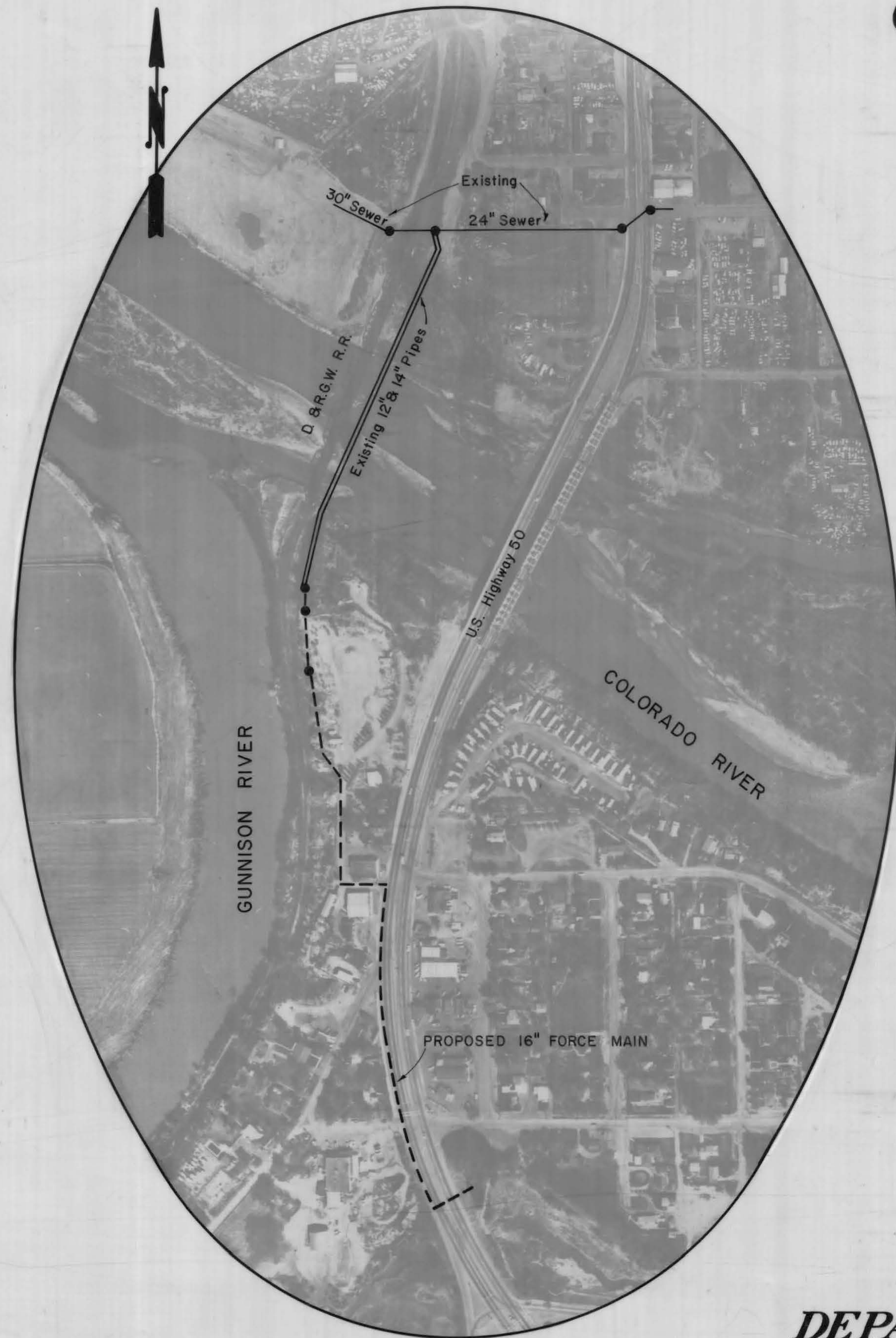


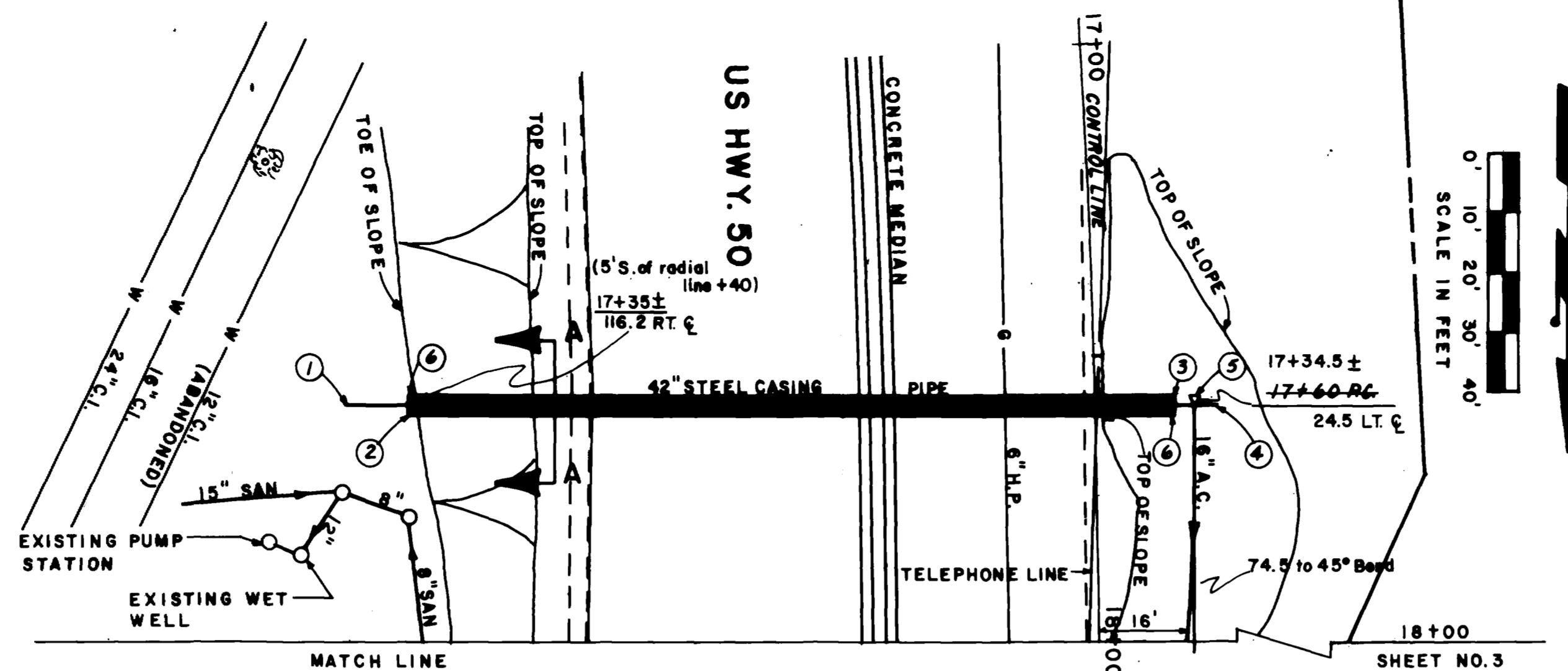
ORCHARD MESA FORCE MAIN SEWER



1. Cover Sheet
- 2-6. Construction Plan & Profile
7. Standard Sanitary Sewer Details - S.S. 1
8. Standard Water Line Details - W. 1
9. { Barricades, Drums, & Vertical Panel
Channelizing Devices - C.D.O.H. Std. S614-52A
- 10-13. { Traffic Signing for Highway Construction -
C.D.O.H. Std. S614-39A

**CITY OF
GRAND JUNCTION
DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING DIVISION**

AS CONSTRUCTED



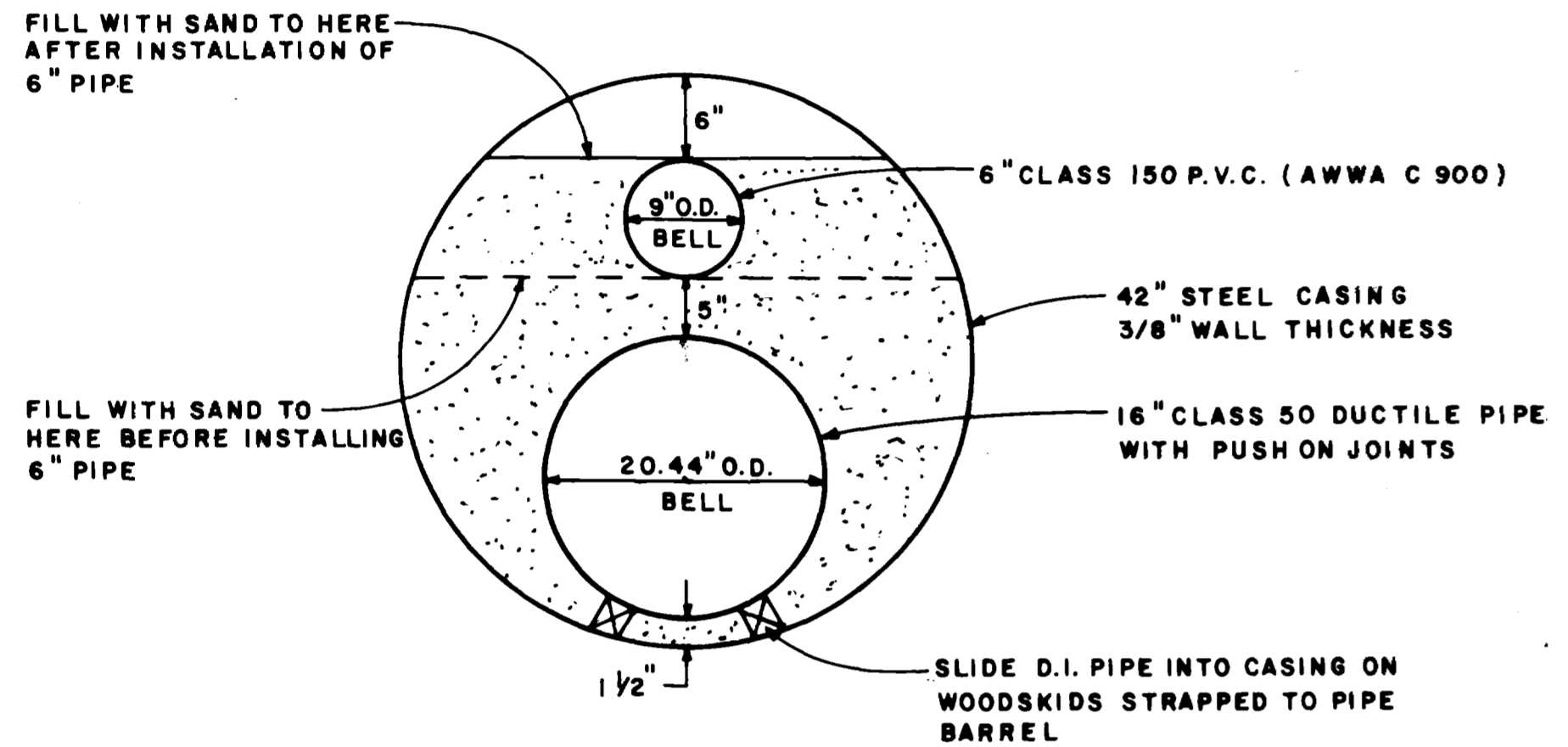
NOTES

- 17+35, 121.35 RT. $17+60, -126$ RT. Begin 16" D.I. and 6" PVC pipes through 42" Steel Casing Pipe. Close ends of pipes with removable plugs.
- 17+35, 116.2 RT. End of 42" Steel Casing Pipe.
- 17+34.5, 17+60, -13.5 Lt. End of 42" Steel Casing Pipe.
- 17+60, -20 Lt. End 6" PVC Pipe. Close end of pipe with removable plug.
- 17+34.5, 24.5 LT. Install 16" 90° bend and concrete thrust block. End 16" D.I. Pipe and begin 16" A.C. Pipe north as shown.
- Close end of 42" Casing Pipe with sand bags after pipe is filled with sand.

