

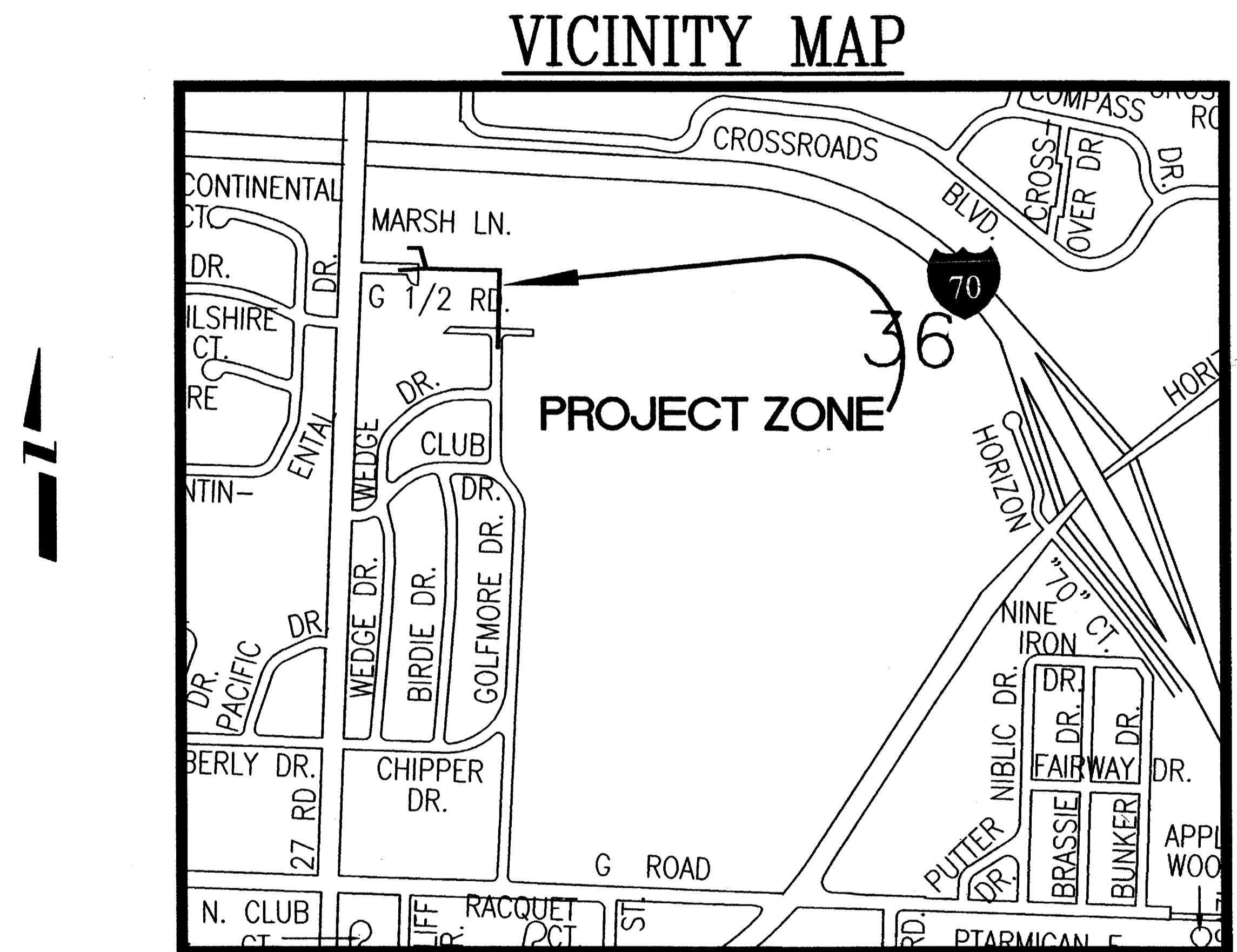
27 ROAD SEWER IMPROVEMENT DISTRICT

SEPTEMBER 1999

1. Cover Sheet
2. Drafting Standards & Abbreviations
3. Summary of Approximate Quantities
- 4-6. Plan and Profile Sheets
(See Project Specifications, Appendix "B",
for Standard Sanitary Sewer Details)

AS CONSTRUCTED

AS CONSTRUCTED INFORMATION WAS PRODUCED FROM RECORDS FURNISHED
BY W.H. LIZER AND ASSOCIATES.



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

27 ROAD SEWER IMPROVEMENT DISTRICT PROJECT

Bid Opening Sept. 21, 1999 at 2:00 p.m., Adimin. Conference Room, Grand Jct. City Hall

