

EL TORO WATER DISTRICT

GENERAL NOTES

1. EL TORO WATER DISTRICT REQUIRES A PRECONSTRUCTION MEETING PRIOR TO COMMENCEMENT OF ANY WORK. ETWD SHALL BE NOTIFIED AT LEAST 48 HOURS (2 working days) PRIOR TO CONSTRUCTION: PHONE: (949) 837-0660.
2. ALL OTHER UTILITIES SHALL BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION THROUGH UNDERGROUND SERVICE ALERT: 811.

IN AREAS OF POSSIBLE CONFLICT OF WATER OR SEWER LINE AND OTHER UTILITIES, CONTRACTOR SHALL CAREFULLY HAND EXCAVATE, EXPOSE AND LOCATE THOSE FACILITIES.
3. CONTRACTOR/DEVELOPER SHALL SUBMIT PROPER INSURANCE DOCUMENTATION NAMING EL TORO WATER DISTRICT AS ADDITIONALLY INSURED PRIOR TO COMMENCEMENT OF WORK.
4. WATER AND SEWER SYSTEM MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE DISTRICT.
5. CAPITAL FACILITIES FEES SHALL BE BASED ON ULTIMATE DEVELOPER / TENANT IMPROVEMENT.
6. ALL CONSTRUCTION PROCEDURES SHALL CONFORM TO ALL APPLICABLE ETWD AND OTHER REGULATORY SAFETY REQUIREMENTS.
7. CONTRACTOR SHALL SUBMIT TO THE ETWD INSPECTOR AN "AS BUILT" PRINT PRIOR TO RELEASE FOR OCCUPANCY. INFORMATION TO BE CALLED OUT FOR WATER ARE THE DISTANCES BETWEEN VALVES, TEES, BENDS, FIRE HYDRANTS, AND SERVICE LINE TAPS ALONG MAIN LINE, ALONG WITH ANY CHANGE IN ANGLE METER STOP LOCATION AT PROPERTY LINE. FOR SEWER, CALL OUT THE DISTANCES BETWEEN MANHOLES AND THEIR DEPTH TO TOP OF CONE, ALONG WITH ANY CHANGE IN STATIONING ON LATERALS AT THE MAIN LINE OR AT PROPERTY LINE.

WATER NOTES

8. CURB AND GUTTER MUST BE INSTALLED PRIOR TO INSTALLATION OF WATER MAINS.
9. WATER METERS SHALL BE STAKED BY DEVELOPER'S ENGINEER AND SHOWN ON WATER PLAN WITH DIMENSIONS TO NEAREST LOT PROPERTY LINE ALONG RIGHT OF WAY.
10. WATER METER BOXES SHALL BE A MINIMUM OF FIVE (5) FEET FROM ANY DRIVEWAY AND SHALL NOT BE INSTALLED IN SIDEWALKS OR OTHER CONCRETE AREAS WITHOUT PRIOR WRITTEN APPROVAL FROM THE DISTRICT.
11. ALL WATER SERVICE LINES SHALL BE CHISEL MARKED WITH A 'W' ON THE FACE OF THE CURB WHERE IT PASSES UNDER CURB.
12. THE DISTRICT MUST APPROVE ADDITIONS OR RESIZING OF ANY WATER METER BY REVISION TO THIS PLAN.

WATER NOTES (cont.)

