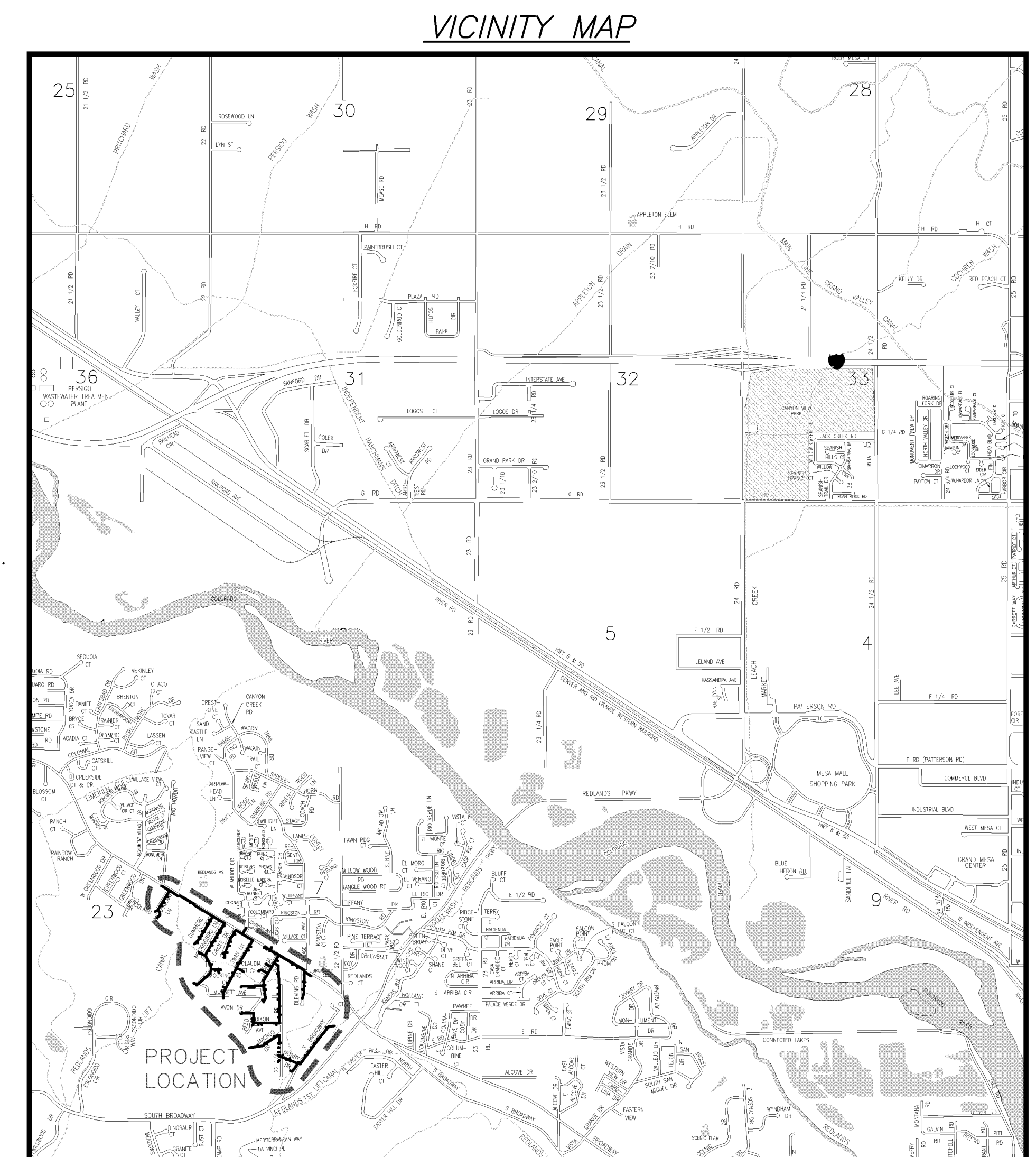


REED MESA SANITARY SEWER IMPROVEMENT DISTRICT

JUNE 10, 2005

As Built Records - January 2007

- 1 ————— Cover Sheet
- 2 ————— Standard Abbreviations, Legend, and Symbols
- 3 ————— Summary of Approximate Quantities
- 4 ————— Project Keymap
- 5 ————— Project Control Map and Storm Culvert Replacement Table
- 6-51 ————— Sanitary Sewer Plan and Profiles
(See Project Keymap for Sheet Layout)
- 52 ————— Project Details
- 53 ————— Project Storm Water Management Plan



UTILITIES AND AGENCIES								
AGENCY	NAME	POSITION	ROLE	MAILING ADDRESS	STREET ADDRESS	CITY, STATE	VOICE-WK	FAX
GRAND JUNCTION, CITY OF	DAVID DONOHUE	PROJECT ENGINEER	PROJECT ENGINEER	250 N. 5th STREET	250 N. 5th STREET	GRAND JCT., CO 81501	(970) 244-1558	(970) 256-4022
GRAND JUNCTION, CITY OF	BRET GUILLORY	UTILITY ENGINEER	SANITARY SEWER	250 N. 5th STREET	250 N. 5th STREET	GRAND JCT., CO 81501	(970) 244-1590	(970) 256-4022
REDLANDS WATER & POWER CO.	GREG STRONG		IRRIGATION	2216 S. BROADWAY	2216 S. BROADWAY	GRAND JCT., CO 81503	(970) 243-2173	
BRESNAN	GLENN VANCIL		CABLE TV	2502 FORESIGHT CIRCLE	2502 FORESIGHT CIRCLE	GRAND JCT., CO 81504	(970) 245-8750	(970) 245-6803
U.S. WEST/QWEST	DAN WISEMAN	ENGINEER	TELEPHONE	2524 BLICKMAN ROAD	2524 BLICKMAN ROAD	GRAND JCT., CO 81504	(970) 244-4311	(970) 240-4349
UTE WATER	DARYL MOORE	ENGINEER	WATER	PO BOX 460		GRAND JCT., CO 81502	(970) 242-7491	(970) 242-9189
XCEL	STEVE LOPEZ	PROJECT MANAGER	GAS, ELECTRIC	2538 BLICKMAN ROAD	2538 BLICKMAN ROAD	GRAND JCT., CO 81504	(970) 244-2698	(970) 244-2661
VINEYARDS IRRIGATION SYSTEMS	JOHN HARRISON	MANAGER	IRRIGATION	N/A	N/A	GRAND JCT., CO	(970) 434-7518 (970) 260-9147	(970) 242-9189
PRIVATE DOMESTIC WATER SYSTEMS	ROBERT FUESTON	OWNER	UNUSED POTABLE WATER SYSTEM	2228 MOWRY DRIVE	2228 MOWRY DRIVE	GRAND JCT., CO 81503	(970) 245-9371	N/A



*Public Works & Utilities
Engineering Division*

REVISION	DESCRIPTION	DATE	REVISED SHEETS
REVISION Δ	ADDENDUM #1	6/21/05	3, 6A, 10-11, 23-26, 43, 52
REVISION Δ	PRECONSTRUCTION	9/26/05	3, 6A-7, 9, 11, 14, 23-26, 28, 32, 35
REVISION Δ	PRECONSTRUCTION REV 3	9/15/05	11
REVISION Δ	WORK CHANGE REQUEST #1	11/12/05	6A, 10-11, 32, 34-35
REVISION Δ	REVISION #5 - SWAN LN DROP MH	12/16/05	23-24
REVISION Δ	REVISION #6 - FIELD ORDER #5	12/30/05	23-26
REVISION Δ	REVISION #7 - 2228 MOWRY SS CHANGE	1/11/06	AT-43 & ADD SHEET 47B
REVISION Δ	AS BUILT RECORDS	01-2007	

DRAWING STATUS:	
● ASBUILT	
DESIGNED BY: <i>David R. Donohue</i>	6/29/05
DAVID DONOHUE, PROJECT ENGINEER	DATE
REVIEWED BY: <i>Bret Guillory</i>	6/29/05
BRET GUILLORY, UTILITY ENGINEER	DATE
AUTHORIZED FOR CONSTRUCTION	
<i>Michael G. McDill</i>	6-29-05
MICHAEL G. MCDILL, CITY ENGINEER	DATE
ACCEPTED AS CONSTRUCTED	
DAVID DONOHUE, PROJECT ENGINEER	DATE

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ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
AC	ASBESTOS CEMENT
AP	ANGLE POINT
ASB	ANCHORED STRAW BALES
ASP	ALUMINIZED STEEL PIPE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BF	BUTTERFLY VALVE
BOW	BACK OF WALK
BCR	BEGIN CURB RETURN
BOT	BOTTOM
BSWMP	BETTER STORM WATER MANAGEMENT PRACTICES
CH	CHORD
CAP	CORRUGATED ALUMINUM PIPE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CI	CAST IRON
C.G.& SW	CURB, GUTTER & SIDEWALK
C	CENTER LINE
CL	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMB	COMBINATION (AS IN STORM SEWER AND SANITARY SEWER)
CONC	CONCRETE
CSM	CITY SURVEY MONUMENT
CSP	CORRUGATED STEEL PIPE
CU	COPPER
DI	DUCTILE IRON
DWY	DRIVEWAY
E	ELECTRIC
ECR	END CURB RETURN
EG	EDGE OF GUTTER
EL	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
FB	FULL BODY
FC	FACE OF CURB
FG	FINISHED GRADE
F	FLOW LINE
FL	FLANGE
FM	FORCE MAIN
FO	FIBER OPTICS
FS	FAR SIDE
FTG	FOOTING
G	GAS
GB	GRADE BREAK
GM	GAS METER
GV	GATE VALVE
HBP	HOT BITUMINOUS PAVEMENT
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
IRR	IRRIGATION
L	LENGTH OF ARC
LC	LONG CHORD
LF	LINEAR FEET
LL	LONG ARC
LS	SHORT ARC
LT	LEFT
MB	MAILBOX
MCSM	MESA COUNTY SURVEY MONUMENT
MH	MANHOLE
MJ	MECHANICAL JOINT
MW	MILL WRAP
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOP	NO ONE PERSON
NRCP	NON-REINFORCED CONCRETE PIPE
NS	NEAR SIDE
NTS	NOT TO SCALE
OHP	OVERHEAD POWER
OHT	OVERHEAD TELEPHONE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PE	POLYETHYLENE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PIP	PLASTIC IRRIGATION PIPE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PR	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RG	RESTRAINED GLANDS
RL	LONG RADIUS
ROW	RIGHT OF WAY
RP	RADIUS POINT
RR	RAIL ROAD
RS	SHORT RADIUS
BT	BIOFLO
SAN	SANITARY
SC	SHORT CHORD
SCD	STANDARD CONTRACT DOCUMENTS
SCH	SCHEDULE
SF	SILT FENCE
SL	SECTION LINE
SSRB	STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION
SSJU	STANDARD SPECIFICATIONS FOR CONSTRUCTION OF UNDERGROUND UTILITIES
STA	STATION
STL	STEEL
STM	STORM
T	TELEPHONE
TAN	LENGTH OF TANGENT
TC	TOP OF CURB
TH	TEST HOLE
TV	TELEVISION
(TYP)	TYPICAL
UBU	UNIDENTIFIED BURIED UTILITIES
UU	UNDERGROUND UTILITIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VPC	VERTICAL POINT OF CURVATURE
VPCC	VERTICAL POINT OF COMPOUND CURVATURE
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WATER
Δ	DELTA ANGLE

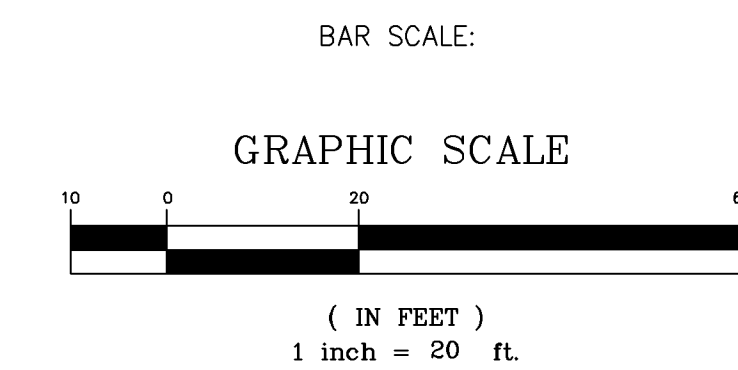
LEGEND

BSWMP DRAINAGE BASIN BOUNDARY	
BSWMP ANCHORED STRAW BALES	
BSWMP SILT FENCE	
BUILDING	
CONCRETE CURB AND GUTTER	
CONCRETE CURB, GUTTER, & SIDEWALK	
CONCRETE DITCH	
CONCRETE SIDEWALK	
CULVERT	
EARTH DITCH	
EDGE OF GRAVEL	
EDGE OF PAVEMENT	
FENCE (BARBED WIRE)	
FENCE (CHAIN LINK)	
FENCE (IRON)	
FENCE (PLASTIC)	
FENCE (WOOD)	
FENCE (WOVEN WIRE)	
GUARD RAIL	
HATCHING: INDICATES ASPHALT REMOVAL	
HATCHING: INDICATES CONCRETE REMOVAL	
HATCHING: INDICATES STAGING AREA	
LINE (CENTER OF IMPROVEMENTS)	
LINE (CITY LIMITS)	
LINE (CONTROL)	
LINE (EASEMENT)	
LINE (MONUMENT/SECTION)	
LINE (PROPERTY)	
LINE (RIGHT OF WAY)	
MATCH LINE	
PIPE (IRRIGATION)	
PIPE (SIPHON)	

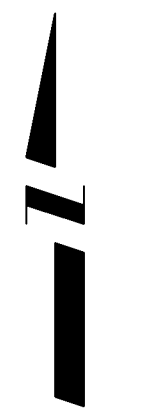
PROPOSED CONCRETE CURB AND GUTTER	
PROPOSED CONCRETE CURB, GUTTER, & SIDEWALK	
PROPOSED CONCRETE SIDEWALK	
PROPOSED "WET" UTILITIES (CONSTRUCTION NOTE WILL INDICATE TYPE, SIZE, AND MATERIAL OF NEW MAIN)	
ALL PROPOSED FEATURES NOT SHOWN IN LEGEND WILL BE SHOWN THE SAME AS THEIR EXISTING COUNTERPART, BUT INDICATED BY BOLDER LINETYPE	
RAIL ROAD	
RETAINING WALL	
STRIPING (CONTINUOUS WHITE)	
STRIPING (DASHED WHITE)	
STRIPING (CONTINUOUS YELLOW)	
STRIPING (DASHED YELLOW)	
TOP OF SLOPE	
CONTOUR LINES (SHOWN BETWEEN TOP & TOE)	
TOE OF SLOPE	
TRAFFIC DETECTOR LOOP	
UTILITY LINE (ABANDON) (THIS CASE A WATER LINE)	
UTILITY LINE (CABLE TV)	
UTILITY LINE (ELECTRIC)	
UTILITY LINE (FIBER OPTIC)	
UTILITY LINE (GAS)	
UTILITY LINE (HIGH VOLTAGE OVERHEAD POWER)	
UTILITY LINE (OVERHEAD POWER)	
UTILITY LINE (OVERHEAD TELEPHONE)	
UTILITY LINE (SANITARY SEWER)	
UTILITY LINE (SANITARY SEWER FORCE MAIN)	
UTILITY LINE (SANITARY SEWER SERVICE)	
UTILITY LINE (STORM SEWER)	
UTILITY LINE (STORM SEWER, PERFORATED)	
UTILITY LINE (STORM/SANITARY SEWER SEWER COMBINATION)	
UTILITY LINE (TELEPHONE)	
UTILITY LINE (WATER)	

SYMBOLS

BENCH MARK	
CATCH BASIN	
CLEAN OUT	
CURB STOP	
FIRE HYDRANT	
GUY WIRE ANCHOR	
HEADGATE	
IRRIGATION PUMP	
MAILBOX	
MANHOLE (ELECTRIC)	
MANHOLE (GAS)	
MANHOLE (SANITARY/STORM)	
MANHOLE (TELEPHONE)	
MANHOLE (TV)	
MANHOLE (WATER)	
METER (GAS)	
METER (WATER)	
PEDESTAL (TELEPHONE)	
PEDESTAL (TV)	
PROPERTY PIN	
PULL BOX	
REDUCER FITTING	
SIGN OR POST (SIGN TYPE NOTED)	
SPRINKLER HEAD	
STREET LIGHT	
SURVEY MONUMENT (CITY)	
SURVEY MONUMENT (TYPE NOTED)	
TEST HOLE	
TRAFFIC PAINT MARKING	
TRAFFIC SIGNAL POLE AND MAST ARM	
UTILITY POLE	
VALVE (GAS)	
VALVE (IRRIGATION)	
VALVE (WATER)	
VEGETATION (HEDGE OR BUSH)	
VEGETATION (TREE STUMP)	
VEGETATION (TREE) (CALIPER SIZE NOTED)	
WATER HYDRANT	
WEIR	
YARD LIGHT	



NORTH ARROW:



02110902.TIF

REVISION	DESCRIPTION	DATE
REVISION Δ		
REVISION Δ		
REVISION Δ		
REVISION Δ		

DRAWN BY	JCS	DATE	4-02
DESIGNED BY		DATE	
CHECKED BY		DATE	
APPROVED BY		DATE	

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



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

CITY OF GRAND JUNCTION STANDARD ABBREVIATIONS, LEGEND, AND SYMBOLS SHEET

Item No.	CDOT, City Ref.	Description	Quantity	Units
1a	102.11/108.5	Connect to existing manhole (6" and/or 8" dia. Pipe) as per Std. Detail SS-04, SS-08.	6.	EA
1b	102.11/102.14 /108.5	Re-construct manhole bench and invert in existing manhole. Use All-Crete 5-Minute Set (Fostroc Inc.) or equivalent for invert finishing.	6.	EA
2	102.11/108.5	Sanitary sewer basic manhole (D=5')(48" I.D.).	41.	EA
3	102.11/108.5	Manhole barrel section (D=5')(48" I.D.).	108.	LF
4	102.11/108.5	Sanitary sewer shallow manhole (D=5')(48" I.D.). Includes lid slab if required.	13.	EA
5a	102.11/108.5	Sanitary sewer basic drop manhole (6" dia. pipe)(D=5')(48" I.D.). Includes manhole coating as per 102.11. (See Std. Detail SS-04).	1.	EA
5b	102.11/108.5	Drop manhole barrel section (D=5')(48" I.D.). Includes manhole coating as per 102.11. (See Std. Detail SS-04).	1.26	VLF
5c	102.11/108.5	Convert existing manhole to drop manhole (48" I.D.). Pipe diameter either 6" or 8". Includes 6" x 8" adapter and manhole coating as per 102.11 (See Std. Detail SS-04). At contractor's discretion, clean, dry and coat inside of manhole or remove, install	2.	EA
6a	102.9a/108.2	6" gravity sewer pipe (SDR-35 PVC). Includes Type A bedding and haunching material and backfill of trench with native materials meeting 103.16 earth backfill material.	10,600.	LF
6b	102.9a/108.2	8" gravity sewer pipe (SDR-35 PVC). Includes Type A bedding and haunching material and backfill of trench with native materials meeting 103.16 earth backfill material.	394.	LF
7	102.9a/108.2 /703.08	6" gravity sewer pipe (PVC Class 160 IFS SDR-26) with EBAA Iron Series 6500 joint restraints installed as per mfg. specifications. Includes Type A bedding and haunching and backfill of trench with native materials meeting CDOT 703.08 Class 2 structure ba	2,200.	LF
8a	102/103/104 /108.3	4" Sewer service tap, 6" x 4" full body w/ye (See Std. Detail SS-06).	128.	EA
8b	102/103/104 /108.3	4" Sewer service tap, 8" x 4" full body w/ye (See Std. Detail SS-06).	3.	EA
9a	102/103/104 /108.2	4" SDR-35 PVC sanitary service line with native backfill meeting 103.16 earth backfill material. Includes single service line per trench, Type A bedding and haunching, and end-of-service cap.	5,500.	LF
9b	102/103/104 /108.2	4" SDR-35 PVC sanitary service line with native backfill meeting 103.16 earth backfill material. Includes two service lines per trench, Type A bedding and haunching, and end-of-service cap.	500.	LF
9c	102/103/104 /108.2	2" Eagle Pure Core Blue SDR-9 200psi CTS HDPE sewer service line. Includes fittings at each end as per Special Provisions, Type A bedding and haunching material and backfill of trench with native materials meeting 103.16 earth backfill material.	200.	LF
10	104.2.b/108.3	Install 2-way sanitary sewer service cleanout (outside of R.O.W.). Includes irrigation valve box.	5.	EA
11	104.2.b/108.3	Install 2-way sanitary sewer service cleanout (within R.O.W.). Includes cleanout ring and cover (see Std. Detail SS-07).	9.	EA
12	GCC56	New sletter (approximately 170 per distribution, mailed weekly).	1.	LS
13	102/103/104 /108.3	4" Sewer service tap, 6" IFS SDR-26 x 4" SDR-35, full body w/ye, to property line (See Std. Detail SS-06). Includes EBAA Iron Series 6500 joint restraints.	11.	EA
14	102.9/104.2.b /108.3	Install 8"x4" tapping saddle with stainless steel straps.	9.	EA
15	102/103/104 /108.2	Install 6" SDR-21 Yelomine restrained joint or SDR-11 HDPE sanitary sewer line via directional drilled bore. Includes directional drilling, placement of pipe, stabilization of bore, and removal of excess pull length. Paid per foot of pipe placed in ser	21.	LF
16	102/103/104 /108.2	Install 4" SDR-21 Yelomine restrained joint or SDR-11 HDPE sanitary sewer service via directional drilled bore. Includes directional drilling, placement of pipe, stabilization of bore, and removal of excess pull length. Paid per foot of pipe placed in	37.	LF
17	104.4	Cap top half of sewer in concrete per Std. Detail GU-04.	238.	LF
18	104.4	Encase entire sewer in reinforced concrete per Std. Detail GU-04.	135.	LF
19	102.10	Repair un-located irrigation/waterline damaged during construction, including electrical splicing.	150.	EA
20a	102/103/104	Install 6" gravity sewer pipe (SDR-35 PVC) in 10" Class 200 casing pipe (PVC, HDPE, or steel) via horizontal directional drilling. Includes directional drilling, placement of sewer and casing pipe, stabilization of bore, removal of excess pull length,	59.	LF
20b	102/103/104	Install 6" gravity sewer pipe (SDR-35 PVC) in 10-inch PVC Class 160 SDR-26 heavy w all (sewer) casing-pipe for Hwy 340 sewer crossing. Polyethylene casing spacers required. Grout-seal annular space between casing and sewer pipe at pipe ends.	35.	LF
21	102/104.3.c	Enclose 6-inch sanitary sewer in 10-inch steel casing pipe w/ 0.25-inch w all thickness beneath canal crossing. Polyethylene casing spacers required.	15.	LF
22	104.3d	Vertical relocate PVC waterline as per Std. Detail W-07, W-08, W-12 and Detail RMSID-03. Use Schedule 80 PVC w/ solvent weld joints. Thrust block as per detail RMSID-03. Sw ab and spray disinfect. Notify Ute Water 3 days prior to work. Thrust blocks an	3.	EA
23	103.16	Imported trench backfill. Includes disposal of unsuitable excavated material.	5,000.	TON
24	103.15/108.7	Granular stabilization material (Type B).	1,100.	TON
25	103.3	Asphalt Removal for trench excavation: Cut and remove (or full-depth mill) asphalt as shown.	6,800.	SY
26	103.3	Asphalt Removal for T-Top patching of Hwy. 340 (Milling): Remove asphalt and flow fill by milling.	1,250.	SY
27	103.18/401	Pavement and road base replacement on side streets and driveway: 3" hot bituminous pavement (Grading SX SuperPave 75-gyraton, PG 64-28 oil), over 6" Class 6 ABC (See Std. Detail GU-03). Paid per SY.	6,400.	SY
28	304	6" Class 6 ABC for gravel road surface course. Compact to 95% AASHTO T-180. Paid per SY.	850.	SY
29	103.18 / 401	Pavement Replacement on Hwy 340: Hot bituminous pavement, Grading SX SuperPave 75-gyraton, Binder Grade PG 64-28.	440.	TON
30	304	12" Class 6 ABC for Hwy 340 road base. Compact in 6" lifts to 95% AASHTO T-180.	190.	TON

Item No.	CDOT, City Ref.	Description	Quantity	Units
31	304	12" Class 6 ABC for Hwy 340 shoulder gravel. Compact in 6" lifts to 95% AASHTO T-180. Paid per ton.	415.	TON
32	206.02 /206.03	Structure Backfill (flow fill). Paid per CY.	140.	CY
33	103.11 /108.8	Rock Excavation. See Special Provisions for definition and payment.	850.	CY
34	103.14	Install 4" thick concrete cap over sewer pipe. Cap shall extend for 1 FT beyond outer edge of sewer pipe, both sides and shall be placed on top of Type A initial backfill.	388.	LF
35	202	Remove concrete pavement.	70.	SY
36	412	Replace concrete driveway section (6" thick), including patterned concrete.	70.	SY
37	304	4" Class 6 ABC for shoulders and gravel driveways. Compacted to 90% AASHTO T-180.	2,675.	SY
38	703.05	Washed rock surface course for gravel driveways. Match existing type. Thickness is 2" min and 3" max.	600.	SY
39	202/608	Remove and replace concrete or asphalt curb and gutter/curbing/gutter/border. Size and style vary. Match existing.	65.	LF
40a	202/102.10	Remove existing stormwater/irrigation culvert. Replace with 12" ADS N-12 IB WT. Trench width = OD+12" min; =OD+18" max. Install Type A Bedding Material to springline; grout seal/repair at existing concrete inlet/outlet structure where present; incidental	30.	LF
40b	202/102.10	Remove existing stormwater/irrigation culvert. Replace with 18" ADS N-12 IB WT. Trench width = OD+12" min; =OD+18" max. Install Type A Bedding Material to springline; grout seal/repair at existing concrete inlet/outlet structure where present; incidental	52.5	LF
40c	202/102.10	Remove existing stormwater/irrigation culvert. Replace with 8" C-900 DR-14. Trench width = OD+12" min; =OD+18" max. Install Type A Bedding Material to springline; flow fill springline to base of asphalt (100 lbs cement/CY); grout seal/repair at existing c	29.	LF
40d	202/102.10	Remove existing stormwater/irrigation culvert. Replace with 12" C-900 DR-14. Trench width = OD+12" min; =OD+18" max. Install Type A Bedding Material to springline; flow fill springline to base of asphalt (100 lbs cement/CY); grout seal/repair at existing	522.	LF
40e	213/216	Regrade ditch to new invert. 3:1 Flow line slope between existing ditch and proposed invert. 1.5:1 sideslopes between existing ground and new flow line. Apply native seed hydromulch, then North American Green C-250 erosion control mat, installed as per m	16.	SY
40f	203	Regrade existing borrow ditch to provide cover over proposed sanitary sewer pipe. Includes regrading into private property. See Sheet 6b for alignment, profile and cross-sections.	182.	CY
41	202	Remove bush.	6.	EA
42	202	Remove tree.	20.	EA
43	210	Reset Water meter and pit.	3.	EA
44	210	Reset fence (all types).	560.	LF
45	210	Reset mailbox.	20.	EA
46	210	Reset post/sign.	12.	EA
47	210	Reset irrigation system components (per each property).	34.	EA
48a	210	Reset Landscape Appurtenances (decorative rock, wood chips, tree bark). Match existing w/ Min thickness = 2". Reuse existing if kept free of fines/detritus. Landscaping fabric required and incidental to pay item. Paid per SY.	60.	SY
48b	210	Reset Landscape Appurtenance (individuals planters, pots, boxes, etc.). Paid per EA.	10.	EA
49	210	Reset wood border.	40.	LF
50	210	Reset stone/rock/brick/masonry border.	60.	LF
51	207	Topsoil, 12" thick. Reuse existing if stockpiled, kept free of detritus, and approved by inspector/engineer.	60.	SY
52	212	Sod. Stockpile, keep free of detritus, and reuse existing 12" topsoil.	1,200.	SY
53	212 /213.03(b)	Hydro-seed with native seed mix.	3,700.	SY
54	203.02 /103.16	Excavate, bed, and backfill with materials meeting 103.15 and 103.16 for utility relocations which require excavation beyond that required for sewer installation. Must be approved by engineer or inspector if not specified on plans. Trench depth shall be 28	100.	SY
55	629	Reference and reset survey monument.	20.	EA
56	201	Clearing and grubbing.	1.	LS
57	209	Dust abatement.	130.	DAY
58	620	Portable sanitary facility.	1.	LS
59	625	Construction surveying, including as-built drawings.	1.	LS
60	626	Mobilization	1.	LS

Item No.	CDOT, City Ref.	Description	Quantity	Units
61	630	Traffic control plan.	1.	LS
62	630	Traffic control (complete in place).	1.	LS
63	630	Flagging.	216.	HRS
64	208	Stormwater management plan implementation.	1.	LS
65	GCC56	New sletter (approximately 165 per distribution. Mailed weekly).	1.	LS
100		Protect tree/bush. Refer to special provisions for root treatment.		
101		Span/support/protect existing culvert. Amend backfill with bentonite pond liner (mixed as per mfg. specifications) for placement around culvert (2' all sides of pipe over exposed length) during backfill operation. Incidental to sewer installation pay item		
102		Clay cut-off wall (incidental to sewer installation pay item).		
103		Contractor is responsible for repair costs associated with any/all damage to private property behind ROW line or easement limits.		
104		104.2c - Install concrete collar w/ #4 rebar hoop as per Std. Detail SS-02. Incidental to manhole pay item.		
105		Contractor to field-verify elevation of waterline and fiber-optic line at 22 1/4 Rd. and Reed Mesa Dr. intersection prior to laying sewer from MH-3 to MH-4.		
106		Protect/stabilize pole, post, sign.		
108		Gas line to be abandoned by Xcel. Provide 3 days advance notice and coordinate with Xcel.		
109		Telephone pedestal to be relocated by Qwest. Provide 10 days advance notice.		
110		Install sanitary sewer warning tape, 6" - 12" above top of service. Incidental to cost of service installation.		
111		Protect or reference and reset property pin. Cost is incidental to cost of sewer installation.		
112		Protect in place survey monument.		

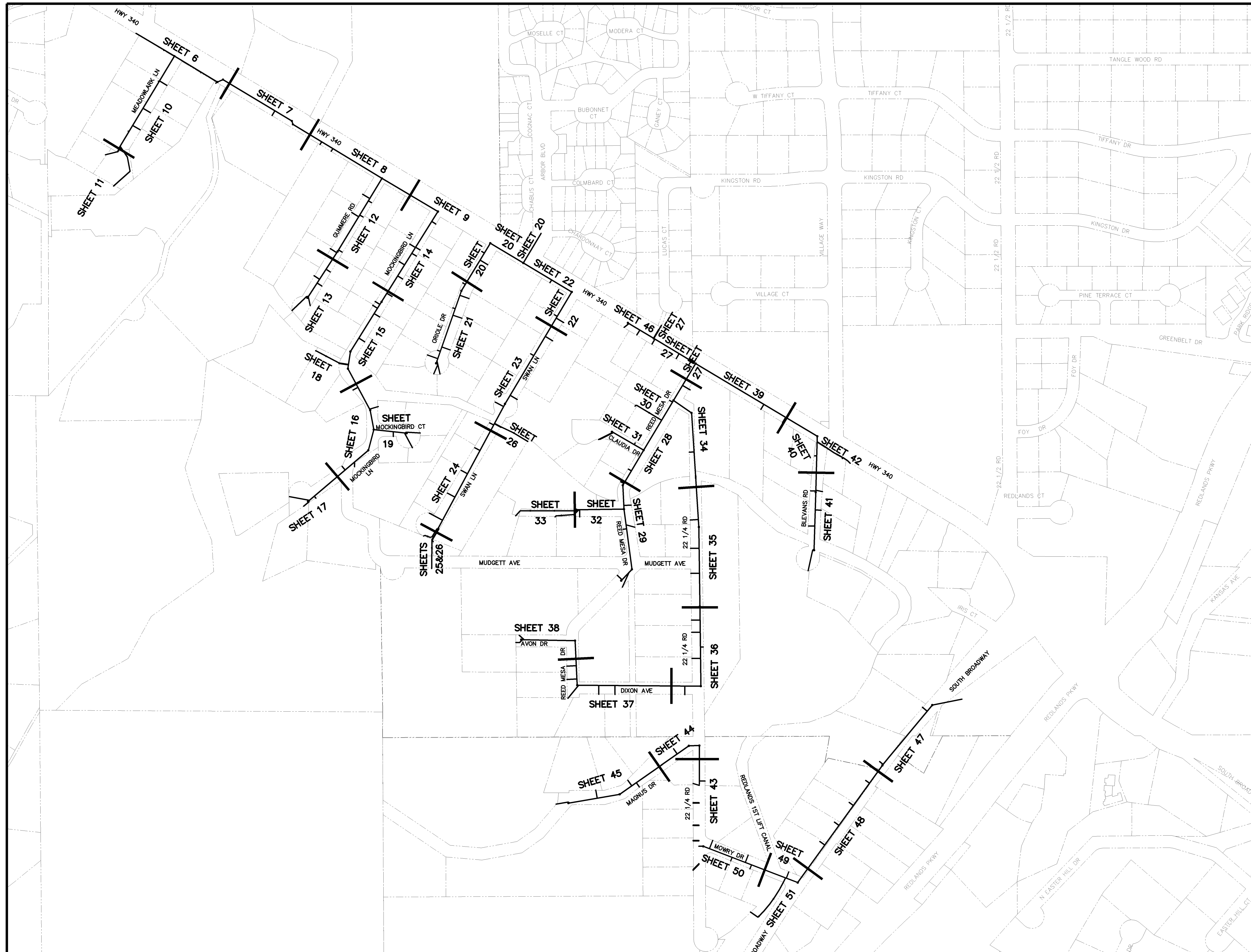
\\snp\proj\402110903\REED MESA SANITARY IMPROVEMENT DISTRICT\SUMMARY OF APPROXIMATE QUANTITIES\REVISIONS\REVISIONS 8-14-05

DESCRIPTION	DATE	DRAWN BY	DAW/TLT	DATE	2005	SCALE:
REVISION A APPENDUM #	6/24/05					PLAN
REVISION B PRECONSTRUCTION	5/10/05					PROFILE
REVISION C						N/A
REVISION D						N/A
DESIGNED BY		DRD		DATE	2005	
CHECKED BY		DRD		DATE	2005	
APPROVED BY				DATE		



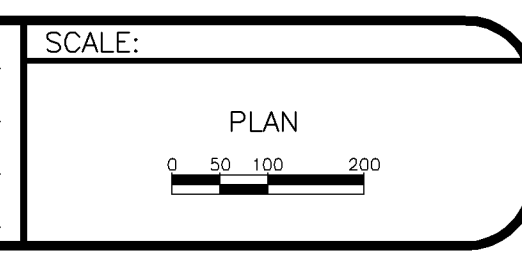
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT SUMMARY OF APPROXIMATE QUANTITIES



02110904.tif

REVISION	DESCRIPTION	DATE	DRAWN BY	JCS	DATE	2005
REVISION			DESIGNED BY		DATE	
REVISION			CHECKED BY		DATE	
REVISION			APPROVED BY		DATE	

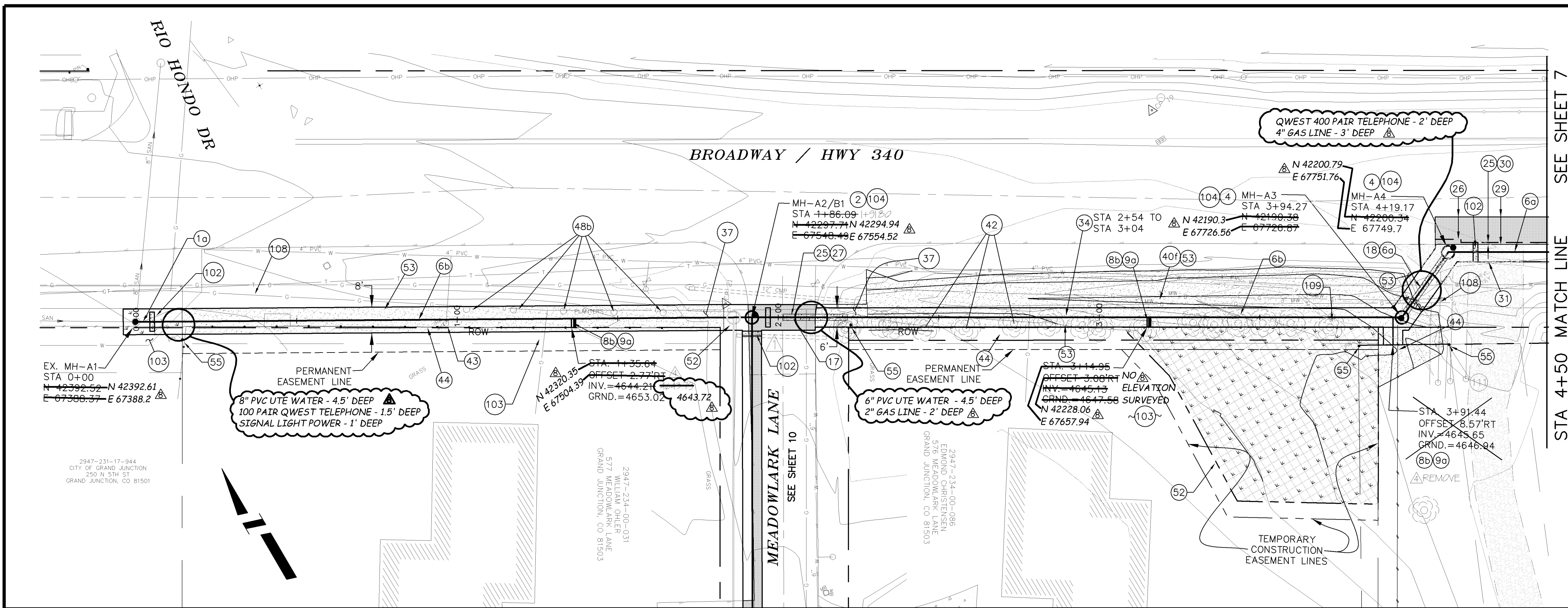


**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**REED MESA SANITARY IMPROVEMENT DISTRICT
PROJECT KEYMAP**

CONSTRUCTION NOTES

- 17 104.4 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL GU-04.
- 18 104.4 - ENCASE ENTIRE SEWER IN REINFORCED CONCRETE PER STD. DETAIL GU-04.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 26 103.3 - ASPHALT REMOVAL FOR T-TOP PATCHING OF HWY. 340 (MILLING): REMOVE ASPHALT AND FLOWFILL BY MILLING.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, (PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 29 103.18/401 - PAVEMENT REPLACEMENT ON HWY 340: HOT BITUMINOUS PAVEMENT, GRADING SX SUPERPAVE 75-GYRATION, BINDER GRADE PG 64-28.
- 30 304 - 12" CLASS 6 ABC FOR HWY 340 ROAD BASE. COMPACT IN 6" LIFTS TO 95% AASHTO T-180.
- 31 304 - 12" CLASS 6 ABC FOR HWY 340 SHOULDER GRAVEL. COMPACT IN 6" LIFTS TO 90% AASHTO T-180. PAID PER TON.
- 32 206.02/206.03 - STRUCTURE BACKFILL (FLOWFILL). PAID PER CY.
- 34 103.14 - INSTALL 4" THICK CONCRETE CAP OVER SEWER PIPE. CAP SHALL EXTEND FOR 1 FT BEYOND OUTER EDGE OF SEWER PIPE, BOTH SIDES AND SHALL BE PLACED ON TOP OF TYPE A INITIAL BACKFILL.
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 40 203 - REGRADE EXISTING BORROW DITCH TO PROVIDE COVER OVER PROPOSED SANITARY SEWER PIPE. INCLUDES REGARDING INTO PRIVATE PROPERTY. SEE SHEET 6B FOR ALIGNMENT, PROFILE AND CROSS-SECTIONS.
- 42 202 - REMOVE TREE.
- 43 210 - RESET WATER METER AND PIT.
- 44 210 - RESET FENCE. (ALL TYPES)
- 48b 210 - RESET LANDSCAPE APPURTENANCE (INDIVIDUALS PLANTERS, POTS, BOXES, ETC.). PAID PER EA.
- 52 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 629 629 - REFERENCE AND RESET SURVEY MONUMENT.
- 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- 103 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.
- 104 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO MANHOLE PAY ITEM.
- 108 GAS LINE TO BE ABANDONED BY XCEL. PROVIDE 3 DAYS ADVANCE NOTICE AND COORDINATE WITH XCEL.
- 109 TELEPHONE PEDESTAL TO BE RELOCATED BY QWEST. PROVIDE 10 DAYS ADVANCE NOTICE.
- 111 PROTECT OR REFERENCE AND RESET PROPERTY PIN. COST IS INCIDENTAL TO COST OF SEWER INSTALLATION.



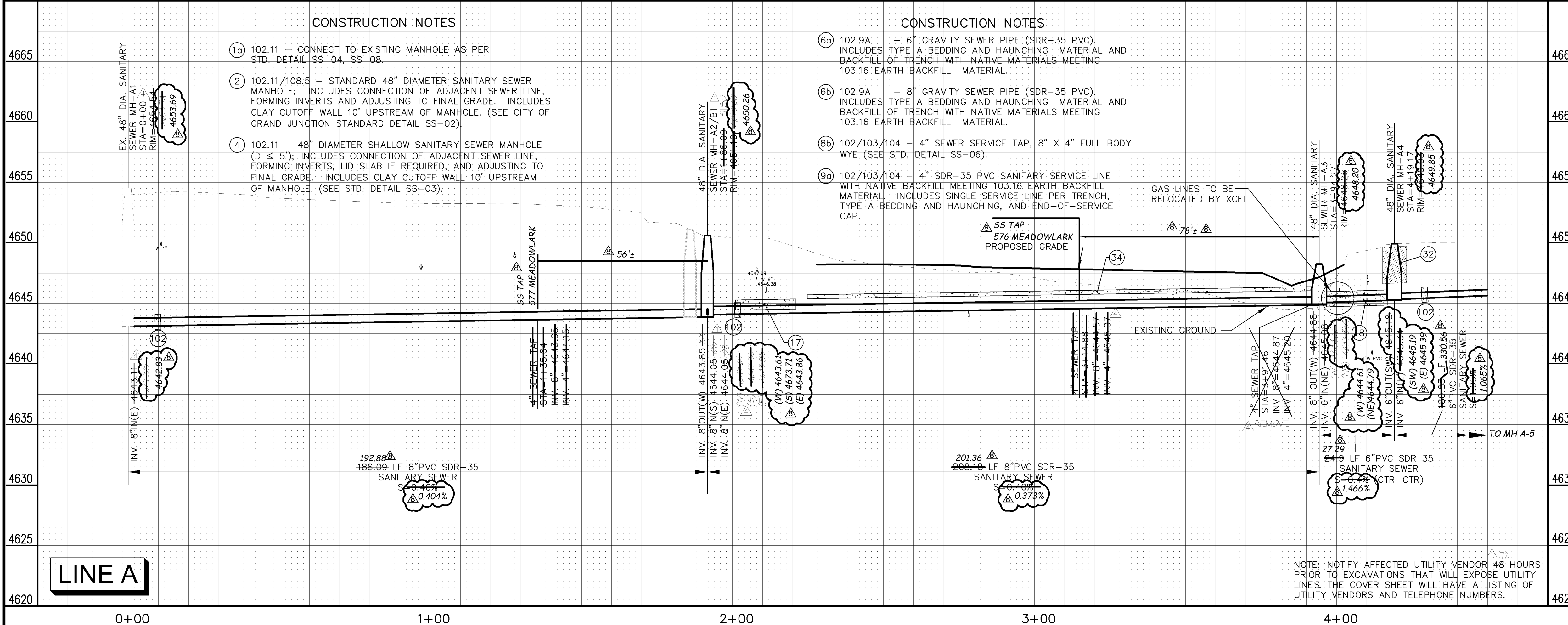
SEE SHEET 7
STA 4+50 MATCH LINE

CONSTRUCTION NOTES

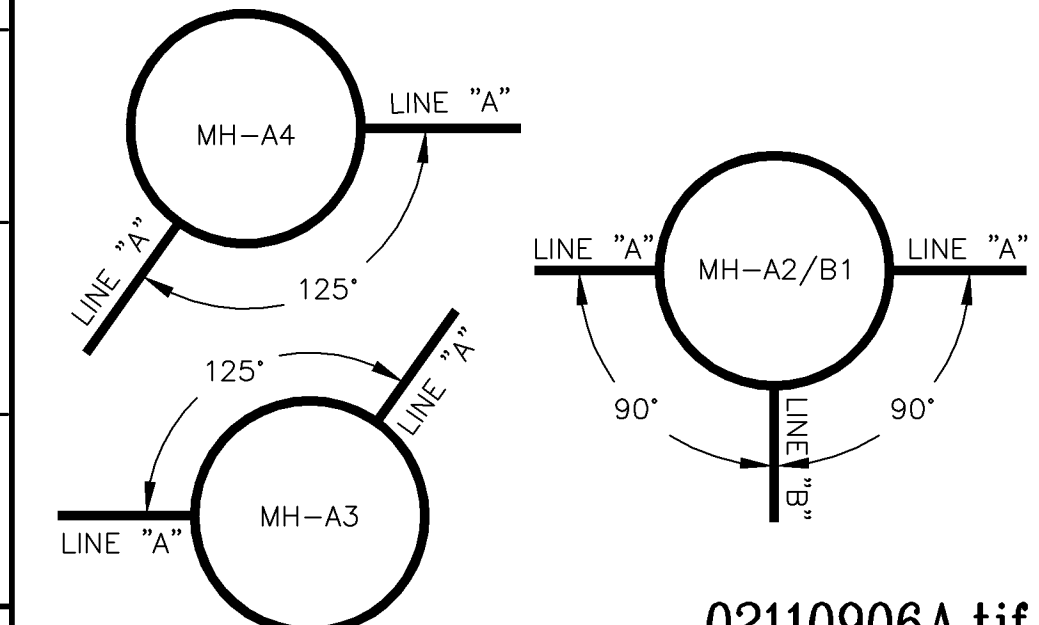
- 1a 102.11 - CONNECT TO EXISTING MANHOLE AS PER STD. DETAIL SS-04, SS-08.
- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. INCLUDES CLAY CUTOFF WALL 10' UPSTREAM OF MANHOLE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 4 102.11 - 48" DIAMETER SHALLOW SANITARY SEWER MANHOLE (D ≤ 5'); INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS, LID SLAB IF REQUIRED, AND ADJUSTING TO FINAL GRADE. INCLUDES CLAY CUTOFF WALL 10' UPSTREAM OF MANHOLE. (SEE STD. DETAIL SS-03).

CONSTRUCTION NOTES

- 6a 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 6b 102.9A - 8" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 8b 102/103/104 - 4" SEWER SERVICE TAP, 8" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 9a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.



MANHOLE DEFLECTION ANGLES



NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	2005
REVISION A	APPENDIX #1	01/14/05	TLT	DATE	2005
REVISION B	PRECONSTRUCTION	01/06/05	DRD	DATE	2005
REVISION C	WORK CHANGE REQUEST #1	11/22/05	DRD	DATE	2005
REVISION D	AS BUILT RECORDS	04-2007		DATE	

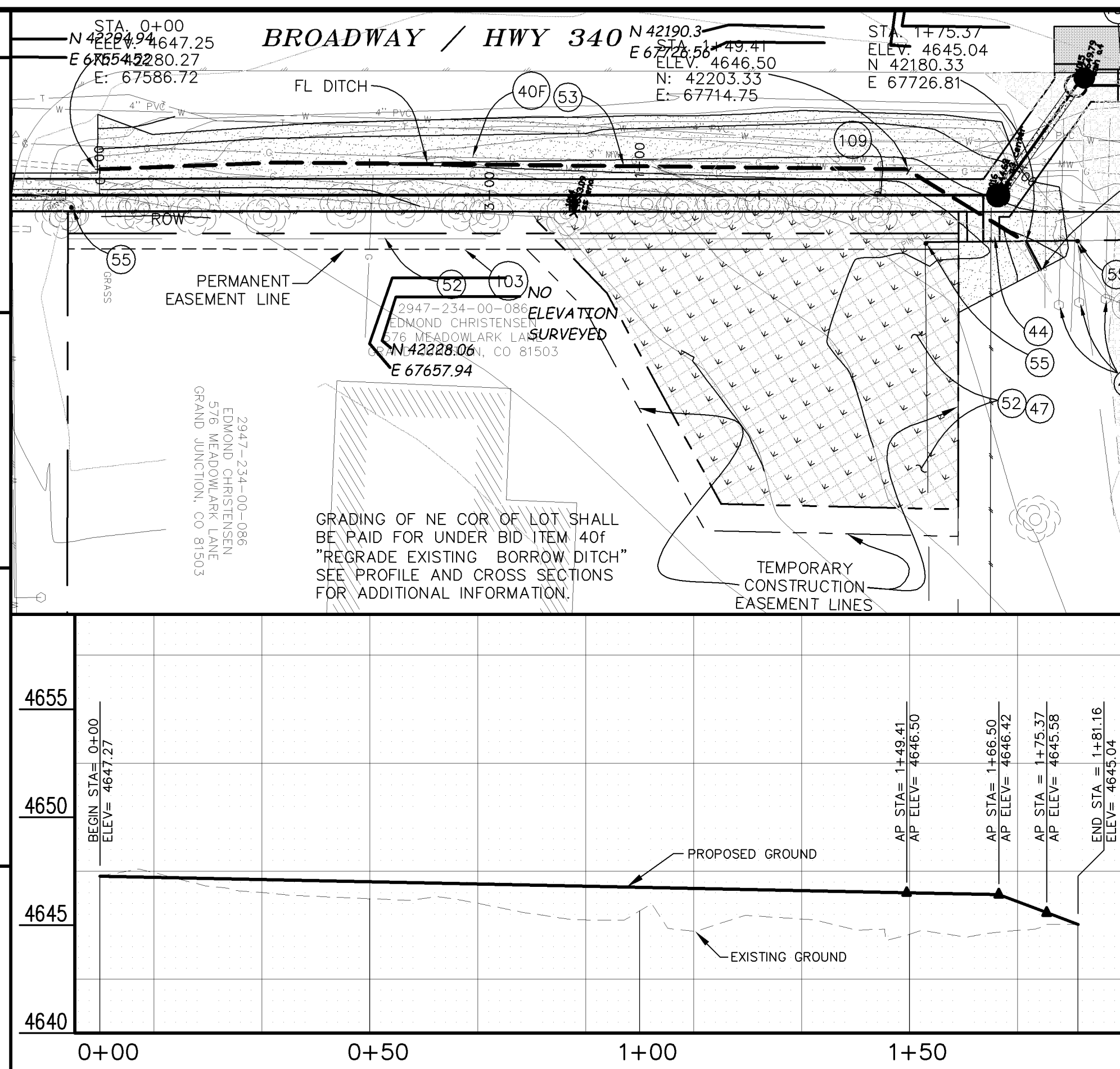
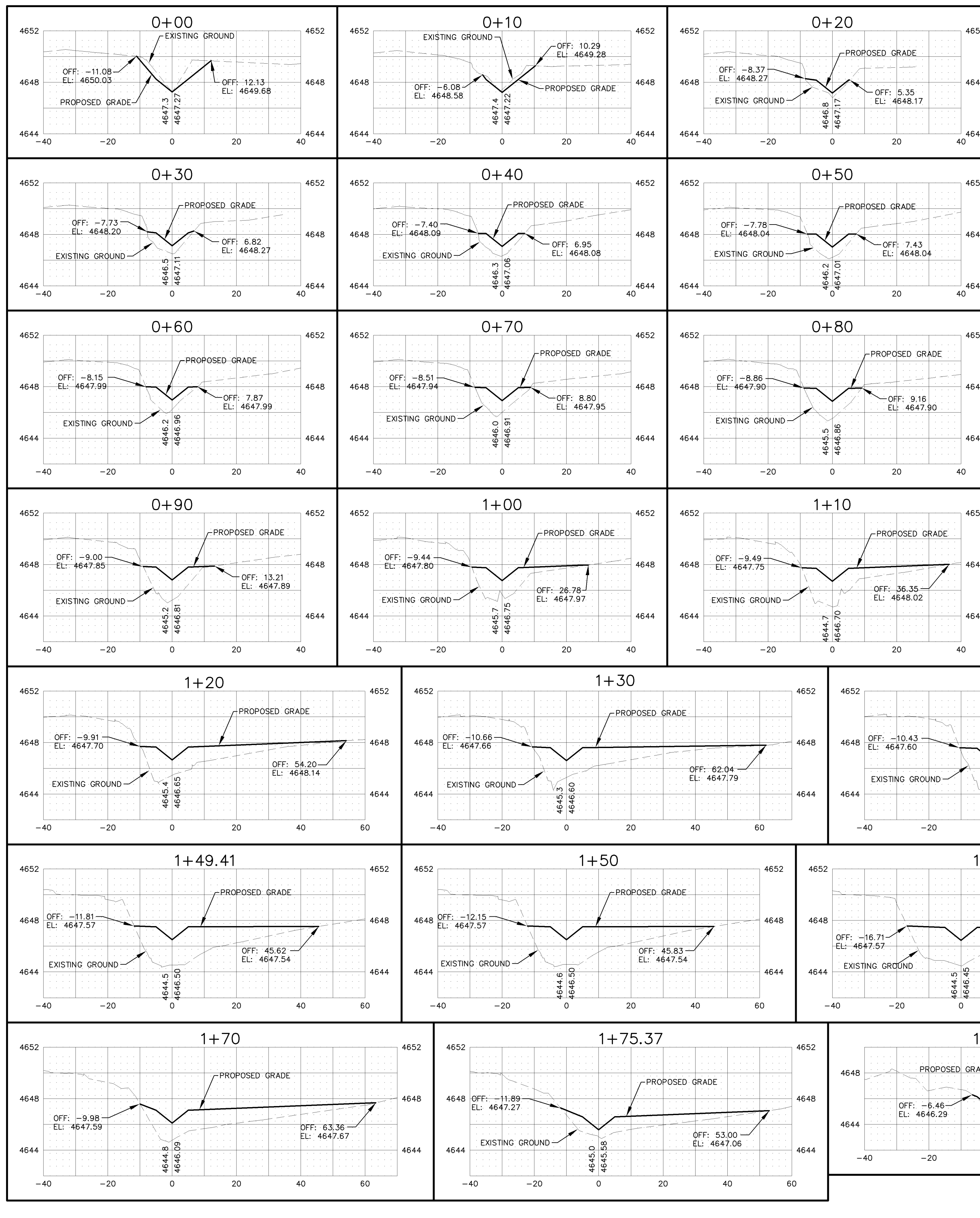
SCALES:

PLAN	HORIZONTAL	1" = 20'
PROFILE	HORIZONTAL	1" = 20'
	VERTICAL	1" = 2.5'

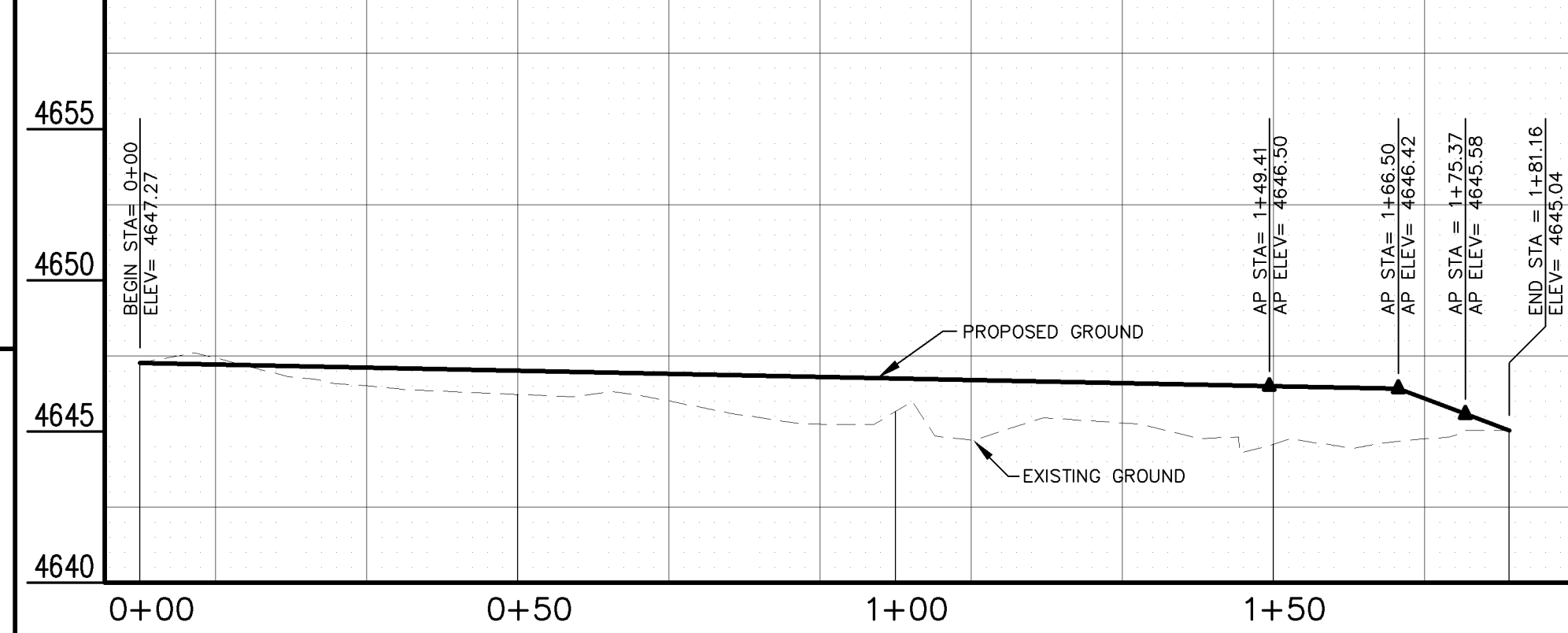
CITY OF Grand Junction COLORADO

PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
BROADWAY AVE PLAN AND PROFILE
 STA 0+00 TO STA 4+50

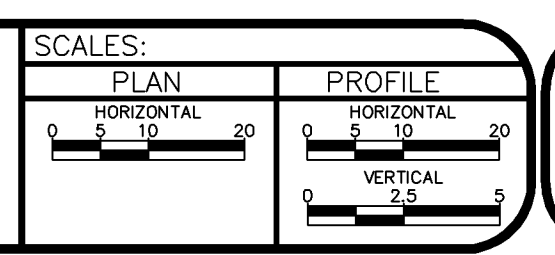


- CONSTRUCTION NOTES**
- 40F 203 - REGRADE EXISTING BORROW DITCH TO PROVIDE COVER OVER PROPOSED SANITARY SEWER PIPE. INCLUDES REGARDING INTO PRIVATE PROPERTY.
 - 43 210 - RESET WATER METER AND PIT.
 - 44 210 - RESET FENCE.
 - 47 210 - RESET IRRIGATION SYSTEM COMPONENTS (PER EACH PROPERTY).
 - 52 212 - SOD, INCLUDES 12" OF TOPSOIL. REUSE EXISTING TOPSOIL IF STOCKPILED, KEPT FREE OF DETRITUS, AND APPROVED BY INSPECTOR/ENGINEER.
 - 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
 - 55 629 - REFERENCE AND RESET PROPERTY PIN/SURVEY MONUMENT.
 - 103 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE.
 - 109 TELEPHONE PEDESTAL TO BE RELOCATED BY QWEST. PROVIDE 10 DAYS ADVANCE NOTICE.
 - 111 PROTECT OR REFERENCE AND RESET PROPERTY PIN. COST IS INCIDENTAL TO COST OF SEWER INSTALLATION.



