

LEE LAKE WATER DISTRICT

Water System Facility Requirements

AUGUST 2008

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LEE LAKE WATER DISTRICT
WATER SYSTEM FACILITY REQUIREMENTS
AUGUST 2008

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WATER SYSTEM FACILITY REQUIREMENTS
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SECTION I - INTRODUCTION

A. GENERAL

The Lee Lake Water District was formed in 1965 as a California Water District in order to provide water and wastewater service to properties within the 1-15 corridor north of Lake Elsinore and South of the City of Corona.

One of LLWD's responsibilities is the delivery of potable water to its customers. LLWD receives all of its water from Western Municipal Water District (WMWD) via WMWD's Mill's Pipeline which receives treated imported State Water Project water through the Mills Filtration Plant located on Allesandro Boulevard in Riverside.

The other responsibility of the District is to provide wastewater service through the collection, treatment, and disposal of sewage produced within the District boundary. Currently, the District operates one wastewater treatment facility called the Lee Lake Water Reclamation Facility (LLWRF) with a treatment capacity of 1,580,000 gallons per day. The LLWRF is capable of producing reclaimed water suitable for landscape irrigation uses in compliance with Title 22 of the State Department of Health Services.

The District owns and operates many miles of water transmission and wastewater collection facilities within the District boundaries in order to convey water and wastewater to their respective endpoints.

B. REQUIREMENTS

- 1 Developer shall design, construct, and dedicate to Lee Lake Water District the secondary water facilities in accordance with the requirements of Lee Lake Water District.
- 2 Developer shall provide all financial arrangements necessary to plan, design, and construct the project.
- 3 Developer shall obtain and dedicate water utility right-of-way to Lee Lake Water District. Water facilities must be in either dedicated road right-of-way or in easements granted to Lee Lake Water District.
- 4 Developer shall pay current applicable fees (refer to District's Rates and Charges) in addition to completing those requirements listed above. Fees may include: Plan Checking Fees, Connection Charges, Inspection Fees, Added Facilities Charges, Main Participation Charges or Primary Facilities Fees, Service Connection Fees, and Meter Charges. District staff should be consulted for current and applicable fees.
- 5 Lee Lake Water District will review all drawings, and may revise, modify, or require redesign of any concepts, drawings, or detail submitted. All concepts and drawings must be approved by the District's Engineer.

- 6 The Developer shall provide the District with a corrosion site survey for all CML/CMC steel pipelines. If required by District, the Developer shall have a cathodic protection design performed by a qualified engineer.
- 7 Procedures for development of water systems are similar for Tract Map developments, Parcel Map developments, and single lot main extension developments. Most procedures and design requirements herein have been prepared for Tract Map developments, but certain portions apply to all water system development work within Lee Lake Water District's service area.
- 8 When applicable, the Developer shall also submit for review all improvement drawings within existing or future public rights-of-way for approval by the County of Riverside Engineering Department. All plan check, inspection and permit fees required by the County shall be paid, and all other requirements of the County shall be fulfilled prior to any construction within the public rights-of-way.

SECTION II
PROCEDURES
CONSTRUCTION DRAWING APPROVAL

A. CONSTRUCTION DRAWINGS APPROVAL

District staff will review all water construction drawings and may revise, modify, or require redesign of any concepts, drawings, or details submitted. All concepts and drawings must be approved by District staff. Construction must begin within one year of approval of Water Construction Drawings. If more than one year has elapsed, the project must go through plan check procedure again before starting construction. The steps required to obtain Water Facilities Construction Drawing approval are as follows:

- a. Submit Water Service Application and Plan Check Deposit.
- b. Submit Tract Water System and Hydraulic Network Analysis.
- c. Submit first plan check.
- d. Submit subsequent plan checks.
- e. Submit original Construction Drawings for approval.
- f. Provide District with drawings.

A flowchart for Construction Drawing Approval is shown in Appendix "A". A plan check status sheet to be used by District staff is shown in Appendix "B". Each required step is discussed in detail below:

1. Submit Water Service Application and Plan Check Deposit: The Water Service Application (available from the District) shall be completed and filed with the Customer Services staff. The plan check deposit shall be submitted with the completed application. A copy of the Water Service Application is shown in Appendix "C".
2. Submit Tract Water System and Hydraulic Network Analysis: Approximately one week after receiving the completed water services application and the plan check deposit, District staff will provide hydraulic grade elevation at connections to the District system. District staff may, in addition, provide design recommendations for the water system.

Based on hydraulic grade elevations and design recommendations provided by the District, Developer shall submit to the District the following:

- a. One copy of the County of Riverside Conditions of Approval.
- b. Two copies of a master plan of the Tract with the proposed water facilities superimposed on same. Said plan shall show the node network,

pipeline diameters, length, elevation at nodes, valve locations, and fire hydrant locations.

- c. Two copies of the hydraulic network analysis of the proposed water system.
- d. Fire flow letter from the appropriate fire protection agency, Riverside County Fire Department, or California Division of Forestry.

Details regarding hydraulic network analysis are included in Section III, Design Criteria.

District staff will review the Tract Water System and the hydraulic network analysis and return one set with comments to the Developer. Minor revisions may be incorporated in the first plan check submittal. If major revisions are required, the Tract Water System and hydraulic network analysis shall be resubmitted until approved by District staff.

3. Submit First Plan Check: After review and approval of Tract Water System and hydraulic network analysis, Developer shall submit the following for plancheck review and approval:

- a. Two copies of the water construction drawings. Water and sewer drawings should be combined and shown on the same drawings whenever possible.
- b. One copy of the sewer construction drawings. (Required when water and sewer aren't shown on same drawings).
- c. One copy of the street improvement drawings.
- d. One copy of the grading plan.
- e. One copy of the approved Tract Water System and hydraulic network analysis.
- f. Two copies of easement documents.
- g. One copy of Tract/Parcel Map.
- h. Corrosion Site Survey (for Steel Pipe Only)
- i. Copy of receipt showing submittal to County for plan check of facilities within public rights-of-way.

Construction Drawing plancheck submittals must be complete or they will be rejected. Each submittal shall include a transmittal listing all items submitted and referencing the District project number and account number.

Details regarding waterline design criteria are included in Section III, Design Criteria. Details regarding preparation of construction drawings and easement documents are included in Section IV, Construction Drawing Preparation.

The District will provide redline comments on one set of the water construction drawings and return same to Engineer for revisions. The goal of the District staff is to complete the first plan check within three weeks of receipt of submittal. Plan review time varies depending on the number of plans in the review process, size of project, complexity of plans, and completeness of drawings.

4. Submit Subsequent Plan Checks: For each subsequent plan check, Developer shall submit the following:
 - a. Previous District redlined plan check set and copy of previous District transmittal.
 - b. Two copies of revised water construction drawings.
 - c. Two copies of easement documents.
 - d. Any additional material requested.
 - e. One copy of revised submittal showing County comments for facilities to be installed in public rights-of-way.

Submittals must be complete or they will be rejected. If drawings and easement documents are not yet satisfactory, District will make comments on one set of the drawings and easement documents and return same to Engineer for revisions. This procedure will be repeated as necessary until drawings and easement documents are complete. If Engineer does not return previous District plan sets, then plan check procedure will start from the beginning including payment of plan check deposit.

Each cycle of the subsequent plan check would normally be completed in approximately three weeks.

5. Submit Original Construction Drawings for Approval: After all plan checks are completed and the water construction drawings are acceptable to the District, the original drawings shall be submitted to the District for signature. Prior to District approval of the water construction drawings, Developer shall pay all remaining plan checking fees and submit:
 - a. Previous District approved plan check set and one copy of revised water construction "As Built" drawings.
 - b. Copy of tentative tract/parcel map showing dedications of streets for road purposes and public utilities purposes,

or
 - c. Executed Grant of Easement, minimum width of 20 feet.
6. Provide District with Drawings: When drawings have been fully approved by all agencies, the Developer shall provide the District with a clean set of photo mylars and three sets of bluelines for District's use.

SECTION III
DESIGN CRITERIA

Water systems for inclusion into the District's service area shall be designed in accordance with the District's Standard Specifications and Standard Drawings for Water and Sanitary Sewer Facilities for Lee Lake Water District, dated January, 2006 or latest revision, and the following criteria:

A. HYDRAULIC NETWORK ANALYSIS CRITERIA

The District reserves the right to determine the criteria for each water system or sub-system based upon conditions that may exist for that particular location, anticipated level of development, planned use, or other criteria. In general, however, the water system shall be sized to handle the highest demand within the general area of the tract and shall conform to the following minimum standards:

1. Pipeline Diameters: The minimum pipeline diameter is 8-inches.

Acceptable pipe diameters: 8", 10", 12", 14", 16", 20", 24", 30", 36", 42", 48".
Other sizes will be considered on a case by case basis.
2. Pipeline Friction Factors for Approved Materials: Pipeline friction factors shall be as follows:

<u>Pipe Material</u>	<u>Hazen-Williams Coefficient</u>
Cement Mortar Lined Steel Pipe	C=130
Cement Mortar Lined Ductile Iron Pipe	C=120
Polyvinyl Chloride Pipe (PVC) 900	C=130

3. Water System Unit Demands: Average Day unit demands shall be as follows:

<u>Land Use</u>	<u>Average Day unit Demand Factors</u>
<u>Specific Plan</u>	Determined On Case by Case Basis
Residential	650 GPD/DU
Commercial	2,500 GPD/AC
Business Park/Industrial	2,500 GPD/AC
Park/Golf Course/Resort Commercial	2,500 GPD/AC
School	2,500 GPD/AC
Open Space	2,500 GPD/AC

4. Peaking Factors: The peaking factors to be used, are as follows:
 - a. Maximum Day Demand: For all zones, the Maximum Day Demand shall equal 1.75 times the Average Day Demand.
 - b. Peak Demand: For all zones, the Peak Demand shall equal 3.4 times the Average Day Demand.
5. Fire Flow: The fire flow requirements shall be in accordance with the applicable standards of the Insurance Services Office (ISO) and shall be those required by Riverside County Fire Department, or California Division of Forestry for the type of development under consideration.
6. System Analysis: The proposed water system shall be analyzed for the following two conditions:
 - a. Peak Demand Flow
 - b. Maximum Day Demand plus Fire Flow

For the Peak Demand flow condition, the pressure at each node shall be designed for 50 psi minimum. A minimum pressure of 40 psi may be allowed if static pressure is less than 60 psi. The maximum pressure at each node shall be 125 psi. The maximum velocity in the pipeline shall be 5 feet per second.

For the Maximum Day Demand plus fire flow, the pressure at each node shall be a minimum of 20 psi and a maximum of 150 psi. The maximum velocity in the pipeline shall be 10 feet per second. Fire flow should be taken from the hydrant furthest from the connection(s) to the District's distribution system, at the highest system elevation, and as directed by District.

