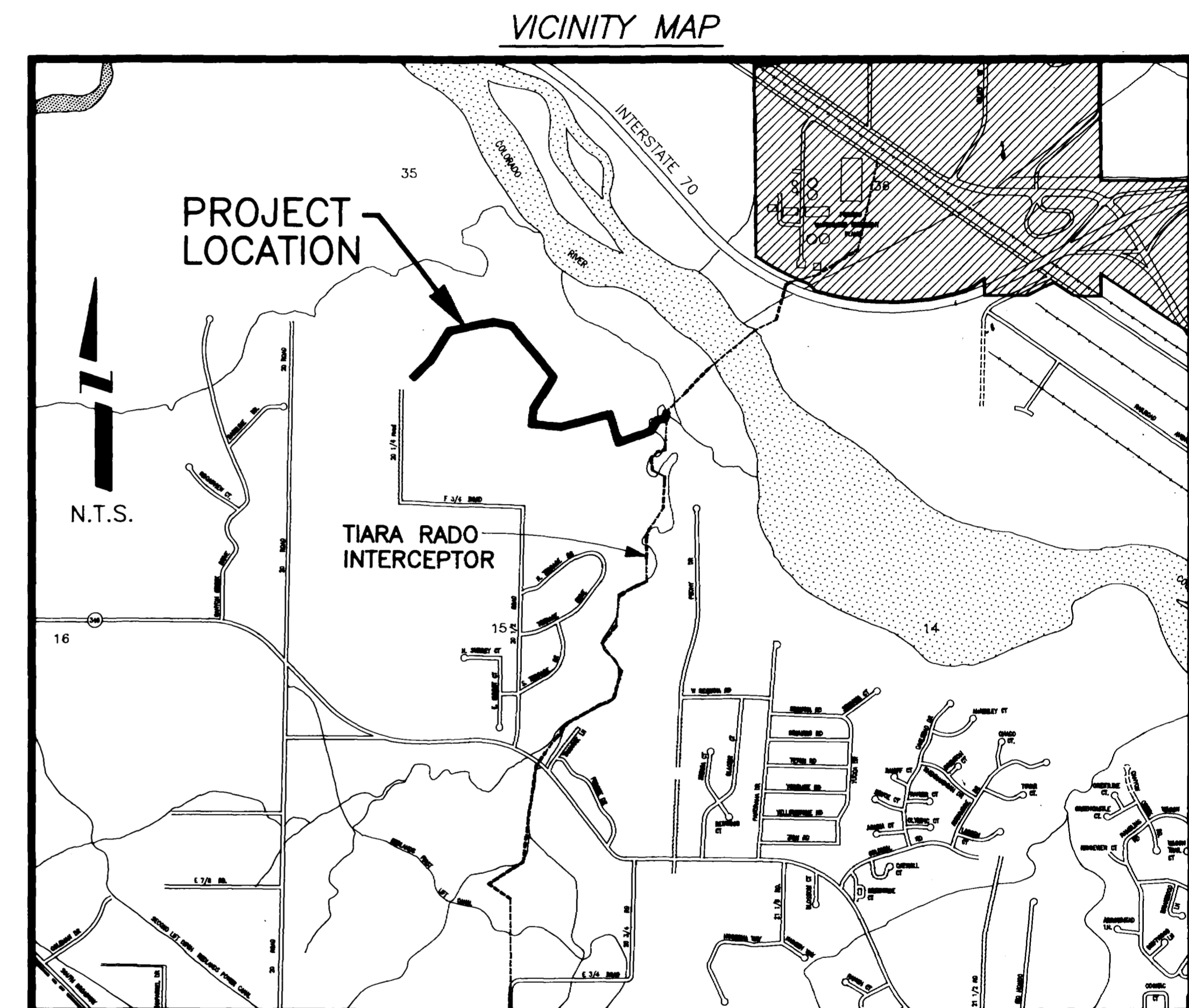


INDEPENDENCE VALLEY SEWER LINE EXTENSION 1992-1993

1. Cover Sheet
2. Drafting Standards and Abbreviations
3. Summary of Approximate Quantities
- 4-7 Plan & Profile
- 8 Standard Sanitary Sewer Details "Exhibit I"



CONTRACTOR: LYLE STATES CONSTRUCTION
PROJECT ENGINEER: KENT HARBERT / BILL CHENEY (DESIGN ENGINEER)
PROJECT INSPECTOR: TIM PATTY / WALT HOYT (CHIEF INSPECTOR)
NOVEMBER 1992 TO MARCH 1993

City of Grand Junction, Colorado
Department of Public Works & Utilities *Engineering Division*