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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
1	PRECONSTRUCTION	9/26/05	TLT	2005	PLAN: 1"=40'
2			DRD	2005	PROFILE: 1"=10'
3			DRD	2005	VERTICAL: 1"=5'
4					

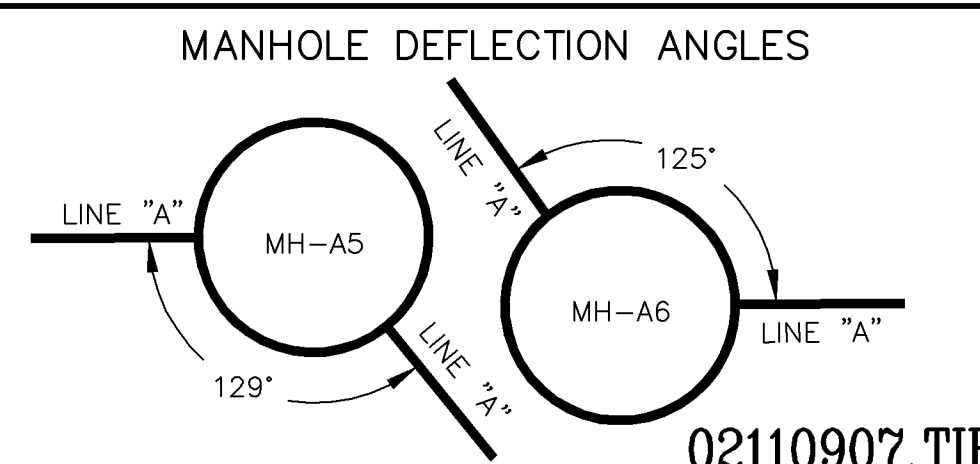
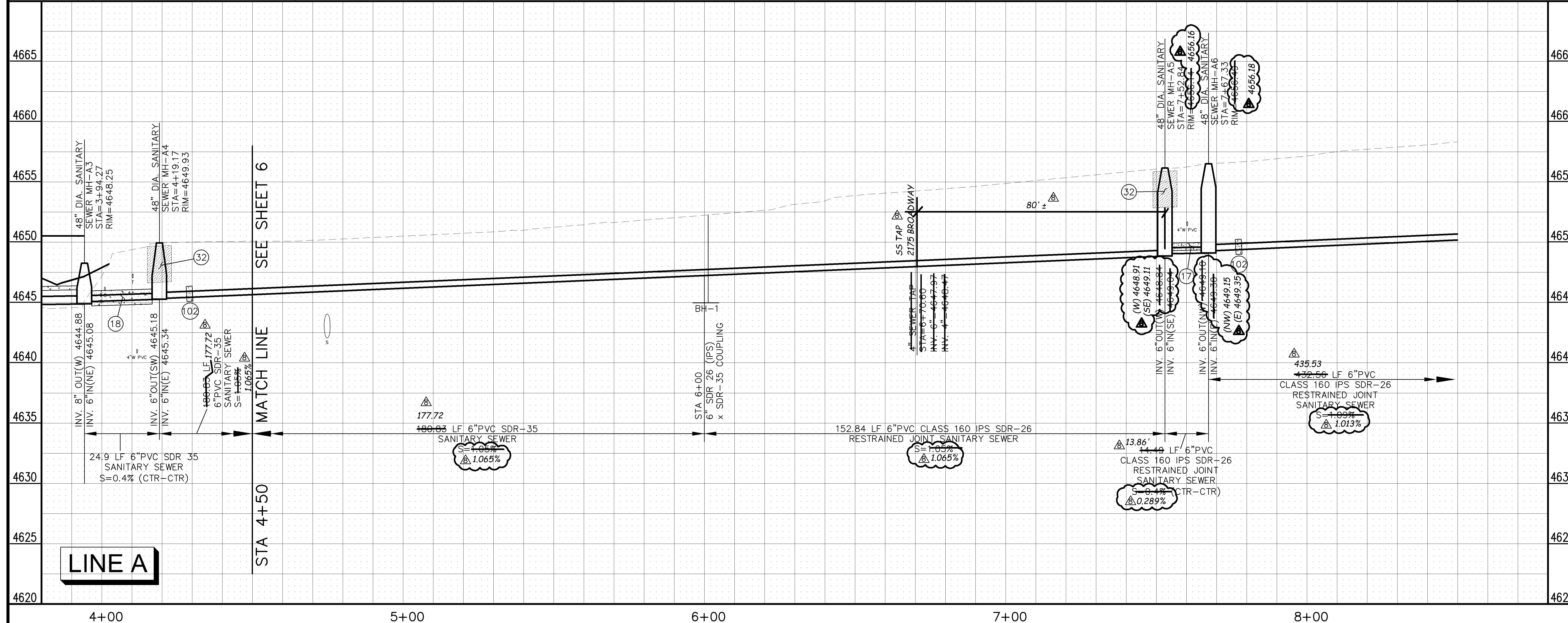
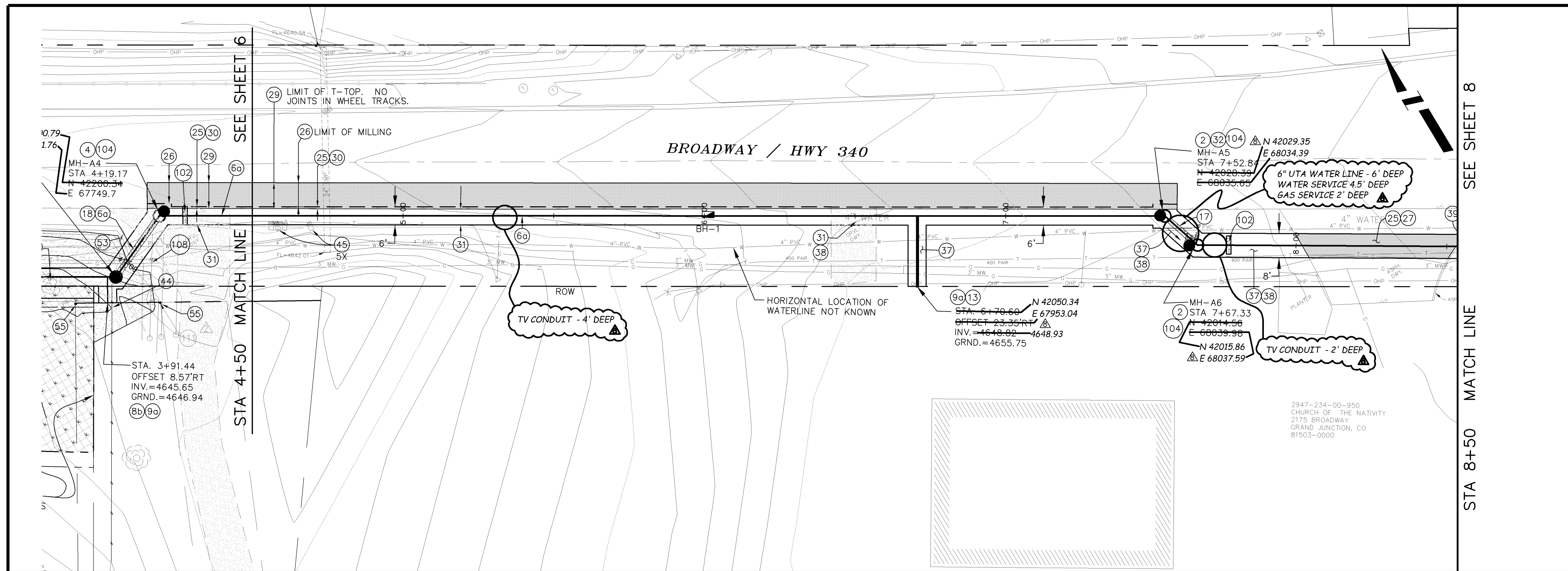


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT BORROW DITCH REGRADE - CROSS SECTIONS STA 0+00 TO STA 1+81.16

CONSTRUCTION NOTES

- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE. INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 60 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 80 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 90 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 13 102/103/104 - 4" SEWER SERVICE TAP, 6" IPS SDR-26 X 4" SDR-35, FULL BODY WYE (SEE STD. DETAIL SS-06). INCLUDES EBAA IRON SERIES 6500 JOINT RESTRAINTS.
- 17 104.4 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL GU-04.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 26 103.3 - ASPHALT REMOVAL FOR T-TOP PATCHING OF HWY. 340 (MILLING): REMOVE ASPHALT AND FLOWFILL BY MILLING.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 29 103.18/401 - PAVEMENT REPLACEMENT ON HWY 340: HOT BITUMINOUS PAVEMENT, GRADING SX SUPERPAVE 75-GYRATION, BINDER GRADE PG 64-28.
- 30 304 - 12" CLASS 6 ABC FOR HWY 340 ROAD BASE. COMPACT IN 6" LIFTS TO 95% AASHTO T-180.
- 31 304 - 12" CLASS 6 ABC FOR HWY 340 SHOULDER GRAVEL. COMPACT IN 6" LIFTS TO 90% AASHTO T-180. PAID PER TON.
- 32 206.02/206.03 - STRUCTURE BACKFILL (FLOWFILL). PAID PER CY.
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 38 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- 39 202/608 - REMOVE AND REPLACE CONCRETE OR ASPHALT CURB AND GUTTER/CURBING/GUTTER/BORDER. SIZE AND STYLE VARY. MATCH EXISTING.
- 44 210 - RESET FENCE. (ALL TYPES)
- 45 210 - RESET MAILBOX.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 629 - REFERENCE AND RESET SURVEY MONUMENT.
- 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- 104 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO MANHOLE PAY ITEM.
- 108 GAS LINE TO BE ABANDONED BY XCEL. PROVIDE 3 DAYS ADVANCE NOTICE AND COORDINATE WITH XCEL.
- 111 PROTECT OR REFERENCE AND RESET PROPERTY PIN. COST IS INCIDENTAL TO COST OF SEWER INSTALLATION.



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A	PRECONSTRUCTION	3/06/05	DRD	2005
REVISION B	AS BUILT RECORDS	01-2007	DRD	2005

PLAN	PROFILE
HORIZONTAL 0 5 10 20	HORIZONTAL 0 5 10 20
VERTICAL 0 2.5 5	VERTICAL 0 2.5 5



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
LINE A - PLAN AND PROFILE
STA 4+50 TO STA 8+50

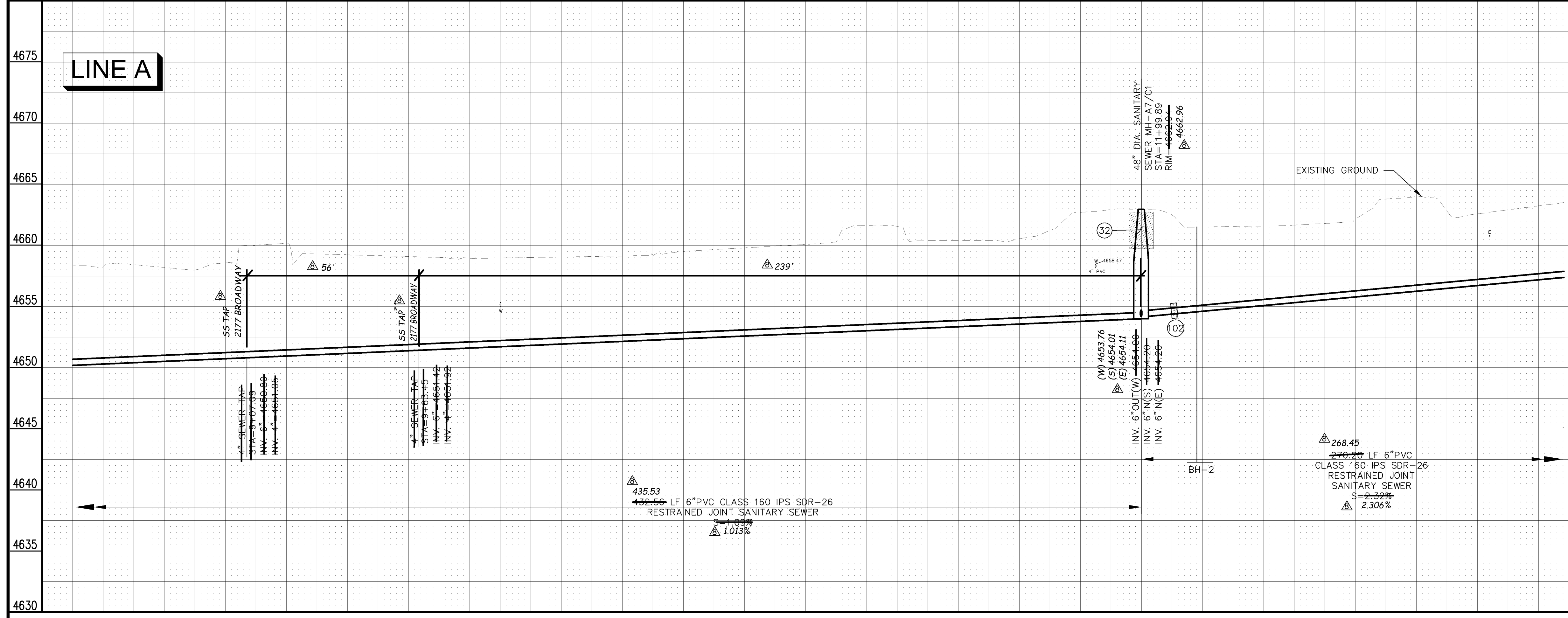
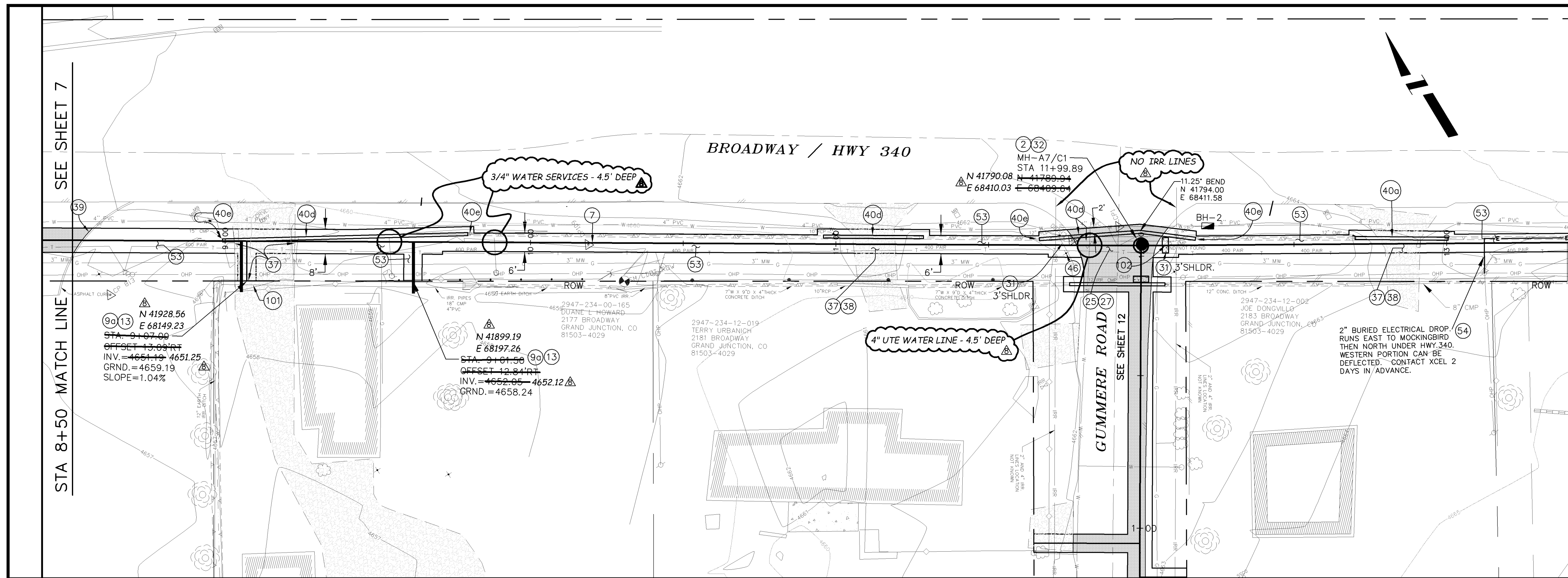
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CONSTRUCTION NOTES

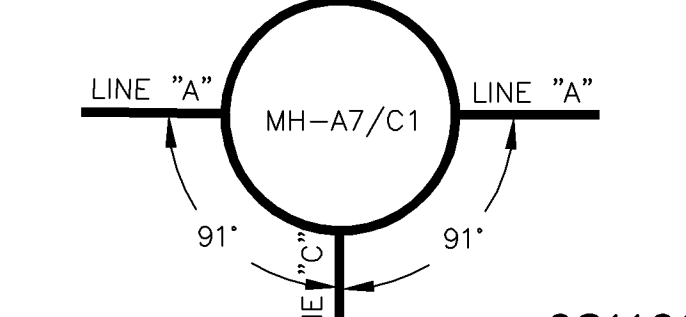
- ② 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- ⑦ 102.9A - 6" GRAVITY SEWER PIPE (PVC CLASS 160 IPS SDR-26) WITH EBAA IRON SERIES 6500 JOINT RESTRAINTS INSTALLED AS PER MFG. SPECIFICATIONS. INCLUDES TYPE A BEDDING AND HAUNCHING AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING CDOT 703.08 CLASS 2 STRUCTURE BACKFILL.
- ⑨a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- ⑬ 102/103/104 - 4" SEWER SERVICE TAP, 6" IPS SDR-26 X 4" SDR-35, FULL BODY WYE, (SEE STD. DETAIL SS-06). INCLUDES EBAA IRON SERIES 6500 JOINT RESTRAINTS.
- ⑲ 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- ⑳ 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- ㉑ 304 - 12" CLASS 6 ABC FOR HWY 340 SHOULDER GRAVEL. COMPACT IN 6" LIFTS TO 90% AASHTO T-180. PAID PER TON.
- ㉒ 206.02/206.03 - STRUCTURE BACKFILL (FLOWFILL). PAID PER CY.
- ㉓ 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- ㉔ 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- ㉕ 202/608 - REMOVE AND REPLACE CONCRETE OR ASPHALT CURB AND GUTTER/CURBING/GUTTER/BORDER. SIZE AND STYLE VARY. MATCH EXISTING.
- ④0a 202/102.10 - REMOVE EXISTING STORMWATER/IRRIGATION CULVERT. REPLACE WITH 12" ADS N-12 IB WT. TRENCH WIDTH = OD+12" MIN; =OD+18" MAX. INSTALL TYPE A BEDDING MATERIAL TO SPRINGLINE; GROUT SEAL/REPAIR AT EXISTING CONCRETE INLET/OUTLET STRUCTURE WHERE PRESENT; INCIDENTAL TO PAY ITEM. SEE CULVERT TABLE, SHEET 5.
- ④0d 202/102.10 - REMOVE EXISTING STORMWATER/IRRIGATION CULVERT. REPLACE WITH 12" C-900 DR-14. TRENCH WIDTH = OD+12" MIN; =OD+18" MAX. INSTALL TYPE A BEDDING MATERIAL TO SPRINGLINE; FLOWFILL SPRINGLINE TO BASE OF ASPHALT (100 LBS CEMENT/CY); GROUT SEAL/REPAIR AT EXISTING CONCRETE INLET/OUTLET STRUCTURE WHERE PRESENT; INCIDENTAL TO PAY ITEM. SEE CULVERT TABLE, SHEET 5.
- ④0e 213/216 - REGRADE DITCH TO NEW INVERT. 3:1 FLOWLINE SLOPE BETWEEN EXISTING DITCH AND PROPOSED INVERT. 1.5:1 SIDESLOPES BETWEEN EXISTING GROUND AND NEW FLOWLINE. APPLY NATIVE SEED HYDROMULCH, THEN NORTH AMERICAN GREEN C-250 EROSION CONTROL MAT, INSTALLED AS PER MFG. SPECIFICATIONS. SEE DETAIL RMSID -06.
- ④6 210 - RESET POST/SIGN.
- ⑤3 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- ⑩1 SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2' ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.
- ⑩2 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).

SEE SHEET 7
STA 8+50 MATCH LINE

SEE SHEET 9
STA 13+39 MATCH LINE

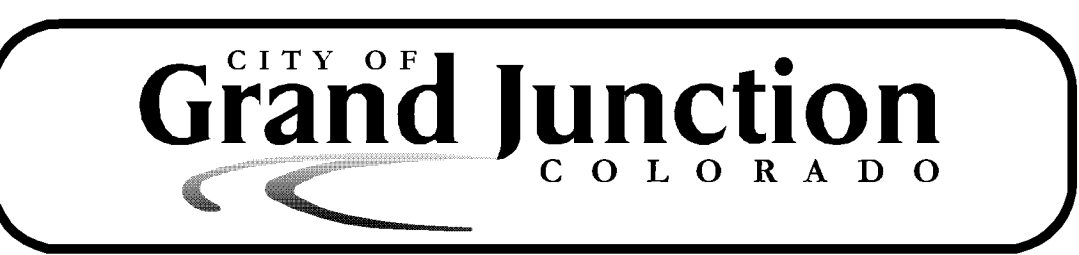
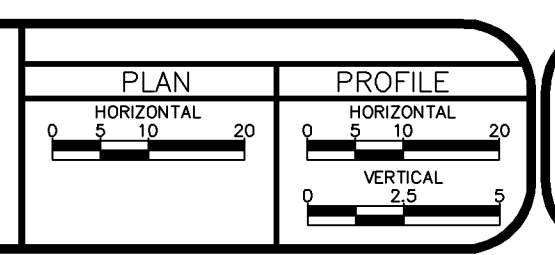


MANHOLE DEFLECTION ANGLES



REVISION	DESCRIPTION	DATE
AS BUILT RECORDS		01-2007

DESIGNED BY	DATE
DRD	2005
CHECKED BY	DATE
DRD	2005
APPROVED BY	DATE

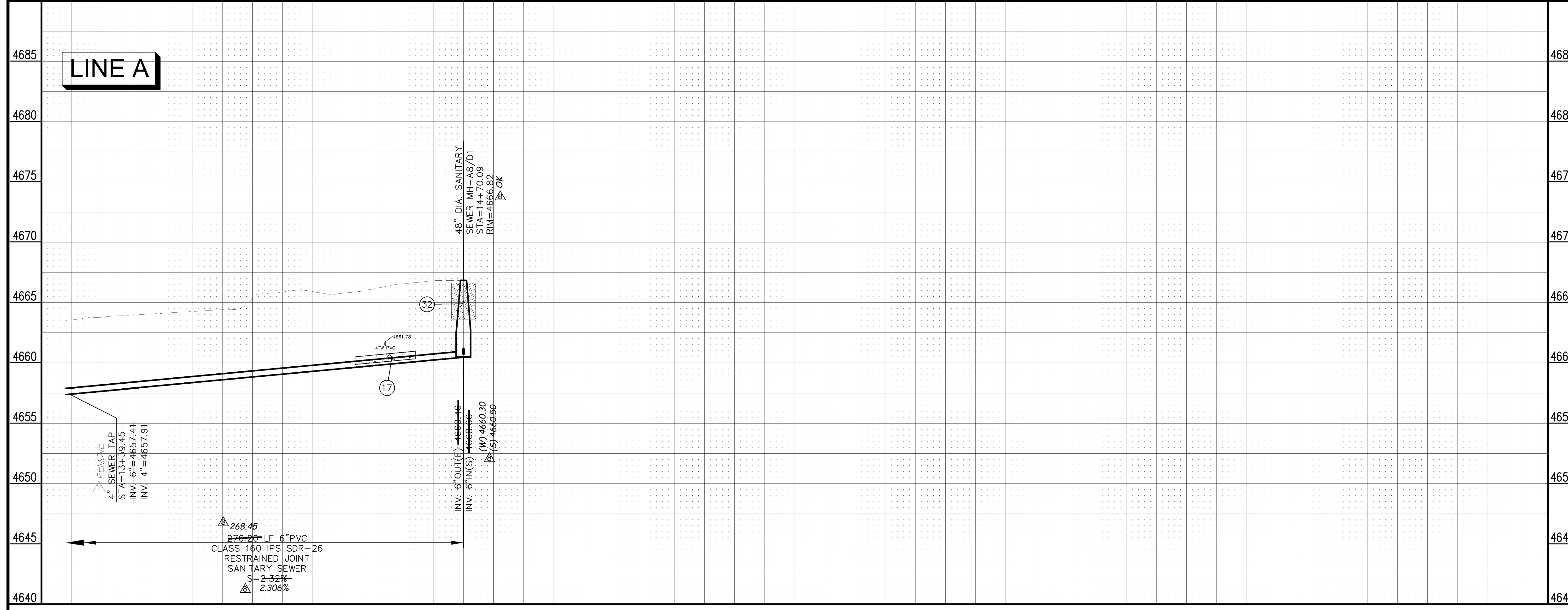
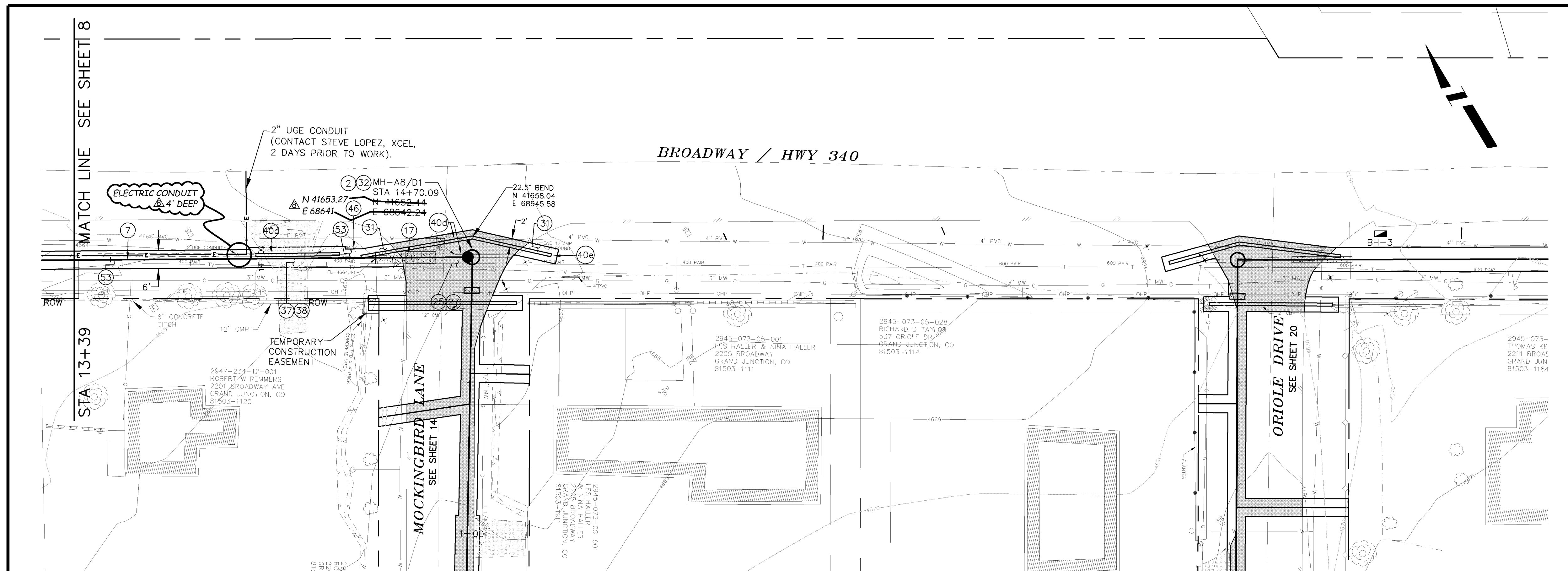


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

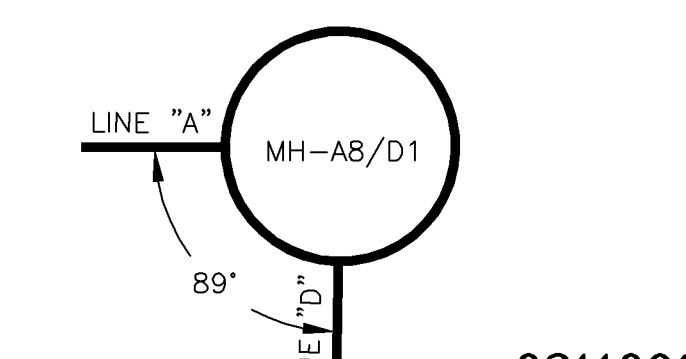
REED MESA SANITARY IMPROVEMENT DISTRICT
LINE A - PLAN AND PROFILE
STA 8+50 TO STA 13+39

CONSTRUCTION NOTES

- ② 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- ⑦ 102.9A - 6" GRAVITY SEWER PIPE (PVC CLASS 160 IPS SDR-26) WITH EBAA IRON SERIES 6500 JOINT RESTRAINTS INSTALLED AS PER MFG. SPECIFICATIONS. INCLUDES TYPE A BEDDING AND HAUNCHING AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING CDOT 703.08 CLASS 2 STRUCTURE BACKFILL.
- ⑨a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- ⑬ 102/103/104 - 4" SEWER SERVICE TAP, 6" IPS SDR-26 X 4" SDR-35, FULL BODY WYE, (SEE STD. DETAIL SS-06). INCLUDES EBAA IRON SERIES 6500 JOINT RESTRAINTS.
- ⑰ 104.4 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL GU-04.
- ⑲ 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- ⑳ 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- ㉑ 304 - 12" CLASS 6 ABC FOR HWY 340 SHOULDER GRAVEL. COMPACT IN 6" LIFTS TO 90% AASHTO T-180. PAID PER TON.
- ㉒ 206.02/206.03 - STRUCTURE BACKFILL (FLOWFILL). PAID PER CY.
- ㉓ 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- ㉔ 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- ④0d 202/102.10 - REMOVE EXISTING STORMWATER/IRRIGATION CULVERT. REPLACE WITH 12" C-900 DR-14. TRENCH WIDTH = OD+12" MIN; =OD+18" MAX. INSTALL TYPE A BEDDING MATERIAL TO SPRINGLINE; FLOWFILL SPRINGLINE TO BASE OF ASPHALT (100 LBS CEMENT/CY); GROUT SEAL/REPAIR AT EXISTING CONCRETE INLET/OUTLET STRUCTURE WHERE PRESENT; INCIDENTAL TO PAY ITEM. SEE CULVERT TABLE, SHEET 5.
- ④0e 213/216 - REGRADE DITCH TO NEW INVERT. 3:1 FLOWLINE SLOPE BETWEEN EXISTING DITCH AND PROPOSED INVERT. 1.5:1 SIDESLOPES BETWEEN EXISTING GROUND AND NEW FLOWLINE. APPLY NATIVE SEED HYDROMULCH, THEN NORTH AMERICAN GREEN C-250 EROSION CONTROL MAT, INSTALLED AS PER MFG. SPECIFICATIONS. SEE DETAIL RMSID -06.
- ④6 210 - RESET POST/SIGN.
- ⑤3 212 - HYDRO-SEED WITH NATIVE SEED MIX.



MANHOLE DEFLECTION ANGLES



02110909.TIF

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A	PRECONSTRUCTION	6/24/05	DAW/TLT	2005
REVISION B	AS BUILT RECORDS	01-2007	DRD	2005

PLAN	PROFILE
HORIZONTAL 0 5 10 20	HORIZONTAL 0 5 10 20
VERTICAL 0 2.5 5	VERTICAL 0 2.5 5



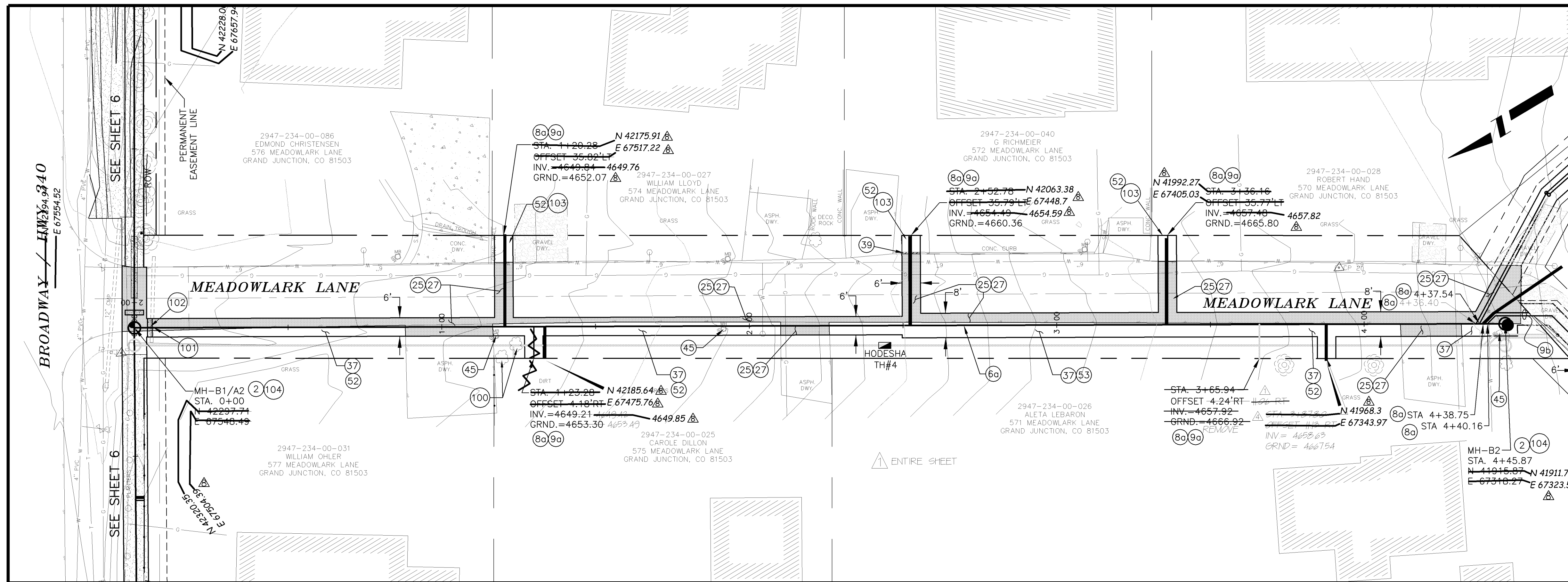
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
LINE A - PLAN AND PROFILE
STA 13+39 TO STA 14+70.09

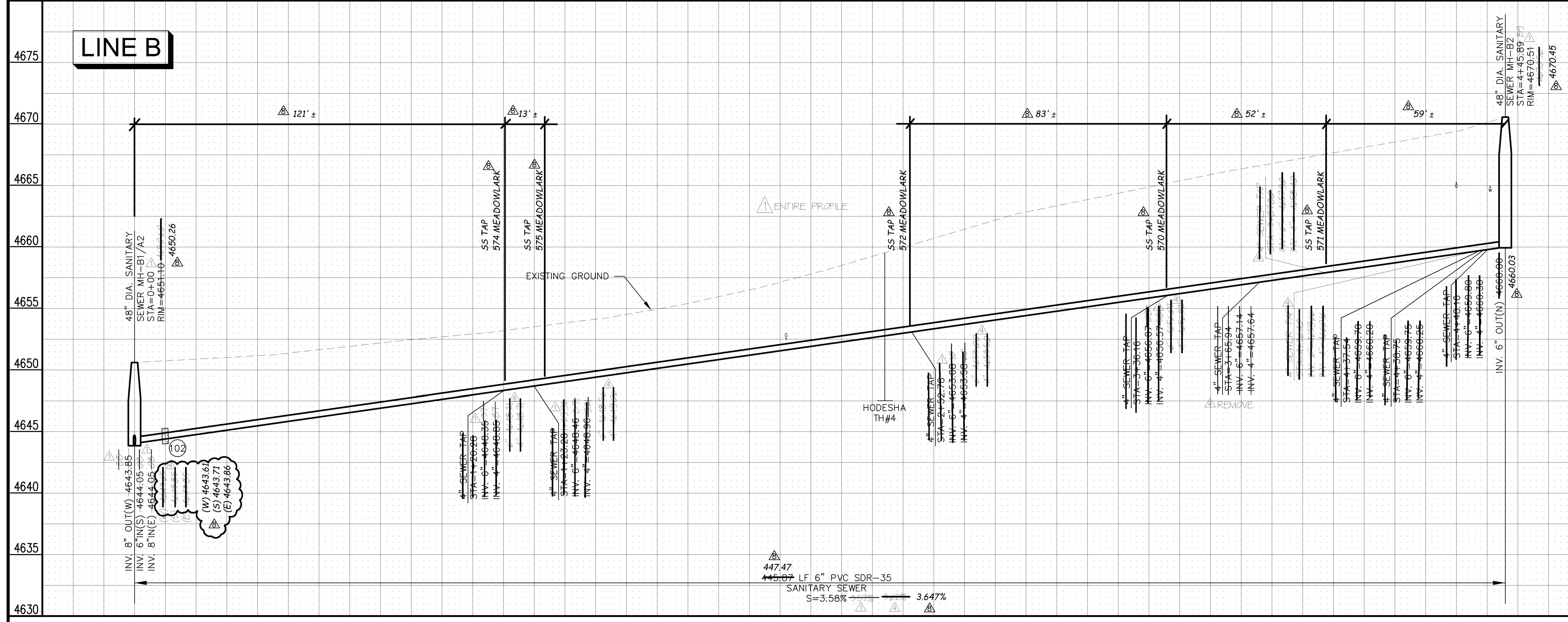
CONSTRUCTION NOTES

- ② 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- ⑥⑥ 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- ⑥⑥ 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- ⑨⑥ 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH. TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- ⑨⑥ 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES TWO SERVICE LINES PER TRENCH. TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- ②⑤ 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- ②⑦ 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- ③⑦ 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- ③⑨ 202/608 - REMOVE AND REPLACE CONCRETE OR ASPHALT CURB AND GUTTER/CURBING/GUTTER/BORDER. SIZE AND STYLE VARY. MATCH EXISTING.
- ④⑤ 210 - RESET MAILBOX.
- ⑤② 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- ⑤③ 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- ①①① PROTECT TREE/BUSH. REFER TO SPECIAL PROVISIONS FOR ROOT TREATMENT.
- ①①① SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2' ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.
- ①①② CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- ①①③ CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.
- ①①④ 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO MANHOLE PAY ITEM.

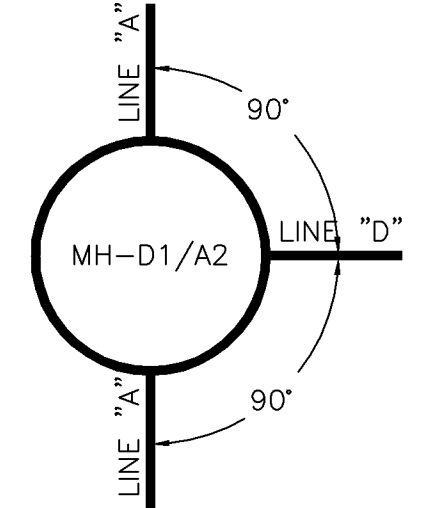
SEE SHEET 11 FOR SERVICES INFORMATION



LINE B



MANHOLE DEFLECTION ANGLES



NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A	APPENDIX #	8/24/05	DAW/TLT	2005
REVISION B	WORK CHANGE REQUEST #	11/22/05	DRD	2005
REVISION C	AS BUILT RECORDS	04-2007	DRD	2005

SCALE	PLAN	PROFILE
HORIZONTAL	1" = 20'	1" = 10'
VERTICAL		1" = 2.5'

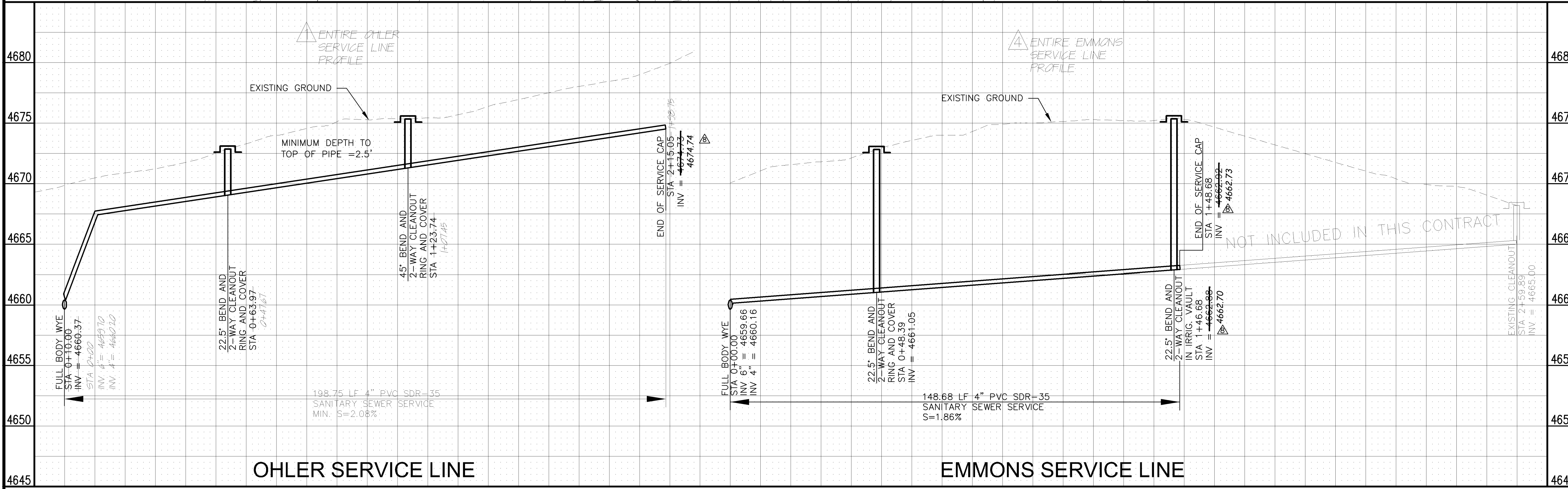
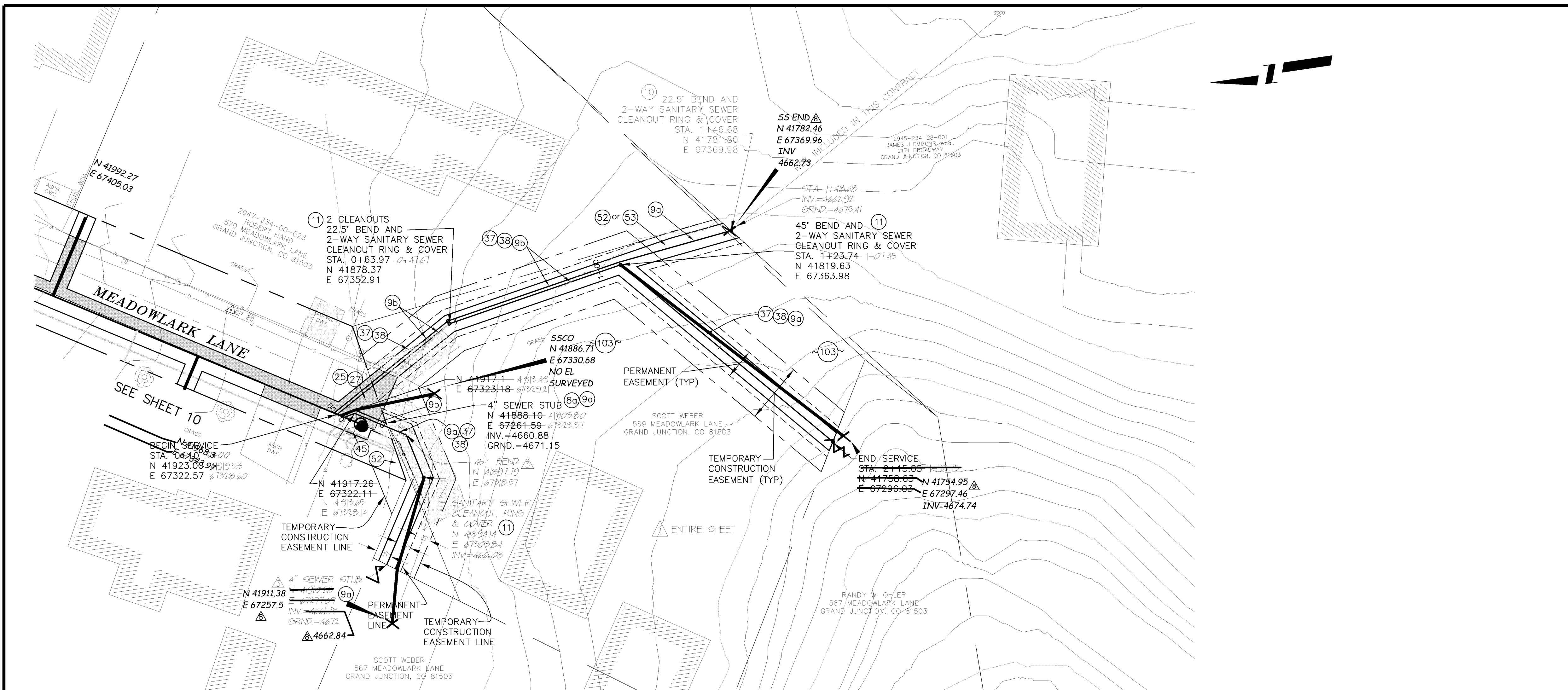
CITY OF **Grand Junction** COLORADO

PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
LINE B - PLAN AND PROFILE
STA 0+00 TO STA 5+00

CONSTRUCTION NOTES

- 8a) 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 9a) 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 9b) 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES TWO SERVICE LINES PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 10) 102.11/108.5 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (OUTSIDE OF R.O.W.). INCLUDES IRRIGATION VALVE BOX.
- 11) 104.2.B - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (WITHIN R.O.W.). INCLUDES CLEANOUT RING AND COVER (SEE STD. DETAIL SS-07).
- 25) 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 27) 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 37) 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 38) 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- 43) 210 - RESET WATER METER AND PIT.
- 45) 210 - RESET MAILBOX.
- 52) 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- 53) 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 103) CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.



REVISION	DESCRIPTION	DATE
REVISION A	APPENDIX #1	8/24/05
REVISION B	PRECONSTRUCTION	3/26/05
REVISION C	PRECONSTRUCTION REV 3	3/15/05
REVISION D	WORK CHANGE REQUEST #1	11/22/05
REVISION E	AS BUILT RECORDS	04-2007

DESIGNED BY	DATE
DRD	2005
CHECKED BY	DATE
DRD	2005
APPROVED BY	DATE

SCALE:
PLAN: 1" = 10'
PROFILE: HORIZONTAL 1" = 10', VERTICAL 1" = 2.5'

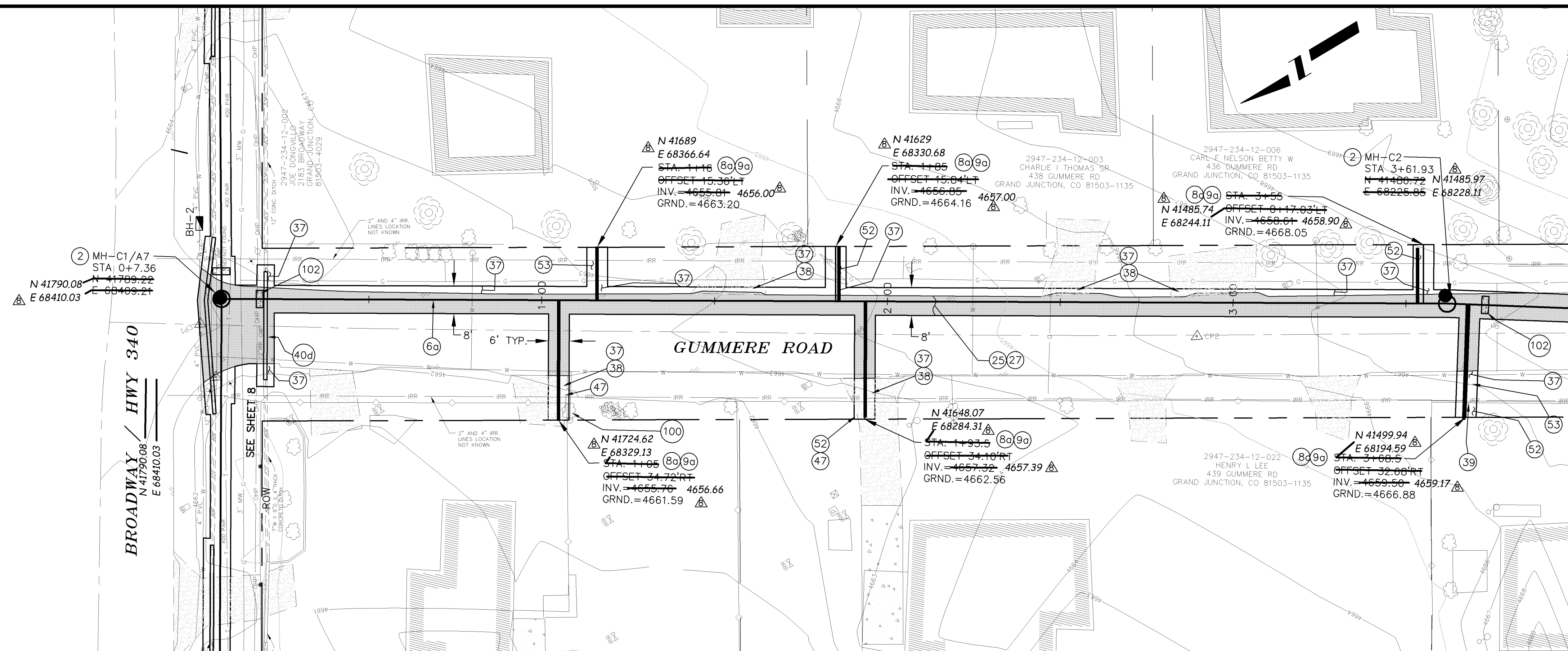


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
 LINE BB - PLAN AND PROFILE
 STA 0+10 TO STA 2+15.05

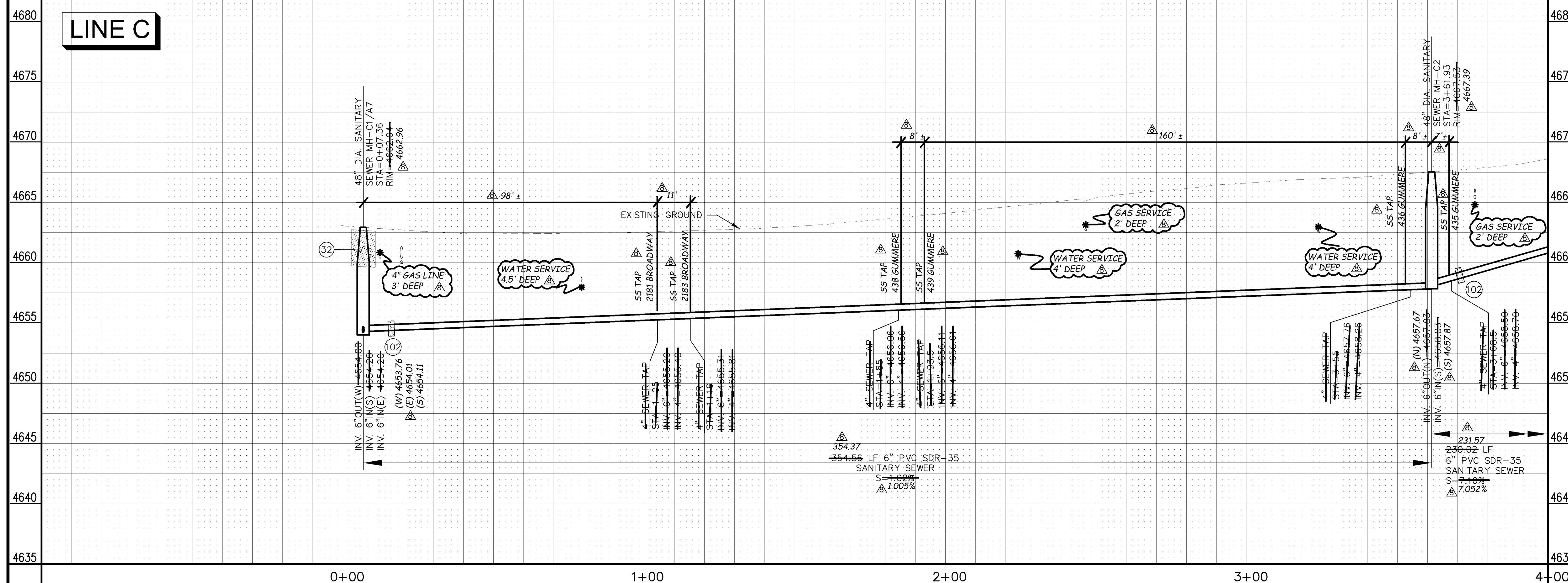
CONSTRUCTION NOTES

- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 6a 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 8a 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 9a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRPAVE, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 38 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- 39 202/608 - REMOVE AND REPLACE CONCRETE OR ASPHALT CURB AND GUTTER/CURBING/GUTTER/BORDER. SIZE AND STYLE VARY. MATCH EXISTING.
- 40d 202/102.10 - REMOVE EXISTING STORMWATER/IRRIGATION CULVERT. REPLACE WITH 12" C-900 DR-14. TRENCH WIDTH = OD+12" MIN; =OD+18" MAX. INSTALL TYPE A BEDDING MATERIAL TO SPRINGLINE; FLOWLINE SPRINGLINE TO BASE OF ASPHALT (100 LBS CEMENT/CY); GROUT SEAL/REPAIR AT EXISTING CONCRETE INLET/OUTLET STRUCTURE WHERE PRESENT; INCIDENTAL TO PAY ITEM. SEE CULVERT TABLE, SHEET 5.
- 47 210 - RESET IRRIGATION SYSTEM COMPONENTS (PER EACH PROPERTY).
- 52 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 100 PROTECT TREE/BUSH. REFER TO SPECIAL PROVISIONS FOR ROOT TREATMENT.
- 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).

