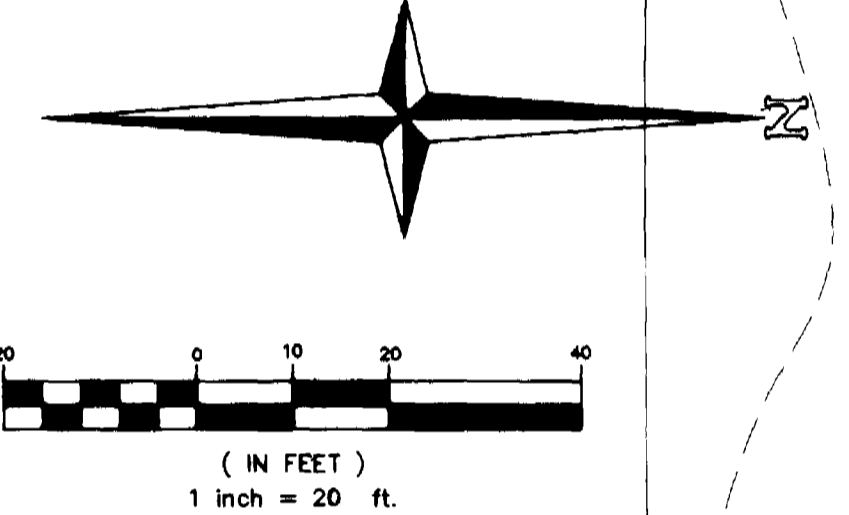
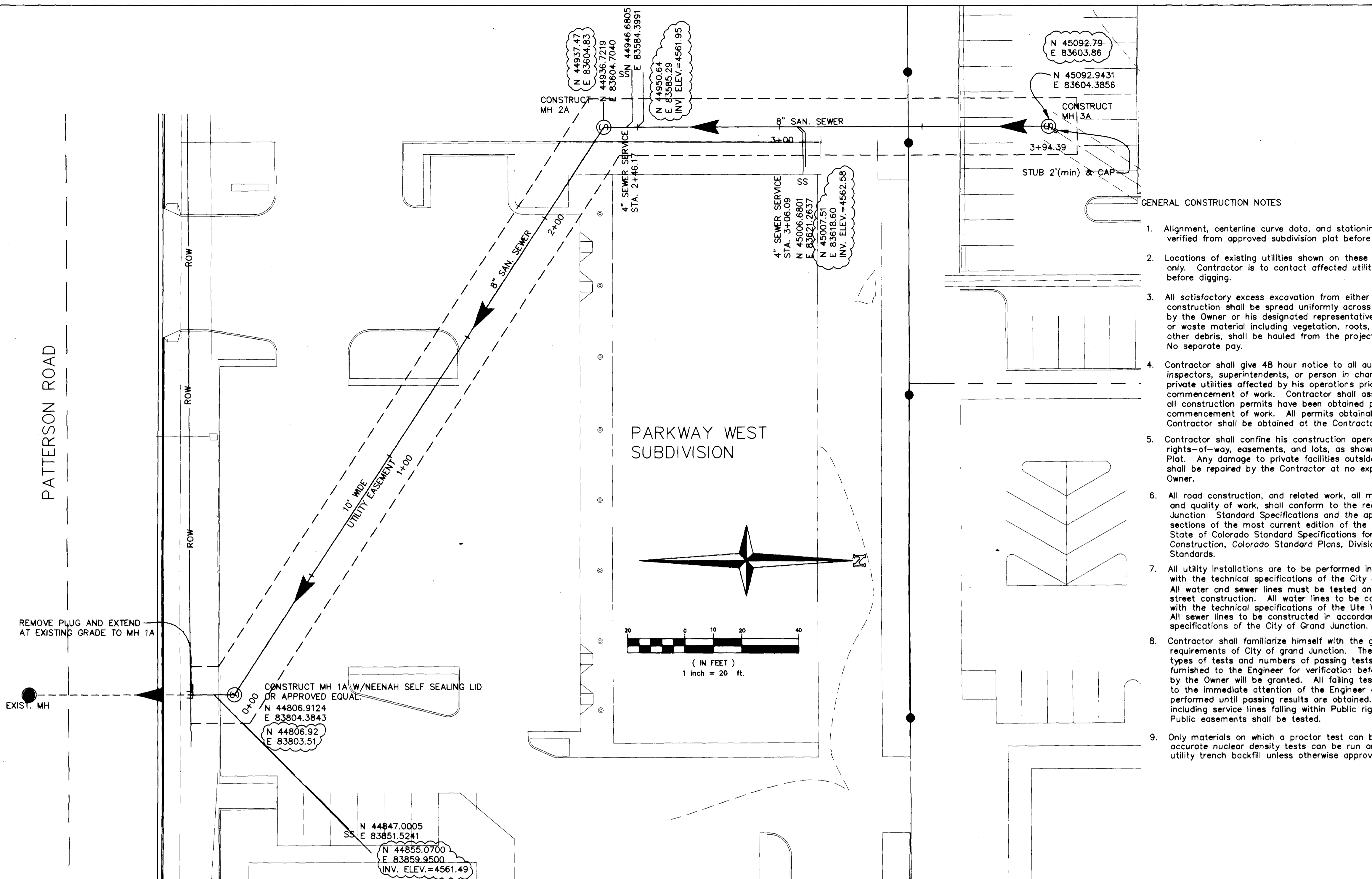


