arising from or connected to (1) the PARTICIPATING AGENCY'S acceptance and use of the federal appropriation and/or (2) the project for which the appropriation was received.
4. Neither BACWA nor the PARTICIPATING AGENCIES are required to accept the USBR proposed agreement terms. If USBR requires an agreement with BACWA, the terms of which BACWA cannot agree, BACWA's obligations under this Agreement shall terminate. If the affected PARTICIPATING AGENCIES do not enter into the USBR agreement, the affected Parties' obligations under this Agreement shall terminate.

VIII. DISPUTES

The PARTIES agree to follow this dispute resolution procedure:

1. Informal Conferral. If a dispute related to the interpretation, enforcement, or compliance with the terms and provisions of this Agreement arises, the affected agencies will first attempt to resolve it through informal discussions, which will include the persons identified as Agency Contacts in Section IX below for the affected agencies. If such a dispute cannot be resolved in this matter within fifteen (15) business days, the affected agencies will endeavor to settle the dispute through negotiation.
2. Negotiation. Not more than fifteen (15) business days after the conclusion of the informal conferral, the aggrieved agency shall serve on the other affected agencies (a) written notice of the nature and basis of the dispute, including any amount of money claimed, the provisions of the Agreement at issue, and the facts in support of its position; and (b) a copy of all supporting documents. Within ten (10) business days after service of the notice, the responding agencies shall serve on the aggrieved agency (a) a written response setting out their position, including the provisions of the Agreement relied on and the facts in support thereof; and (b) a copy of all supporting documents. Within ten

(10) business days after service of the response, the affected agencies shall meet to negotiate resolution of the dispute. Each agency's negotiator shall be its general manager or city manager, executive director, or their designee.

3. After negotiation, any affected agency may pursue any available legal remedy. The written notice of the dispute and the written response and all documents produced, but not the subsequent discussion, shall be admissible in any subsequent proceeding.
4. Pending resolution of the dispute, each PARTY must fulfill its payment obligations and other responsibilities under this Agreement.

IX. AGENCY CONTACTS

For each Participating Agency, a contact person is identified below. All communications regarding activities covered by this Agreement will be made to those contact persons. All notices pertaining to this Agreement will be in writing and may be delivered by deposit in the U.S. mail, postage prepaid, addressed in the case of each agency to the contact person listed below:

City of Mountain View
Gregg Hosfeldt, Assistant Public Works Director
500 Castro Street/ P.O. Box 7540
Mountain View, CA 94039-7540

Delta Diablo Sanitation District
Caroline Quinn, District Engineer
2500 Pittsburg-Antioch Highway
Antioch, CA 94509-1373

City of Palo Alto
Daisy Stark, Contract Manager
250 Hamilton Avenue
Palo Alto, CA 94301

North Coast County Water District
Cari Lemke, Assistant General Manager
2400 Francisco Blvd./P.O. Box 1039
Pacifica, CA 94044

City of Redwood City
Roanne Ross, Whitley Burchett & Associates
1777 Oakland Blvd. Suite 200
Walnut Creek, CA 94596

Santa Clara Valley Water District
Pam John, Senior Civil Engineer
5750 Almaden Expressway
San Jose, CA 95118

City of San Jose, South Bay Water Recycling
Eric Rosenblum, Division Manager
c/o City of San Jose Municipal Water System
3025 Tuers Road
San Jose CA 95121

Bay Area Clean Water Agencies
Michele Pla, Executive Director
6114 LaSalle Ave, #456
Oakland, CA 94611-2802

X. AMENDMENTS

This Agreement may be amended by a written document executed by all of the PARTIES hereto.

XI. ENTIRE AGREEMENT

This Agreement contains all the terms and conditions agreed upon by the PARTIES. Except as expressly provided herein, no other understanding, oral or otherwise, regarding the subject matter of this Agreement shall be deemed to exist or to bind any of the parties hereto.

XII. TERMINATION

This Agreement may be terminated immediately at any time by written mutual consent of all PARTIES. Upon provision of written notice of termination to all other PARTIES no later than October 31, a PARTICIPATING AGENCY may terminate its participation in this Agreement effective December 31 of the current calendar year.

XIII. COUNTERPARTS

This Agreement may be executed in multiple counterparts, each of which shall be deemed an original and all of which together shall constitute one and the same Agreement.