ITEM NO.	REF. NO.	CONTRACT ITEM	UNIT	QUANTITY	ITEM NO.	REF. NO.	CONTRACT ITEM	UNIT	QUANTITY
1	202	CLEAR AND GRUB	L.S.	L.S.					
2	206	IMPORTED BACKFILL (400')	CU. YD.	600 492					
3	207	REMOVE/STOCKPILE TOPSOIL (15'x4600')	SQ. YD.	7,670 6,368					
4	210	REMOVE/RESET FENCES	L.S.	L.S.					
5	212	REVEGETATE AND FERTILIZE (50' WIDE)	SQ. YD.	10,800 10,421					
6	213	MULCH (50' WIDE)	SQ. YD.	10,800 9,348					
7	216	SLOPE REINFORCEMENT (15'x200')	SQ. YD.	333 283.06					
8	304	SUBGRADE STABILIZATION (400')	TONS	90 42.75					
9	603	INSTALL 8" DIP (CITY FURNISHED)	LIN. FT.	330 327					
10	603	FURNISH AND INSTALL 8" P.V.C. SDR 35, ASTM 3034	LIN. FT.	4,424 4,401.77					
11	604	48" DIA MANHOLE <7'	EACH	4 6					
12	604	48" DIA MANHOLE 7'-10"	EACH	6 6					
13	604	48" DIA MANHOLE >10'	EACH	3 2					
14	604	48" DIA DROP MANHOLE >10'	EACH	1					
15	604	CONNECTION TO EXISTING DROP MANHOLE	EACH	1					
16	626	MOBILIZATION	L.S.	L.S.					
17	709	WIRE ROPE CONNECTION AT MH-2	L.S.	L.S.					

REVISION Δ AS-BUILT C.A.K.	DATE 8/9/93	DRAWN BY C.A.K.	DATE 9/16/92	SCALE
REVISION Δ		CHECKED BY T.A.B.	DATE 9/16/92	PLAN
REVISION Δ		APPROVED BY B.C.	DATE 9/16/92	HORIZ. N.T.S.
REVISION Δ		FIELD BOOK NO.	PAGE	VERT.

DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING DIVISION
CITY OF GRAND JUNCTION, COLORADO

INDEPENDENCE VALLEY
SANITARY SEWER
SUMMARY OF APPROXIMATE QUANTITIES

SHEET NO. 3
OF 8
FILE NO. 99213-QS.DWG

BENCH MARK
 (A) G.L.O. SECT 14 & SECT 15
 STA. 0+45.77, 104.51' RT.
 ELEV.=4569.63

2947-151-02-058
 FRANCIS AND MARY HUTTO
 676 PEONY DRIVE
 GRAND JUNCTION, CO 81503

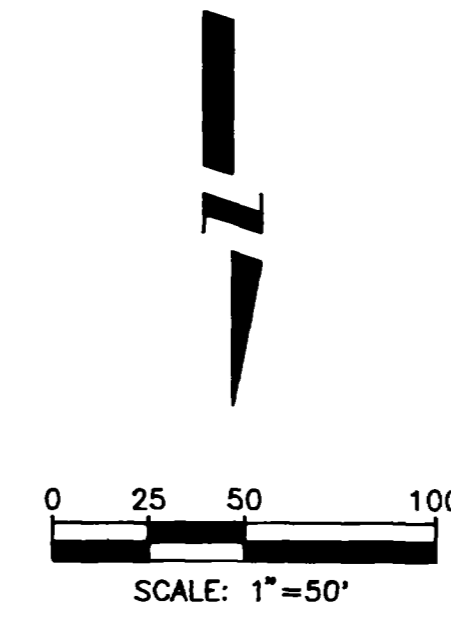
NOTE:
 FROM MH #1 SOUTH TOWARD'S
 DRAINAGE AN AREA 121' L x 32' W
 WAS REVEGETATED 430 S.Y.
 (NO MULCH)

AREA OF REVEGETATION ONLY
 (NO MULCH)

NOTE:
 FROM MH #1 NORTH TOWARD'S
 LIFT STATION AN AREA 210' L x 12' W
 WAS REVEGETATED 280 S.Y.
 (NO MULCH)

