

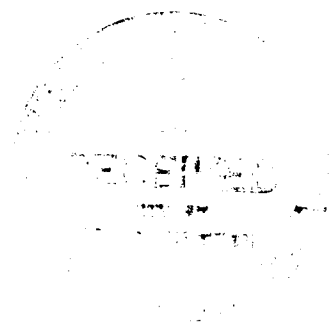
6/30/83

J:GT



City of Grand Junction, Colorado 81501
250 North Fifth St.,

Maxine Albers
Chairperson, Mesa County Commissioners
P. O. Box 897
Grand Junction, CO 81502



Dear Chairperson Albers:

I have received your recent letter of 6/27/83 concerning the proposed Section 201 Wastewater Facilities Plan update and requesting equal participation by the County in the scoping and management of the study.

It would be useful to review the history of the development of this study in order to clarify its status and purpose.

The Commissioners were alerted over three months ago during a public hearing on the 201 Boundary Extension request by Alex Thompson that a study and re-evaluation of the 201 Facilities Plan and Service Area was going to be prepared by the City, as the designated Manager/Operator of the joint sewerage system. Since then our staff, at Commissioner White's suggestion, has contacted the directors of County Planning and Comprehensive Planning regarding this study. Several meetings were subsequently held regarding the scope of work for the consulting contract under consideration. County staff comments on the proposed scope of work were favorable, and their particular suggestions were incorporated into the proposed contract.

The 201 update will primarily produce new maps and numbers enabling the City to adequately assess the current capacity of the system, including both collector and treatment capacity. A system for continuous monitoring of capacity will also be developed as part of the study. In addition, the potential impacts of new growth will be analyzed both inside and outside the current 201 Service Boundary by development of a predictive model.

Another result of the study will be to suggest procedures by which to change the 201 Service Area boundary in the future. The proposed scope of work contemplates that our staff, rather than the consultants, will do the basic research on amendment procedures. We would welcome participation by the County Attorney on this aspect of the study.

In contrast to research on boundary amendment procedures, the Update will also identify possible criteria for 201 boundary revisions. As previously indicated, we will continue to work closely with the County and Comprehensive Planning staffs in development of the criteria for your consideration.

Maxine Albers

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The 201 update will enable subsequent service area revisions to be made in an informed and comprehensive manner. No adjustments to the 201 Service Area boundary, nor limitations on future adjustments, will be accomplished by the study itself. We anticipate that adoption of criteria for boundary revision, and decisions on specific adjustments, will continue to be made by the County Commissioners.

We would encourage you and the County staff to further participate in monitoring the 201 Update, once the contract is let by the City in the near future. In scoping the Update, we have assumed a willingness by the Commissioners to participate in evaluating and acting upon the conclusions and recommendations of the Update report.

Due to the requirements of special condition #5 of the Persigo Sewer Works grant, which is referred to in the attached letter from the Colorado Dept. of Health, the City desires to avoid further delay in undertaking this study by reworking the Update proposal and jointly selecting a consultant. It is our fundamental obligation as Manager/Operator of the joint sewerage system to provide regional sewer service, to ensure grant compliance, and to designate facility capacities for specific drainage basins and the treatment works. We intend to proceed to conduct the 201 Facilities Plan Update while continuing staff-level cooperation, and by inviting further County participation as outlined above.

I trust that this letter will alleviate some of the Board's concerns about the proposed 201 Update. I would be happy to respond to any other questions or comments that you may have about this Update and other grant-related or joint sewerage system management activities.

Sincerely,

Gary Lucero
President, Grand Junction City Council

Attachment

cc - City Council Members
Jim Wysocki
Jim Patterson
Karl Metzner
Bennet Boeschstein
Ken Glover

CC

PROPOSED SCOPE OF WORK FOR CITY OF GRAND JUNCTION

201 UPDATE

GRAND JUNCTION/MESA COUNTY JOINT SEWAGE SYSTEM

THE PROJECT

The project is intended to assist the City as manager of the Joint Sewer System and Regional Wastewater Treatment Plant in preparing a 201 Facilities Plan update. This update will consist of four major sections:

1. 201 Planning Area and Service Area Update;
2. Population Projections;
3. Wastewater System Update; and
4. 201 Planning Area Update Procedure Development.

The purpose of Items 1 and 2 will be the substantial compliance with Special Condition No. 5 of EPA Grant No. C080337-26-0 and the NPDES Permit. Item 3 will serve as a status report on proposed improvements identified in the 1977 Predesign Report by HDR. Finally, the purpose of Item 4 will be to establish guidelines for review and approval of connector requests, especially outside of the present 201 Planning Area.

Specific work elements of each update area are detailed below:

1. PLANNING AREA AND SERVICE AREA UPDATE

In this section of the study, a detailed review and inventory of the service area will be undertaken to identify the present 201 Planning Area boundaries, as well as important service area characteristics. Information on boundaries, land uses, land use planning, etc. will be gathered from documents supplied by the City and County. The following work elements will be performed:

- A. Identify and describe 201 Service Area revisions, additions, and modifications. A description of the service area will be prepared utilizing general directions, monuments, and section lines and corners. The Engineer will supply (1) 30" x 40" (approximate size) wall map print and (20) 11" x 17" (approximate size) reduced prints.
- B. Identify present type and extent of development of areas within present 201 Planning Area boundaries. Determine percent of planning area presently developed and relate to wastewater treatment plant capacity.
- C. Identify and review present and proposed land use changes within the planning area which could impact future wastewater flows and loadings.

- D. Identify and review changes to the subdivisions of the 201 Planning and Service Area (i.e., Pear Park, Fruitvale, Orchard Park, etc.).