EXECUTED AND APPROVED ON BEHALF OF EACH AGENCY AS SIGNIFIED BY THE SIGNATURES BELOW:

PARTIES:

Bay Area Clean Water Agencies:

Michele Pla, Executive Director

Counsel

City of Mountain View:

Kevin Duggan, City Manager

Counsel

City of Palo Alto:

Frank Benest, City Manager

Counsel

City of Redwood City:

Peter Ingram, Interim City Manager

Counsel

City of San Jose:

Debra Figone, City Manager

Counsel

Delta Diablo Sanitation District (DDSD):

Gary Darling, General Manager

Counsel

North Coast County Water District (NCCWD):

Kevin O'Connell, General Manager

Counsel

Santa Clara Valley Water District:

Olga Martin-Steele, Chief Operating Officer

Counsel

Attachment 1- Membership Addendum
Attachment 2 - Appropriation Request

**ATTACHMENT 1
MEMBERSHIP ADDENDUM**

This Addendum to the Memorandum of Agreement for the Bay Area Recycled Water Coalition (BARWC) Federal Legislative Efforts (the "Agreement") is made on (date) _____, by the (name of agency) _____, (the "Agency") a (state legal capacity, i.e. a municipal corporation) _____ for the purpose of becoming a PARTICIPATING AGENCY as that term is defined in the Agreement. The Agreement is incorporated by reference in and made a part of this Addendum.

The Agency acknowledges that it has received a copy of the Agreement and after thorough review of the Agreement desires to become a Participating Agency under the Agreement. The Agreement contemplates the inclusion of Participating Agencies by a process of voluntary execution of this Addendum and a majority vote of the Participating Agencies to approve inclusion of the signatory as a Participating Agency.

The governing body of the Agency certifies that the Agency has a recycled water project authorized through Title XVI of the Reclamation Wastewater and Groundwater Study and Facilities Act of 1992 or intends to actively seek congressional authorization and appropriation, for projects covered under Title XVI.

In consideration for the mutual promises set forth in the Agreement, the governing body of the Agency hereby agrees to accept and perform all duties, responsibilities and obligations required of a Participating Agency as set forth in the Agreement. Further, the governing body authorizes its _____ or his/her designee to sign all documents necessary to implement the Agreement.

The contact person and notice address for the Agency are:

Date _____

(Name of Agency)

By: _____

Chairperson

The Agreement and the Addendum are approved as to form:

By: _____, Attorney for PARTICIPATING AGENCY

ATTACHMENT 2

**MEMORANDUM OF AGREEMENT
BAY AREA RECYCLED WATER COALITION (BARWC)
APPROPRIATION REQUEST**

| ELIGIBLE PROJECT | PARTICIPATING AGENCIES | REQUESTED APPROPRIATION | |
|--|---------------------------|-------------------------|---------------------|
| | | FY 09 | FY 2010 |
| Palo Alto/Mountain View/Moffett Area Water Reuse Project | Palo Alto & Mountain View | \$5,000,000 | |
| Pittsburg Recycled Water Project | DDSD | \$1,750,000 | |
| Antioch Recycled Water Project | DDSD | \$2,250,000 | |
| North Coast County Recycled Water Project (aka Pacific) | NCCWD | \$2,500,000 | |
| Redwood City Recycled Water Project | Redwood City | \$1,100,000 | |
| South Santa Clara County Recycled Water Project | SCVWD | | \$7,000,000 |
| South Bay Advanced Recycled Water Treatment Facility | SCVWD | | \$8,250,000 |
| San Jose Area Water Reclamation and Reuse Project | San Jose | \$8,000,000 | |
| | TOTAL | \$20,600,000 | \$15,250,000 |

**APPROPRIATION REQUEST
PERCENT SHARES for FY 2009**

| ELIGIBLE PROJECT | PARTICIPATING AGENCIES | REQUESTED APPROPRIATION | |
|--|---------------------------|-------------------------|---------------|
| | | FY 09 | Percent Share |
| Palo Alto/Mountain View/Moffett Area Water Reuse Project | Palo Alto & Mountain View | \$5,000,000 | 24.27 % |
| Pittsburg Recycled Water Project | DDSD | \$1,750,000 | 8.5% |
| Antioch Recycled Water Project | DDSD | \$2,250,000 | 10.92% |
| North Coast County Recycled Water Project (aka Pacifica) | NCCWD | \$2,500,000 | 12.14% |
| Redwood City Recycled Water Project | Redwood City | \$1,100,000 | 5.34% |
| San Jose Area Water Reclamation and Reuse Project | San Jose | \$8,000,000 | 38.83% |
| | TOTAL | \$20,600,000 | 100% |

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David Dickson, General Manager

Agenda: September 8, 2009

Report

Date: September 4, 2009

Subject: General Manager's Report

Recommendation:

Information only.