2947-151-00-125
 ALBERT AND LEATHA STASSEN
 673 20 1/2 ROAD
 GRAND JUNCTION, CO 81503

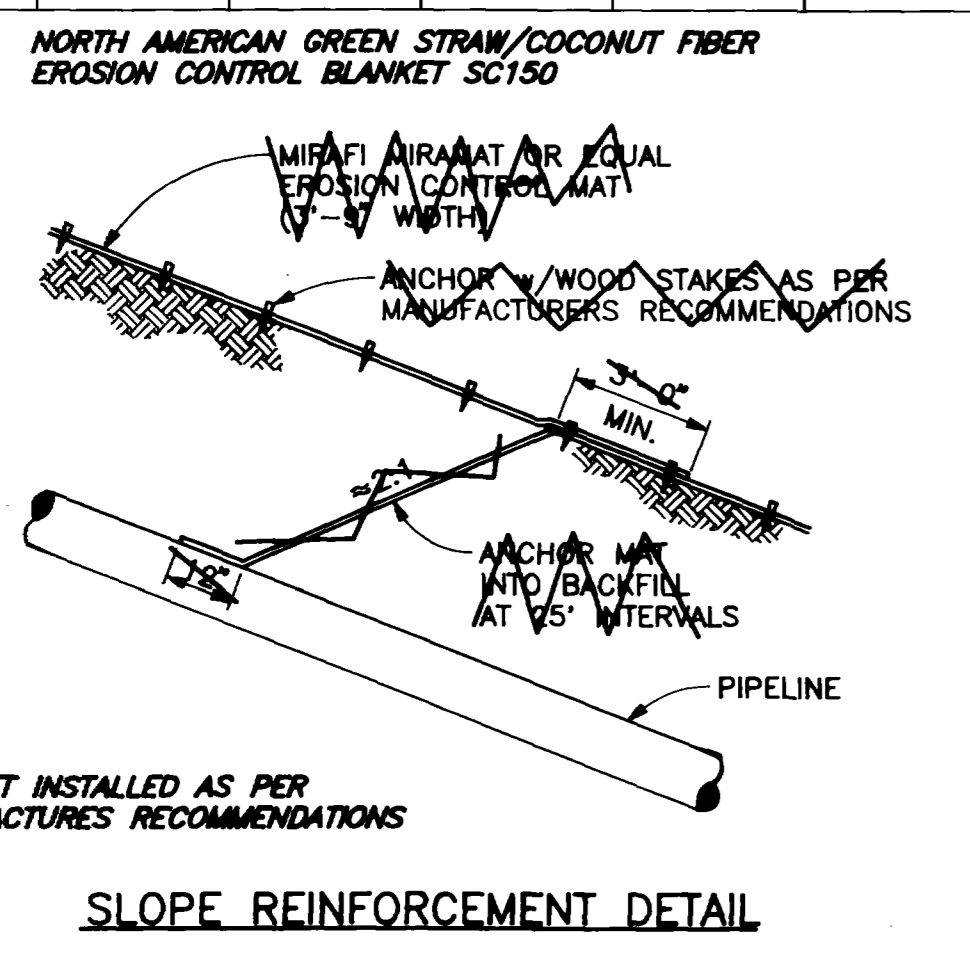
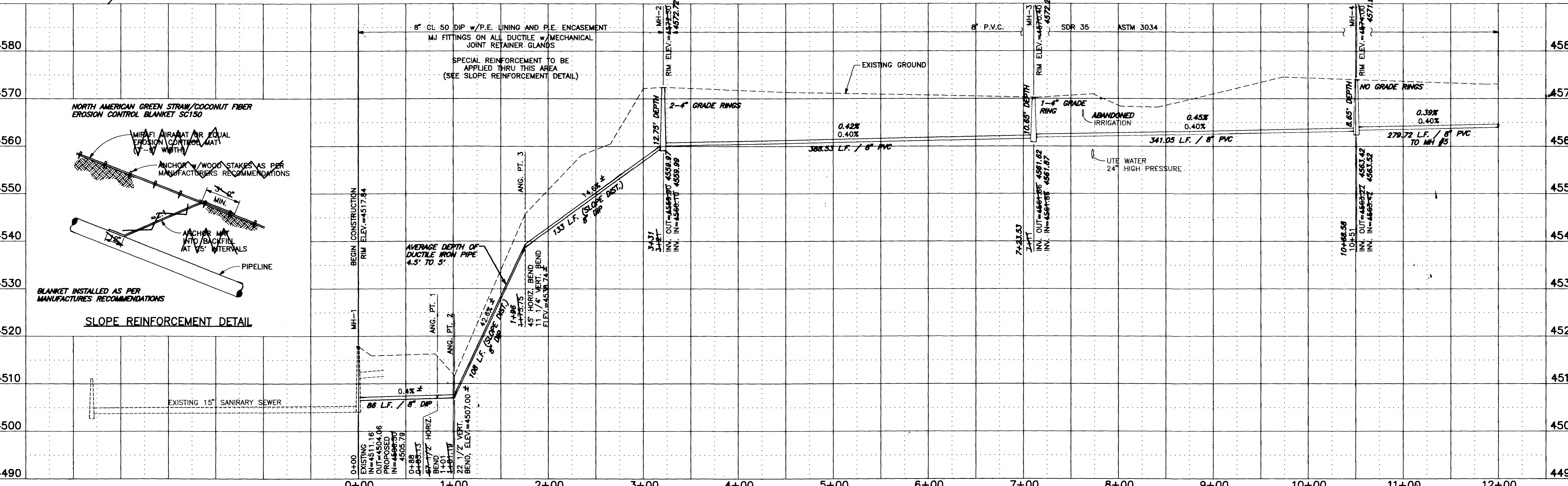
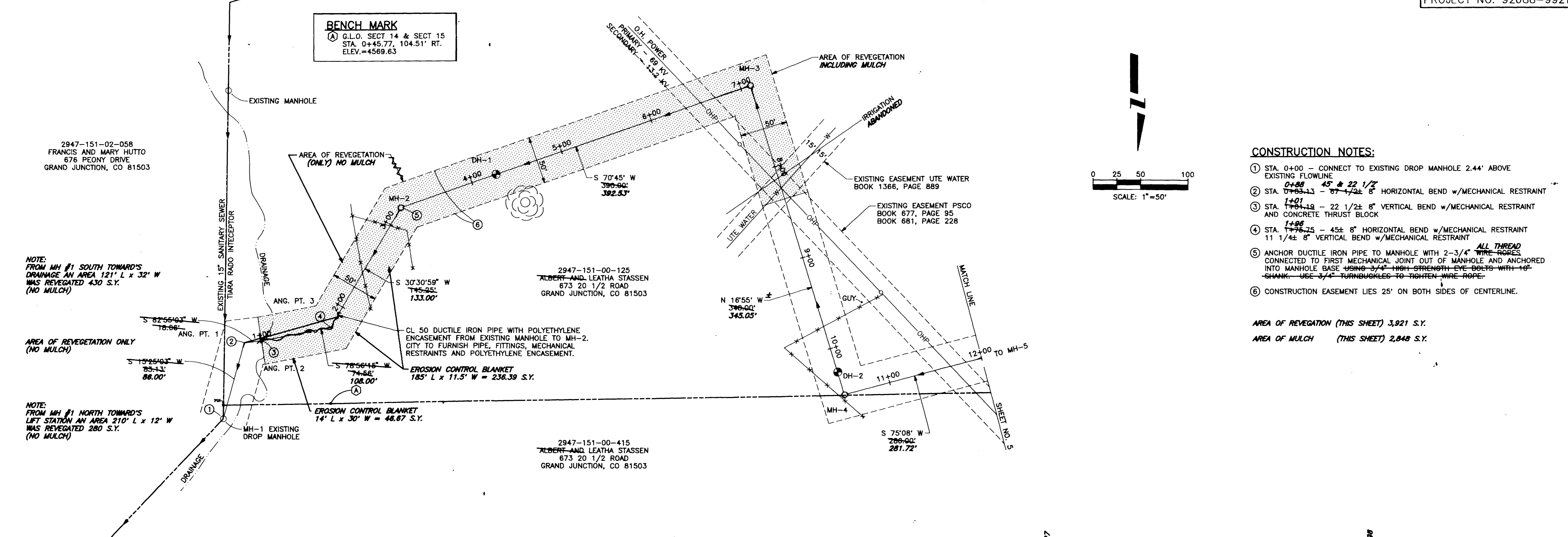
2947-151-00-415
 ALBERT AND LEATHA STASSEN
 673 20 1/2 ROAD
 GRAND JUNCTION, CO 81503