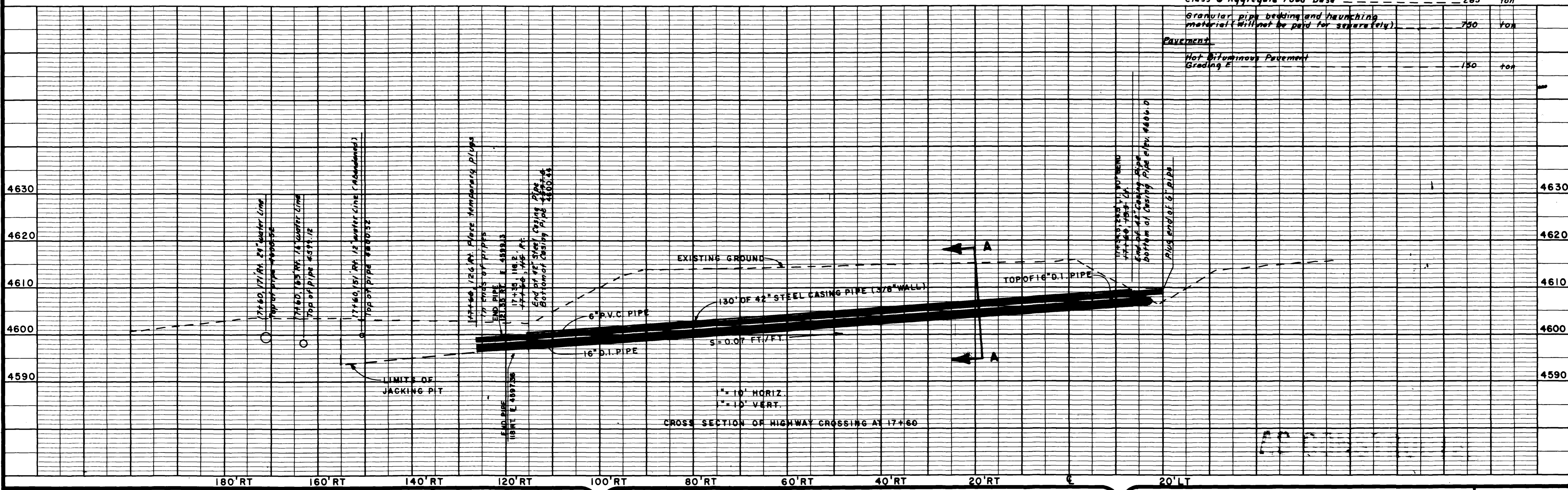
MATERIALS LIST

QUANTITY REQUIRED

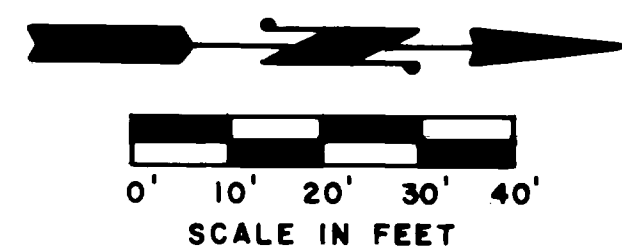
Pipe	Quantity	Unit
16" dia. Class 150 asbestos cement pressure pipe $\frac{3}{8}$ " wall;	1938	L.F.
42" dia. Steel Casing Pipe, $\frac{3}{8}$ " wall;	130	L.F.
16" dia. Class 50 Ductile Iron Pipe cement lined, pushon joints	144	L.F.
6" dia. Class 150 P.V.C. pipe (AWWA C 900 thickness)	150	L.F.
Fittings (Will not be paid for separately)		
16" dia., 90° bend cast iron, push on joints for A.C. pipe; AWWA C110	3	each
16" dia. 22½° bend cast iron, push on joints for A.C. pipe; AWWA C110	2	each
Manhole		
4' dia. concrete manhole with standard 24" C.I. ring & cover	2	each
Aggregate		
Granular stabilization material	200	ton
Class 6 Aggregate road base	285	ton
Granular pipe bedding and haunching material (Will not be paid for separately)	750	ton
Pavement		
Hot Bituminous Pavement Grading E	150	ton