Background:

I would like to highlight the following:

1. **Nunes Water Treatment Plant Short-Term Improvements Bids:** We opened bids on September 1 for the Nunes Short-Term Improvements project, the largest project in the District's Capital Improvement Plan for the current year. We received five bids, all well below the estimated construction cost of \$1.6 million. KG Walters Construction Company was the low bidder at \$1,050,307. Staff anticipates seeking approval to award the contract at the October 13 Board meeting.
2. **Goals for the upcoming year:** I met with the Personnel Committee on August 25 to discuss the process for setting General Manager goals for the upcoming year and for completing the annual review. The Committee would like to schedule a special public Board session in September to focus on goals, then a closed session on October 13 to discuss the review. Staff will contact the Board to schedule the September special meeting.

Monthly Report

To: David Dickson, General Manager
From: Cathleen Brennan, Water Resources Analyst
Agenda: September 8, 2009

Subject: Water Resources Report

This report is provided as an update on water conservation, outreach, and water resources activities.

Estimated Water Savings from Water Conservation Programs

Below is a summary of Water Conservation Program activities for Fiscal Year 2008-2009, along with an estimated total water savings.

| Fiscal Year 2008-2009 | | |
|---|---------------|--------------------------------------|
| Conservation Program | Method | Activity |
| Kitchen Aerator 2.2gpm | give-away | 277 |
| Bathroom Aerator 0.5gpm | give-away | 360 |
| Showerheads 2.5gpm | give-away | 350 |
| Garden Hose Nozzle | give-away | 444 |
| Garden Soft CD-ROM | give-away | 506 |
| Residential High Efficiency Clothes Washers | rebate | 155 |
| Residential Ultra Low Flow Toilets | rebate | 8 |
| Residential High Efficiency Toilets | rebate | 23 |
| School Education (Kits) | Distribution | 131 |
| Landscape Irrigation Report (Sites) | Distribution | 41 |
| Restaurant Table Cards | Distribution | 1900 |
| | | |
| Estimated Water Savings | | 2.04 million gallons per year |

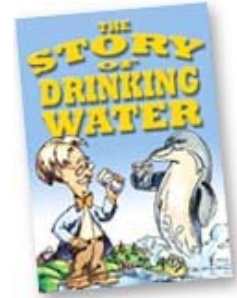
School Education Materials

In addition to the Water Wise School Kits, the District is offering teachers in the service area The Story of Drinking Water, California Water Facts, and The California Water Story. These materials are designed as a resource for teachers to meet curriculum standards and to help students develop an understanding and appreciation of the importance of a safe and reliable water supply. Information is available on the District's website.

The Story of Drinking Water was developed for fourth through ninth grade. Students learn about drinking-water, the hydrologic cycle, water treatment, water pollution and water conservation.

This is a fun and colorful booklet that tells the story of water.

Developed by the American Water Works Association (AWWA).



The California Water Story integrates many subject areas (geography, history, science, math and art) and is designed to help students develop specific skills.

These lessons can be directly correlated to the California State Department of Education curriculum standards for fourth through sixth grades.

Developed by the Water Education Foundation.



California Water Facts

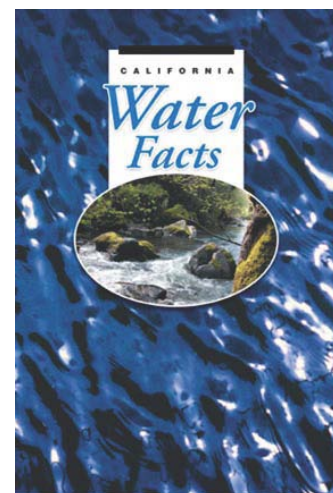
The 12-page, full-color brochure contains eye-catching charts and photos explaining California's surface and groundwater use and delivery system, the state, federal and local water projects, and environmental protection issues.

