

April 4, 1983

Mr. Steve Johnson
Administrative Aide
Public Works & Utilities
250 North Fifth Street
Grand Junction, CO 81501

Re: 201 Update
Draft Scope of Work

Dear Steve:

Enclosed is a Draft Scope of Work for the 201 Update for your review and comment. It is my understanding that you will modify the scope to conform with your anticipated level of effort by City staff. The scope is intended to meet your requirements to update your planning documents while utilizing as much ongoing planning by the staff as possible.

I will call you in a few days after you have had a chance to review the material. Please give me a call if you have any questions before then.

Very truly yours,

HENNINGSON, DURHAM & RICHARDSON, INC.
OF COLORADO

By


W. James von Tonge, P.E.

WJvT/ch

cc: Mr. Jim Patterson

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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. Service area update; 2. population projections; 3. wastewater system update; and 4. 201 service 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 area. This review and approval is the responsibility of the City as defined in a joint sewage system agreement dated May 1, 1980. Specific work elements of each update area is detailed below:

1. 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 boundaries as well as important service area characteristics. The following work elements will be performed:

- A. Prepare documents defining the legal boundaries of the updated service area.

- B. Identify areas within present service area boundaries which are presently developed. Determine percent of service area presently developed.
- C. Identify and review present and proposed land use changes within the service area which could impact future wastewater flows and loadings.
- D. Identify and describe service area revisions, additions, and modifications.
- E. Identify and review changes to the service area subdivisions (i.e., Pear Park, Fruitvale, Orchard Park, etc.).

2. POPULATION PROJECTION

The population projections used in the development 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 and coordinate with City and County planning staff.
- C. Gather data and coordinate with Colorado West Area Council Governments.
- D. Prepare updated population projections.

3. WASTEWATER SYSTEM UPDATE

In this section the status of the wastewater treatment plant and collection system 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. 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, relate to proposed improvements in 1977 Predesign Report.
- C. Review wastewater flow characteristics projected in the 1977 Predesign Report in the following areas:
 - o Compare actual to projected flows in each service area subdivision.
 - o Review existing and projected per capita wastewater flows and loadings.
 - o Review projected and existing plant flows.
 - o Identify and compare present plant capacity with projected capacity.

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 Service Area. Tasks will include:

- A. Identify review agencies and standard procedures for 201 Area Amendments.
- B. Develop standardized impact analysis for proposed developments outside present 201 service area boundaries which are requesting inclusion in the service area. Impact factors will include percent

capacity of both the treatment plant and associated collectors.

- C. Develop incremental cost evaluation procedure for impacts identified above.
- D. Develop standard wastewater treatment alternative analysis for proposed developments requesting inclusion in the existing 201 boundary.