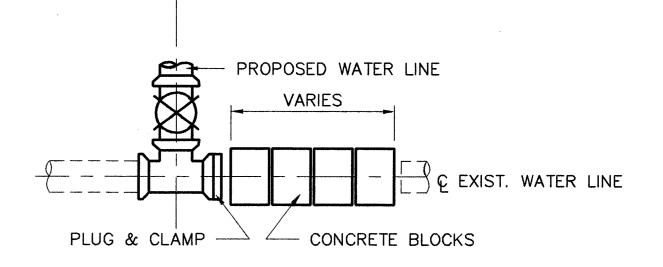
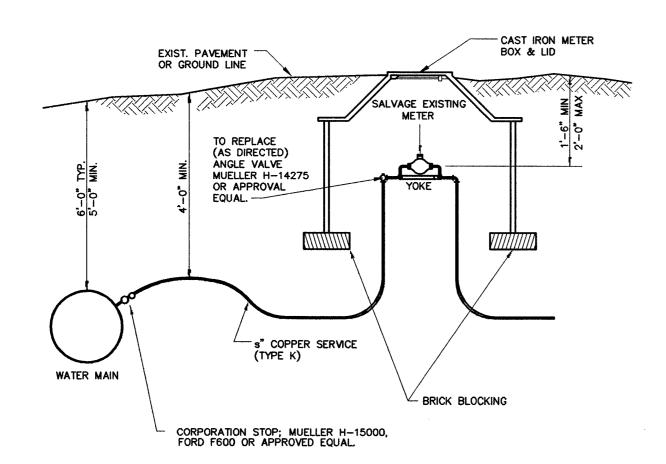


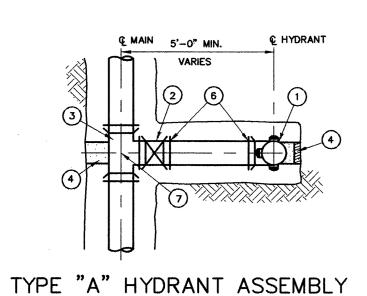
CORPORATION STOPS TO BE PLUGGED AFTER STERILIZATION & TESTING STERILIZATION & TESTING CONNECTIONS AT VALVES



SOLID BLOCKING DETAIL



SERVICE TIE IN FOR OUTSIDE METER DETAIL



2 1 @ HYDRANT

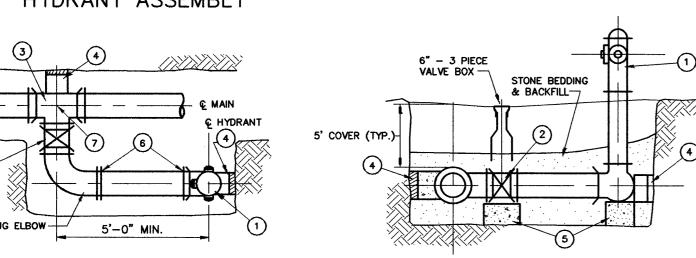
- 1) HYDRANT, PER SPECIFICATIONS (2) 6" GATE VALVE (3) ANCHORING TEE
  - 4 CONCRETE BLOCKING WITH OAK WEDGES AGAINST UNDISTURBED EARTH 5 CONCRETE SUPPORT BLOCKING