B. WATER CONSTRUCTION DRAWING DESIGN CRITERIA

1. Pipeline Location: Unless otherwise approved by the District, all waterlines shall be located on the south or west side of the street, 7 feet off of curb face or berm per the Riverside County Road Department standards. Location is not to interfere with other existing utilities.

Pipe joint deflection shall not be more than manufacturer's recommended offset in a curved alignment. Joint deflection angles shall be indicated on all horizontal and vertical curves.

Waterline installation near sewer lines shall be in accordance with State Department of Health Services, Criteria for the Separation of Watermains and Sanitary Sewers. In general, waterlines should cross perpendicular to sewer lines a minimum of 1 foot above the sewer. If a waterline crosses beneath a sewer or stormdrain then it should have a minimum separation of 1 foot, and have no joints within 10 feet of each side of the sewer or stormdrain and shall be constructed of materials per aforementioned criteria. Waterlines parallel to sewer lines shall be located a minimum of 10 feet clear space from the sewer line.

When crossing other utilities, provide a minimum of one foot vertical clearance.

2. Minimum Pipe Cover: The minimum cover over the top of pipe shall be 42-inches from finished road grade, and shall provide adequate depth so that gate valve stems and operating nuts have 12-inch clearance to finished road grade. When minimum cover cannot be provided, concrete encasement or protective slab construction over the pipeline may be considered.
3. Pipe Materials: Unless otherwise authorized by District, all waterlines larger than 12 inches diameter shall be cement mortar lined and cement mortar coated steel pipe in accordance with District standards. All waterlines 12 inches and smaller shall be Polyvinyl Chloride Pipe in (PVC C900 CL200 min.) accordance with District standards unless conditions dictate the use of CML/CMC steel pipe.
4. Pipe Slope: Minimum slope of waterlines shall be 0.5% unless otherwise authorized by District. Pipe Slopes of 15% or greater shall be installed with cut off walls as approved by the District Engineer.
5. Valves: Buried valves 12 inches and smaller shall be resilient seated gate valves per District standards. Buried valves 16 inches and larger shall be plug valves per District standards. Valves 24 inches and larger shall have a bypass valve installed around the mainline valve. Valves shall be the same size as nominal pipeline diameter.

In general, three valves shall be installed on each tee and four valves shall be installed on each cross. However, the District maintains the right to add or subtract valves to facilitate efficient system operation. Valves shall be spaced at 1,000 foot maximum intervals or as directed by District staff.

Where possible, valves shall be arranged so that no more than two fire hydrants will be shut-off at one time when a waterline is shut down for repairs.

6. Fire Hydrants: Fire hydrants shall be in accordance with District standards, constructed at right angles to the waterline.

Fire hydrants shall be located per the requirements of the Riverside County Fire Department as stated in the Tract Conditions of Approval but no greater than 1000 foot intervals.

7. Air Valves: Air valves shall be combination air vacuum and air release valves in accordance with the District standards, constructed at right angles to the waterline.

Air valves shall be located at all high points of pipeline and downgrade of valves. Minimum size of air valves shall be 1-inch and shall be sized per manufacturer's recommendation.

8. Blowoffs: Blowoffs shall be in accordance with District Standards, located at right angles to the waterline. Where possible, fire hydrants shall be used in place of blowoffs.

Blowoffs shall be located at all low points of the pipeline at all dead-ends or terminal points, and upgrade of valves. Minimum size of blowoffs shall be 4-inch. Consult with District staff regarding required size.

9. Water Services: Water services shall be in accordance with District standards, constructed at right angles to the watermain. Service laterals can not be placed directly on a main over 12" in diameter unless approved by District Engineer. Water services and shall be sized per the following table:

Separate water service is required for each building

- a. Residential: 5/8-inch unless larger is required.
- b. Commercial: 2-inch unless otherwise approved.
- c. Industrial: 2-inch.

Water services and sewer mains or laterals shall be located a minimum of 10 feet horizontal clearance from each other.

No service laterals shall be installed on laterals for fire hydrants, blowoffs, or air valves and pipeline dead ends.

All non-residential water services shall have a District approved backflow prevention device installed adjacent to meter unless otherwise approved by District.

10. Minimum Design Pressure: Minimum design pressure shall be 1.25 times the static pressure with the total rounded up to the nearest 25 psi.
11. Control Valves, Pressure Relief Valves, and Other Special Valves: Control valves, pressure relief valves, and other special valves shall be designed and located as directed by District staff.
12. Easement Criteria: Pipelines not located within public right-of-way must be located in easements granted to the District on the District's Grant of Easement form. Easements for waterlines shall be a minimum of 20 feet in width unless otherwise approved by the District. Easements for other utilities may overlap District easement only if proper separations are maintained. Details for grant of easement documents are included in Section IV, Construction Drawing Preparation.

SECTION IV

CONSTRUCTION DRAWING PREPARATION

A. GENERAL

Engineer shall prepare water system improvement drawings that are clear, concise, and meet District standards.

Drawings shall be plotted on D size mylar sheets (24" x 36") with Lee Lake Water District approval block.

The drawings shall be professional quality drawings especially prepared as WATER DRAWINGS or WATER AND SEWER DRAWINGS. Work shall be of standard engineering practice and shall be legible and present the proposed construction without confusion. The drawings shall be signed by a California Registered Civil Engineer.

Water and sewer design may be shown on the same drawings if the drawings are clear and concise. The District shall be the sole judge as to when separate drawings are necessary.

B. COVER SHEET

The cover sheet shall show as a minimum:

1. General notes (Appendix "D")
2. Legend (Appendix "E")
3. Estimate of quantities (Appendix "E")
4. Approval for Construction Box (Appendix F")
5. Water System Certification (Appendix "F")
6. Index of Drawings
7. Vicinity Map
 - a. Scale
 - b. North Arrow
 - c. Street Names
 - d. Title and Location of Project
8. Index Map
 - a. Scale

- b. North Arrow
- c. Tract Layout with Street Names and Lot Numbers
- d. Proposed Waterlines Identified by Size and Type
- e. Symbols for all Appurtenances
 - (1) Fire Hydrants
 - (2) Air Valves
 - (3) Blowoffs
 - (4) Tees, Crosses
 - (5) Valves
 - (6) Water Services
- f. Sheet Numbers Corresponding to Plan and Profile Sheets.

The use of a second sheet to include all information is permissible.

C. PLAN AND PROFILE SHEETS

The plan/profile sheets shall be drawn at a horizontal scale of 1 inch = 40 feet and a vertical scale of 1 inch = 4 feet, and as a minimum the drawings shall show the following:

PLAN PORTION

1. Title Block: Title block shall show Tract No., pressure zone, and scale of drawings. District approval blocks shall be incorporated into the title block.
2. North Arrow: North arrow shall point up or to the left if possible to conform with Item II.
3. Right-of-Way: Existing and proposed right-of-way shall be identified with dimensions for same shown.
4. Curb Separation: Existing and/or proposed curb separation shall be identified with dimensions for same shown.
5. Easements: Existing or proposed easements shall be identified with dimensions for same shown.
6. Street Names: All street names shall be shown.
7. Lot Lines: All lot lines and parcel lines shall be shown. All lots shall be numbered or labeled. All adjacent tracts shall be identified.

8. Utilities: All existing and proposed Utilities shall be shown. Utilities to be shown shall include, but not be limited to, water (existing water lines shall be identified by District Plan No.), sewer, gas, power, telephone, storm drain, irrigation, traffic, and cable television. Each utility shall be identified with a symbol and the size of the utility shall be shown. Utility crossings shall be indicated with correct location and elevations noted on profiles.
9. Existing and Proposed Improvements: All existing surface improvements shall be shown including, but not limited to, curb and gutter, edge of pavement, power poles, driveways, sidewalks, and fences.
10. Match Lines: Match lines for each end of the street shall be shown as follows:

"Sta 15+00.00 Match Line

See Sheet 5"

11. Stationing: Stationing along the centerline of the improvement (street) shall be shown. Unless otherwise specified, station shall increase from left to right. Stationing shall be identified with tick marks at 100 foot intervals.
12. Proposed Pipeline: Proposed pipeline shall be indicated with a heavy line. Dimensions from street centerline to centerline of pipeline shall be shown. Pipeline shall be identified as:

16" CML&C (12 Gauge Minimum) Pipeline

OR

8" C900 Class 200 PVC Pipeline

13. Appurtenances: All appurtenances including tees, crosses, elbows, and blind flanges or plugs shall be identified by station and size as follows:

"Sta 12+25.00 12" x 12" x 8" Tee"

All pipeline appurtenances including air valves, blowoffs, fire hydrants, and valves shall be identified by station, size, and Lee Lake Water District Standard Number as follows:

Sta 12+25.00 2" Air Valve per LLWD Std. Dwg. No. LLW-10"

All meter services shall be indicated on the drawings and clear from driveways. The stationing of services is not required on the drawings, however, after construction of proposed facilities, the engineer shall provide the District with an "as-built" stationing table of the meter services on the record drawings.

All connections to existing water system shall be identified by station and size. A station equation and District plan number shall be used to reference existing waterlines. Detail for connection shall be used where required.

PROFILE PORTION

Only profiles for water and sewer shall be shown. All other utility profiles shall not be shown unless conflicting or where crossing over or under (i.e. storm drain).

1. Stationing: Stations shall be shown along bottom of profile at 100 foot intervals. Profile stationing shall line up with plan stationing.
2. Elevations: Elevations shall be shown on both ends of the profile sheet. Utility crossing shall be predicted with correct location and elevations of top and bottom of both pipes crossing.
3. Existing and Proposed Ground Surface: Existing ground surface or pavement over the proposed pipeline shall be identified as follows:

"Existing Top of Pavement (or ground surface) over Centerline of Pipeline"

Proposed ground surface or pavement over the proposed pipeline shall be identified as follows:

"Proposed Top of Pavement (or ground surface) over Centerline of Pipeline"

4. Match Lines: Match lines for each end of sheet shall be shown as follows:

"Sta. 15+00.00 Match Line

See Sheet 5"

5. Size and type of proposed pipeline shall be identified as follows:

"16" CML&C (12 Gauge Minimum) Pipeline"

OR

"8" C900 Class 200 PVC Pipeline"

6. Stationing and Flow Line Elevation: Pipeline stationing and flow line elevations shall be shown for each grade break as follows:

"Sta. 14+00.00 GB

1192.35 FL" Deflection Angle = 1°

Pipeline stationing and flow line elevations shall be shown for each tee, cross, elbow, BC, EC, hot tap, and end of pipeline as follows:

"Sta 12+25.00, 12"x12"x8" Tee

1190.00 FL"

Pipeline stationing and flow line elevations shall be shown for all air valves, blowoffs, and fire hydrants as follows:

"Sta 12+25.00, 4" Blowoff
1190.00 FL"

Pipeline station and flow line elevation shall be shown for each utility crossing.