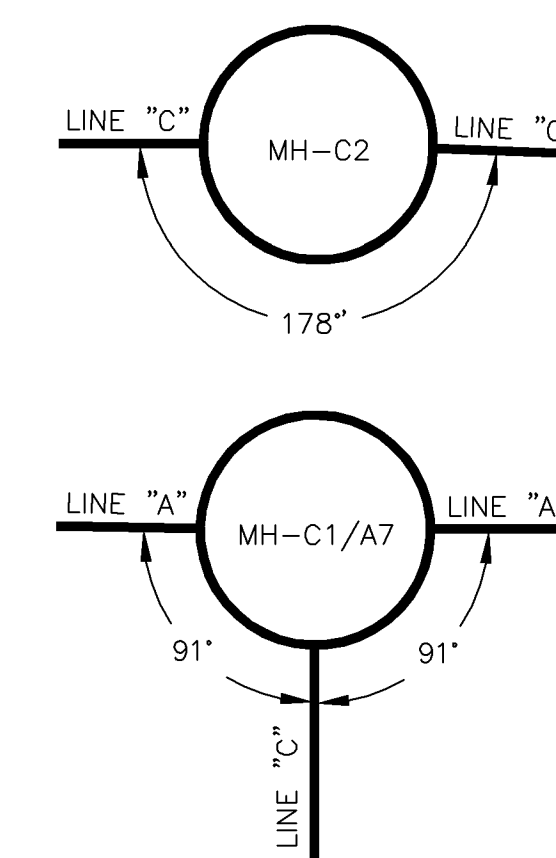


SEE SHEET 13
STA 4+00 MATCH LINE

LINE C



MANHOLE DEFLECTION ANGLES



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
1	AS BUILT RECORDS	04-2007		

SCALE:	PLAN	PROFILE
	1" = 20'	1" = 5'

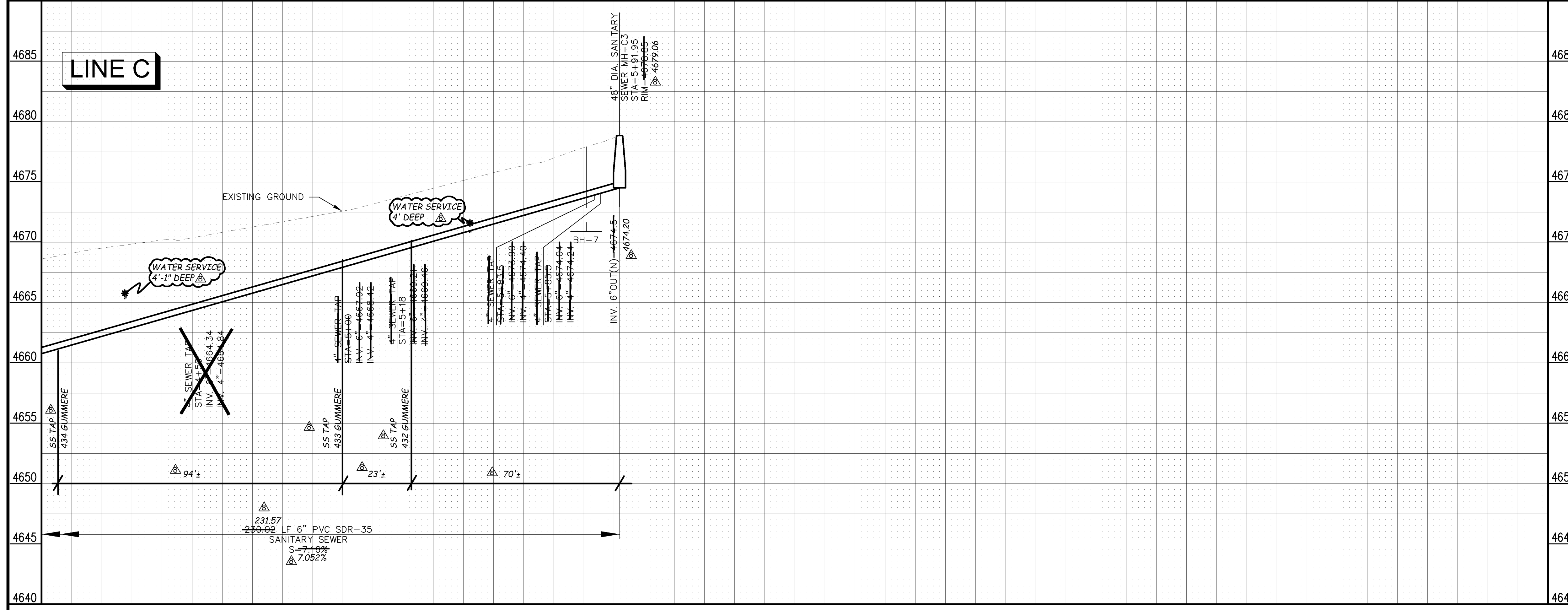
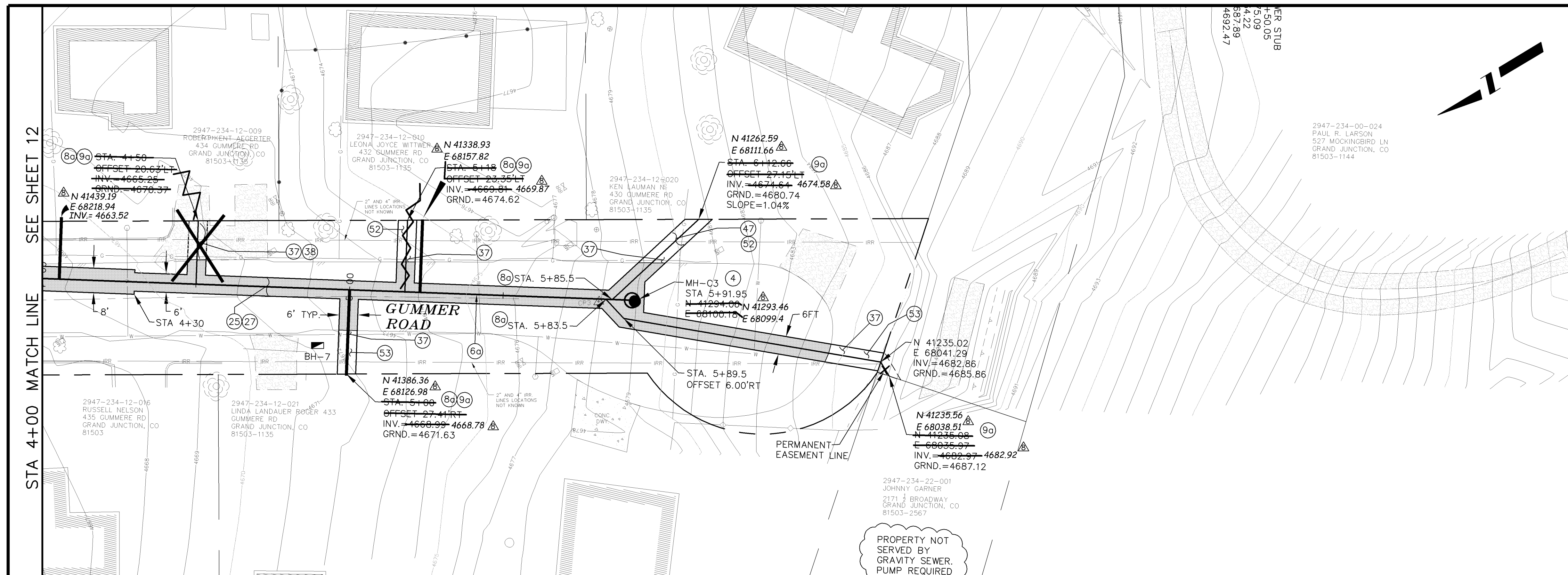


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

**REED MESA SANITARY IMPROVEMENT DISTRICT
LINE C - PLAN AND PROFILE
STA 0+00 TO STA 4+00**

CONSTRUCTION NOTES

- 4 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 6a 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 8a 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 9a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 38 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- 47 210 - RESET IRRIGATION SYSTEM COMPONENTS (PER EACH PROPERTY).
- 52 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A	CHANGE ORDER (THIS SHEET ONLY)	7/25/05	DRD	2005
REVISION B	AS BUILT RECORDS	04-2007	DRD	2005

DATE	DATE	DATE
2005	2005	2005

SCALE:
 PLAN: 1" = 20'
 PROFILE: 1" = 5'

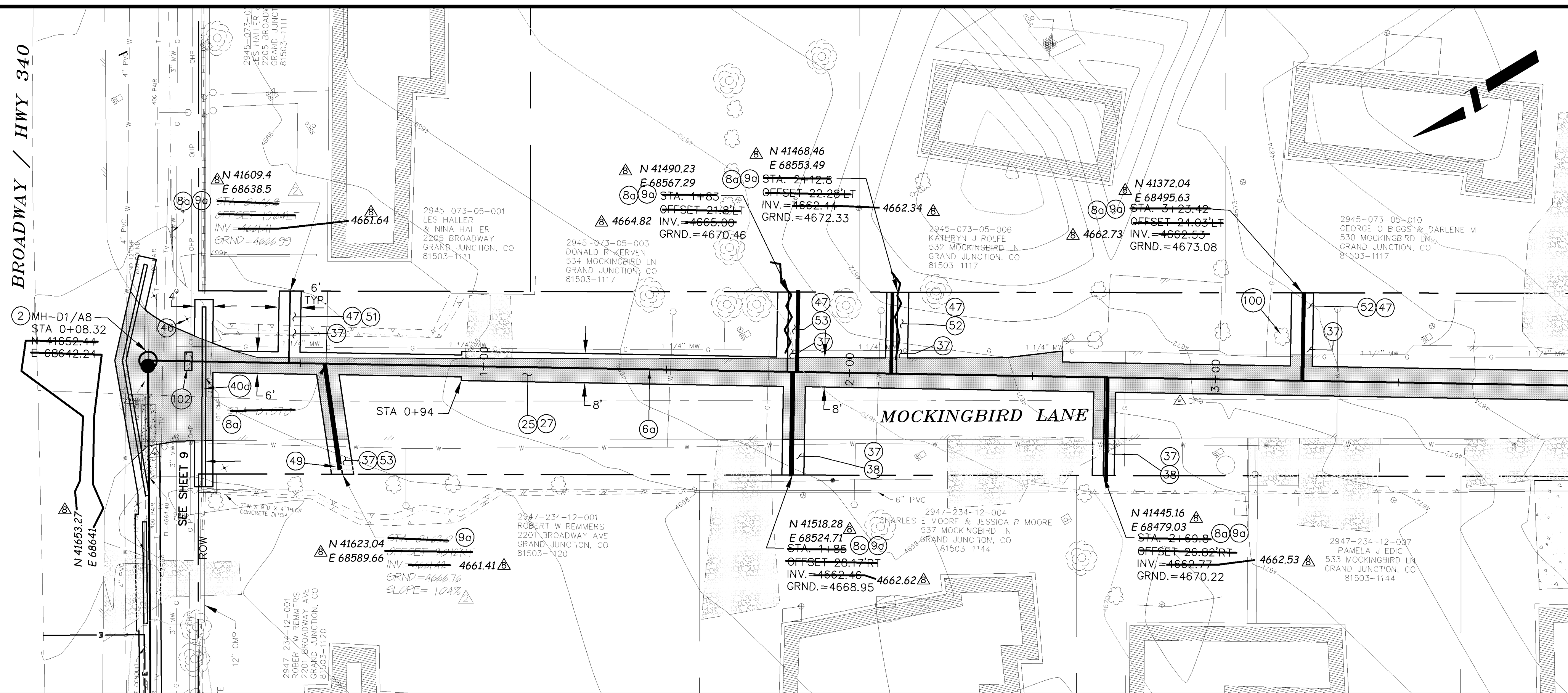
CITY OF Grand Junction COLORADO
 PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
 LINE C - PLAN AND PROFILE
 STA 4+00 TO STA 5+91.87

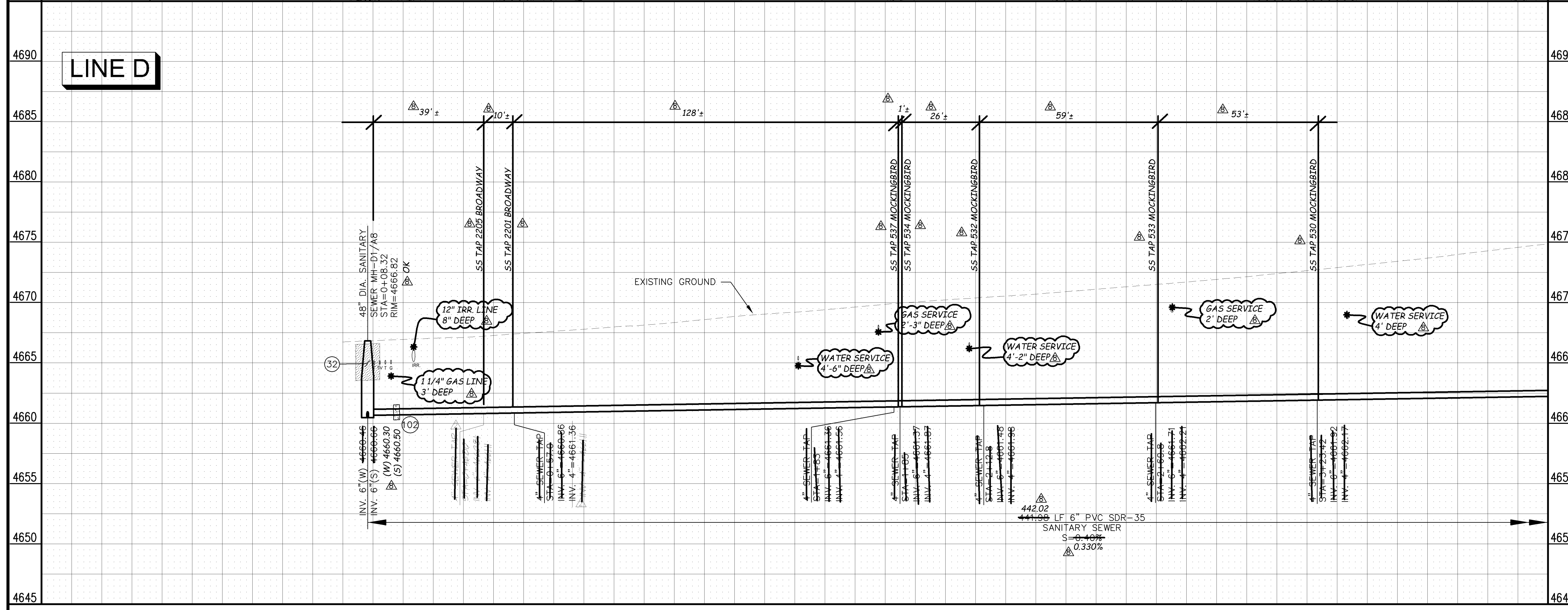
CONSTRUCTION NOTES

- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 6a 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 8a 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 9a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 38 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- 40d 202/102.10 - REMOVE EXISTING STORMWATER/IRRIGATION CULVERT. REPLACE WITH 12" C-900 DR-14. TRENCH WIDTH = OD+12" MIN; =OD+18" MAX. INSTALL TYPE A BEDDING MATERIAL TO SPRINGLINE; FLOWFILL SPRINGLINE TO BASE OF ASPHALT (100 LBS CEMENT/CY); GROUT SEAL/REPAIR AT EXISTING CONCRETE INLET/OUTLET STRUCTURE WHERE PRESENT; INCIDENTAL TO PAY ITEM. SEE CULVERT TABLE, SHEET 5.
- 47 210 - RESET IRRIGATION SYSTEM COMPONENTS (PER EACH PROPERTY).
- 49 RESET WOOD BORDER.
- 51 207 - TOPSOIL, 12" THICK. REUSE EXISTING IF STOCKPILED, KEPT FREE OF DETRITUS, AND APPROVED BY INSPECTOR/ENGINEER.
- 52 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 100 PROTECT TREE/BUSH. REFER TO SPECIAL PROVISIONS FOR ROOT TREATMENT.
- 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).

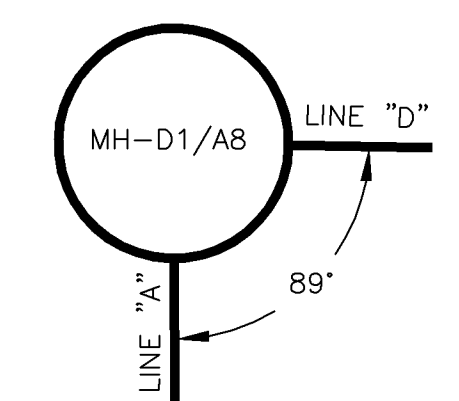
SEE SHEET 15
STA 4+00 MATCH LINE



LINE D



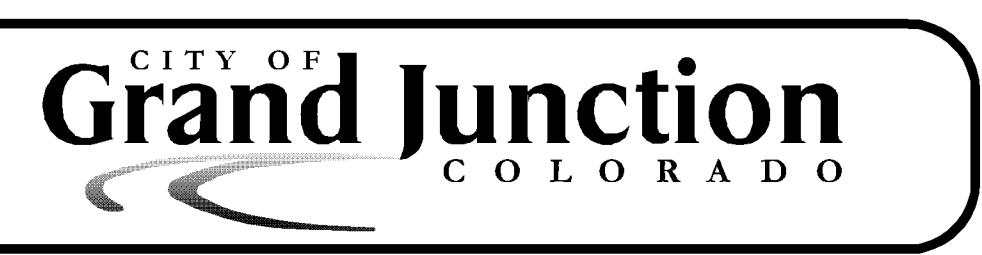
MANHOLE DEFLECTION ANGLES



02110914.TIF

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A	PRECONSTRUCTION	3/26/05	DRD	2005
REVISION B	AS BUILT RECORDS	04-2007	DRD	2005

SCALE:	PLAN	PROFILE
	1" = 20'	1" = 5'

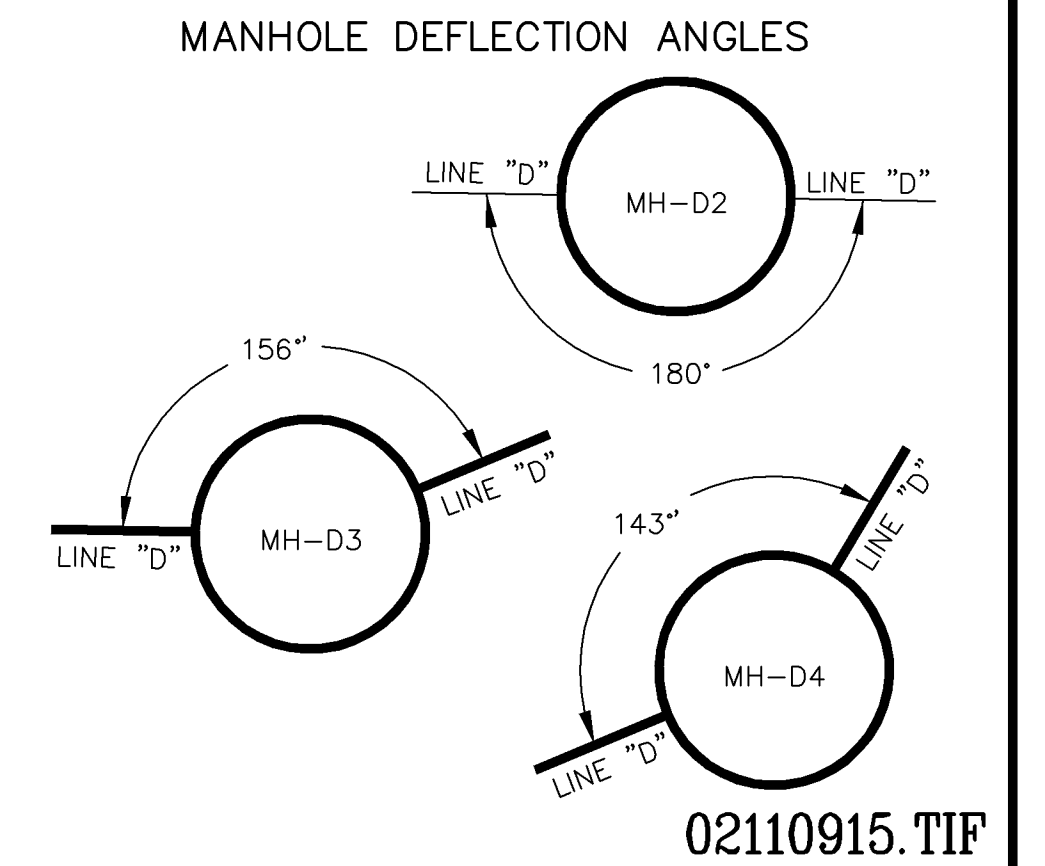
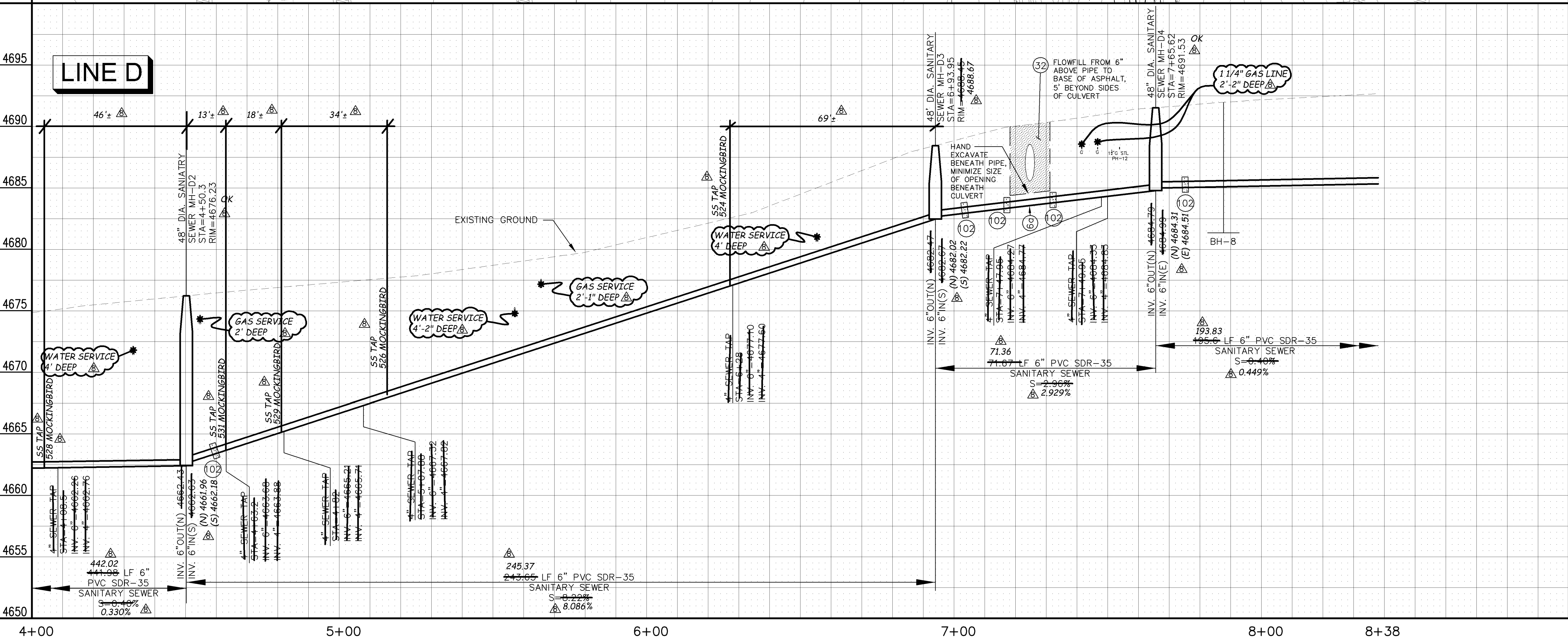
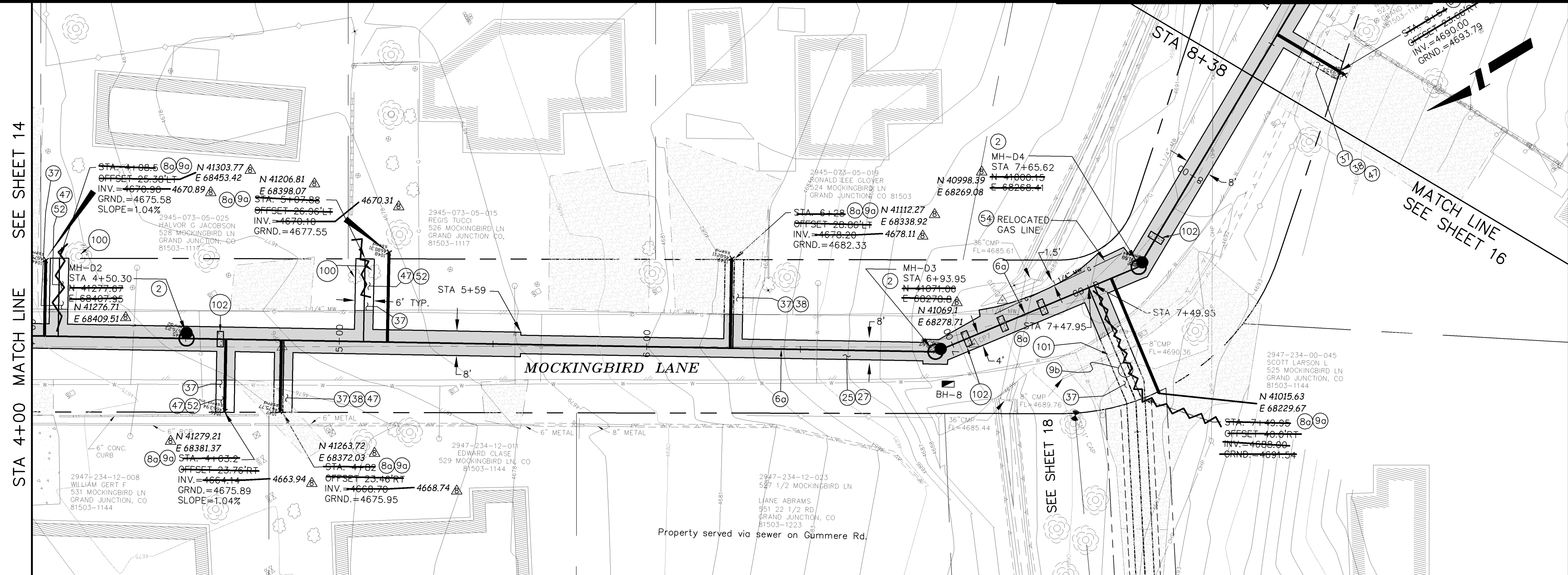


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

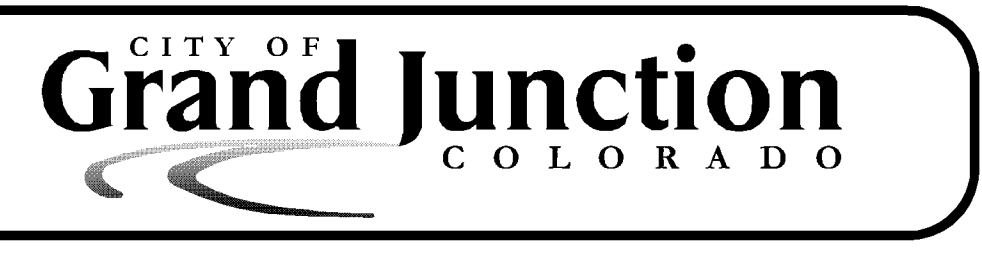
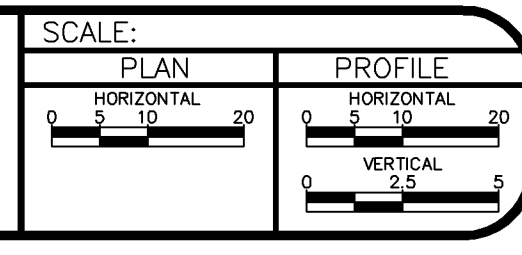
REED MESA SANITARY IMPROVEMENT DISTRICT
LINE D - PLAN AND PROFILE
STA 0+08.32 TO STA 4+00

CONSTRUCTION NOTES

- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 6a 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 8a 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 9a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 9b 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES TWO SERVICE LINES PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 11 104.2.B - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (WITHIN R.O.W.). INCLUDES CLEANOUT RING AND COVER (SEE STD. DETAIL SS-07).
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 32 206.02/206.03 - STRUCTURE BACKFILL (FLOWFILL). PAID PER CY.
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 38 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- 47 210 - RESET IRRIGATION SYSTEM COMPONENTS (PER EACH PROPERTY).
- 52 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- 54 203.02/103.16 - EXCAVATE, BED, AND BACKFILL WITH MATERIALS MEETING 103.15 AND 103.16 FOR UTILITY RELOCATIONS WHICH REQUIRE EXCAVATION BEYOND THAT REQUIRED FOR SEWER INSTALLATION. MUST BE APPROVED BY ENGINEER OR INSPECTOR IF NOT SPEC'D ON PLANS. TRENCH DEPTH SHALL BE 24 INCHES UNLESS DIRECTED OTHERWISE BY ENGINEER OR INSPECTOR. NOTIFY UTILITY THREE DAYS IN ADVANCE. ACTUAL UTILITY RELOCATION BY OTHERS.
- 100 PROTECT TREE/BUSH. REFER TO SPECIAL PROVISIONS FOR ROOT TREATMENT.
- 101 SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2' ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.
- 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- 110 INSTALL SANITARY SEWER WARNING TAPE, 6" - 12" ABOVE TOP OF SERVICE. INCIDENTAL TO COST OF SERVICE INSTALLATION.



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
1	AS BUILT RECORDS	04-2007	DAW/TLT	2005
2			DRD	2005
3			DRD	2005
4				

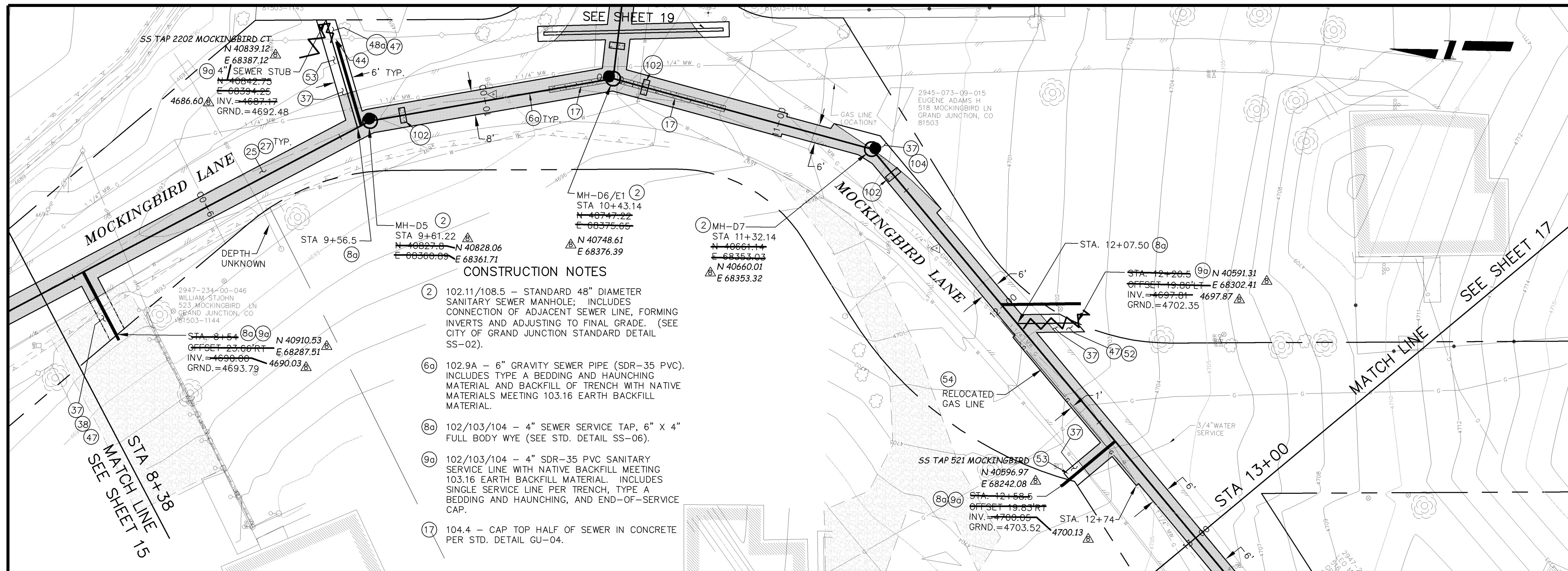


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

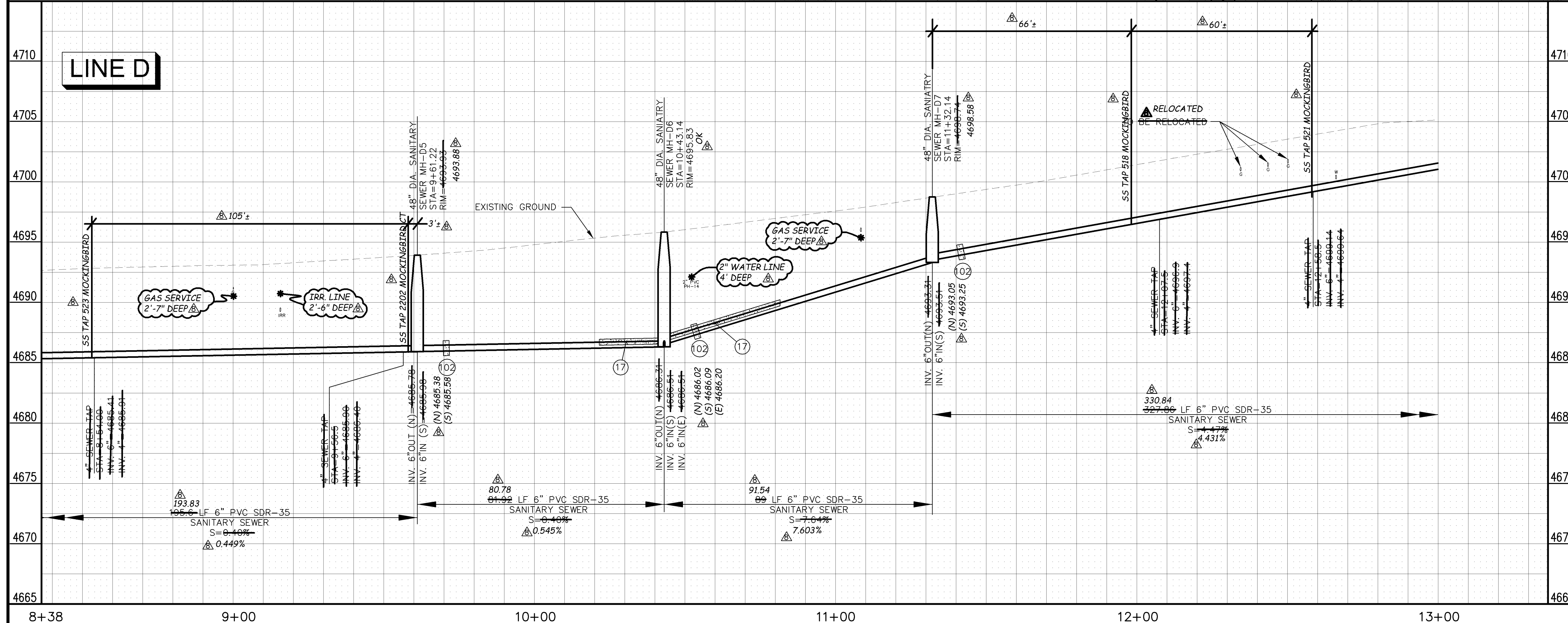
REED MESA SANITARY IMPROVEMENT DISTRICT
LINE D - PLAN AND PROFILE
STA 4+00 TO STA 8+38

CONSTRUCTION NOTES

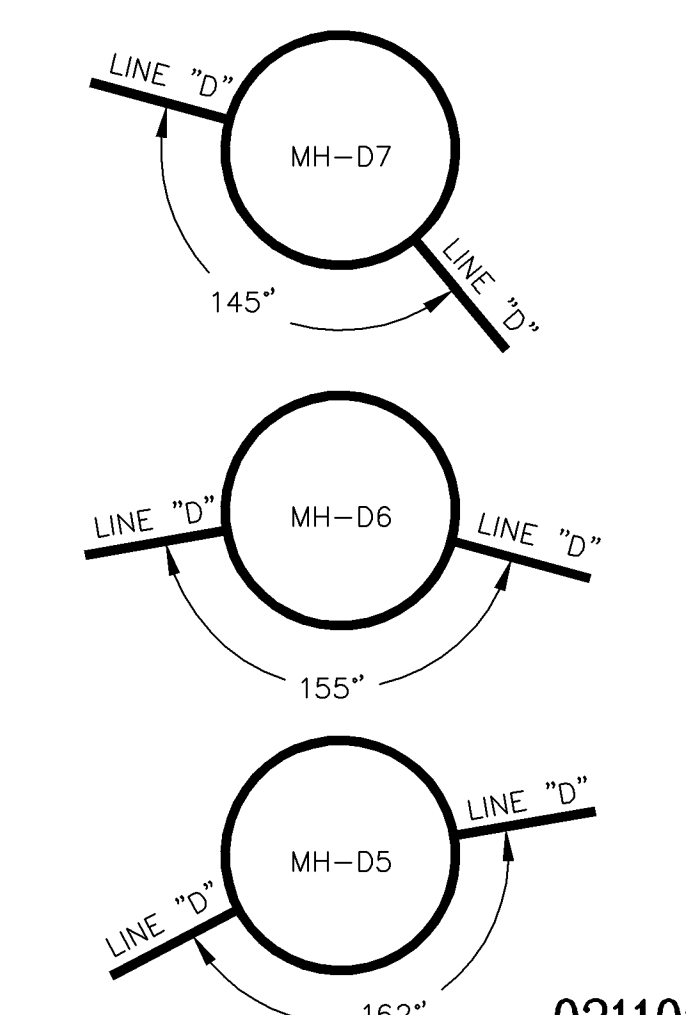
- (25) 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- (27) 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- (37) 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- (38) 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- (44) 210 - RESET FENCE (ALL TYPES).
- (45) 210 - RESET MAILBOX.
- (47) 210 - RESET IRRIGATION SYSTEM COMPONENTS (PER EACH PROPERTY).
- (48a) 210 - RESET LANDSCAPE APPURTENANCES (DECORATIVE ROCK, WOOD CHIPS, TREE BARK). MATCH EXISTING W/ MIN THICKNESS = 2". REUSE EXISTING IF KEPT FREE OF FINES/DETRITUS. LANDSCAPING FABRIC REQUIRED AND INCIDENTAL TO PAY ITEM. PAID PER SY.
- (52) 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- (53) 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- (54) 203.02/103.16 - EXCAVATE, BED, AND BACKFILL WITH MATERIALS MEETING 103.15 AND 103.16 FOR UTILITY RELOCATIONS WHICH REQUIRE EXCAVATION BEYOND THAT REQUIRED FOR SEWER INSTALLATION. MUST BE APPROVED BY ENGINEER OR INSPECTOR IF NOT SPEC'D ON PLANS. TRENCH DEPTH SHALL BE 24 INCHES UNLESS DIRECTED OTHERWISE BY ENGINEER OR INSPECTOR. NOTIFY UTILITY THREE DAYS IN ADVANCE. ACTUAL UTILITY RELOCATION BY OTHERS.
- (102) CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- (104) 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO MANHOLE PAY ITEM.



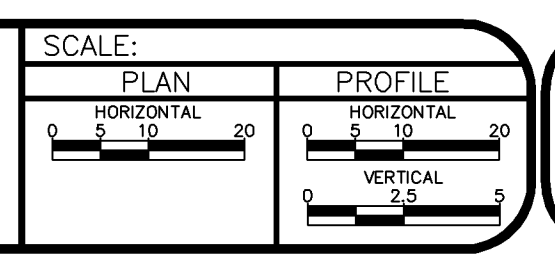
- CONSTRUCTION NOTES**
- (2) 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - (6a) 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - (8a) 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
 - (9a) 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
 - (17) 104.4 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL GU-04.



MANHOLE DEFLECTION ANGLES



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	2005
REVISION A			DAW/TLT	DATE	2005
REVISION B			DRD	DATE	2005
REVISION C			DRD	DATE	2005
REVISION D	AS BUILT RECORDS	04-2007		DATE	

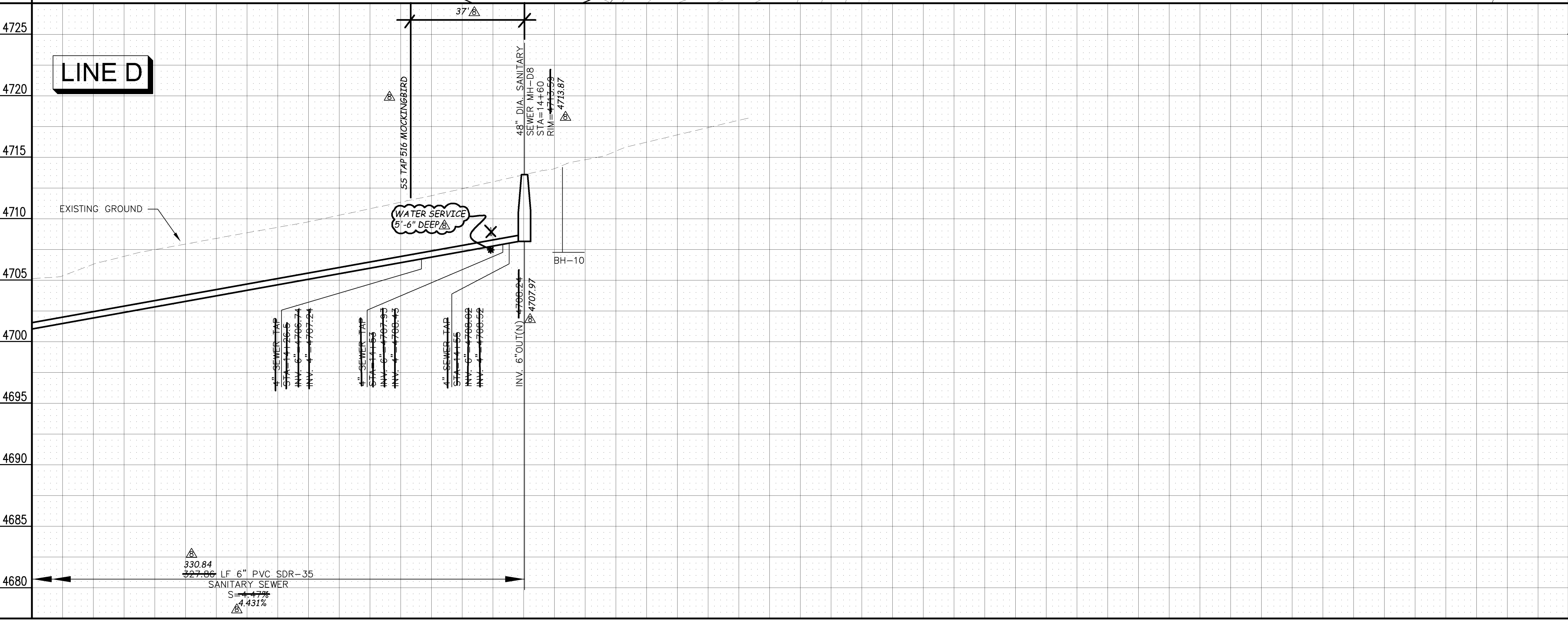
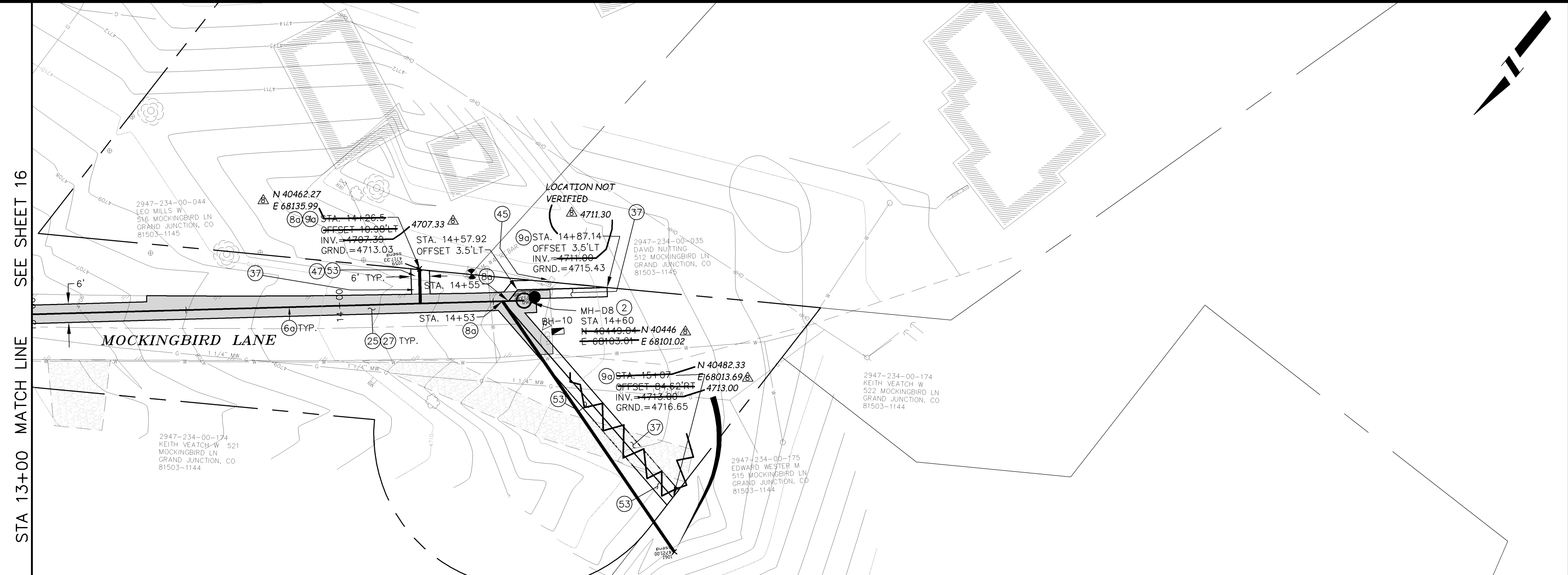


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
 LINE D - PLAN AND PROFILE
 STA 8+38 TO STA 13+00

CONSTRUCTION NOTES

- ② 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- ⑥② 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- ⑥③ 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- ⑥④ 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- ②⑤ 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- ②⑦ 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- ③⑦ 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- ④⑤ 210 - RESET MAILBOX.
- ④⑦ 210 - RESET IRRIGATION SYSTEM COMPONENTS (PER EACH PROPERTY).
- ⑤③ 212 - HYDRO-SEED WITH NATIVE SEED MIX.



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION 1			DAW/TLT	2005
REVISION 2			DRD	2005
REVISION 3			DRD	2005
REVISION 4	AS BUILT RECORDS	04-2007		

SCALE:	PLAN	PROFILE
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	HORIZONTAL	HORIZONTAL
		VERTICAL
		2.5

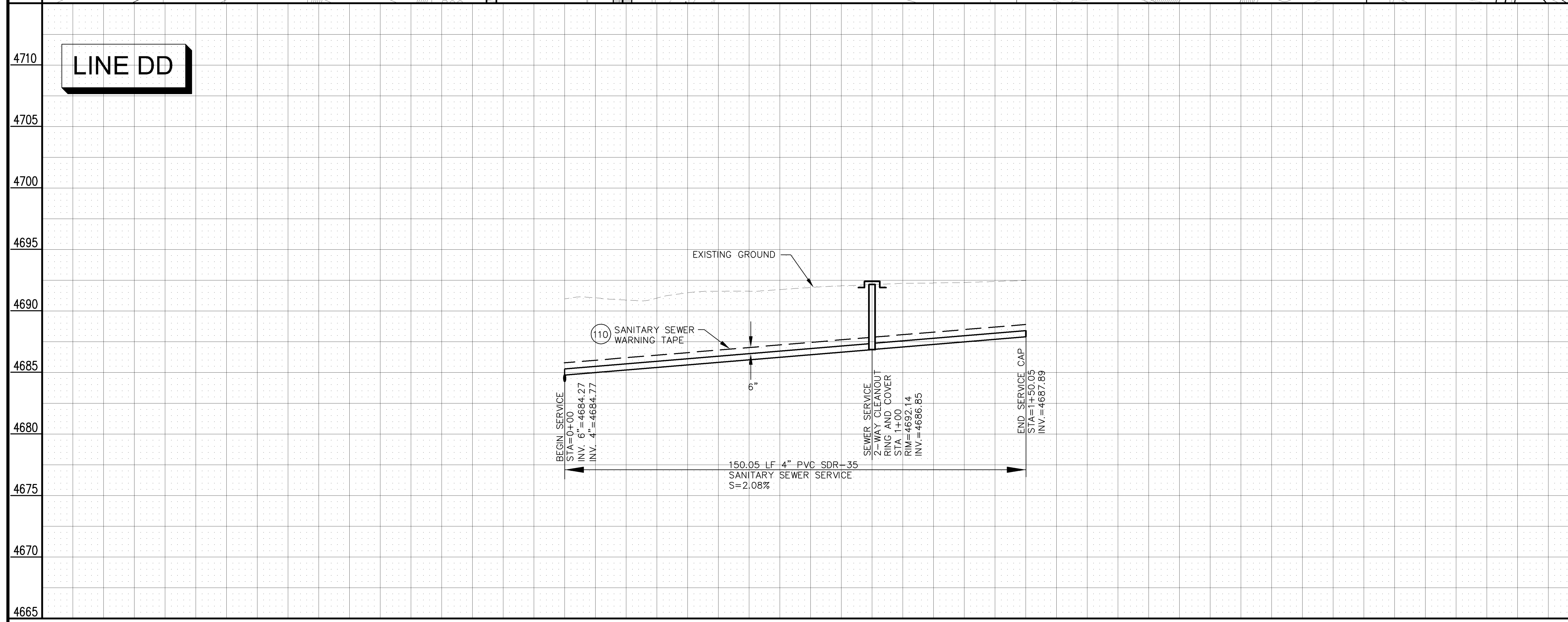
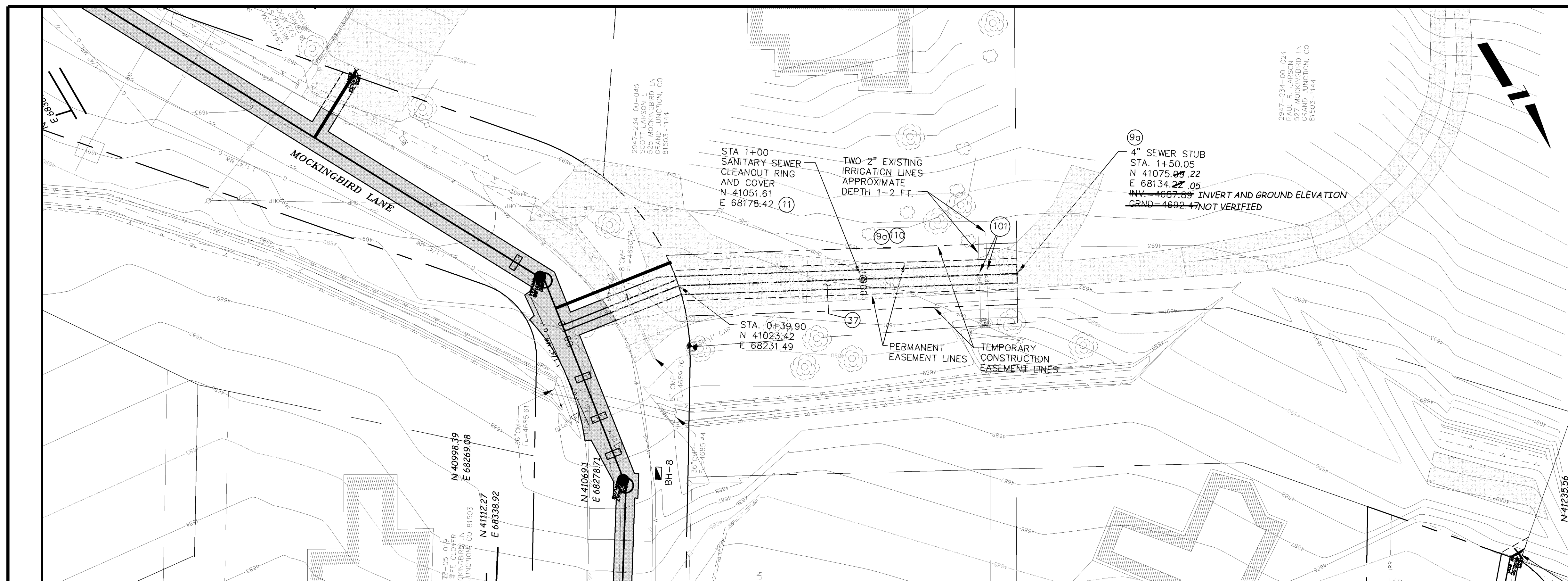


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
LINE D - PLAN AND PROFILE
STA 13+00 TO STA 14+60

CONSTRUCTION NOTES

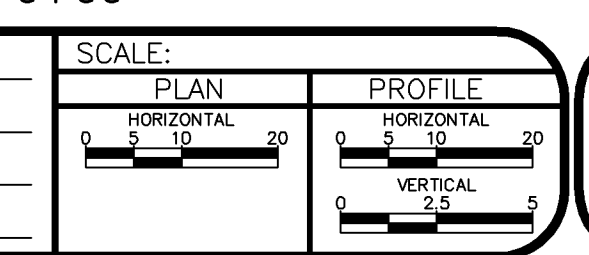
- 90a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 11 104.2.B - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (WITHIN R.O.W.). INCLUDES CLEANOUT RING AND COVER (SEE STD. DETAIL SS-07).
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 101 SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2' ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.
- 110 INSTALL SANITARY SEWER WARNING TAPE, 6" - 12" ABOVE TOP OF SERVICE. INCIDENTAL TO COST OF SERVICE INSTALLATION.



