

GENERAL NOTES

WATERWORK NOTES

SCOPE OF WORK

THE WORK CONTEMPLATED UNDER THIS CONTRACT COMPRISES THE RELOCATING OF FIRE HYDRANTS, ADJUSTING OF VALVE BOXES TO GRADE AND OTHER INCIDENTAL WORK.

THE CONTRACTOR SHALL DO ALL THE WORK AND FURNISH ALL THE LABOR AND MATERIAL NECESSARY FOR THE FINAL COMPLETION OF THIS CONTRACT IN THE MANNER AND UNDER THE CONDITION HEREIN SPECIFIED AND PROVIDED AND IN ACCORDANCE WITH THE CONTRACT DRAWINGS.

ALL WATER LINE WORK SHALL BE DONE BY A CONTRACTOR THAT IS LICENSED BY THE LAKE COUNTY UTILITIES DEPARTMENT.

DEFINITIONS

WHENEVER IN THESE SPECIFICATIONS OR IN ANY DOCUMENTS OR INSTRUCTIONS IN CONSTRUCTION WHERE THESE SPECIFICATIONS GOVERN, THE FOLLOWING TERMS ARE USED, OR PRONOUNS IN PLACE OF THEM, THE INTENT AND MEANING SHALL BE INTERPRETED AS FOLLOWS:

THE STATE

THE STATE IS THE STATE OF OHIO ACTING THROUGH ITS AUTHORIZED REPRESENTATIVE.

ENGINEER

THE ENGINEER IS THE DISTRICT DEPUTY OR DISTRICT ENGINEER, THE DISTRICT MAINTENANCE ENGINEER, OR THE PROJECT ENGINEER ASSIGNED TO ADMINISTER THE CONTRACT.

THE COUNTY

THE COUNTY IS THE LAKE COUNTY UTILITIES DEPARTMENT.

STATUS OF COUNTY INSPECTION

INSPECTORS AS DESIGNATED BY THE COUNTY SHALL BE AUTHORIZED TO INSPECT ALL WORK DONE AND MATERIALS FURNISHED. SUCH INSPECTION MAY EXTEND TO ALL OR ANY PART OF THE WATERWORK, AND TO THE PREPARATION OR MANUFACTURE OF THE WATERWORK, AND TO THE PREPARATION OR MANUFACTURE OF THE MATERIALS TO BE USED IN THE WATERWORKS. THE INSPECTOR AS DESIGNATED BY THE COUNTY SHALL MAKE WORK INSTRUCTIONS THROUGH THE PROJECT ENGINEER.

SPECIFICATIONS

THE STANDARD CONSTRUCTION AND MATERIALS SPECIFICATIONS OF THE LAKE COUNTY REGIONAL SEWER DISTRICT NO. 1, DATED FEBRUARY 15, 1983 SHALL GOVERN ALL WATERWORK ON THIS PROJECT EXCEPT AS SPECIFICALLY MODIFIED HEREIN.

NOTICE BY CONTRACTOR

THE LAKE COUNTY UTILITIES DEPARTMENT SHALL BE NOTIFIED BY THE CONTRACTOR TWO (2) WORKING DAYS BEFORE WORK IS STARTED. CALL MR. CHRIS HODGES AT 357-2645 BETWEEN 8 A.M. AND 4:30 P.M.

ACCESS TO WORK AND PLACE OF MANUFACTURE

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE COUNTY AT LEAST SEVEN (7) DAYS PREVIOUS TO THE COMMENCEMENT OF THE MANUFACTURE OF ANY MATERIALS, OF THE TIME AND PLACE WHERE THE MANUFACTURE IS TO COMMENCE, IN ORDER THAT A REPRESENTATIVE OF THE ENGINEER AND THE COUNTY MAY BE PRESENT TO INSPECT THE MANUFACTURE. THE CONTRACTOR SHALL PROVIDE, WITHOUT CHARGE OR EXPENSE TO THE STATE AND COUNTY ALL NECESSARY ASSISTANCE TO THE ENGINEER AND COUNTY WHEN REQUIRED FOR INSPECTION OR VERIFICATION OF WORK DONE.

