

- LEGEND**
- EXISTING SANITARY SEWER MANHOLE
  - PROPOSED SANITARY SEWER MANHOLE
  - EXISTING SANITARY SEWER
  - PROPOSED 8" SANITARY SEWER
  - ELECT. CABLE EXISTING OR UNDER CONST.
  - EXISTING WATER MAIN
  - PROPOSED WATER MAIN
  - PROPOSED OR EXISTING MAILBOX
  - PROPOSED OR EXISTING FIRE HYDRANT
  - ⊗ STREET LIGHT
  - WATER METER PIT
  - ⊕ WATER VALVE
  - UTILITY POLE

**CONSTRUCTION NOTES** Δ

- ① TIE-IN TO EXISTING MANHOLE WITH A DROP ASSEMBLY AS PER THE "DROP MANHOLE" DETAIL SHOWN ON EXHIBIT "I" OF THE CITY OF GRAND JUNCTION STANDARD DRAWINGS. INVERT ELEVATION OF DROP SHALL BE DETERMINED IN THE FIELD AND SHALL BE APPROVED BY THE CITY UTILITY ENGINEER. THE INTERIOR SURFACE OF THE MANHOLE SHALL BE EPOXY COATED ACCORDING TO CITY STANDARDS ONCE DROP STRUCTURE IS IN PLACE.
- ② INSTALL NEW 48" DIA. RCP STANDARD SEWER MANHOLE. TOP OF NEW MANHOLE CONE SECTION SHALL BE SET AT ELEVATION 35.10. GRADE RINGS SHALL BE USED TO SET RIM AT ELEVATION 36.60. MANHOLE RING SHALL BE CONCRETE IN PLACE WITH A #4 REBAR HOOP PER CITY OF GRAND JUNCTION STANDARD DRAWINGS.
- ③ CONNECT TO EXISTING 8" C.I.P. WATER MAIN WITH AN 8"x8" TEE. INSTALL 6" GATE VALVE IMMEDIATELY ADJACENT TO THE TEE ON THE NEW 6" MAIN.
- ④ INSTALL FIRE HYDRANT AND LATERAL WITH VALVE AND REQUIRED THRUST BLOCKS PER EXHIBIT "H" OF THE CITY OF GRAND JUNCTION STANDARD DRAWINGS.
- ⑤ INSTALL 6"x2" REDUCER ON THE NEW WATER MAIN IMMEDIATELY UPSTATION FROM THE FIRE HYDRANT ASSEMBLY.
- ⑥ END NEW WATERLINE WITH CAP AND CONCRETE THRUST BLOCK.