7. Pipeline Lengths-and Pipeline Slopes: Pipeline lengths and pipeline slopes shall be shown between all grade breaks as follows:

"S = 0.005 135.00 LF 8" PVC

8. Maximum Working Pressure: Pipeline pressure shall be shown at top of each sheet as follows:

"Maximum Working Pressure = 150 psi"

9. Welded Joint Limits: Length of welded joints for welded steel pipe shall be identified as "Fully Welded Joints" with station limits shown.

10. Minimum Cover: 42 inch minimum cover shall be shown between top of pipe and existing or proposed ground surface.

11. Maximum Cover: The maximum cover shall be 8 feet between the top of pipe and existing or proposed ground surface.

A checklist for the preparation of water construction drawings is shown in Appendix "G".

D. GRANT OF EASEMENTS

The Grant of Easement shall be on District form and shall consist of three parts, Grant of Easement form, legal description, and plat.

The legal description shall be designated as Exhibit "A" and if appropriate shall have the assessor's parcel number indicated on the upper right corner of the exhibits. The legal description shall be prepared by a California Registered Civil Engineer or Land Surveyor and signed and stamped by said engineer or surveyor.

The plat shall be designated as Exhibit "B" and shall be prepared on District plat map and signed and stamped.

Copies of Grant of Easement form and plat are shown in Appendix "H". Items to be included on the plat map are shown in said appendix.

SECTION V

PROCEDURES

WATER SYSTEM FACILITY CONSTRUCTION

All water facility projects will be constructed by Developer and inspected by District inspectors. Work performed without the knowledge or the observation of a District inspector will not be accepted. The steps required to obtain approval of construction of water facilities are as follows:

1. Submit Water Service Application and Inspection Deposit.
2. Provide Construction Submittals for Review and Approval.
3. Water System Construction Agreement, Bonds, and Certificate of Insurance.
4. Attend Preconstruction Meeting.
5. Notify District Regarding Construction Start.
6. Construct Water System Facilities.
7. Pressure Test and Disinfect Water System Facilities.
8. Provide Continuity Test (Steel Pipe Only).
9. Pay any Remaining Inspection Fees.
10. Connect to Existing Water System.
11. Submit Application for Unmetered Construction Water.
12. Remove Unmetered Connections.
13. Submit Drop-in Meter Application and Pay Fees.
14. Provide Unconditional Lien Waiver and Release, Water System Grant Deed, and Record Drawings.
15. Notice of Completion Filed by District and Drop-in Meters Installed by District.

A flowchart for water system facility construction is shown as Exhibit "I". A construction status sheet to be used by District is shown in Appendix "J". Each required step is discussed in detail below:

1. Submit Water Service Application and Inspection Deposit: The water service application (available from the District) shall be completed and filed with the District staff. A copy of the water services application is shown in Appendix "C". The inspection deposit and three copies of approved water construction drawings shall be submitted with the completed application.
2. Construction Submittals:

- a. Developer/Contractor shall provide three copies of proposed materials for completion of the project (see Approved Materials List within the Lee Lake Water District Standard Drawings).
 - b. District Engineer reviews submittals and returns submittal with redline corrections, if necessary, to Developer/Contractor.
 - c. Submittal process shall be repeated as necessary until all materials are approved by District Engineer.
3. Provide Water System Construction Agreement, Bonds, and Certificate of Insurance: Developer shall submit to District staff the following:
- a. Contractor information sheet (Appendix "K").
 - b. Two copies of Encroachment Permits.
 - c. One copy of recorded tract/parcel map showing dedication of streets for road and public utility purposes (not required if executed Grant of Easement provided earlier).
 - d. Water System Construction Agreement (Appendix "L").

After District executes Water System Construction Agreement, approves Contractor, and construction submittal process is complete, Developer shall submit the following:

- a. Copy of the Contract between Developer and Contractor verifying cost of water system facility construction.
- b. Certification of streets to final grade (Appendix "M").
- c. Certificates of Insurance for Contractor (Appendix "N").
- d. Faithful Performance Bond (Appendix "O"). Performance bonds provided to the County are satisfactory if the facilities to be turned over to LLWD are included.

After District reviews and approves all submittals, District staff will issue a Notice to Proceed.

Thereafter, Developer shall schedule a preconstruction meeting with District staff. A one week notice is required prior to said preconstruction meeting.

4. Attend Construction Meeting: Preconstruction meeting shall be held at the District office and shall be attended by Developer's representative, Developer's contractor, and construction superintendent as well as by District staff.
5. Notify District Regarding Construction Start: Contractor shall notify District, in writing, a minimum of 1 week prior to construction start. Prior to construction, Contractor shall submit three copies of the construction cut sheets for Districts use

during construction. Waterline shall be staked at 50 foot intervals and at all water services, fire hydrants, tees, crosses, elbows, valves, air valves, blowoffs, and grade breaks.

6. Construct Water System Facilities: The water system facilities shall be constructed by Developer's contractor and inspected by District inspectors. After completion of construction, Developer's contractor shall complete all items on District's inspection list prior to testing and disinfecting water facilities.
7. Pressure Test and Disinfect Water System Facility: After water facilities are completed to satisfaction of District inspector including all items on inspector's construction deficiencies list, and after Contractor furnishes evidence that compaction of trenches has been completed to the satisfaction of the County of Riverside Road Department, Contractor shall test and disinfect the water facility in accordance with District Standards.

After system has been tested and disinfected, District will take samples for bacteriological tests. Acceptable bacteriological test results must be obtained before District will allow connections to existing water system.

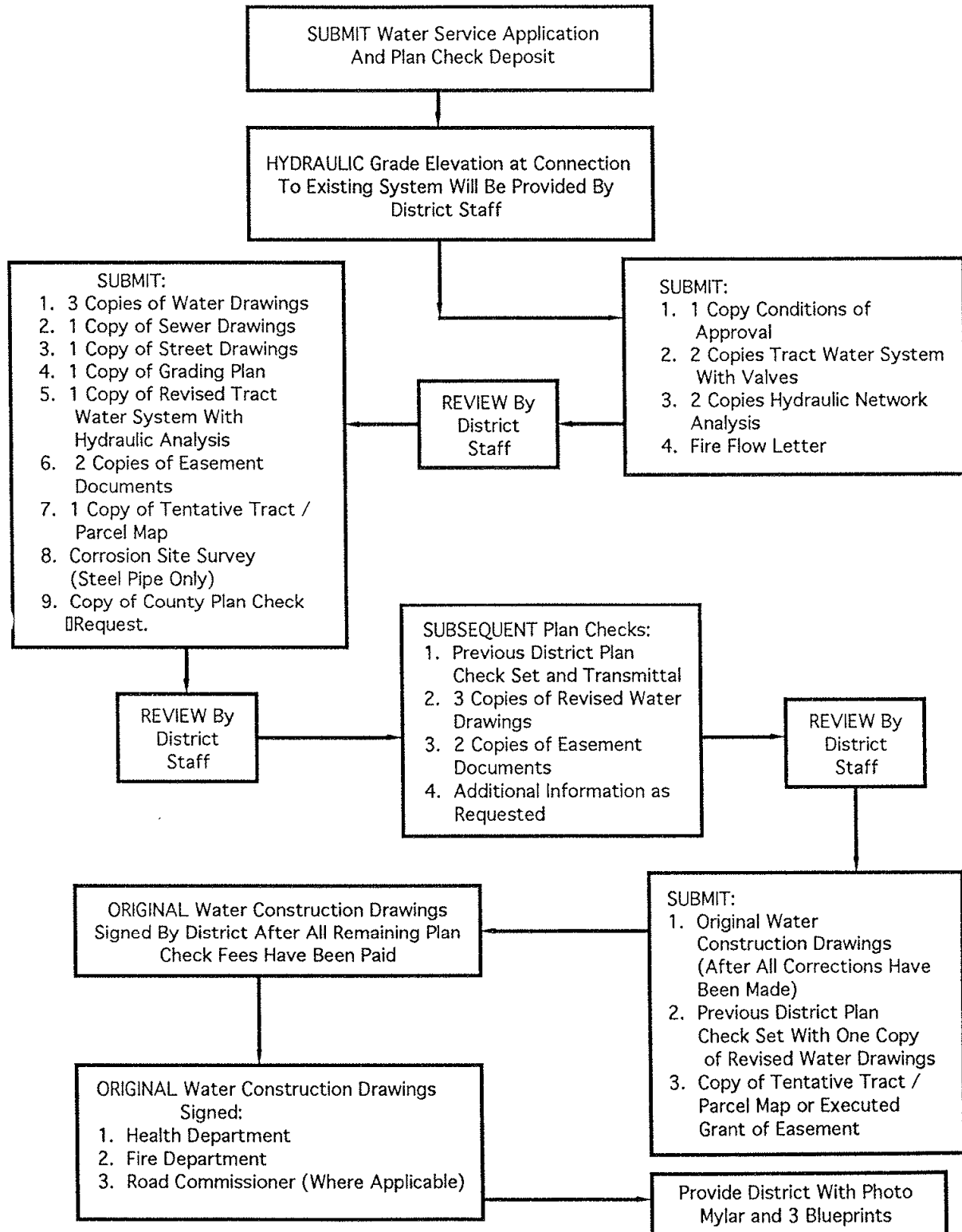
8. Provide Continuity Test (Welded Steel Pipe Only): After water facilities are tested and disinfected, Contractor shall perform continuity test on all corrosion control equipment. Contractor shall provide written results of said test to District. District shall approve said tests before District will allow connections to existing water system.
9. Pay Any Remaining Inspection Fees: Before District will allow connections to existing water system, any remaining inspection fees must be paid in full.
10. Connect to Existing Water System: After all fees have been paid and system is disinfected, Contractor may connect water facilities to existing water facility system. Contractor shall provide the District with three weeks written notification requesting a system shutdown to make tie-in's to the existing District facilities. Thereafter, District will release new water system facilities for fire protection and construction water.
11. Submit Application for Unmetered Construction Water: District staff (Appendix "P"). After approval of same, Developer shall install unmetered connections in accordance with District Standards.
12. Remove Unmetered Connections: After Contractor is completed with construction, he shall remove unmetered connections and prepare for drop-in meters as follows:
 - a. Construction water shall be discontinued completely and jumpers removed.
 - b. Angle meter stops shall be set to proper elevation and location, meter boxes shall be set to proper elevations and locations.