Contractor	
Unit Price	Extended Price

Item no.	Ref. no.	Contract Item	Quantity	Units	Unit Price	Extended Price
SANITARY SEWER ITEMS						
1	102 / 103	8" SDR-35 PVC w/ native backfill. Include clay cut-off wall	1,235	LF		
2	102 / 103	4" SDR-35 PVC Service Line w/ native backfill.	80	LF		
3	102 / 103	8"x4" Full body wye, and 4" 45 degree bend	9	EA		
4	102 / 103	Std 4' Dia. Sanitary sewer manhole. Complete in place.	5	EA		
5	102.00	Extra depth for 4' Dia. Std. Manhole	8	LF		
6	102.00	Tie to existing manhole	1	EA		
7	103.16	Import pit run backfill material. Includes excavation, haul, and disposal of unsuitable native material.	1,300	Ton		
8	103.15	Granular stabilization material	100	Ton		
9	202 / 401	3" Hot Bituminous Pavement (Grading C) where called out. Includes 6" ABC class 6.	180	SY		
10	304.00	Class 6 ABC (6" depth)	350	SY		
11	608.00	Remove and Replace Concrete Driveway Section (6" residential, including 6" ABC class 6) saw cut as necessary.	12	SF		
12	207.00	Backfill top 18" of trench with good top soil.	320	LF		
13	212.00	Sod Replacement	5,900	SF		
14	620.00	Sanitary Facility	1	LS		
15	625.00	Construction Surveying including as-built plans	1	LS		
16	626.00	Mobilization	1	LS		
17	630.10	Traffic Control				
a		TCS	15	Day		
c		Traffic Control (complete in place)	15	Day		
d		Traffic Control Plan	1	LS		
18		Newsletter (approximately 35 per week)	3	WK		
19		Minor Contract Revisions	1	LS	\$5,000.00	\$5,000.00
TOTAL BID PRICE						

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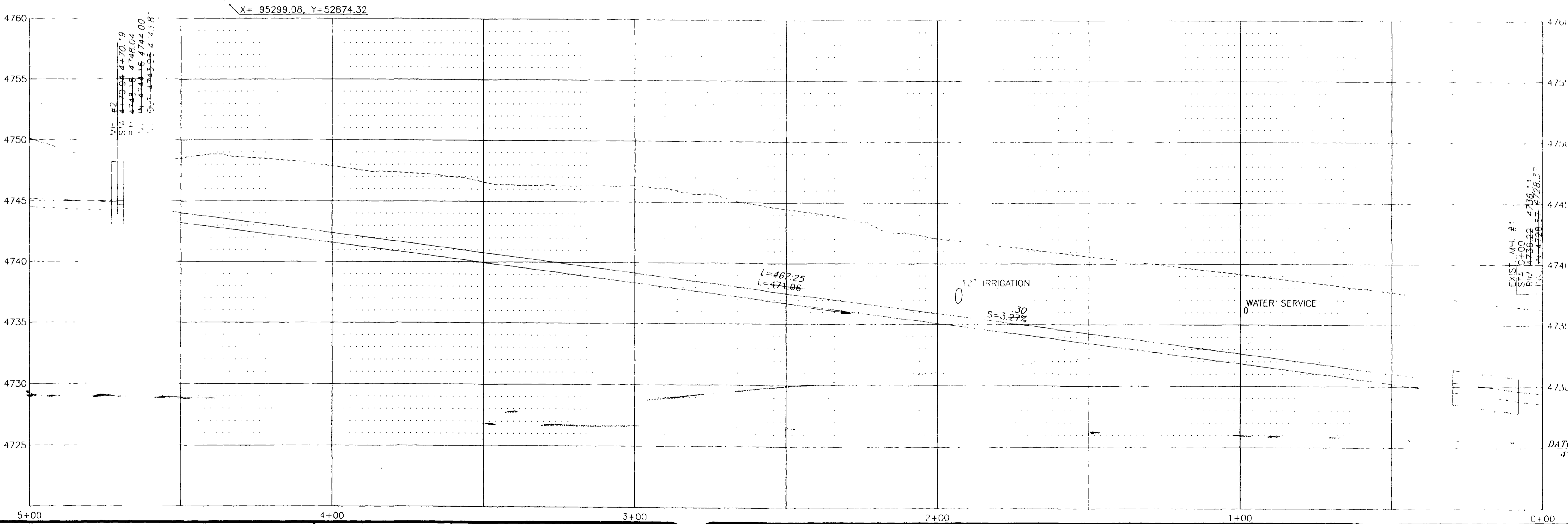
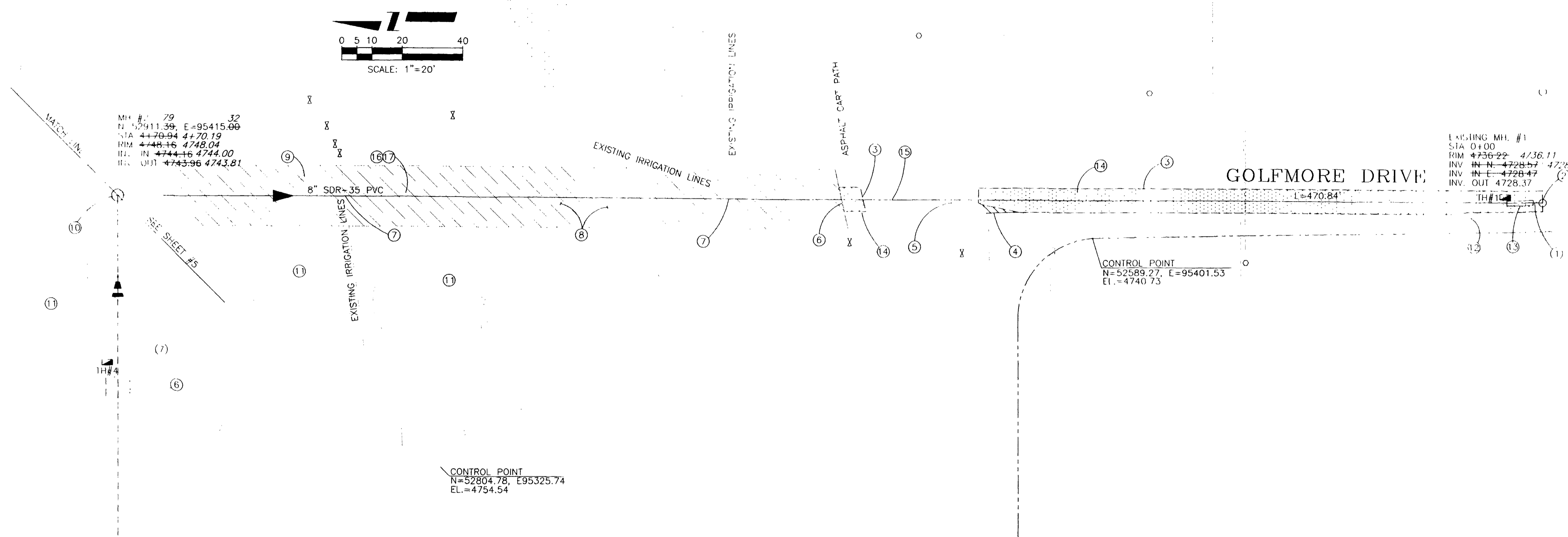
REVISION Δ _____	DATE _____	DRAWN BY _____	DATE _____	<p align="center">SCALE</p> <p>PLAN _____ PROFILE _____</p> <p>HORIZ. 1"=20' HORIZ. 1"=20'</p> <p>VERT. 1"=5'</p>
REVISION Δ _____	DATE _____	DESIGNED BY _____	DATE _____	
REVISION Δ _____	DATE _____	CHECKED BY _____	DATE _____	
REVISION Δ _____	DATE _____	APPROVED BY _____	DATE _____	

**DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING AND TECHNICAL SERVICES DIVISIONS
CITY OF GRAND JUNCTION, COLORADO**

**27 ROAD SEWER IMPROVEMENT DISTRICT
APPROXIMATE QUANTITIES**

CONSTRUCTION NOTES

- ① 102.90 TIE THE EXISTING 4" SERVICES FROM THE NORTH INTO THE NEW 8" PVC LINE USING FULL BODY WYE. LOCATION OF THE CONNECTION TO BE DETERMINED IN THE FIELD. (2 EACH)
- ② 102.11 TIE TO EXISTING MANHOLE. CORE EXISTING MANHOLE AND INSTALL PSX GASKET. (1 EACH)
- ③ 202.00 REMOVAL OF EXISTING ASPHALT MAT (173 S.Y.) INDICATED BY THE DOT PATTERN JACK HAMMER OR WHEEL CUT AS NECESSARY.
- ④ 202.00 SAWCUT AND REMOVE EXISTING CONCRETE DRIVE. (10 L.F.)
- 608.00 REPLACE CONCRETE DRIVE 4" THICKNESS (REMOVE AND REPLACE 12 S.F.)
- ⑤ 202.00 REMOVE AND RESET EXISTING WOOD PICKET FENCE AND STEEL POST/CABLE FENCE
- 210.00 RESET WOOD PICKET FENCE AND STEEL POST /CABLE FENCE. (REMOVE & RESET L.S.)
- ⑥ THE TRENCH CROSSING THE CART PATH WILL NEED TO BE BACK FILLED PROMPTLY AND A TEMPORARY ALL WEATHER SERVICE PROVIDED THAT WILL ALLOW USE BY GOLF CARTS PRIOR TO PAVING. (INCIDENTAL TO PAVEMENT REPLACEMENT COST) THE CITY WILL PROVIDE ASPHALT MILLINGS FOR THE TEMPORARY SURFACE.
- ⑦ THE LOCATION OF THE GOLF COURSE SPRINKLER SYSTEM IS APPROXIMATE. AN AS-BUILT PLAN OF THE SPRINKLER SYSTEM IS INCLUDED IN APPENDIX "C" OF THE PROJECT SPECIFICATIONS.
- ⑧ 212.00 THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE THE AMOUNT OF DISTURBANCE TO THE GOLF COURSE. SOD REPLACEMENT WITHIN THE GOLF COURSE WILL BE ACCOMPLISHED BY A LICENSED AND BONDED LANDSCAPE CONTRACTOR WITH PREVIOUS EXPERIENCE IN GOLF COURSE RESTORATION.
- ⑨ THE CONTRACTOR IS TO USE CARE WHILE WORKING NEAR EXISTING TREES. NO PRUNING OF TREES WILL BE ALLOWED.
- ⑩ 102.11 48" DIAMETER SANITARY MANHOLE. (1 EACH) WITH WATER TIGHT COVER.
- ⑪ NO CONSTRUCTION EQUIPMENT WILL BE ALLOWED ON THE EXISTING TEE BOXES.
- ⑫ EXISTING CURB AND GUTTER IS TO BE PROTECTED DURING CONSTRUCTION OF THE NEW SEWER LINES.
- ⑬ 102.11 CLAY CUTOFF WALL SHALL BE PLACED 10' UPSTREAM OF EACH MANHOLE. THE CUT OFF WALL SHALL EXTEND FROM 6" BELOW GRANULAR BACKFILL MATERIAL TO WITHIN 1" OF THE EXISTING SURFACE OF TRENCH. THE FULL WIDTH OF THE TRENCH. IF NATIVE MATERIAL IS NOT SUITABLE, THE CONTRACTOR SHALL IMPORT MATERIAL APPROVED BY THE BY THE PROJECT ENGINEER.
- ⑭ 304.00 AGGREGATE BASE COURSE (CLASS 6) 6" THICK
- 401.00 HOT BITUMINOUS PAVEMENT (GRADING C) 3" THICK.
- ⑮ 304.00 RESTORE EXISTING GRAVEL SURFACE WITH AGGREGATE BASE COURSE (CLASS 6) 6" THICK, +/- 13 S.Y.
- ⑯ 103.16 BACK FILL TRENCH WITH PITRUN MATERIAL IF NATIVE MATERIAL IS NOT SUITABLE FOR BACK FILL MH#1 TO MH#2.
- ⑰ 207.00 THE TOP 18" OF THE TRENCH WITHIN THE GRASSED AREA OF THE GOLF COURSE SHALL BE BACK FILLED WITH TOP SOIL MATERIAL (320 L. F.)



