

SANITARY SEWER DATA SHEET

TO BE SUBMITTED IN TRIPLICATE TO THE OHIO ENVIRONMENTAL PROTECTION AGENCY
DISTRICT OFFICE WITH DETAIL PLANS

Name of Municipality or County Sewer District City of Napoleon
 Location of Project by City or County and Twp. CLEVITE, Napoleon, Ohio
 Name of Project Installation of sewer line to carry industrial wastewater
 Name of Engineer or Firm Preparing Plans CLEVITE-Elastomers
 Address Route 424 E. Napoleon, Ohio 43545
 Name and Address of Municipal or County Official to whom plan approval should
 be sent Marc S. Gerken P.E. City Engineer
City of Napoleon 255 Riverview Ave. Napoleon, Ohio 43545-0151

1. Brief Description of project. Include information as to (a) the location, size and development of the area to be served, (b) total length of sewer to be installed, (c) possibility of future extensions, (d) exact location of connections to existing sewers, (e) treatment plant receiving wastes and (f) other data pertinent to the project. Installation of a 10 inch sewer line, 380 ft. length. Line will carry treated industrial wastewater from CLEVITE's pretreatment building to the City's 12 inch sewer line. Connection will be made to 12 inch line at new manhole on CLEVITE's property along the North side of Route 424.

PIPE MATERIAL	MATERIAL SPECIFICATION*	JOINT SPECIFICATION*	BEDDING** CLASSIFICATION	PIPE SIZE
PVC SDR35	ASTM 3034	ASTM D-3212	4310 Crushed Stone	10 inch
LENGTH OF PIPE	MINIMUM SLOPE	MAX. MANHOLE SPACING	TYPE OF MANHOLE	M.H. JOINT SPECIF. *
380 ft.	1.3 %	300 ft.	ASTM C-478	ASTM C443
			precast	
			concrete	

*List ASTM, AWWA, or ANSI specification number.

** Note: 100% to pass 3/4 inch sieve. ASTM C-12(A,B,C); D-2321(1,2,3) or OTHER

4/10/80

3. a. Specify the type of leakage test (infiltration and/or exfiltration) and the limit to be used, preferably in terms of gallons per inch of pipe diameter per mile per day. 200 gal/hour/inch dia./mile of pipe _____

Is air testing specified () , permitted (), not specified (). Attach specifications if specified.

Name of Engineer supervising leakage tests. City of Napoleon

- b. Deflection limit specified 5.0 % (Applies to ABS and PVC Pipe)

Name of Engineer supervising deflection tests. City of Napoleon

- c. Specifications must include provisions of inspection of all construction by an engineer or qualified inspector.

Name of Engineer or Inspector City of Napoleon

4. Capacity of existing system and/or plant to which connected.

Present Treatment Facility Loading 0.140 MGD (based on average daily flow previous year).

Present Design Capacity of Treatment Facility 0.200 MGD (average daily flow).

If proposed sewer is to be connected to an existing sanitary sewer, give the capacity of the existing sewer available for additional loading at point of connection 0.83 MGD. (Base calculations on basis of peak flows)

5. Estimated hydraulic loading of proposed sewer at point of discharge:

existing; average daily flow 0.140 MGD, peak flow 140 GPM;
(based on existing buildings to be served)

design; average daily flow 0.140 MGD, peak flow 140 GPM;
(based on immediate area served)

ultimate; average daily flow 0.200 MGD, peak flow 140 GPM;
(based on immediate area and extension)

6. If the flow figures for items four or five indicate a hydraulic loading over the design capacity of the sewer or treatment plant, explain what steps are being taken to eliminate or reduce the hydraulic loading to an acceptable value.