CONSTRUCTION NOTES:

- ① STA. 0+00 - CONNECT TO EXISTING DROP MANHOLE 2.44' ABOVE EXISTING FLOWLINE
- ② STA. 0+88.13 - 67' ± 1/2" 8" HORIZONTAL BEND w/MECHANICAL RESTRAINT
- ③ STA. 1+01.19 - 22' 1/2" 8" VERTICAL BEND w/MECHANICAL RESTRAINT AND CONCRETE THRUST BLOCK
- ④ STA. 1+76.25 - 45± 8" HORIZONTAL BEND w/MECHANICAL RESTRAINT 11' 1/4" 8" VERTICAL BEND w/MECHANICAL RESTRAINT
- ⑤ ANCHOR DUCTILE IRON PIPE TO MANHOLE WITH 2-3/4" ALL THREAD WIRE-ROPS CONNECTED TO FIRST MECHANICAL JOINT OUT OF MANHOLE AND ANCHORED INTO MANHOLE BASE USING 3/4" HIGH STRENGTH EYE BOLTS WITH 16" SHANK. USE 3/4" TURNBUCKLES TO TIGHTEN WIRE ROPE.
- ⑥ CONSTRUCTION EASEMENT LIES 25' ON BOTH SIDES OF CENTERLINE.

AREA OF REVEGATION (THIS SHEET) 3,921 S.Y.
 AREA OF MULCH (THIS SHEET) 2,848 S.Y.



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
AS-BUILT, C.A.K.		8/9/93	C.A.K.	9/16/92
			T.A.B.	9/16/92
			B.C.	9/16/92

SCALE	
PLAN	PROFILE
HORIZ. 1"=50'	HORIZ. 1"=50'
	VERT. 1"=10'

DEPARTMENT OF PUBLIC WORKS AND UTILITIES
 ENGINEERING DIVISION
 CITY OF GRAND JUNCTION, COLORADO

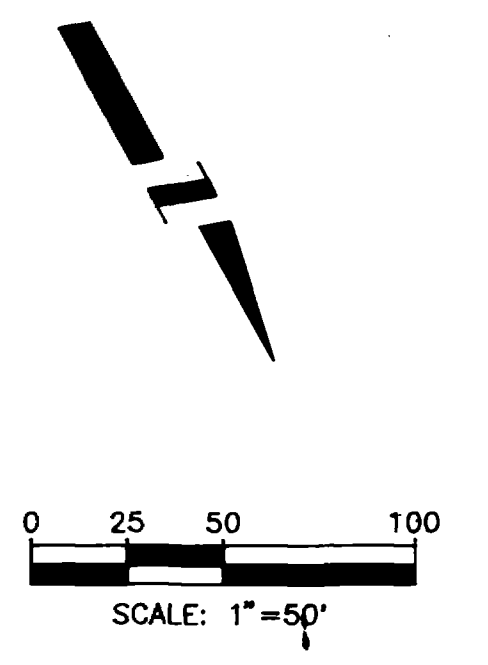
INDEPENDENCE VALLEY
 SEWER LINE EXTENSION
 Plan & Profile