Alternative water sources such as water recycling, desalination and groundwater recharge are described.

A "Water Trivia" section includes figures on indoor and outdoor household water use, and how much water is used to produce certain foods such as tomatoes, oranges and pasta.

A section on water efficiency in the home and issues such as climate change and water quality are also included.

Developed by the Water Education Foundation.



□ Summary of Meetings

AWWA – Water Conservation Certification Committee – 8/17-19/2009

BAWSCA – New Ordinances Work Group – 8/20/2009

Monthly Report

To: David Dickson, General Manager
From: Cathleen Brennan, Water Resources Analyst
Agenda: September 8, 2009
Subject: Water Shortage and Drought Contingency Plan

This report is provided as an update on the implementation of the Water Shortage and Drought Contingency Plan – Stage 1 (Advisory Stage). The Advisory Stage was implemented in June of 2007. In June of 2008, Governor Schwarzenegger declared a state - wide drought. On February 27, 2009, Governor Schwarzenegger proclaimed a state of emergency due to drought conditions and the resulting water shortage.

√ Local Precipitation

- Water year 2007 was critically dry at 67% of annual historic average.
- Water year 2008 was slightly better at 72% of the annual historic average.
- Water Year 2009 is about 76% of annual historic average.

| Precipitation for Half Moon Bay | | | | | | | | | | | | | | |
|---------------------------------|------|------|------|------|------|------|------|------|------|------|-----|-----|--------|--|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Totals | |
| Historic Average | 1.3 | 3.4 | 3.7 | 5.5 | 4.8 | 3.9 | 1.6 | 0.6 | 0.2 | 0.0 | 0.1 | 0.3 | 25.4 | |
| | 2008 | | | | | | 2009 | | | | | | | |
| Water Year 2009 | 0.48 | 2.39 | 2.63 | 0.93 | 8.70 | 2.79 | .27 | 0.99 | 0.12 | 0.11 | .09 | | 19.50 | |
| | 2007 | | | | | | 2008 | | | | | | | |
| Water Year 2008 | 1.83 | 0.93 | 3.16 | 8.75 | 2.73 | .31 | .16 | .07 | .04 | 0.1 | .12 | .05 | 18.25 | |
| | 2006 | | | | | | 2007 | | | | | | | |
| Water Year 2007 | .19 | 3.18 | 4.24 | .72 | 5.31 | 0.81 | 1.62 | .41 | .07 | .25 | .03 | .19 | 17.02 | |

√ Planning

Staff will continue to work on the following items:

- Drought Ordinance
- Springbrook Software Modifications for Billing
- Rates, Excess Use Charges, and Surcharges
- Billing Statements

√

California Drought an Update: June 2009

Attached to this report is the introduction to the report to the Governor from the Department of Water Resources. This status report is a summary of water supply conditions for California.

The entire report is 98 pages and includes discussions on hydrologic conditions, drought impacts, and emergency proclamations. To view the entire document, go to California's drought website.

http://www.water.ca.gov/drought/docs/Drought_report_30june2009_web.pdf

CALIFORNIA DROUGHT AN UPDATE: JUNE 2009



Cover photo of Mount Shasta in September, 2008
courtesy of Jack Trout, <http://www.jacktrout.com>

FOREWORD

This status report was prepared in response to a commitment to Governor Schwarzenegger that the Department of Water Resources (DWR) will monitor and report on water supply conditions and drought impacts.

Following a dry 2007 and 2008, California is now in its third year of a drought. These years also mark a period of unprecedented restrictions in State Water Project and federal Central Valley Project (CVP) diversions from the Sacramento-San Joaquin Delta to protect listed fish species. Together, these factors are having a significant impact on the ability to meet the state's water supply needs.

Drought impacts from this year's water shortages are most severe in the west side of the San Joaquin Valley. CVP deliveries for that area are at 10 percent of contractors' allocations this year, following deliveries of 40 percent in 2008 and 50 percent in 2007. The resulting water shortages are causing major economic impacts to agriculture and communities that depend on agriculture for employment. Demands for social services – food banks and unemployment assistance programs – have stretched the ability of local agencies to respond, as described in the Governor's recent request for a presidential declaration of major disaster in Fresno County.