DIMENSIONS, DETAILED DRAWINGS AND ELEVATIONS

FIGURED DIMENSIONS ON DRAWINGS SHALL TAKE PRECEDENCE OVER MEASUREMENTS BY SCALE, AND DETAILED DRAWINGS ARE TO TAKE PRECEDENCE OVER GENERAL DRAWINGS AND SHALL BE CONSIDERED AS EXPLANATORY OF THEM AND NOT AS INDICATING EXTRA WORK. IF, HOWEVER, ANY OF THE DETAILED DRAWINGS SHOW MORE ELABORATE OR EXPENSIVE WORK THAN IS SPECIFIED AND INDICATED BY THE CONTRACT DRAWINGS, NOTICE THEREOF MUST BE GIVEN TO THE ENGINEER BY THE CONTRACTOR WITHIN TEN (10) DAYS AFTER THE RECEIPT OF SUCH DETAILED DRAWINGS IN ORDER THAT THE DRAWINGS MAY BE AMENDED OR THE ADDITIONAL EXPENSE ON ACCOUNT OF SUCH WORK MAY BE ADJUSTED AND AUTHORIZED. IF THE ENGINEER DOES NOT RECEIVE SUCH NOTICE FROM THE CONTRACTOR WITHIN TEN (10) DAYS AFTER DETAILED DRAWINGS HAVE BEEN RECEIVED BY HIM, IT IS HEREBY AGREED THAT THE CONTRACTOR ACCEPTS THE DRAWINGS AND WILL EXECUTE THEM WITHOUT CLAIMS FOR EXTRA COMPENSATION.

ADDITIONAL WORK

(A) ATTENTION IS CALLED TO THE FACT THAT THE WORK OF THIS CONTRACT INCLUDES CERTAIN PERFORMANCES AS INCIDENTAL TO THE ITEMIZED REQUIREMENTS HEREOF, THOUGH NOT EXCLUSIVE AS FOLLOWS: TO PERFORM ALL EXCAVATION, BACKFILLING, SHEETING, SHORING, TEMPORARY PAVING AND TESTING OF THE WATERWORKS. GRANULAR MATERIAL (O.D.O.T. ITEM 310) BACKFILL SHALL BE PLACED UNDER EXISTING AND PROPOSED PAVEMENT. FOR THE PERFORMANCE HEREIN DESCRIBED AND FOR OTHER INCIDENTAL PERFORMANCES OF LIKE NATURE, THE STATE WILL MAKE NO SPECIFIC OR SEPARATE PAYMENT OR ALLOWANCE, BUT THE COST THEREOF SHALL BE INCLUDED IN THE PRICES STIPULATED TO BE PAID FOR THE VARIOUS ITEMS OF THE WORK TO BE DONE UNDER THIS CONTRACT.

(B) PRELIMINARY FLUSHING: BEFORE BEING PLACED IN SERVICE ALL DIRT AND FOREIGN MATTER SHALL BE REMOVED FROM THE NEW WATER MAIN OR EXTENSIONS TO EXISTING MAINS BY A THOROUGH FLUSHING THROUGH THE HYDRANTS OR BY OTHER APPROVED MEANS. EACH VALVED SECTION OF NEWLY LAID PIPE SHALL BE FLUSHED INDEPENDENTLY. THIS SHALL BE DONE AFTER THE PRESSURE TEST AND SHALL BE DONE AFTER THE TRENCH HAS BEEN BACKFILLED.

(C) CHLORINATION: THE NEWLY LAID WATER PIPE SHALL BE CHLORINATED. THE PROCESS OF CHLORINATING, THE METHOD OF PROCEDURE, THE CHLORINATING AGENT AND THE RATE OF APPLICATION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND APPROVED BY THE ENGINEER AND THE COUNTY.