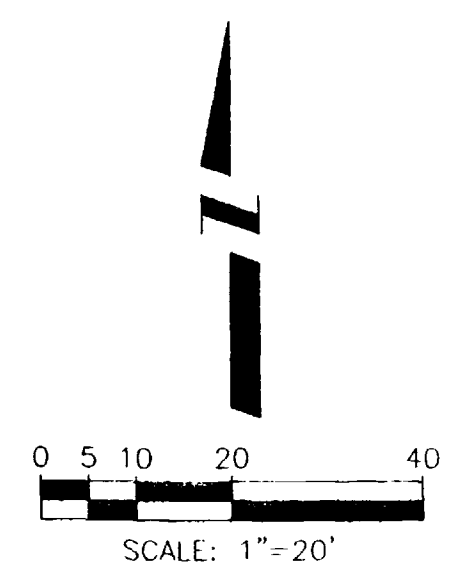
AS CONSTRUCTED

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
REVISION A			L. MARTIN	8/31/99	PLAN 1"=20'
REVISION B			S.B.G.	8/31/99	PROFILE 1"=20'
REVISION C			S.B.G.	8/31/99	HORIZ. 1"=20'
REVISION D					VERT. 1"=5'

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ENGINEERING AND TECHNICAL SERVICES DIVISIONS
CITY OF GRAND JUNCTION, COLORADO