7 PLAN STATION & OFFSET

6 MEGALUG JOINT RESTRAINT OR EQUAL

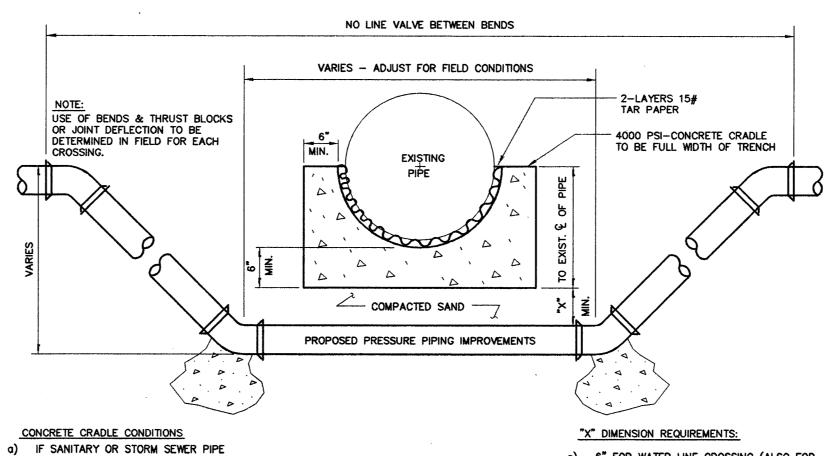
TYPE "C" HYDRANT ASSEMBLY

NOTE: CLEVELAND STANDARD HYDRANTS WITH FROST CASING SHALL BE USED. HYDRANTS SHALL HAVE CLEVELAND STANDARD THREAD NOZZELS OF TWO - 2 1/2" HOSE AND ONE 4" PUMPER SIZE.



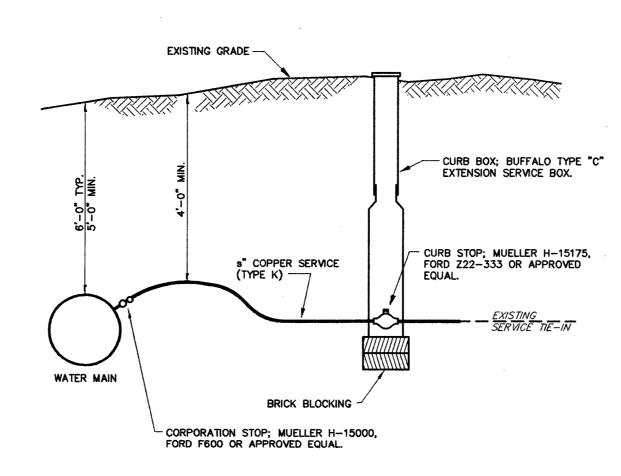
TYPE "B" HYDRANT ASSEMBLY TYPICAL HYDRANT ASSEMBLY ELEVATION STANDARD LAKE COUNTY WATER DEPARTMENT

HYDRANT DETAILS

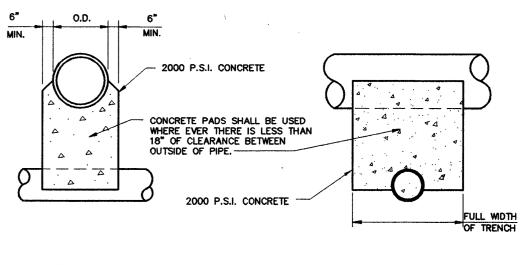


- a) 6" FOR WATER LINE CROSSING (ALSO FOR GAS & O.B.T. LINES w/NO CRADLE NEEDED) JOINT IS WITHIN PROPOSED IMPROVEMENT
- b) 18" FOR SANITARY OR STORM SEWER PIPE b) IF CROSSING A WATER LINE AT ANY POINT c) IF CROSSING SPACE IS MORE THAN MIN. SPACE OF CRADLE BELOW PIPE BOTTOM PLUS AFOREMENTIONED "X" DIMENSION THEN EXTEND IF CROSSING SPACE IS LESS THAN MIN. SPACE OF CRADLE BELOW PIPE BOTTOM PLUS "X" DIMENSION THEN OMIT SAND "X" DIMENSION TO MAKE UP DIFFERENCE.