(D) FINAL FLUSHING AND TEST: FOLLOWING CHLORINATION, ALL TREATED WATER SHALL BE THOROUGHLY FLUSHED FROM THE NEWLY LAID PIPE AT ITS EXTREMITIES UNTIL THE REPLACEMENT WATER THROUGHOUT ITS LENGTH SHALL, UPON TEST, BOTH CHEMICALLY AND BACTERIOLOGICALLY, BE PROVEN EQUAL TO THE WATER QUALITY SERVED THE PUBLIC FROM THE EXISTING WATER SUPPLY SYSTEM.

(E) FOR THE PERFORMANCE DESCRIBED IN PARAGRAPHS B, C, AND D, THE STATE WILL MAKE NO SPECIFIC OR SEPARATE PAYMENT OR ALLOWANCES, BUT THE COST THEREOF SHALL BE INCLUDED IN THE PRICES STIPULATED TO BE PAID FOR EACH LINEAR FOOT OF PIPE FURNISHED AND INSTALLED.

(F) TEST AND FLUSHING WATER FOR ALL WATERLINES SHALL BE PAID FOR BY THE CONTRACTOR AT A RATE OF \$2.60/100 CUBIC FEET. ALL METERS, PUMPS, ETC. FOR SUPPLYING SAID WATER SHALL BE PROVIDED BY THE CONTRACTOR. AT THE TIME OF NOTICE TO THE COUNTY, A DEPOSIT SHALL BE MADE AT THE ABOVE RATE FOR THE ESTIMATED AMOUNT OF WATER TO BE USED. THIS DEPOSIT SHALL AT ALL TIMES BE KEPT CURRENT. THE ESTIMATED AMOUNT FOR THIS DEPOSIT SHALL BE APPROXIMATELY \$ 50.00.

MAINTENANCE OF SERVICE AND CONNECTING NEW PIPE

ALL EXISTING FIRE HYDRANT LEADS AND SERVICE LEADS SHALL BE HAND TUNNELED USING SPECIAL CARE TO AVOID ANY DAMAGE WHICH MIGHT REQUIRE SHUTTING DOWN THE EXISTING MAIN UNTIL THE MAIN IS READY TO BE PLACED BACK IN SERVICE. WHEN THE NEW CONNECTIONS HAVE BEEN TESTED AND CHLORINATED AND ARE READY TO BE CONNECTED TO THE OLD MAIN, THE CONTRACTOR SHALL MAKE SUCH CONNECTIONS AT A TIME DESIGNATED BY THE COUNTY. PRIOR TO SHUTTING DOWN EXISTING MAINS, THE CONTRACTOR SHALL TAKE SUITABLE PRECAUTIONS TO ASSURE A MINIMUM INTERRUPTION TO SERVICE, INCLUDING THE FOLLOWING:

1. PERFORM ALL NECESSARY EXCAVATION, INCLUDING BELL HOLES, EXPOSING THE EXISTING MAIN SUFFICIENTLY FOR THE OPERATION OF THE PIPE SAW TO CUT THE EXISTING PIPE.

2. SWAB THE INSIDE OF ALL PIPES, BENDS AND SLEEVES TO BE USED IN MAKING THE CONNECTIONS THOROUGHLY WITH A CHLORINE SOLUTION OF AT LEAST 100 P.P.M.

3. MAKE UP AS MUCH OF THE CONNECTION AS POSSIBLE OUTSIDE THE EXCAVATION TO MINIMIZE THE NUMBER OF JOINTS TO BE MADE DURING THE SHUTDOWN. BY CAREFUL MEASUREMENT ALL PIPE CUTS CAN BE MADE BY THE CONTRACTOR PRIOR TO SHUTTING DOWN.

4. HAVE SUFFICIENT MANPOWER AND EQUIPMENT ON THE SITE TO PERFORM THE OPERATION IN A MINIMUM OF TIME.

5. PERSONALLY CONTACT EACH WATER CUSTOMER 48 HRS. IN ADVANCE AS TO LENGTH OF TIME AND THE OF DAY WATER SERVICE WILL BE TURNED OF.