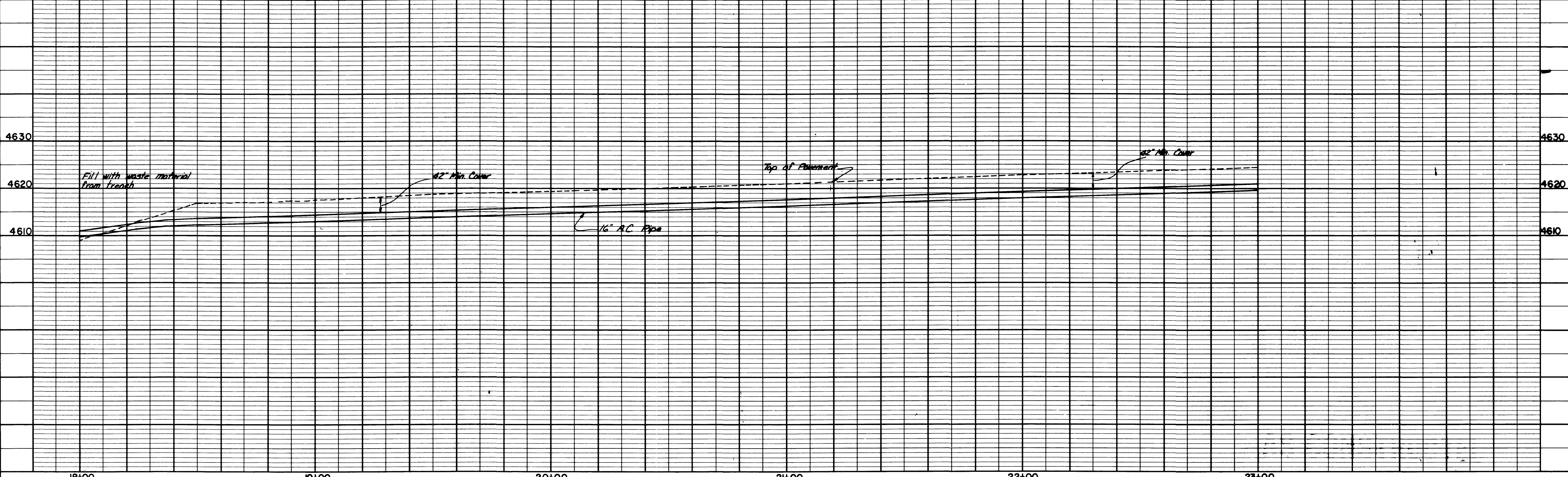
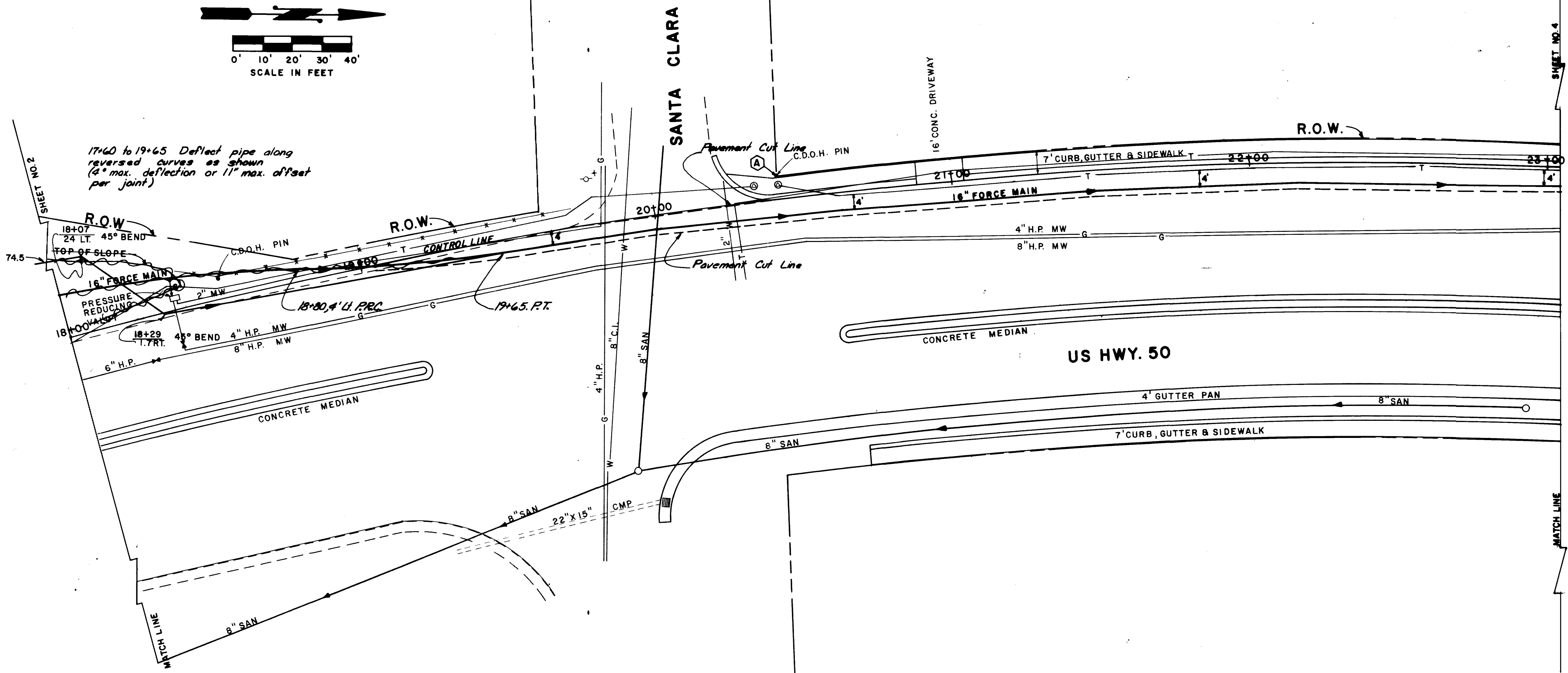
SECTION A-A



REVISION Δ REVISION Δ REVISION Δ REVISION Δ	DESCRIPTION DATE	DRAWN BY TLO CHECKED BY TAB APPROVED BY JDM FIELD BOOK NO. 1111	DATE 4-10-81 DATE 4-10-81 DATE 4-10-81 PAGE 108-131	SCALE PLAN: HORIZ. 1"=20' PROFILE: HORIZ. 1"=10', VERT. 1"=10'	DEPARTMENT OF PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION CITY OF GRAND JUNCTION, COLORADO	ORCHARD MESA FORCE MAIN SEWER HIGHWAY CROSSING DETAIL CONSTRUCTION PLAN & PROFILE	SHEET NO. 2 OF FILE NO.
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BENCH MARK:
 (A) T.R.M. STATE HWY. ROW, BCMC
 BOW, NW COR. SANTA CLARA &
 HWY 50 ELEV. 4620.91