One conclusion that is evident from this review of year-to-date conditions is the importance of preparing for the possibility of a dry 2010. DWR will continue to monitor water supply conditions and drought impacts to identify any necessary supplemental response actions this year and will move aggressively forward to plan for a potentially dry 2010 in coordination with other state, federal and local agencies and the water community.



Lester A. Snow

Director, Department of Water Resources

STATE OF CALIFORNIA
Arnold Schwarzenegger, Governor

THE NATURAL RESOURCES AGENCY
Mike Chrisman, Secretary for Natural Resources

DEPARTMENT OF WATER RESOURCES
Lester A. Snow, Director

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ACRONYMS

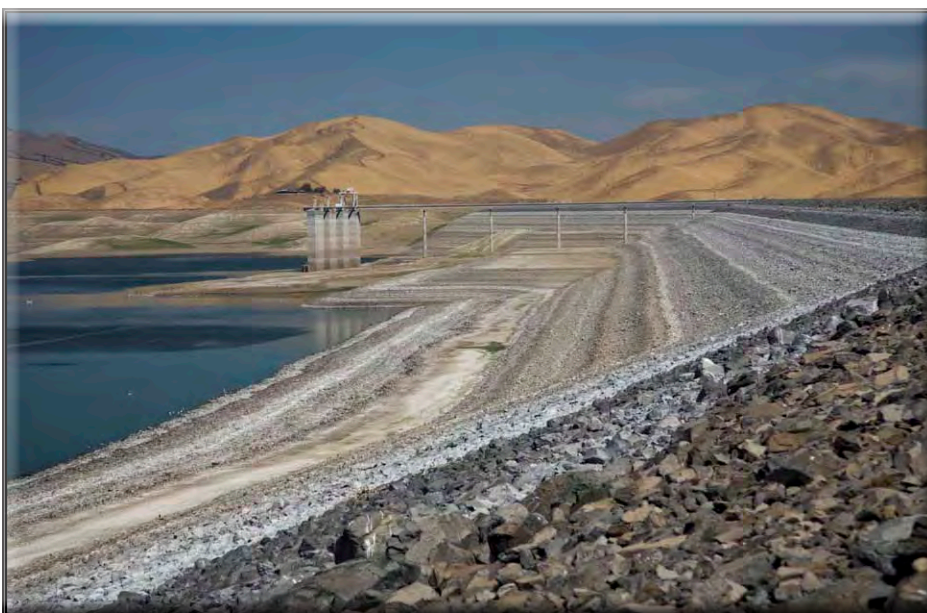
| | |
|-----------|---|
| ACWA | Association of California Water Agencies |
| AF | acre-feet |
| Bay-Delta | San Francisco Bay-Sacramento-San Joaquin River Delta |
| BLM | U.S. Bureau of Land Management |
| CAL FIRE | California Department of Forestry and Fire Protection |
| CALEMA | California Emergency Management Agency |
| CALFED | California-federal Bay Delta Authority |
| CDPH | California Department of Public Health |
| CVP | Central Valley Project |
| CVPIA | Central Valley Project Improvement Act |
| Delta | Sacramento-San Joaquin River Delta |
| ENSO | El Niño-Southern Oscillation |
| FERC | Federal Energy Regulatory Commission |
| GRACE | NASA's Gravity Recovery and Climate Experiment |
| MAF | million acre-feet |
| MWD | Metropolitan Water District |
| NMFS | National Marine Fisheries Service |
| NWS | National Weather Service |
| SCWA | Sonoma County Water Agency |
| SWP | State Water Project |
| SWRCB | State Water Resources Control Board |
| TAF | thousand acre-feet |
| USACE | U.S. Army Corps of Engineers |
| USBR | U.S. Bureau of Reclamation |
| USDA | U.S. Department of Agriculture |
| USFWS | U.S. Fish and Wildlife Service |
| USGS | U.S. Geological Survey |
| UWMP | Urban Water Management Plan |

CHAPTER 1. INTRODUCTION

The purpose of this report is to assess 2009 mid-year drought conditions and status, in response to a commitment made to the Governor's Office as part of implementation of the February 27, 2009, proclamation of a state of emergency for statewide water shortage. The focus of this report is on water supply conditions and related information for the year to date, together with initial review of drought impacts, where that information is available. A subsequent report will cover impacts through the end of the year and provide further detail for the entire year. Certain impacts of a third consecutive dry year will not be apparent until a late fall timeframe; year-end 2009 statistics for many sectoral impacts will not be available until 2010.