SHEET NO. 4
 OF 8
 FILE NO. 99213-01.DWG

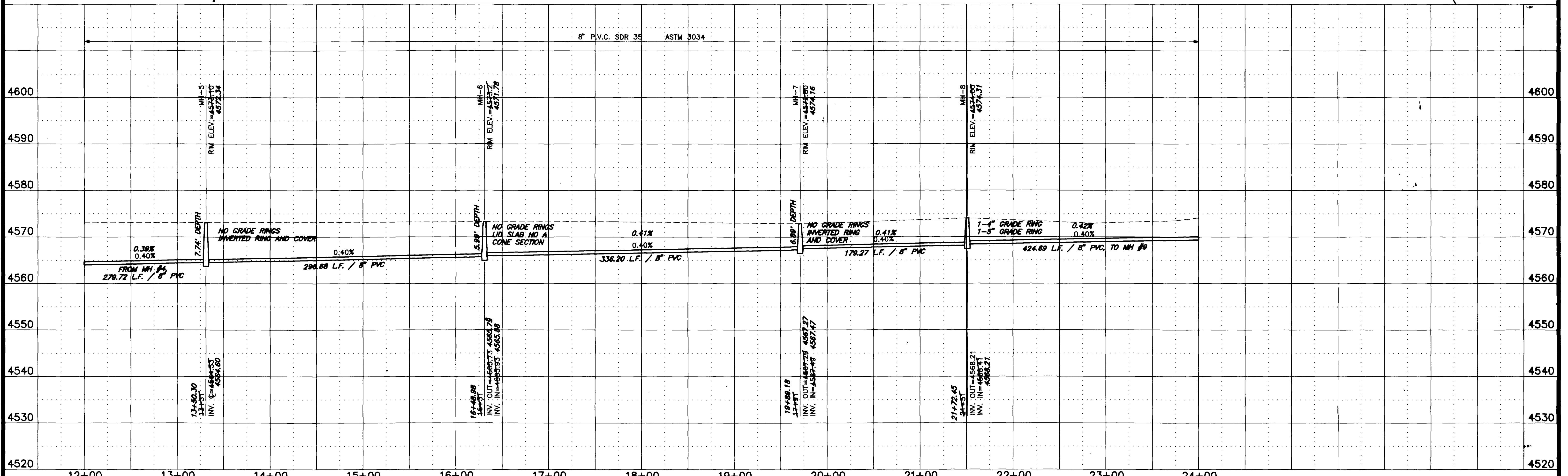
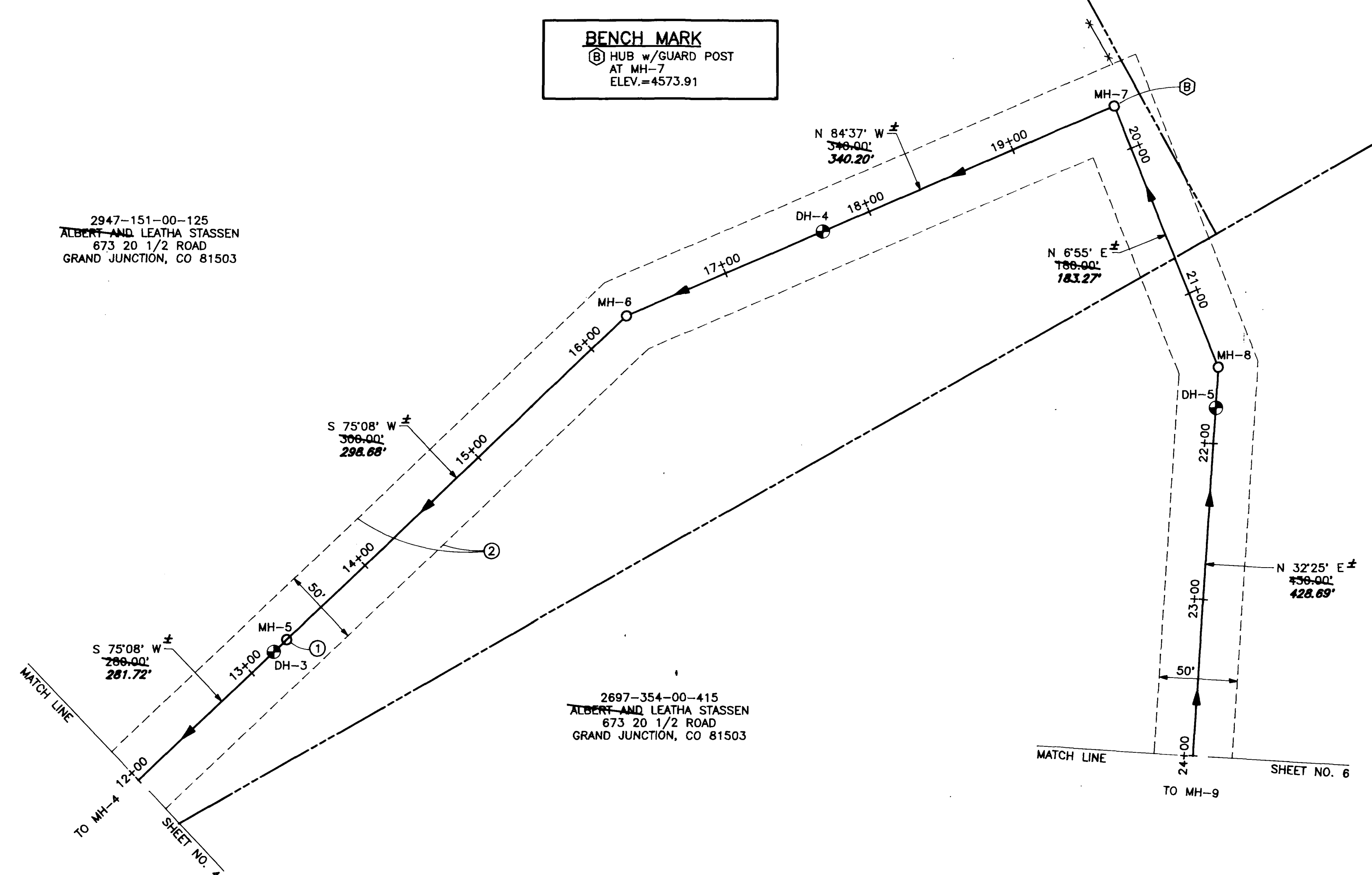
BENCH MARK
 (B) HUB w/GUARD POST
 AT MH-7
 ELEV.=4573.91