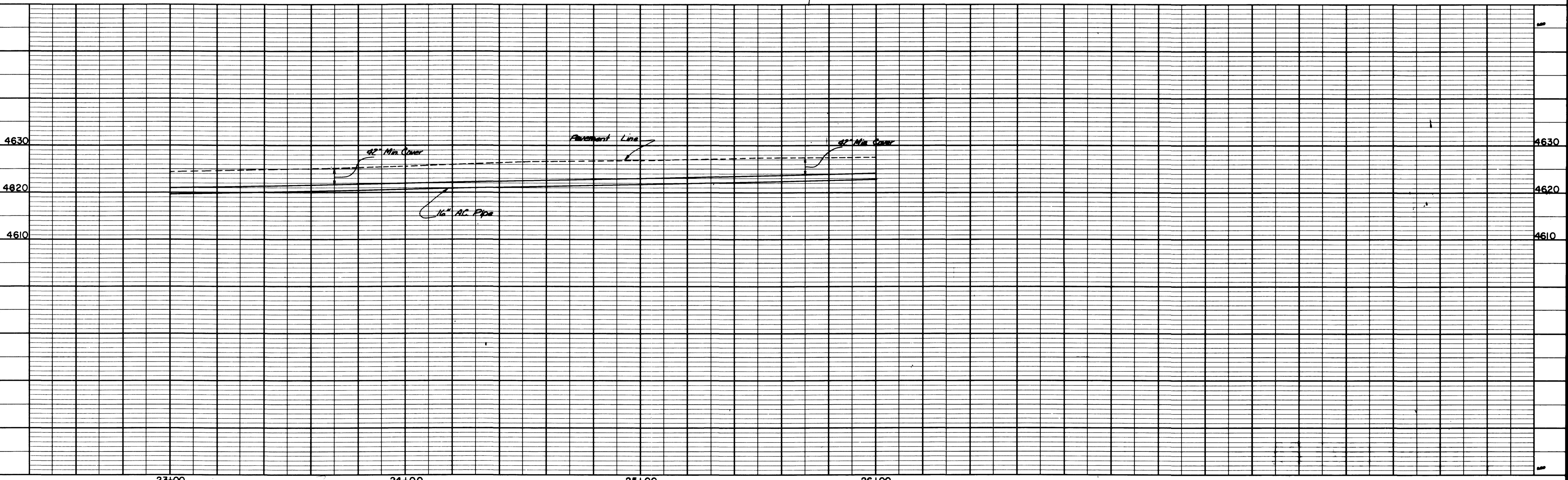
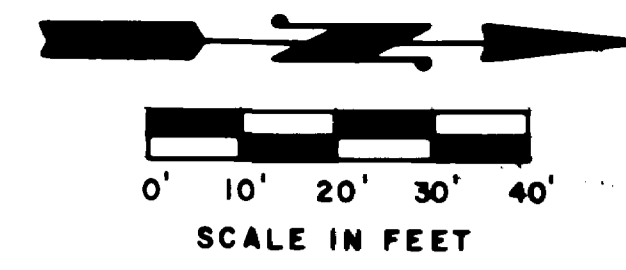
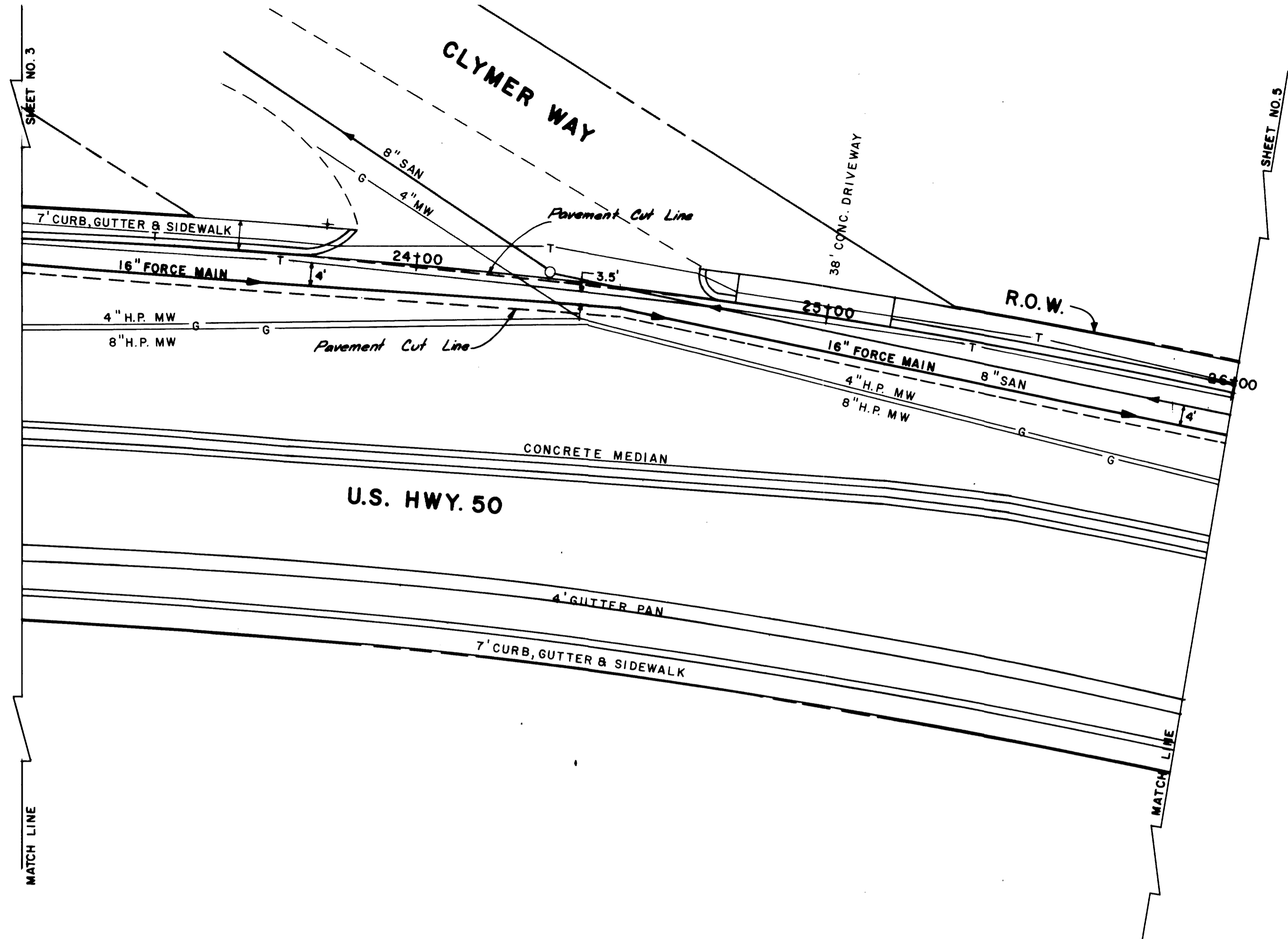
REVISION Δ	DESCRIPTION	DATE	DRAWN BY TLG	DATE 4-3-81
REVISION Δ			CHECKED BY TAB	DATE 4-9-81
REVISION Δ			APPROVED BY JDM	DATE 4-10-81
REVISION Δ			FIELD BOOK NO. LL II	PAGE 108-131