**GENERAL NOTES** Δ

1. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE CITY. THE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY MATERIALS AND/OR WORKMANSHIP THAT DOES NOT CONFORM TO THEIR SPECIFICATIONS.
2. THE CONTRACTOR SHALL HAVE ONE SIGNED COPY OF THE PLANS, AND A COPY OF THE CITY STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES.
3. SANITARY SEWER AND WATER MAINS TO BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH CITY OF GRAND JUNCTION STANDARD DRAWINGS AND SPECIFICATIONS. (SEE EXHIBITS "H" AND "I" OF THE STANDARD DRAWINGS)
4. ALL SANITARY SEWER PIPE TO BE PVC SDR-35 UNLESS OTHERWISE NOTED.
5. ALL WATER MAINS SHALL BE LAID TO GRADE UTILIZING A LASER.
6. ALL SERVICE LINE CONNECTIONS TO THE NEW SEWER MAIN SHALL BE ACCOMPLISHED WITH FULL-BODY WYES OR TEES. TAPPING SADDLES WILL NOT BE ALLOWED.
7. A MINIMUM OF 10 FEET HORIZONTAL SEPARATION SHALL BE MAINTAINED AT ALL TIMES BETWEEN THE WATERLINE AND SEWER LINE (EXCEPT AT SPECIFIED CROSSINGS).
8. ALL STUBOUTS FOR SEWER MAINS AND LATERALS SHALL HAVE GLUED CAPS INSTALLED.
9. SANITARY SEWER LATERALS SHALL BE EXTENDED TO LOCATIONS SHOWN ON THE PLAN AND SHALL BE GLUE CAPPED AND MARKED WITH 2x4 POSTS PAINTED GREEN.
10. MIN. COVER OF 6' SHALL BE MAINTAINED OVER ALL SANITARY SEWER MAINS. MIN. COVER OF 3' SHALL BE MAINTAINED OVER ALL SANITARY SEWER SERVICE LATERALS.
11. ALL WATER MAIN PIPE SHALL BE C900-CLASS 150 PVC UNLESS OTHERWISE NOTED.
12. WATER METER PITS AND YOKES WILL BE FURNISHED BY THE CITY OF GRAND JUNCTION FOR INSTALLATION BY THE CONTRACTOR.
13. WATER METER PITS SHALL BE PLACED 2' BEHIND ANY PLANNED SIDEWALK.
14. MIN. COVER OF 4' SHALL BE MAINTAINED OVER ALL WATER MAINS AND WATER SERVICE LINES.
15. ALL BURIED UTILITIES SHALL BE BACKFILLED AND COMPACTED ACCORDING TO CITY OF GRAND JUNCTION STANDARD DRAWINGS AND SPECIFICATIONS.

**UTILITY LEGEND**

- WM = WATER METER
- GM = GAS METER
- EM = ELECTRIC METER
- G = GAS
- T = TELEPHONE
- E = ELECTRIC
- W = WATER
- OH = OVERHEAD
- IRR = IRRIGATION
- FH = FIRE HYDRANT

**UTILITY COMPOSITE**

- 1) THE LOCATION OF UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY, NO CONSTRUCTION SHALL COMMENCE UNTIL FIELD LOCATES AND UTILITY VERIFICATIONS HAVE BEEN MADE.
- 2) THE CONTRACTORS SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY LOCATOR SERVICE 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES. ALL EXISTING UTILITIES SHALL BE CLEARLY MARKED IN THE FIELD PRIOR TO ANY DIGGING AFFECTING THEM, AND THE CONTRACTORS SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONSTRUCTION. THE UTILITY LOCATOR SERVICE NUMBER IS 1-800-922-1987.

