II. GENERAL PLAN FOR COMBINED SEWER SEPARATION

The Village's current NPDES Permit (Part I,C, Item 2) requires the Village to develop "a General Plan for improvements to the wastewater collection system in order to eliminate combined sewer overflows...."

Finkbeiner, Pettis and Strout, Limited (FP&S) submitted a report to the Village in June, 1975 entitled Sanitary Sewerage Improvements. That report included a general plan for a new separate sanitary sewer collection system. The only parts of the then-existing system found to be adequate for use as a sanitary sewer were the 12" sewer on Smith Street and the 12" sewer on Campbell Street. The remainder of the old CSS would be utilized as storm sewers.

We have reviewed the 1975 report, and have found that the sewer separation plan is still valid with some modifications. The sanitary sewers originally proposed for the Dixon Street area must be rerouted due to conflicts with the large combined sewer in Dixon Street constructed in 1985. Also, additional gravity sewers, a pump station and force main must be added along State Route 37 to serve future development anticipated due to the planned realignment of U.S. Route 30 closer to Forest, including a new interchange with State Route 37.

The new sewer separation plan is shown in phases in Figure 2. Included in the improvements is the replacement of existing Pump Station No. 1 on Blaine Street, as originally proposed in 1975. No improvements are necessary to Pump Station No. 2 on Campbell Street.

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MAY 2 1995
OHIO E.P.A.
N.W.D.O.

April 27, 1995

Ms. Mary Beth Cohen
Division of Surface Water
Northwest Ohio EPA
347 N. Dunbridge Rd.
Bowling Green, OH 43402

Re: Forest, Ohio
General Plan to Eliminate
Combined Sewer Overflows

Dear Ms. Cohen:

In response to your March 31, 1995 letter regarding the Village of Forest's General Plan to Eliminate Combined Sewer Overflows, the Village is relieved that Ohio EPA is willing to consider a resubmittal for an amended time frame for the elimination of CSO's.

As we have indicated before, due to the large capital cost of sewer separation and availability of grant funds, it will be difficult for the village to construct a sanitary sewer system around the twelve year time frame that had previously been proposed.

A time frame that the village believes more reasonable, would be to construct the sanitary sewer system in five phases starting in 2000 and space every five years thereafter. A revised schedule and summary of the estimate total project costs for the sewer separation plan broken down by phases is as follows:

REVISED
COST ESTIMATES AND PHASING FOR
COMBINED SEWER SEPARATION

PHASE	CONSTRUCTION YEAR	ESTIMATED PROJECT COST
1	2000	$1,336,000
2	2005	$1,311,000
3	2010	$1,165,000
4	2015	$1,150,000
5	2020	$1,377,000
TOTAL	Based on 1994 dollars	$6,339,000

Contingent upon affordability and the availability of adequate grant funds, the village proposes a fixed date compliance schedule for Phase I as follows:

PROPOSED PHASE I SCHEDULE	
Apply for RECDS grant funds	1995
Apply for other grant funds	1996-1998
Design	June 1999
Bidding	November 1999
Start construction	January 2000
Complete construction	October 2000

At this time, the most promising source of grant funds is with RECDS (formerly FmHA). Due to the present backlog of applicants, we believe that a minimum of four years will be required before approval could be obtained for a RECDS grant.

The village will also pursue other grant sources such as: CDBG Competitive Water and Sewer grants (provided the village can qualify for the low income requirements) and OPWC Issue II grants (provided that the program is renewed on the fall ballot).

Your consideration in this matter is greatly appreciated. The village is available at your earliest convenience to answer any questions you may have regarding these changes.

Sincerely yours,

Charles Brunkhart

Charles Brunkhart
Administrator,
Village of Forest

CB/kr

c: Finkbeiner, Pettis & Strout, Inc.

III. COST ESTIMATES AND PHASING OF CONSTRUCTION

Due to the large capital cost of sewer separation, it is proposed to construct the sanitary sewer system in 5 phases starting in 1996 and spaced every 3 years thereafter. A summary of the estimated construction costs and total project costs for the sewer separation plan, broken down by phases, is given below.

COST ESTIMATES AND PHASING FOR COMBINED SEWER SEPARATION		
Phase	Construction Year	Estimated Total Project Cost
1	1996	$1,336,000
2	1999	1,311,000
3	2002	1,165,000
4	2005	1,150,000
5	2008	1,377,000
Total		$6,339,000
Note: All estimated costs are based on 1994 dollars.		

