

WATER DISTRICT NO. 125 STANDARD NOTES:

1. APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATIONS SHOWN AND FOR DISCOVERY OF POSSIBLE ADDITIONAL UTILITIES NOT SHOWN SO AS TO AVOID DAMAGE OR DISTURBANCE. THE CONTRACTOR SHALL CONTACT THE UTILITIES UNDERGROUND LOCATION CENTER (1-800-424-5555) PRIOR TO CONSTRUCTION. THE OWNER OR HIS REPRESENTATIVE SHALL BE CONTACTED IF A UTILITY CONFLICT EXISTS.
2. CONTRACTOR SHALL NOTIFY THE DISTRICT ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE OF ALL REQUESTS FOR STAKING, TESTING OR INSPECTION.
3. CONTRACTOR IS RESPONSIBLE FOR CONTROL AT THE TIME OF STAKING.
4. CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR APPROVAL WHERE REQUIRED BY THE DETAIL SPECIFICATIONS AND FOR VARIATION FROM THE ENGINEER'S DESIGN.
5. CONTRACTOR SHALL INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, WD #125 SPECIFICATIONS, AND (CITY OF TUKWILA / CITY OF SEATAC / KING COUNTY) STANDARDS.
6. CONTRACTOR SHALL FURNISH ALL MATERIALS.
7. ALL WATERMAIN PIPE SHALL BE DUCTILE IRON CLASS 52, PUSH-ON JOINT OR MECHANICAL JOINT, CEMENT LINED (ANSI A21.4), EXTERIOR COATED WITH COAL TAR VARNISH. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ALL FITTINGS SHALL BE CAST IRON OR DUCTILE IRON AND SHALL CONFORM TO APPLICABLE PORTIONS OF ANSI STANDARD A21.10, A21.11, B16.2, B16.4 AND A21.53, WITH A MINIMUM PRESSURE RATING OF 150 PSI AND WILL BE CEMENT LINED.
8. NSF-CERTIFIED MATERIALS MUST BE USED FOR ANYTHING THAT IS IN CONTACT WITH POTABLE WATER.
9. ALL GATE VALVES TO BE CLOW, KENNEDY, M&H OR MUELLER AND MEET AWWA C515. ALL HYDRANTS ARE TO BE CLOW, KENNEDY, M&H OR MUELLER AND IN CONFORMANCE WITH AWWA STANDARD SPEC. C-502. GATE VALVES SHALL BE DUCTILE IRON BODY VALVES WITH RESILIENT WEDGE CONFORMING TO THE LATEST REVISION OF AWWA STANDARD C515 AND SHALL BE NSF 61 APPROVED.
10. CUT-INS AND LIVE TAPS TO BE MADE BY CONTRACTOR. WD #125 SUPERINTENDENT, ENGINEER AND (CITY OF TUKWILA / CITY OF SEATAC / KING COUNTY) INSPECTOR MUST BE NOTIFIED 48 HOURS IN ADVANCE.
11. DUCTILE IRON MECHANICAL JOINT SLEEVES REQUIRED.
12. TAPPING SLEEVES SHALL BE MUELLER CAST IRON, JCM EPOXY COATED STEEL, OR ROMAC SST WITH STAINLESS STEEL FLANGE. SIZE ON SIZE TAPS ARE TO BE MUELLER CAST IRON.
13. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING PIPE TYPES AND SIZES FOR COUPLINGS, CONNECTIONS, CUT-INS, AND LIVE TAPS.
14. 3½- FOOT MINIMUM COVER OVER ALL WATERMAINS.
15. DEVELOPER TO PAY FOR STATE, COUNTY AND CITY INSPECTION FEES AND PERMITS.
16. ALL METER LOCATIONS TO BE COORDINATED WITH WATER DISTRICT NO. 125 SUPERINTENDENT.
17. ALL EXISTING FIRE HYDRANTS AND MAINS TO BE OPERATIONAL PRIOR TO COMMENCEMENT OF CONSTRUCTION.
18. NO CHANGES ARE TO BE MADE WITHOUT WRITTEN APPROVAL BY THE WD #125 SUPERINTENDENT OR DISTRICT ENGINEER AND THE CITY OF TUKWILA / SEATAC / KING COUNTY PUBLIC WORKS ENGINEER.
19. REFER TO WD #125 CONDITIONS AND STANDARDS, AND TO THE (CITY OF TUKWILA / CITY OF SEATAC / KING COUNTY) STANDARD SPECIFICATIONS FOR ALL REMAINING NOTES AND DETAILS.
20. PROVIDE 3/4" SERVICE LINE (1" IN THE CITY OF TUKWILA) AND TAP CONNECTIONS FOR EACH EXISTING WATER METER.