**UTILITY PROVIDERS**

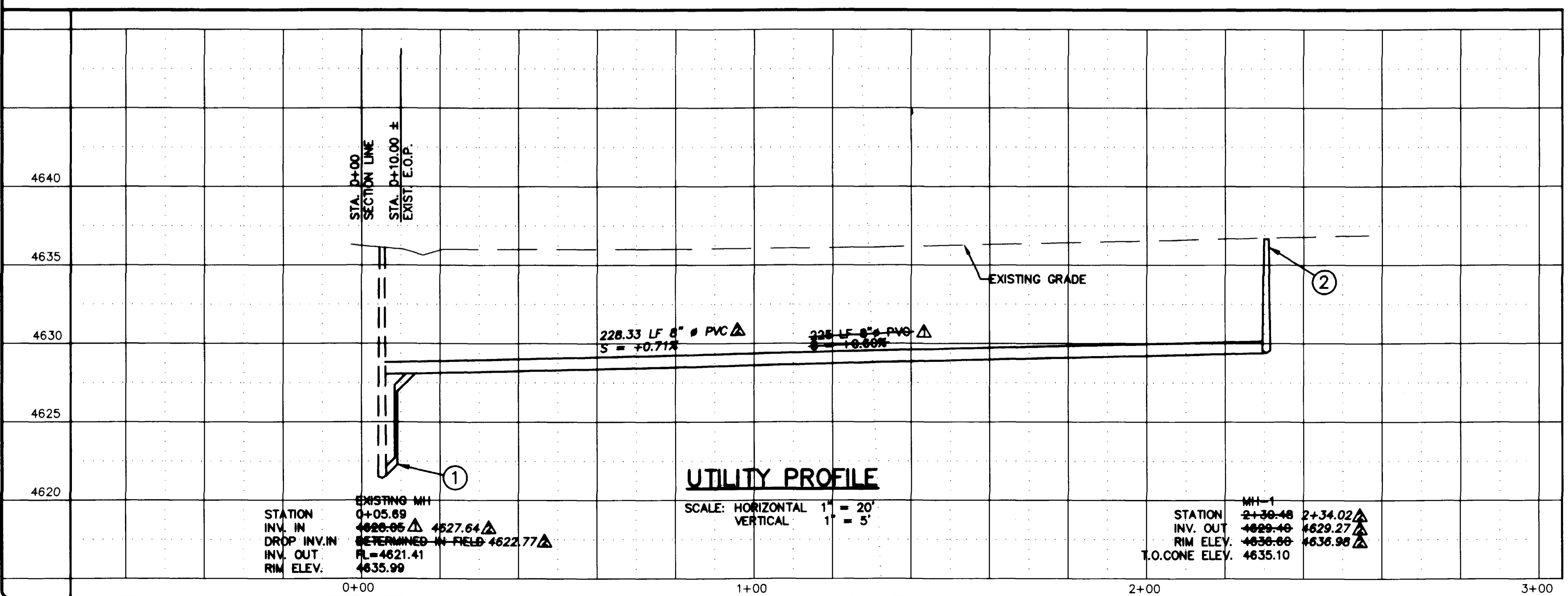
- WATER: CITY WATER
- ELECTRIC: PUBLIC SERVICE
- GAS: PUBLIC SERVICE
- TELEPHONE: USWEST
- SEWER: CITY SEWER
- CABLE: TCI
- IRRIGATION: ORCHARD MESA IRR. DIST.

**APPROVED FOR CONSTRUCTION**

CITY UTILITY ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

**ACCEPTED AS CONSTRUCTED**

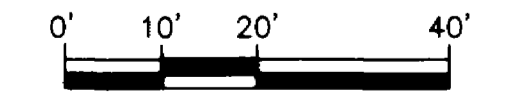
CITY UTILITY ENGINEER *TS/PL* DATE *5/14/99*



**AS-BUILT DRAWING**

CONTOUR INTERVAL : 0.2'

SCALE: 1" = 20'



**BASIS OF BEARING:**  
BASIS OF BEARING is the section line between the Mesa County Survey Marker (MCSM) at the NW corner of the NW 1/4 SW 1/4 NW 1/4 of Sec. 25, T1S, R1W, U.M., and MCSM 1163, as shown on the final plat. Such bearing is recorded in Book 2226 Page 411 as S 90°00'00" E.

**BENCHMARK:**  
BENCHMARK is the rim of the existing sanitary sewer manhole that is located in the intersection of "B" 3/4 Rd. and Pinon St. Elevation equals 4635.99 Above Sea Level.

**DAUGHTERS COVE SUBDIVISION**

**SEWER & WATER PLAN & PROFILE**

NO.	DATE	REMARKS	BY
1	4/14/99	CITY REVIEW	MDY
2	5/17/99	ASBUILT INFORMATION	MDY

DESIGNED BY: EWH

REVIEWED BY: MDY  
P.E. No. 29912

SURVEYED BY: CDC  
P.L.S. No. 24943

SURVEY DATE:  
6-18-96

DRAWN BY:  
EWH

DATE DRAWN:  
11-25-96

SCALE: HORIZ. 1"=20'  
VERT. 1"=5'

ACAD DRAWING NAME:  
DAUG-PP2.DWG

PROJECT NUMBER:  
96-109-0804

SHEET NUMBER:

CLIENT:  
MR. RICHARD BISHOP  
3192 KENNEDY AVE.  
GRAND JUNCTION, CO  
81904

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