LINE DD

REVISION	DESCRIPTION	DATE
AS BUILT RECORDS		04-2007

DESIGNED BY	DRD	DATE	2005
CHECKED BY	DRD	DATE	2005
APPROVED BY		DATE	

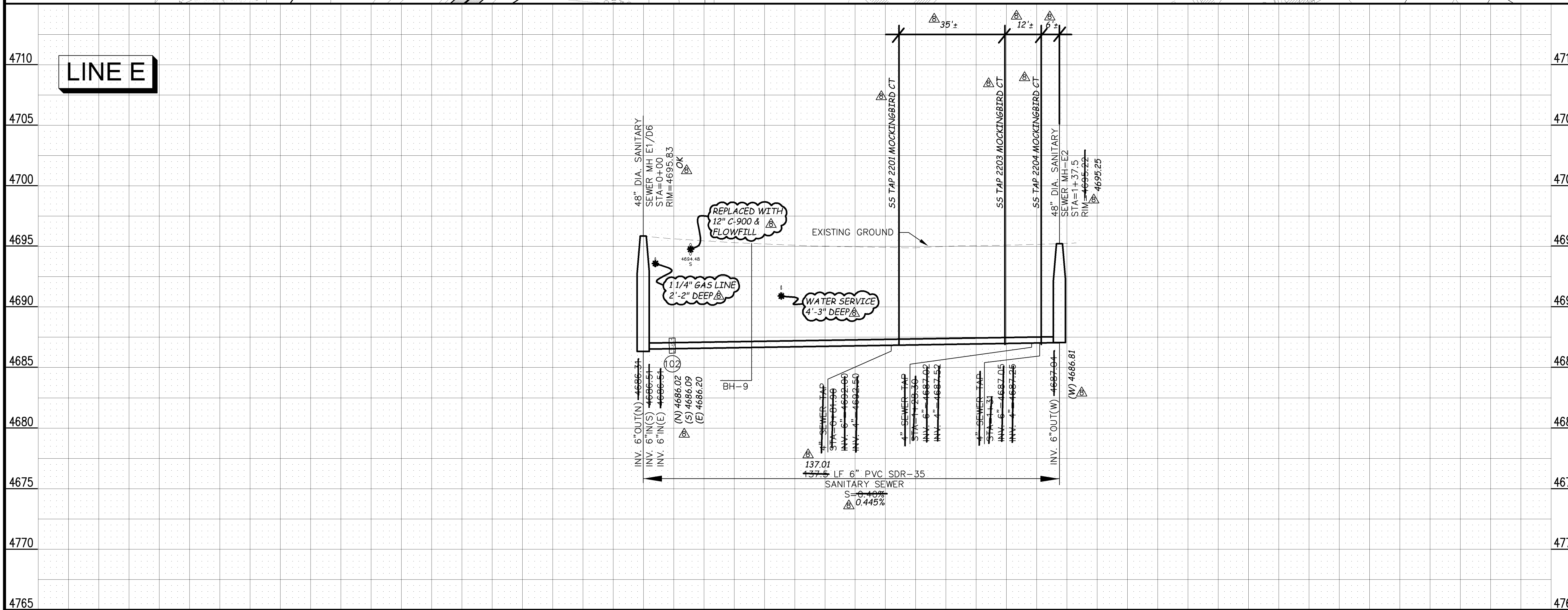
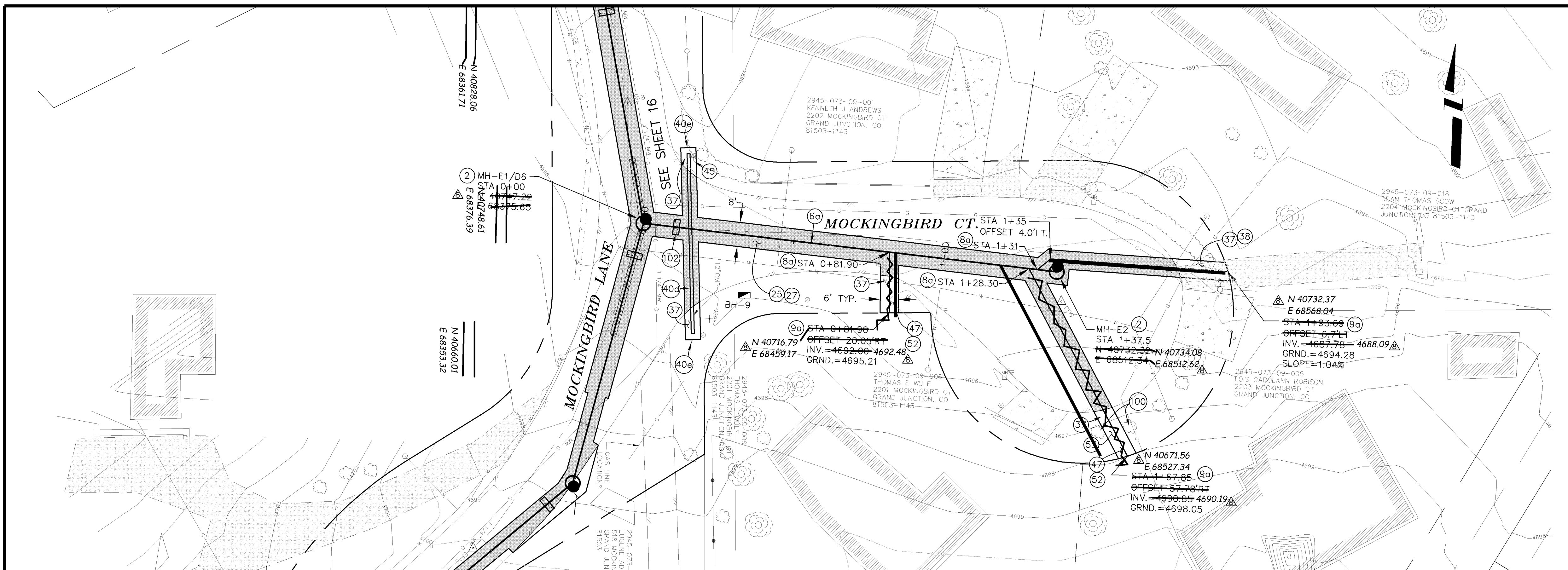


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
 LINE "DD" - PLAN AND PROFILE
 STA 0+00 TO STA 1+50.05

CONSTRUCTION NOTES

- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 6a 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 8a 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 9a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 38 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- 40d 202/102.10 - REMOVE EXISTING STORMWATER/IRRIGATION CULVERT. REPLACE WITH 12" C-900 DR-14. TRENCH WIDTH = OD+12" MIN; =OD+18" MAX. INSTALL TYPE A BEDDING MATERIAL TO SPRINGLINE; FLOWFILL SPRINGLINE TO BASE OF ASPHALT (100 LBS CEMENT/CY); GROUT SEAL/REPAIR AT EXISTING CONCRETE INLET/OUTLET STRUCTURE WHERE PRESENT; INCIDENTAL TO PAY ITEM. SEE CULVERT TABLE, SHEET 5.
- 40e 213/216 - REGRADE DITCH TO NEW INVERT. 3:1 FLOWLINE SLOPE BETWEEN EXISTING DITCH AND PROPOSED INVERT. 1.5:1 SIDESLOPES BETWEEN EXISTING GROUND AND NEW FLOWLINE. APPLY NATIVE SEED HYDROMULCH, THEN NORTH AMERICAN GREEN C-250 EROSION CONTROL MAT, INSTALLED AS PER MFG. SPECIFICATIONS. SEE DETAIL RMSID -06.
- 45 210 - RESET MAILBOX.
- 47 210 - RESET IRRIGATION SYSTEM COMPONENTS (PER EACH PROPERTY).
- 52 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 100 PROTECT TREE/BUSH. REFER TO SPECIAL PROVISIONS FOR ROOT TREATMENT.
- 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE:
REVISION 1	AS BUILT RECORDS	04-2007	DAW/TLT	2005	PLAN: 1" = 10'
REVISION 2			DRD	2005	PROFILE: 1" = 2'
REVISION 3			DRD	2005	
REVISION 4					



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
LINE E - PLAN AND PROFILE
STA 0+00 TO STA 1+37.50

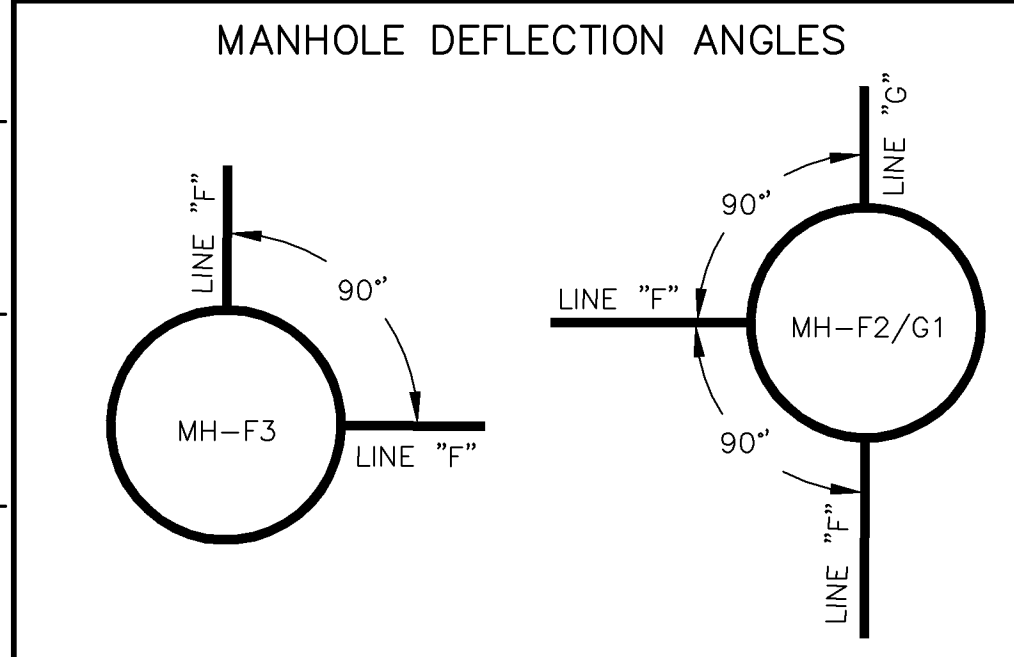
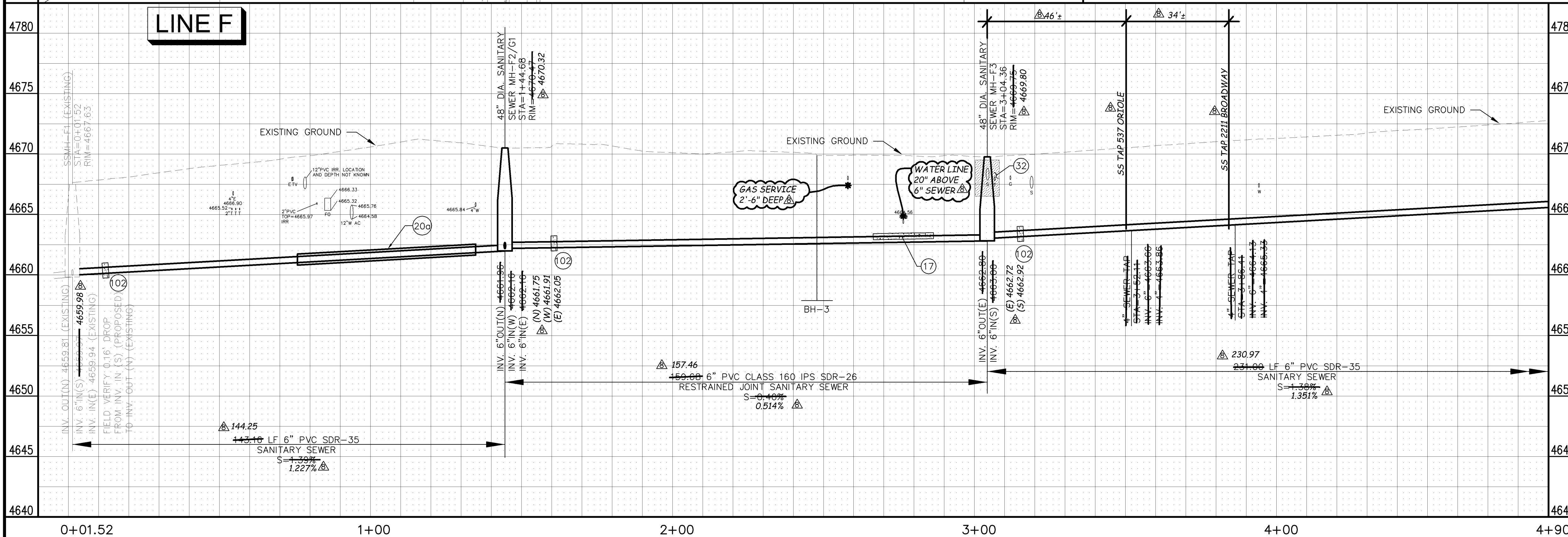
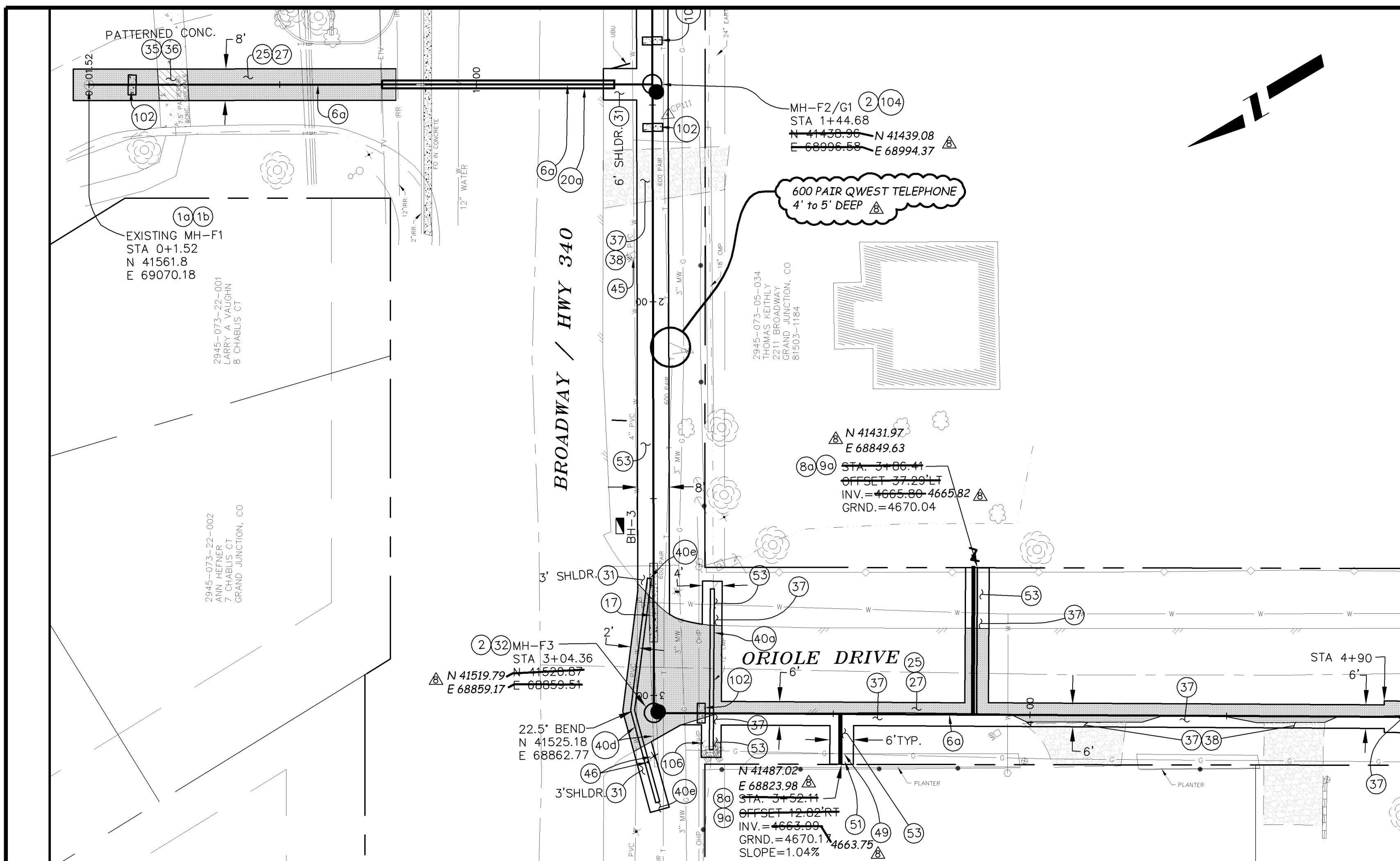
CONSTRUCTION NOTES

- 31) 304 - 12" CLASS 6 ABC FOR HWY 340 SHOULDER GRAVEL. COMPACT IN 6" LIFTS TO 90% AASHTO T-180. PAID PER TON.
- 32) 206.02/206.03 - STRUCTURE BACKFILL (FLOWFILL). PAID PER CY.
- 35) 202 - REMOVE CONCRETE PAVEMENT.
- 36) 412 - REPLACE CONCRETE DRIVEWAY SECTION (6" THICK).
- 37) 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180
- 38) 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- 40d) 202/102.10 - REMOVE EXISTING STORMWATER/IRRIGATION CULVERT. REPLACE WITH 12" C-900 DR-14. TRENCH WIDTH = OD+12" MIN; =OD+18" MAX. INSTALL TYPE A BEDDING MATERIAL TO SPRINGLINE; FLOWFILL SPRINGLINE TO BASE OF ASPHALT (100 LBS CEMENT/CY); GROUT SEAL/REPAIR AT EXISTING CONCRETE INLET/OUTLET STRUCTURE WHERE PRESENT; INCIDENTAL TO PAY ITEM. SEE CULVERT TABLE, SHEET 5.
- 40e) 213/216 - REGRADE DITCH TO NEW INVERT. 3:1 FLOWLINE SLOPE BETWEEN EXISTING DITCH AND PROPOSED INVERT. 1.5:1 SIDESLOPES BETWEEN EXISTING GROUND AND NEW FLOWLINE. APPLY NATIVE SEED HYDROMULCH, THEN NORTH AMERICAN GREEN C-250 EROSION CONTROL MAT, INSTALLED AS PER MFG. SPECIFICATIONS. SEE DETAIL RMSID -06.
- 45) 210 - RESET MAILBOX.
- 49) 210 - RESET WOOD BORDER.
- 51) 207 - TOPSOIL, 12" THICK. REUSE EXISTING IF STOCKPILED, KEPT FREE OF DETRITUS, AND APPROVED BY INSPECTOR/ENGINEER
- 53) 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 102) CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- 104) 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO MANHOLE PAY ITEM.
- 106) PROTECT/STABILIZE POLE, POST, SIGN.

CONSTRUCTION NOTES

- 1a) 102.11-CONNECT TO EXISTING MANHOLE AS PER STD. DETAIL SS-04, SS-08.
- 1b) 102.11/102.14 - RE-CONSTRUCT MANHOLE BENCH AND INVERT IN EXISTING MANHOLE. USE ALL-CRETE 5-MINUTE SET (FOSTROC INC.) OR EQUIVALENT FOR INVERT FINISHING.
- 2) 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 6a) 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 8a) 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 9a) 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 17) 104.4 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL GU-04.
- 20a) 102/103/104 - INSTALL 6" GRAVITY SEWER PIPE (SDR-35 PVC) IN 10" CLASS 200 CASING PIPE (PVC, HDPE, OR STEEL) VIA HORIZONTAL DIRECTIONAL DRILLING.
- 25) 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 26) 103.3 - ASPHALT REMOVAL FOR T-TOP PATCHING OF HWY. 340 (MILLING): REMOVE ASPHALT AND FLOWFILL BY MILLING.
- 27) 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 29) 103.18/401 - PAVEMENT REPLACEMENT ON HWY 340: HOT BITUMINOUS PAVEMENT, GRADING SX SUPERPAVE 75-GYRATION, BINDER GRADE PG 64-28.

STA 4+90 MATCH LINE SEE SHEET 21



02110920.TIF

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION			DAW/TLT	2005
REVISION			DRD	2005
REVISION			DRD	2005
REVISION	AS BUILT RECORDS	04-2007		

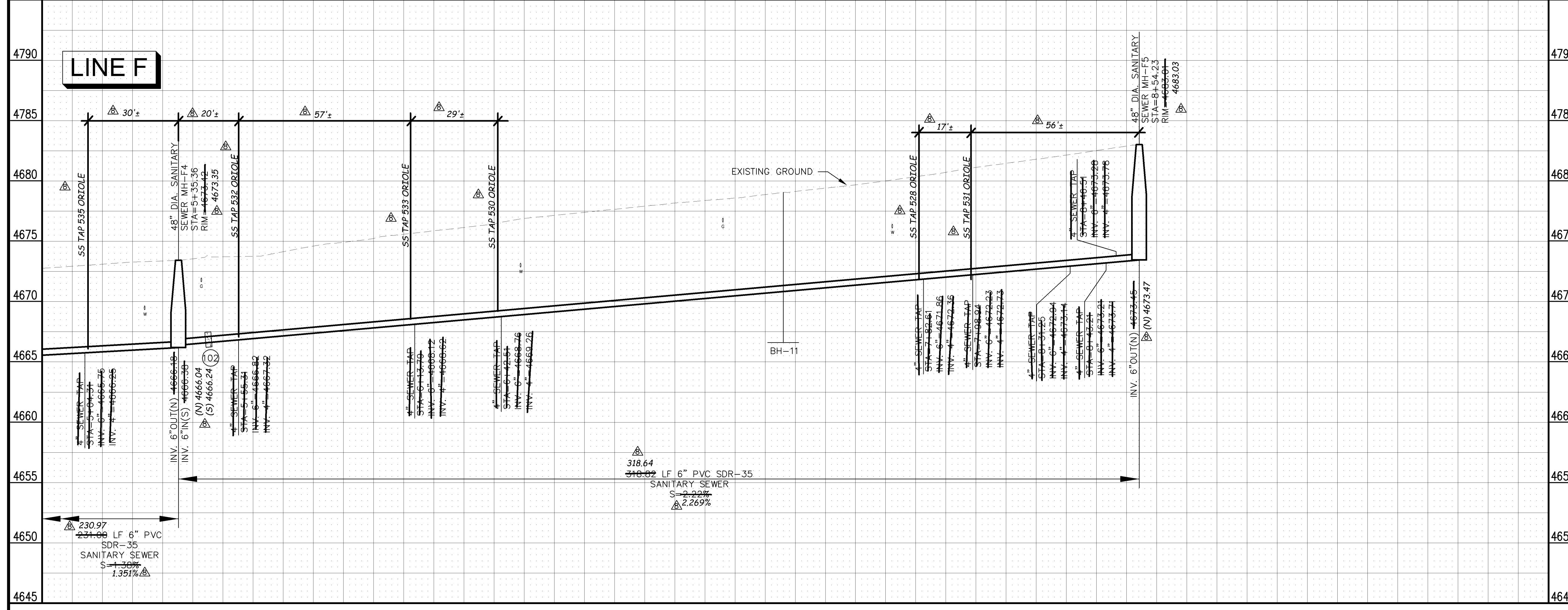
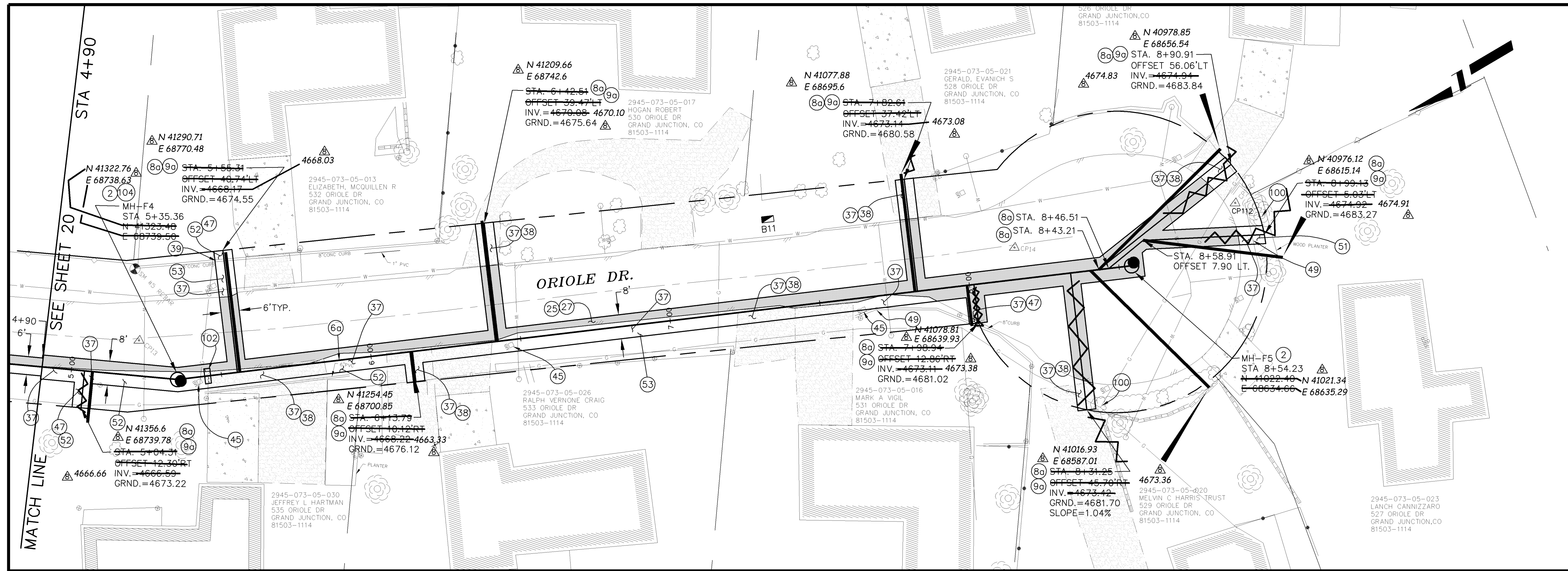
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	VERTICAL 0 2.5 5	



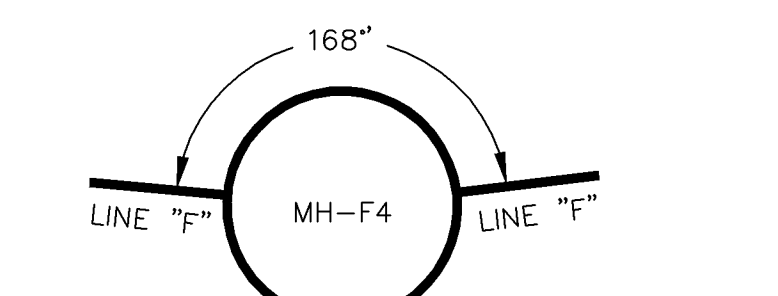
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
LINE F - PLAN AND PROFILE
STA 0+01.47 TO STA 4+90

- (6a) 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (8a) 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- (9a) 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- (25) 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- (27) 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- (37) 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- (38) 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- (39) 202/608 - REMOVE AND REPLACE CONCRETE OR ASPHALT CURB AND GUTTER/CURBING/GUTTER/BORDER. SIZE AND STYLE VARY. MATCH EXISTING.
- (45) 210 - RESET IRRIGATION SYSTEM COMPONENTS (PER EACH PROPERTY).
- (47) 210 - RESET MAILBOX.
- (49) 210 - RESET WOOD BORDER.
- (51) 207 - TOPSOIL, 12" THICK. REUSE EXISTING IF STOCKPILED, KEPT FREE OF DETRITUS, AND APPROVED BY INSPECTOR/ENGINEER.
- (52) 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- (53) 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- (100) PROTECT TREE/BUSH. REFER TO SPECIAL PROVISIONS FOR ROOT TREATMENT.
- (102) CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- (104) 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO MANHOLE PAY ITEM.



MANHOLE DEFLECTION ANGLES



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
AS BUILT RECORDS		04-2007		

DATE	DATE	DATE	DATE
2005	2005	2005	2005

SCALE: PLAN 1" = 20', PROFILE 1" = 5'

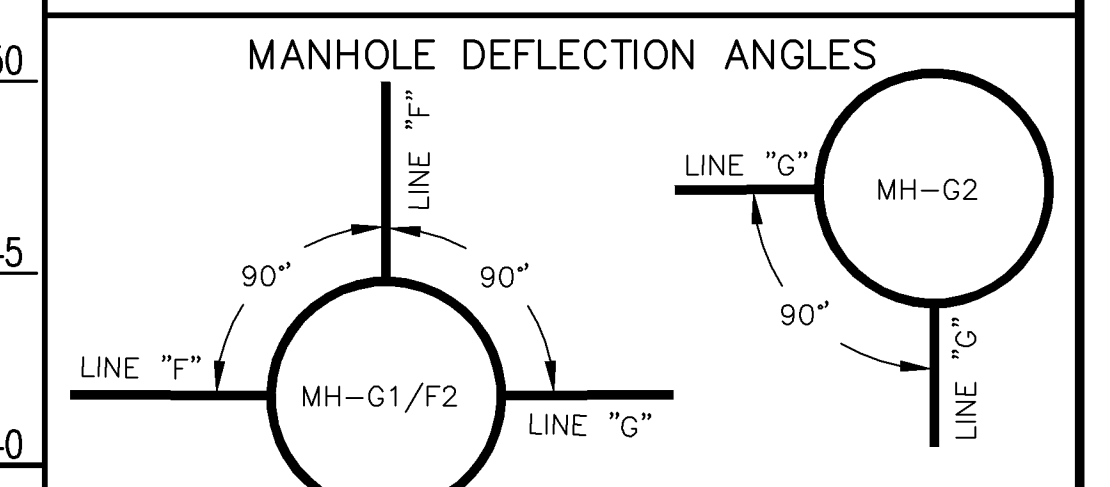
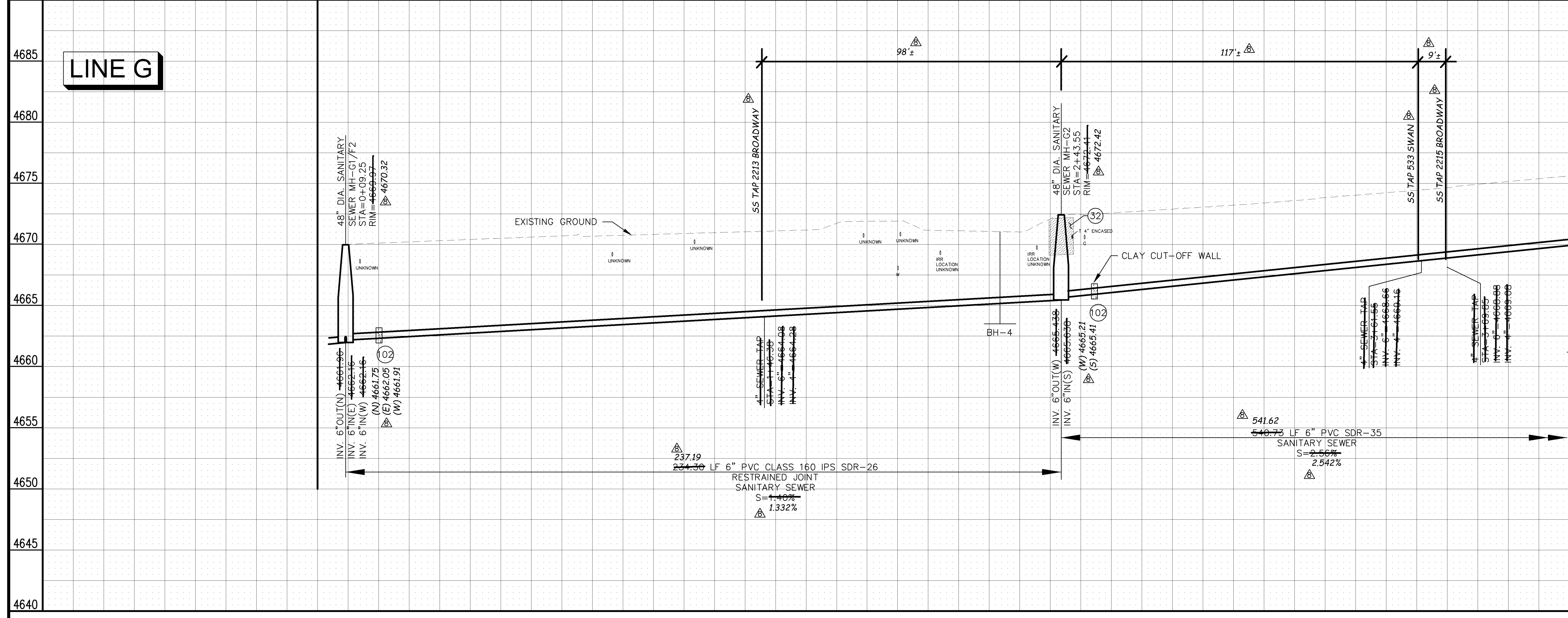
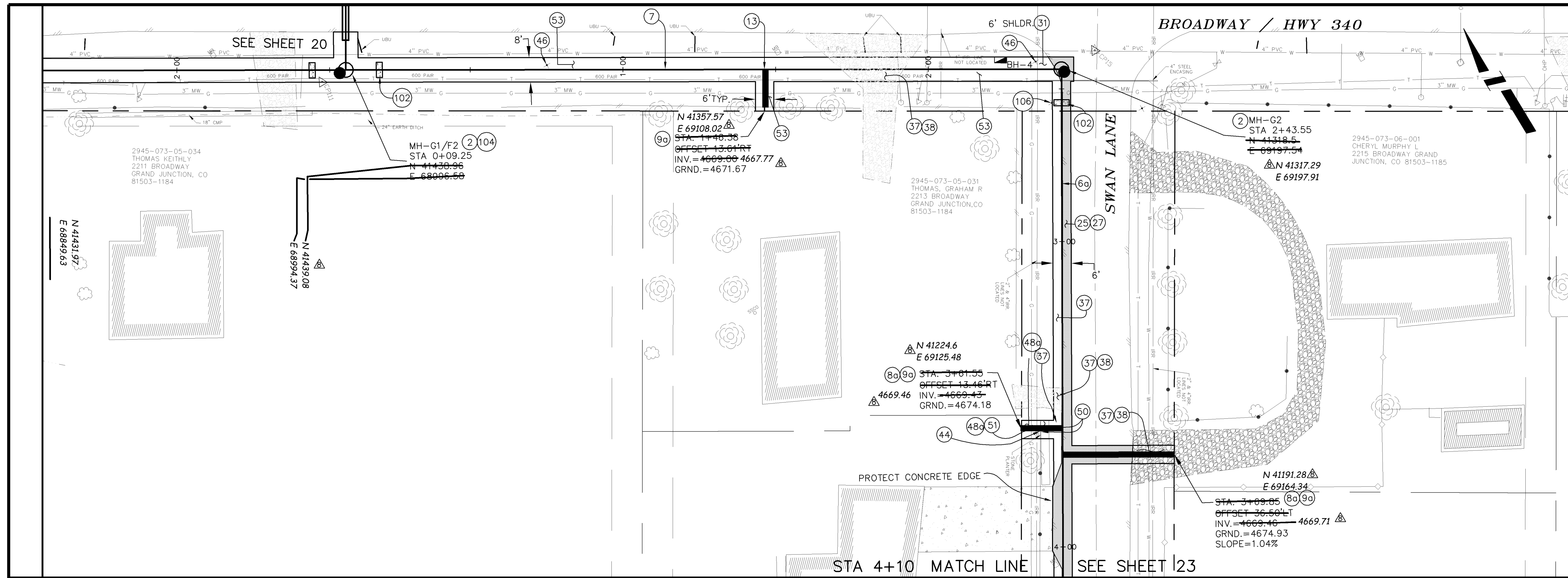
CITY OF Grand Junction COLORADO

PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
 LINE F - PLAN AND PROFILE
 STA 4+90 TO STA 8+54.18

CONSTRUCTION NOTES

- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 6a 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 7 102.9A - 6" GRAVITY SEWER PIPE (PVC CLASS 160 IPS SDR-26) WITH EBAA IRON SERIES 6500 JOINT RESTRAINTS INSTALLED AS PER MFG. SPECIFICATIONS. INCLUDES TYPE A BEDDING AND HAUNCHING AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING CDOT 703.08 CLASS 2 STRUCTURE BACKFILL.
- 8a 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 9a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 13 102/103/104 - 4" SEWER SERVICE TAP, 6" IPS SDR-26 X 4" SDR-35, FULL BODY WYE, (SEE STD. DETAIL SS-06). INCLUDES EBAA IRON SERIES 6500 JOINT RESTRAINTS.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 31 304 - 12" CLASS 6 ABC FOR HWY 340 SHOULDER GRAVEL. COMPACT IN 6" LIFTS TO 90% AASHTO T-180. PAID PER TON.
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 38 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- 44 210 - RESET FENCE (ALL TYPES). (ALL TYPES).
- 46 210 - RESET POST/SIGN.
- 48a 210 - RESET LANDSCAPE APPURTENANCES (DECORATIVE ROCK, WOOD CHIPS, TREE BARK). MATCH EXISTING W/ MIN THICKNESS = 2". REUSE EXISTING IF KEPT FREE OF FINES/DETRITUS. LANDSCAPING FABRIC REQUIRED AND INCIDENTAL TO PAY ITEM. PAID PER SY.
- 50 210 - RESET STONE/ROCK/BRICK/MASONRY BORDER.
- 51 207 - TOPSOIL, 12" THICK. REUSE EXISTING IF STOCKPILED, KEPT FREE OF DETRITUS, AND APPROVED BY INSPECTOR/ENGINEER
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- 104 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO MANHOLE PAY ITEM.
- 106 PROTECT/STABILIZE POLE, POST, SIGN.



	0+09.25	1+00	2+00	3+00	4+00
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REVISION	DESCRIPTION	DATE	DRAWN BY	DAW/TLT	DATE
REVISION A			DESIGNED BY	DRD	DATE 2005
REVISION B			CHECKED BY	DRD	DATE 2005
REVISION C	AS BUILT RECORDS	04-2007	APPROVED BY		DATE

SCALE:

PLAN	PROFILE
HORIZONTAL 0 5 10 20	HORIZONTAL 0 5 10 20
	VERTICAL 0 2.5 5

CITY OF Grand Junction
COLORADO

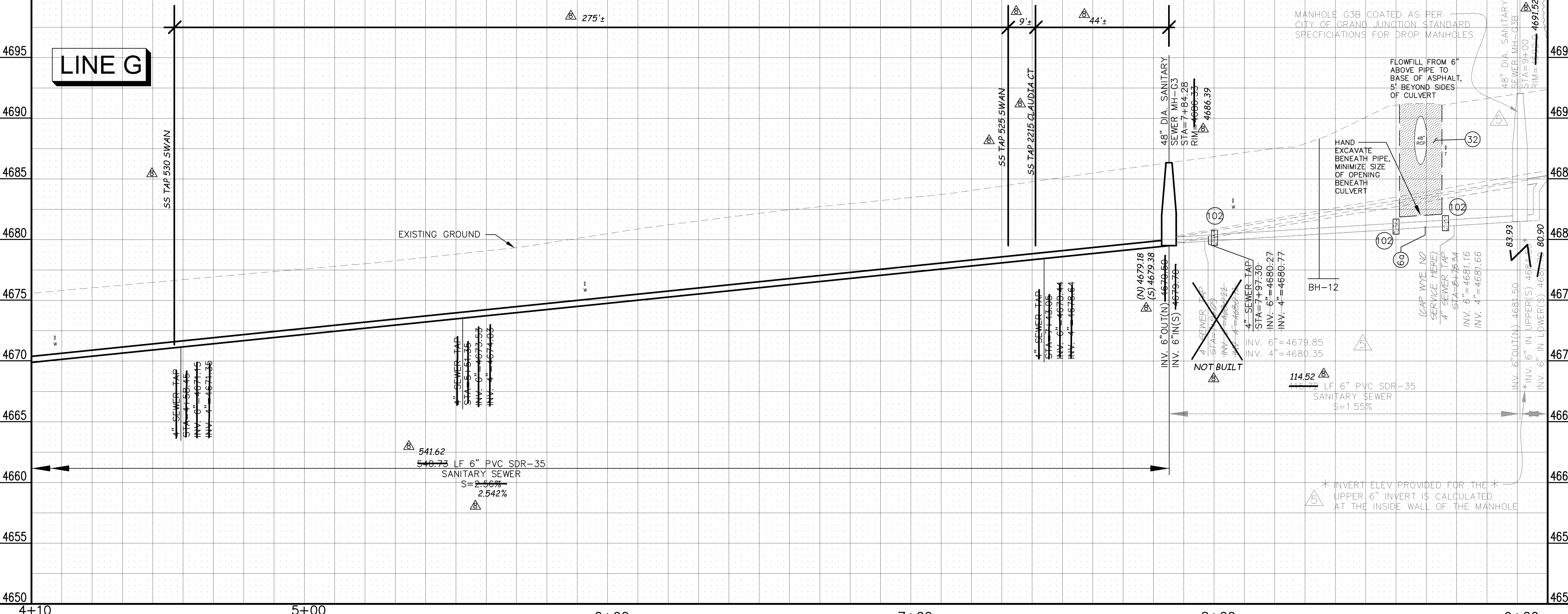
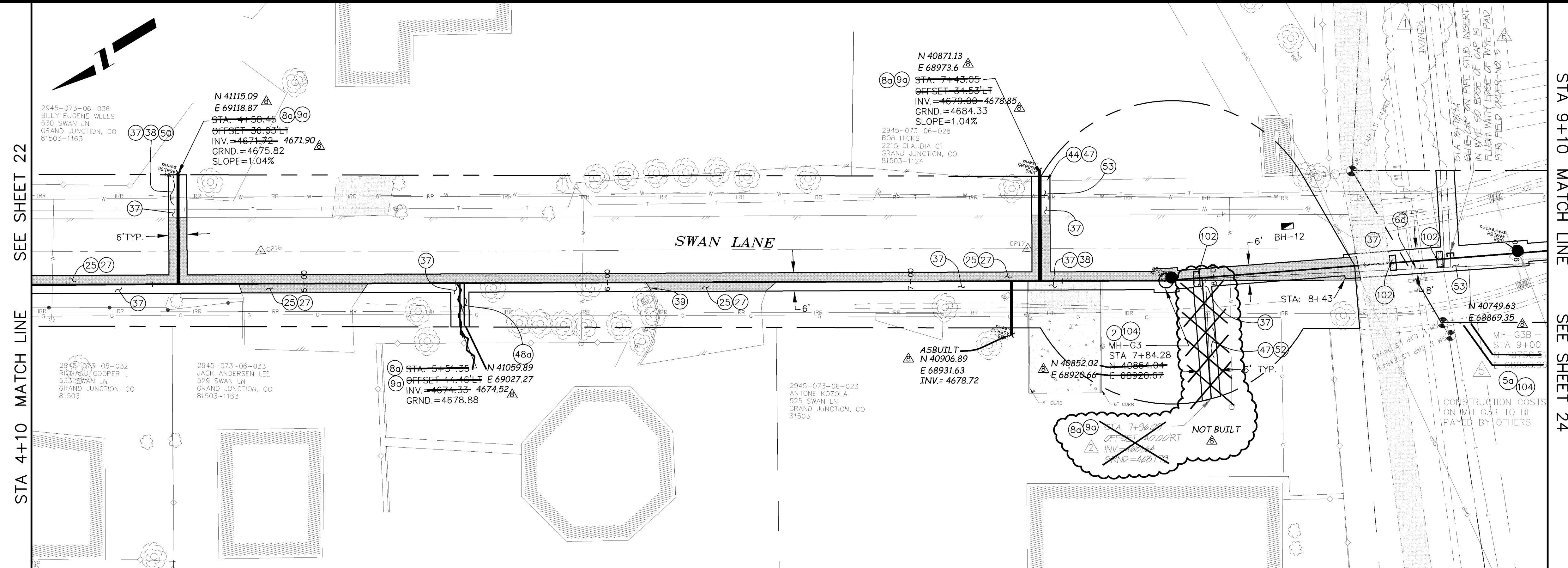
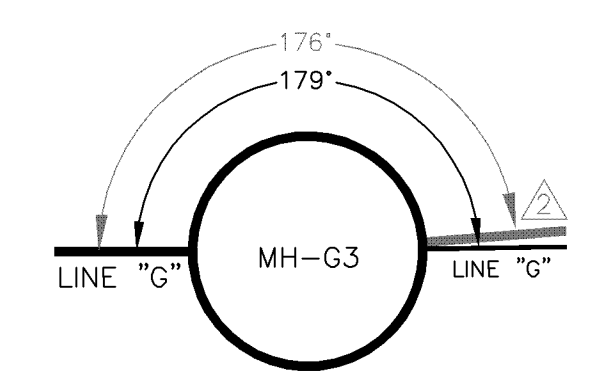
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
LINE G - PLAN AND PROFILE
STA 0+09.25 TO STA 4+10

CONSTRUCTION NOTES

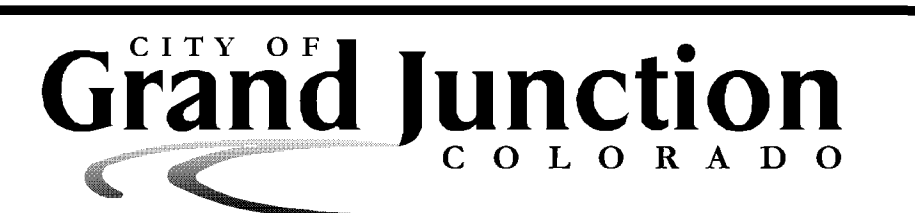
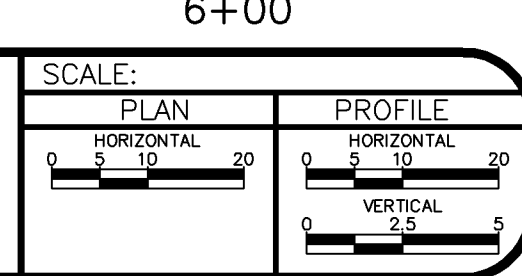
- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 5a 102.11 - SANITARY SEWER BASIC DROP MANHOLE (6" DIA. PIPE)(48" I.D.). INCLUDES MANHOLE COATING AS PER 102.11. (SEE STD. DETAIL SS-04).
- 6a 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 8a 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 9a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03), PAID PER SY.
- 32 206.02/206.03 - STRUCTURE BACKFILL (FLOWFILL). PAID PER CY.
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 38 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- 39 202/608 - REMOVE AND REPLACE CONCRETE OR ASPHALT CURB AND GUTTER/CURBING/GUTTER/BORDER. SIZE AND STYLE VARY. MATCH EXISTING.
- 44 210 - RESET FENCE (ALL TYPES). (ALL TYPES).
- 47 210 - RESET IRRIGATION SYSTEM COMPONENTS (PER EACH PROPERTY).
- 48A 210 - RESET LANDSCAPE APPURTENANCES (DECORATIVE ROCK, WOOD CHIPS, TREE BARK). MATCH EXISTING W/ MIN THICKNESS = 2". REUSE EXISTING IF KEPT FREE OF FINES/DETRITUS. LANDSCAPING FABRIC REQUIRED AND INCIDENTAL TO PAY ITEM. PAID PER SY.
- 50 210 - RESET STONE/ROCK/BRICK/MASONRY BORDER.
- 52 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- 104 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO MANHOLE PAY ITEM.

MANHOLE DEFLECTION ANGLES



REVISION	APPENDIX #	DATE
REVISION	PRECONSTRUCTION	07/21/05
REVISION	REVISION #5 - SWAN LN DROP MH	12/16/05
REVISION	REVISION #6 - FIELD ORDER #5	12/30/05
REVISION	AS BUILT RECORDS	04-2007

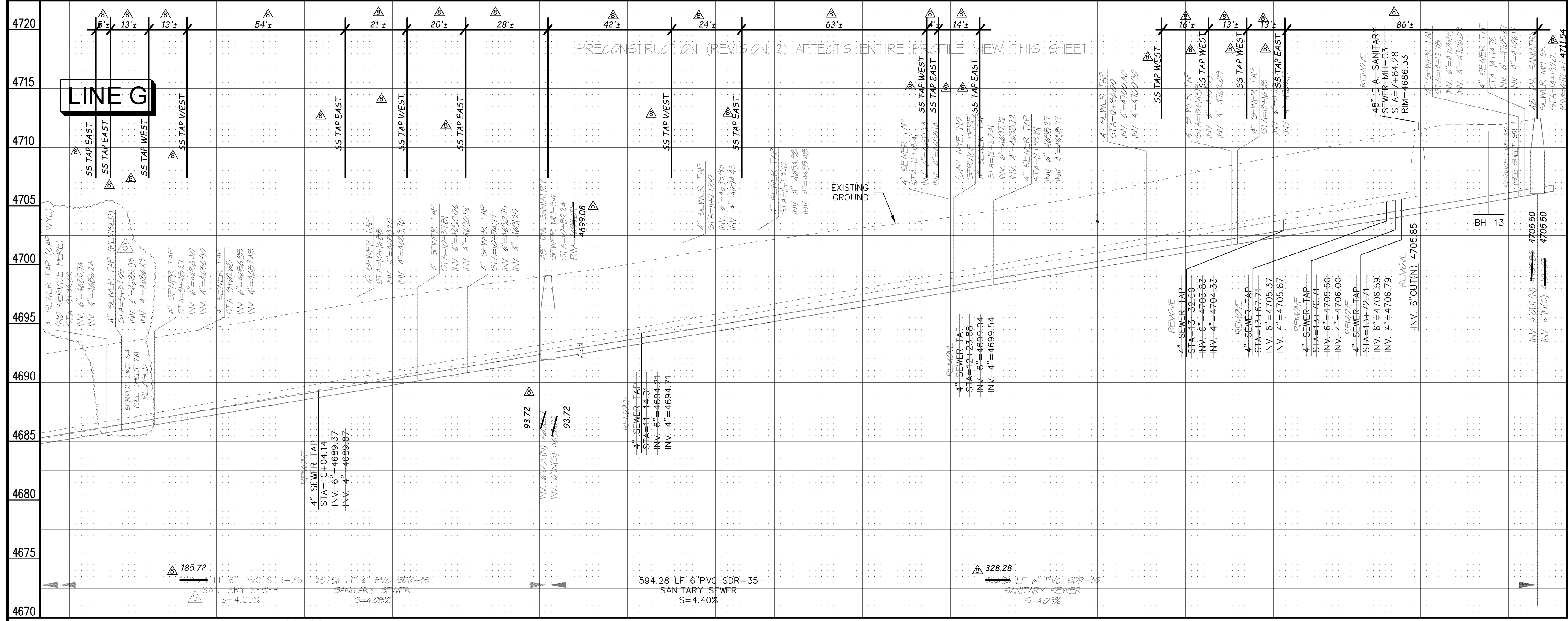
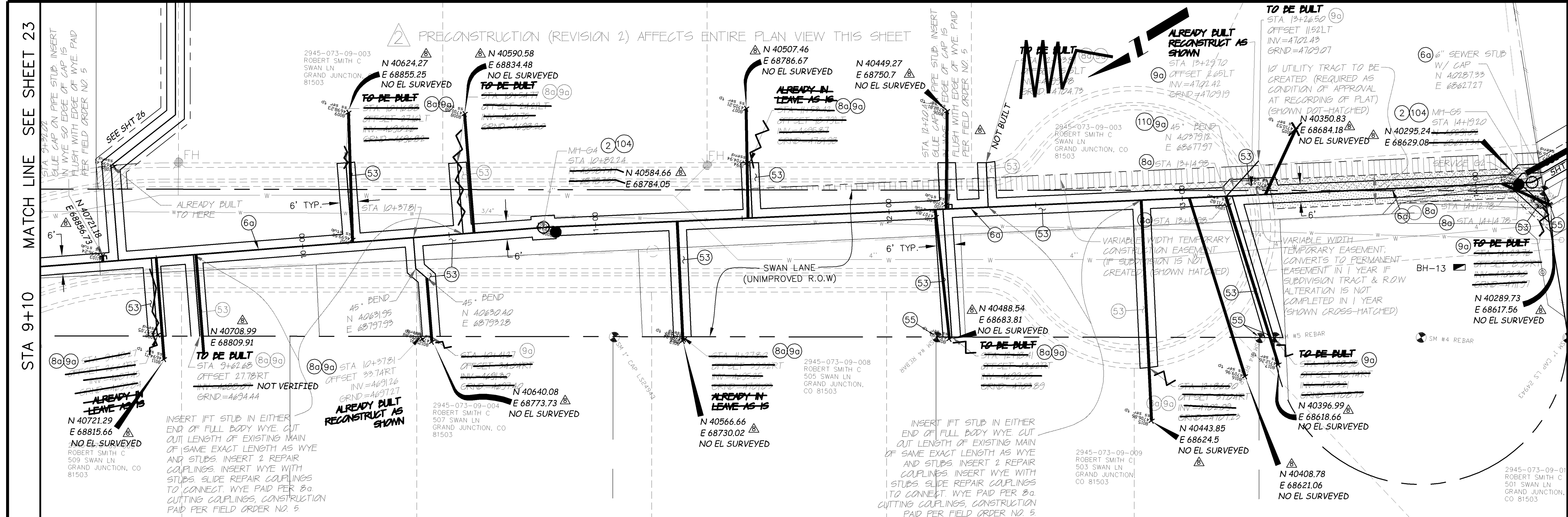
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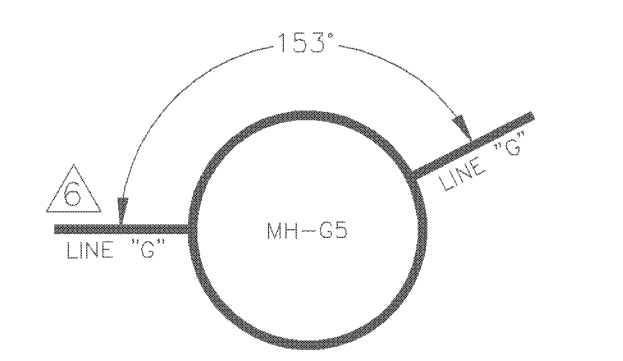
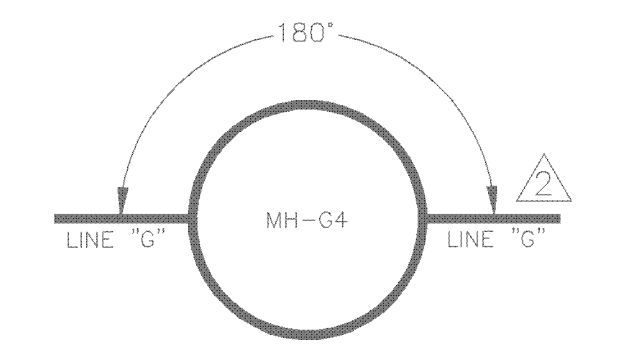
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
LINE G - PLAN AND PROFILE
STA 4+10 TO STA 9+10

- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 8a 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 9a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 12 GCC56 - NEWSLETTER (APPROXIMATELY 170 PER DISTRIBUTION, MAILED WEEKLY).
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 55 629 - REFERENCE AND RESET SURVEY MONUMENT.
- 104 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO MANHOLE PAY ITEM.