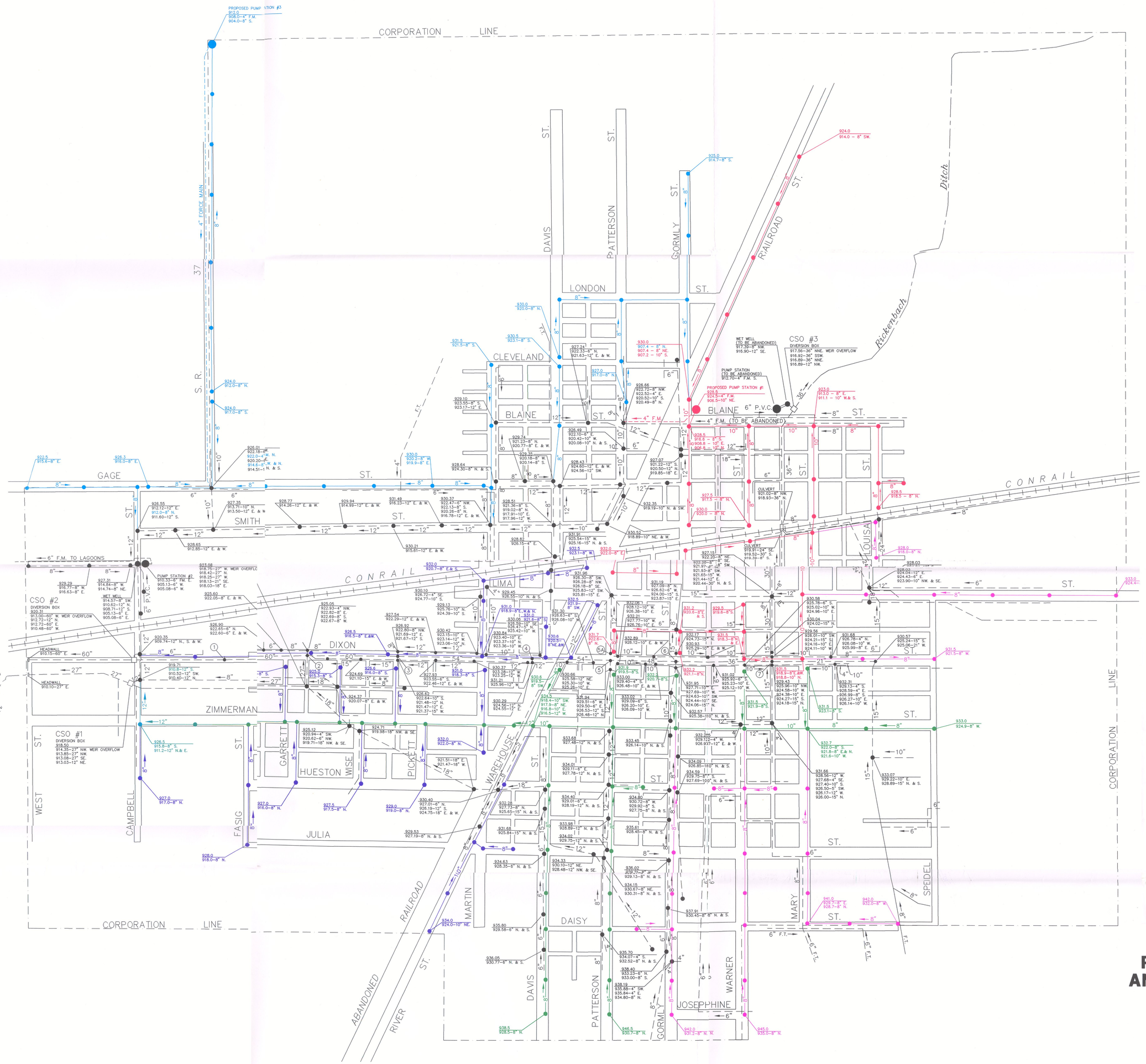
SEE ATTACHED REVISIONS DATED (RECEIVED) MAY 2, 1995

Although an accurate cost estimate can only be made after the preparation of detailed plans and specifications, estimates sufficiently accurate to permit the development of a financing program can be made from the general information furnished in this report. The above estimates are based on a current Engineering News Record (ENR) construction cost index of 5446. Thus, using the ENR index, the project estimates may be updated to reflect the cost of construction in future years.

Phase 1 of the sewer separation project includes the northeast area of the Village, including the replacement of Pump Station No. 1 on Blaine Street. Phase 2 includes the entire trunk sewer along Zimmerman Street, along with some adjacent areas. These two phases will immediately address the areas with the

most acute problems, including odor complaints in the downtown area. These phases must also be constructed first in order to serve most of the area included in Phases 3 and 4.

Phase 5 is to be constructed last, as most of the included area is now undeveloped. Because the new Pump Station No. 3 and force main on State Route 37 will serve no existing development, their construction may be delayed past 2007 if future development in that area does not occur as anticipated. Figure 2 shows the areas included in phases 1-5.



LEGEND

- PHASE 1
- PHASE 2
- PHASE 3
- PHASE 4
- PHASE 5
- EXISTING SEWER

N

250 0 250 500 750
SCALE IN FEET

ADDITIONAL DIXON STREET INVERT INFORMATION

MANHOLE	RIM ELEV.	INVERTS
1	926.74	924.87–8" N. 914.26–60" E. 913.18–60" W.
2	925.05	921.16–8" N. –27" S. 914.25–60" E. 914.25–60" W.
3	927.54	921.65–12" N. 921.46–12" S. 917.34–54" E. 915.69–60" W.
4	930.00	924.53–12" S. 917.85–54" E. 917.85–54" W.
5	931.46	925.86–12" S. 917.79–54" E. 917.79–54" W.
5A	931.75	926.06–12" N.
6	932.03	923.59–15" S. 920.89–36" E. 918.99–48" W.
7	929.24	923.64–15" N. 924.16–15" S. 922.68–21" E. 921.07–36" W.

FIGURE 2

PROPOSED SANITARY SEWE
AND PHASING OF CONSTRUC
FOREST, OHIO
GENERAL PLAN

FINKBEINER, PETTIS & STROUT, LTD.