SCALE
 PLAN HORIZ. 1" = 20'
 PROFILE HORIZ. 1" = 20'
 VERT. 1" = 10'

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

ORCHARD MESA FORCE MAIN SEWER
 CONSTRUCTION PLAN & PROFILE

SHEET NO. 3
 OF _____
 FILE NO. _____

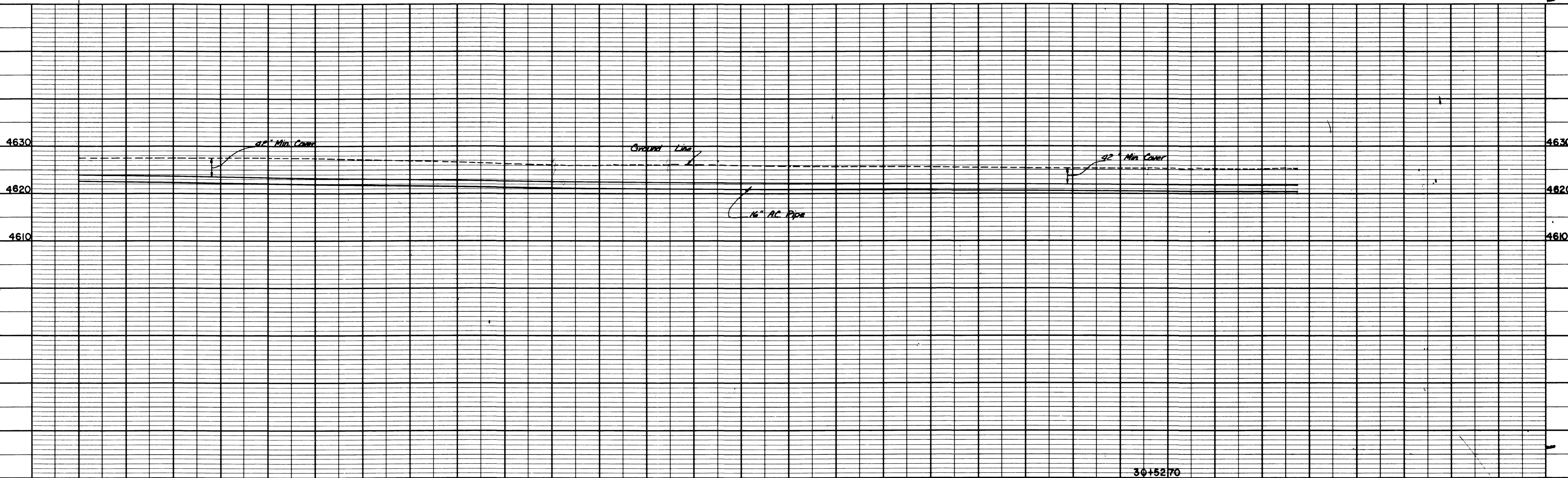
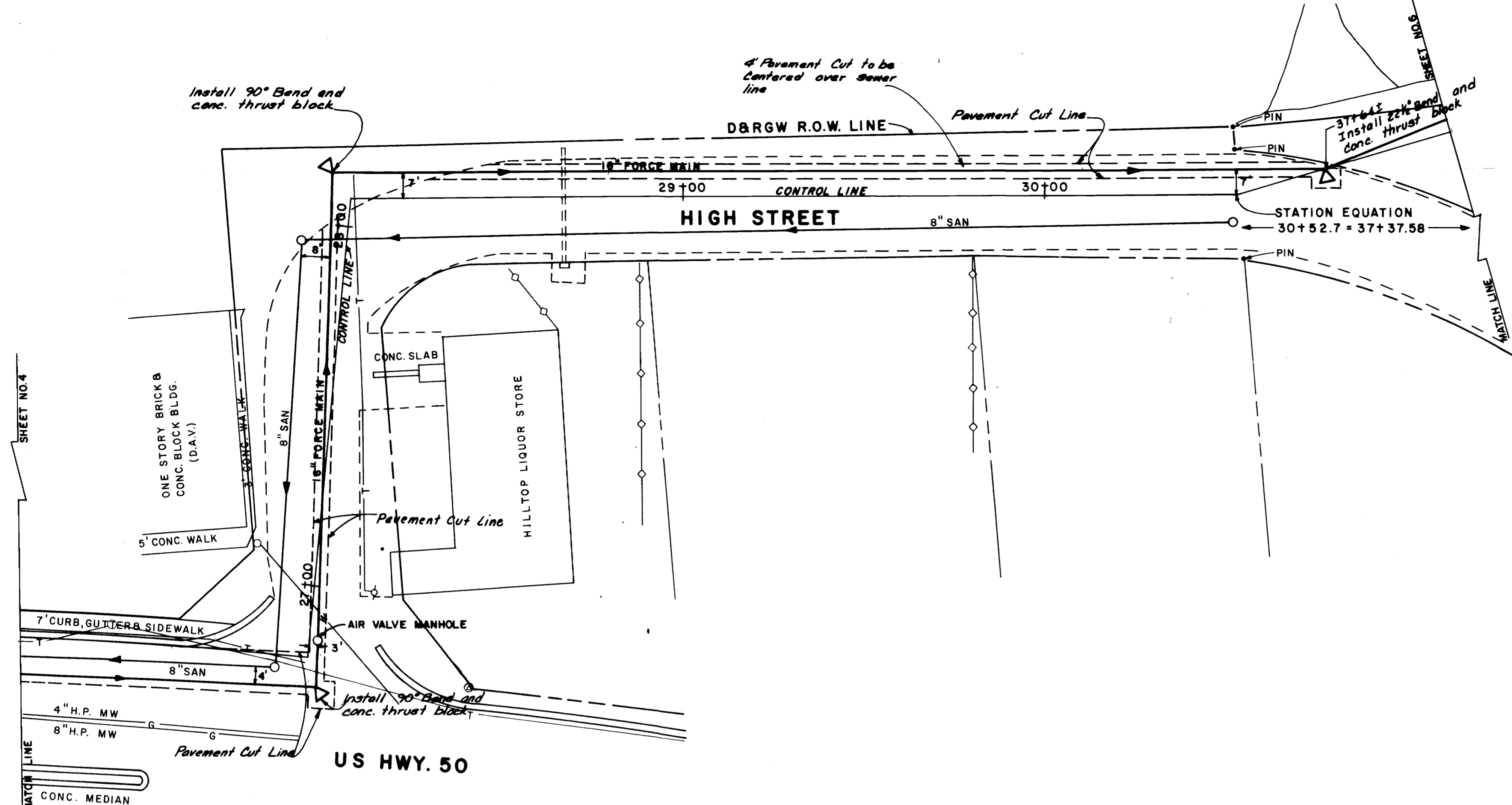
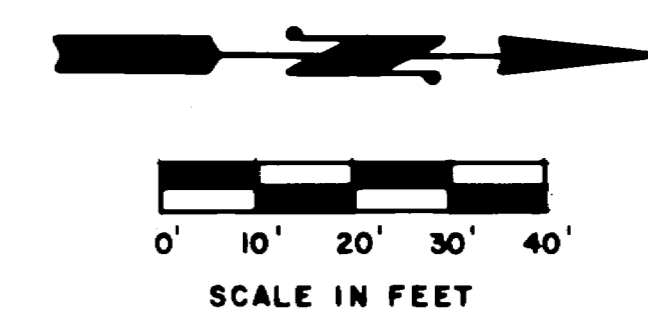