MANHOLE DEFLECTION ANGLES



REVISION	APPENDIX #	DATE	DESCRIPTION
1	PRECONSTRUCTION	6/21/05	
2	PRECONSTRUCTION	3/01/06	
3	REVISION #5 - SWAN LN DROP MH	12/16/05	
4	REVISION #6 - FIELD ORDER #5	12/30/05	
5	AS BUILT RECORDS	04-2007	

DRAWN BY DAW/TLT DATE 2005
 DESIGNED BY DRD DATE 2005
 CHECKED BY DRD DATE 2005
 APPROVED BY _____ DATE _____

SCALE:
 PLAN: 1" = 20'
 PROFILE: 1" = 5'

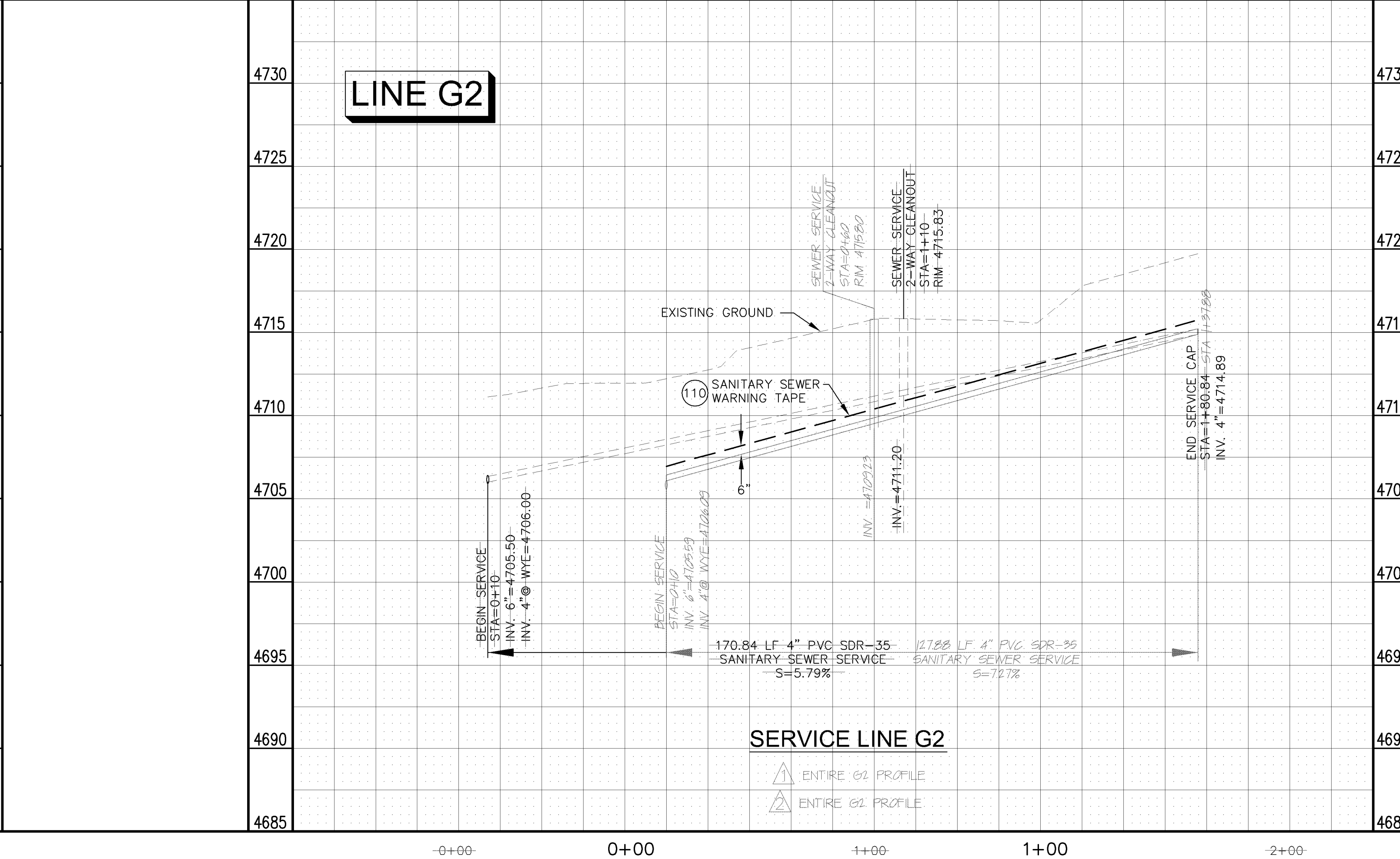
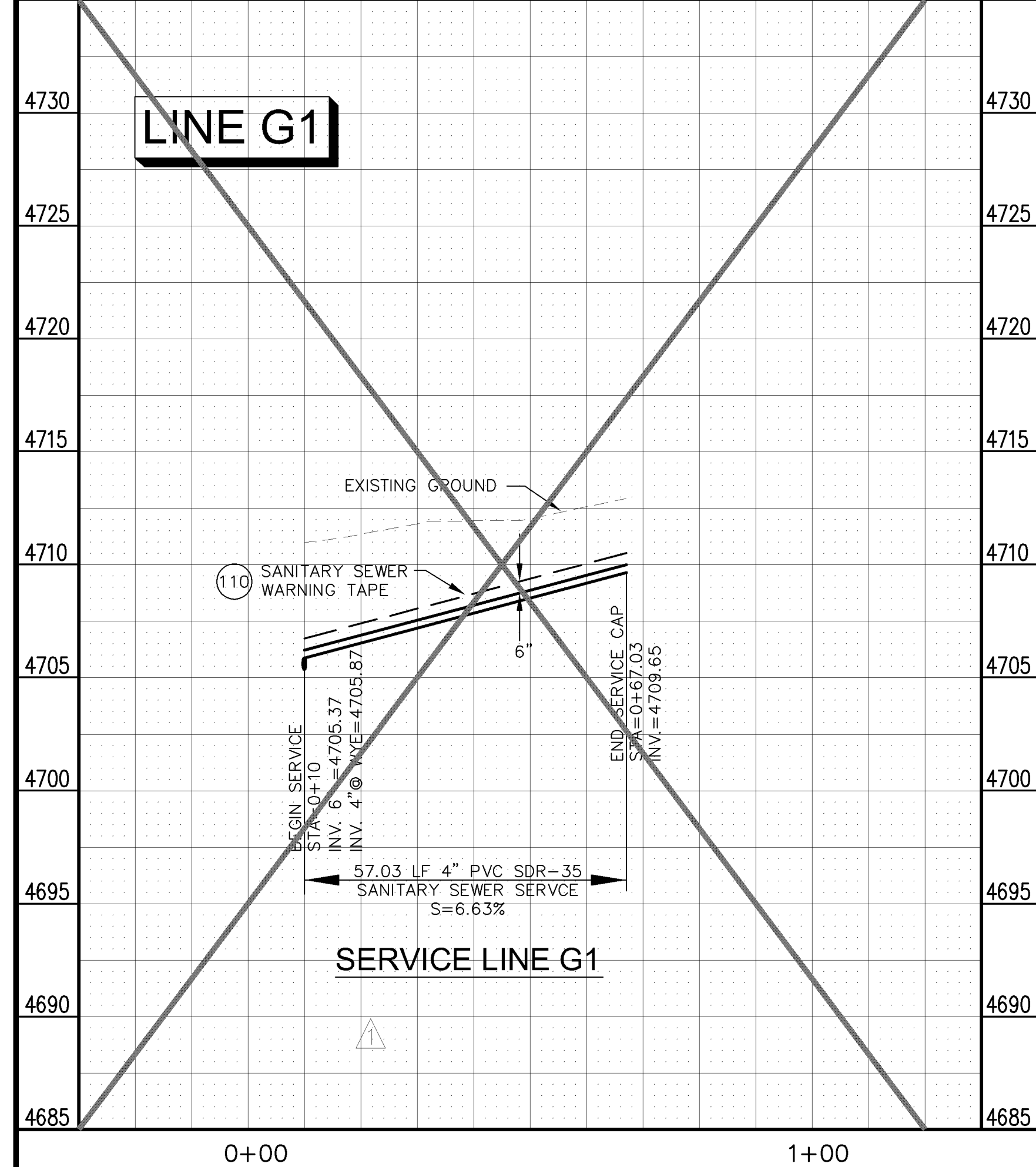
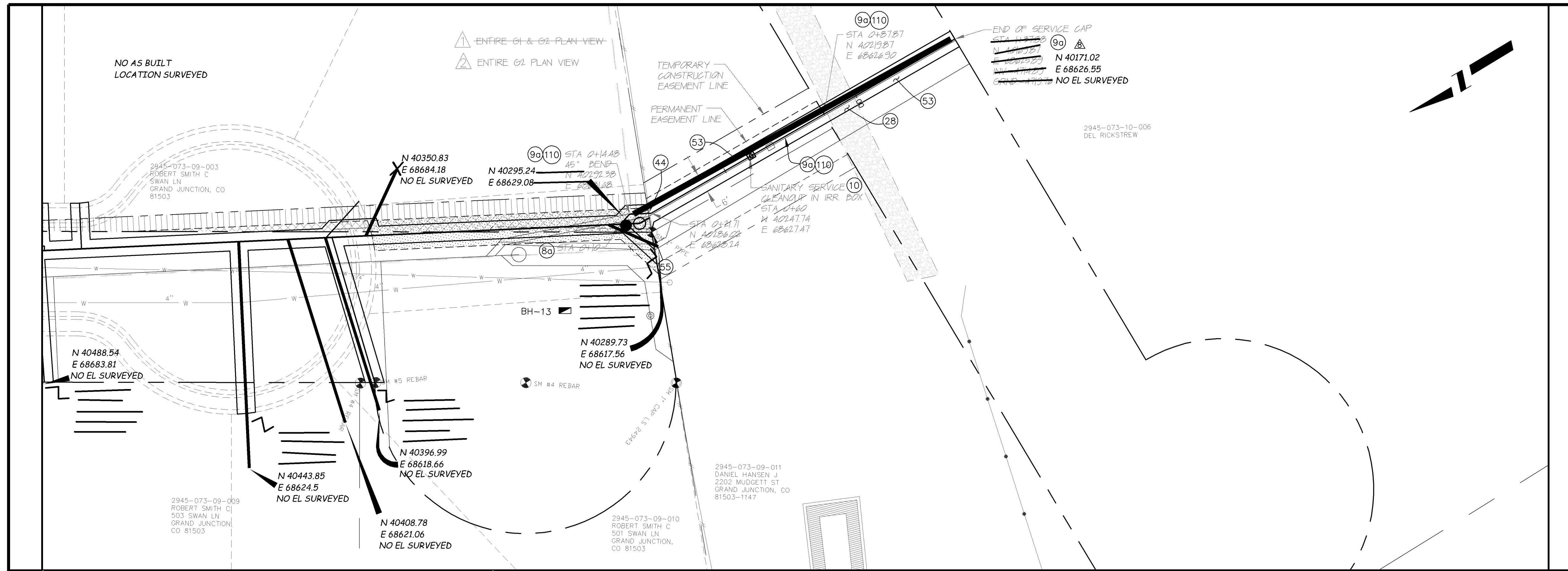


PUBLIC WORKS
 AND UTILITIES
 ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
 LINE G - PLAN AND PROFILE
 STA 9+10 TO STA 14+19.20

CONSTRUCTION NOTES

- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 8a 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 9a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 9b 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES TWO SERVICE LINES PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 10 104.2.B - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (OUTSIDE OF R.O.W.). INCLUDES IRRIGATION VALVE BOX.
- 28 304 - 6" CLASS 6 ABC FOR GRAVEL ROAD SURFACE COURSE. COMPACT TO 95% AASHTO T-180. PAID PER SY.
- 44 210 - RESET FENCE (ALL TYPES). (ALL TYPES).
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 55 629 - REFERENCE AND RESET SURVEY MONUMENT.
- 110 INSTALL SANITARY SEWER WARNING TAPE, 6" - 12" ABOVE TOP OF SERVICE. INCIDENTAL TO COST OF SERVICE INSTALLATION.



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A	APPENDIX #1	8/24/05	DRD	2005
REVISION B	PRECONSTRUCTION	9/20/05	DRD	2005
REVISION C	REVISION #6 - FIELD ORDER #5	12/30/05	DRD	2005
REVISION D	AS BUILT RECORDS	04-2007		

SCALE:	PLAN	PROFILE
	HORIZONTAL 0 5 10 20	HORIZONTAL 0 5 10 20
		VERTICAL 0 2.5 5

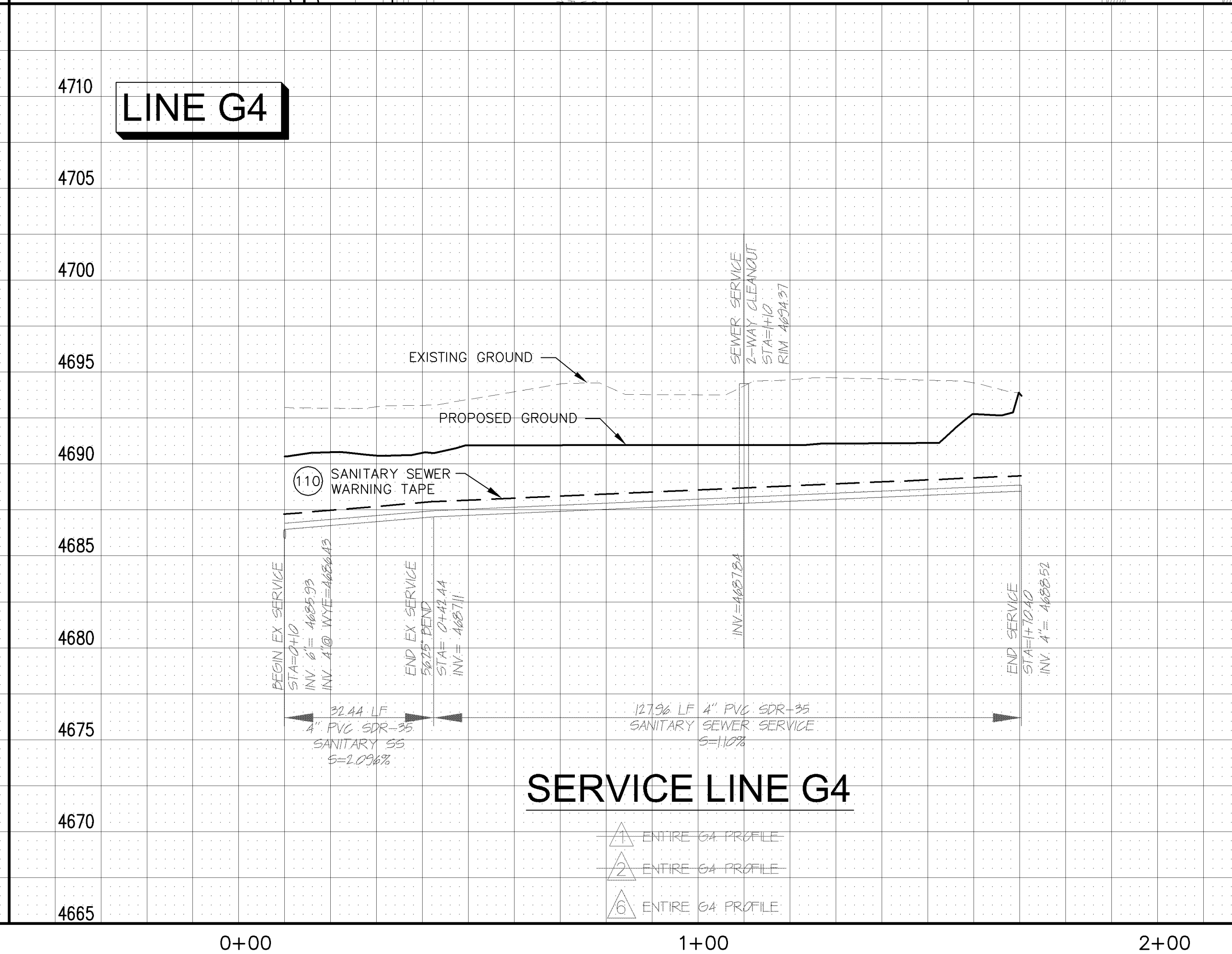
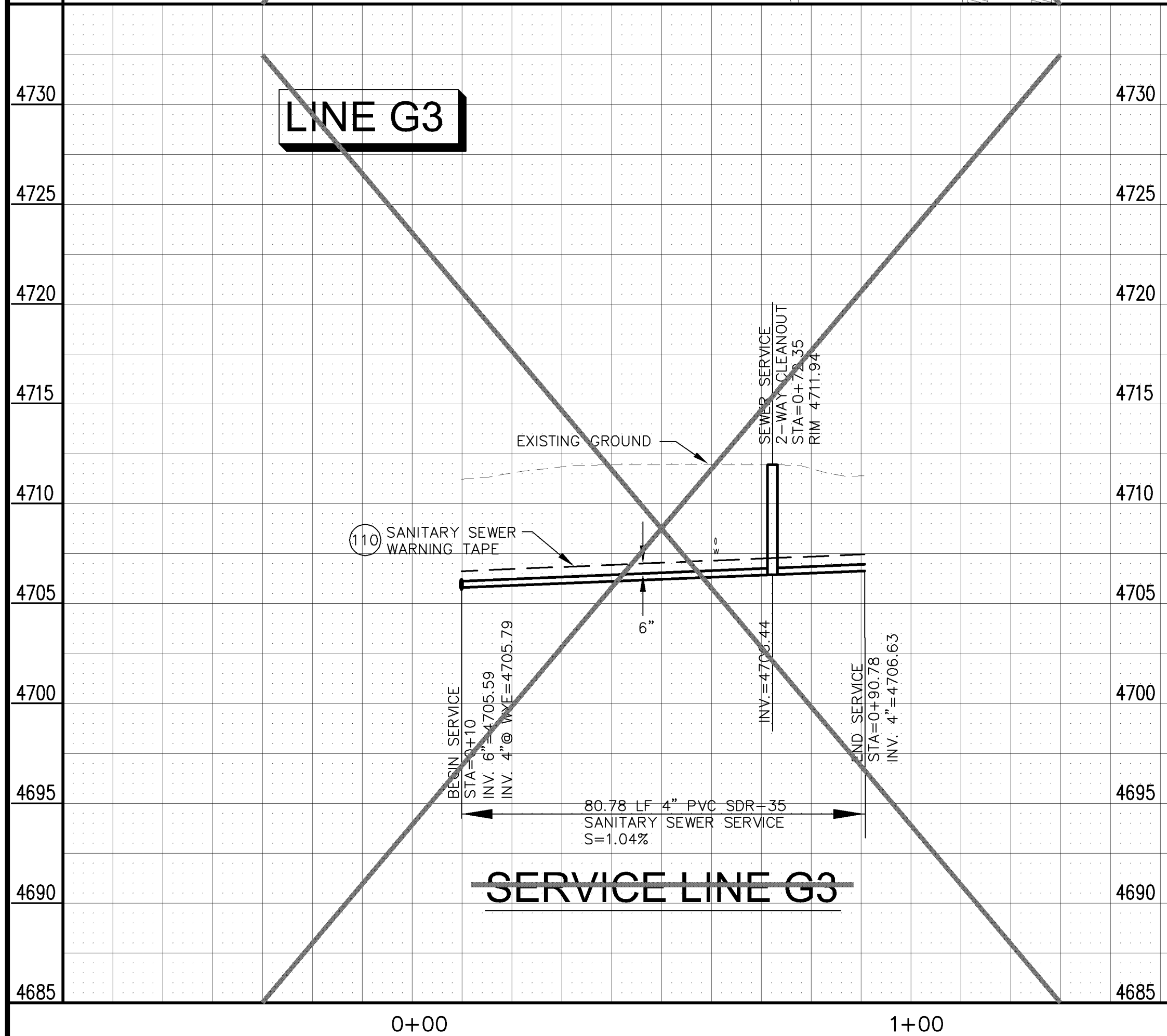
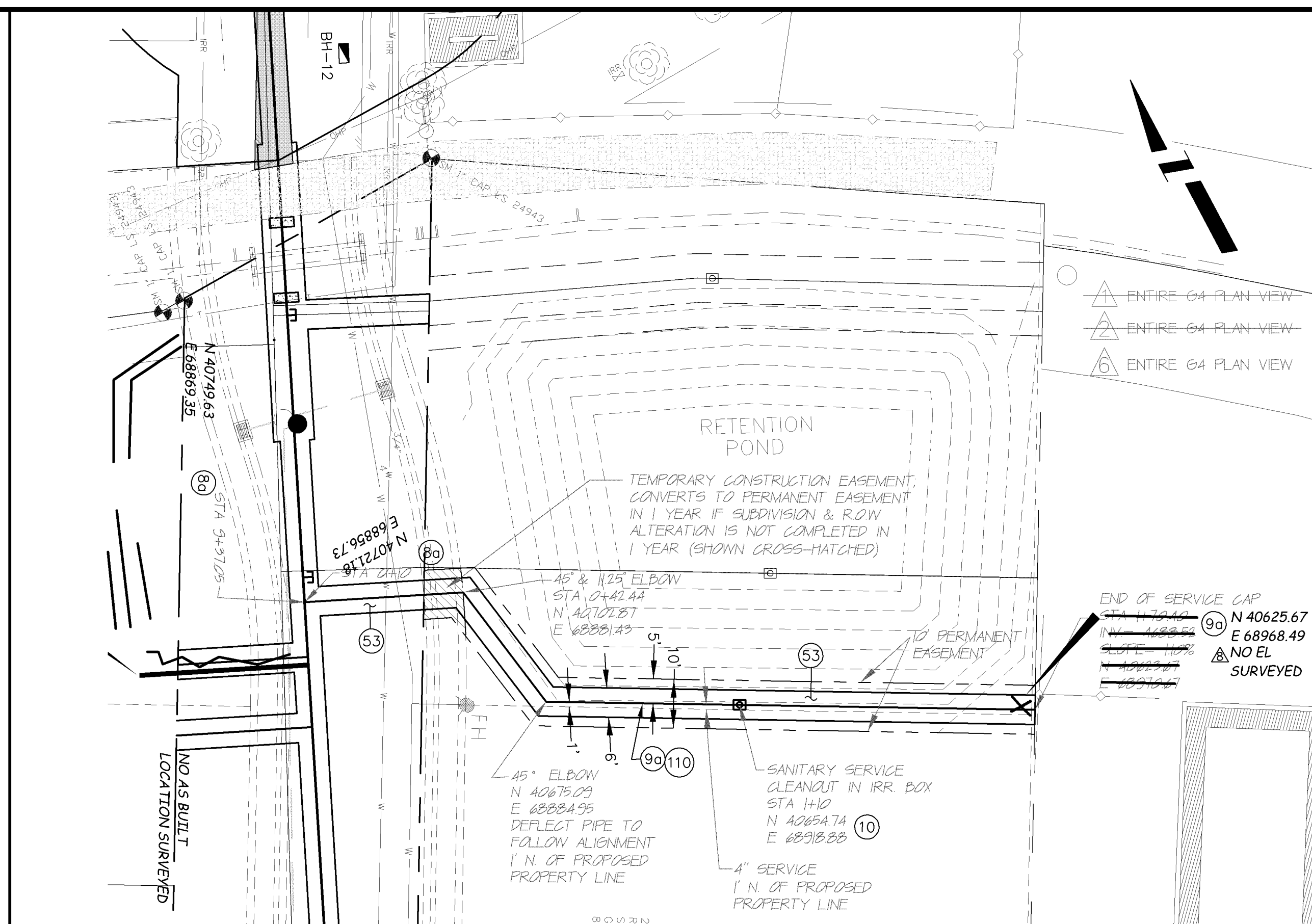
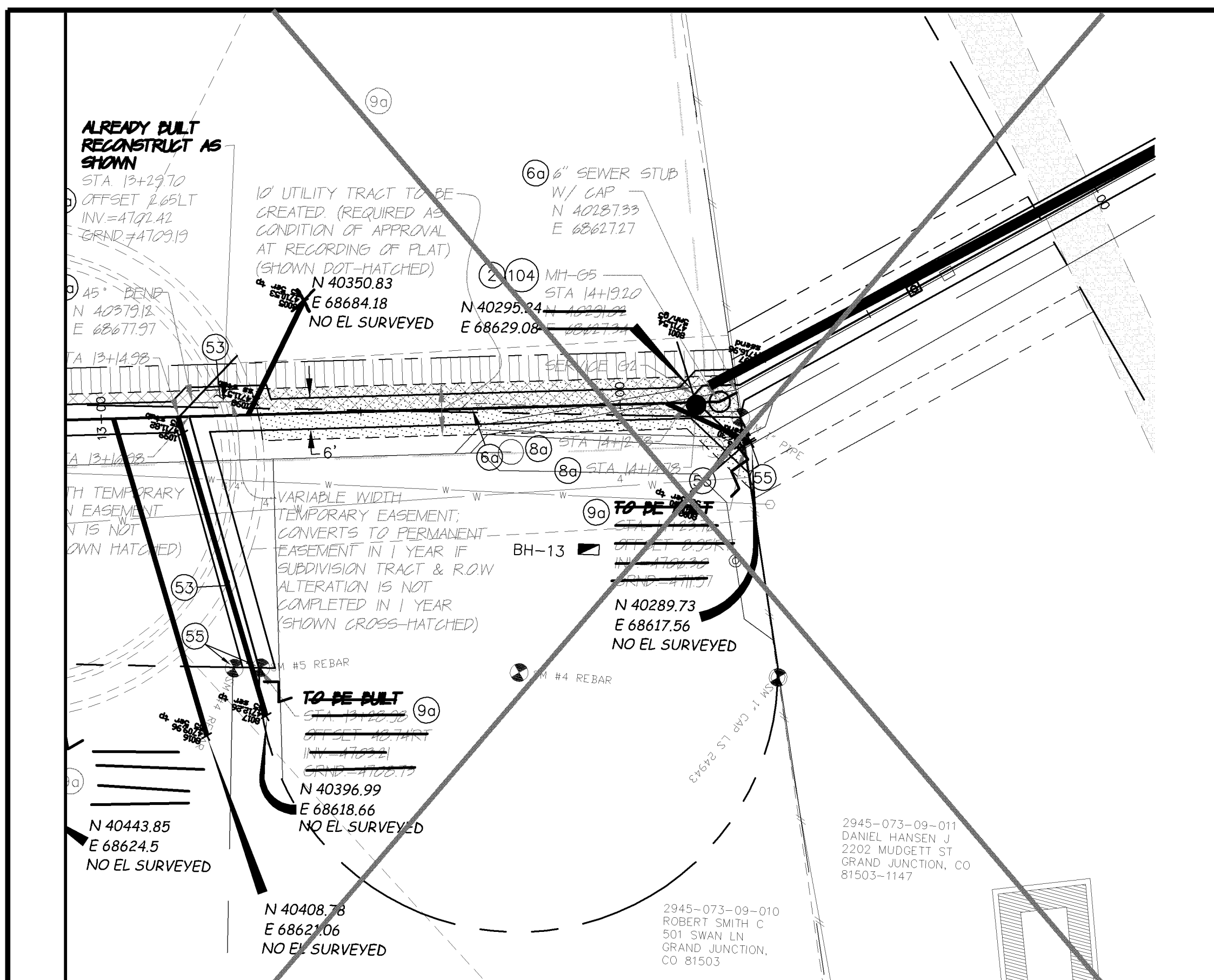


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
LINES "G1 & G2" - PLAN AND PROFILE

CONSTRUCTION NOTES

- 80 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 90 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES TYPE A BEDDING AND HAUNCHING AND END-OF-SERVICE CAP.
- 10 104.2.B - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (OUTSIDE OF R.O.W.). INCLUDES IRRIGATION BOX.
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 95% AASHTO T-99.
- 44 210 - RESET FENCE.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 110 104.2.B - INSTALL SANITARY SEWER WARNING TAPE, 6" - 12" ABOVE TOP OF SERVICE. INCIDENTAL TO COST OF SERVICE INSTALLATION.



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A	APPENDIX #1	8/24/05	DAW/TLT	2005
REVISION B	PRECONSTRUCTION	9/1/05	DRD	2005
REVISION C	REVISION #6 - FIELD ORDER #5	12/30/05	DRD	2005
REVISION D	AS BUILT RECORDS	04-2007		

CITY OF
Grand Junction
 COLORADO

PLAN
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 VERTICAL 0 5 10 20

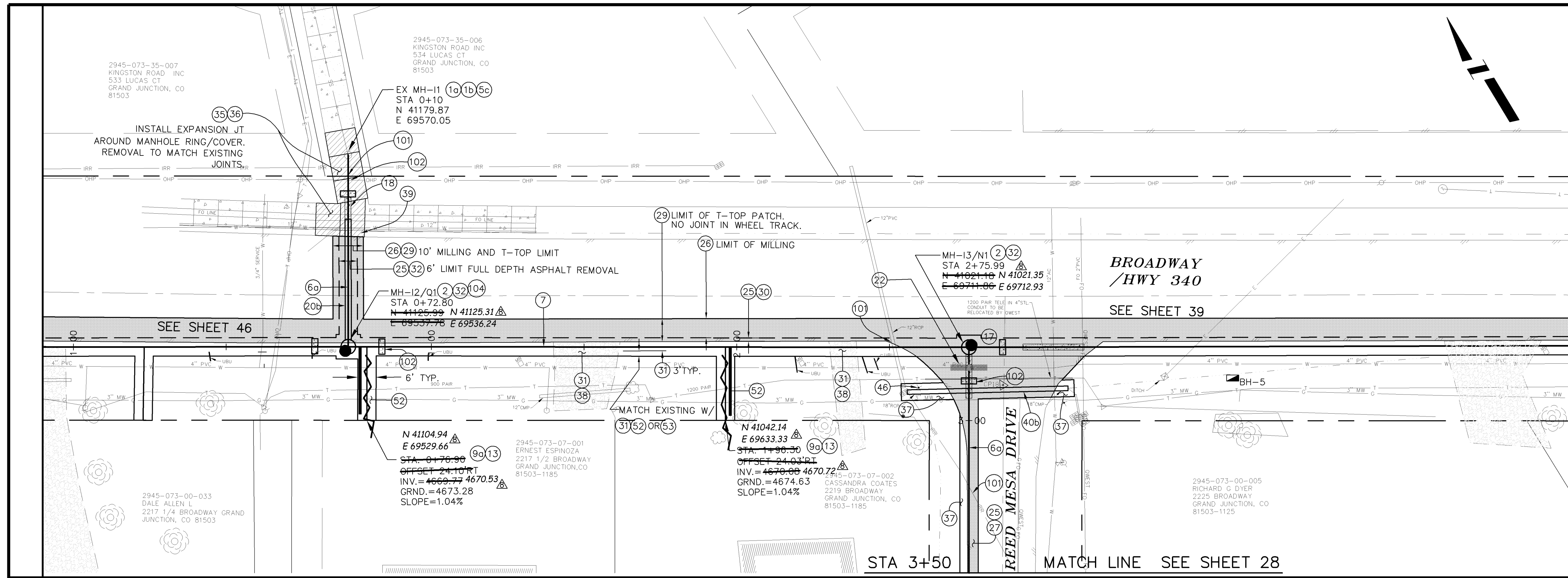
PROFILE
 HORIZONTAL 0 5 10 20
 VERTICAL 0 5 10 20

PUBLIC WORKS
 AND UTILITIES
 ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
 LINES "G3 & G4" - PLAN AND PROFILE

CONSTRUCTION NOTES

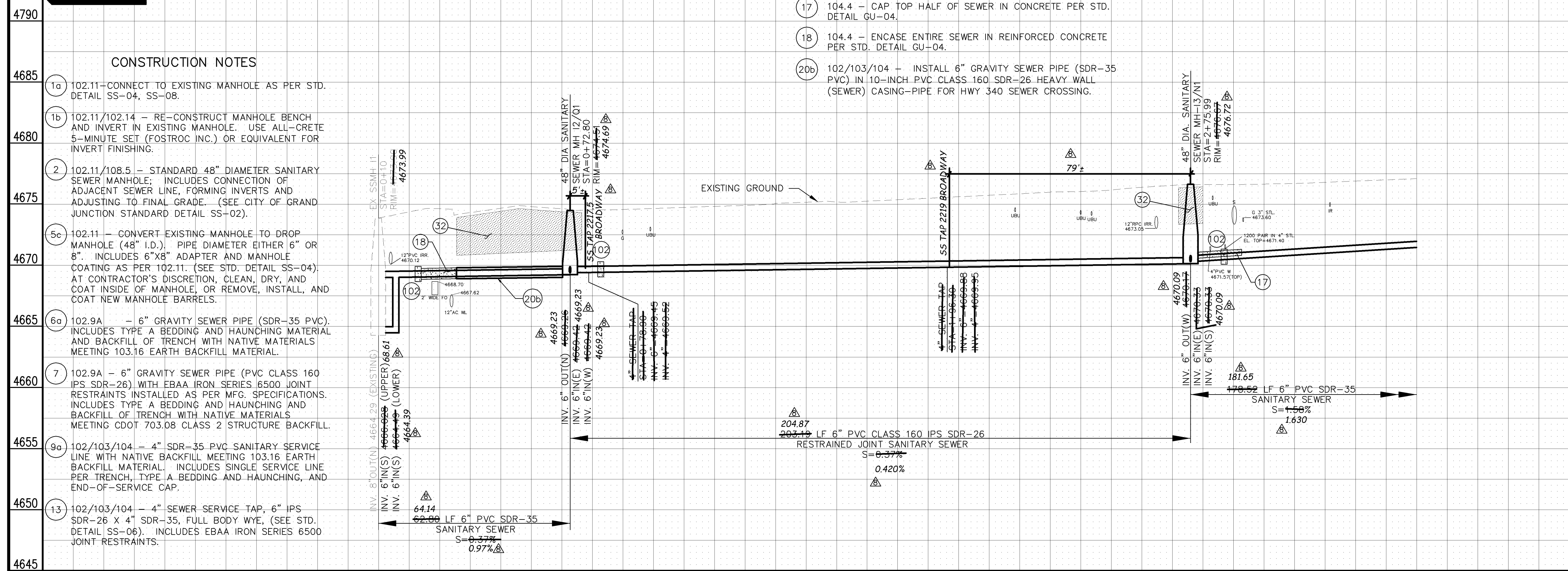
- 22 104.3D - VERTICAL RELOCATE PVC WATERLINE AS PER STD. DETAIL W-07, W-08, W-12 AND DETAIL RMSD-03. USE SCHEDULE 80 PVC W/ SOLVENT WELD JOINTS. THRUST BLOCK AS PER DETAIL RMSD-03. SWAB AND SPRAY DISINFECT. NOTIFY UTE WATER 3 DAYS PRIOR TO WORK. THRUST BLOCKS AND DISINFECTION INCIDENTAL TO PAY ITEM.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 26 103.3 - ASPHALT REMOVAL FOR T-TOP PATCHING OF HWY. 340 (MILLING): REMOVE ASPHALT AND FLOWFILL BY MILLING.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 29 103.18/401 - PAVEMENT REPLACEMENT ON HWY 340: HOT BITUMINOUS PAVEMENT, GRADING SX SUPERPAVE 75-GYRATION, BINDER GRADE PG 64-28.
- 30 304 - 12" CLASS 6 ABC FOR HWY 340 ROAD BASE. COMPACT IN 6" LIFTS TO 95% AASHTO T-180.
- 31 304 - 12" CLASS 6 ABC FOR HWY 340 SHOULDER GRAVEL. COMPACT IN 6" LIFTS TO 90% AASHTO T-180. PAID PER TON.
- 32 206.02/206.03 - STRUCTURE BACKFILL (FLOWFILL). PAID PER CY.
- 35 202 - REMOVE CONCRETE PAVEMENT.
- 36 412 - REPLACE CONCRETE DRIVEWAY SECTION (6" THICK).
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 38 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- 39 202/608 - REMOVE AND REPLACE CONCRETE OR ASPHALT CURB AND GUTTER/CURBING/GUTTER/BORDER. SIZE AND STYLE VARY. MATCH EXISTING.



LINE I

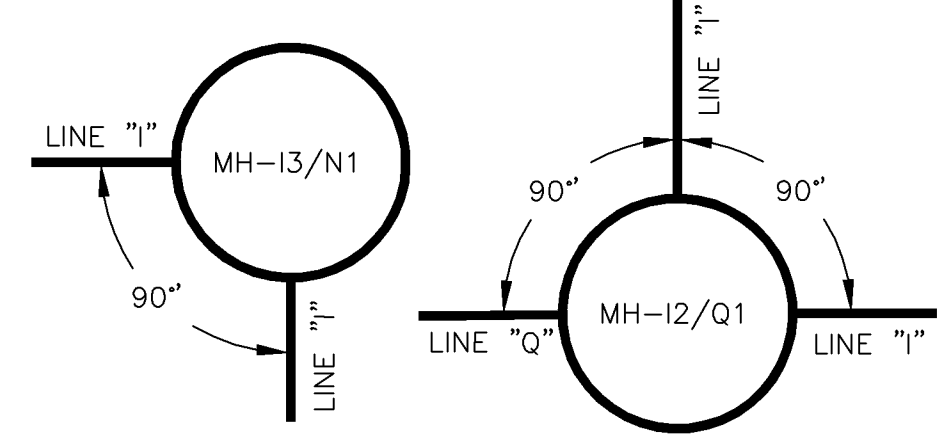
CONSTRUCTION NOTES

- 17 104.4 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL GU-04.
- 18 104.4 - ENCASE ENTIRE SEWER IN REINFORCED CONCRETE PER STD. DETAIL GU-04.
- 20b 102/103/104 - INSTALL 6" GRAVITY SEWER PIPE (SDR-35 PVC) IN 10-INCH PVC CLASS 160 SDR-26 HEAVY WALL (SEWER) CASING-PIPE FOR HWY 340 SEWER CROSSING.



- 40b 202/102.10 - REMOVE EXISTING STORMWATER/IRRIGATION CULVERT. REPLACE WITH 18" ADS N-12 IB WT. TRENCH WIDTH = OD+12" MIN; =OD+18" MAX. INSTALL TYPE A BEDDING MATERIAL TO SPRINGLINE; GROUT SEAL/REPAIR AT EXISTING CONCRETE INLET/OUTLET STRUCTURE WHERE PRESENT; INCIDENTAL TO PAY ITEM. SEE CULVERT TABLE, SHEET 5.
- 46 210 - RESET POST/SIGN.
- 52 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 101 SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2' ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.
- 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- 104 304 - 6" CLASS 6 ABC FOR GRAVEL ROAD SURFACE COURSE. COMPACT TO 95% AASHTO T-180. PAID PER SY.

MANHOLE DEFLECTION ANGLES



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A			DAW/TLT	2005
REVISION B			DRD	2005
REVISION C			DRD	2005
REVISION D	AS BUILT RECORDS	04-2007		

SCALE:	PLAN	PROFILE
	HORIZONTAL 0 5 10 20	HORIZONTAL 0 5 10 20
	VERTICAL 0 2.5 5	

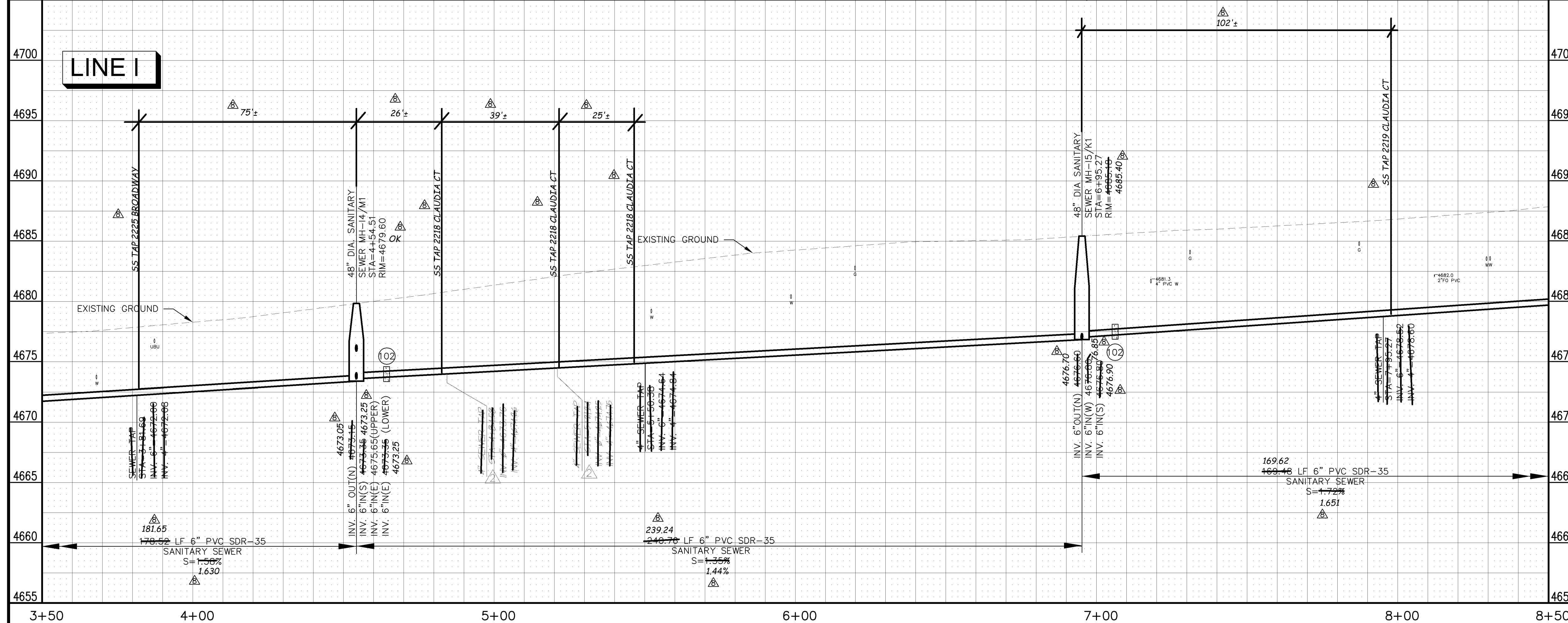
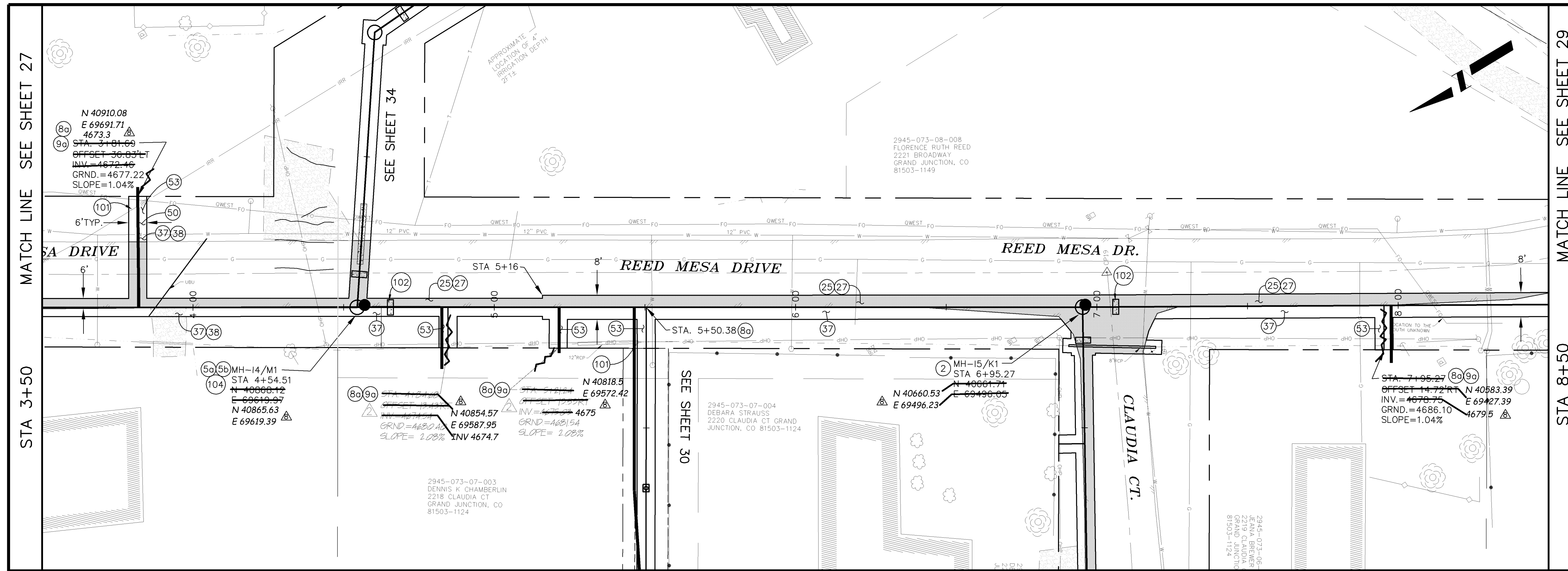


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

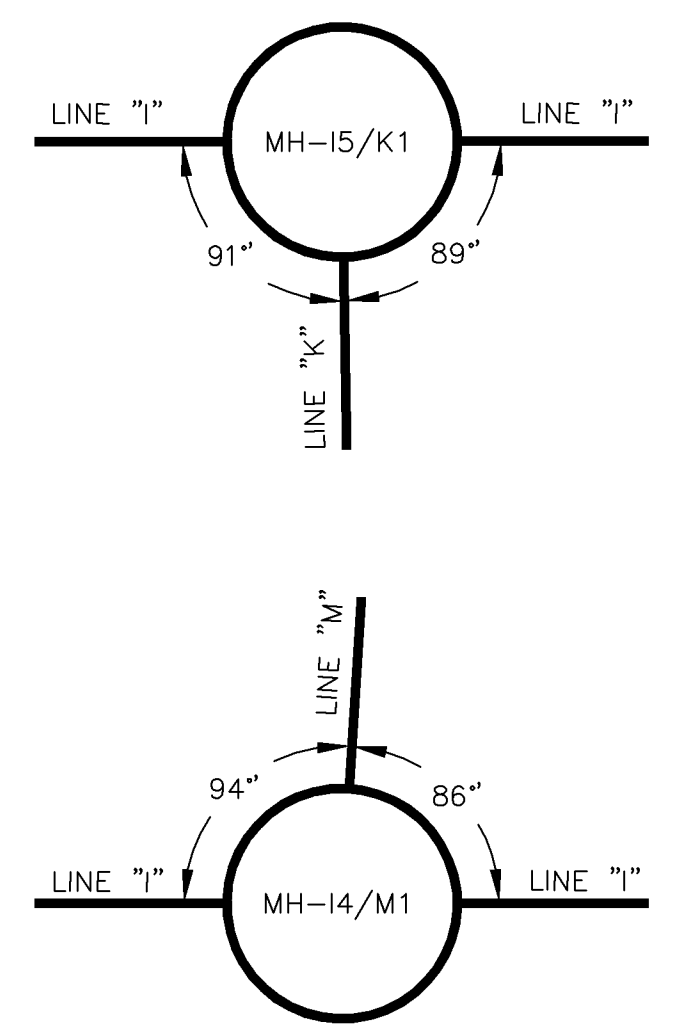
REED MESA SANITARY IMPROVEMENT DISTRICT
LINE I - PLAN AND PROFILE
STA 0+10 TO STA 3+50

CONSTRUCTION NOTES

- ② 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- ⑤ 102.11 - SANITARY SEWER BASIC DROP MANHOLE (6" DIA. PIPE)(48" I.D.). INCLUDES MANHOLE COATING AS PER 102.11. (SEE STD. DETAIL SS-04).
- ⑧ 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- ⑨ 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- ⑫ 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION; CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- ⑰ 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- ⑳ 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- ㉑ 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- ㉒ 210 - RESET STONE/ROCK/BRICK/MASONRY BORDER.
- ㉓ 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- ㉔ SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2' ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.
- ㉕ CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- ㉖ 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO MANHOLE PAY ITEM.