2. POPULATION PROJECTION

The population projections used in the development of future wastewater flows and loading will be reviewed in this section and new projections developed if appropriate. Tasks include:

- A. Review 1977 201 population projection figures and compare with 1980 census and latest population figures.
- B. Gather data from and coordinate with City and County planning staff.
- C. Gather data with regard to the 208 Plan (Regional Wastewater Management Plan) and otherwise coordinate with Associated Governments of Northwest Colorado.
- D. Prepare updated population projections for the 201 Planning Area and subdivisions of the 201 Planning and Service Areas.

3. WASTEWATER SYSTEM UPDATE

In this section, the status of the wastewater treatment plant and major interceptor and trunk sewers will be identified. In addition, a review of wastewater flow characteristics will be undertaken. Specific tasks will include:

- A. Inventory existing improvements to treatment and collection systems which have been accomplished since 1977. Briefly, relate these improvements to improvements proposed in the 1977 Predesign Report.
- B. Inventory improvements to the treatment and collection systems which are in progress. Again, briefly relate to proposed improvements in 1977 Predesign Report.
- C. Review wastewater flow characteristics projected in the 1977 Predesign Report in the following areas:
 - 1) Compare actual to projected flows in each subdivision of the Service Area.
 - 2) Review existing and projected per capita wastewater flows and loadings.
 - 3) Review projected and existing plant flows.
 - 4) Identify and compare present plant capacity with projected capacity.

- D. Develop a proposed methodology and procedure to input, monitor, and predict impacts of new developments within the 201 Planning Area on the wastewater treatment plant capacity and associated sewers. The description of this impact analysis shall include:
- 1) Definition of development specific data required for analysis.
 - 2) Impact prediction methodology.
 - 3) Impact monitoring methodology and reporting system.
 - 4) Identification of recommended parties, agencies, etc. who would be responsible for various impact analysis tasks and reviews.
- E. Demonstrate the methodology developed in 3.0. by analyzing the impacts of two (2) City-selected recent developments outside the 201 service area boundary. The data and information for the developments will be supplied by the City. In addition, apply the impact prediction methodology to four (4) hypothetical development cases. These cases will represent developments outside the 201 service area which will generate a wide range of wastewater flows in interceptors in high growth potential areas or locations in different sewer sub-basins. The Engineer will assist the City in developing these hypothetical cases.

A system schematic overlay will be produced showing major interceptors and flows. It should be noted that Item C of this section would be coordinated with the storm water separation study now underway. Therefore, completion of this evaluation may have to be deferred until completion of that work.

4. 201 SERVICE AREA UPDATE PROCEDURE DEVELOPMENT

In this section, a procedure will be developed to systematically amend the 201 Planning Area. Tasks will include:

- A. Assist the City in identifying review agencies and standard procedures for 201 Service Area Amendments.
- B. Identify and recommend requirements for the application of the impact analysis methodology and procedure developed in Item 3.0. to proposed developments outside the 201 Service Area.
- C. Develop incremental cost evaluation procedure for impacts identified above. Develop cost/benefit analysis criteria for an approval process for proposed developments. The analysis will relate items such as sewer tap and plant investment revenues, opportunity costs (i.e., the trade-offs of developments which are inside vs. outside the 201 Service Area), and displaced sewer and wastewater plant capacity.

5. FINAL REPORT

The 201 update findings will be compiled into report form with generated tables and figures. The preparation will include:

- A. Prepare draft report detailing data gathered, population projections, and recommended procedures for analysis of impacts and 201 Service Area Amendments. The report shall include flow data and capacity requirements/deficiencies (existing and projected) for major interceptor and trunk sewers in tubular form; and schematic diagram for major interceptor and trunk sewers (both existing and future). The intent will be to provide master plan information for development related decisions.
- B. Present draft report to City staff for final review and comments. Coordinate submittal with Colorado Department of Health (CDOH) to help insure satisfactory compliance with EPA Grant and NPDES Permit conditions.
- C. Submit (20) copies of the final report with reconciled review comments incorporated to the City.

201 UPDATE

ESTIMATED FEE BREAKDOWN

<u>Scope of Work</u>	<u>Prin.</u> <u>\$60/Hr</u>	<u>P.M.</u> <u>52</u>	<u>P.E.</u> <u>45</u>	<u>Des.</u> <u>30</u>	<u>Draf.</u> <u>22</u>	<u>Steno</u> <u>15</u>	<u>Total</u> <u>\$</u>
Hrs(\$)							
Part 1	2(120)						
A		2	16	16	30		
B		2	8	8	16		
C		2	8	3	8		
D		2	8	8	6		
	2(120)	8(416)	40(1800)	40(1200)	60(1320)	16(240)	\$ 5,096
Part 2	2(120)						
A		2	3				
B		2	12				
C		2	4				
D		2	3				
	2(120)	8(416)	32(1440)	3(240)	16(352)	16(240)	\$ 2,808
Part 3	2(120)						
A		2	3	4	4		
B		2	3	4	4		
C		2	16	12			
D		10	28	20	32		
E		4	24	3	3		
	2(120)	20(1040)	84(3780)	48(1440)	48(1056)	24(360)	\$ 7,796
Part 4	2(120)						
A		2	3				
B		4	16	4	2		
C		10	36	12	6		
	2(120)	16(832)	60(2700)	16(480)	8(176)	16(240)	\$ 4,548
Part 5							
A		4	3	16	12		
B		2	4	4	2		
C		2	4	4	2		
	2(120)	8(416)	16(720)	24(720)	16(352)	16(240)	\$ 2,568
SUBTOTAL							\$22,816
Expenses--Printing, Travel, Etc.							400
TOTAL							<u>\$23,216</u>