

GENERAL

GENERAL NOTES

G-1. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE CURRENT STANDARD SPECIFICATIONS OF THE OREGON CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA), AND THE AWWA STANDARD SPECIFICATIONS, AND THE CITY OF KLAMATH FALLS STANDARD DRAWINGS, EXCEPTED AS AMENDED IN THESE SPECIAL PROVISIONS.

G-2. DEFINITIONS:

FOR MUNICIPAL WATER, SEWER & STREET: ENGINEER IS THE DIRECTOR OF PUBLIC WORKS OR CITY ENGINEER ENGINEER WHO REPRESENTS THE CITY UNDER WHOSE AUTHORITY THE QUALITY OF WORK AND ACCEPTABILITY OF MATERIALS WILL BE DETERMINED. INSPECTOR IS THE AUTHORIZED REPRESENTATIVE OF THE CITY. DESIGN ENGINEER SHALL BE [NAME OF FIRM].

FOR PRIVATE IMPROVEMENTS:

ENGINEER IS [NAME OF FIRM].

INSPECTOR IS [NAME OF FIRM].

DESIGN ENGINEER SHALL BE [NAME OF FIRM]

PUBLIC IMPROVEMENTS SHALL BE CONSIDERED AS WATER, SANITARY SEWER, GAS, ELECTRIC, TELEPHONE/COMMUNICATIONS AND CABLE TV WITHIN THE MAIN ACCESS STREET RIGHT-OF-WAY. ALL OTHER IMPROVEMENTS SHALL BE DEEMED AS PRIVATE, INCLUDING THE MAIN ACCESS ROAD.

G-3. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE INDUSTRIAL SAFETY REGULATION. THE CITY OF KLAMATH FALLS AND ITS OFFICIALS, THE ENGINEER, AND THE OWNER SHALL NOT BE RESPONSIBLE FOR ENFORCING SAFETY REGULATIONS.

G-4. EXCAVATORS MUST COMPLY WITH THE PROVISIONS OF OAR 952-001-0020.

G-5. ALL CONSTRUCTION PERMITS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND BE INCLUDED IN THE BID.

G-6. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND IMPROVEMENTS.

G-7. THE CONTRACTOR SHALL EXPOSE, VERIFY, CONNECT AND/OR MATCH EXISTING UTILITIES AND IMPROVEMENTS, IN CONFORMANCE WITH THE INTENT OF THESE PLANS AND SPECIFICATIONS, TO PROVIDE COMPLETE AND/OR OPERATIONAL SYSTEMS.

G-8. DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL COORDINATE AND ACCOMMODATE OTHER CONTRACTORS OR OPERATIONS OF OWNER.

G-9. CONTRACTOR SHALL RESTRICT ALL OPERATIONS TO STREET OR DRIVEWAY AREAS WITHIN THE PROJECT BOUNDARIES. ANY DISRUPTION TO NATIVE LANDSCAPES, OUTSIDE OF STREET AND DRIVEWAY AREAS, SHALL BE RESTORED AT NO COST TO THE PROPERTY OWNER.

G-10. CONTRACTOR SHALL NOTIFY CITY OF KLAMATH FALLS AND THE DESIGN ENGINEER TWO WORKING DAYS IN ADVANCE OF STARTING CONSTRUCTION AND SHALL COORDINATE NECESSARY INSPECTIONS THROUGH FINAL CITY APPROVAL. THE CONTRACTOR SHALL NOT COMMENCE ANY WORK WITHOUT FIRST RECEIVING A NOTICE TO PROCEED FROM THE DESIGN ENGINEER AND THE SITE CONSTRUCTION PERMIT.

G-11. THE CONTRACTOR SHALL EMPLOY ALL LABOR, EQUIPMENT, AND METHODS REQUIRED TO PREVENT CONSTRUCTION OPERATIONS FROM PRODUCING DUST IN AMOUNTS DAMAGING TO PROPERTY, CULTIVATED VEGETATION, AND DOMESTIC ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING BUILDINGS IN THE VICINITY OF THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST RESULTING FROM CONSTRUCTION OPERATIONS.