PATTERSON ROAD



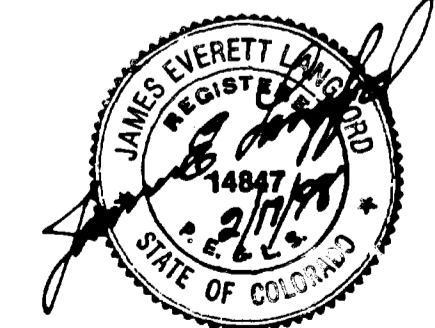
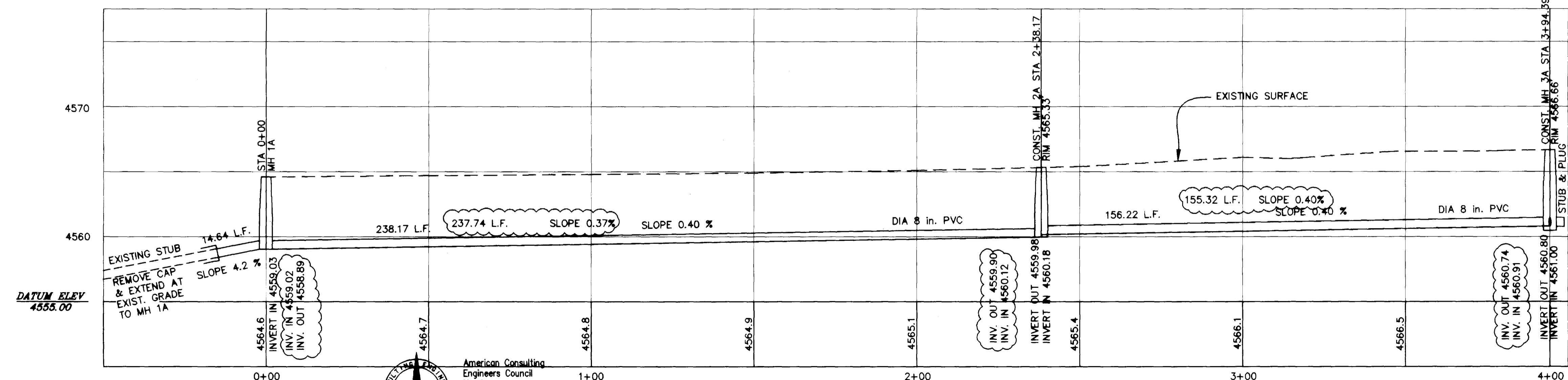
GENERAL CONSTRUCTION NOTES

- Alignment, centerline curve data, and stationing to be verified from approved subdivision plat before construction.
- Locations of existing utilities shown on these plans are approximate only. Contractor is to contact affected utility for specific locations before digging.
- All satisfactory excess excavation from either utility or street construction shall be spread uniformly across the lots as directed by the Owner or his designated representative. All unsatisfactory or waste material including vegetation, roots, concrete, rocks, or other debris, shall be hauled from the project by the Contractor. No separate pay.
- Contractor shall give 48 hour notice to all authorized inspectors, superintendents, or person in charge of public and private utilities affected by his operations prior to commencement of work. Contractor shall assure himself that all construction permits have been obtained prior to commencement of work. All permits obtainable by the Contractor shall be obtained at the Contractor's expense.
- Contractor shall confine his construction operations to the rights-of-way, easements, and lots, as shown on Plans and Plat. Any damage to private facilities outside these limits shall be repaired by the Contractor at no expense to the Owner.
- All road construction, and related work, all materials, performance and quality of work, shall conform to the requirements of City of Grand Junction Standard Specifications and the applicable sections of the most current edition of the Division of Highways, State of Colorado Standard Specifications for Road and Bridge Construction, Colorado Standard Plans, Division of Highways M & S Standards.
- All utility installations are to be performed in accordance with the technical specifications of the City of Grand Junction. All water and sewer lines must be tested and approved prior to street construction. All water lines to be constructed in accordance with the technical specifications of the Ute Water District. All sewer lines to be constructed in accordance with the technical specifications of the City of Grand Junction.
- Contractor shall familiarize himself with the geotechnical testing requirements of City of Grand Junction. The results of the required types of tests and numbers of passing tests shall be furnished to the Engineer for verification before final acceptance by the Owner will be granted. All failing tests shall be brought to the immediate attention of the Engineer and retests shall be performed until passing results are obtained. All utility lines, including service lines falling within Public rights-of-way or Public easements shall be tested.
- Only materials on which a proctor test can be performed and accurate nuclear density tests can be run are approved for utility trench backfill unless otherwise approved by the Engineer.