27 ROAD SEWER IMPROVEMENT DISTRICT
Plan & Profile

2701-362-00-012
754 27 RD
HENERY J. PARUSZEWSKI
1663 14 1/2RD.
LOMA, CO.
81524-9764

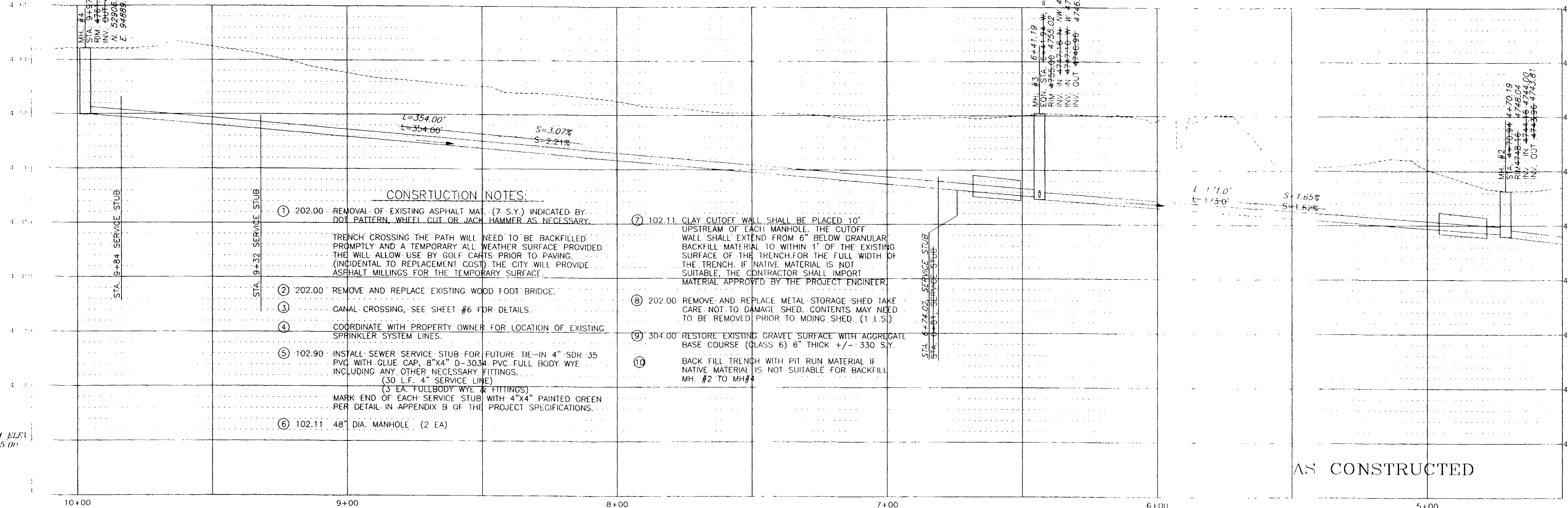
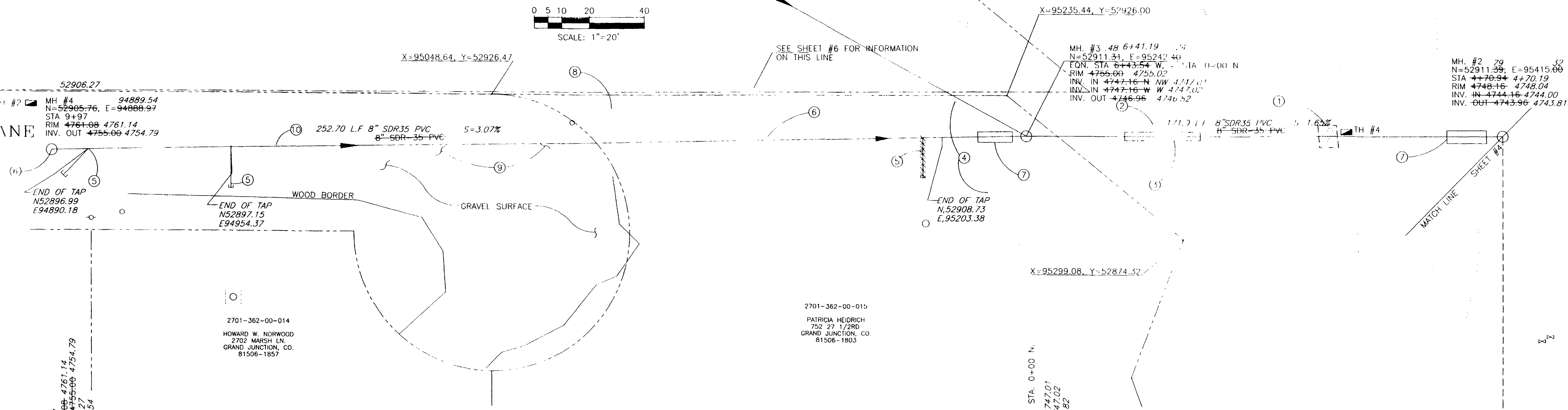


MARSH LANE

2701-362-00-013
752 27RD.
HOWARD W. NORWOOD
2702 MARSH LN
GRAND JUNCTION, CO
81506-1857

2701-362-00-014
HOWARD W. NORWOOD
2702 MARSH LN.
GRAND JUNCTION, CO.
81506-1857

2701-362-00-015
PATRICIA HEIDRICH
752 27 1/2RD
GRAND JUNCTION, CO
81506-1803



- CONSTRUCTION NOTES:**
- ① 202.00 REMOVAL OF EXISTING ASPHALT MAT. (7 S.Y.) INDICATED BY DOT PATTERN, WHEEL CUT OR JACK HAMMER AS NECESSARY.
 - ② 202.00 REMOVE AND REPLACE EXISTING WOOD FOOT BRIDGE.
 - ③ CANAL CROSSING, SEE SHEET #6 FOR DETAILS.
 - ④ COORDINATE WITH PROPERTY OWNER FOR LOCATION OF EXISTING SPRINKLER SYSTEM LINES.
 - ⑤ 102.90 INSTALL SEWER SERVICE STUB FOR FUTURE TIE-IN 4" SDR 35 PVC WITH GLUE CAP, 8"x4" D-3034 PVC FULL BODY WYE INCLUDING ANY OTHER NECESSARY FITTINGS. (30 L.F. 4" SERVICE LINE)
 - ⑥ 102.11 48" DIA. MANHOLE (2 EA)
 - ⑦ 102.11 CLAY CUTOFF WALL SHALL BE PLACED 10' UPSTREAM OF EACH MANHOLE. THE CUTOFF WALL SHALL EXTEND FROM 6" BELOW GRANULAR BACKFILL MATERIAL TO WITHIN 1' OF THE EXISTING SURFACE OF THE TRENCH FOR THE FULL WIDTH OF THE TRENCH. IF NATIVE MATERIAL IS NOT SUITABLE, THE CONTRACTOR SHALL IMPORT MATERIAL APPROVED BY THE PROJECT ENGINEER.
 - ⑧ 202.00 REMOVE AND REPLACE METAL STORAGE SHED TAKE CARE NOT TO DAMAGE SHED. CONTENTS MAY NEED TO BE REMOVED PRIOR TO MOING SHED. (1 I.S.)
 - ⑨ 304.00 RESTORE EXISTING GRAVEL SURFACE WITH AGGREGATE BASE COURSE (CLASS 6) 6" THICK +/- 330 S.Y.
 - ⑩ BACK FILL TRENCH WITH PIT RUN MATERIAL IF NATIVE MATERIAL IS NOT SUITABLE FOR BACKFILL MH. #2 TO MH#4