CITY OF KLAMATH FALLS

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*(GENERAL NOTES, CONTINUED)*

G-12. CONTRACTOR SHALL VERIFY ALL CONDITIONS ON THE JOB SITE INCLUDING ALL DIMENSIONS, GRADES ELEVATIONS, EXTENT AND COMPATIBILITY TO THE EXISTING SITE CONDITIONS, AND WITH THE WORK DESCRIBED ON THE DESIGN ENGINEER'S DRAWINGS. ANY DISCREPANCIES OR UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE DESIGN ENGINEER'S ATTENTION IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED WITH ANY OF THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO, THEN IT IS UNDERSTOOD THAT THE CONTRACTOR SHALL BE PROCEEDING AT THE CONTRACTOR'S OWN RISK AND SHALL INCUR ALL COST, IF ANY, TO RESOLVE THE ISSUE TO THE SATISFACTION OF THE ENGINEER.

G-13. ALL WORK AND MATERIALS SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER OF IMPROVEMENTS, BY OBTAINING A WARRANTY BOND IN ACCORDANCE WITH SECTION 11.925(4) OF THE CITY OF KLAMATH FALLS COMMUNITY DEVELOPMENT ORDINANCES. THE WARRANTY FOR ALL INFRASTRUCTURE DOES NOT COMMENCE UNTIL THE FINAL RECORD DRAWINGS HAVE BEEN SUBMITTED TO CITY ENGINEERING.

G-14. CONTRACTOR SHALL MAINTAIN AN ACCURATE SET OF RECORD DRAWINGS AND SHALL SUBMIT THESE TO THE DESIGN ENGINEER WITHIN 7 DAYS OF PROJECT COMPLETION. THE INSPECTOR SHALL ALSO SUBMIT A COPY OF THE INSPECTOR'S NOTES AND ANY AVAILABLE DRAWINGS TO THE DESIGN ENGINEER WITHIN THAT SAME TIME PERIOD. THE DESIGN ENGINEER SHALL SUBMIT A COMPLETE SET OF RECORD DRAWINGS TO CITY ENGINEERING WITHIN 15 DAYS OF RECEIVING THE REQUESTED INFORMATION.

G-15. PLANS ARE APPROVED IN GENERAL ONLY AND DO NOT RELIEVE THE CONTRACTOR AND/OR APPLICANT FROM COMPLETING THE CONSTRUCTION IMPROVEMENTS THAT ARE SATISFACTORY TO THE CITY OF KLAMATH FALLS. FIELD CHANGES MAY BE REQUIRED BY THE PUBLIC WORKS DEPARTMENT OR REPRESENTATIVE. IF REVISIONS ARE MADE IN THE FIELD, AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE CITY INSPECTOR.

G-16. APPLICANT SHALL BE RESPONSIBLE FOR LOCATING AND PRESERVING ALL EXISTING SURVEY MONUMENTATION WITHIN THE WORK AREA IN ACCORDANCE WITH ORS 209.150 AND/OR 209.155. IF MONUMENTATION OR ITS ACCESSORIES ARE INADVERTENTLY OR OTHERWISE DISTURBED OR DESTROYED, APPLICANT SHALL BE RESPONSIBLE FOR ALL COSTS AND COORDINATION ASSOCIATED WITH ITS RE-ESTABLISHMENT BY A PROFESSIONAL OREGON LICENSED SURVEYOR.

G-17. HORIZONTAL/VERTICLE DATUM SHALL CONFORM TO THE MOST CURRENT EDITION OF THE FOLLOWING PUBLICATION: OREGON COORDINATE REFERENCE SYSTEM (O CRS) FOR THE BEND-KLAMATH FALLS ZONE, TRANSVERSE MERCATOR MAP PROJECTION. THE O CRS ZONES ARE REFERENCED TO THE NATIONAL SPATIAL REFERENCE SYSTEM (NSRS) WHICH IS CURRENTLY DEFINED GEOMETRICALLY AS NAD83 (GRS-80 ELLIPSOID) AND IT WILL FOLLOW THE NATIONAL GEODETIC SURVEY (NGS) PATH (NEW DATUM DEFINITIONS') IN THE FUTURE. THE VERTICAL DATUM WILL BE THE CURRENT NAVD88, BUT WILL ALSO FOLLOW THE NGS LEAD ADOPTING THE FUTURE NAVD BASED ON A PURE GRAVIMETRIC GEOID (VIA THE GRAV-D PROJECT).