- c. Sidewalks and driveways shall be placed and forms stripped on areas in vicinity of meter boxes.
 - d. Lots shall be fine graded.
13. Submit Drop-in Meter Application and Pay Fees:
- a. The Drop-in Meter Application shall be completed and filed with District staff. All related meter installation and connection fees shall be submitted with the completed application. Approximately 30 days are required after receipt of the application and fees before meter will be set.
 - b. District inspector will inspect those lots requiring meters. Any deficient items will be listed on a punch list and copies will be given to Developer to correct. When all items have been resolved and accepted by inspector, said lots will be released to customer service for meter installations. There is a 2 week lead time from when lots are released for drop-in meters and when actual drop-in meters are installed.
14. Provide Unconditional Lien Waiver and Release, Water System, Grant Deed, and Record Drawings: Before District will install drop-in meters, Contractor shall:
- a. Provide Unconditional Lien Waiver and Release for waterline construction (Appendix "Q").
 - b. Provide Grant Deed dedicating water system to District. Said Grant Deed is effective only after final Notice of Completion for water system facilities is filed by District staff. Grant Deed must be filed on form provided by District (Appendix "R").
 - c. Provide water system record ("As-Builts") drawings.
15. Notice of Completion Filed by District and Drop-in Meters Installed by District: After receipt, and approval of items in Section 13, District will file Notice of Completion install drop-in meters.

APPENDIX A

FLOWCHART FOR CONSTRUCTION DRAWING APPROVAL

FLOWCHART FOR CONSTRUCTION DRAWING APPROVAL



APPENDIX "A"

APPENDIX B
PLAN CHECK STATUS SHEET

**LEE LAKE WATER DISTRICT
WATER SYSTEM FACILITY REQUIREMENTS
PLAN CHECK STATUS SHEET**

LLWD JOB NO. _____ TRACT NO. _____

PARCEL MAP NO. _____

NAME OF PROJECT: _____

DEVELOPER: _____

LOCATION OF PROJECT: _____

ENGINEER: _____ PHONE: _____

	ITEM	DATE	INITIAL
1.	Received Engineering Service Application and Plan Check Deposit (Engineer)	_____	_____
2.	Provide Hydraulic Grade Elevation at Connections to Existing System (District)	_____	_____
3.	Received:		
	- One Copy of Conditions of Approval (Engineer)	_____	_____
	- Two Copies of Tract Map with Proposed Water System Including Valves (Engineer)	_____	_____
	- Two Copies of Hydraulic Network Analysis of Proposed System (Engineer)	_____	_____
4.	Review Item 3 and Provide Comments (District)	_____	_____

- | | | | |
|----|---|-------|-------|
| 5. | Received First Plan Check (Engineer) | | |
| | - Three Copies of Water Construction Drawings | _____ | _____ |
| | - One Copy of Sewer Construction Drawings (Unless Part of Water Drawings) | _____ | _____ |
| | - one Copy of Street Construction Drawings | _____ | _____ |
| | - One Copy of Grading Plan | _____ | _____ |
| | - One Copy of Revised Tract Yap with Hydraulic Network Analysis | _____ | _____ |
| | - Two Copies of Easement Documents | _____ | _____ |
| | - One Copy of Tract/Parcel Map | _____ | _____ |
| | - Corrosion Site Survey (Steel Pipe Only) | _____ | _____ |
| | - Copy of City/County Plan Check Receipt | _____ | _____ |
| 6. | Review First Plan Check, Provide Comments (District) | _____ | _____ |
| 7. | Received Second Plan Check (Engineer) | | |
| | - Previous District Plan Check Set and Transmittal | _____ | _____ |
| | - Three Copies of Revised Water Construction Drawings | _____ | _____ |
| | - Two Copies of Easement Documents | _____ | _____ |
| | - Copies of Additional Information as Requested | _____ | _____ |
| | _____ | _____ | _____ |
| | _____ | _____ | _____ |
| | _____ | _____ | _____ |
| 8. | Review Second Plan Check, Provide Comments (District) | _____ | _____ |
| 9. | Received Third Plan Check (Engineer) | | |
| | - Previous District Plan Check Set and Transmittal | _____ | _____ |
| | - Three Copies of Revised Water Construction Drawings | _____ | _____ |
| | - Two Copies of Easement Documents | _____ | _____ |
| | - Copies of Additional Information as Requested | _____ | _____ |
| | _____ | _____ | _____ |
| | _____ | _____ | _____ |
| | _____ | _____ | _____ |

- | | | | |
|-----|--|--|--|
| 10. | Review Third Plan Check, Provide
Comments (District) | | |
| 11. | Received Original Construction Drawings
for Signature (Engineer) | | |
| | - Previous District Plan Check Set and
One Copy of Revised Water
Construction Drawings | | |
| | - All Remaining Plat Check Fees Paid | | |
| | - Copy of Tentative Tract/Parcel Map | | |
| | or | | |
| | - Executed Grant of Easement | | |
| 12. | Construction Drawings Signed (District) | | |
| 13. | Received One Set of Photo Mylars and
Three Sets of Construction Drawings
(Engineer) | | |

APPENDIX C

REQUEST FOR WATER SERVICES APPLICATION

LEE LAKE WATER DISTRICT
Request for Water Services
Application

Work Order # _____

Meter Installation # _____

Applicant's Name and Address:

Name	
Street Address	Telephone ()
City	State

Owner/Responsible Party Name and Mailing Address:

Name	
Street address	Telephone
City	State

Services Required:

<input type="checkbox"/> Water Service	<input type="checkbox"/> Complete	<input type="checkbox"/> Drop In	<input type="checkbox"/> Fire Protection	<input type="checkbox"/> Backflow	<input type="checkbox"/> Construction (Hydrant Meter)
	<input type="checkbox"/> Turn On	<input type="checkbox"/> Jumper	<input type="checkbox"/> Meter Size: (Circle one) 5/8 3/4 1 1-1/2 2		
<input type="checkbox"/> Plan Check	<input type="checkbox"/> Pressure Reducing	<input type="checkbox"/> Inspection of Pipeline			
<input type="checkbox"/> Feasibility Study	<input type="checkbox"/> Pipeline Extension	<input type="checkbox"/> Will Serve (Water Availability)	<input type="checkbox"/> Other		

Location Where Services are Required:

APN	Street #/Name			
Elevation at Meter	Pressure Calculated	Pressure Zone:	<input type="checkbox"/> 1320	<input type="checkbox"/> Other
Other Location Information				

Calculation of Costs:

Water Service Fees:	Facility Charge			\$
	Meter			\$
	Backflow			\$
	Reimbursement Agreements			\$
	Other			\$
Plan Check Deposit:	\$	Processing Fee + \$	1 st 1,000 Ft. + \$	addit'l footage \$
Inspection Deposit:	\$	Processing Fee + \$	1 st 1,000 Ft. + \$	addit'l footage \$
Offerer Fees:	Temporary Service Agreement			\$
	Annexation			\$
	Other:			\$
				\$

Cust. Acct. Type	Cust. Act. No.	
Total Received \$	Check #	

[] I understand that water service will be furnished and used in accordance with the rules, regulations, and ordinances of the District, and I further understand that the District does not in any manner guarantee continuous delivery of water on demand nor does it assume any responsibility for damages which may occur due to an interruption of water delivery. In addition, I understand that the District cannot assume the responsibility for pressure regulation and recommends that the Property Owner conform to the applicable plumbing code (City or County) to safeguard his water system wherever pressure regulation is necessary. I further understand that I must comply with the regulations of the Department of Health, State of California, in the use of water and particularly with the "Cross Connection Regulations." [] Deposits will be compared to actual costs when service is completed. Refunds will be made for excess of deposit over cost or an invoice will be sent for costs over deposit.

[] **GUARANTEE OF PAYMENT BY OWNER**
 I hereby guarantee payment of all costs for water service rendered to this property in accordance with this application.

APPLICANT'S SIGNATURE

CUSTOMER RECEIPT

APPENDIX D
GENERAL CONSTRUCTION NOTES

LEE LAKE WATER DISTRICT
GENERAL CONSTRUCTION NOTES

1. CONSTRUCTION NOTES

- A. CONTRACTOR SHALL FURNISH AND INSTALL ALL FACILITIES IN ACCORDANCE WITH LEE LAKE WATER DISTRICT (LLWD) WATER SYSTEM FACILITY REQUIREMENTS, STANDARD SPECIFICATIONS, AND STANDARD DRAWINGS. LLWD STANDARD SPECIFICATIONS AND STANDARD DRAWINGS ARE AVAILABLE AT THE DISTRICT OFFICE. CONTRACTOR SHALL BE IN POSSESSION OF DISTRICT'S SPECIFICATIONS AND STANDARD DRAWINGS ON THE JOB SITE AT ALL TIMES.
- B. ALL PERMITS REQUIRED BY LAW SHALL BE ACQUIRED BY THE APPLICANT OR THEIR CONTRACTOR AND ARE MADE PART OF THE SPECIFICATIONS.
- C. THE DRAWINGS AND DATA HEREON ARE HEREBY MADE PART OF THE SPECIFICATIONS.
- D. REVISIONS WILL NOT BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF LLWD.
- E. APPROVAL OF THESE PLANS BY LLWD DOES NOT CONSTITUTE A REPRESENTATION OF THE ACCURACY OF THE LOCATION OR EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY, PIPE, OR STRUCTURE WITHIN THE LIMITS OF WORK.
- F. THE CONTRACTOR SHALL NOTIFY THE LLWD DISTRICT ENGINEER A MINIMUM OF ONE (1) WEEK PRIOR TO BEGINNING WORK SO THAT INSPECTIONS CAN BE ARRANGED AND PROVIDED.
- G. THE LLWD INSPECTOR SHALL BE FURNISHED THREE SETS OF PROJECT DRAWINGS.
- H. THE CONTRACTOR SHALL CONFORM TO CURRENT CAL-OSHA SAFETY REQUIREMENTS.
- I. THE CONTRACTOR SHALL SUBMIT TO THE LLWD A SOILS REPORT BY A QUALIFIED GEOTECHNICAL ENGINEER WHICH CERTIFIES THAT ALL TRENCH BACKFILL WAS COMPACTED AS DIRECTED BY THE SOILS ENGINEER IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND LLWD SPECIFICATIONS.
- J. JOB-MIXING OF CONCRETE IS NOT PERMITTED.
- K. ALL CONCRETE TESTING REQUIRED BY LLWD WILL BE AT THE EXPENSE OF THE CONTRACTOR.