21. MAXIMUM ALLOWABLE OPEN TRENCH SHALL BE 80'.
22. STOCKPILES SHALL BE COVERED DURING ALL PERIODS OF PRECIPITATION.
23. MODIFIED PROCTOR COMPACTION AND MOISTURE CONTROL TESTS REQUIRED AND COPIES OF TEST REPORTS SUBMITTED TO THE DISTRICT ENGINEER. ALL COMPACTION UNDER PAVED AND TRAFFIC AREAS SHALL BE 95% MAXIMUM DENSITY MODIFIED PROCTOR PER ASTM D-1557. ALL OTHER AREAS TO BE 90% MAXIMUM DENSITY MODIFIED PROCTOR.
24. ALL VALVES, FIRE HYDRANTS AND SERVICES TO THE METER STOP TO BE INCLUDED AS PART OF ALL PRESSURE AND PURITY TESTS. NO EXCEPTIONS.
25. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH (CITY OF TUKWILA / CITY OF SEATAC / KING COUNTY) REQUIREMENTS.
26. ALL PIPE AND APPURTENANCES TO BE TESTED WITHIN 10 FEET OF ANY CONNECTION POINTS UNLESS OTHERWISE APPROVED BY ENGINEER.
27. CONCRETE THRUST BLOCKING SHALL BE PROVIDED AT ALL BENDS, TEES, OR OTHER APPURTENANCES WHERE INTERNAL FORCES REQUIRE RESTRAINT. BLOCKING SHALL BE IN ACCORDANCE WITH WATER DISTRICT NO. 125 STANDARDS. RESTRAINED JOINT PIPE AND BENDS SHALL BE USED IN LIEU OF BLOCKS WHERE THERE ARE UTILITY PROXIMITY CONFLICTS OR WHERE BEARING SOIL HAS BEEN DISTURBED IF APPROVED BY SUPERINTENDENT OR ENGINEER.
28. ALL BENDS INSTALLED AS PART OF CONNECTIONS TO EXISTING MAINS SHALL BE RESTRAINED WITH 350 PSI EBBA MEGALUG, STARGRIP SERIES 3000, OR ROMAC ROMAGRIP RETAINER GLANDS AND PROVIDED WITH THRUST BLOCKS.
29. THE TESTING AND DISINFECTION OF THE WATER SYSTEM SHALL BE WITNESSED BY WATER DISTRICT NO 125.
30. RESIDENTIAL DOMESTIC WATER SERVICE CONNECTIONS: DOMESTIC WATER SERVICE CONNECTIONS TO SINGLE-FAMILY RESIDENTIAL PROPERTIES SHALL HAVE BACKFLOW PROTECTION WITHIN EIGHTEEN INCHES (18") OF THE WATER METER TAIL COMMENSURATE WITH THE DEGREE OF HAZARD WHEN ANY OF THE FOLLOWING ITEMS ARE FED BY OR CONNECTED TO THE DOMESTIC WATER SYSTEM ON THE PROPERTY:
 - A) LAWN OR GARDEN SPRINKLER IRRIGATION SYSTEMS
 - B) FIRE SUPPRESSION SYSTEMS
 - C) POOLS, HOT TUBS OR SPAS (ABOVE OR BELOW GROUND)
 - D) GREENHOUSES
 - E) FISH AND/OR AESTHETIC PONDS
 - F) BOILER
 - G) ANY OTHER USE DECLARED TO BE A HEALTH HAZARD OR CONCERN BY THE GENERAL MANAGER OF THE KING COUNTY WATER DISTRICT 125.
31. COMMERCIAL DOMESTIC WATER SERVICE CONNECTIONS: FOR ALL CONNECTIONS TO THE WATER MAINS OF THE KING COUNTY WATER DISTRICT 125 NOT LISTED ABOVE, THE FOLLOWING REQUIREMENTS APPLY TO ALL THE CONSUMERS:
 - A) ALL COMMERCIAL DOMESTIC WATER SERVICE CONNECTIONS SHALL HAVE A BACKFLOW ASSEMBLY INSTALLED WITHIN EIGHTEEN INCHES (18") OF THE WATER METER TAIL (CUSTOMER'S SIDE OF THE METER) COMMENSURATE WITH THE HIGHEST DEGREE OF HAZARD OF THE OCCUPANT(S) AS DETERMINED BY THE GENERAL MANAGER OR A CROSS CONNECTION CONTROL SPECIALIST APPOINTED BY THE DISTRICT.
 - B) NO COMMERCIAL WATER SERVICE SHALL HAVE LESS THAN A DOUBLE CHECK VALVE ASSEMBLY (DCVA) FOR BACKFLOW PREVENTION.
 - C) REDUCED PRESSURE BACKFLOW ASSEMBLY (RPBA) SHALL BE INSTALLED ON ALL WATER SERVICES FOR OCCUPANTS WITH POTENTIAL POLLUTION OR CONTAMINATION HAZARDS AS LISTED IN WAC 246-290-490 TABLE 9 OR SIMILAR OCCUPANTS.
 - D) REDUCED PRESSURE BACKFLOW ASSEMBLY (RPBA) SHALL BE INSTALLED ON ALL WATER SERVICES FOR COMMERCIAL STRUCTURES THAT OCCUPY MORE

THAN ONE TENANT.