UTILITIES – GENERAL

U-1. ALL TRENCH BACKFILL WITHIN PUBLIC RIGHTS-OF-WAY, AND AREAS TO BE PAVED WITH AC OR GRAVEL, SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY PER AASHTO T-99. TRENCH BACKFILL IN SOIL AREAS OUTSIDE OF PAVING SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAX DRY DENSITY PER AASHTO T-99. REFER TO STANDARD DWG. NO. 2-105.

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(GENERAL NOTES, CONTINUED)

U-2. CONTRACTOR SHALL MARK CURBS OR BACK OF SIDEWALKS (STAMPED) FOR ALL CONDUITS AND SERVICE LINES FOR EASE IN SEARCHING FUTURE USE:

- S - SANITARY
- W - WATER
- H - GEOTHERMAL
- D - STORM DRAIN

U-3. GAS, POWER, TELEPHONE & CABLE TV UTILITY TRENCHING SHALL BE COMPLETED IN ACCORDANCE WITH PLANS AND SPECIFICATIONS FROM APPLICABLE UTILITY COMPANIES. ALL CABLE AND GAS UTILITIES SHALL BE INSTALLED BY THE APPLICABLE UTILITY COMPANY IN CONFORMANCE WITH THE JOINT TRENCH DETAIL ON THE ATTACHED SHEET. CONTRACTOR SHALL COORDINATE TRENCH EXCAVATIONS, CONDUIT INSTALLATIONS, BEDDING AND BACKFILLING WITH APPROPRIATE UTILITY REPRESENTATIVES.

U-4. ALL UTILITIES SHOWN ARE ACCURATE TO THE EXTENT OF AVAILABLE RECORDS AND KNOWLEDGE. POT HOLING TO VERIFY UTILITY LOCATIONS AND ELEVATIONS WAS NOT AUTHORIZED BY THE OWNER. THE CONTRACTOR HAS TOTAL RESPONSIBILITY IN VERIFYING THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY INSPECTOR AND DESIGN ENGINEER IMMEDIATELY.

U-5. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO DIGGING BY CONTACTING THE KLAMATH UTILITIES COORDINATING COUNCIL 1-800-332-2344, 48 HOURS BEFORE DIGGING.

U-6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ALL IMPROVEMENTS AND UTILITIES DAMAGED DURING CONSTRUCTION. ALL REPAIR WORK SHALL MEET OR EXCEED EXISTING CONDITIONS AND BE AT THE CONTRACTOR'S EXPENSE.

U-7. INITIAL CONSTRUCTION STAKING WILL BE PROVIDED BY THE OWNER. IN THE EVENT CONSTRUCTION STAKES ARE LOST OR DISTURBED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF SAID STAKES. ALL STAKING SHALL BE DONE BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF OREGON.

U-8. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UTILITIES WITH THE UTILITY OWNERS TO PREVENT DELAYS DURING CONSTRUCTION.

U-9. ALL UTILITIES SHALL BE MARKED WITH AN APPROVED LOCATOR TAPE PLACED 12" BELOW GROUND SURFACE. ALL TAPE SHALL BE COLOR CODED FOR THE UTILITY BEING MARKED.

U-10. UTILITIES WITHIN A PUBLIC RIGHT-OF-WAY SHALL HAVE THE FOLLOWING MINIMUM HORIZONTAL CLEARANCES (LINES BEING PARALLEL)

MAIN LINES:

- ELECTRIC & TELEPHONE/CATV = 12 INCHES
- ELECTRIC & GAS = 3 FEET
- GAS & WATER = 3 FEET
- WATER & SEWER = SEE NOTE U-11
- WATER & POWER = 3 FEET
- WATER & STORM = 3 FEET
- ALL OTHERS = 12 INCHES

SERVICE LATERALS:

- ELECTRIC & TELEPHONE/CATV = 12 INCHES
- ELECTRIC & GAS = 3 FEET
- GAS & WATER = 3 FEET
- WATER & SEWER = SEE NOTE U-11
- WATER & POWER = 3 FEET
- WATER & STORM = 3 FEET
- ALL OTHERS = 12 INCHES

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(GENERAL NOTES, CONTINUED)

U-11. CONTRACTOR SHALL MAINTAIN THE FOLLOWING SEPARATION BETWEEN WATER & SEWER LINES PER OAR 333-061-0050(10):

HORIZONTAL - 10' MINIMUM; VERTICAL - 18" MINIMUM WITH WATER ABOVE SEWER.