FLOODS AND FREEZING WEATHER

PROPER FACILITIES SHALL BE PROVIDED FOR PROTECTING THE WORK FROM DAMAGE BY FLOOD, RAIN OR FROST, AND WORK DONE IN FREEZING WEATHER SHALL BE DONE IN SUCH MANNER AS THE ENGINEER AND THE COUNTY MAY APPROVE. VALVES SHALL BE PROTECTED FROM FREEZING UNTIL BACKFILLED IN THE COMPLETED WORK.

PAINTING

(A) IT IS THE INTENTION OF THESE SPECIFICATIONS TO PROVIDE THAT ALL METAL WORK SUBJECT TO CORROSION IS TO BE SATISFACTORILY PROTECTED BY A LAKE COUNTY UTILITIES APPROVED DURABLE COATING OR OTHER APPROVED MATERIAL AND THAT ALL METAL SURFACES NOT BURIED IN EARTH, OR CONCRETE, SHALL BE LEFT COATED AND WELL PAINTED AT THE COMPLETION OF THE CONTRACT. UNLESS OTHERWISE SPECIFIED, THE PROTECTION SHALL BE AT LEAST THAT GIVEN BY THREE (3) COATS OF APPROVED PAINT. THE FIRST COAT IS TO BE APPLIED AT THE SHOP BEFORE THE METAL HAS RUSTED AND AFTER ALL GREASE, DIRT AND SCALE HAS BEEN REMOVED. BOLTS AND NUTS SHALL NOT BE SHOP COATED, BUT SHALL RECEIVE THREE (3) COATS OF APPROVED PAINT AFTER INSTALLATION, AND BE PROTECTED BY ZINC "PROTECTO-CAPS".

(B) ALL METAL WORK WHICH HAS NOT BEEN COATED BEFORE ARRIVAL ON THE JOB SHALL BE GIVEN A TEMPORARY PROTECTIVE COATING OF SUCH A NATURE AS TO PERMIT THE READY ADHERENCE TO FUTURE COATINGS. THE TEMPORARY COATING SHALL BE A GOOD GRADE ASPHALTIC PAINT OR OTHER APPROVED MATERIAL. THIS TEMPORARY PROTECTION SHALL APPLY PARTICULARLY TO THE VALVE BOXES AND COVERS, MANHOLE RINGS AND COVERS, LADDERS AND LADDER RUNGS AND ELSEWHERE WHEN IN THE OPINION OF THE ENGINEER AND COUNTY, SUCH PROTECTION IS NECESSARY.

(C) ALL SURFACES OF METAL WHICH WILL BE IN CONTACT AFTER ASSEMBLING SHALL BE PAINTED, AT LEAST ONE COAT, BEFORE ASSEMBLING. THE FINAL COAT OF PAINT ON ALL EXPOSED WORK SHALL BE GIVEN SHORTLY BEFORE THE COMPLETION OF THE CONTRACT.

(D) WHERE PAINTING CLAUSES APPEAR HEREINAFTER, THEY SHALL TAKE PRECEDENCE OVER THIS SECTION, EXCEPT THAT TEMPORARY PROTECTION HEREIN DESCRIBED MAY BE REQUIRED.

(E) ALL OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE PARTICULAR ITEM REQUIRING THE PAINTING.

TESTS, INSPECTION, AND REPORTS

NOTWITHSTANDING THE REQUIREMENTS OF ANY OTHER PROVISION OF THESE SPECIFICATIONS, THE CONTRACTOR SHALL FURNISH TO THE STATE AND THE COUNTY COPIES OF ALL SHOP, FABRICATION, MANUFACTURE AND OTHER RELATED INSPECTION REPORTS OF MATERIALS FURNISHED. THIS INSPECTION SHALL BE DONE BY A RECOGNIZED INSPECTION LABORATORY APPROVED BY THE STATE AND COUNTY. ALL SHOP DRAWINGS SHALL BE APPROVED BY THE LAKE COUNTY UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.