DATUM ELEV.
4725.00'

AS CONSTRUCTED

REVISION	DATE	DESCRIPTION

DRAWN BY	L. MARTIN	DATE	8/31/99
DESIGNED BY	S.B.G.	DATE	8/31/99
CHECKED BY	S.B.G.	DATE	8/31/99
APPROVED BY		DATE	

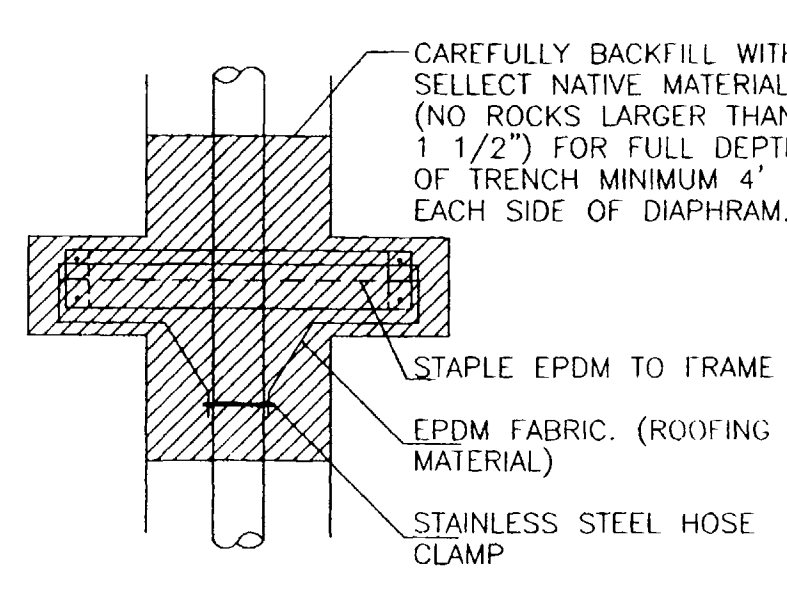
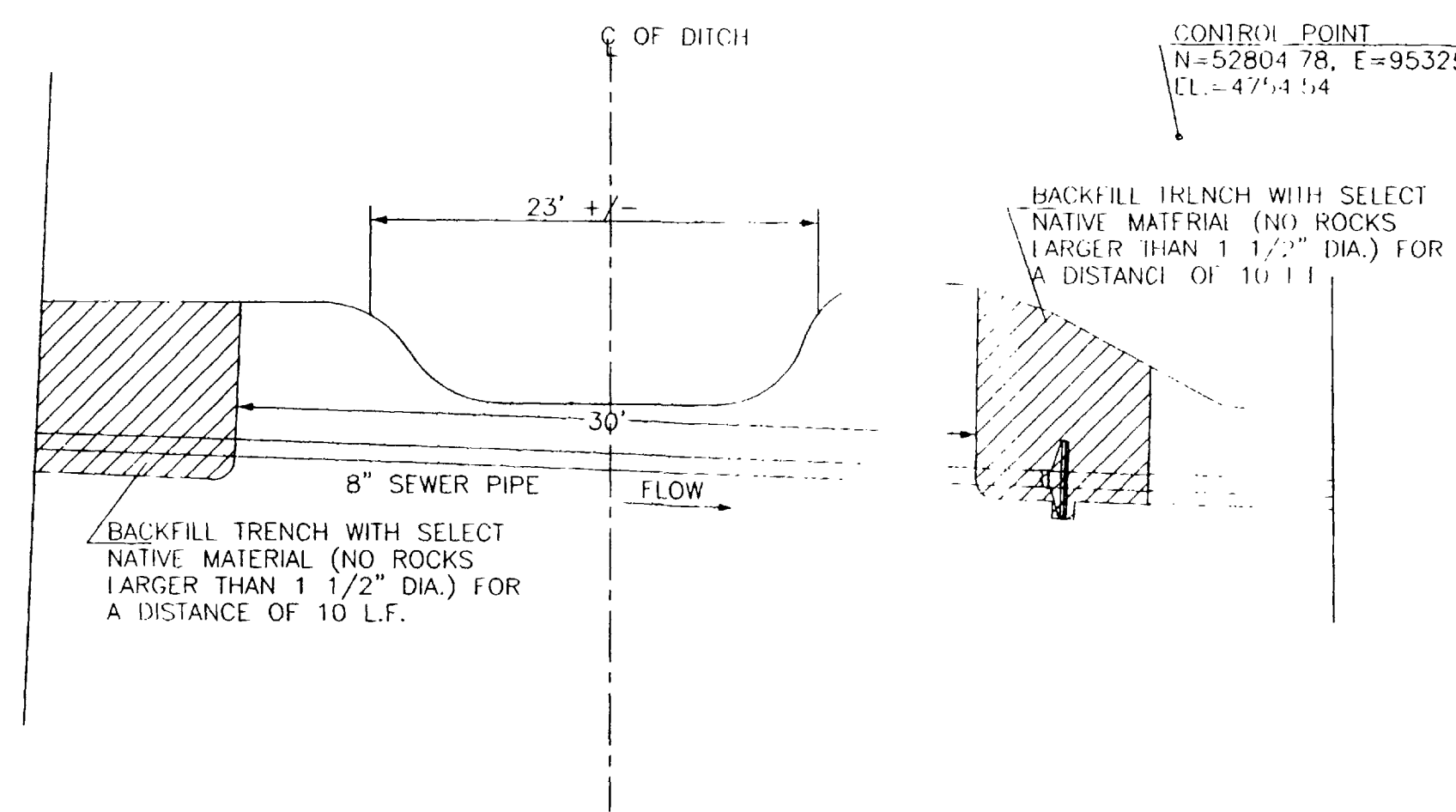