7. Are the proposed sewers deep enough to serve all adjacent basements?

Yes N/A No _____

If No, Explain: _____

8. a. Are the sewers at least 10 feet horizontally from water lines and/or at least 18 inches below the water line? Yes No
- If No, why? _____
- b. Are water supply sources, public or private, located within 200 feet of the sewer? Yes _____ No
- If Yes, specify plan sheet page number(s) on which sources are shown _____
- _____
- If yes, will sewers be encased or watertight? Yes _____ No _____
- c. Is there any connection between the sewer and a public or private potable water supply or appurtenances? Yes _____ No
- d. Are sewers in streams constructed to remain watertight and in alignment? Yes _____ No _____ N/A
- e. Are watertight covers used where manholes are subject to flooding by street runoff or high water? Yes _____ No _____ N/A
9. a. Are manholes provided at all changes in size, grade, alignment, and sewer intersections? Yes No _____ N/A _____
- b. Are drop manholes provided where the entrance sewer invert is 30 inches or more above manhole invert? Yes _____ No _____ N/A
10. a. Where small sewers join larger ones, have the inverts of the larger sewers been lowered sufficiently to maintain the same energy gradient? Yes No _____ N/A _____
- b. Have provisions been made to protect sewers at velocities of over 15 feet per second? Yes _____ No _____ N/A
- c. Are sewers secured with concrete anchors (or equal) spaced as required? Yes _____ No _____ N/A
11. Are there any overflows or bypasses on the collection system? Yes _____ No If yes, specify plan sheet(s) where shown _____
- _____
12. a. Will this project include any pump stations? Yes _____ No If yes, please complete pump station data sheet.
- b. Will there be a pump station involved in receiving sewage from future sewer extension? Yes _____ No _____ N/A If yes, specify design flows of pumping station:
- | | | |
|-------------------------|--------------------------|-----------------|
| Existing buildings; | Average daily flow _____ | peak flow _____ |
| Immediate area; | Average daily flow _____ | peak flow _____ |
| With future extensions; | Average daily flow _____ | peak flow _____ |

13. Estimate cost of sewers \$ 13,000

NOTE:

A statement that "Roof drains, foundation drains, and other clean water connections to the sanitary sewer system are prohibited", must be shown on the plans; and, in addition, copies of ordinances or regulations providing for the enforcement to this requirement must be on file with the Ohio Environmental Protection Agency. An ordinance or regulation to this effect was adopted on 7/21/75 (date). Enforcement of this ordinance is the responsibility of City of Napoleon.

It is the opinion of the sanitary engineer submitting these plans that adequate enforcement of this ordinance or regulation is being properly carried out. Yes No

Building sewers shall be constructed in accordance with specifications equal to those indicated above. Yes No

Plans for connection of a proposed installation of a county, village, or municipal sewer that is tributary to a sewage treatment plan of another political entity, must be accompanied by written consent of both entities. If applicable to this project written consent agreement is attached. Yes No N/A

Have all easements been obtained? Yes No N/A

The foregoing data is a true statement of facts pertaining to this proposed sanitary sewer installation.

Date: 10/26/90 Signed: *John A. Hillery*, P.E.
Sanitary Engineer (preparing plans)

Revised: 4/10/80

SANITARY SEWER

All work shall be performed in accord with these plans and specifications and requirements of the Ohio Environmental Protection Agency and the current specifications of the City of Napoleon, Ohio.

Excess excavated material shall be placed where directed by the Engineer. Existing utilities indicated on the plans are based on available information and are not guaranteed by the Engineer for accuracy of completeness. Any work to be performed in the area of existing utilities shall require prior notice to the utility owner.

Specifications for sanitary pipe and fittings shall be:

<u>Pipe Material</u>	<u>Material Spec.</u>	<u>Joint Spec.</u>
Clay	ASTM C-700	C-425
Plain Concrete	ASTM C-14	C-443
Reinforced Concrete	ASTM C-76	C-443
Asbestos Cement	ASTM C-428	D-1969
Polyvinyl Chloride	ASTM D-3034	D-3212

Manholes shall be four foot inside diameter with steps cast at vertical intervals not to exceed sixteen inches, pre-cast concrete conforming to ASTM C-478 with o-ring joints conforming to ASTM C-443. Pre-cast manhole adjusting rings properly grouted shall be used to bring the top of manhole to proper grade. Exfiltration of the completed sewer shall not exceed 200 gallons per hour per inch of diameter per mile. The leakage test shall be performed under the supervision of the Owners Engineer.

Sewer line crossings of pavement shall be backfilled with #310.02 ODOT Spec. material placed in layers not to exceed six (6) inches compacted thickness. A minimum vertical clearance of 18 inches between water and sewer pipe shall be maintained. In areas where this requirement cannot be met, the sewer pipe shall be of water main type pipe (which will withstand a 50 psi pressure test) for a distance of ten (10) feet each side of the water pipe. Ends of sewer services shall be marked by placing wooden markers. The wooden markers shall extend four (4) foot above the top of the sewer pipe.

Compensation for all items of work shall be based on the unit price bid for the specified unit and shall include, but not be limited to all materials, supplies, labor, equipment and other items required to complete said item. Compensation for work required for which no unit price is provided shall be included in other items of work and no additional compensation shall be allowed therefore.

Roofs drains, foundation drains and other clean water connections to the sanitary sewer system are prohibited.

BREAK SHARP EDGES - STAMP PT NO.

CLEVITE

DR.	STD. TOL.	HEAT TREAT	REQ.	MATL.	SIZE
CH.	FRAC ± 1/64		SCALE	DATE	DESIGN NO.