MANHOLE DEFLECTION ANGLES



REVISION	DESCRIPTION	DATE
REVISION A	PRECONSTRUCTION	9/1/05
REVISION B	AS BUILT RECORDS	04-2007

DESCRIPTION	DATE
DESIGNED BY DRD	DATE 2005
CHECKED BY DRD	DATE 2005
APPROVED BY	DATE

SCALE:	
PLAN	PROFILE
HORIZONTAL 0 5 10 20	HORIZONTAL 0 5 10 20
VERTICAL 0 2.5 5	



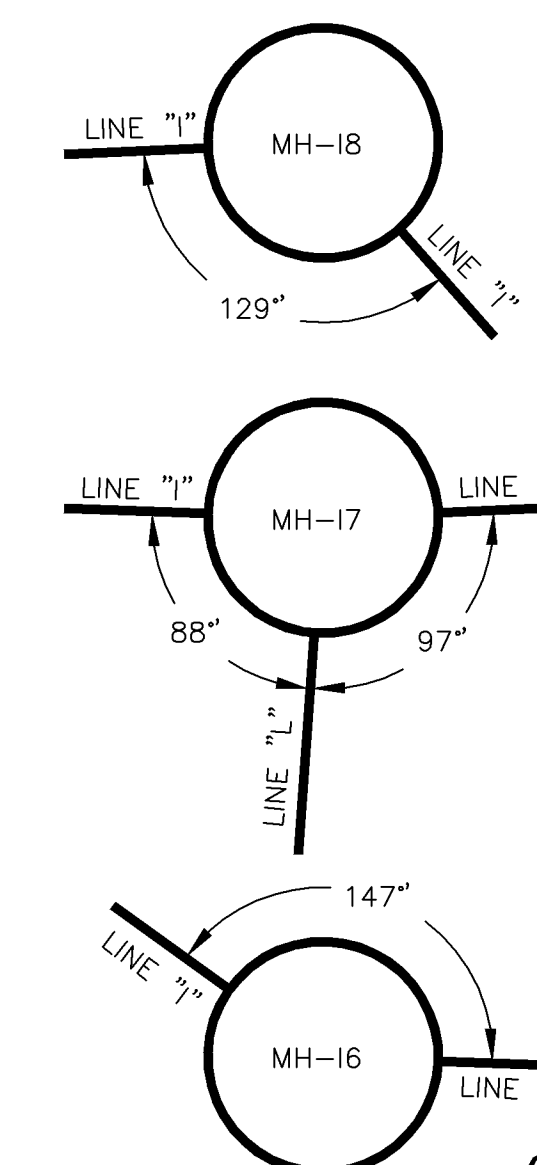
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

**REED MESA SANITARY IMPROVEMENT DISTRICT
LINE I - PLAN AND PROFILE
STA 3+50 TO STA 8+50**

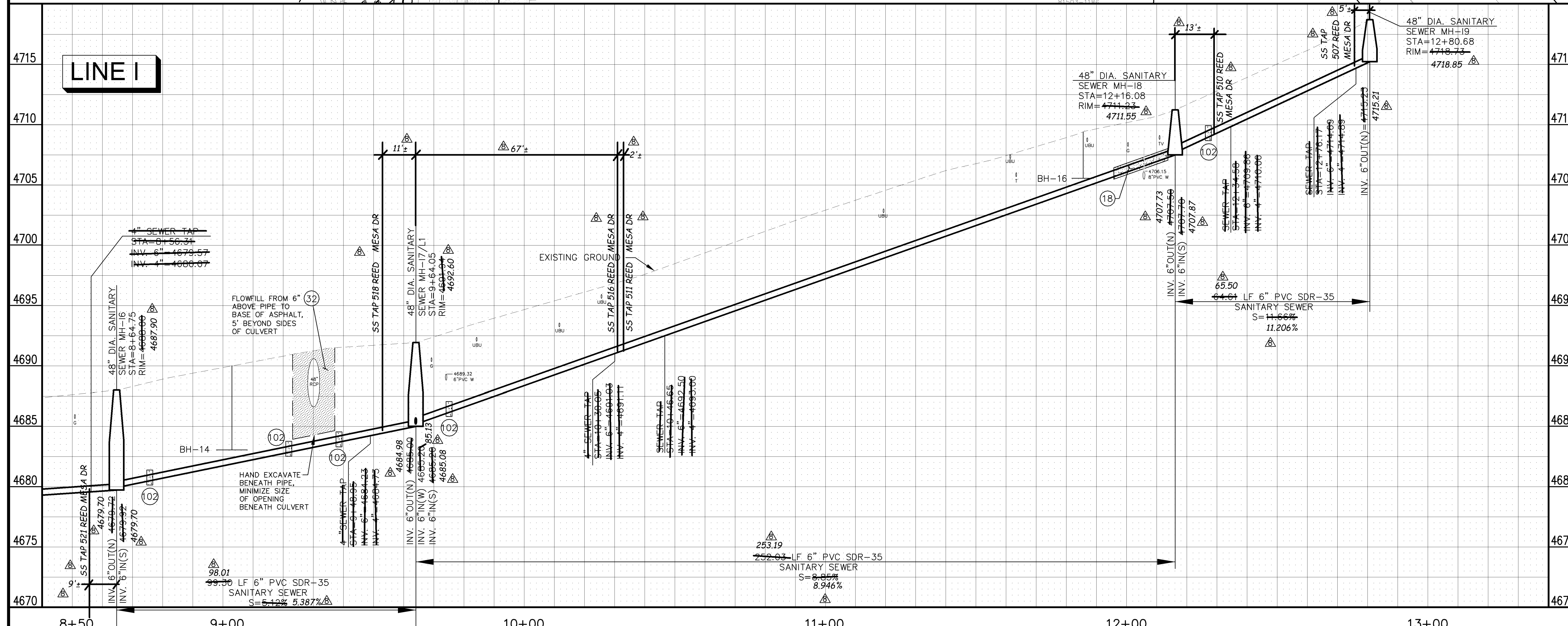
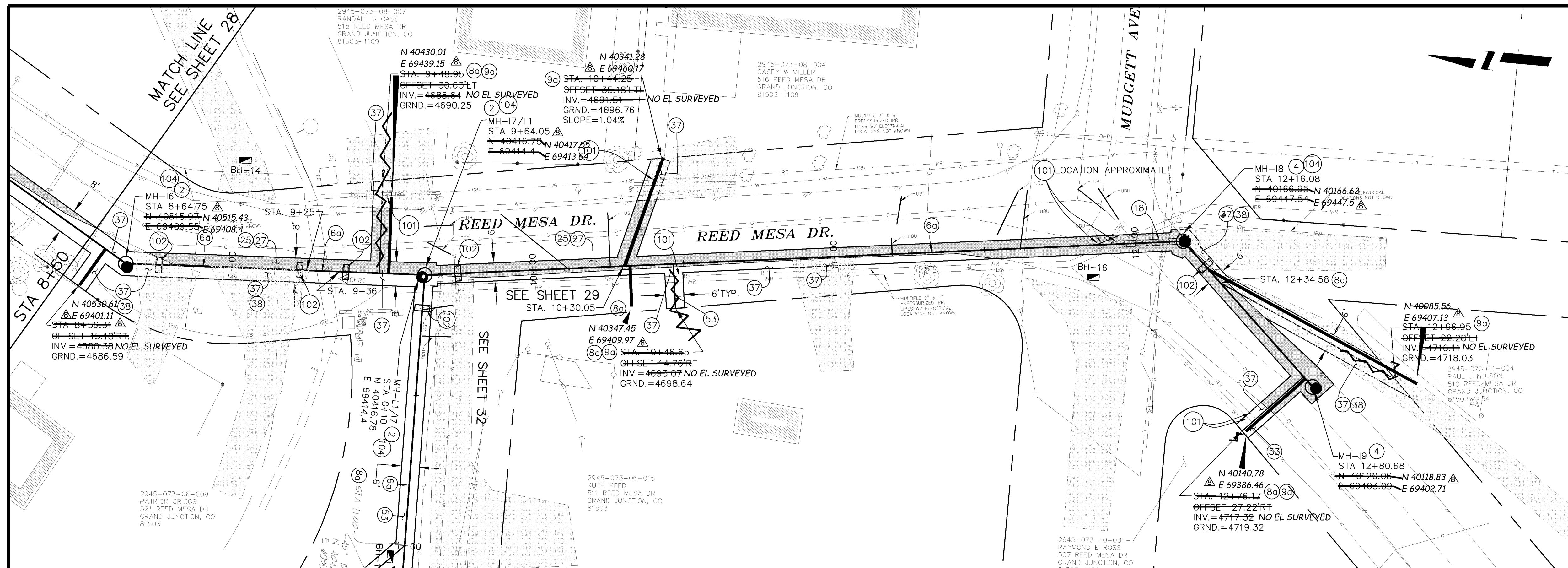
CONSTRUCTION NOTES

- ② 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- ④ 102.11 - 48" DIAMETER SHALLOW SANITARY SEWER MANHOLE (D ≤ 5'); INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS, LID SLAB IF REQUIRED, AND ADJUSTING TO FINAL GRADE. (SEE STD. DETAIL SS-03).
- ⑥0 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- ⑧0 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- ⑨0 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- ⑮ 104.4 - ENCASE ENTIRE SEWER IN REINFORCED CONCRETE PER STD. DETAIL GU-04.
- ⑲ 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- ⑳ 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- ㉓ 206.02/206.03 - STRUCTURE BACKFILL (FLOWFILL). PAID PER CY.
- ㉔ 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- ㉕ 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- ㉖ 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- ⑩1 SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2" ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.
- ⑩2 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- ⑩4 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO MANHOLE PAY ITEM.

MANHOLE DEFLECTION ANGLES



02110929.TIF



REVISION	DESCRIPTION	DATE
AS BUILT RECORDS		04-2007

DESIGNED BY	DATE
DRD	2005
DRD	2005
DRD	2005

SCALE:
PLAN: 1" = 20'
PROFILE: HORIZONTAL 1" = 20', VERTICAL 1" = 5'

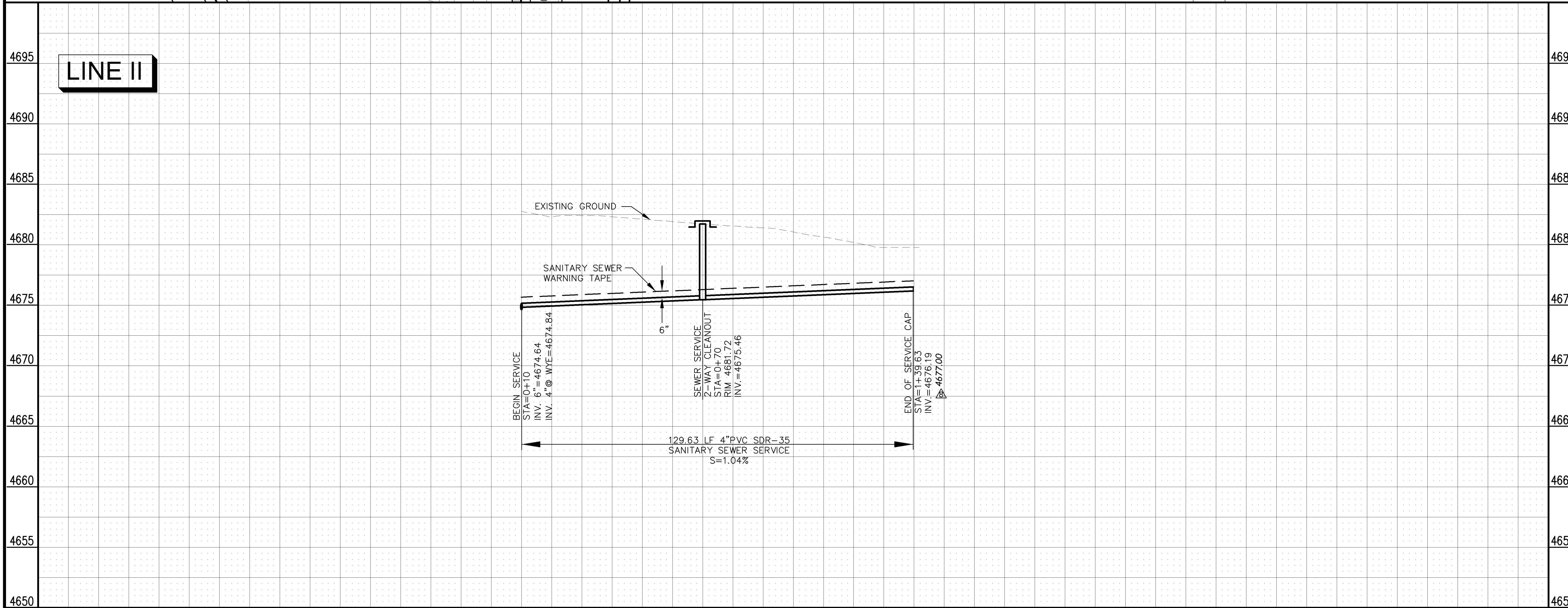
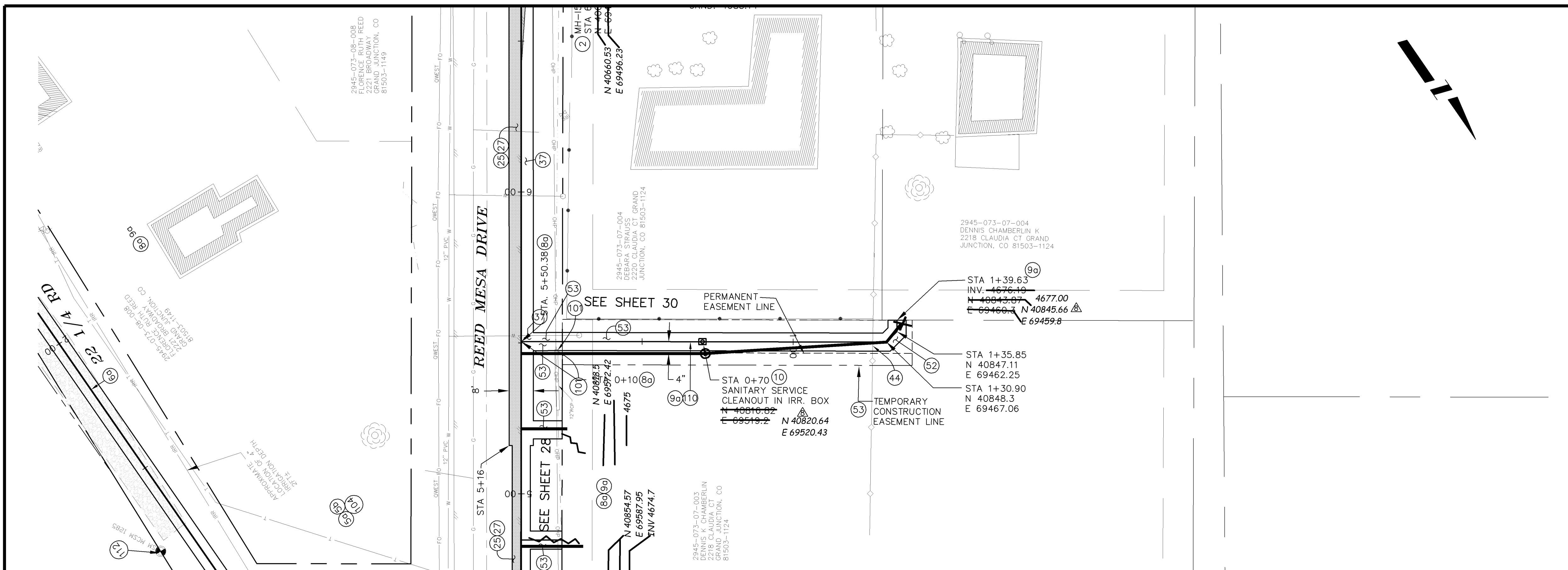


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

**REED MESA SANITARY IMPROVEMENT DISTRICT
LINE I - PLAN AND PROFILE
STA 8+50 TO STA 12+80.68**

CONSTRUCTION NOTES

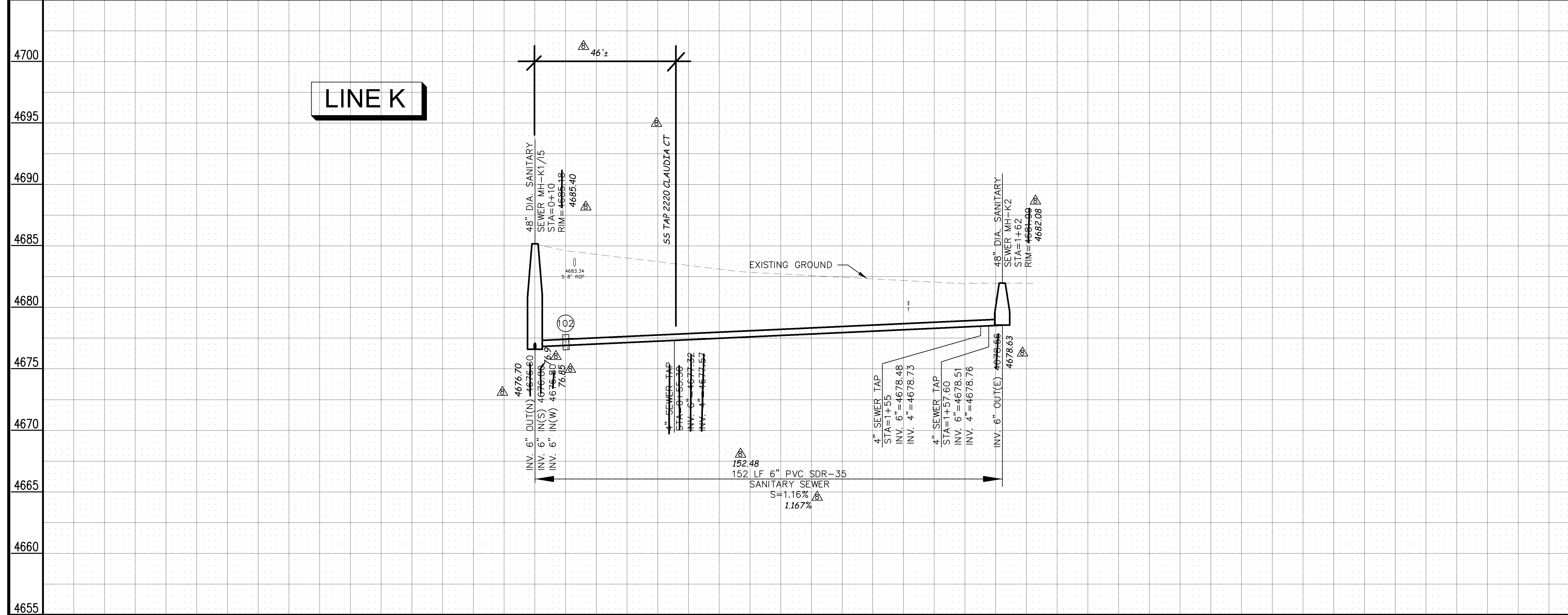
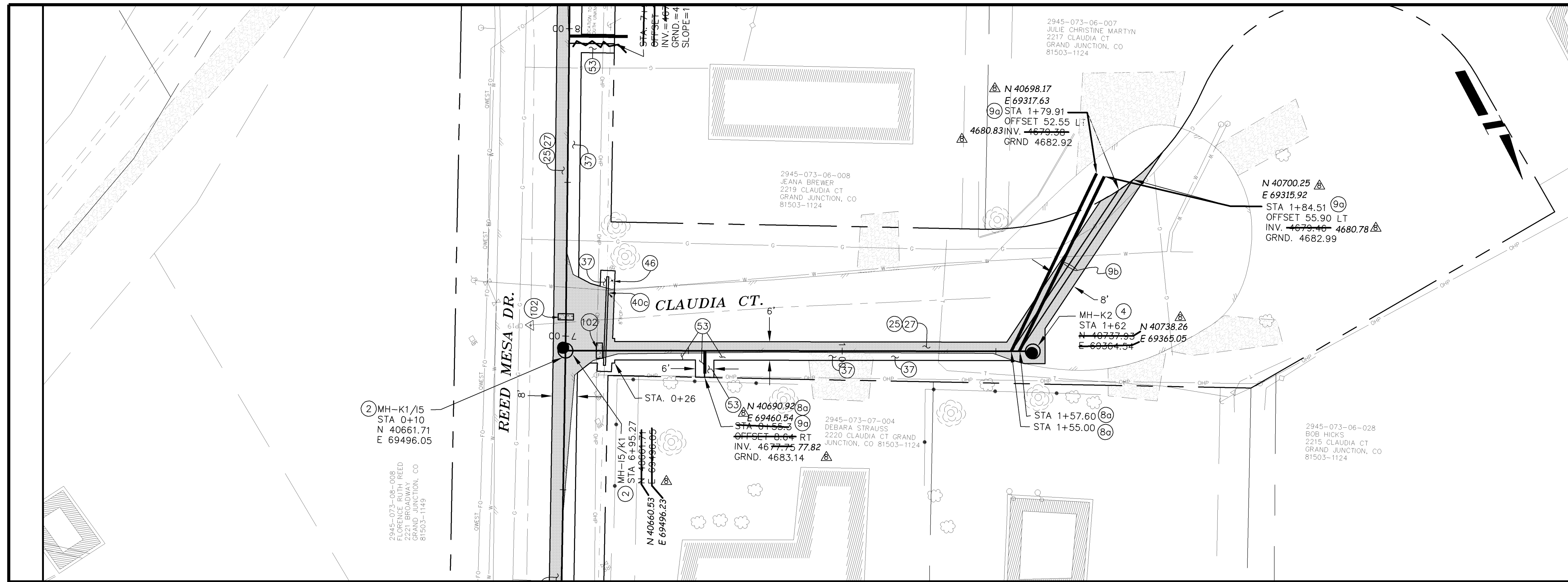
- ② 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- ⑧a 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- ⑨a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- ⑩ 104.2.B - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (OUTSIDE OF R.O.W.). INCLUDES IRRIGATION VALVE BOX.
- ②5 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- ②7 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- ③7 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- ④④ 210 - RESET FENCE (ALL TYPES).
- ⑤② 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- ⑤③ 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- ⑩① SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2' ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.
- ①①① INSTALL SANITARY SEWER WARNING TAPE, 6" - 12" ABOVE TOP OF SERVICE. INCIDENTAL TO COST OF SERVICE INSTALLATION.



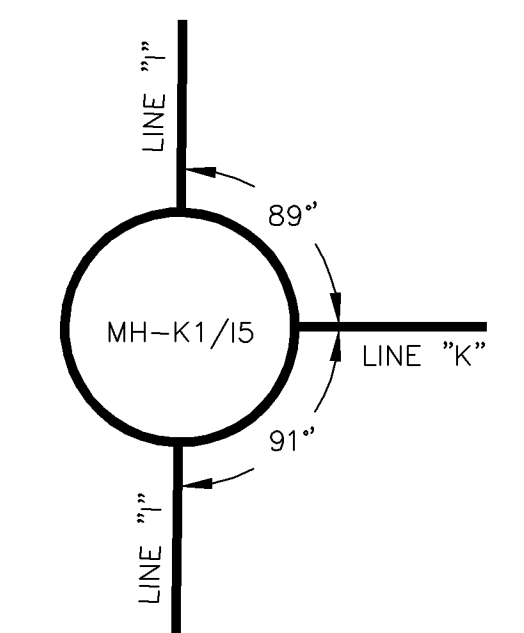
<table border="1"> <tr> <th>REVISION</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td>AS BUILT RECORDS</td> <td></td> <td>04-2007</td> </tr> </table>	REVISION	DESCRIPTION	DATE	AS BUILT RECORDS		04-2007	<table border="1"> <tr> <th>DESIGNED BY</th> <th>DATE</th> </tr> <tr> <td>DRD</td> <td>2005</td> </tr> <tr> <th>CHECKED BY</th> <th>DATE</th> </tr> <tr> <td>DRD</td> <td>2005</td> </tr> <tr> <th>APPROVED BY</th> <th>DATE</th> </tr> <tr> <td></td> <td></td> </tr> </table>	DESIGNED BY	DATE	DRD	2005	CHECKED BY	DATE	DRD	2005	APPROVED BY	DATE			<table border="1"> <tr> <th>PLAN</th> <th>PROFILE</th> </tr> <tr> <td>HORIZONTAL 0 5 10 20</td> <td>HORIZONTAL 0 5 10 20</td> </tr> <tr> <td></td> <td>VERTICAL 0 2.5 5</td> </tr> </table>	PLAN	PROFILE	HORIZONTAL 0 5 10 20	HORIZONTAL 0 5 10 20		VERTICAL 0 2.5 5	<p>CITY OF Grand Junction COLORADO</p>	<p>PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION</p>	<p>REED MESA SANITARY IMPROVEMENT DISTRICT LINE II - PLAN AND PROFILE STA 0+10 TO STA 1+39.63</p>	<p>02110930.TIF</p>
REVISION	DESCRIPTION	DATE																												
AS BUILT RECORDS		04-2007																												
DESIGNED BY	DATE																													
DRD	2005																													
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PLAN	PROFILE																													
HORIZONTAL 0 5 10 20	HORIZONTAL 0 5 10 20																													
	VERTICAL 0 2.5 5																													

CONSTRUCTION NOTES

- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 4 102.11 - 48" DIAMETER SHALLOW SANITARY SEWER MANHOLE (D ≤ 5'); INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS, LID SLAB IF REQUIRED, AND ADJUSTING TO FINAL GRADE. (SEE STD. DETAIL SS-03).
- 8a 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 9a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 9b 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES TWO SERVICE LINES PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 40c 202/102.10 - REMOVE EXISTING STORMWATER/IRRIGATION CULVERT. REPLACE WITH 8" C-900 DR-14. TRENCH WIDTH = OD+12" MIN; =OD+18" MAX. INSTALL TYPE A BEDDING MATERIAL TO SPRINGLINE; FLOWFILL SPRINGLINE TO BASE OF ASPHALT (100 LBS CEMENT/CY); GROUT SEAL/REPAIR AT EXISTING CONCRETE INLET/OUTLET STRUCTURE WHERE PRESENT; INCIDENTAL TO PAY ITEM. SEE CULVERT TABLE, SHEET 5.
- 46 210 - RESET POST/SIGN.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).



MANHOLE DEFLECTION ANGLES



REVISION Δ	DESCRIPTION	DATE	DRAWN BY	DAW/TLT	DATE	2005
REVISION Δ			DESIGNED BY	DRD	DATE	2005
REVISION Δ			CHECKED BY	DRD	DATE	2005
REVISION Δ	AS BUILT RECORDS	04-2007	APPROVED BY		DATE	



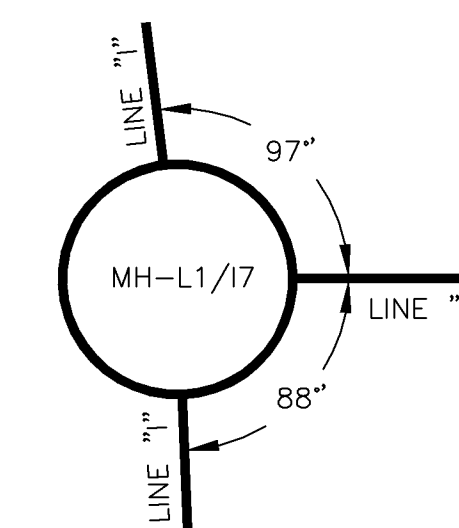
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
LINE "K" - PLAN AND PROFILE
STA 0+10 TO STA 1+62

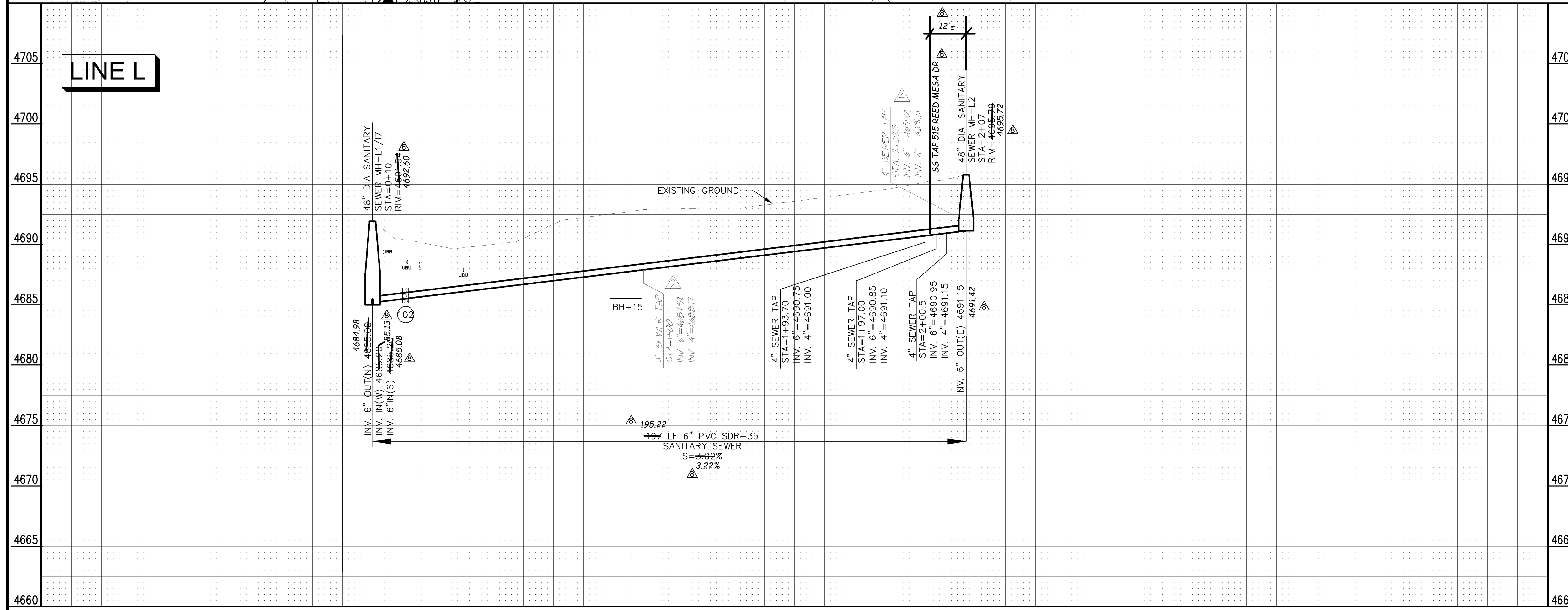
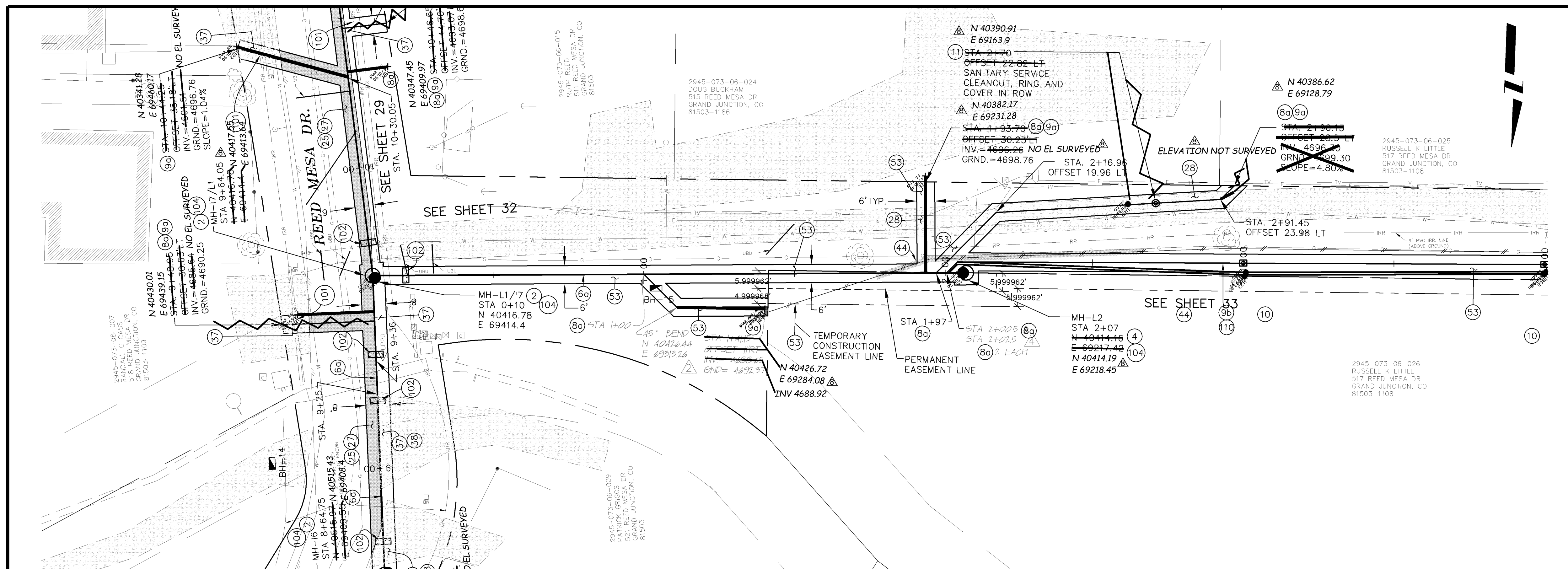
CONSTRUCTION NOTES

- ② 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- ④ SANITARY SEWER SHALLOW MANHOLE (D<5')(48" I.D.). INCLUDES LID SLAB IF REQUIRED.
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- ⑩ 104.2.B - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (OUTSIDE OF R.O.W.). INCLUDES IRRIGATION VALVE BOX.
- ⑪ 104.2.B - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (WITHIN R.O.W.). INCLUDES CLEANOUT RING AND COVER (SEE STD. DETAIL SS-07).
- ⑫ GCC56 - NEWSLETTER (APPROXIMATELY 170 PER DISTRIBUTION, MAILED WEEKLY).
- ⑲ 102.10 - REPAIR UN-LOCATED IRRIGATION/WATERLINE DAMAGED DURING CONSTRUCTION, INCLUDING ELECTRICAL SPLICING.
- ⑳ 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- ㉑ 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- ㉒ 304 - 6" CLASS 6 ABC FOR GRAVEL ROAD SURFACE COURSE. COMPACT TO 95% AASHTO T-180. PAID PER SY.
- ㉓ 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- ④④ 210 - RESET FENCE (ALL TYPES). (ALL TYPES).
- ⑤③ 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- ⑩① SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2' ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.
- ⑩② CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- ⑩④ 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO MANHOLE PAY ITEM.

MANHOLE DEFLECTION ANGLES



02110932.TIF



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A	PRECONSTRUCTION	9/21/09	DAW/TLT	2005
REVISION B	WORK CHANGE REQUEST #1	11/21/09	DRD	2005
REVISION C	AS BUILT RECORDS	04-2007	DRD	2005

SCALE:	PLAN	PROFILE
	HORIZONTAL 0 10 20	HORIZONTAL 0 10 20
	VERTICAL 0 5 10	VERTICAL 0 5 10

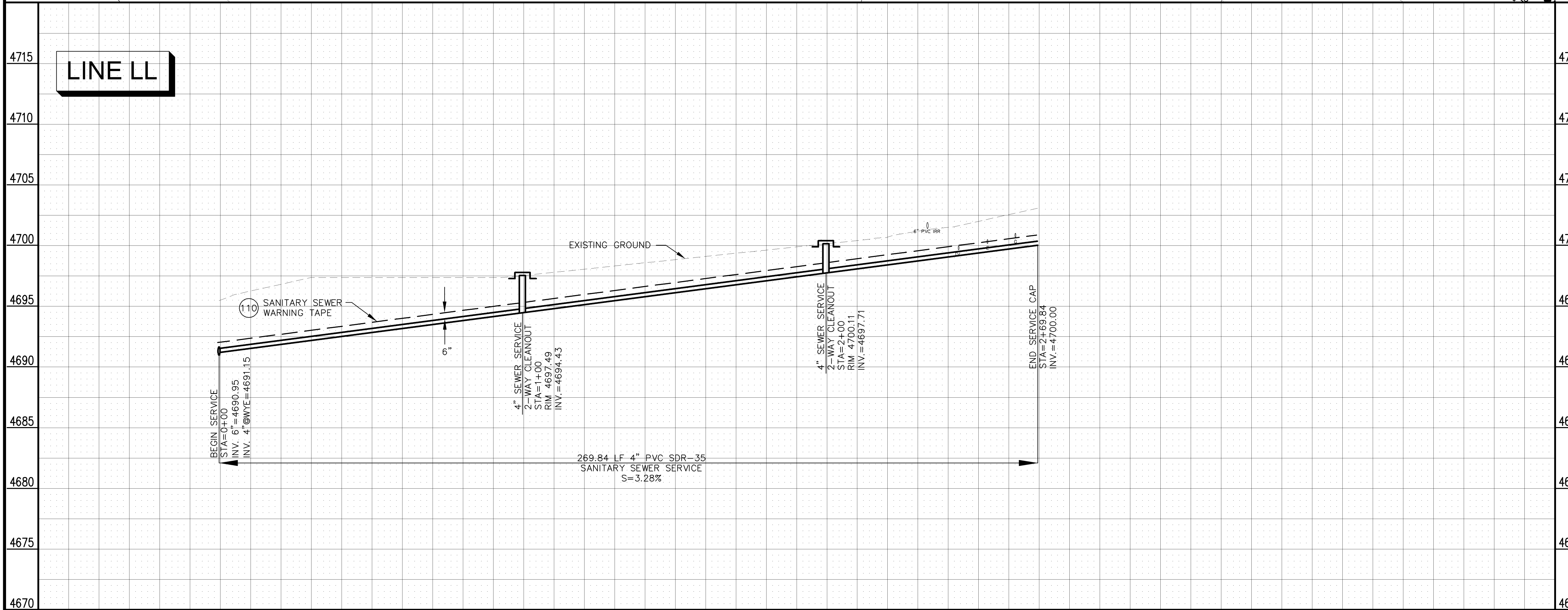
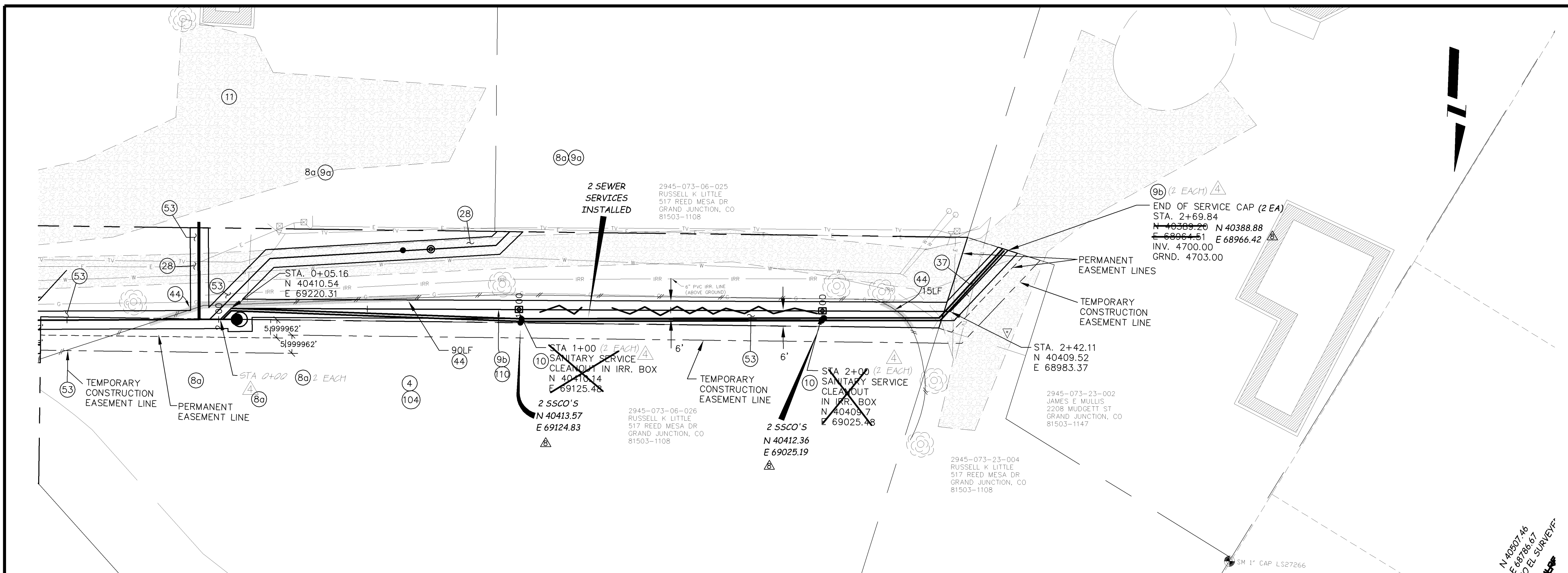


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
LINE L - PLAN AND PROFILE
STA 0+10 TO STA 2+07

CONSTRUCTION NOTES

- ② 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- ⑧a 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- ⑧b 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES TWO SERVICE LINES PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- ⑩ 104.2.B - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (OUTSIDE OF R.O.W.). INCLUDES IRRIGATION VALVE BOX.
- ⑪ 104.2.B - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (WITHIN R.O.W.). INCLUDES CLEANOUT RING AND COVER (SEE STD. DETAIL SS-07).
- ③7 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- ④④ 210 - RESET FENCE (ALL TYPES). (ALL TYPES).
- ⑤③ 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- ⑩⑩ INSTALL SANITARY SEWER WARNING TAPE, 6" - 12" ABOVE TOP OF SERVICE. INCIDENTAL TO COST OF SERVICE INSTALLATION.



LINE LL

0+00 1+00 2+00 3+00

REVISION	DESCRIPTION	DATE
REVISION A		
REVISION B	WORK CHANGE REQUEST #	11/22/09
REVISION C	AS BUILT RECORDS	04-2007

DESIGNED BY	DATE
DRD	2005
DRD	2005
DRD	2005

SCALE:	PLAN	PROFILE
	1" = 20'	1" = 10'
	1" = 10'	1" = 5'



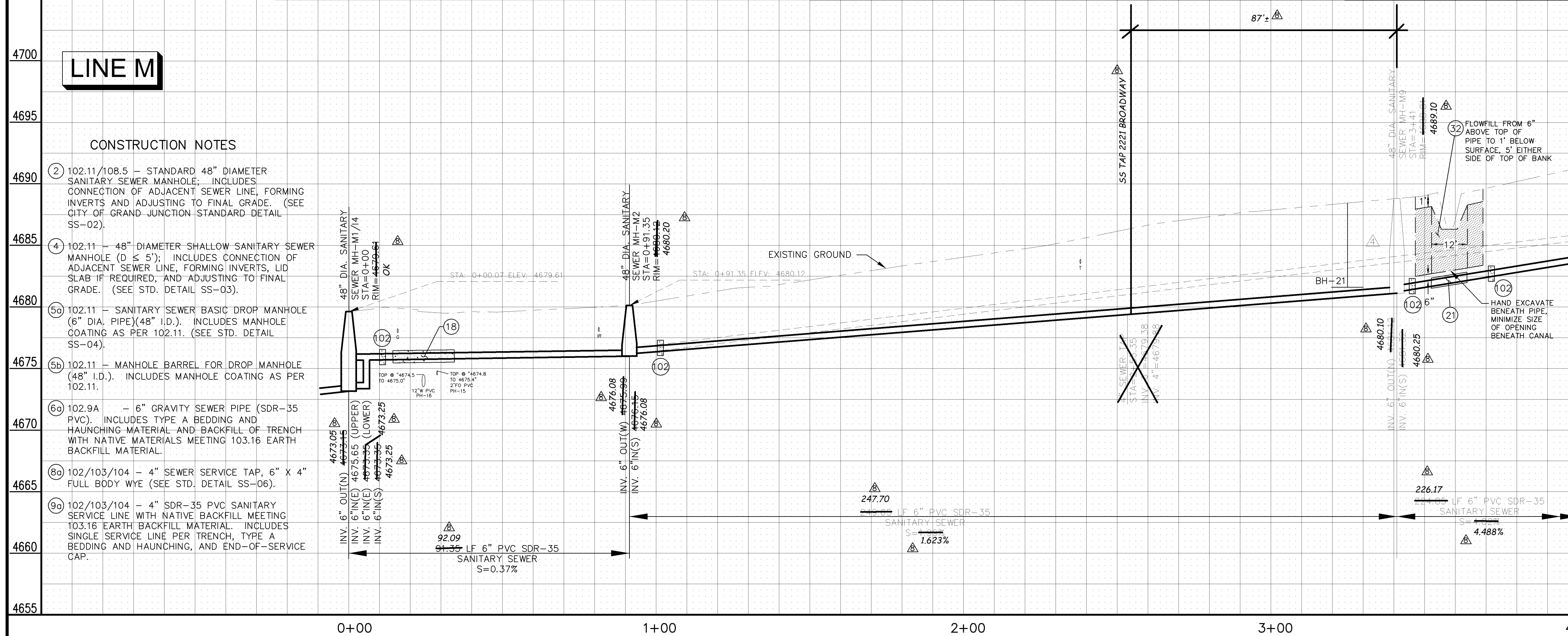
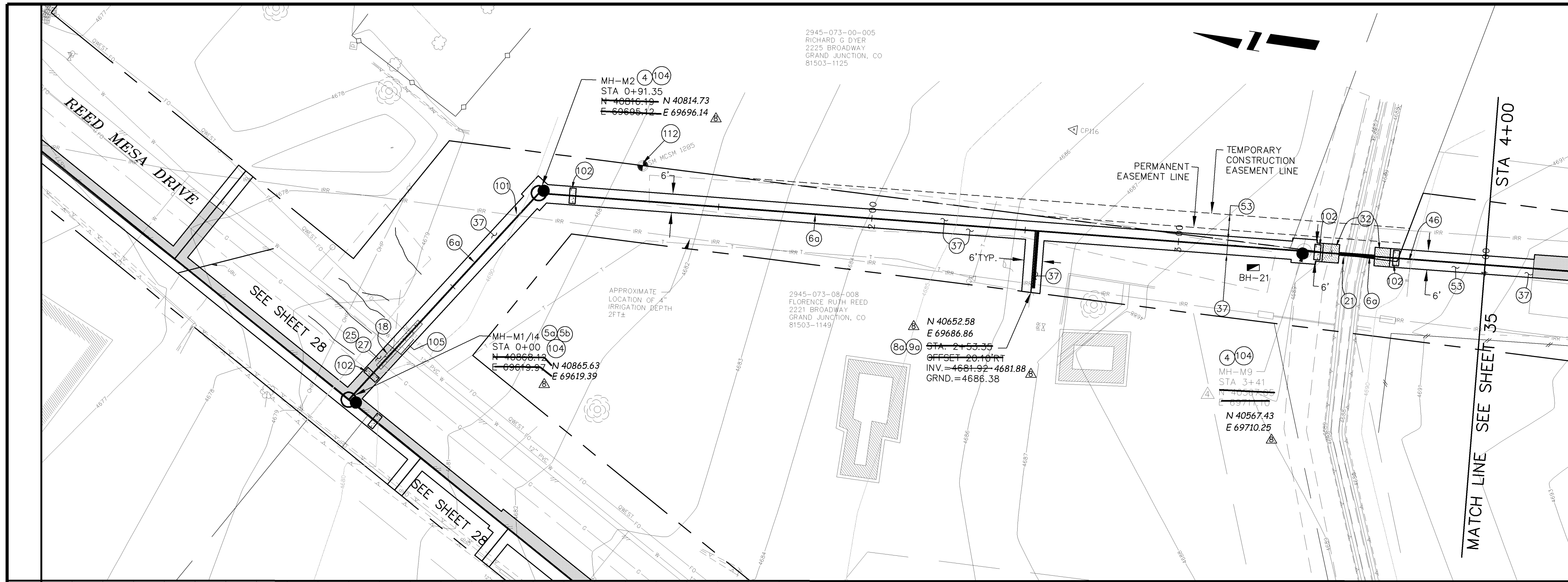
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
LINE LL - PLAN AND PROFILE
STA 0+00 TO STA 2+69.84

02110933.TIF

CONSTRUCTION NOTES

- (18) 104.4 - ENCASE ENTIRE SEWER IN REINFORCED CONCRETE PER STD. DETAIL GU-04.
- (21) 102/104.3.C - ENCLOSE 6-INCH SANITARY SEWER IN 10-INCH STEEL CASING PIPE W/ 0.25-INCH WALL THICKNESS BENEATH CANAL CROSSING. POLYETHYLENE CASING SPACERS REQUIRED.
- (25) 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- (27) 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- (32) 206.02/206.03 - STRUCTURE BACKFILL (FLOWFILL). PAID PER CY.
- (37) 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- (38) 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- (46) 210 - RESET POST/SIGN.
- (50) 210 - RESET STONE/ROCK/BRICK/MASONRY BORDER.
- (53) 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- (101) SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2' ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.
- (102) CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- (104) 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO MANHOLE PAY ITEM.
- (105) CONTRACTOR TO FIELD-VERIFY ELEVATION OF WATERLINE AND FIBER-OPTIC LINE AT 22 1/4 RD. AND REED MESA DR. INTERSECTION PRIOR TO LAYING SEWER FROM MH-13 TO MH-14.
- (112) PROTECT IN PLACE SURVEY MONUMENT.

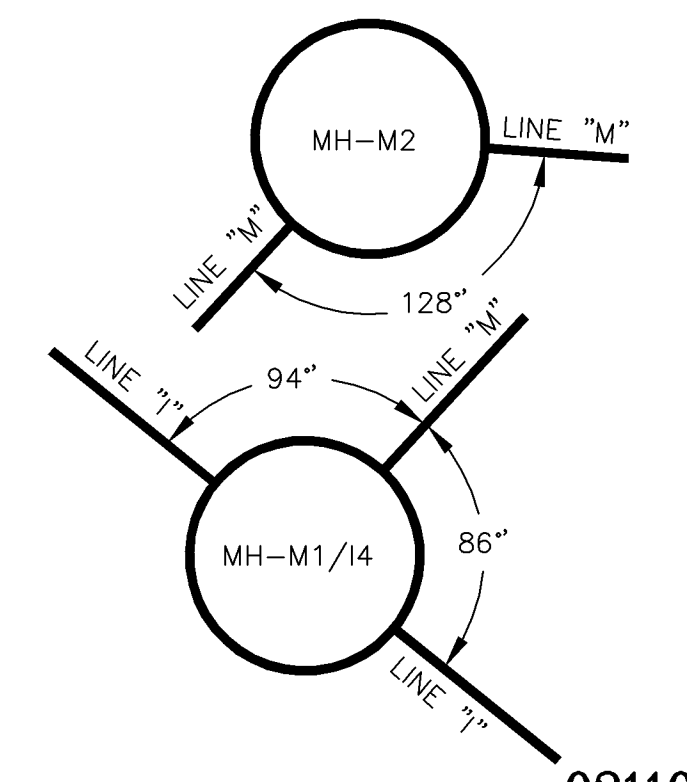


LINE M

CONSTRUCTION NOTES

- (2) 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- (4) 102.11 - 48" DIAMETER SHALLOW SANITARY SEWER MANHOLE (D ≤ 5'); INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS, LID SLAB IF REQUIRED, AND ADJUSTING TO FINAL GRADE. (SEE STD. DETAIL SS-03).
- (50) 102.11 - SANITARY SEWER BASIC DROP MANHOLE (6" DIA. PIPE)(48" I.D.). INCLUDES MANHOLE COATING AS PER 102.11. (SEE STD. DETAIL SS-04).
- (5b) 102.11 - MANHOLE BARREL FOR DROP MANHOLE (48" I.D.). INCLUDES MANHOLE COATING AS PER 102.11.
- (60) 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (80) 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- (90) 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.

MANHOLE DEFLECTION ANGLES



02110934.TIF

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A			DAW/TLT	2005
REVISION B			DRD	2005
REVISION C	WORK CHANGE REQUEST #1	11/22/05	DRD	2005
REVISION D	AS BUILT RECORDS	04-2007		

SCALE:	PLAN	PROFILE
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		VERTICAL 0 5 10

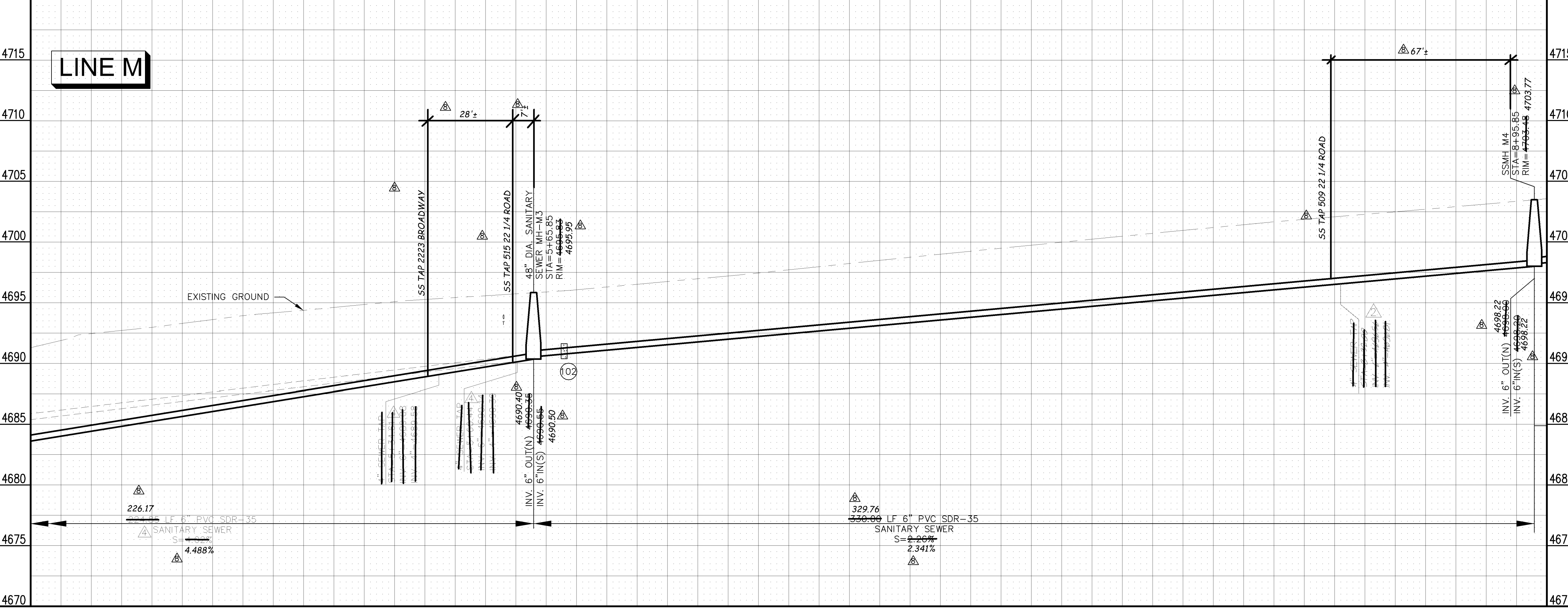
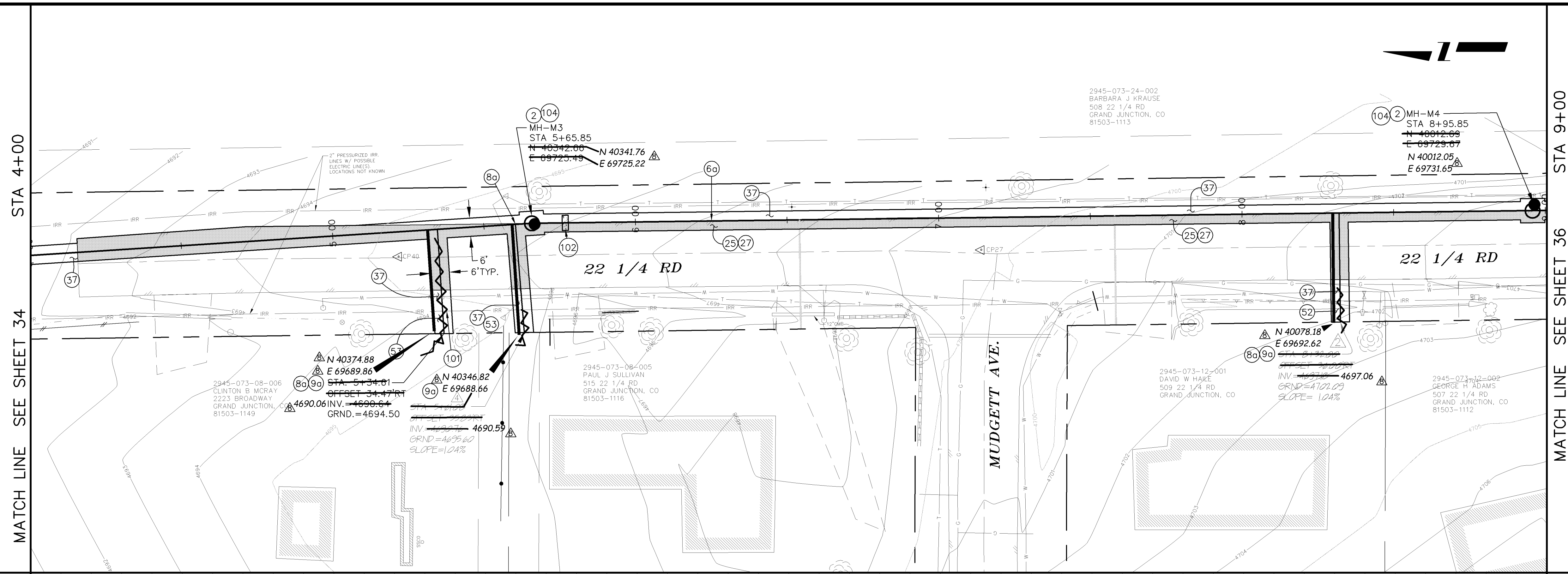


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

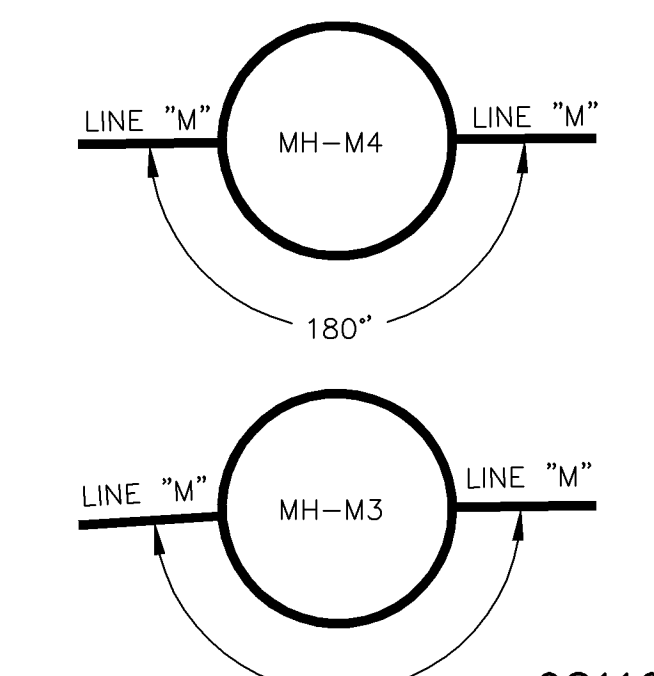
REED MESA SANITARY IMPROVEMENT DISTRICT
LINE M - PLAN AND PROFILE
STA 0+00 TO STA 4+00

CONSTRUCTION NOTES

- ② 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- ⑥0 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- ⑧0 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- ⑨0 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- ⑫5 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- ⑫7 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- ⑫7 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- ⑫2 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- ⑫3 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- ⑫1 ⑩1 SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2' ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.
- ⑫2 ⑩2 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- ⑫4 ⑩4 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.