- L. CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION REQUESTING A SYSTEM SHUTDOWN FOR CONNECTIONS TO EXISTING SYSTEM. SAID NOTIFICATION SHALL BE MADE A MINIMUM OF THREE WEEKS PRIOR TO SAID SHUTDOWN TO THE LLWD DISTRICT ENGINEER.
- M. ALL CONNECTIONS OR TIE-INS TO THE EXISTING FACILITIES REQUIRING SYSTEM SHUTDOWN AND DRAINING OF THE EXISTING FACILITIES SHALL BE DONE AT NIGHT OR AS APPROVED BY LLWD.
- N. EACH LOT SHALL BE SERVICED WITH A MINIMUM ONE (1) INCH COPPER LATERAL WITH METER AND BACK FLOW PROTECTION DEVICE. A 3/4-INCH HIGH LETTER "W" SHALL BE CHISELED IN THE TOP OF EXISTING CURB OR IMPRINTED IN NEW CURB AT ALL WATER SERVICE CONNECTIONS.
- O. AIR VACUUM AND AIR RELEASE ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH LLWD STANDARD DRAWINGS LLW-5 OR LLW-6. AIR RELEASE VALVES SHALL BE INSTALLED AT ALL HIGH POINTS AND BLOW-OFFS AT ALL LOW POINTS IN THE WATER LINE PROFILE. FIRE HYDRANTS CAN BE USED IN LIEU OF A MANUAL AIR RELEASE OR BLOW-OFF WHEN LOCATED NEAR THE HIGH POINT OR LOW POINTS IN THE PROFILE. BLOW-OFFS SHALL BE INSTALLED IN CONFORMANCE TO LLW-2.
- P. ALL EXISTING FACILITIES TO BE TIED INTO SHALL BE FIELD VERIFIED AND NOTES SHALL BE SUBMITTED TO LLWD PRIOR TO CONNECTION.
- Q. WATER SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS.
- R. ALL VALVES, PIPING, AND APPURTENANCES SHALL BE DESIGNED TO MEET OR EXCEED THE SPECIFIED PIPE PRESSURE CLASS SHOWN ON THE PLAN PROFILE SHEETS IN ADDITION, ALL VALVES, PIPELINES AND APPURTENANCES SHALL BE TESTED AT 1.25 TIMES THE MAXIMUM STATIC PRESSURE OF THE PIPELINE, WITH THE TOTAL ROUNDED UP TO THE NEAREST 25 PSI. VALVES SHALL BE CAPABLE OF WITHSTANDING DESIGN PRESSURES IN A CLOSED POSITION. TESTING SHALL BE PERFORMED IN THE PRESENCE OF THE DISTRICT INSPECTOR.
- S. CONTRACTOR SHALL DISINFECT ALL PIPELINES AND APPURTENANCES EITHER PRIOR TO OR AFTER THEY HAVE BEEN SUBJECTED TO HYDROSTATIC AND LEAKAGE TESTING. THE METHOD OF DISINFECTING SHALL CONFORM TO PROVISIONS OF AWWA C-601 (LATEST). THE CONCENTRATION OF THE DOSAGE APPLIED SHALL BE PRESCRIBED BY THE DISTRICT AND SHALL BE AT LEAST 50 PPM AND IT SHALL NOT EXCEED 200 PPM. CHLORINATED WATER SHALL REMAIN IN THE PIPE LONG ENOUGH TO DESTROY ALL NON-SPORE-FORMING BACTERIA (MIN. 24 HOURS).

- T. CONTRACTOR SHALL FURNISH PHYSICAL AND CHEMICAL TEST RESULTS FOR ALL FITTINGS IN ACCORDANCE TO LLWD STANDARD SPECIFICATIONS.
- U. ALL MATERIALS, TESTING, AND INSPECTION OF THE PIPE SHALL BE IN CONFORMITY WITH THE REQUIREMENTS OF LLWD AND THE AWWA STANDARDS. FAILURE TO MEET ANY REQUIREMENTS OF THE ABOVE REFERENCED AGENCIES WILL BE CAUSE FOR REJECTION.
- V. FIRE HYDRANT SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS NOS. LLW-1 AND LLW-3 OR LLW-4.
- W. WATER LINE CONSTRUCTION SHALL BE _____ INCH (PVC, CML OR STEEL) IN ACCORDANCE WITH STANDARD DRAWINGS NOS. LLW-17, LLW-19, AND LLW-20 (FOR PVC PIPE) AND LLW-22, LLW-23 AND LLW-26 THROUGH LLW-32.
- X. RESTRAINTS SHALL BE USED WITH THRUST BLOCKS IN ACCORDANCE WITH LLWD STANDARD DRAWINGS NO. LLW-19 AND LLW-22

2. UTILITIES

- A. AT LEAST 48 HOURS BEFORE COMMENCING ANY EXCAVATION, CONTRACTOR SHALL REQUEST UNDERGROUND SERVICE ALERT (1 800-422-4133) AND NON-MEMBER COMPANIES, OR UTILITIES TO MARK OR OTHERWISE INDICATE THE LOCATION(S) OF THEIR SUBSURFACE FACILITIES INCLUDING, BUT NOT LIMITED TO, STRUCTURES INCLUDING VAULTS, MAIN CONDUCTORS OR CONDUITS, AND SERVICE CONNECTIONS.
- B. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL EXPOSE EXISTING WATERLINES AT PROPOSED CONNECTIONS AND CROSSINGS AND VERIFY ELEVATIONS, LOCATIONS, AND SIZE OF EXISTING FACILITIES.
- C. CONTRACTOR SHALL NOT INTERRUPT OR DISTURB ANY UTILITY FACILITY WITHOUT AUTHORITY FROM THE UTILITY. WHERE PROTECTION IS REQUIRED TO ENSURE INTEGRITY OF UTILITY FACILITIES (INCLUDING DISTRICT-OWNED UTILITIES). CONTRACTOR SHALL FURNISH AND PLACE ALL NECESSARY PROTECTION.
- D. WHENEVER A WATERLINE ENCOUNTERS A STORM DRAIN PIPE OR OTHER OBSTRUCTION AND CROSSING OVER THE OBSTRUCTION WILL RESULT IN LESS THAN 42 INCHES OF COVER OVER THE TOP OF THE WATER, THE WATERLINE SHALL CROSS UNDER THE OBSTRUCTION WITH A MINIMUM CLEARANCE OF 12 INCHES.

4. CONSTRUCTION DRAWINGS

- A. MINIMUM PIPE COVER SHALL BE 42 INCHES FROM FINISHED GROUND SURFACE.

- B. WATER SYSTEM PROFILE ELEVATIONS ARE TO FLOW LINE OF PIPE.
- C. STATIONING FOR PIPELINE AS SHOWN ON PLAN PORTION OF DRAWINGS IS PERPENDICULAR TO CENTERLINE OF RIGHT-OF-WAY (STREET).
- D. SEPARATION BETWEEN SEWER AND WATER SHALL CONFORM TO RIVERSIDE COUNTY STANDARD NO. 817 AND LLWD STANDARD DRAWING S-24.

5. CONSTRUCTION TOLERANCES

PIPELINES SHALL BE CONSTRUCTED TO THAT ACTUAL FLOW LINE ELEVATIONS ARE WITHIN 0.1 FOOT OF DESIGN FLOW LINE ELEVATIONS. PIPELINES, WHEN INSTALLED, SHALL HAVE CONTINUOUS UPGRADE OR DOWNGRADE, CORRESPONDING WITH DESIGN SLOPE, WITHOUT ANY HIGH SPOTS. PIPELINES SHALL BE CONSTRUCTED SO THAT ACTUAL PIPELINE CENTERLINES ARE WITHIN 0.1 FOOT OF DESIGN PIPELINE CENTERLINES.

PIPELINE CONSTRUCTION SHALL CONFORM WITH CONSTRUCTION DRAWINGS IN ACCORDANCE WITH THE ABOVE SPECIFIED TOLERANCES. CONTRACTOR SHALL ASSIST DISTRICT AS REQUIRED TO CONFIRM COMPLIANCE WITH CONSTRUCTION TOLERANCES. CONTRACTOR SHALL MAKE OR ASSIST IN MAKING ALL NECESSARY MEASUREMENTS AS DETERMINED BY DISTRICT.

6. INSPECTION FEE

THREE WEEKS PRIOR TO CONSTRUCTION, A DEPOSIT FOR INSPECTION FEE WILL BE MADE. THIS FEE IS ESTIMATED AT \$_____. SHOULD ACTUAL COSTS BE GREATER, THE BALANCE SHALL BE PAID TO THE DISTRICT BY THE APPLICANT. SHOULD ACTUAL COSTS BE LESS, THE BALANCE SHALL BE REFUNDED TO THE APPLICANT. FEES SUBJECT TO CHANGE WITHOUT NOTICE.

7. ENGINEERING FIRM

PRIOR TO SIGNING OF WATER CONSTRUCTION DRAWINGS BY LLWD, ALL QUESTIONS CONCERNING THIS PROJECT SHALL BE DIRECTED TO:

(NAME)

(TITLE)

(FIRM)

APPENDIX E

LEGEND AND ESTIMATE OF QUANTITIES

LEGEND AND ESTIMATE OF QUANTITIES

1. The Legend and Estimate of Quantities shall be included on the same sheet as the Index Map, in the following format (example):

<u>Quantity</u>	<u>Unit</u>	<u>Description</u>	<u>Standard Drawing Reference</u>
200	L.F.	8" PVC Pipe, Class 200	per LLW-19, 20, 21, & 22

2. A separate entry is required for each size and type of all materials necessary for this project, including, but not limited to, size and type of pipe, valves, water services, tees, crosses, elbows, and end plugs.

APPENDIX F

CONSTRUCTION APPROVAL BOX/

WATER SYSTEM CERTIFICATION

LEE LAKE WATER DISTRICT		
APPROVED FOR CONSTRUCTION:		
_____	_____	
<i>General Manager</i>	<i>Date</i>	
_____	_____	_____
<i>Engineering</i>	<i>R.C.E.</i>	<i>DATE</i>

WATER SYSTEM CERTIFICATION	
<p>I CERTIFY THAT THE DESIGN OF THE WATER SYSTEM IN _____* IS IN ACCORDANCE WITH THE WATER SYSTEM MASTER PLAN OF LEE LAKE WATER DISTRICT AND THAT THE WATER SERVICE, STORAGE AND DISTRIBUTION SYSTEM WILL BE ADEQUATE TO SUPPLY WATER TO SAID PROJECT. THIS CERTIFICATE DOES NOT CONSTITUTE A GUARANTEE THAT IT WILL SUPPLY WATER TO SAID PROJECT AT ANY SPECIFIC QUANTITIES, FLOWS, OR PRESSURE FOR FIRE PROTECTION OR ANY OTHER PURPOSE.</p>	
_____	_____
<i>General Manager</i>	<i>Date</i>

SEWER SYSTEM CERTIFICATION	
<p>I CERTIFY THAT THE DESIGN OF THE SEWER SYSTEM IN _____* IS IN ACCORDANCE WITH THE SEWER SYSTEM REQUIREMENTS OF LEE LAKE WATER DISTRICT AND THAT THE DISTRICT HAS PROGRAMMED ADEQUATE CAPACITY TO TREAT THE WASTES FROM THE PROPOSED PROJECT.</p>	
_____	_____
<i>General Manager</i>	<i>Date</i>

* WATER AND SEWER SYSTEM CERTIFICATION BLOCK TO BE COMPLETED BY THE ENGINEER OF RECORD SPECIFIC TO THE PROJECT.