2947-151-00-125
 ALBERT AND LEATHA STASSEN
 673 20 1/2 ROAD
 GRAND JUNCTION, CO 81503

2697-354-00-415
 ALBERT AND LEATHA STASSEN
 673 20 1/2 ROAD
 GRAND JUNCTION, CO 81503



- CONSTRUCTION NOTES:**
- ① LAY PIPE THROUGH MH-5
 - ② CONSTRUCTION EASEMENT LIES 25' ON BOTH SIDES OF CENTER LINE.

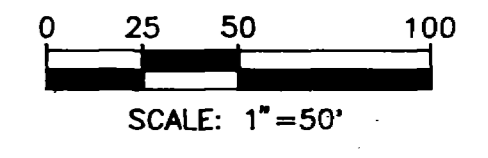
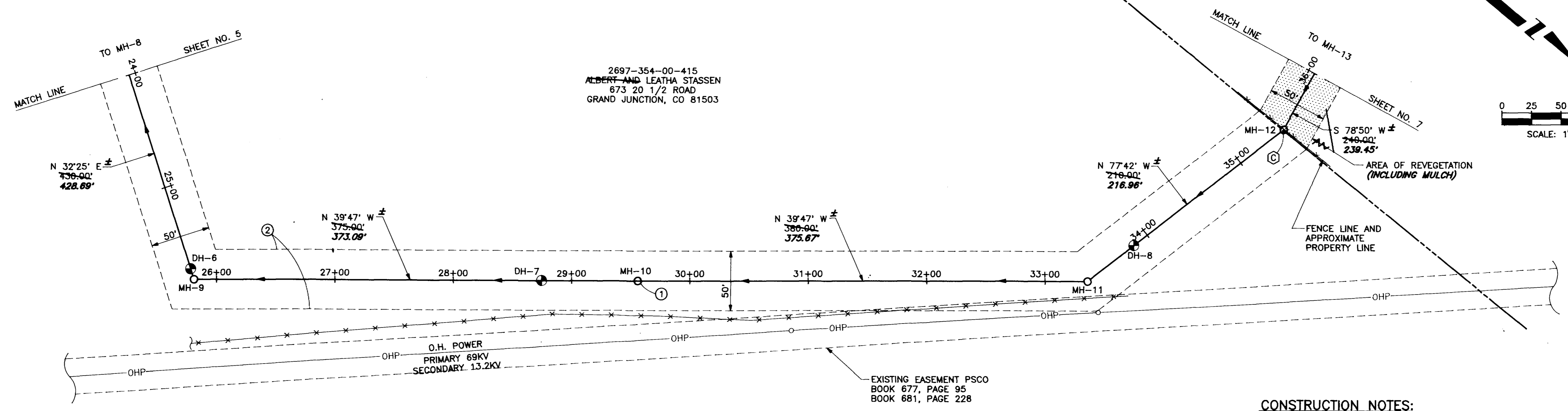


REVISION Δ AS-BUILT, C.A.K. DATE 9/10/93 REVISION Δ _____ DATE _____ REVISION Δ _____ DATE _____	DRAWN BY _____ DATE 9/16/92 CHECKED BY _____ DATE 9/16/92 APPROVED BY _____ DATE 9/16/92 FIELD BOOK NO. _____ PAGE _____	SCALE PLAN 1"=50' PROFILE 1"=10'	DEPARTMENT OF PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION CITY OF GRAND JUNCTION, COLORADO	INDEPENDENCE VALLEY SEWER LINE EXTENSION Plan & Profile	SHEET NO. 5 OF 8 FILE NO. 99213-02.DWG
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BENCH MARK
 (C) HUB w/GUARD STAKE
 AT MH-12
 ELEV.=4585.63