MANHOLE DEFLECTION ANGLES



02110935.TIF

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
①	PRECONSTRUCTION	9/06/05	DAW/TLT	2005
②	WORK CHANGE REQUEST #1	11/22/05	DRD	2005
③	AS BUILT RECORDS	04-2007		

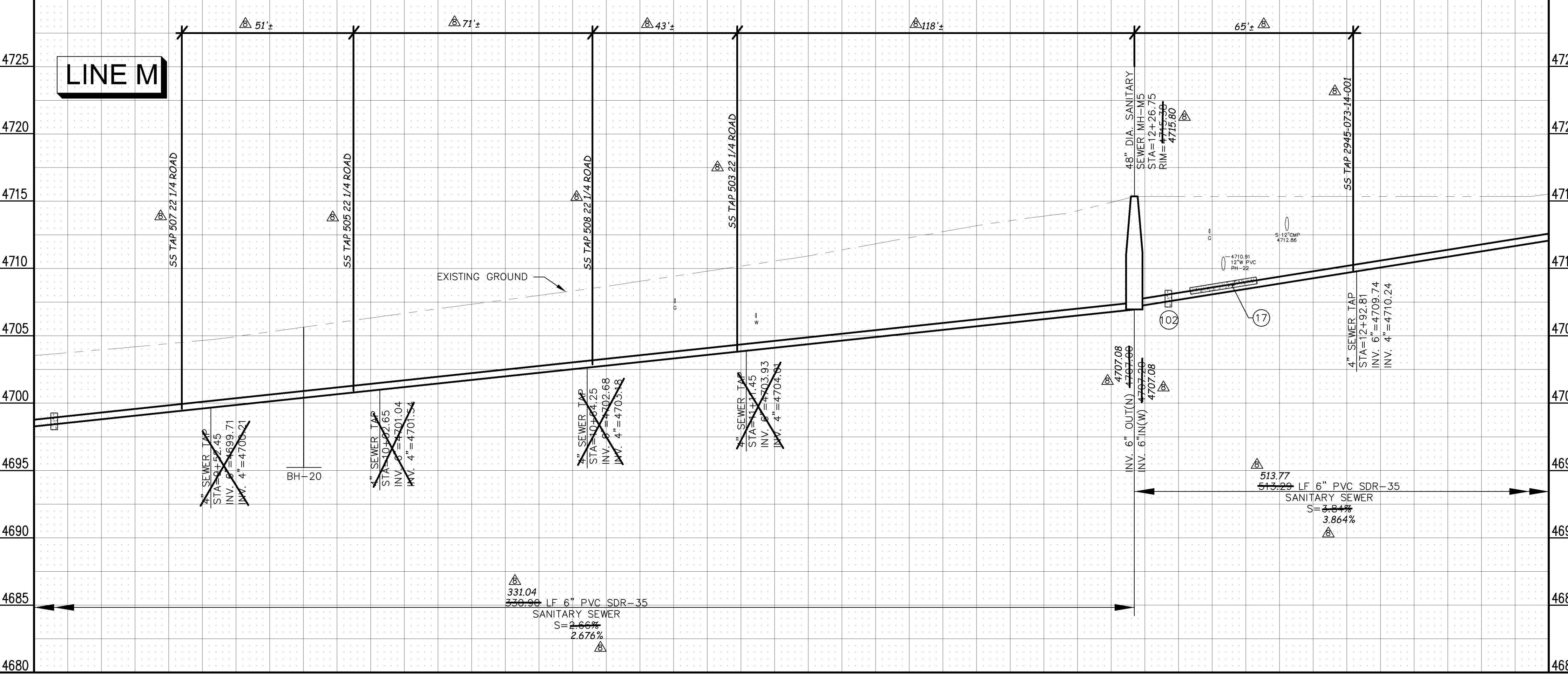
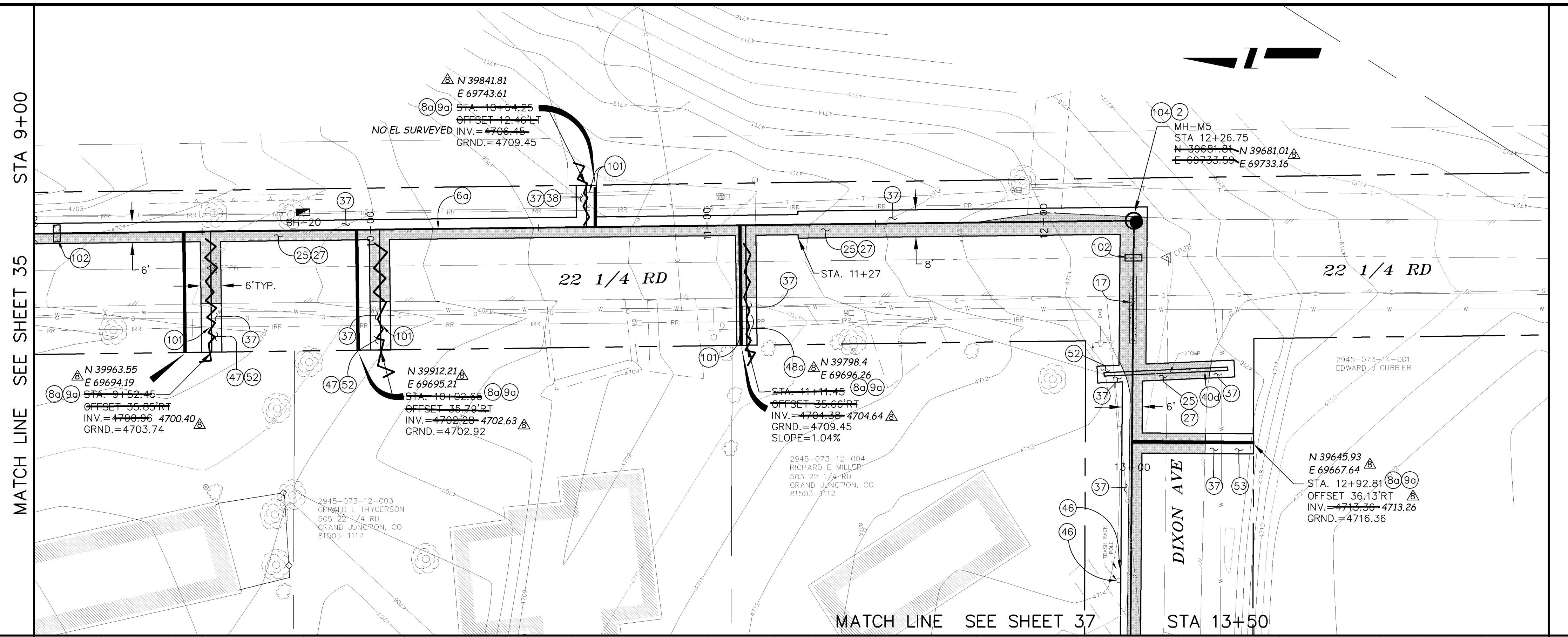
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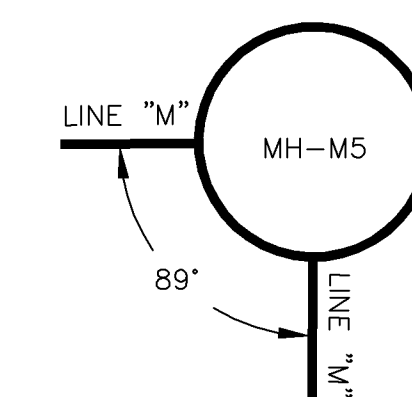
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
LINE M - PLAN AND PROFILE
STA 4+00 TO STA 9+00

- ② 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- ⑥0 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- ⑧0 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- ⑨0 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- ⑰ 104.4 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL GU-04.
- ⑳ 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- ㉑ 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- ㉒ 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- ㉔0 202/102.10 - REMOVE EXISTING STORMWATER/IRRIGATION STRUCTURE. REPLACE WITH 12" C-900 DR-14. TRENCH WIDTH = OD+12" MIN; =OD+18" MAX. INSTALL TYPE A BEDDING MATERIAL TO SPRINGLINE; FLOWFILL SPRINGLINE TO BASE OF ASPHALT (100 LBS CEMENT/CY); GROUT SEAL/REPAIR AT EXISTING CONCRETE INLET/OUTLET STRUCTURE WHERE PRESENT; INCIDENTAL TO PAY ITEM. SEE CULVERT TABLE, SHEET 5.
- ㉔0 210 - RESET LANDSCAPE APPURTENANCES (DECORATIVE ROCK, WOOD CHIPS, TREE BARK). MATCH EXISTING W/ MIN THICKNESS = 2". REUSE EXISTING IF KEPT FREE OF FINES/DETRITUS. LANDSCAPING FABRIC REQUIRED AND INCIDENTAL TO PAY ITEM. PAID PER SY.
- ㉔2 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- ⑩1 SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2' ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.
- ⑩2 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- ⑩4 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO MANHOLE PAY ITEM.



MANHOLE DEFLECTION ANGLES



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION 1			DAW/TLT	2005
REVISION 2			DRD	2005
REVISION 3			DRD	2005
REVISION 4	AS BUILT RECORDS	04-2007		

SCALE:	PLAN	PROFILE
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	VERTICAL 0 5 10	VERTICAL 0 5 10

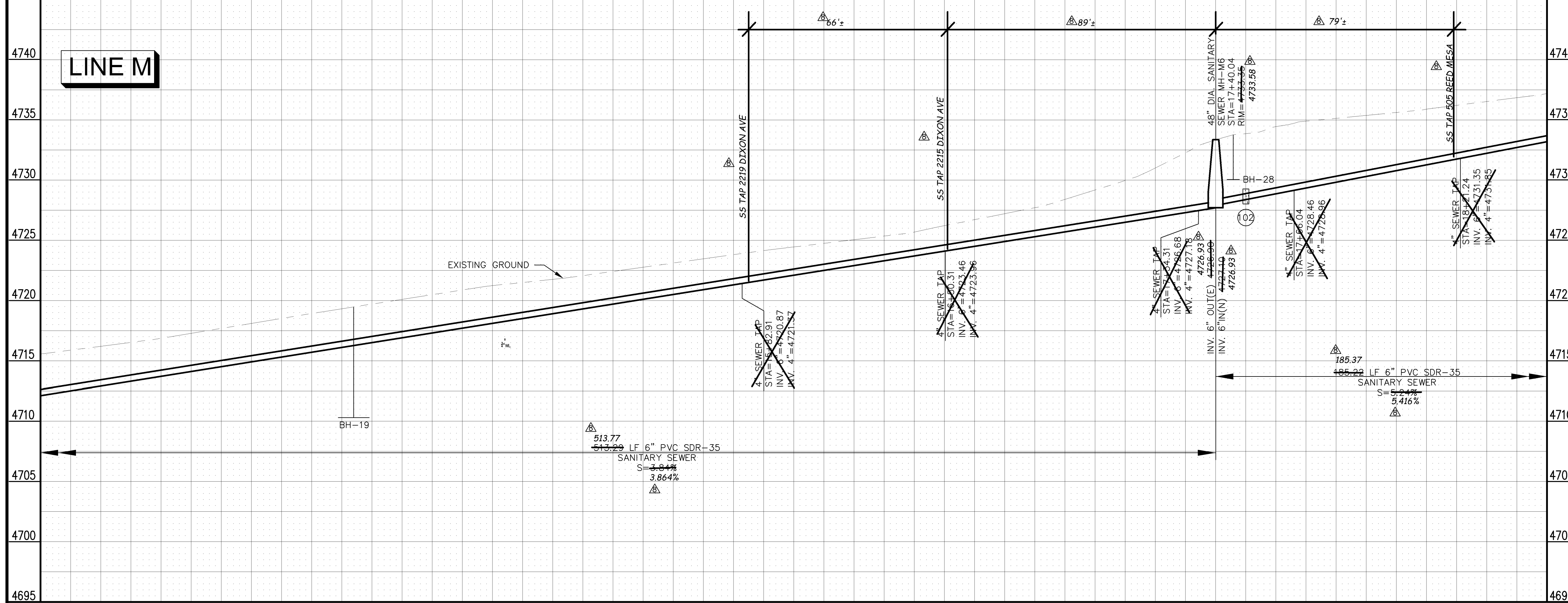
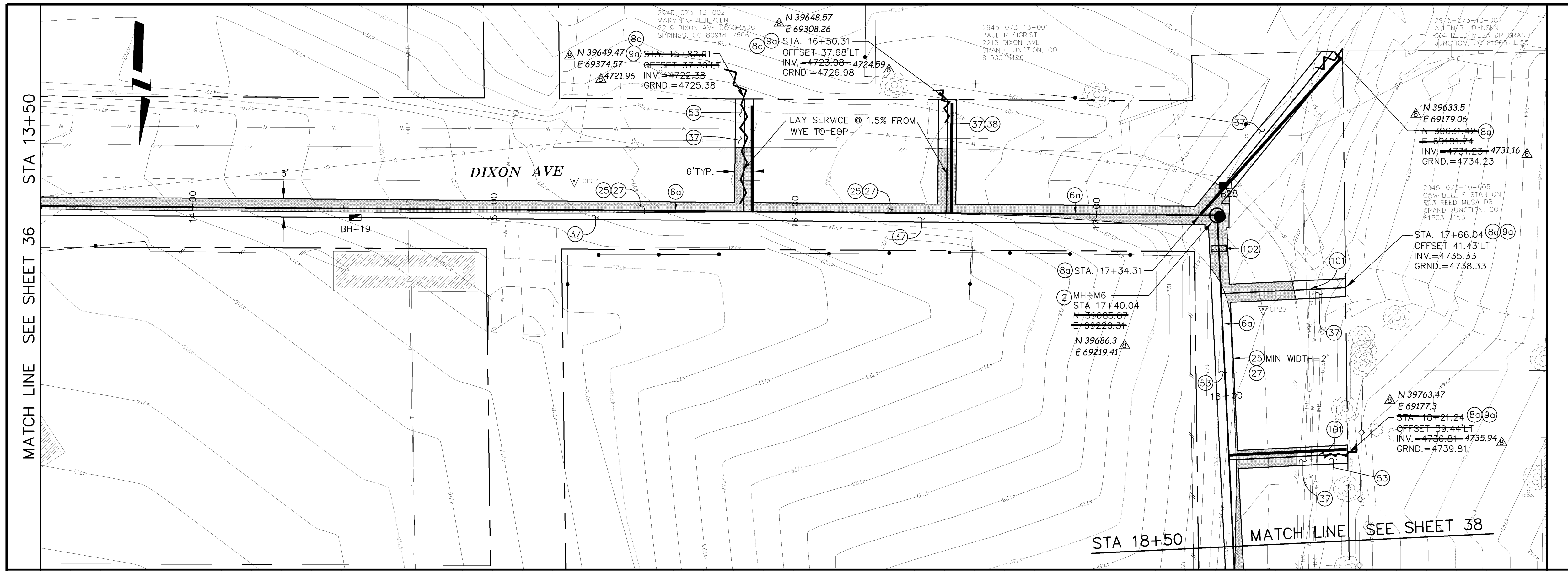


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

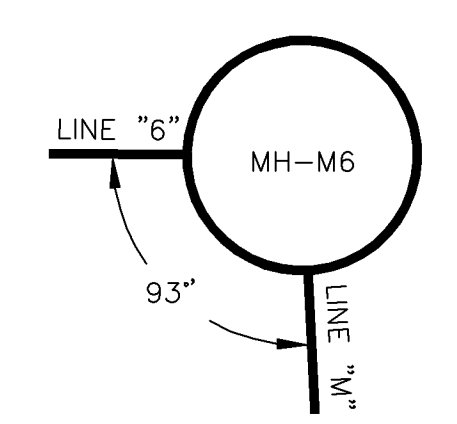
REED MESA SANITARY IMPROVEMENT DISTRICT
LINE M - PLAN AND PROFILE
STA 9+00 TO STA 13+50

CONSTRUCTION NOTES

- (2) 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- (60) 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (80) 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- (90) 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH. TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- (25) 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- (27) 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- (37) 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- (53) 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- (101) SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2' ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.
- (102) CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).



MANHOLE DEFLECTION ANGLES



13+50 14+00 15+00 16+00 17+00 18+00 18+50

REVISION	DESCRIPTION	DATE
REVISION A		
REVISION B		
REVISION C		
REVISION D	AS BUILT RECORDS	04-2007

DRAWN BY	DAW/TLT	DATE	2005
DESIGNED BY	DRD	DATE	2005
CHECKED BY	DRD	DATE	2005
APPROVED BY		DATE	

SCALE:	
PLAN	PROFILE
HORIZONTAL 0 5 10 20	HORIZONTAL 0 5 10 20
	VERTICAL 0 5 10



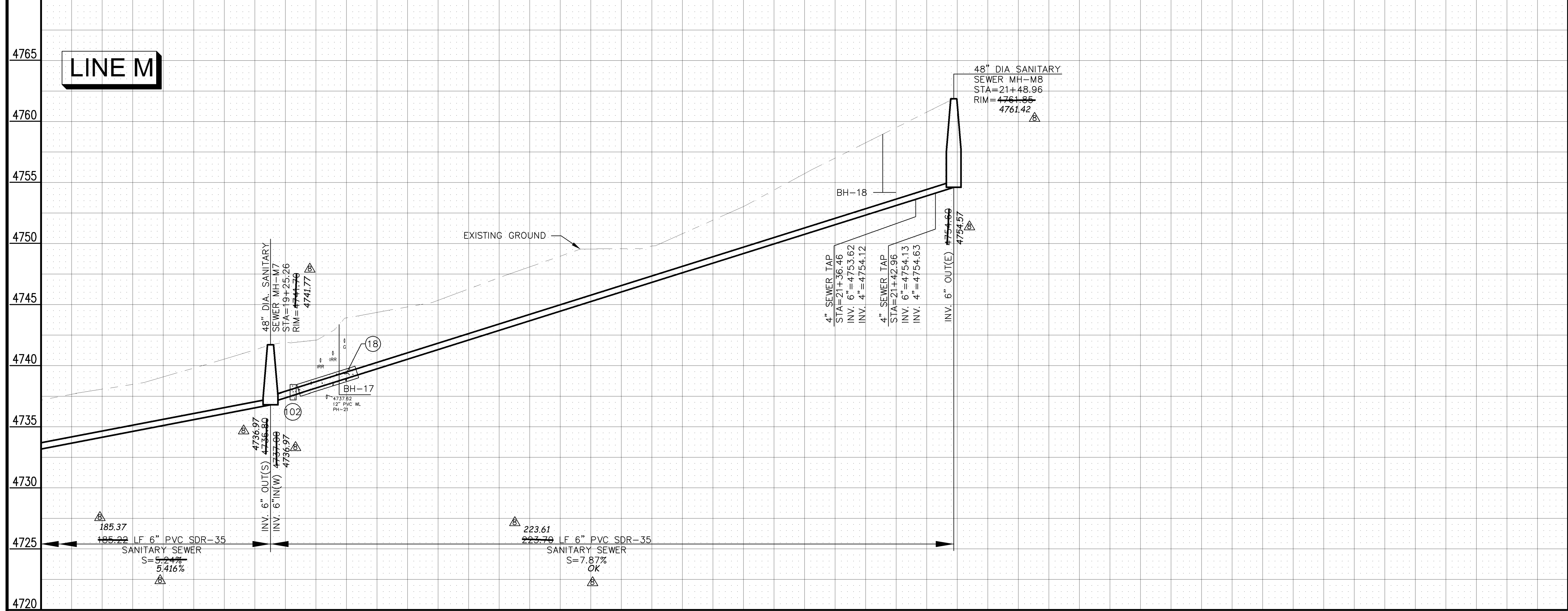
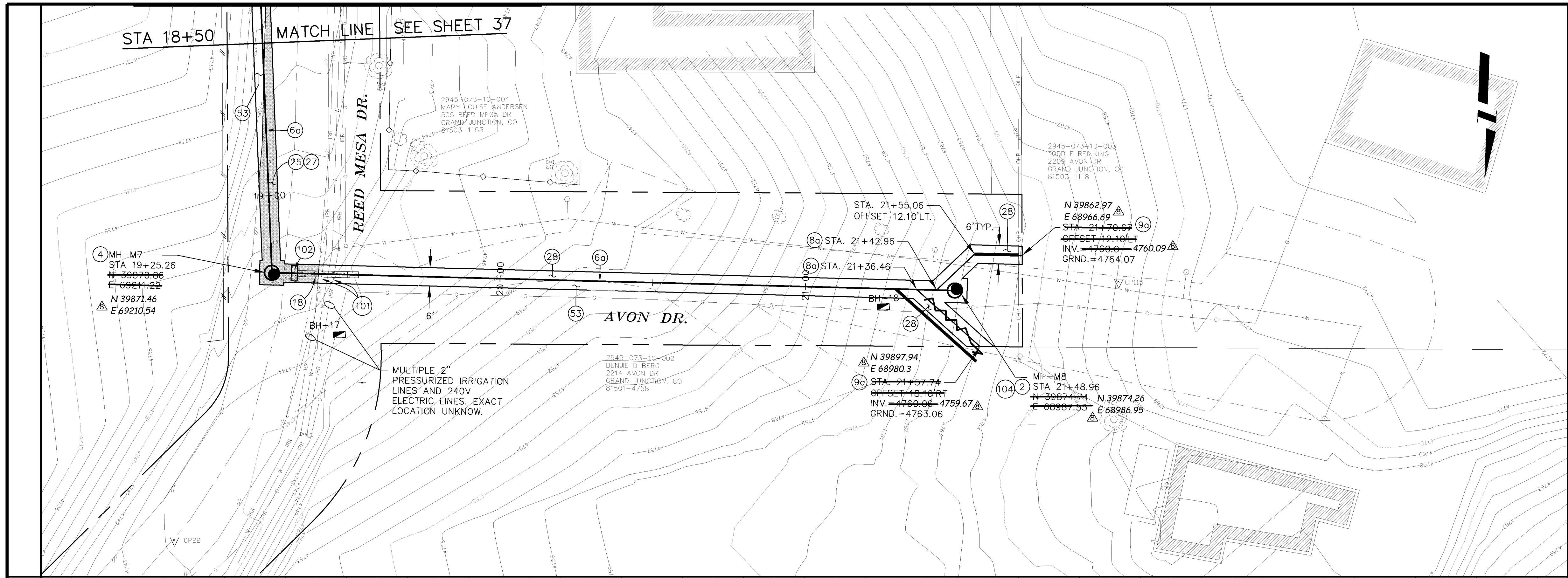
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
LINE M - PLAN AND PROFILE
STA 13+50 TO STA 18+50

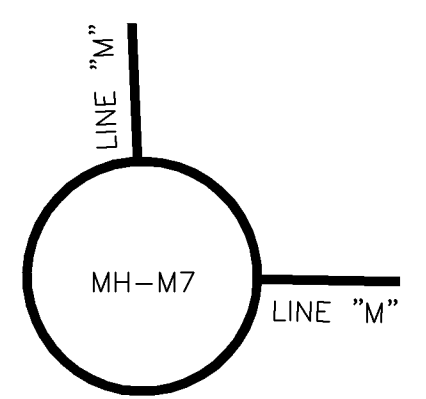
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CONSTRUCTION NOTES

- (2) 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- (6a) 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (8a) 102/103/104 - 4" SEWER SERVICE TAP. 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- (9a) 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- (18) 104.4 - ENCASE ENTIRE SEWER IN REINFORCED CONCRETE PER STD. DETAIL GU-04.
- (25) 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- (27) 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- (28) 304 - 6" CLASS 6 ABC FOR GRAVEL ROAD SURFACE COURSE. COMPACT TO 95% AASHTO T-180. PAID PER SY.
- (53) 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- (101) SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2' ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.
- (102) CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- (104) 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO MANHOLE PAY ITEM.



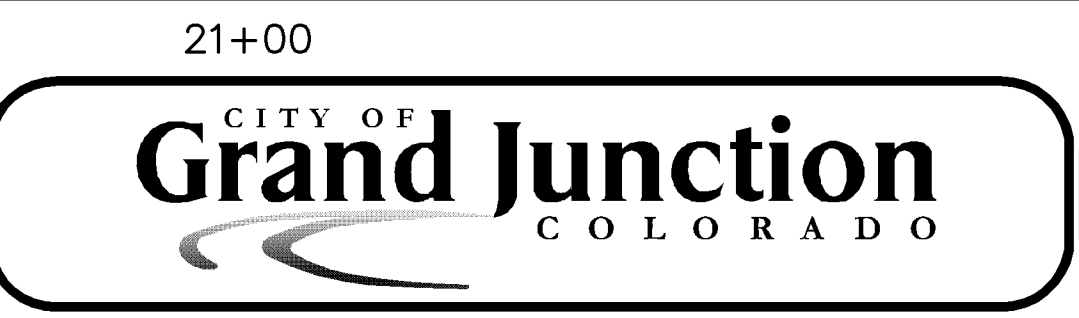
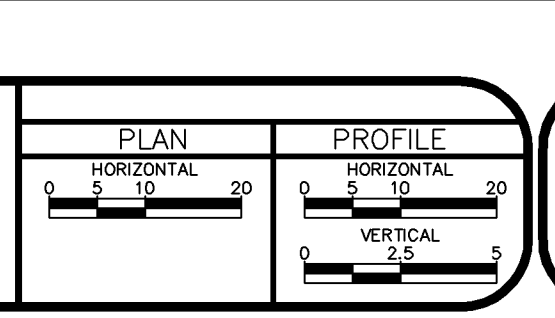
MANHOLE DEFLECTION ANGLES



02110938.TIF

REVISION	DESCRIPTION	DATE
AS BUILT RECORDS		04-2007

DRAWN BY	DAW/TLT	DATE	2005
DESIGNED BY	DRD	DATE	2005
CHECKED BY	DRD	DATE	2005
APPROVED BY		DATE	



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

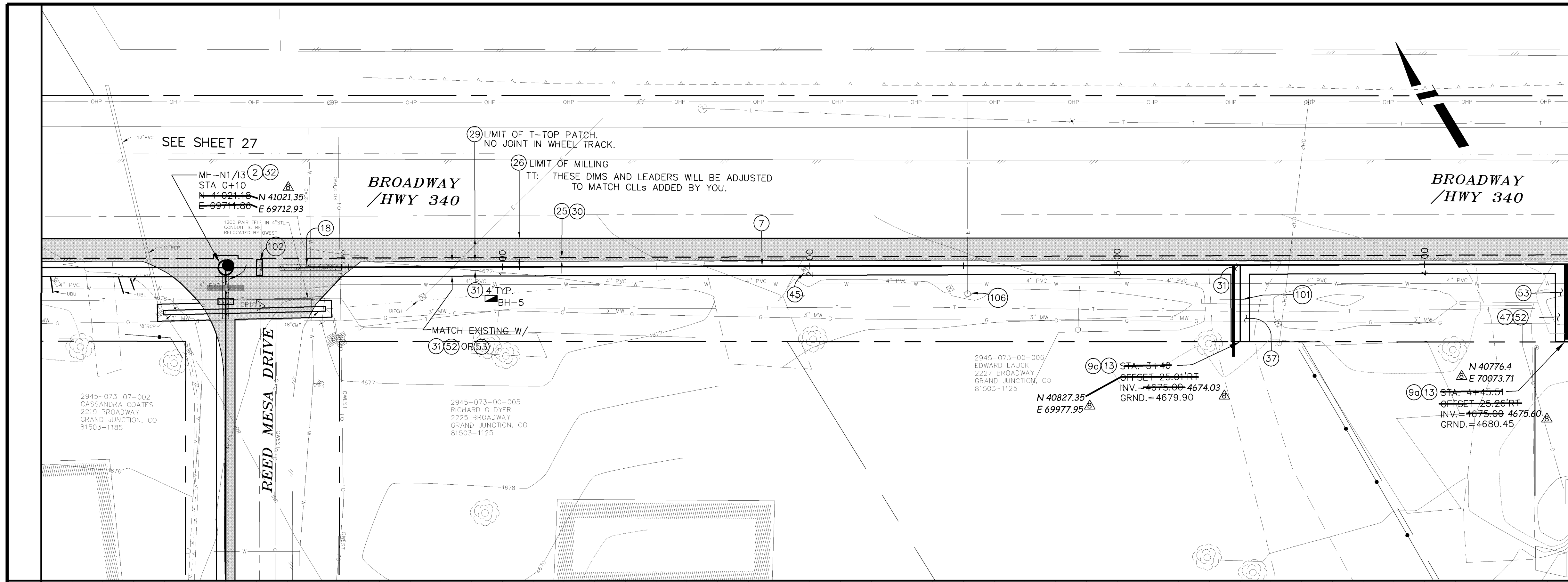
**REED MESA SANITARY IMPROVEMENT DISTRICT
LINE M - PLAN AND PROFILE
STA 18+50 TO STA 21+48.96**

CONSTRUCTION NOTES

- 13 102/103/104 - 4" SEWER SERVICE TAP, 6" IPS SDR-26 X 4" SDR-35, FULL BODY WYE, (SEE STD. DETAIL SS-06). INCLUDES EBAA IRON SERIES 6500 JOINT RESTRAINTS.
- 18 104.4 - ENCASE ENTIRE SEWER IN REINFORCED CONCRETE PER STD. DETAIL GU-04.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 26 103.3 - ASPHALT REMOVAL FOR T-TOP PATCHING OF HWY. 340 (MILLING): REMOVE ASPHALT AND FLOWFILL BY MILLING.
- 29 103.18/401 - PAVEMENT REPLACEMENT ON HWY 340: HOT BITUMINOUS PAVEMENT, GRADING SX SUPERPAVE 75-GYRATION, BINDER GRADE PG 64-28.
- 30 304 - 12" CLASS 6 ABC FOR HWY 340 ROAD BASE. COMPACT IN 6" LIFTS TO 95% AASHTO T-180.
- 31 304 - 12" CLASS 6 ABC FOR HWY 340 SHOULDER GRAVEL. COMPACT IN 6" LIFTS TO 90% AASHTO T-180. PAID PER TON.
- 32 206.02/206.03 - STRUCTURE BACKFILL (FLOWFILL). PAID PER CY.
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 45 210 - RESET MAILBOX.
- 47 210 - RESET IRRIGATION SYSTEM COMPONENTS (PER EACH PROPERTY).
- 52 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 101 SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2' ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.
- 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- 106 PROTECT/STABILIZE POLE, POST, SIGN.

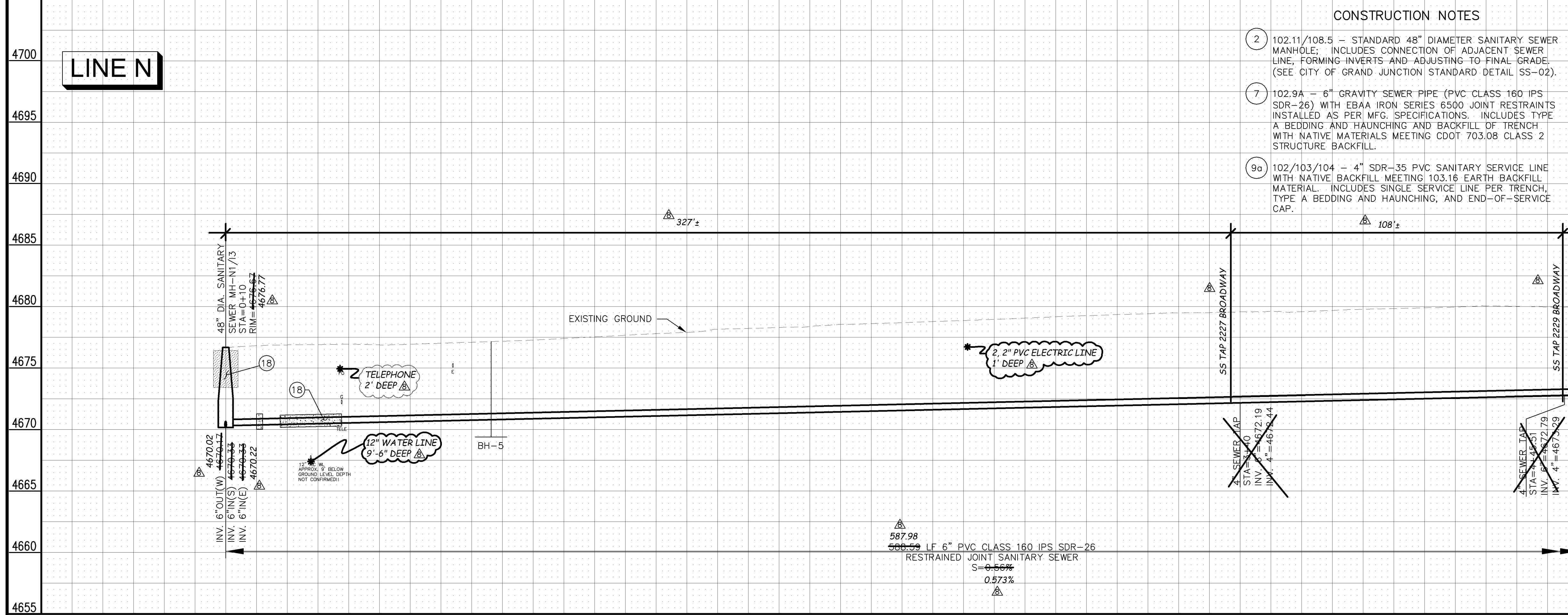
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STA 4+50

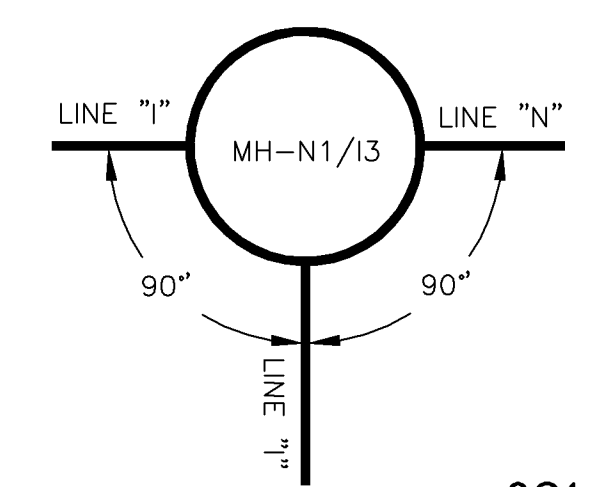


CONSTRUCTION NOTES

- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE, INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 7 102.9A - 6" GRAVITY SEWER PIPE (PVC CLASS 160 IPS SDR-26) WITH EBAA IRON SERIES 6500 JOINT RESTRAINTS INSTALLED AS PER MFG. SPECIFICATIONS. INCLUDES TYPE A BEDDING AND HAUNCHING AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING CDOT 703.08 CLASS 2 STRUCTURE BACKFILL.
- 9a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.



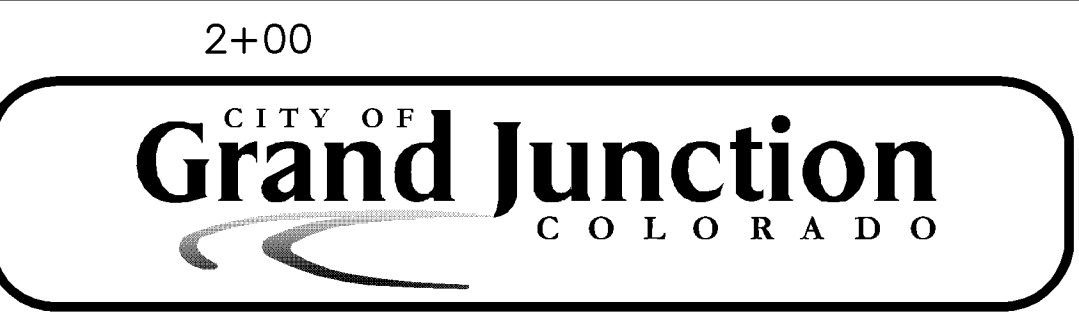
MANHOLE DEFLECTION ANGLES



02110939.TIF

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
AS BUILT RECORDS		04-2007		

PLAN	PROFILE
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	VERTICAL 0 2.5 5

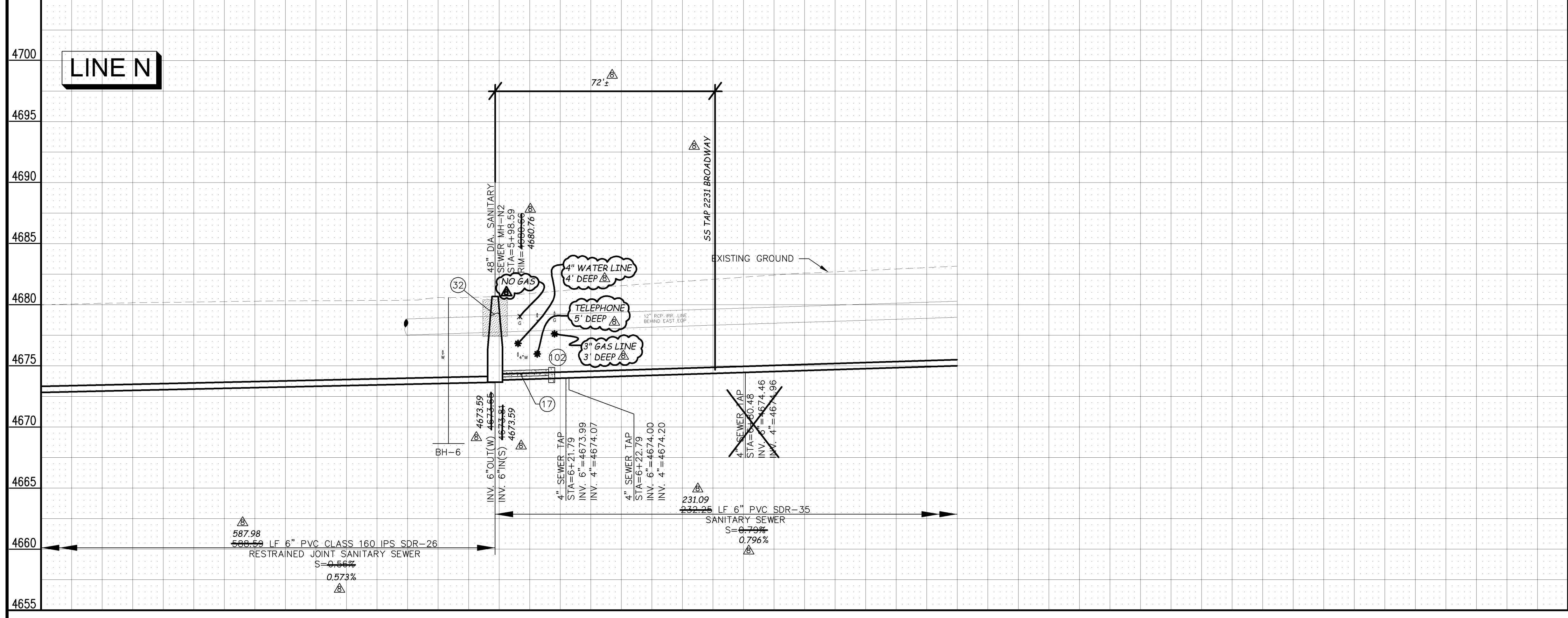
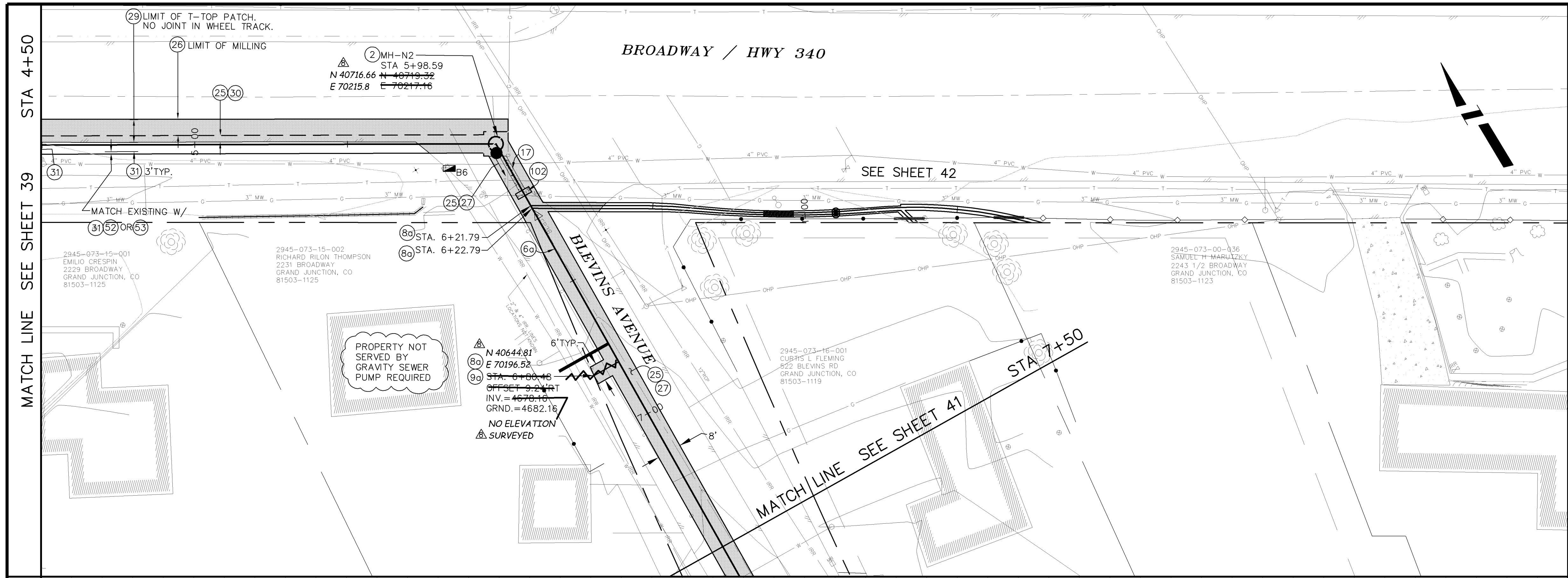


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

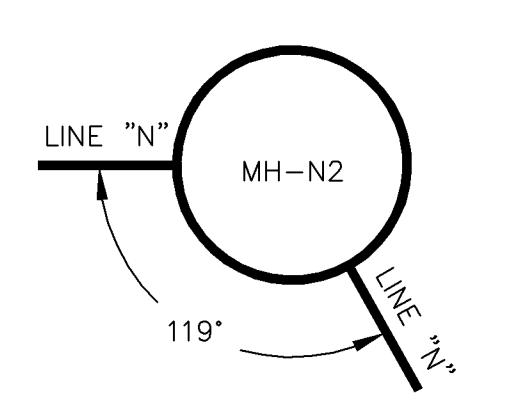
REED MESA SANITARY IMPROVEMENT DISTRICT
LINE N - PLAN AND PROFILE
STA 0+10 TO STA 4+50

CONSTRUCTION NOTES

- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 6a 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 8a 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 9a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 17 104.4 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL GU-04.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 26 103.3 - ASPHALT REMOVAL FOR T-TOP PATCHING OF HWY. 340 (MILLING): REMOVE ASPHALT AND FLOWFILL BY MILLING.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 29 103.18/401 - PAVEMENT REPLACEMENT ON HWY 340: HOT BITUMINOUS PAVEMENT, GRADING SX SUPERPAVE 75-GYRATION, BINDER GRADE PG 64-28.
- 30 304 - 12" CLASS 6 ABC FOR HWY 340 ROAD BASE. COMPACT IN 6" LIFTS TO 95% AASHTO T-180.
- 31 304 - 12" CLASS 6 ABC FOR HWY 340 SHOULDER GRAVEL. COMPACT IN 6" LIFTS TO 90% AASHTO T-180. PAID PER TON.
- 52 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).



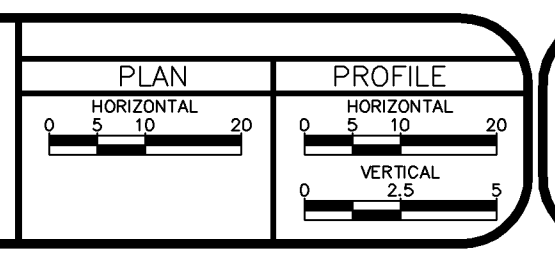
MANHOLE DEFLECTION ANGLES



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REVISION	DESCRIPTION	DATE
REVISION A		
REVISION B		
REVISION C		
REVISION D	AS BUILT RECORDS	04-2007

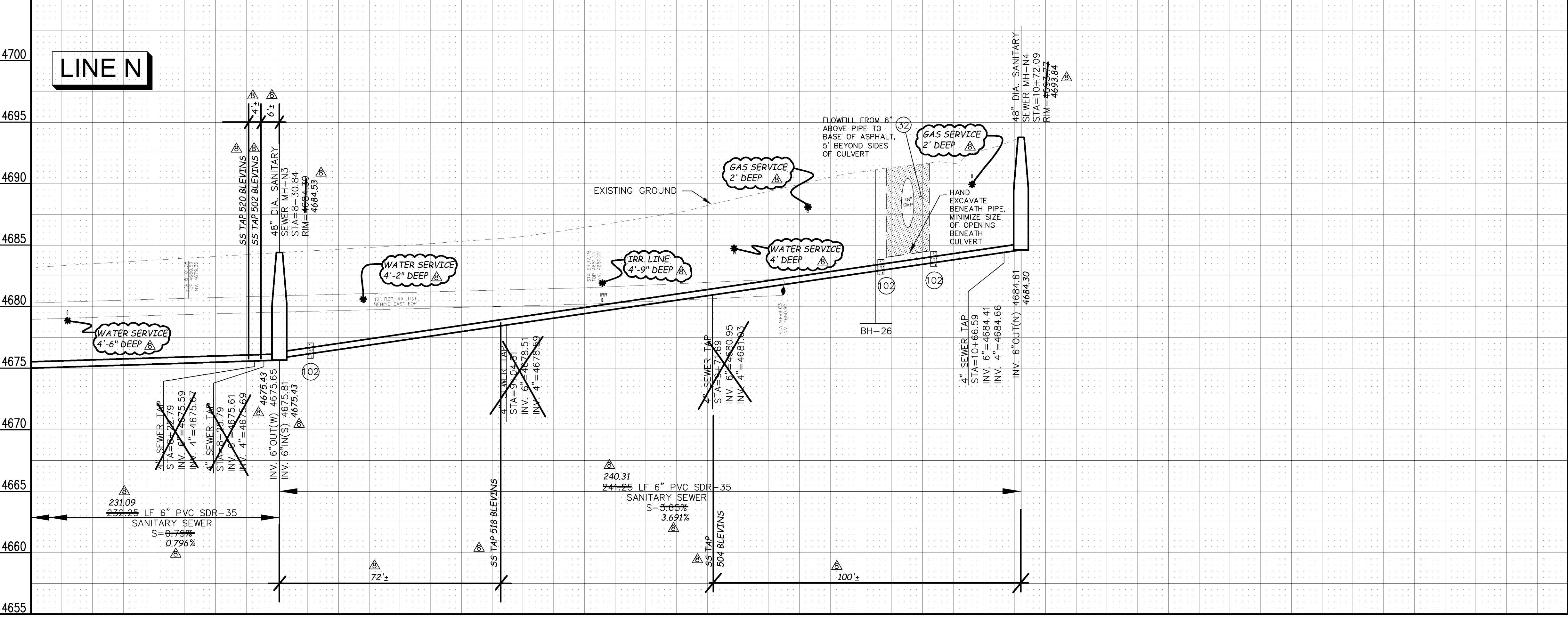
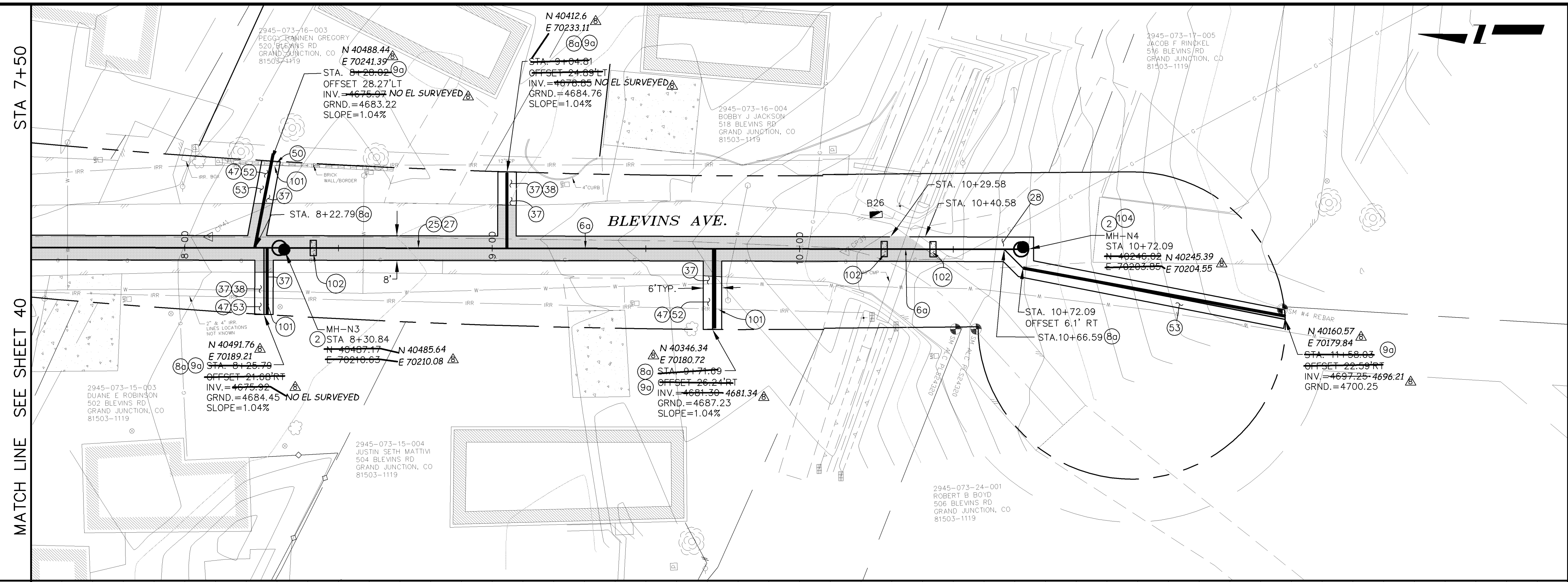
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DESIGNED BY	DRD	DATE	2005
CHECKED BY	DRD	DATE	2005
APPROVED BY		DATE	



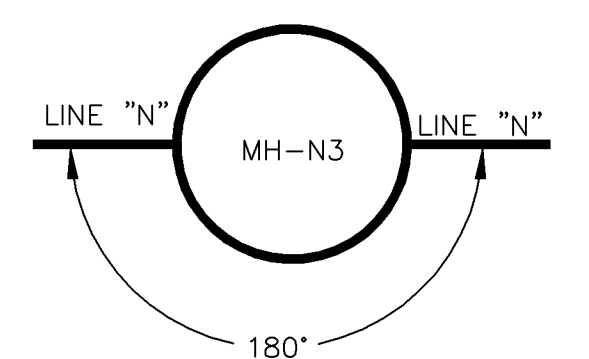
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
LINE N - PLAN AND PROFILE
STA 4+50 TO STA 7+50

- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 60 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 80 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 90 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 28 304 - 6" CLASS 6 ABC FOR GRAVEL ROAD SURFACE COURSE. COMPACT TO 95% AASHTO T-180. PAID PER CY.
- 32 206.02/206.03 - STRUCTURE BACKFILL (FLOWFILL). PAID PER CY.
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 38 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- 47 210 - RESET IRRIGATION SYSTEM COMPONENTS (PER EACH PROPERTY).
- 50 210 - RESET STONE/ROCK/BRICK/MASONRY BORDER.
- 52 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 101 SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2' ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.
- 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).
- 104 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO MANHOLE PAY ITEM.