- E) ALL COMMERCIAL IRRIGATION SYSTEMS SHALL HAVE A BACKFLOW ASSEMBLY INSTALLED WITHIN EIGHTEEN INCHES (18") OF THE WATER METER TAIL (CUSTOMER'S SIDE OF THE METER) OR WITHIN TWELVE INCHES (12") DOWNSTREAM OF THE VALVED CONNECTION TO THE POTABLE WATER SUPPLY.
- F) ALL IRRIGATION SYSTEMS WITH EXISTING OR POTENTIAL CHEMICAL ADDITION, INCLUDING ANTIFREEZE, SHALL HAVE A REDUCED PRESSURE BACKFLOW ASSEMBLY.
- G) NO IRRIGATION SYSTEM SHALL HAVE LESS THAN A DOUBLE CHECK VALVE ASSEMBLY (DCVA) FOR BACKFLOW PROTECTION.

COMMERCIAL FIRE SPRINKLER SERVICE CONNECTIONS:

- H) ALL FIRE SPRINKLER SERVICE CONNECTIONS SHALL HAVE BACKFLOW PREVENTION ASSEMBLIES WITH A DETECTING (METERED) BYPASS.
- I) BACKFLOW ASSEMBLIES SHALL BE EITHER:
 - A. LOCATED IN A VAULT ON PRIVATE PROPERTY ADJACENT TO THE PUBLIC RIGHT-OF-WAY SUCH THAT THE DISTANCE BETWEEN THE SUPPLYING WATER MAIN AND THE BACKFLOW ASSEMBLY IS THE SHORTEST REASONABLE DISTANCE NOT TO EXCEED 50 FEET. WHEN THE SUPPLYING WATER MAIN IS ON PRIVATE PROPERTY, THE BACKFLOW ASSEMBLY SHALL BE LOCATED AS CLOSE TO THE WATER MAIN TAP AS REASONABLY POSSIBLE.
 - B. WITHIN THE BUILDING'S MECHANICAL ROOM. WITH AN INTERIOR OR INSTALLATION, A REMOTE METER REGISTER SHALL BE SUPPLIED WITH BACKFLOW DEVICE AND MOUNTED ON THE EXTERIOR OF THE BUILDING IN LOCATION ACCESSIBLE AT ALL TIME TO DISTRICT PERSONNEL.
- J) ALL FIRE SYSTEMS WITHOUT ANTIFREEZE, CHEMICAL ADDITION, OR FIRE DEPARTMENT CONNECTIONS (FDC) SHALL HAVE A MINIMUM OF A DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) AS THE BACKFLOW PREVENTER.
- K) FIRE SYSTEMS WITH ANTIFREEZE, CHEMICAL ADDITION, OR FIRE DEPARTMENT CONNECTIONS (FDC) SHALL HAVE A REDUCED PRESSURE PRINCIPLE DETECTOR ASSEMBLY (RPDA).

TEMPORARY CONNECTIONS:

- L) ALL TEMPORARY CONNECTIONS WILL BE REQUIRED TO HAVE CROSS CONNECTION PROTECTION. THE TYPE OF PROTECTION REQUIRED WILL BE DETERMINED ON A CASE-BY-CASE BASIS BY THE DISTRICT GENERAL MANAGER OR CROSS CONNECTION CONTROL SPECIALIST.

ADD THE FOLLOWING NOTES WHEN WORKING IN THE CITY OF SEATAC:

- 32. CONTRACTOR IS TO OBTAIN CITY CONSTRUCTION PERMIT PRIOR TO STARTING ANY WORK WITHIN THE RIGHT-OF-WAY IN THE CITY OF TUKWILA OR SEATAC AND SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL TERMS AND CONDITIONS OF RIGHT-OF-WAY PERMIT.
- 33. CONTRACTOR WORKING IN THE CITY OF TUKWILA OR SEATAC IS TO NOTIFY PUBLIC WORKS INSPECTOR A MINIMUM 48-HOURS PRIOR TO CONSTRUCTION STARTUP AND IS TO SCHEDULE ALL INSPECTION. INSPECTOR SHALL BE PRESENT DURING BACKFILL AND COMPACTION OPERATIONS.
- 34. ALL FIRE HYDRANTS AND/OR GUARD POSTS TO BE PLACED SO AS TO PROVIDE A MINIMUM OF 10' CLEARANCE TO FUTURE ROADWAY LIMITS.
- 35. NEW WATERLINE CONSTRUCTION TO MAINTAIN 4' MINIMUM SEPARATION TO PROPOSED STORM DRAIN LOCATION; OR CONSTRUCTION SHALL BE SCHEDULED TO FOLLOW STORM DRAIN INSTALLATION.