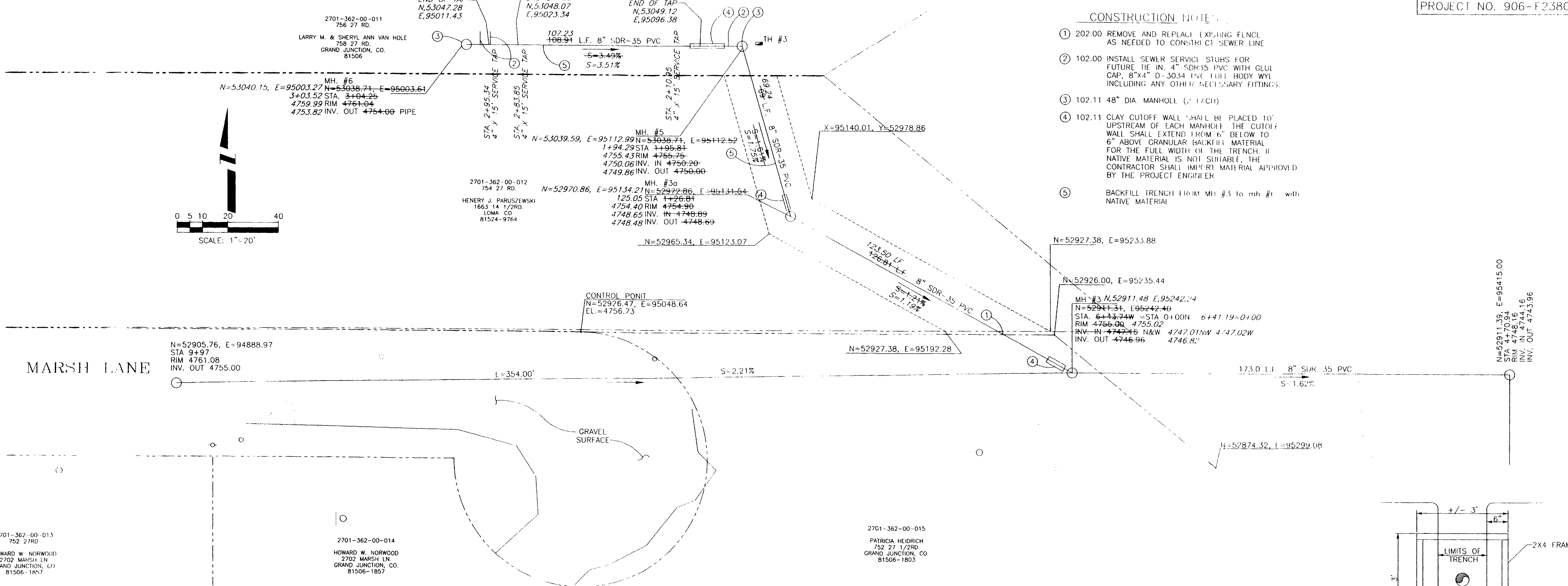
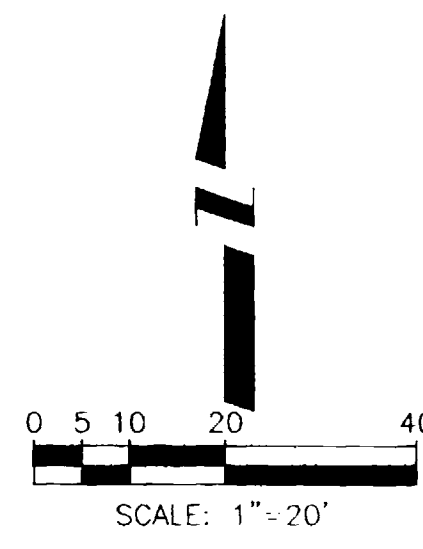
SCALE	
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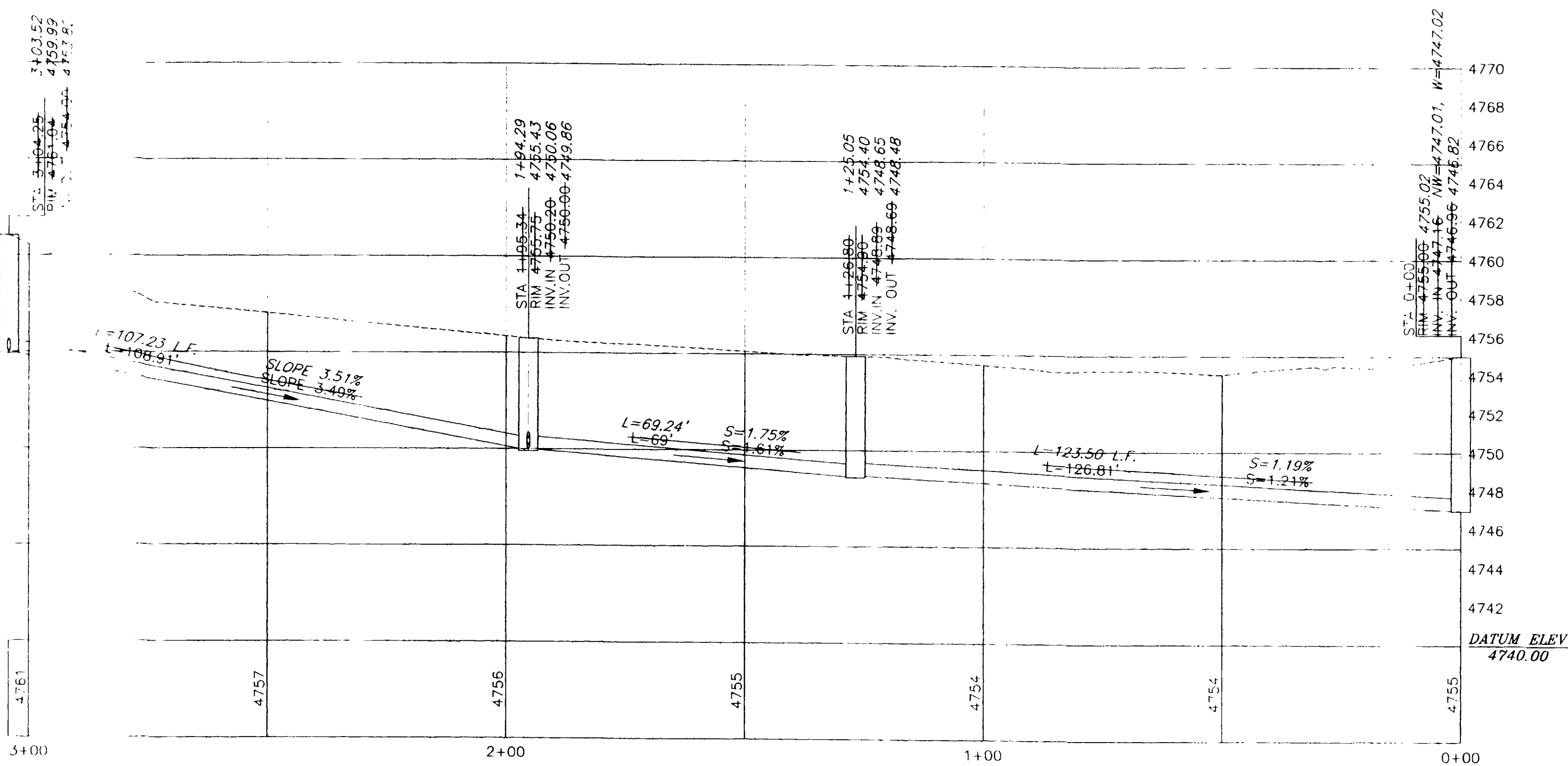
27 ROAD SEWER IMPROVEMENT DISTRICT
Plan & Profile