Water year 2007 was dry statewide, following a wet 2006. Water years 2008 and 2009 have continued the dry trend. Water years 2007-09 represent the 12th driest three-year period in the state's measured hydrologic record, based on the 8-station precipitation index discussed with figure 1. Water years 2007-09 also mark a period of unprecedented restrictions in State Water Project (SWP) and federal Central Valley Project (CVP) diversions from the Sacramento-San Joaquin River Delta (Delta) to protect listed fish species, a regulatory circumstance that significantly exacerbates the impacts of hydrologic drought for customers of those water projects.

The impacts of a single dry year such as 2007 on water supplies are normally minimal from a statewide perspective (see CDWR, 2008). However, the devastating wildfires that laid siege to Southern California that year—characterized as some of the costliest and most damaging in



Low San Luis Reservoir levels in summer 2008 reflect the use of stored water to compensate for reduced ability to export water from the Delta

U.S. history—were a reminder that vulnerability to drought extends beyond impacts to developed water supplies. Subsequently, a dry 2008 combined with restrictions in SWP and CVP diversions from the Delta in response to court-mandated implementation of an interim remedy to protect Delta smelt, led to the issuance of Executive Order S-06-08 and a Governor’s emergency proclamation for selected Central Valley counties (see Appendix) in June 2008.

In addition, a new U.S. Fish and Wildlife Service (USFWS) biological opinion for Delta smelt released in December 2008 called for measures that would result in an estimated 20 to 30 percent reduction in SWP and CVP Delta diversions on average. Observed precipitation in January 2009 was only about one-third of average, indicating that the threat of a third dry year was already a possibility. These conditions, coupled with statewide reservoir storage approximately 65 percent of average, led to the Governor’s proclamation of a statewide water shortage state of emergency in February 2009 (see Appendix). Among other things, the proclamation directed the Department of Water Resources (the Department) to provide the Governor with an updated report on the state’s drought conditions and water availability by March 30, 2009, to allow the Governor to determine if additional orders should be issued to mitigate emergency conditions. In its March report to the Governor, the Department found that improved hydrologic conditions obviated the need for additional orders at that time, but the Department committed to preparing additional evaluations—such as this 2009 mid-year status report—to monitor the need for further mitigation of emergency conditions.

When is a Shortage of Water a Drought?

Drought is a gradual phenomenon. There is no universal definition of when a drought begins or ends. Impacts of drought are typically felt first by those most dependent on annual rainfall—ranchers engaged in dryland grazing, rural residents relying on wells in low-yield rock formations, or small water systems lacking a reliable water source. Drought impacts increase with the length of a drought, as carry-over supplies in reservoirs are depleted and water levels in ground water basins decline. Hydrologic impacts of drought may be exacerbated by regulatory or administrative requirements that place restrictions on a water purveyor’s operations to protect environmental resources or to satisfy the rights of senior water rights holders.

Defining when drought begins is a function of drought impacts to water users. Hydrologic conditions constituting a drought for water users in one location may not constitute a drought for water users in a different part of the state or with a different water supply. California’s extensive system of water supply infrastructure—its reservoirs, managed groundwater basins, and inter-regional conveyance facilities—mitigates the effect of short-term (e.g. single year) dry periods. Individual water suppliers may use criteria such as rainfall/runoff, amount of water in storage, decline in groundwater levels, or expected supply from a water wholesaler to define their water supply conditions. Criteria used to identify statewide drought conditions—such as statewide runoff and reservoir storage—do not address these localized impacts.

MONTHLY REPORT

To: David Dickson, General Manager
From: Joe Guistino, Superintendent of Operations
Agenda: September 8, 2009

Report
Date: September 1, 2009

Monthly Highlights

Short Term Improvement Project (STI)

K.G. Walters Construction Co. Inc. was the low bid for the STI at \$1,050,307. This project is expected to get started in November.

Denniston Rehabilitation

After 5 years of negotiations, posturing and tactical timing, we have finally received permission to dredge the reservoir from the California Department of Fish and Games. Dredging will take place during the first weeks of October.