IMPROVEMENT PLAN SIGNATURE BLOCKS AND CERTIFICATIONS

1/27/2006 4:21:19 PM L:\Agency Standards\Lee Lake Water District\Sign_Blocks

Sign_Blocks.dwg

CONSTRUCTION APPROVAL BOX/WATER SYSTEM CERTIFICATION

APPENDIX G

WATER CONSTRUCTION DRAWINGS CHECKLIST

LEE LAKE WATER DISTRICT

WATER CONSTRUCTION DRAWINGS CHECKLIST

TRACT NO. _____ LLWD W.O. _____

COVER SHEET

VICINITY MAP		
Scale _____		
North Arrow		
Street Names		
Title and Location of Project		
INDEX MAP		
Scale _____		
North Arrow		
Proposed Water/Sewer Line		
Layout of Project		
Appurtenances		
Manhole		
Fire Hydrants		
Detector Checks		
Air Valves		
Blow-Offs		
Pipeline		
Quantities		
Plan Layout / Sheet Reference		
NOTES		
Water System Certification		
Notifications		
General Water Notes		
LLWD Signature Block		

LEE LAKE WATER DISTRICT
 WATER CONSTRUCTION DRAWINGS CHECKLIST
 TRACT NO. _____ LLWD W.O. _____

PROFILE

SHEET NO.												
Type, Size, and Station:												
a. Tees, Crosses, Elbows, Blind Flanges, Plugs, Air Valves, Blowoffs, and Fire Hydrants												i
b. Connections to Existing Facilities												
c. In-line Vavles												
Stations at Bottom of Profile												
Elevations at Side of Profile												
Existing Ground Surface												
Proposed Finished Ground Surface or Pavement												
Match Lines (Station & Sheet Number)												
Flow Line of Waterline Identified												
Stationing and Flow Line Elevations for:												
a. Tees, Crosses, and Elbows												
b. Grade Breaks												
c. Hot Taps												
d. EC's and BC's												
e. Blow-Offs												
f. Air Valves												
g. End of Pipe												
h. Fire Hydrants												
Pipeline Slopes												
Pipeline Lengths												
Maximum Work Pressure												
Welded Joint Limits												
42" Minimum Cover												
Concrete Encasement Limits												
Separation from Sewer												

LEE LAKE WATER DISTRICT
 WATER CONSTRUCTION DRAWINGS CHECKLIST

TRACT NO. _____ LLWD W.O. _____

PLAN

SHEET NO.																			
LLWD Signature Block																			
Title Block with Pressure Zone																			
Scale (Hor. – 1"=40') (Vert. – 1"=4')																			
North Arrow																			
Location and Width of Right-of-Way																			
Location and Width of Curb Separation																			
Location and Width of Easements																			
Street Names																			
Lot (Parcel) Lines & Numbers, All Adjacent Tracts Identified																			
Existing/Future Utilities																			
Existing/Proposed Improvements																			
Match Lines (Station & Sheet Number)																			
Existing Water Dwg. Reference																			
Pipeline Located per County Standard No. 817																			
Separation from Sewer																			
Stations and O.D. Elevations of Crossings (water, sewer, storm drain, and reclaimed water)																			
Centerline Offset to Proposed Pipeline and Other Utilities																			
Centerline Stationing (100' tickmarks with Station)																			
Center Curve Data																			
a. Street																			
b. Pipeline																			
Type and Size of Proposed Water Pipeline																			
Service Connection (Sizes, Approximate Locations)																			

APPENDIX H

GRANT OF EASEMENT

WHEN RECORDED, MAIL TO:

LEE LAKE WATER DISTRICT
22646 Temescal Canyon Road
Corona, California 92883

NO RECORDING FEE PER GOVT CODE 6103 & 27383

APN
TRA:

TRANSACTION EXEMPT FROM DOCUMENTARY
TRANSFER TAX PER REV. & TAX CODE 11922

DEED OF EASEMENT

For valuable consideration, receipt of which is hereby acknowledged, _____, Grantor, hereby grants to LEE LAKE WATER DISTRICT, Grantee, a permanent easement and right of way for the installation, operation, maintenance, repair and replacement of a pipeline or pipelines, together with incidental appurtenances, connections and structures in, over, under, upon, along, through and across the real property situated in the County of Riverside, State of California, described on Exhibit A hereto, and as depicted on Exhibit B.

Together with the right to grade and improve said right of way and to enter upon and pass and repass over and along said strip of land for the construction, operation and maintenance, repair and replacement of the pipeline or pipelines, appurtenances, connections and structures to be constructed in said easement by the Lee Lake Water District.

It is understood and agreed that the easement and right of way hereby granted is subject to the right of the servient owner, his successors and assigns, to use the surface of the land within said easement and right of way to the extent that such use is compatible with the full and free exercise of said easement and right of way by the Lee Lake Water District; provided however, that no trees, vegetation, fences, block walls, or other structures or other improvements shall be constructed upon, across or over said easement and right of way, nor shall owner place or maintain any fill or paving of any nature over the surface of the easement, nor remove any earth from the cover of said pipeline or other facility after construction.

DATED: _____

Company Name

A _____ Corporation

By: _____
Name

STATE OF CALIFORNIA)
) ss.
COUNTY OF RIVERSIDE)

On _____, before me, _____, a Notary Public in and for said County and State, personally appeared _____, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument, the entity upon behalf of which the person acted, executed the instrument.

WITNESS me hand and official seal.

Signature _____

(Seal of Notary)

PLAT REQUIREMENTS

1. North Arrow
2. Subdivision Title With Recording Data
3. Lot of Parcel #'s
4. Street Names
5. Right-Of-Way Widths
6. Townships, Sections and Ranges
7. All Distances, Bearings and References Stated With Legal Description
8. Point Of Beginning
9. Bold and Distinct Line Around Proposed Easement
10. Scale
11. RCE 1 LS Signature and Stamp

LEE LAKE WATER DISTRICT

This Plat Is solely An Aid In Locating The Parcel(S) Described In The Attached Document. It Is Not A Part Of The Written Description Therein.			SHEET OF ____ SHEET(S)
EXHIBIT	PREPARED BY:	SUBJECT:	
SCALE: 1"= _____	DRAWN BY: _____	DATE: _____	CHECKED BY: _____
			W.O.# _____

PLAT REQUIREMENTS

1. North Arrow
2. Subdivision Title With Recording Data
3. Lot of Parcel #'s
4. Street Names
5. Right-Of-Way Widths
6. Townships, Sections and Ranges
7. All Distances, Bearings and References Stated With Legal Description
8. Point Of Beginning
9. Bold and Distinct Line Around Proposed Easement
10. Scale
11. RCE 1 LS Signature and Stamp

This Plat Is solely An Aid In Locating The Parcel(S) Described In The Attached Document. It Is Not A Part Of The Written Description Therein.

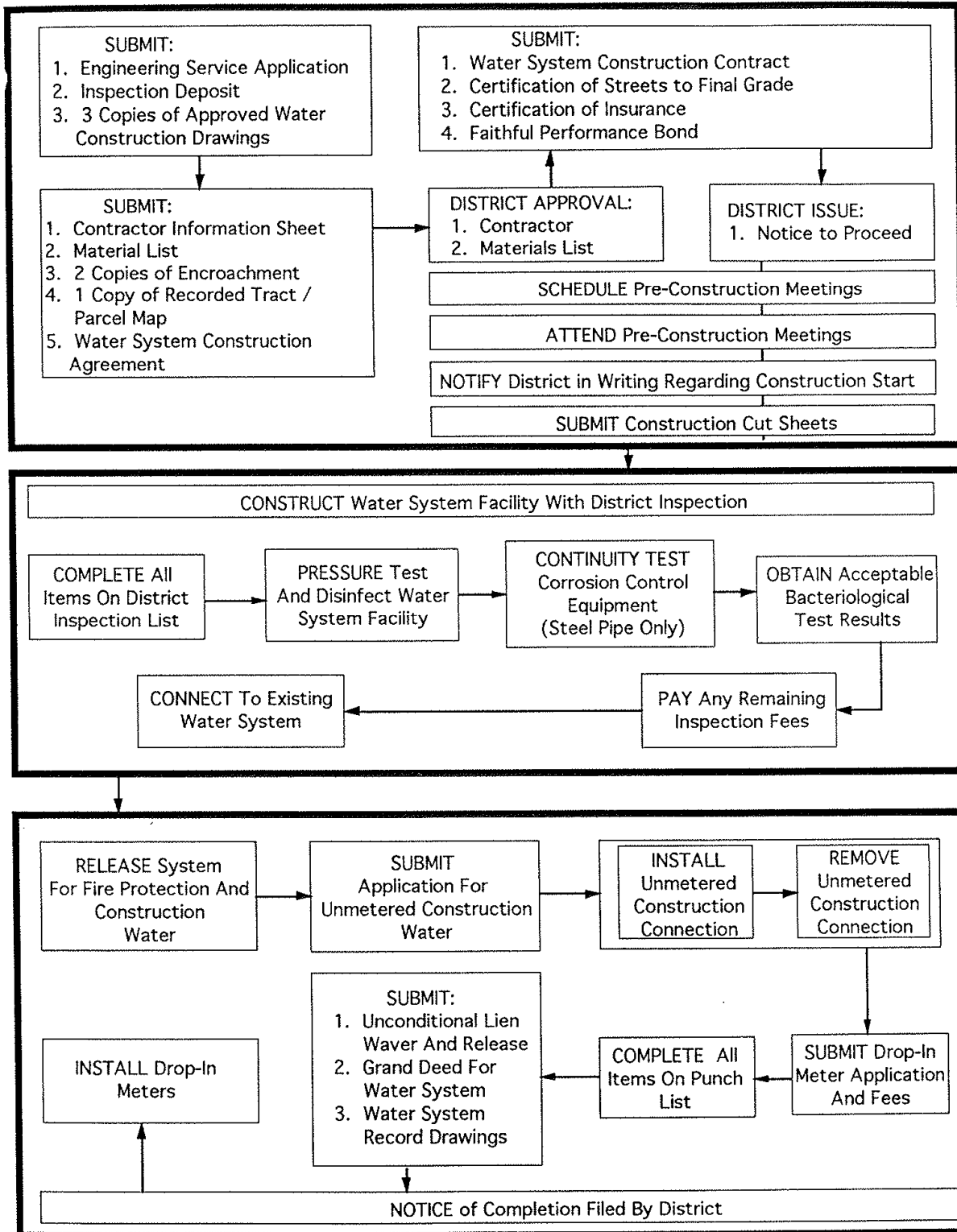
LEE LAKE WATER DISTRICT

EXHIBIT	PREPARED BY:	SUBJECT:	SHEET
			OF ____ SHEET(S)
SCALE: 1"= _____ DRAWN BY: _____ DATE: _____ CHECKED BY: _____ W.O.# _____			

APPENDIX I

FLOWCHART FOR CONSTRUCTION OF WATER FACILITIES

FLOWCHART FOR CONSTRUCTION OF WATER FACILITIES



APPENDIX "I"