DESCRIPTION	DATE	DRAWN BY T.L.G.	DATE 4-3-81	SCALE
REVISION A		CHECKED BY TAB	DATE 4-9-81	PLAN 1"=20'
REVISION B		APPROVED BY J.D.N.	DATE 4-10-81	PROFILE 1"=20'
REVISION C		FIELD BOOK NO. L II	PAGE 108-131	VERT. 1"=10'

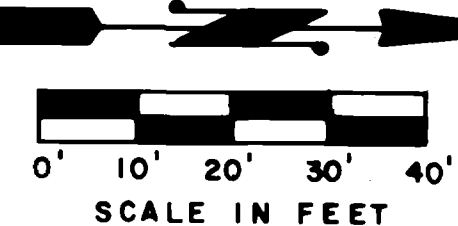
DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING DIVISION
CITY OF GRAND JUNCTION, COLORADO

ORCHARD MESA FORCE MAIN SEWER
CONSTRUCTION PLAN & PROFILE

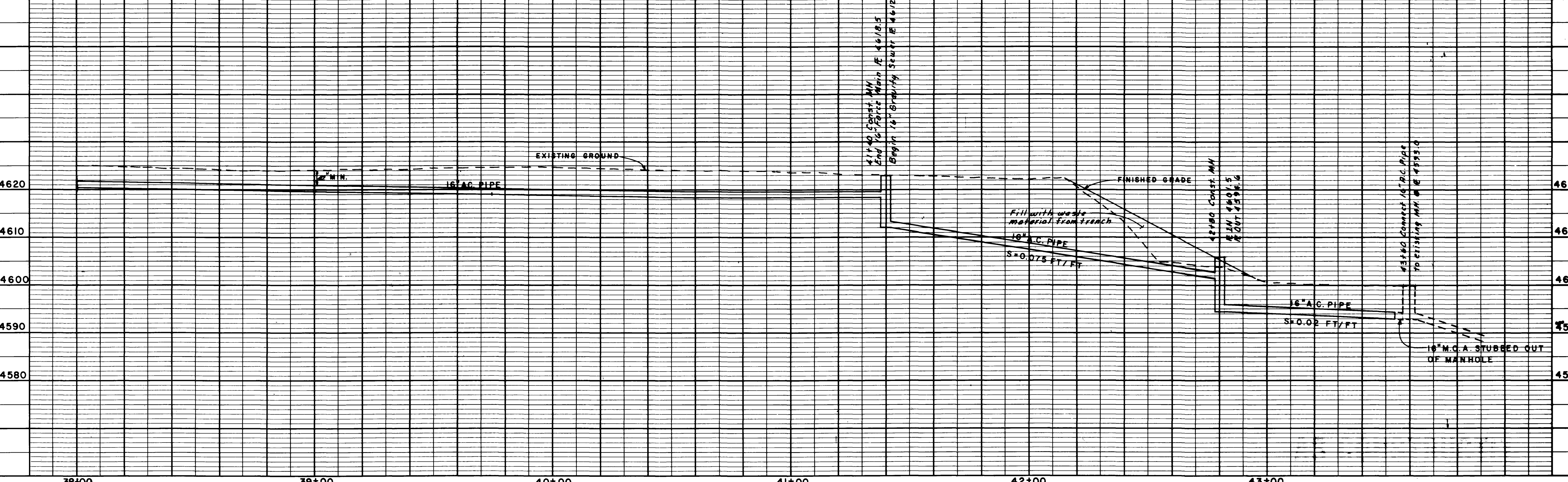
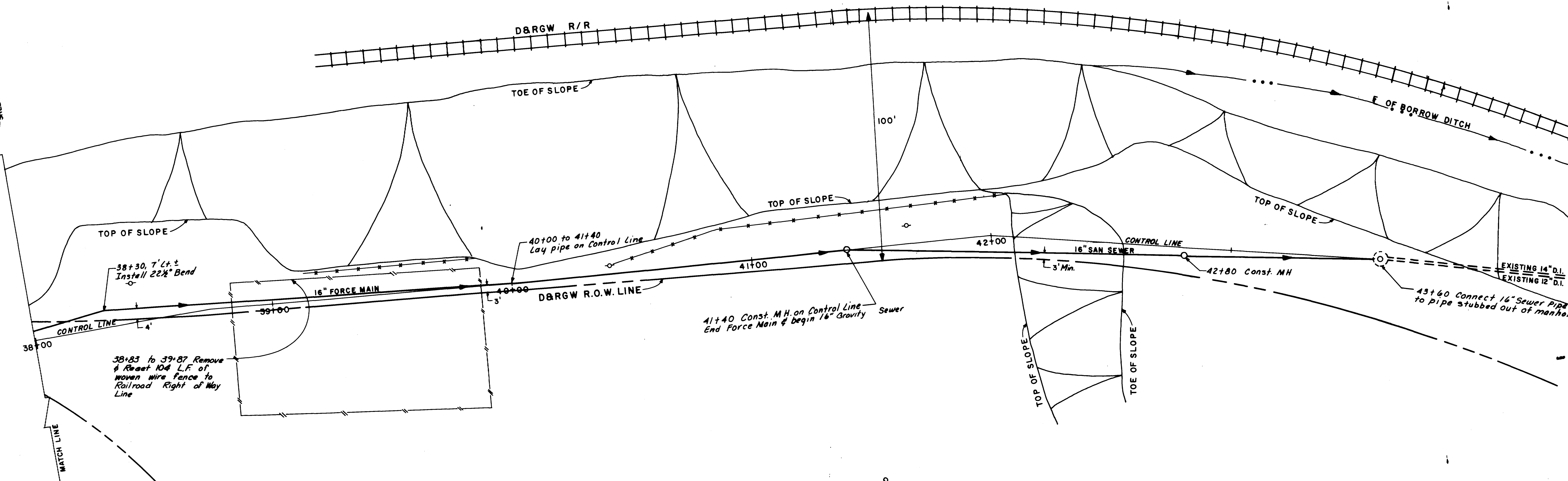
SHEET NO. 4
 OF _____
 FILE NO. _____