VERTICAL SEPARATION FOR: WATER AND POWER = 12" MINIMUM

WATER AND GAS = 12" MINIMUM

ALL UTILITIES OTHER THAN WATER AND SEWER SHALL BE 12" MINIMUM.

UTILITIES - WATER

W-1. THE WATER LINE SHALL HAVE A SINGLE STRAND TRACER WIRE (14 ga - BLUE) PLACED ON TOP OF THE PIPE ZONE (12" FROM TOP OF PIPE) AND BEING CONTINUOUS BETWEEN VALVE BOXES. THE WIRE SHALL EXTEND UP THE OUTSIDE OF THE VALVE BOX EXTENSION THEN UP THE INSIDE OF THE VALVE BOX. 24" OF WIRE SHALL BE LEFT COILED JUST BENEATH THE LID. ALL CONNECTIONS SHALL BE WATERTIGHT.

W-2. ALL SPLICES IN THE TRACER WIRE SHALL BE MADE USING DBR SPLICE KIT, PART NO. 054007-09053 BE ELECTRICAL PRODUCTS DIVISION OF 3M CO. OR APPROVED EQUAL. A CONTINUITY TEST SHALL BE PERFORMED BY THE CITY OF KLAMATH FALLS TO INSURE A CONTINUOUS RUN. TRACER WIRE ON SERVICE LINES SHALL BE SPLICED INTO MAIN TRACER WIRE.

W-3. ALL VALVES SHALL BE IRON BODIED, RESILIENT SEAT WEDGE TYPE EPOXY LINED AND COATED WITH NON-RISING STEMS AND SHALL OPEN WHEN ROTATED COUNTER-CLOCKWISE. VALVE BOX AND COVER SHALL BE BROOKS PRODUCTS 4TT SERIES WITH COVER MARKED "WATER." VALVES SHALL BE MANUFACTURED BY THE KENNEDY VALVE COMPANY. VALVE BOX ASSEMBLIES SHALL CONFORM TO THE "WATER BLOW-OFF ASSEMBLY" STANDARD DWG. NO. 7-115.

W-4. WATER PIPE SHALL BE C900 CLASS 235 POLYVINYL CHLORIDE PIPE AND SHALL BE BLUE IN COLOR THROUGHOUT THE PVC CHEMICAL MIX UNLESS NOTED OTHERWISE. ALL WATER PIPE SHALL BE NEW AND A MANUFACTURER'S WRITTEN CERTIFICATION AND WARRANTY SHALL ACCOMPANY ANY PIPE THAT IS PAST THE ONE YEAR MANUFACTURED DATE. SIZE AS INDICATED ON THE DRAWINGS. ALL PIPE, FITTINGS, VALVES AND APPURTENANCES SHALL BE NSF AND OREGON HEALTH DEPARTMENT APPROVED.

W-5. ALL WATER LINE FITTINGS SHALL BE CAST OR DUCTILE IRON AND SHALL BE INSTALLED WITH THRUST BLOCKS PER THE THRUST BLOCK STANDARD DWG. NO. 2-120 UNLESS NOTED OTHERWISE.

W-6. GENERAL CONTRACTOR SHALL PERFORM DISINFECTION OF FACILITIES BY CHLORINATION ACCORDING TO OREGON ADMINISTRATIVE RULES 333-061-0050 (10) AND AWWA STANDARDS C651 THROUGH C654. CITY PERSONNEL SHALL PERFORM CHLORINE RESIDUAL TESTS IMMEDIATELY AFTER DISINFECTION AND IMMEDIATELY AFTER FLUSHING. CITY PERSONNEL SHALL PERFORM MICROBIOLOGICAL TEST PER CURRENT STANDARDS. SHOULD ANY TEST FAIL, THE CONTRACTOR IS RESPONSIBLE TO PAY THE CITY'S CURRENT HOURLY RATE AT NO LESS THAN 1/2 HOUR INCREMENTS FOR ADDITIONAL TESTS. CALL 883-5368 FOR CURRENT RATE. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DE-CHLORINATION AS REQUIRED BY FEDERAL, STATE AND LOCAL REGULATIONS.