## PIPE LOWERING DETAIL

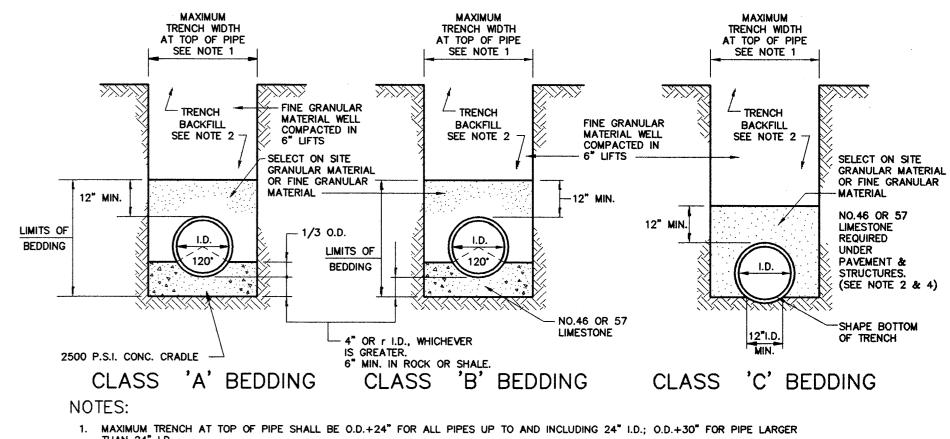


SERVICE TIE-IN FOR INSIDE METER



UNLESS OTHERWISE DIRECTED BY THE ENGINEER, WHERE TWO PIPES (SEWER & WATER) CROSS EACH OTHER, A CONCRETE PAD AND CRADLE SEPERATOR SHALL BE PLACED BETWEEN THEM AS INDICATED ABOVE. WHERE PERMISSION IS GRANTED TO OMIT THE CONCRETE PADS, GRANULAR BACKFILL SHALL BE TAMPED IN 6" LAYERS AROUND BOTH PIPES. SUCH TAMPED BACKFILL SHALL BE CONTINUOUS FROM THE CRADLE OF THE LOWER PIPE TO THE TOP OF THE UPPER PIPE AND AT THE BOTTOM SHALL EXTEND IN BOTH DIRECTIONS, FOR THE FULL WIDTH OF THE TRENCH.

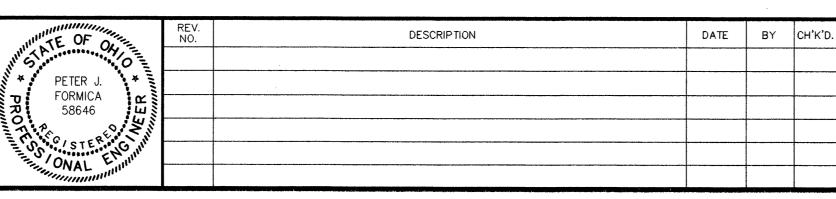
PIPE CROSSING DETAIL



- 2. PIPE BACKFILL UNDER PAVEMENT AND STRUCTURES SHALL BE NO.46 OR NO. 57 LIMESTONE COMPACTED TO TOP OF TRENCH. THE BACKFILL MATERIAL SHALL EXTEND A MINIMUM OF 3 FEET BEYOND EACH EDGE OF PAVEMENT OR STRUCTURE. IN AREAS OUTSIDE OF PAVEMENT, BACKFILL SHALL BE AS PER SPECIAL JOB REQUIREMENTS NOTES 2.07, 2.08 & 2.09.
- 3. ALL BEDDING SHALL BE CLASS "B" UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE ENGINEER,
- 4. SLAG BEDDING SHALL NOT BE USED.
- 5. WATER LINE BEDDING SHALL BE CLASS "C".
- 6. CLAY DAMS SHALL BE REQUIRED WHEN AND WHERE NECESSARY PER THE SOLE DISCRETION OF THE LAKE COUNTY SANITARY ENGINEER.

LAKE COUNTY DEPARTMENT OF UTILITIES TRENCH & BEDDING DETAILS





## LLOYD ROAD **IMPROVEMENTS**

CITY OF WICKLIFFE, LAKE COUNTY, OHIO

DATE: 2-15-00		
DRAWN BY:	J.R.R.	
CHECKED BY:	P.J.F.	
APPROVED BY:	P.J.F.	
F.B. No	_PG	

## WATERMAIN DETAILS

	SCALE NONE		
	CONTRACT No.		
-	98367		
	SHEET NO.	OF	
	16	20	