2697-354-00-411
 JOHN AND KATHERINE SCHUMACHER
 608 VIEWPOINT DRIVE
 GRAND JUNCTION, CO 81506

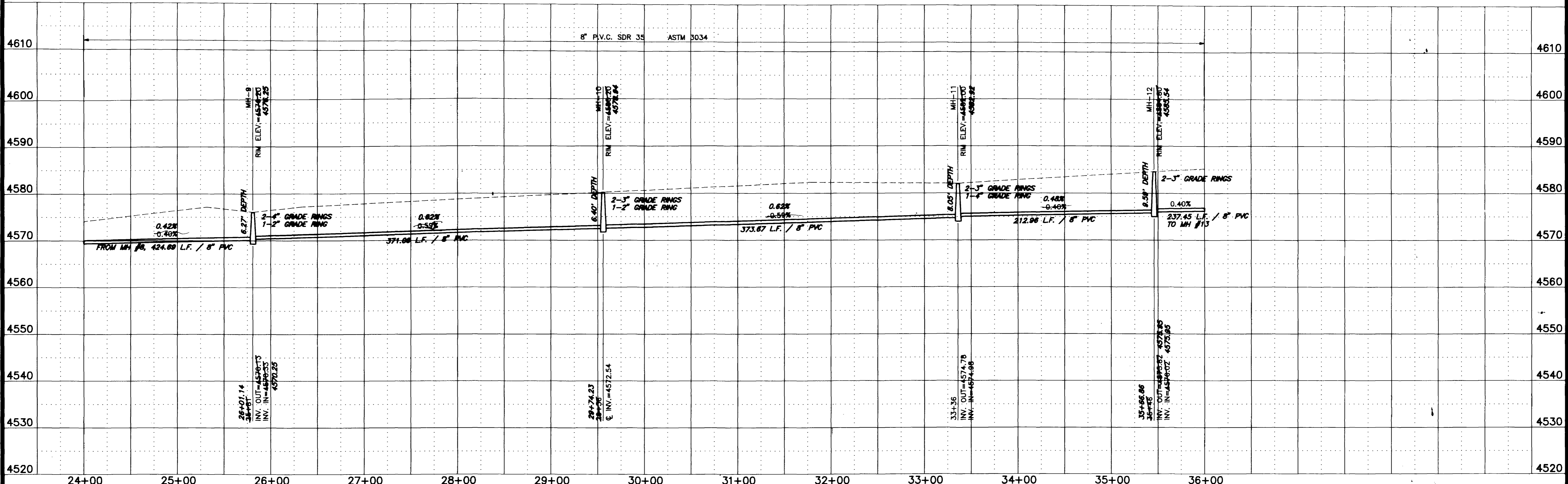
2697-354-00-415
 ALBERT AND LEATHA STASSEN
 673 20 1/2 ROAD
 GRAND JUNCTION, CO 81503



CONSTRUCTION NOTES:

- ① LAY PIPE THROUGH MH-10
- ② CONSTRUCTION EASEMENT LIES 25' ON BOTH SIDES OF CENTER LINE

AREA OF REVEGETATION (THIS SHEET) 278 S.Y.
 AREA OF MULCH (THIS SHEET) 278 S.Y.



REVISION	AS-BUILT, C.A.K.	DATE	8/10/93
REVISION		DATE	
REVISION		DATE	
REVISION		DATE	

DRAWN BY	C.A.K.	DATE	9/16/92
CHECKED BY	T.A.B.	DATE	9/16/92
APPROVED BY	B.C.	DATE	9/16/92
FIELD BOOK NO.		PAGE	

SCALE	
HORIZ.	1"=50'
VERT.	1"=10'

DEPARTMENT OF PUBLIC WORKS AND UTILITIES
 ENGINEERING DIVISION
 CITY OF GRAND JUNCTION, COLORADO

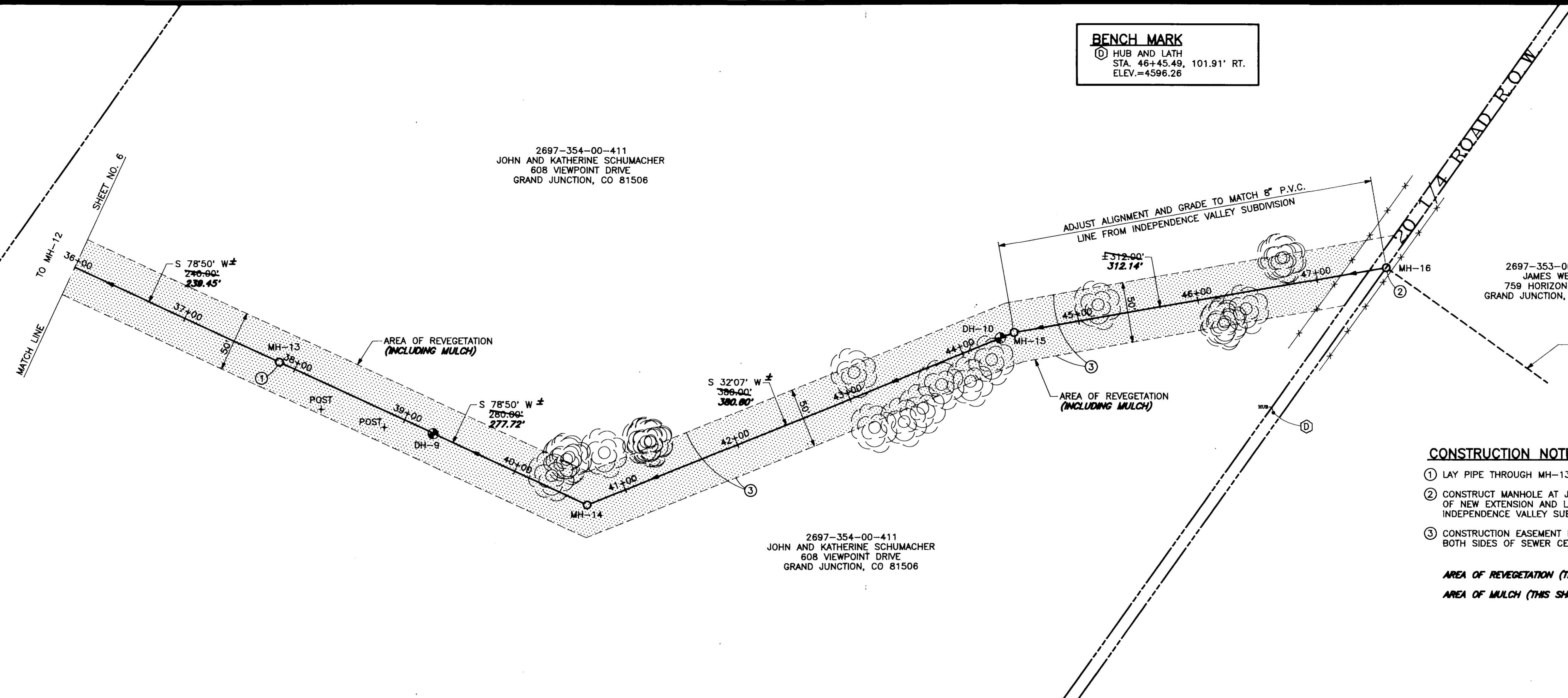
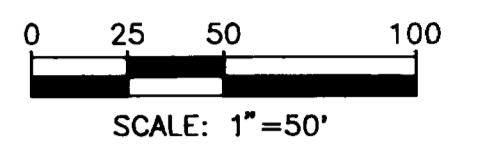
INDEPENDENCE VALLEY
 SEWER LINE EXTENSION
 Plan & Profile