13. ALL VALVES SHALL BE CHISEL MARKED IN THE NEAREST CURB FACE WITH A 'V' AND FOOTAGE FROM CURB FACE TO VALVE. WHERE VALVE IS IN AN INTERSECTION, TWO CHISEL MARKS FROM DIFFERENT CURB FACES AT THE NEAREST B.C. SHALL BE GIVEN. WHERE VALVE IS IN MID-BLOCK, ONE CHISEL MARK AT A RIGHT ANGLE TO THE VALVE SHALL BE GIVEN.
14. ALL VALVES MUST BE OPERATED BY THE DISTRICT. FAILURE TO DO SO SHALL RESULT IN CLOSURE OF PROJECT.
15. HYDROSTATIC TESTS SHALL BE PERFORMED ON ALL WATER FACILITIES BY AN APPROVED INDEPENDENT TESTING COMPANY AND RESULTS SHALL BE SUBMITTED IN WRITING TO THE DISTRICT. MINIMUM TESTING REQUIREMENTS ARE 225 PSI FOR TWO HOURS, UNLESS OTHERWISE DIRECTED BY THE INSPECTOR. ALLOWABLE LEAKAGE WILL BE DETERMINED BY SIZE AND LENGTH OF MAIN AND DURATION OF TEST.
16. ALL NEW WATER FACILITIES SHALL BE DISINFECTED IN ACCORDANCE WITH A.W.W.A. C651. CHLORINATED WATER SHALL BE RETAINED IN THE PIPELINE FOR 24 HOURS, AFTER WHICH SAMPLES SHALL CONFIRM A MINIMUM RESIDUAL OF 25 PPM.
17. PRIOR TO CONNECTION OF THE NEW WATER FACILITIES TO EXISTING WATER FACILITIES, THE NEW FACILITIES SHALL PASS BACTERIOLOGICAL TESTS. THE NUMBER AND LOCATION OF TESTS REQUIRED SHALL BE AT THE DISCRETION OF THE ETWD INSPECTOR. THE CONTRACTOR SHALL HAVE THE SAMPLES COLLECTED AND TESTS FOR COLIFORM BACTERIA AND HETEROTROPHIC PLATE COUNT PERFORMED BY AN INDEPENDENT CERTIFIED LABORATORY. THE LABORATORY SHALL SUBMIT A COPY OF EACH TEST TO THE DISTRICT. PASSING RESULTS ARE NEGATIVE COLIFORM AND PLATES COUNTS LESS THAN 500 COLONIES/mL.
18. ALL NEW WATER FACILITIES SHALL BE FLUSHED AFTER SATISFACTORY TESTING RESULTS ARE OBTAINED.
19. FIRE HYDRANTS SHALL BE PER DISTRICT STANDARDS AND SPECIFICATIONS. THE 4" FIRE HYDRANT OPENING SHALL FACE THE STREET. FIRE HYDRANTS THAT ARE NOT IN SIDEWALK AREAS SHALL HAVE A MINIMUM OF 3' X 3' X 4" THICK PAD POURED AROUND IT. PUBLIC FIRE HYDRANTS SHALL BE PAINTED "SCHOOLBUS YELLOW" OR APPROVED EQUAL BEFORE RELEASE FOR OCCUPANCY. PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED.
20. FOR NEW FIRE SERVICE CONNECTIONS, PRESSURE TEST THE NEW PIPELINE UP TO THE FIRST ABOVE GROUND RISER FLANGE, UNLESS OTHERWISE DIRECTED BY THE DISTRICT INSPECTOR.
21. ALL BELOW GROUND IRRIGATION PIPING AND APPURTENANCES SHALL COMPLY WITH A.W.W.A. GUIDELINES FOR DISTRIBUTION OF NON-POTABLE WATER.

SEWER NOTES

22. LOCATION FOR SEWER LATERALS (HOUSE CONNECTIONS) AND MANHOLES SHALL BE STAKED BY DEVELOPER'S ENGINEER AND SHOWN ON SEWER PLAN BY STATIONING. STATION (0+00) WILL BE ON THE LOWEST MANHOLE OF THE DEVELOPMENT.
23. SEWER LATERALS SHALL BE CHISEL MARKED WITH AN 'S' ON CURB FACE WHERE LATERAL CROSSES UNDER CURB.
24. SEWER MANHOLE LOCATIONS SHALL BE CHISEL MARKED ON THE NEAREST CURB FACE WITH A 'MH' AND FOOTAGE FROM CURB FACE TO CENTER OF MANHOLE. WHERE THE MANHOLE IS IN AN INTERSECTION, TWO CHISEL MARKS FROM DIFFERENT CURB FACES AT THE NEAREST B.C. SHALL BE GIVEN. WHERE MANHOLE IS IN MID-BLOCK, ONE CHISEL MARK SHALL BE GIVEN AT A RIGHT ANGLE TO THE MANHOLE.
25. SEWER PIPE BEDDING SHALL BE CRUSHED ROCK UNLESS OTHERWISE SPECIFIED.
26. TESTING OF FACILITIES SHALL BE IN ACCORDANCE WITH ETWD STANDARDS AND SPECIFICATIONS TO INCLUDE INSPECTION BY A T.V. CAMERA SPECIFICALLY DESIGNED FOR SEWER INSPECTION.
27. GREASE INTERCEPTORS OR CONTROL DEVICES MAY BE REQUIRED FOR FOOD SERVICE ESTABLISHMENTS (FSE) WITHIN THE DISTRICT SERVICE AREA, AS DETERMINED BY THE FOG CONTROL PROGRAM MANAGER.
28. MANHOLES OR SAMPLING POINTS MAY BE REQUIRED FOR NEW COMMERCIAL CONNECTIONS, AS DETERMINED BY THE DISTRICT.
29. INDUSTRIAL WASTE OR FSE FOG APPLICATION – WHICHEVER IS APPLICABLE - MUST BE SUBMITTED AND APPROVED BY THE DISTRICT WITH A SITE INSPECTION PRIOR TO RELEASE FOR OCCUPANCY.

APPROVED; EL TORO WATER DISTRICT

DENNIS P. CAFFERTY
GENERAL MANAGER /
DISTRICT ENGINEER

DATE