APPENDIX J

CONSTRUCTION STATUS SHEET

CONSTRUCTION STATUS REPORT

LLWD Job No. _____ Inspector _____

Location: _____

Developer: _____

Contractor: _____

RECEIVED

APPROVED

SUBMITTED

Engineering Service Application
 Inspection Deposit
 Approved Water Construction Drawings (3 Sets)
 Contractor Information Sheet
 Materials List
 Encroachment Permit (2 Copies)
 Recorded Tract/Parcel Map (1 Copy)
 Water System Construction Agreement
 Contract for Water System Construction
 Certification of Streets to Final Grade
 Certificates of Insurance
 Faithful Performance Bond
 Labor and Materials Bond

DATE

Notice to Proceed issued by District
 Preconstruction Meeting Conducted
 Received Cut Sheets
 Installed Waterlines and all Appurtenances
 Completed all Items on Inspectors Deficiency List

DATE

- _____ Received County Canpaction Tests Sign-off
- _____ Pressure Tested System
- _____ Disinfected System
- _____ Samples Taken for Bacteriological Tests
- _____ Acceptable Bacteriological Results Obtained
- _____ All Remaining Fees and Charges Paid
- _____ Connection(s) to Existing System Completed
- _____ Water System Released for Fire Protection and Construction Water
- _____ Unmetered Construction Water Applications Signed
- _____ Unmetered Connections Removed
- _____ Ready for Drop-in Meters
- _____ Received Drop-in Meter Applications
- _____ Received Drop-in Meter Fees
- _____ Signed Drop-in Meter Applications

RECEIVED

APPROVED

SUBMITTED

- _____ _____ Material and Labor Release
- _____ _____ Water System Grant Deed
- _____ _____ Record Drawings

DATE

- _____ Filed Notice of Completion
- _____ Installed Drop-in Meters

APPENDIX K

CONTRACTOR INFORMATION SHEET

CONTRACTOR INFORMATION SHEET

Firm Name and Address: _____

Contractor's License No.: _____

License Class: _____

License Expiration Date: _____

Telephone No.: _____

Emergency Telephone No.: _____

Contractor's Project Manager:

Name: _____

Telephone No.: _____

Emergency Telephone No.: _____

Contractor's Superintendent:

Name: _____

Telephone No.: _____

Emergency Telephone No.: _____

Contractor's Signature: _____

Date: _____

Received: Lee Lake Water District:

By: _____

Date: _____

Contractor shall furnish three references for similar projects completed within the past three (3) years.

<u>Contract Amount</u>	<u>Type of Work</u>	<u>Date Completed</u>	<u>Owner (Name & Address)</u>	<u>Person in Charge of Project</u>	<u>Phone Number of Person in Charge</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

APPENDIX "K" Sheet 2

APPENDIX L

WATER SYSTEM CONSTRUCTION AGREEMENT

**LEE LAKE WATER DISTRICT
OF RIVERSIDE COUNTY**

**WATER SYSTEM CONSTRUCTION AGREEMENT
(DEVELOPER INITIATED/CONTRACTOR INSTALLED)**

THIS AGREEMENT is made of this _____ day of _____, 20____, by and between LEE LAKE WATER DISTRICT OF RIVERSIDE COUNTY, A California Water District, hereinafter designated as the "District", and _____

located at _____

Telephone No. _____, represented by hereinafter designated as the "Developer".

WHEREAS, Developer is planning a _____ (Tract)

consisting of _____ residential (commercial) lots known as _____

_____, records of Riverside County, California, as further shown on the map attached hereto as Exhibit A, and which is hereinafter referred to as the "Development"; and

WHEREAS, said subdivision will require a water system to provide domestic water service to the Development; and

WHEREAS, Developer is desirous of having the District provide domestic water service to the Development and is willing to convey to the District the water system after the construction thereof, contingent upon the District's acceptance of such conveyance on the terms and conditions set forth herein.

NOW, THEREFORE, THE PARTIES AGREE AS FOLLOWS:

1. District agrees to provide domestic water service to the Development on the terms and conditions hereinafter provided and subject to all of the District's rules, regulations, ordinances, orders and rates.

2. Developer agrees to construct the water system facilities necessary for aforesaid Development in accordance with the following terms and conditions:

A. Developer will cause all of the water system pipelines and facilities necessary or desirable to serve the Development to be constructed at Developer's expense. The required pipelines and facilities are hereinafter referred to as the "Water System".

B. Developer will cause the Water System plans, specifications and construction drawings to be prepared at Developer's expense and submit said materials to District for its approval which approval must be obtained prior to letting any contract or allowing construction. The plans, specifications and drawings shall fully comply with all applicable rules, regulations and ordinances of District including, but not limited to, District's "Standard Specifications on Standard Drawings for Water and Sewer Facilities".

C. All construction of Water System shall be done by qualified and properly licensed contractors. The prime contractor for the work shall be required to have a "C-34" or General Engineering "A" license and shall be experienced in the construction of domestic water systems. The qualifications of the prime contractor for the work must be approved by District in advance of any work being done on the system.

D. Water construction drawings for said Water System shall be approved by District prior to the presentation thereof to contractors for bidding purposes and said Water System shall be constructed and installed in full compliance with said approved water construction drawings and District specifications referenced in paragraph B above.

E. Prior to acceptance of the Water System by District, District will require:

- (1) Submittal to District of _____ sets of "as built" drawings.
- (2) Evidence satisfactory to District that Developer can grant the Water System to District free and clear of all liens, claims and encumbrances.
- (3) Evidence satisfactory to District and subject to physical inspection that the Water System has been constructed pursuant to the terms and conditions of this Agreement and is in good condition and repair.
- (4) A Faithful Performance Bond satisfactory to District bonding compliance with this Agreement and the terms and conditions hereof.
- (5) All fees and charges of District have been paid in full.
- (6) An unconditional lien waiver release.
- (7) Recordation of the Notice of Completion.

(8) A form of Grant Deed of the Water System satisfactory to District.

F. District will not accept the Water System or be responsible for it in any way until District has accepted the Water System in writing. Any damage to the Water System prior to acceptance will be solely the responsibility of Developer.

G. Developer will protect all existing District Facilities in place and will immediately repair or replace any District facility damaged as a result of work or other activity in connection with the Development.

H. Developer will pay, on demand, all costs incurred by District in connection with this Agreement including, but not limited to, the cost to District of an inspector or inspectors to inspect the work in progress and the completed work for compliance with this Agreement and testing if reasonably required. All rates paid will be reasonable and in accord with local applicable rates at the time of inspection, review or testing.

3. Construction shall not begin until District issues a "Notice to Proceed". Prior to District issuing "Notice to Proceed", Developer shall submit the following:

A. Copy of contract between Developer and Contractor verifying cost of Water System construction.

B. Certification of streets to final grade.

C. Certificates of insurance for contractor and all subcontractors in a form satisfactory to District. The insurance company shall be rated A in the latest issue of Best's Key Rating Guide, Property-Casualty, Written by A. M. Best Company.

D. A faithful performance bond with corporate surety or sureties satisfactory to the District. The bonding company shall be rated A in the latest issue of Best's Key Rating Guide, Property-Casualty, Written by A. M. Best Company) on District form. If separate City/County bonding is required, Developer can submit approved City/County bonding in lieu of District bond. Said performance bond shall be for not less than one hundred percent (100%) of the total contract price. Said bond guarantees the completion of the Water System (including submission of the Unconditional Lien Waiver and Release and the Water System Grant Deed) and guarantees the materials and workmanship of the installed domestic Water System against failures of any type for one (1) year from the date of the filing of the "Notice of Completion". Said bond shall provide for the payment of all costs incurred by the District for the repair of such failures within the one (1) year guarantee period.

4. In the event construction of the Water System does not commence prior to _____, 20____, District may, at its option, cancel this Agreement by written notice to Developer; provided, however, that in the event such cancellation does not occur within sixty (60) days after said date, such cancellation shall require sixty (60) days' advance notice and, if construction commences during the sixty (60) day notice period, the cancellation shall not be effective.

In the event the Water System has not been accepted by District prior to _____, 20____, District may, at its option, cancel this Agreement upon sixty (60) days' written notice to Developer. If during the sixty (60) day notice period, Developer completes the Water System and complies with the conditions precedent to acceptance of the Water System by District, the cancellation shall not be effective.

In the event of cancellation under this paragraph, District's obligation to accept the Water System and to furnish water service to the Development shall cease and District shall retain all amounts previously paid to District hereunder.

Nothing herein shall be construed to prevent District from accepting the Water System or furnishing water service to the Development on such other terms and conditions as District may agree.

5. Developer agrees to indemnify and save District, its employees and agents free and harmless from any and all liabilities, loss, damage or injury to persons or property arising out of or in connection with construction of the Water System as herein provided.

6. In the event either party brings an action in court to enforce any term, provision or condition hereof, or to recover damages for any default hereunder, the prevailing party shall be entitled to recover its reasonable attorney's fees.

7. This Agreement is not assignable by Developer without the express written consent of District. Subject to that condition, this Agreement shall be binding upon and inure to the benefit of the successors and assigns of the parties hereto.

8. Whenever in this Agreement notice is required to be given, the same shall be given by certified mail, postage prepaid, addressed to the respective parties at the following addresses:

To District: LEE LAKE WATER DISTRICT
 22646 Temescal Canyon Road
 Corona, California 92883

To Developer: _____

9. This Agreement contains all of the terms, conditions and agreements of the parties relating to the subject matter hereof and no amendment or alteration hereof shall be effective for any purpose unless contained in a writing duly executed by the parties hereto.

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

LEE LAKE WATER DISTRICT

DEVELOPER

By: _____
General Manager

Company: _____

Date: _____

By: _____

Name: _____

Title: _____

Date: _____

APPENDIX M

CERTIFICATION OF STREETS TO FINAL GRADE

TO: LEE LAKE WATER DISTRICT

FROM: _____

(ADDRESS) _____

SUBJECT: Certification of Streets to Final Grade

Tract Map No. _____, or

Parcel Map No. _____

1. There has been executed a "WATER SYSTEM CONSTRUCTION AGREEMENT" for the water mains described above; said Agreement being between:
 - a. The Lee Lake Water District, hereinafter designated as the "District";
 - b. _____
hereinafter designated as the "Developer".

All terms and conditions of said Agreement are hereby incorporated by reference.

2. Pursuant to Section 3 of said Agreement, the Developer certifies that all streets requiring water mains are to the required Final Grade and ready for installation of water mains; wherein the Final Grade shall be defined as the finished grade of the street base or sub-base required by the Riverside County Road Department, or the District.
3. Developer agrees that if there is a change required in the final grade of the street which occurs during or after the construction of the water mains, and requires the relocation of any water facilities, the Developer will make full payment for all costs necessary to relocate said water facilities.