Denniston Water Storage Tank Operation

Our present method of operating Denniston Water Treatment Plant (WTP) with pre chlorination would prevent us from complying with the new Disinfection By-Product Rule. We were unable to cut the chlorine dosage or the location because of disinfection requirements. With the modifications of this tank, we can now remove most of the organics prior to chlorination and may be able to comply with the new regulations.

Source of Supply

Crystal Springs Reservoir was the main source of supply for the month of August.

Systems Improvement

Beautification

-Treatment and Maintenance Staff cleaned up the generator room and laboratory at Nunes WTP and Crystal Springs PS. Miramar vault was also cleaned out in preparation for site improvements.

-Spring Cleaning in the maintenance shop and yard this month.

2" Water Main Abandoned

On 7 August, crews completed the transferal of 4 meters from an old 2" galvanized water main that ran between properties between Main and Johnson Streets to the 16" main on Main Street. This old 2" line was abandoned and physically separated from the rest of the distribution grid.

Radio Base Stations

We installed 3 new radio base stations in August: Denniston and Nunes WTPs and Crystal Springs Pump Station (PS).

Other Improvements

- Removed, replaced and properly disposed of burnt out fluorescent light tubes from District sites.
- Treatment Staff plumbed up a new post chlorination application point at Nunes WTP. This will assist the District in compliance with the Disinfection By-Products Rule while maintaining proper and optimal disinfection to the finished water.
- Treatment staff removed an I-Beam that was damaged during a chemical delivery to Nunes WTP.

Safety

Staff installed some emergency safety lighting in the Nunes WTP generator room.

Update on Other Activities:

Meter Replacement Program

Crews replaced 8 meters in August. Five were new meters installed in the 400 block of Main Street when abandoning the 2" main between Main and Johnson Streets as part of the City's Sidewalk Upgrade Project. We installed a first time meter for the District, replaced the meter for the irrigation at the moon statue and one was an upgrade of a 2" meter on highway 92 that was never fitted with an AMR device.

Hazen's Tank

We have installed a pressure recording device on the hydrant below Hazen's Tank to assess the influence of this tank on neighborhood pressure at peak demands. This is a preliminary investigation as to the actual need for the tank as well as to plan for replacement.

Highway 92 Easement

This topic refers to the expired temporary easement for the 2" main that supplies water to the Spanishtown area of Highway 92. The City of Half Moon Bay (HMB) will sell us an easement for the portion of their property that they are conceding to Cal Trans as part of the Main Street Widening Project. They will be ceding the easement to the District at the 15 September City Council meeting. The cost of the permanent easement is \$10,000.

Unidirectional Flushing Program

Brown water incidents have increased during episodes of fire hydrant usage, indicating that our mains must be flushed of oxidation products of iron and manganese as well as of any biofilms that have developed. The most efficient way to flush mains using the least amount of water is a unidirectional flushing program. This type of flushing isolates mains so that all water flow is directed down one main to the discharge hydrant at a high velocity instead of down multiple mains at a lower

velocity. Although more operator intensive and time consuming, it is the Best Management Practice (BMP) for main flushing, resulting in using significantly less water than a conventional flushing program and with far superior cleaning. I have started on the daily worksheets for flushing, which will occur during the rainy season. We shall notify the public prior to starting the program. I will be giving a talk at the Fall American Water Works Association (AWWA) Conference in Las Vegas on our planning efforts and unidirectional flushing in general.

Canada Cove

The first ever water service agreement has been drafted for Canada Cove Mobile Home Park as part of the installation of the fire meter and destruction of their old storage tank. At present we await their signatures.

Denniston Water Storage Tank Operation

The new configuration for the Denniston Water Tank was working as expected until the Denniston WTP was shut down in July due to lack of water and high turbidities. I am preparing a presentation for the Cal/Nev Section AWWA on the modifications that we made and how they are expected to reduce the Trihalomethane (THM) formation at a vulnerable spot in the distribution system in El Granada. We are presently working with the Department of Public Health (DPH) as to disinfection credits that we may claim for this tank.

Nunes Septic Tank

We located the septic tank at Nunes WTP and finally pumped it out. It has never been pumped.

Reclaim Water Pilot

Staff has made arrangements to provide a water truck for transport of reclaim water to Ocean Colony Golf Links during the pilot program. Some of the Maintenance Staff have studied and received their tank endorsements on their driver's license in preparation of this task. At this time water tank trucks are in scarce supply due to their use for the wildfires in southern California and Auburn.