CONSTRUCTION NOTES

- ① 202.00 REMOVE AND REPLACE EXISTING FENCL AS NEEDED TO CONSTRUCT SEWER LINE
- ② 102.00 INSTALL SEWER SERVICE STUBS FOR FUTURE TIE IN. 4" SDR35 PVC WITH GULF CAP. 8"x4" D-3034 PVC LULL BODY W/LL INCLUDING ANY OTHER NECESSARY FITTINGS.
- ③ 102.11 48" DIA. MANHOLE (2' DIA)
- ④ 102.11 CLAY CUTOFF WALL SHALL BE PLACED 10' UPSTREAM OF EACH MANHOLE. THE CUTOFF WALL SHALL EXTEND FROM 6" BELOW TO 6" ABOVE GRANULAR BACKFILL MATERIAL FOR THE FULL WIDTH OF THE TRENCH. IF NATIVE MATERIAL IS NOT SUITABLE, THE CONTRACTOR SHALL IMPROVE MATERIAL APPROVED BY THE PROJECT ENGINEER.
- ⑤ BACKFILL TRENCH FROM MH #3 to mh #4 with NATIVE MATERIAL



CANAL CROSSING DETAILS



REVISION	DESCRIPTION	DATE
1	ALIGNMENT CHANGE	2/15/2000
2	AS BUILT FROM NOTES FROM WH LIZER	5/18/2K

DRAWN BY	L. MARTIN	DATE	8/31/99
DESIGNED BY	S.B.G.	DATE	8/31/99
CHECKED BY	S.B.G.	DATE	8/31/99
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