SHEET NO.	6
OF	8
FILE NO.	99213-03.DWG

BENCH MARK
 ① HUB AND LATH
 STA. 46+45.49, 101.91' RT.
 ELEV.=4596.26

2697-354-00-411
 JOHN AND KATHERINE SCHUMACHER
 608 VIEWPOINT DRIVE
 GRAND JUNCTION, CO 81506

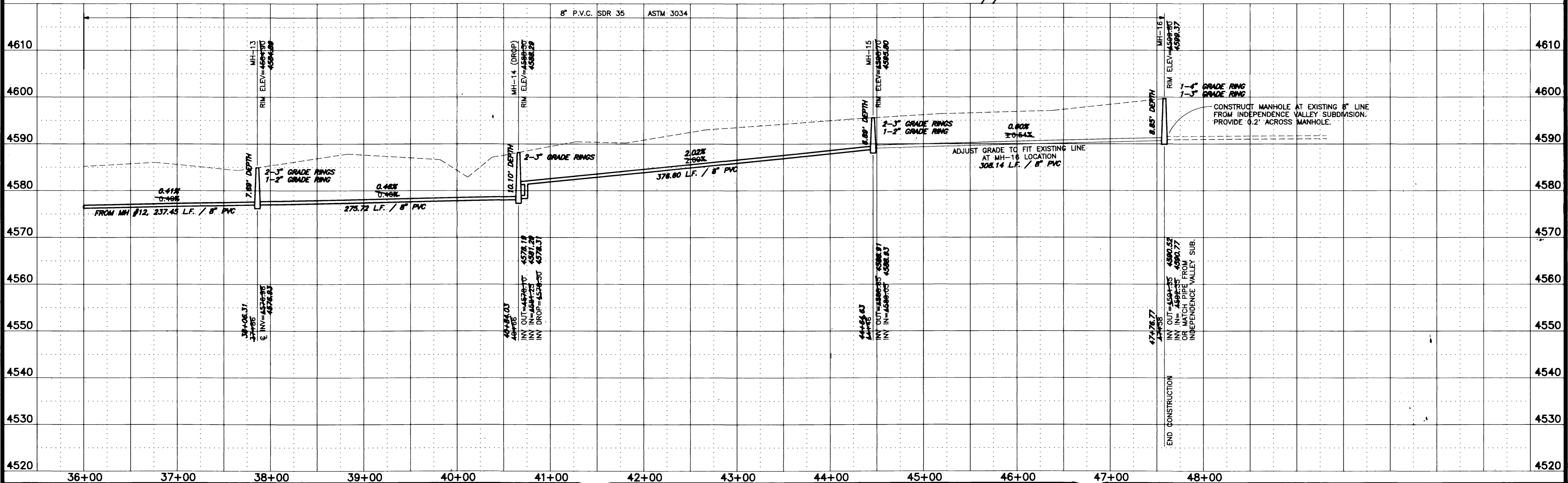
2697-353-00-417
 JAMES WEST
 759 HORIZON DRIVE
 GRAND JUNCTION, CO 81506



CONSTRUCTION NOTES:

- ① LAY PIPE THROUGH MH-13
- ② CONSTRUCT MANHOLE AT JUNCTION OF NEW EXTENSION AND LINE FROM INDEPENDENCE VALLEY SUBDIVISION.
- ③ CONSTRUCTION EASEMENT LIES 25' ON BOTH SIDES OF SEWER CENTER LINE.

AREA OF REVEGETATION (THIS SHEET) 6,222 S.Y.
 AREA OF MULCH (THIS SHEET) 6,222 S.Y.



REVISION Δ AS-BUILT, C.A.K. 8/10/93 REVISION Δ REVISION Δ REVISION Δ	DRAWN BY C.A.K. DATE 9/16/92 CHECKED BY T.A.B. DATE 9/16/92 APPROVED BY B.C. DATE 9/16/92 FIELD BOOK NO. PAGE	SCALE PLAN HORIZ. 1"=50' PROFILE HORIZ. 1"=50' VERT. 1"=10'	DEPARTMENT OF PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION CITY OF GRAND JUNCTION, COLORADO	INDEPENDENCE VALLEY SEWER LINE EXTENSION Plan & Profile	SHEET NO. 7 OF 8 FILE NO. 99213-04.DWG
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