Safety/Training/Inspections/Meetings

Meetings Attended

- 4 Aug - Denniston Return Washwater and Alternate Treatment Design Meeting with Kennedy Jenks.
- 6 Aug - O&M Staff meeting
- 7 Aug - Met with Eddie Andreini and District Staff to discuss Mr. Andreini's new water service to his property adjacent to the Nunes WTP.
- 12 Aug - Safety Committee Meeting
- 13 Aug - Met with Tom Davenport with County Public Works to discuss conditions of paving on San Carlos Street in El Granada
- 18 Aug - John Davis, Jack Whelen and I were given a demonstration on the City of Santa Cruz's Automatic Meter Reading (AMR) system that uses sensus radios with sensus meters.

- 20 Aug – Bay Area Superintendent Meeting in District conference room. Superintendents from Marine Municipal Water District, City of Benicia, City of Pittsburgh, City of Martinez, Zone 7 Water District, Alameda County Water District, Santa Clara Valley Water District, San Jose Water Company and San Francisco Public Utilities Commission were in attendance.
- 21 Aug – Met with JMB representative at the Pilarcitos Culvert Project site.
- 27 Aug – Pre bid meeting for the Nunes STI Project.

Safety Meeting and Training

The Safety Committee met in August to discuss the status of our Emergency Operations Plans. CCWD is in the process of updating our Emergency Communications Plan and should be complete by October.

Safety Training in August was on office ergonomics.

AWWA Leadership Award

The Cal/Nev Section AWWA will be honoring me with the Section Leadership Award for my services as Chair of the Water Quality Division. I will be receiving this honor at the Fall Conference in October.

Department of Public Health (DPH)

Denniston Tank CT Credits

We have supplied the DPH with updated CT calculation spreadsheets as well as an SOP on how to assure that CT is always met. We are now in discussion about reducing the THM formation potential at the Nunes WTP by switching to post chlorination only. This will be done through monitoring of the Half Moon Bay Tanks with an on line chlorine analyzer.

Projects

Tank Recoating Projects

The Notice To Proceed was sent to Crosno Construction, the contractor for the Miramar Tank job. All contracts, insurance and submittals have been signed and received. The coating submittals are all in order. Staff is reviewing the mechanical submittals at this time. We are presently draining the tank and mechanical work is expected to start on the week of 14 September.

Short Term Improvement Project

Bids were opened on 1 September. The low bidder was K.G. Walters Construction Co. Inc. for \$1,050,307. There were 5 bids with the following amounts:

| | |
|---|--------------|
| KG Walters Construction Co Inc. | \$1,050,307 |
| Anderson Pacific Engineering Construction, Inc. | \$1,060,000. |
| Pacific Infrastructure | \$1,080,000. |
| R.E. Smith Contractor, Inc. | \$1,158,0 |
| CNB Corporation | \$1,323,480. |

Denniston Rehabilitation

We have received the streambed alteration agreement from Fish and Games and the project is presently out to bid. The bids will be opened on Tuesday, 8 September.

The spoils site has been surveyed so that the contractor can set up waddles at the boundary.

Denniston Alternative Intake Project

Staff was pleased with the engineering design by Carollo and will try and coordinate in house intake modifications with the dredging project.

Pilarcitos Canyon Culvert Repair Project

This project is out to bid. The bids will be opened on Wednesday, 2 September at 14:00. We solicited bids for the biologist to meet the conditions for mitigated negative declaration and have selected a candidate. The biologist will also be working on the monitoring of the Denniston Dredging Project.

Pilarcitos Canyon Blending Project

Consultant Kennedy Jenks is finalizing the design and preparing the bid specifications for this project. District will hire an electrical firm to supply power to the site by the time construction will start.

Denniston Alternative Treatment Project

Staff met with the consultant Kennedy Jenks on 4 August to discuss alternative designs for solids removal and disposal. We directed them to proceed with a design that we felt was most cost efficient and carried the best methods for sludge drying in the simplest way possible.

Nunes Filters 3&4 Replacement

The Notice To Proceed was sent out in August and the materials delivered to the plant site. Replacement will not start until water demands go down, most likely in December.

Well Rehabilitation Project

Pump Repair Inc. is working on Pilarcitos Well #1. We should have it operational with an additional 75 - 100 gpm by the start of the next rainy season.