Developer: _____

Address: _____

City/State/Zip: _____

Telephone: _____

Authorized Agent (sign): _____

Name (type): _____

Title: _____

APPENDIX N

CERTIFICATE OF INSURANCE

**CERTIFICATE OF INSURANCE
LEE LAKE WATER DISTRICT**

This certifies to the LEE LAKE WATER DISTRICT, located at 22646 Temescal Canyon Road, Corona, California 92883, that the following described policies have been issued to:

Insured: _____

Address: _____

Coverage is provided for the following operation (s)/locations(s):

Type of Insurance	Insurer of Policy No.	Policy Expiration Date	Each Occurrence	Aggregate Limits of Liability in thousands (000) Policy Covers
GENERAL LIABILITY-"Occurrence" Policies Only				
<input type="checkbox"/> Comprehensive Form		BODILY		
<input type="checkbox"/> Premises-Operations		INJURY	\$	\$
<input type="checkbox"/> Owners & Contractors Protective				
<input type="checkbox"/> Blanket Contractual		PROPERTY		
<input type="checkbox"/> Products and/or Completed Operations		DAMAGE	\$	\$
		BODILY	\$	\$
		INJURY & PROPERTY		
<input type="checkbox"/> Explosion & collapse Hazard		DAMAGE COMBINED		
<input type="checkbox"/> Underground Hazard				
<input type="checkbox"/> Broad Form Property Damage				
<input type="checkbox"/> Policy to include severability of interest clause				
<input type="checkbox"/> Personal Injury Exclusion "C" Removed				
		PERSONAL INJURY	\$	\$

(Coverage shall be at least as broad as Insurance Service Office Form No. GL 0002 covering Comprehensive General Liability and Insurance Service Office Form No. GL 004 covering Broad Form Comprehensive General Liability; Broad Form Comprehensive General Liability; or Insurance Service Office Commercial General Liability coverage, Occurrence Form No. CG 0001).

AUTOMOBILE LIABILITY - "Occurrence" Policies Only

<input type="checkbox"/> Comprehensive Form	BODILY INJURY (EACH PERSON)	\$
<input type="checkbox"/> Owned	BODILY INJURY (EACH OCCURRENCE)	\$
<input type="checkbox"/> Hired	<hr/> PROPERTY DAMAGE <hr/>	
<input type="checkbox"/> Non-owned	BODILY INJURY PROPERTY DAMAGE COMBINED	\$

(Coverage shall be at least as broad as Insurance Service Office form number CA 0001 covering automobile liability, Code 1 "any auto" and endorsement number CA 0025.)

EXCESS LIABILITY - "Occurrence" Policies Only

<input type="checkbox"/> Umbrella form	BODILY INJURY & PROPERTY DAMAGE	\$
<input type="checkbox"/> Other than umbrella form	COMBINED	
<hr/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	STATUTORY	<hr/> \$ (EACH ACCIDENT)

(Coverage shall be as broad as required by the Labor Code of the State of California and Employer's liability coverage.)

BUILDERS RISK (FIRE "ALL RISK") - "Occurrence" Policies Only ON 100% OF COMPLETED VALUE BASIS – \$

The following provisions apply:

1. The Lee Lake Water District, its officers, agents, employees, and consultants are hereby declared to be additional insureds on all of the above-mentioned described liability insurance policies, as respects the operations of the named insured at or from the premises of the Lee Lake Water District described above.

2. The above-described liability insurance policies are primary insurance and no insurance held or owned by the designated additional insureds shall be called upon or looked to in order to cover a loss under said policy; the Lee Lake Water District shall not be liable for the payment of premiums or assessments under these policies.

3. None of the above-described policies will be canceled, limited or non-renewed until thirty (30) days after receipt by the Lee Lake Water District or a written notice of such cancellation or reduction of coverage as evidenced by receipt of a registered letter.

4. The insured(s) issuing the above described workers' compensation and/or builders risk insurance policies waives all rights of subrogation against the Lee Lake Water District, its officers, agents, employees, and consultants, designated as additional insured.

5. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the Lee Lake Water District, the Owner's Representative, the Engineer/Architect and their officers, agents, employees, consultants, and volunteers.

6. The named insured(s) insurance coverage shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insured's liability.

Insurance Agency: _____

Address: _____

Authorized Representative: _____

Phone: _____

Date: _____

APPENDIX "N"

APPENDIX O

FAITHFUL PERFORMANCE BOND

**FAITHFUL PERFORMANCE BOND
FOR
WATER SYSTEM CONSTRUCTION AGREEMENT**

KNOWN ALL PERSONS BY THESE PRESENTS: That WHEREAS, the Lee Lake Water District, has entered into a Water System Construction Agreement (All terms and conditions of said Agreement are hereby incorporated by reference) with _____ as Principal, (hereinafter designated as the "Developer"), for construction of:

_____;

WHEREAS, said Principal is required under the terms of said Agreement to furnish a bond for the faithful performance of said contract.

NOW, THEREFORE, we, _____, as Developer, and _____ as Surety, are held and firmly bound unto the Lee Lake Water District (hereinafter called the "District"), in the sum of _____

DOLLARS (\$_____) (this amount being not less than one hundred percent (100%) of the total price of the work), lawful money of the United States of America, for payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, if the hereby bonded Developer, its heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by and well and truly keep and perform all the undertakings, terms, covenants, and conditions in said Agreement and any alteration thereof, made as therein provided, all within the time and in the manner therein designated in all respects according to their true intent and meaning, then this obligation shall become null and void; otherwise it shall be and remain in full force and effect until Developer has completed construction of the facilities including repair of any damage of

existing District facilities and provided District with an Unconditional Lien Waiver and Release and a Water System Grant Deed and has paid all fees and charges.

As a condition precedent to the satisfactory completion of the work (including submission of the Unconditional Lien Waiver and Release, submission of the Water System Grant Deed, payment of all fees and charges, and repair of any damage of existing District facilities), the above obligation shall hold good for a period of one (1) year after the completion of the Work and filing of the Notice of Completion by the district, during which time if Developer shall fail to make full, complete, and satisfactory repair and replacements and totally protect the District from loss or damage made evident during the period of one (1) year from the date of filing of the Notice of Completion by the District, and resulting from or caused by defective materials or faulty workmanship, the above obligation in penal sum thereof shall remain in full force and effect. Notwithstanding anything in this paragraph to the contrary, the obligation of Surety hereunder shall continue so long as any obligation of Developer remains.

FURTHER, the said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or modification of the Agreement, or of the work to be performed thereunder, shall in any way affect its obligations on this bond; and it does hereby waive notice of any change, extension of time, alteration or modification of the Agreement or of work to be performed thereunder.

IN WITNESS WHEREOF, two (2) identical counterparts of this instrument, each of which shall for all purposes be deemed an original thereof, have been duly executed by the Developer and Surety named therein, on the _____ day of _____, 20____, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

Developer (seal)

Name: _____

Title: _____

Signature: _____

Surety (seal)

Name: _____

Title: _____

APPROVED AS TO FORM:
Clayson, Mann, Arend & Yeager
District Legal Counsel

Signature: _____

Address: _____

By: _____

(SEAL AND NOTARIAL
ACKNOWLEDGEMENT OF SURETY)

APPENDIX P

UNMETERED CONSTRUCTION WATER APPLICATION

UNMETERED CONSTRUCTION WATER APPLICATION

Temporary connections for house construction are necessary during the drywall installation phase; therefore, the service category of unmetered construction water is available.

The service is available for construction only. This service is not to be used for landscaping or any domestic/commercial use. Unauthorized use is subject to the conditions, as established in Penal Code Section 498, attached, and immediate discontinuance of water service.

A \$ _____ monthly charge covers unmetered water use, standby charge, and periodic inspection by the Meter and Inspection Department personnel.

Prior to connection by the builder, the District Engineer will verify the following:

- (1) In-tract water system has been tested and disinfected;
- (2) Service laterals have been installed with an extra length extending a minimum of two feet above ultimate grade and 2" x 4" stakes (4 feet in length) have been installed to mark the location of the service lateral. Said stakes shall provide for temporary mounting of the extended service lateral with double check valves, for the protection of the existing system.

At such time as the developer has completed all utility installations and established final grade to the satisfaction of the District, the temporary connection shall be removed, the delivery of water discontinued completely, and the service shall be completed in accordance with the District standard specifications.

After services have been accepted and approved by the District Engineer, approximately two weeks is required before meters are installed.

In accordance with the Water System Construction Agreement (all terms and conditions of said Agreement are herein incorporated by reference), the District is not responsible and does not own the water system facilities until said system is transferred to the District. Until such time, Developer is responsible for the facilities and is liable for all damage to said facilities.

I/we hereby acknowledge my/our understanding of the aforementioned conditions and intention of unmetered construction water use.

Service Applicant Signature

Date

APPENDIX Q

UNCONDITIONAL LIEN WAIVER AND RELEASE

UNCONDITIONAL LIEN WAIVER AND RELEASE

DATE: _____

TO WHOM IT MAY CONCERN:

The undersigned has been paid in full for all labor, services, equipment or materials furnished to _____ ("Contractor") on the job for the Lee Lake Water District ("District") located at _____ in the County of Riverside, State of California ("Property").

The undersigned does hereby waive and release Contractor and District from any and all liability for liens for all materials delivered and labor performed by it, all Mechanic's Liens, including ones that have been recorded, Stop Notices, or any right against a Labor and Material Bond, to or for the Job and the Property on which it is located.

This Unconditional Lien Waiver and Release, materials and Labor, is made in accordance with Civil Code Section 3262 and Section 5 of the Water System Construction Agreement between Lee Lake Water District and Developer _____, dated _____.

NOTICE: THIS DOCUMENT WAIVES RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL RELEASE FORM.

	Firms Name
	Address
	City, State By:
	Authorized Representative

APPENDIX R

WATER SYSTEM GRANT DEED

W.O. _____

WATER SYSTEM GRANT DEED

FOR VALUABLE CONSIDERATION paid and received,

_____ hereby grant(s) to Lee Lake Water District all right, title and interest in the water system improvements for the entire domestic water distribution system facilities for the development referenced with records of the County of Riverside, State of California as _____ and agrees to indemnify the District for any and all claims, liens, causes of action or any type of liability arising from or in any way related to the construction of said facilities.

Said water system improvements are shown in detail on the construction drawings (Sheets _____ thru _____) for said development. This Grant Deed is in accordance with Section 5 of the Water System Agreement between Lee Lake Water District and dated _____, and is effective upon Developer providing the Unconditional Lien Waiver and Release and upon filing of the Notice of Completion by the District for the aforementioned water system improvements.

SELLERS for his heirs, executors and administrators, covenants and agrees to warrant and defend this sale of property, goods and chattels, against all and every persons claiming the same.

DATE: _____

BY: _____

SEAL AND NOTARIAL ACKNOWLEDGEMENT