REVISION	DATE	DRAWN BY T.L.G.	DATE 4-3-81	SCALE PLAN: HORIZ. 1"=20' PROFILE: HORIZ. 1"=20' VERT. 1"=10'	DEPARTMENT OF PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION CITY OF GRAND JUNCTION, COLORADO	ORCHARD MESA FORCE MAIN SEWER CONSTRUCTION PLAN & PROFILE	SHEET NO. 5
REVISION A		CHECKED BY TAB	DATE 4-9-81				OF
REVISION B		APPROVED BY JDN	DATE 4-10-81				
REVISION C		FIELD BOOK NO. LL II	PAGE 108-131				



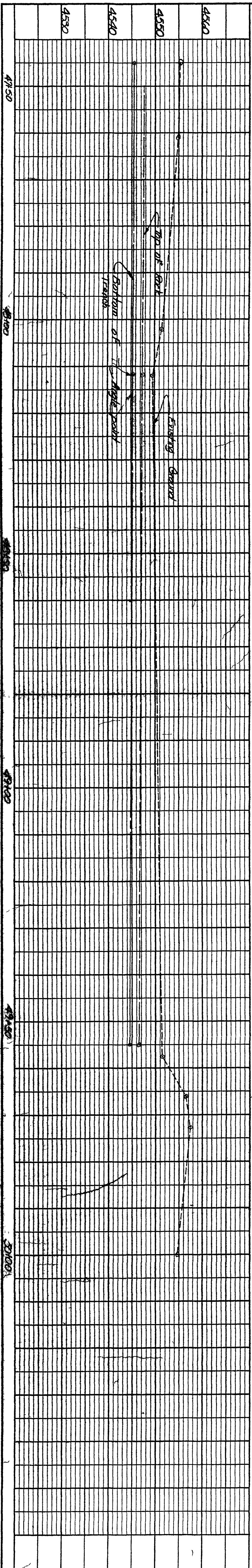
SHEET NO. 5



REVISION A PIPE GRADE 41+40 TO 43+00 (AD# 1) - 4-27-81	DRAWN BY T.L.G. DATE 4-3-81	SCALE PLAN PROFILE
REVISION B	CHECKED BY TAB DATE 4-9-81	HORIZ. 1"=20' HORIZ. 1"=20'
REVISION C	APPROVED BY JDN DATE 4-10-81	VERT. 1"=10'
REVISION D	FIELD BOOK NO. LL II PAGE 108-131	

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

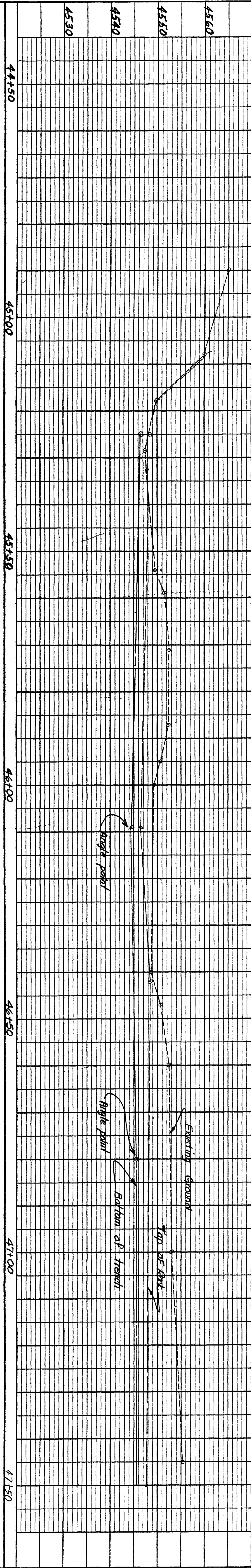
ORCHARD MESA FORCE MAIN SEWER
CONSTRUCTION PLAN & PROFILE
SHEET NO. 6 A
OF _____
FILE NO. _____



45+12 Top Rock 4547 4
Bottom Trench 4545 4

ROCK EXCAVATION AND CONCRETE ENCASEMENT
IN RIVER BOTTOM
FROM 45+15 TO 49+60
CHANGE ORDER N^o 1

49+55 End Conc Encasement
(Change Order N^o 1)
Top of Rock 4546 6
Bottom of Trench 4544 6



45+15
Begin Rock Excavation
& Conc Encasement (Change Order N^o 1)

45+25 Top Rock 4548 8

46+09 Top of Rock 4546 5
Bottom of Trench 4544 3

46+42 Top Rock 4548 2

46+80 Bottom of Trench 4545 4