SANITARY SEWER CONSTRUCTION NOTES

- All sewerline construction shall conform to the City of Grand Junction Sanitation Districts standards and specifications.
- All materials and workmanship shall comply to the standards and specifications of the City of Grand Junction Sanitation District. The City of Grand Junction reserves the right to accept or reject any materials and or workmanship that does not conform to its standards and specifications.
- The Contractor shall have one signed copy of the Plans and a copy of the City of Grand Junction Standards and Specifications at the job site at all times.
- All sanitary sewer pipe shall be PVC SDR-35 unless otherwise specified. All pipe joints shall be 13 foot joints unless otherwise approved by the District Engineer.
- All sewer mains to be laid to grade utilizing a "pipe laser".
- All service line connections to the new main shall be accomplished with full body wyes or tees. Tapping saddles will not be allowed.
- All trenches shall be compacted to 95% as determined by AASHTO T-99. Contractor shall be required to perform all necessary compaction tests through a certified soils lab.
- A minimum of 10 ft. of separation shall be maintained at all times between the waterline and sewer line except at specified crossings.
- Sewer service stub-outs shall extend 14 feet beyond the property line or through front lot easements, whichever is greater, and shall be glue capped and marked with a 2"x4" post painted green.
- No service line shall be connected directly into manholes.
- The Contractor is responsible for all required sewer line testing to be completed in accordance with the City of Grand Junction Standards and Specifications. Final testing to be accomplished only after all other infrastructure has been installed. This includes waterlines, gas lines, electric lines, etc. Testing will be performed after all compaction of street subgrade and prior to street paving. Final lapping will also be accomplished after paving is completed to insure the line is clean. These tests will be the basis for issuing Initial Acceptance of the sewer line extension.
- Manholes shall be constructed as shown on the City of Grand Junction Standard Sanitary Sewer Detail Sheet.
- Water stop gaskets and clamp assemblies are to be furnished and installed at all connections to manholes. No separate pay.
- Metal grade rings are NOT to be used on top of manhole rings to adjust to finish pavement elevation. All adjustments to finish grade on new manholes shall be made using concrete grade rings and grout beneath the cast iron ring as shown on the standard details.
- All sanitary sewer services to be 4" PVC SDR 35 unless otherwise specified.
- Where sanitary sewers cross under waterline with less than 18 inches of vertical separation, and in all cases where the sanitary sewer crosses over the waterline at any depth, provide total Concrete Encasement of pipe for a length of 10 feet to either side of waterline. SEE "Standard Waterline Details". Include the cost waterline crossing (Total concrete pipe encasement, pipe, and approved backfill), in unit price bid per lineal foot of sanitary sewer in appropriate sizes.
- Only materials on which a proctor test can be performed and accurate nuclear density tests can be run are approved for sewerline trench backfill unless otherwise approved by the Engineer.
- Cleanouts are required at 100' intervals on all service lines greater than 100' in length.
- To inhibit the movement of groundwater through sewer bedding and haunching material, clay cutoff walls of native material are to be constructed approximately 10 feet upstream from each manhole as shown on sanitary sewer plan and profiles. Cutoff walls are to be 3' thick and extend to the undisturbed trench walls, bottom of excavation and over the pipe to the limits of the bedding and haunching material as shown in the "Typical Trench Detail" sheet.
- Notify the City of Grand Junction 48 hours prior to the construction of the sanitary sewer facilities.

REVISED TO AS-BUILT CONDITIONS 1/27/98



ACCEPTED FOR CONSTRUCTION FOR ONE YEAR FROM THIS DATE.

CITY OF GRAND JUNCTION

INITIAL ACCEPTANCE

CITY OF GRAND JUNCTION

DRAWN BY: CRK
 PREPARED UNDER THE SUPERVISION OF: JAMES E. LANGFORD, P.E. NO. 14847
 CHECKED BY: JEL
 REVIEWED: _____
 DATE: _____

AMERICAN CONSULTING ENGINEERS COUNCIL MEMBER
THOMPSON-LANGFORD CORP.
 529 25 1/2 RD., SUITE B210
 GRAND JUNCTION, COLORADO
 PH. (970) 243-6067

REVISION	DATE	DESCRIPTION	BY	CHKD
1	1/27/98	REVISED TO AS-BUILT CONDITIONS.	CRK	

SUN KING MANAGEMENT CORP., P.O. BOX 3299, GRAND JUNCTION, COLORADO 970-245-9173
 PROJECT NO: 0346-001
 SCALE: Horiz: 1"=20' Vert: 1"=5'
 DATE: 12/31/97 SHEET NO: 1 of 1
 C:\DCA\0346-001\PMESTSEWER\VIEW\PMEST-SEWER