W-7. GENERAL CONTRACTOR SHALL PRESSURE TEST THE WATER LINE AND ALL SERVICES BY HYDROSTATIC METHOD PER CURRENT AWWA STANDARD SECTION C600. TEST PRESSURE SHALL BE A MINIMUM 150 PSI FOR A TWO HOUR DURATION. CITY PERSONNEL SHALL APPROVE ALL EQUIPMENT USED AND WITNESS THE FILLING OF THE LINE AND THE PRESSURE TESTING PROCESS. SHOULD THE TEST FAIL, THE CONTRACTOR IS RESPONSIBLE TO PAY THE CITY'S CURRENT HOURLY RATE AT NO LESS THAN 1/2 HOUR INCREMENTS FOR ADDITIONAL TESTS. CALL 883-5368 FOR CURRENT RATE.

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*(GENERAL NOTES, CONTINUED)*

W-8. THE CONTRACTOR SHALL MECHANICALLY CLEAN THE CONSTRUCTED WATER MAINS BEFORE WATER IS ALLOWED TO ENTER THE NEW MAIN. CLEANING WILL BE ACCOMPLISHED BY PROPELLING OR PULLING AN APPROPRIATELY SIZED BULLET SHAPED FOAM PLUG (PIG) THROUGH THE ENTIRE LENGTH OF THE WATER MAIN. REFER TO THE WATER DISTRIBUTION OPERATOR TRAINING HANDBOOK FOR INSTRUCTIONS. A COPY OF THIS SECTION CAN BE OBTAINED FROM CITY ENGINEERING.

W-9. ALL FIRE HYDRANTS SHALL BE PER CITY STANDARD DWG. NO. 7-110.

W-10. ALL CONNECTIONS TO EXISTING CITY WATER LINES SHALL BE MADE BY THE CONTRACTOR UNDER THE CITY'S SUPERVISION. CONTRACTOR SHALL COORDINATE WITH THE CITY ON TIMING OF THE WORK. THE DESIGN ENGINEER WILL PROVIDE THE CITY WITH A DETAIL DRAWING OF THE CONNECTION FOR APPROVAL THREE WORKING DAYS PRIOR TO INSTALLATION.

W-11. REFER TO THE CITY STANDARD DWG. NO. 2-120 FOR THRUST BLOCK DETAILS. THE DESIGN ENGINEER WILL PROVIDE THE CITY WITH A RESTRAINT JOINT TABLE/SCHEDULE IN-LIEU OF THRUST BLOCKS.

W-12. ONLY NEW, UNUSED PIPE, FITTINGS, METERS, AND ALL OTHER APPURTENANCES WILL BE ACCEPTED BY THE CITY FOR DEDICATED INFRASTRUCTURE WITHIN THE CITY'S WATER SYSTEM. REFURBISHED, RECONDITIONED, ETC. MATERIALS OR EQUIPMENT OF ANY KIND ARE NOT ACCEPTABLE FOR USE IN THE CITY'S WATER SYSTEM.

## UTILITIES – STREETS

T-1. THE DESIGN ENGINEER WILL INCLUDE IN THEIR DESIGN/CONSTRUCTION DRAWINGS A PLAN SHOWING TRAFFIC SIGNS, STREET SIGNS, NO PARKING SIGNS, STRIPING, CURB MARKINGS AND ANY OTHER STREET RELATED ITEMS THAT ARE DEEMED NECESSARY BY THE CITY STREET SUPERINTENDENT AND TRAFFIC ENGINEER.

T-2. ALL BASE ROCK THAT IS AFFILIATED WITH STREET CONSTRUCTION, UTILITY TRENCHES AND SIDEWALKS WILL MEET STATE SPECIFICATIONS.

T-3. PLACEMENT OF ASPHALT AND PORTLAND CEMENT CONCRETE WILL ADHERE TO THE SPECIFICATIONS OF THE COMBINED "ODOT/APWA STANDARDS."

T-4. THE GENERAL CONTRACTOR SHALL CONDUCT A PRE-PAVING MEETING WITH THE CITY ON SITE NO LESS THAN THREE WORKING DAYS BEFORE PAVING OPERATIONS START.

T-5. PLATES MUST BE PINNED & WEDGED ON ALL SIDES AND MUST BE MAINTAINED DAILY FOR A MAXIMUM OF 72 HOURS (CITY APPROVAL REQUIRED FOR DURATIONS EXCEEDING 72 HOURS).

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