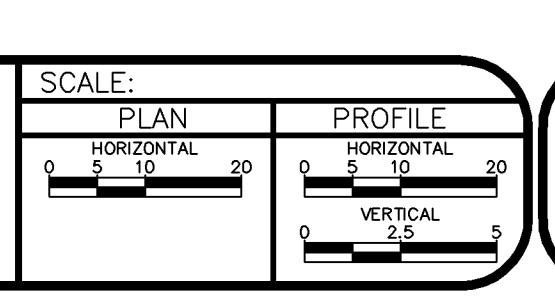


MANHOLE DEFLECTION ANGLES



REVISION	DESCRIPTION	DATE
AS BUILT RECORDS		04-2007

DRAWN BY	DAW/TLT	DATE	2005
DESIGNED BY	DRD	DATE	2005
CHECKED BY	DRD	DATE	2005
APPROVED BY		DATE	

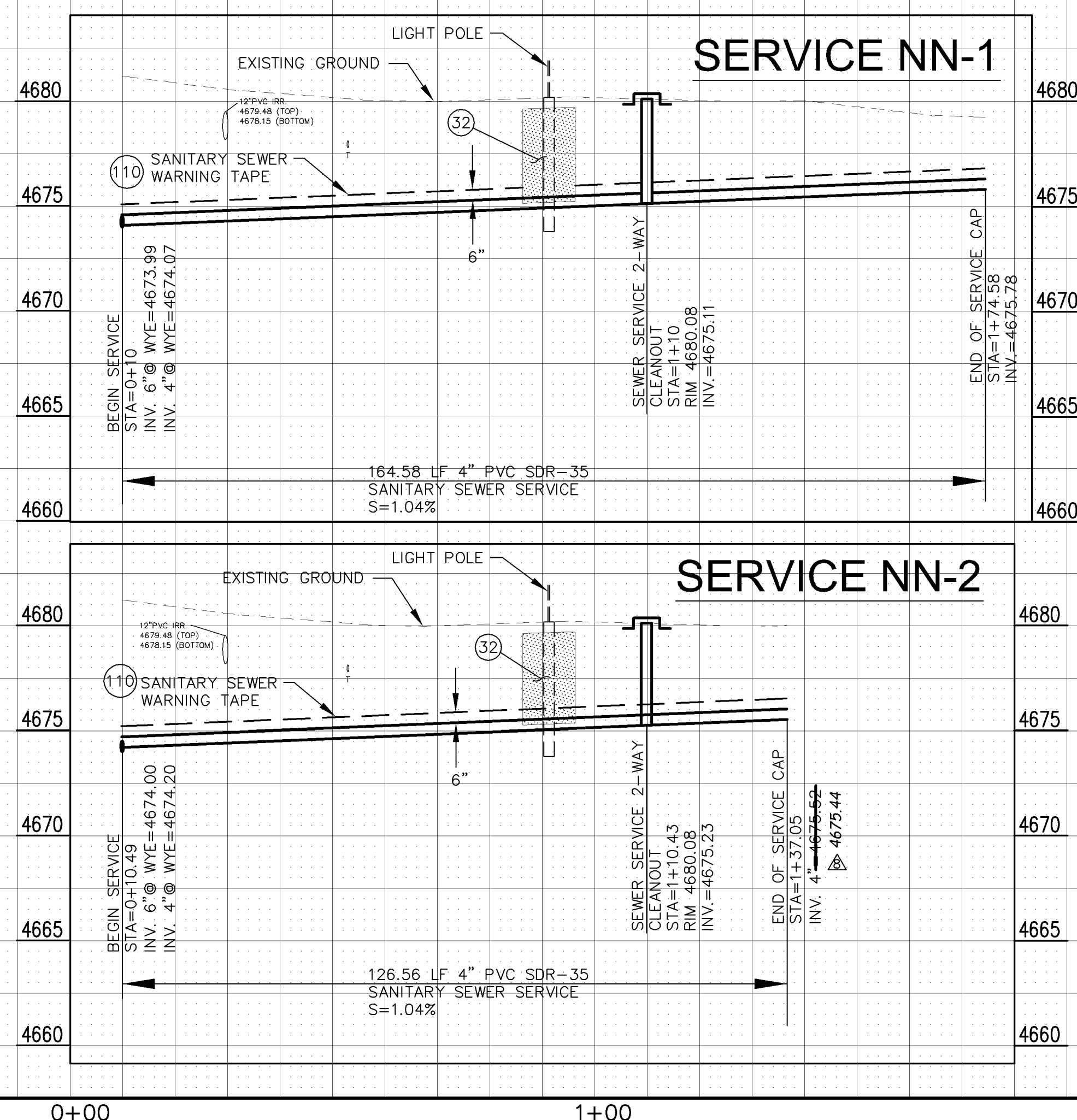
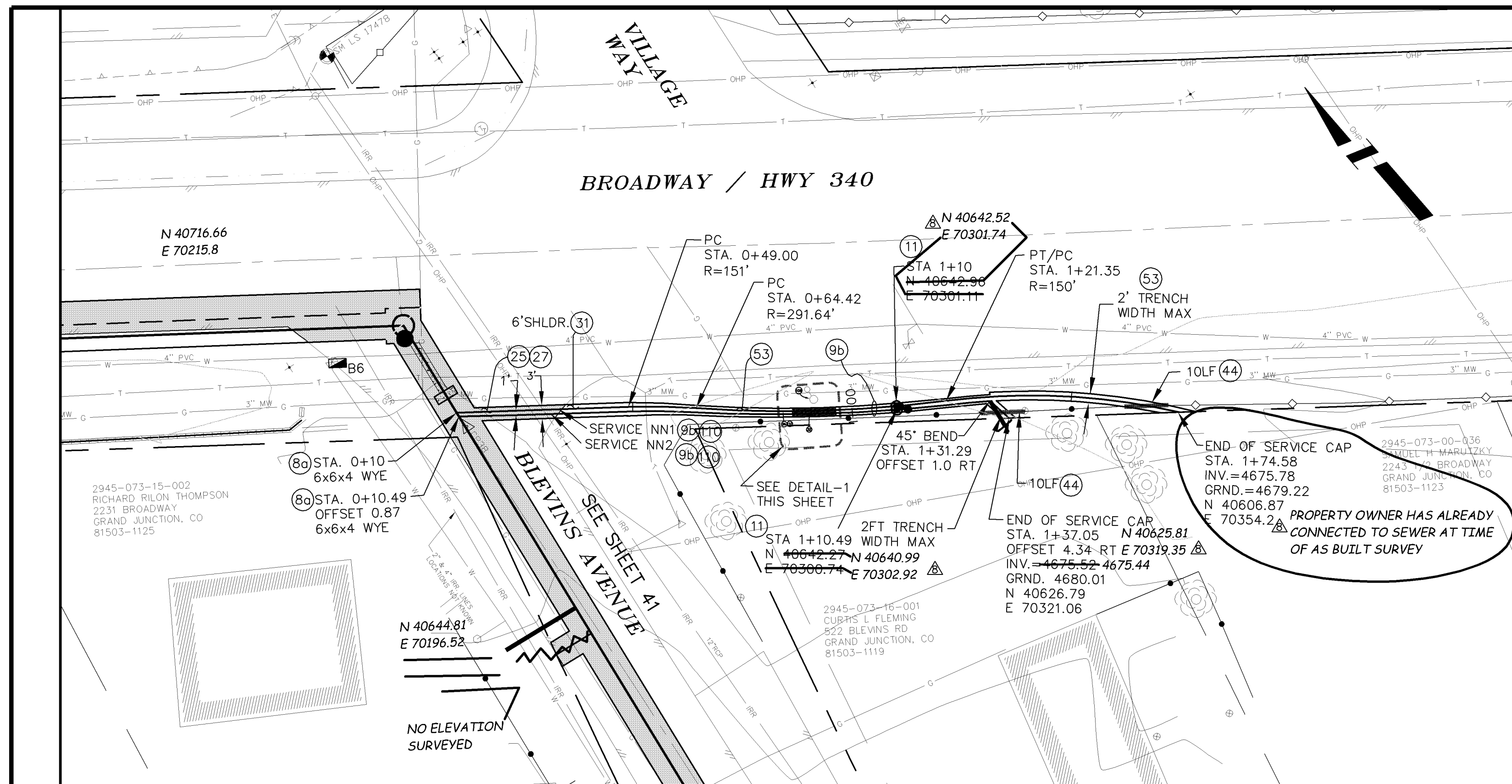
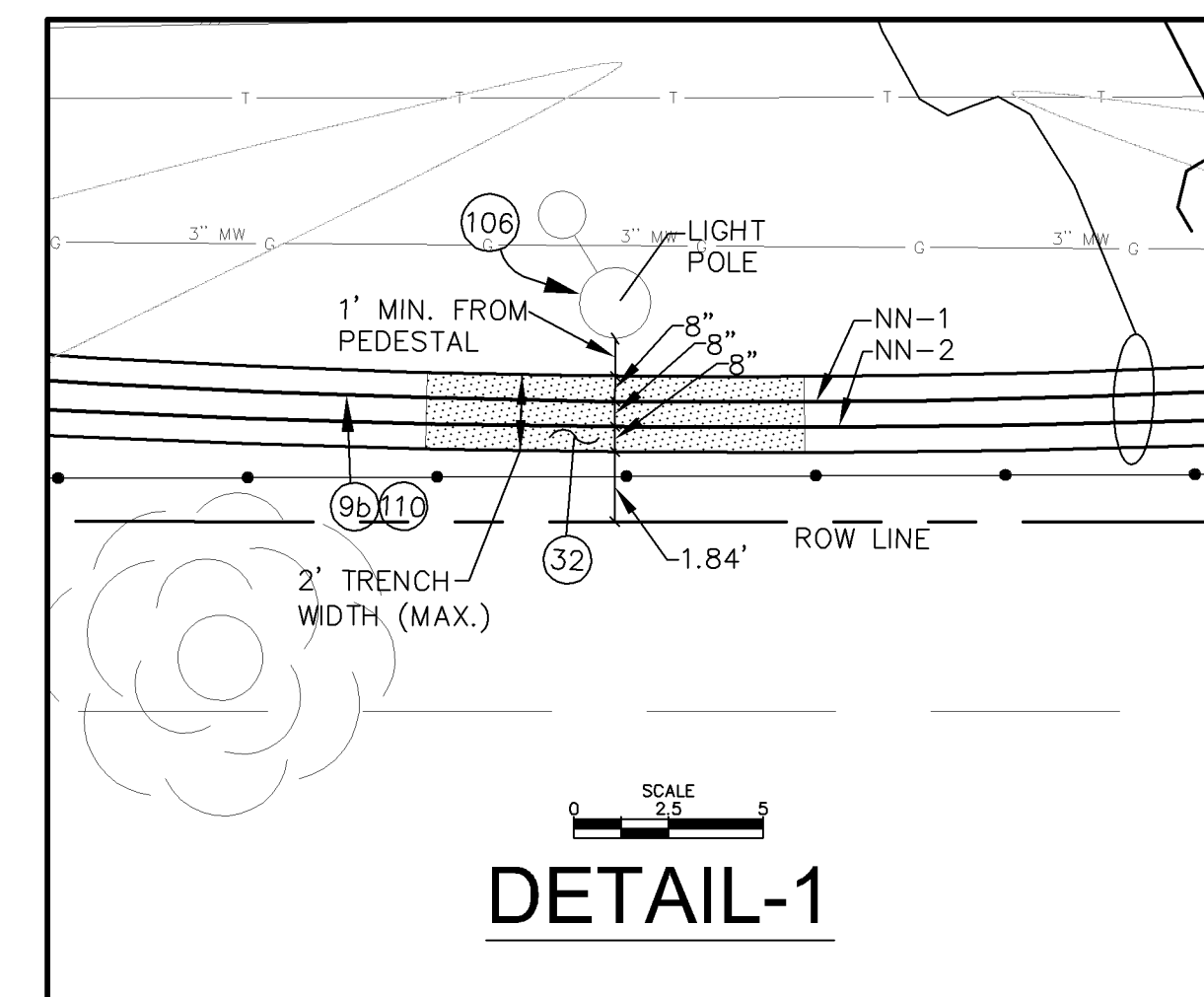


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
 LINE N - PLAN AND PROFILE
 STA 7+50 TO STA 10+72.09

CONSTRUCTION NOTES

- 80 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 9b 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES TWO SERVICE LINES PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 11 104.2.B - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (WITHIN R.O.W.). INCLUDES CLEANOUT RING AND COVER (SEE STD. DETAIL SS-07).
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 31 304 - 12" CLASS 6 ABC FOR HWY 340 SHOULDER GRAVEL. COMPACT IN 6" LIFTS TO 90% AASHTO T-180. PAID PER TON.
- 44 210 - RESET FENCE (ALL TYPES). (ALL TYPES).
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 110 INSTALL SANITARY SEWER WARNING TAPE, 6" - 12" ABOVE TOP OF SERVICE. INCIDENTAL TO COST OF SERVICE INSTALLATION.



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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A			DAW/TLT	2005
REVISION B			DRD	2005
REVISION C			DRD	2005
REVISION D	AS BUILT RECORDS	04-2007		

SCALE:

PLAN	PROFILE
HORIZONTAL	HORIZONTAL
VERTICAL	VERTICAL

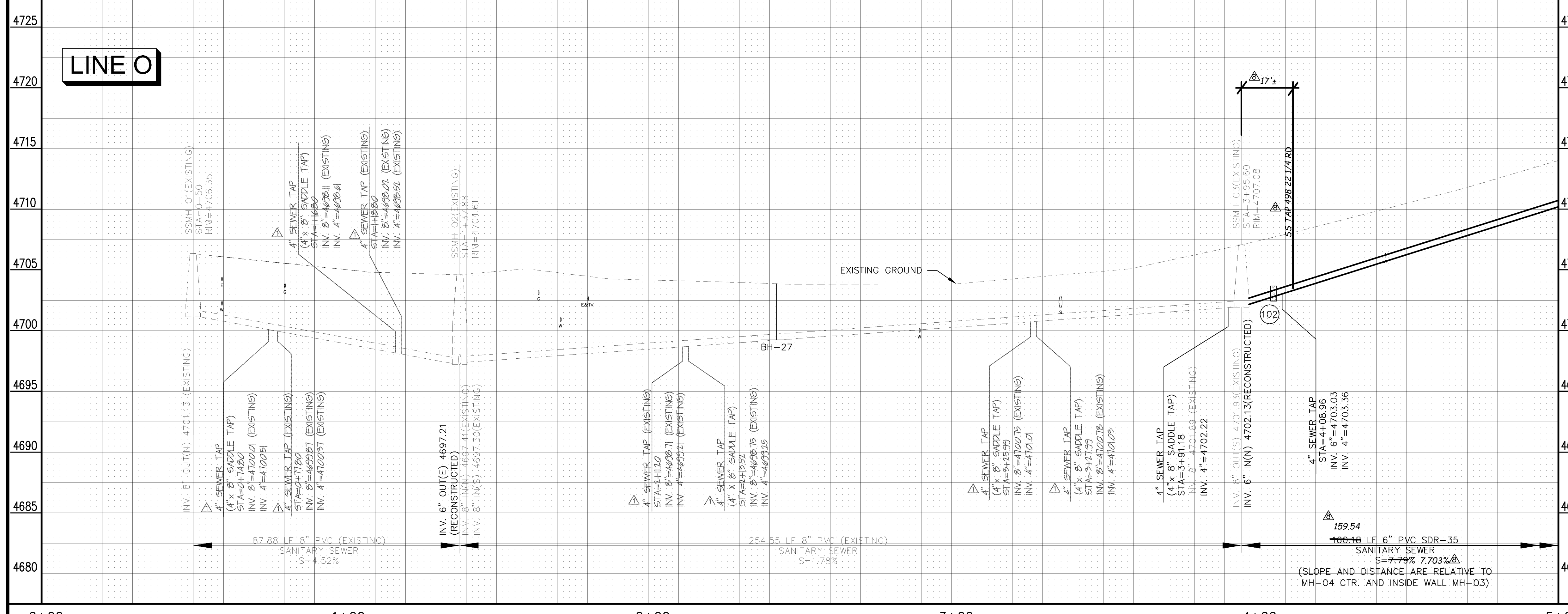
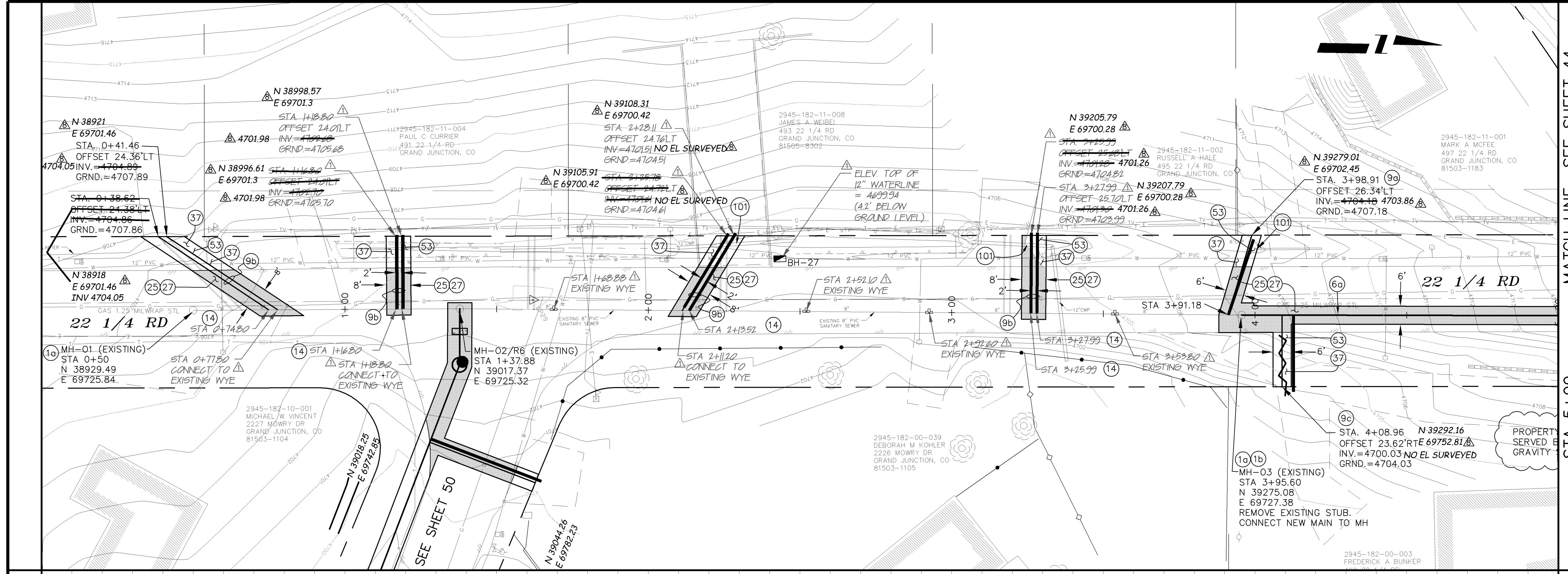
CITY OF
Grand Junction
COLORADO

PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

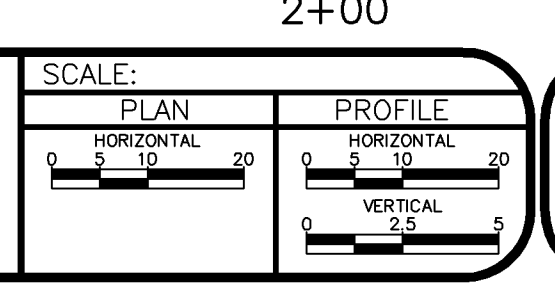
REED MESA SANITARY IMPROVEMENT DISTRICT
LINE "NN-1 & NN-2" - PLAN AND PROFILE

CONSTRUCTION NOTES

- 1a 102.11-CONNECT TO EXISTING MANHOLE AS PER STD. DETAIL SS-04, SS-08.
- 1b 102.11/102.14 - RE-CONSTRUCT MANHOLE BENCH AND INVERT IN EXISTING MANHOLE. USE ALL-CRETE 5-MINUTE SET (FOSTROC INC.) OR EQUIVALENT FOR INVERT FINISHING.
- 6a 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 9a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 9b 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES TWO SERVICE LINES PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 9c 102/103/104 - 2" EAGLE PURE CORE BLUE SDR-9 200PSI CTS HDPE SEWER SERVICE LINE. INCLUDES FITTINGS AT EACH END AS PER SPECIAL PROVISIONS.
- 14 102.9/104.2.B - INSTALL 8"x4" TAPPING SADDLE WITH STAINLESS STEEL STRAPS.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 101 SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2' ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.



REVISION	APPENDIX #	DATE	DRAWN BY	DAW/TLT	DATE
REVISION		6/12/05	DESIGNED BY	DRD	DATE 2005
REVISION			CHECKED BY	DRD	DATE 2005
REVISION	AS BUILT RECORDS	04-2007	APPROVED BY		DATE

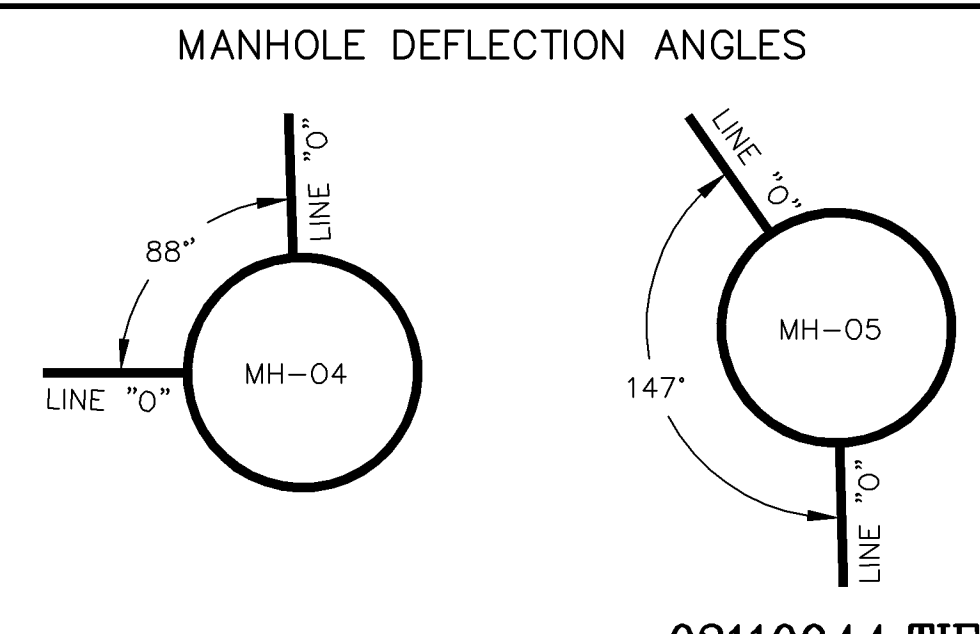
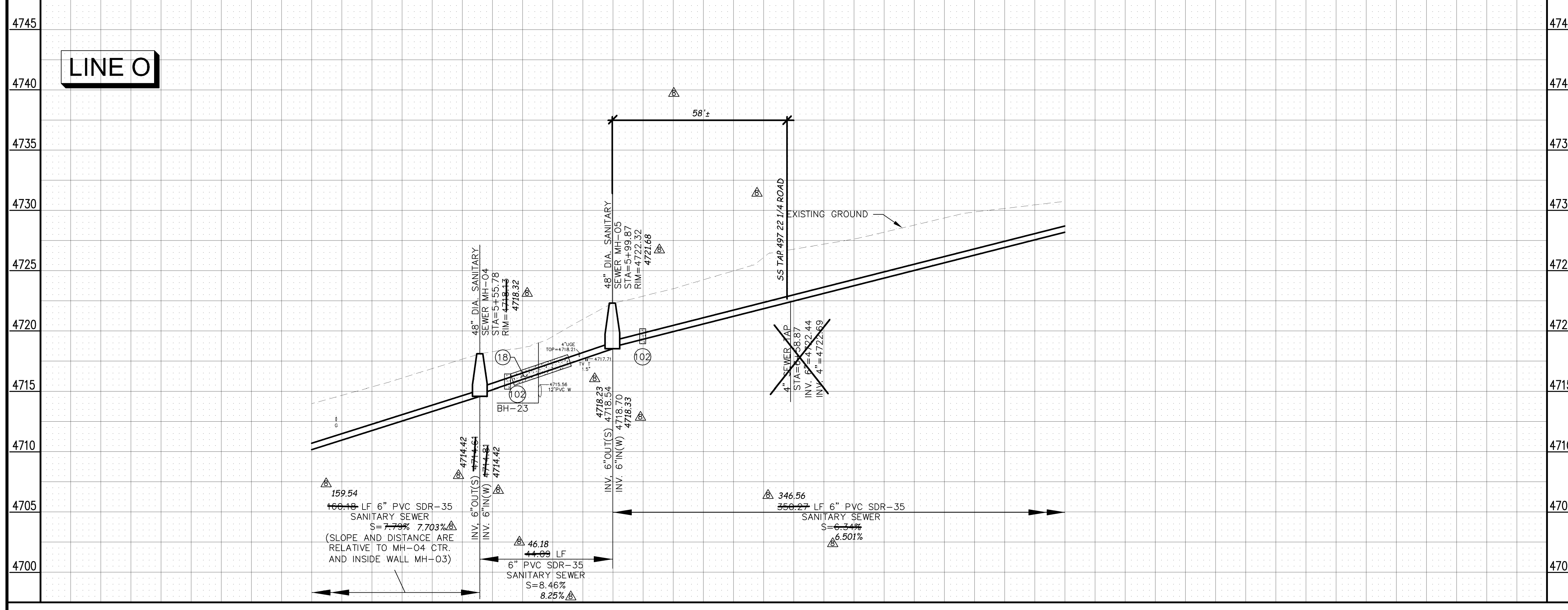
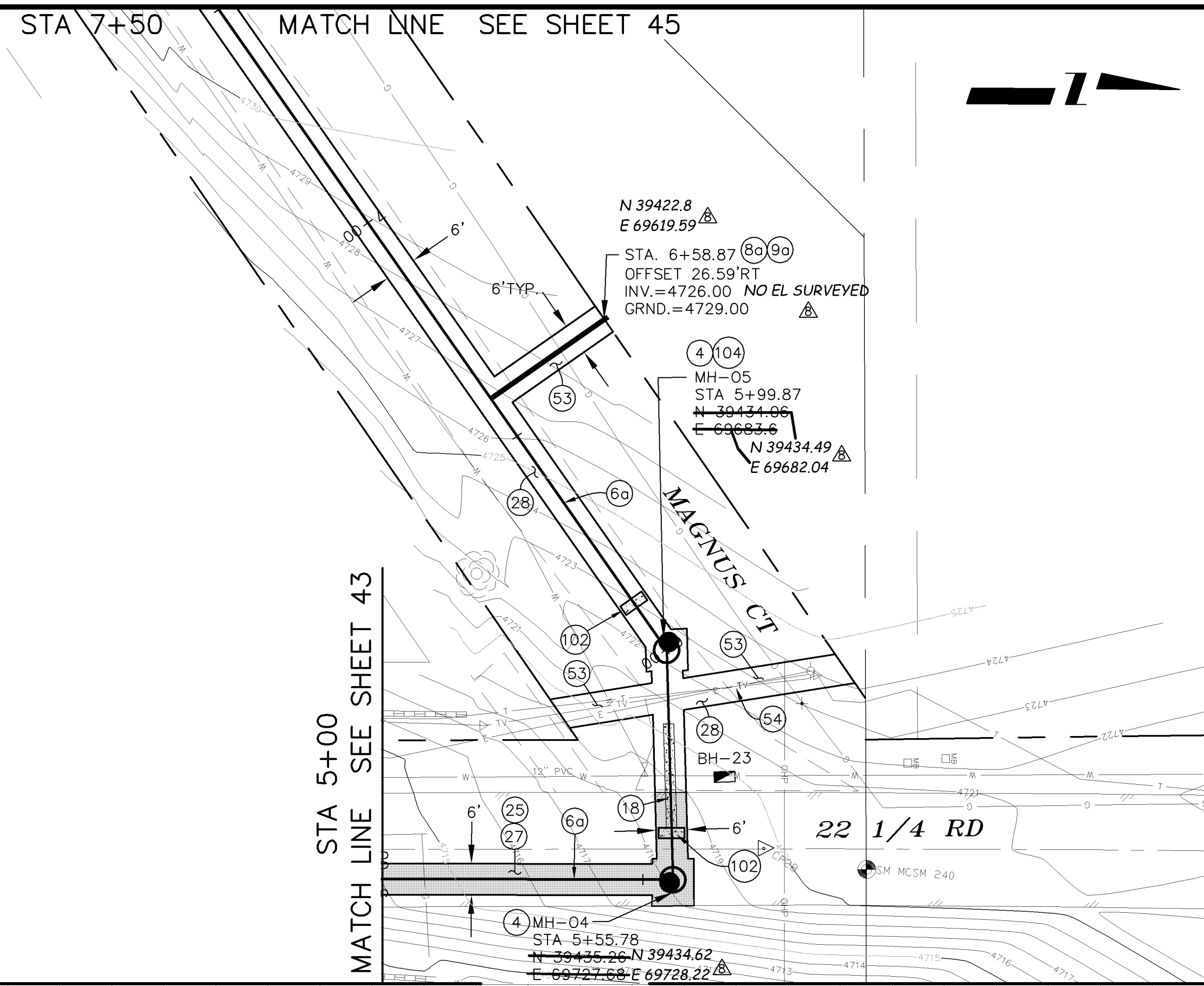


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
 LINE 0 - PLAN AND PROFILE
 STA 0+50 TO STA 5+00

CONSTRUCTION NOTES

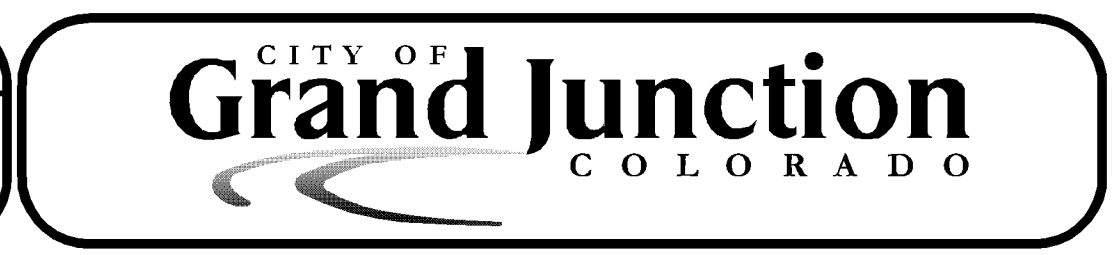
- 4 102.11 - 48" DIAMETER SHALLOW SANITARY SEWER MANHOLE (D ≤ 5'); INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS, LID SLAB IF REQUIRED, AND ADJUSTING TO FINAL GRADE. (SEE STD. DETAIL SS-03).
- 6a 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 8a 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 9a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 18 104.4 - ENCASE ENTIRE SEWER IN REINFORCED CONCRETE PER STD. DETAIL GU-04.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 28 304 - 6" CLASS 6 ABC FOR GRAVEL ROAD SURFACE COURSE. COMPACT TO 95% AASHTO T-180. PAID PER SY.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 54 203.02/103.16 - EXCAVATE, BED, AND BACKFILL WITH MATERIALS MEETING 103.15 AND 103.16 FOR UTILITY RELOCATIONS WHICH REQUIRE EXCAVATION BEYOND THAT REQUIRED FOR SEWER INSTALLATION. MUST BE APPROVED BY ENGINEER OR INSPECTOR IF NOT SPEC'D ON PLANS. TRENCH DEPTH SHALL BE 24 INCHES UNLESS DIRECTED OTHERWISE BY ENGINEER OR INSPECTOR. NOTIFY UTILITY THREE DAYS IN ADVANCE. ACTUAL UTILITY RELOCATION BY OTHERS.
- 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).



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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION Δ			DAW/TLT	2005
REVISION Δ			DRD	2005
REVISION Δ			DRD	2005
REVISION Δ	AS BUILT RECORDS	04-2007		

SCALE:	PLAN	PROFILE
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		VERTICAL 0 2.5 5

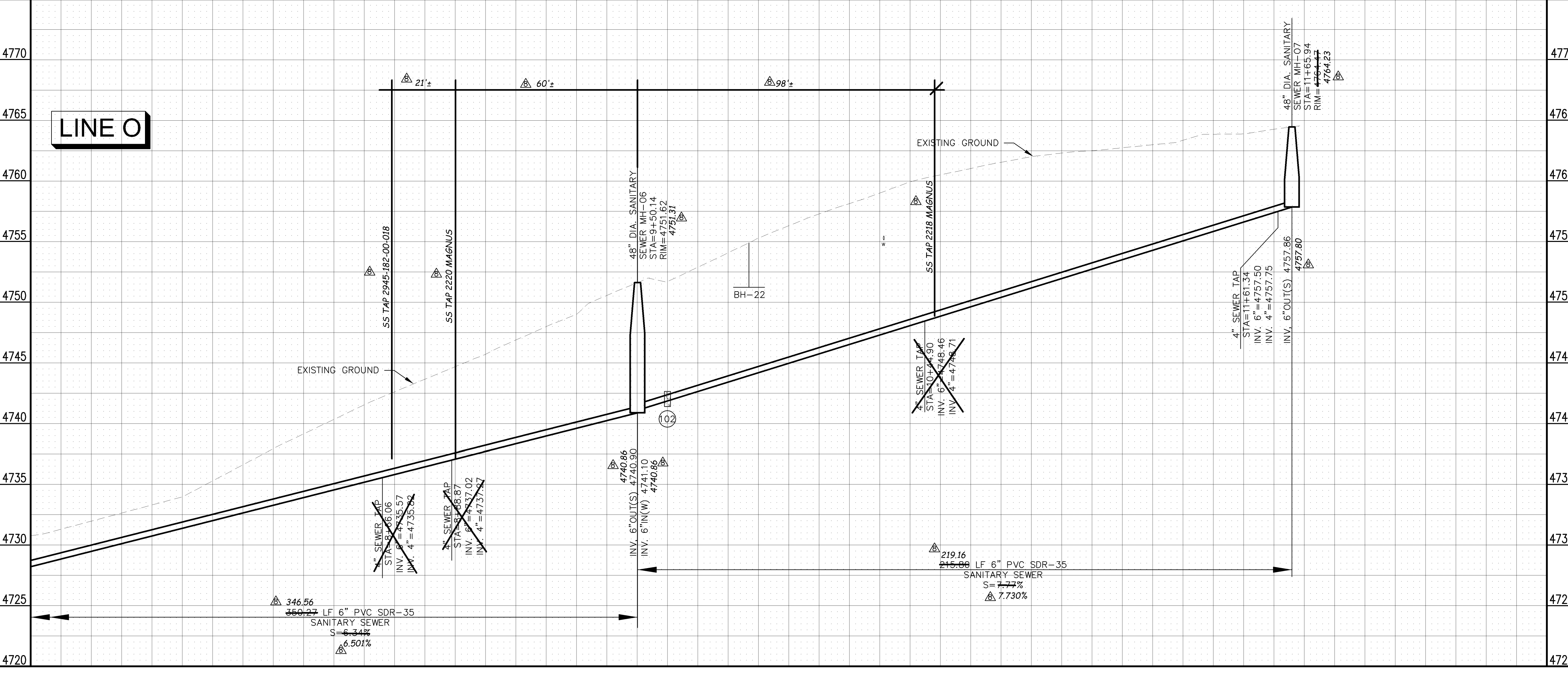
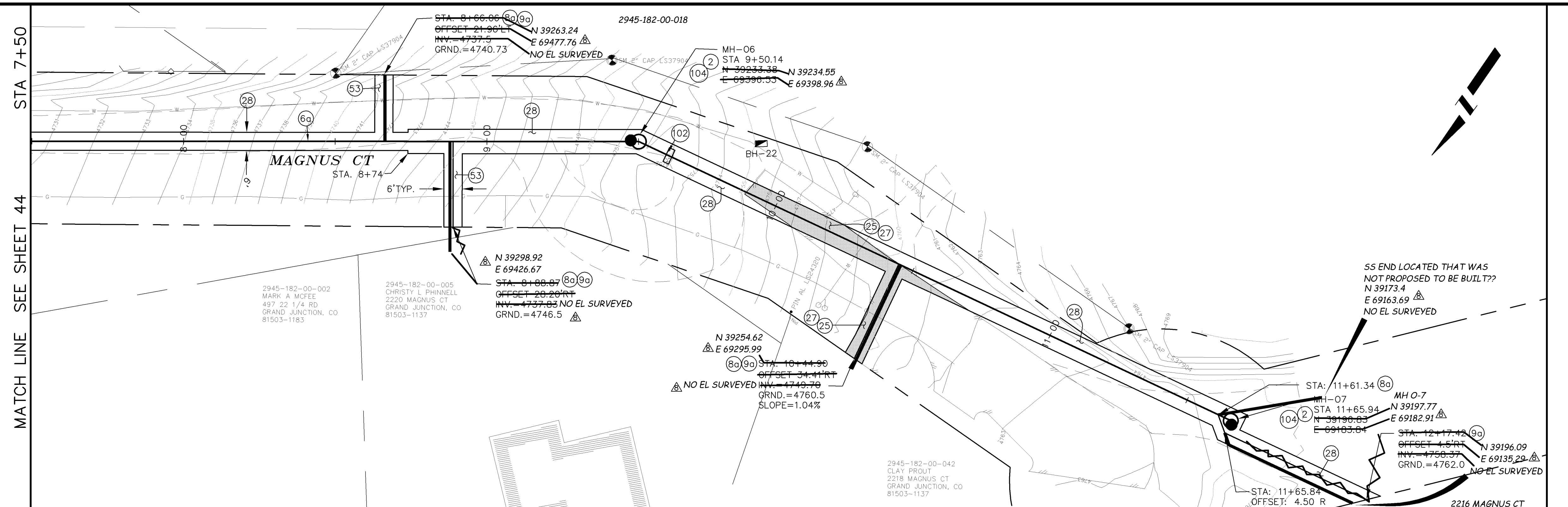


**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

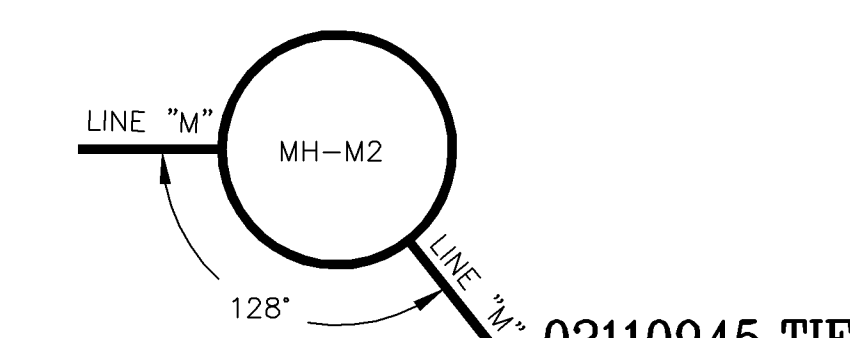
**REED MESA SANITARY IMPROVEMENT DISTRICT
LINE 0 - PLAN AND PROFILE
STA 5+00 TO STA 7+50**

CONSTRUCTION NOTES

- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 6a 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 8a 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 9a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 28 304 - 6" CLASS 6 ABC FOR GRAVEL ROAD SURFACE COURSE. COMPACT TO 95% AASHTO T-180. PAID PER SY.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).



MANHOLE DEFLECTION ANGLES



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION 1			DAW/TLT	2005
REVISION 2			DRD	2005
REVISION 3			DRD	2005
REVISION 4	AS BUILT RECORDS	04-2007		

SCALE:	
HORIZONTAL	1" = 20'
VERTICAL	1" = 5'

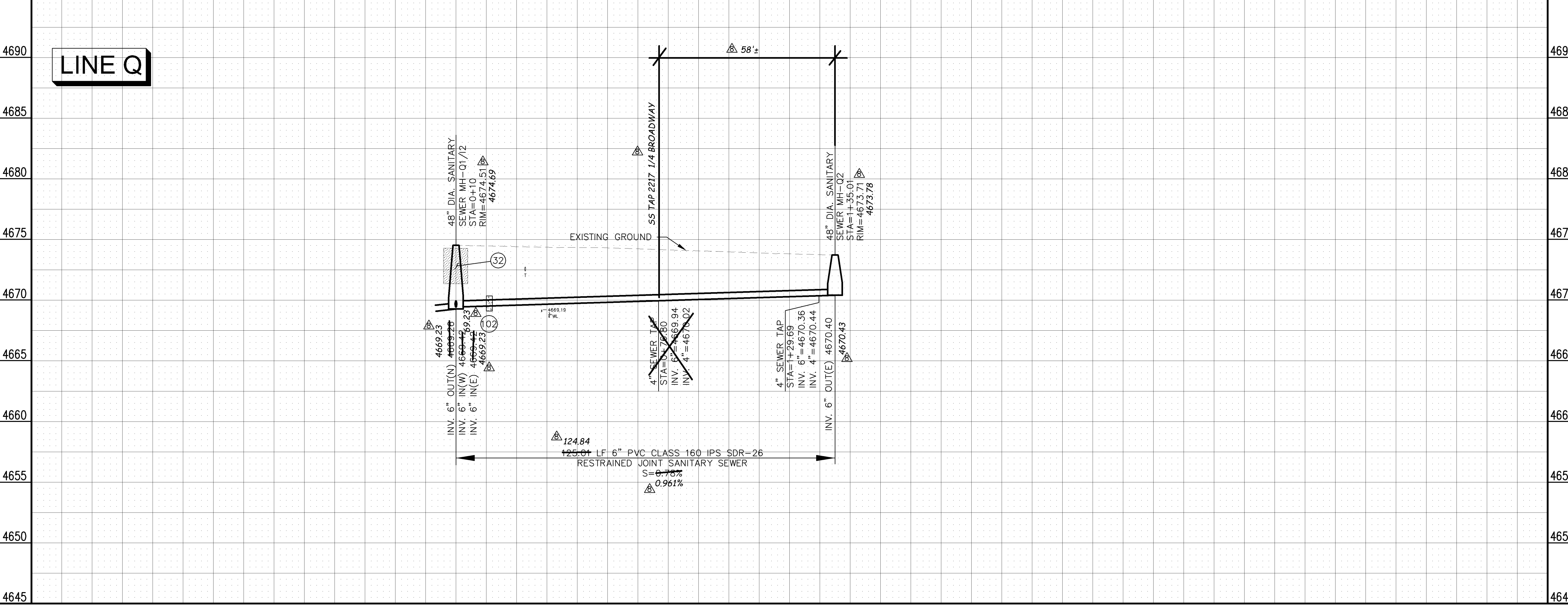
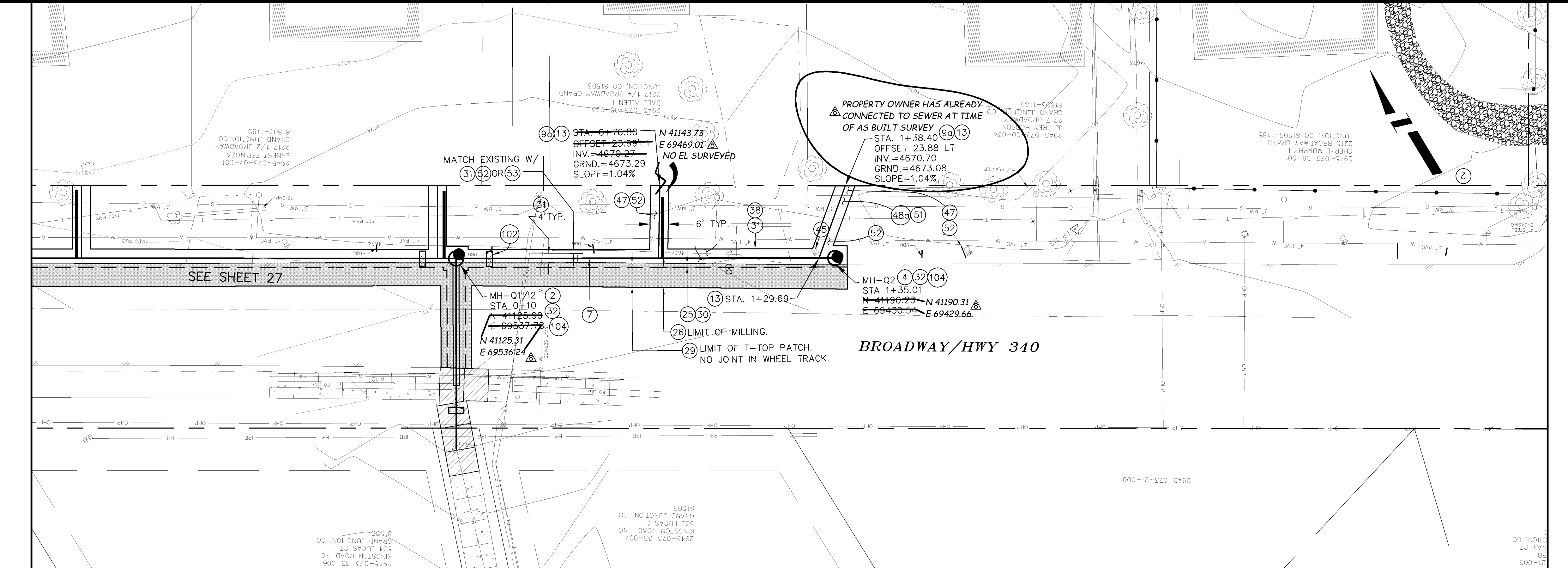


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
 LINE 0 - PLAN AND PROFILE
 STA 7+50 TO STA 11+65.64

CONSTRUCTION NOTES

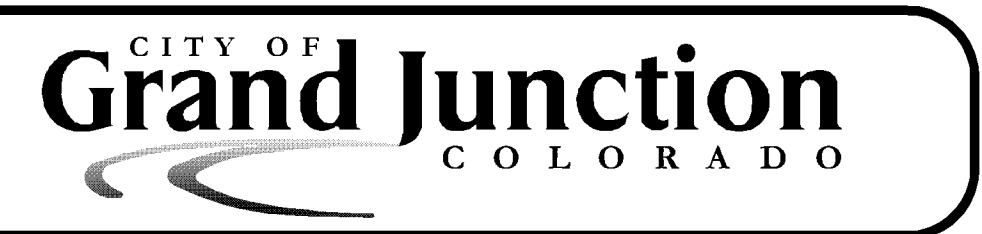
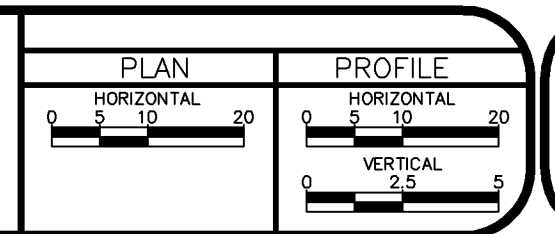
- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 4 102.11 - 48" DIAMETER SHALLOW SANITARY SEWER MANHOLE (D ≤ 5'); INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS, LID SLAB IF REQUIRED, AND ADJUSTING TO FINAL GRADE. (SEE STD. DETAIL SS-03).
- 7 102.9A - 6" GRAVITY SEWER PIPE (PVC CLASS 160 IPS SDR-26) WITH EBAA IRON SERIES 6500 JOINT RESTRAINTS INSTALLED AS PER MFG. SPECIFICATIONS. INCLUDES TYPE A BEDDING AND HAUNCHING AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING CDOT 703.08 CLASS 2 STRUCTURE BACKFILL.
- 9a 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 13 102/103/104 - 4" SEWER SERVICE TAP, 6" IPS SDR-26 X 4" SDR-35, FULL BODY WYE, (SEE STD. DETAIL SS-06). INCLUDES EBAA IRON SERIES 6500 JOINT RESTRAINTS.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 26 103.3 - ASPHALT REMOVAL FOR T-TOP PATCHING OF HWY. 340 (MILLING): REMOVE ASPHALT AND FLOWFILL BY MILLING.
- 29 103.18/401 - PAVEMENT REPLACEMENT ON HWY 340: HOT BITUMINOUS PAVEMENT, GRADING SX SUPERPAVE 75-GYRATION, BINDER GRADE PG 64-28.
- 30 304 - 12" CLASS 6 ABC FOR HWY 340 ROAD BASE. COMPACT IN 6" LIFTS TO 95% AASHTO T-180.
- 31 304 - 12" CLASS 6 ABC FOR HWY 340 SHOULDER GRAVEL. COMPACT IN 6" LIFTS TO 90% AASHTO T-180. PAID PER TON.
- 32 206.02/206.03 - STRUCTURE BACKFILL (FLOWFILL). PAID PER CY.
- 38 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- 45 210 - RESET MAILBOX.
- 47 210 - RESET IRRIGATION SYSTEM COMPONENTS (PER EACH PROPERTY).
- 48a 210 - RESET LANDSCAPE APPURTENANCES (DECORATIVE ROCK, WOOD CHIPS, TREE BARK). MATCH EXISTING W/ MIN THICKNESS = 2". REUSE EXISTING IF KEPT FREE OF FINES/DETRITUS. LANDSCAPING FABRIC REQUIRED AND INCIDENTAL TO PAY ITEM. PAID PER SY.
- 51 207 - TOPSOIL, 12" THICK. REUSE EXISTING IF STOCKPILED, KEPT FREE OF DETRITUS, AND APPROVED BY INSPECTOR/ENGINEER.
- 52 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 102 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.
- 104 104.2C - INSTALL CONCRETE COLLAR W/ #4 REBAR HOOP AS PER STD. DETAIL SS-02. INCIDENTAL TO MANHOLE PAY ITEM.



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REVISION	DESCRIPTION	DATE
REVISION A		
REVISION B		
REVISION C		
REVISION D	AS BUILT RECORD	04-2007

DRAWN BY	DAW/TLT	DATE	2005
DESIGNED BY	DRD	DATE	2005
CHECKED BY	DRD	DATE	2005
APPROVED BY		DATE	

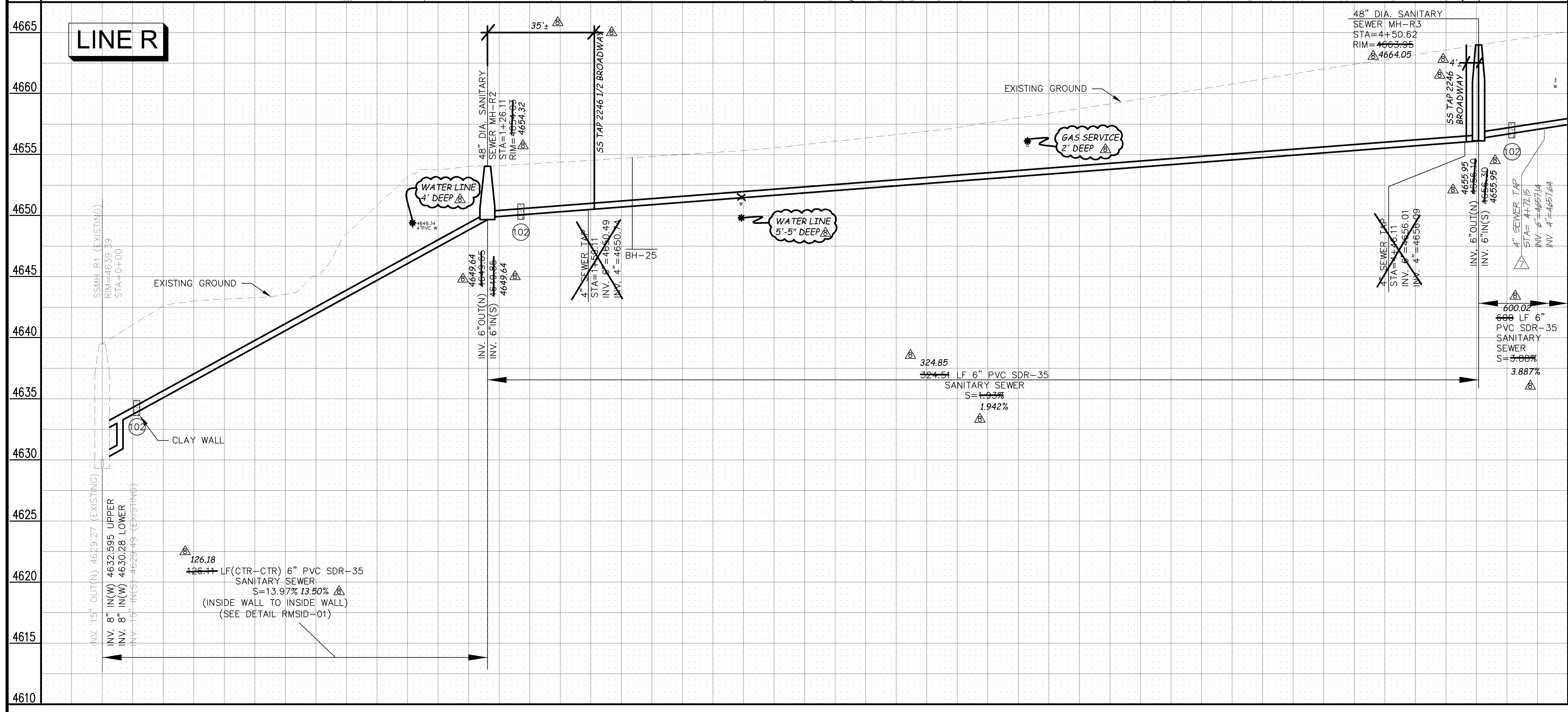
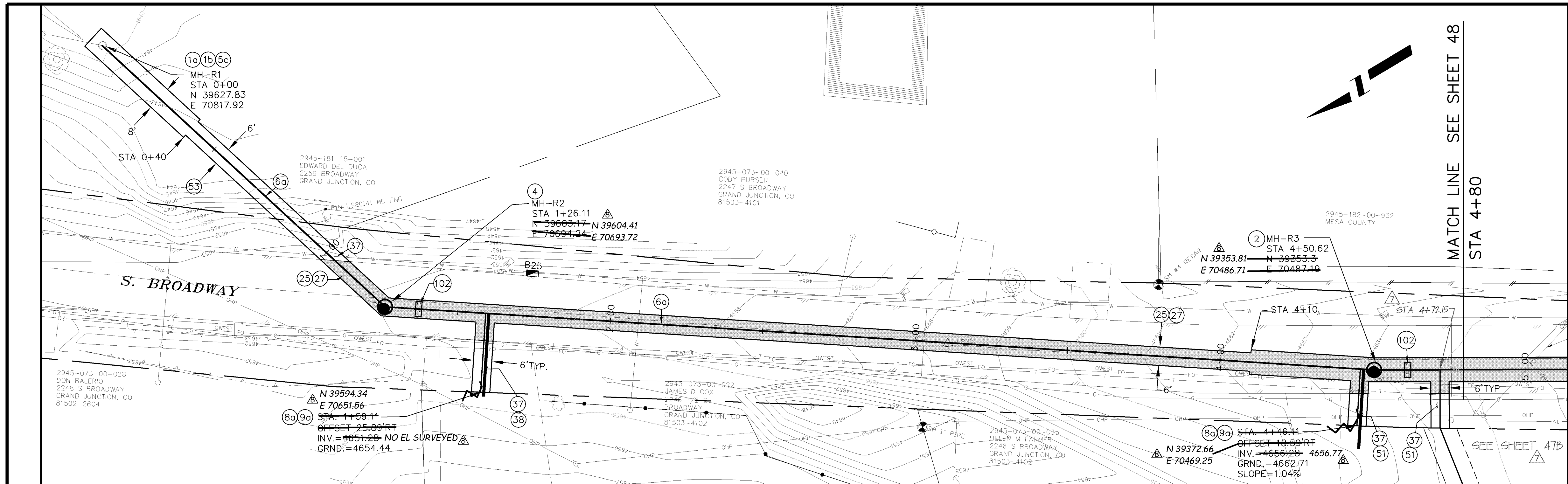


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

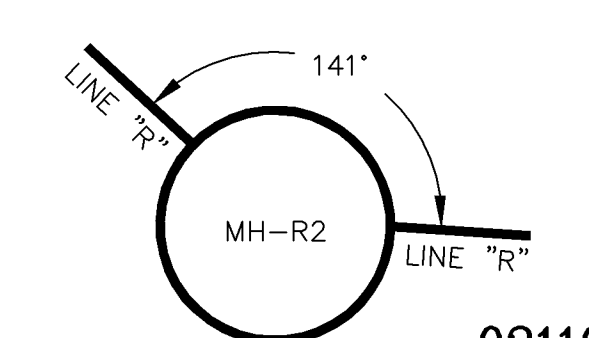
REED MESA SANITARY IMPROVEMENT DISTRICT
 LINE Q - PLAN AND PROFILE
 STA 0+10 TO STA 1+35

CONSTRUCTION NOTES

- 10 102.11-CONNECT TO EXISTING MANHOLE AS PER STD. DETAIL SS-04, SS-08.
- 1b 102.11/102.14 - RE-CONSTRUCT MANHOLE BENCH AND INVERT IN EXISTING MANHOLE. USE ALL-CRETE 5-MINUTE SET (FOSTROC INC.) OR EQUIVALENT FOR INVERT FINISHING.
- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 4 102.11 - 48" DIAMETER SHALLOW SANITARY SEWER MANHOLE (D ≤ 5'); INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS, LID SLAB IF REQUIRED, AND ADJUSTING TO FINAL GRADE. (SEE STD. DETAIL SS-03).
- 5c 102.11 - CONVERT EXISTING MANHOLE TO DROP MANHOLE (48" I.D.). PIPE DIAMETER EITHER 6" OR 8". INCLUDES 6"x8" ADAPTER AND MANHOLE COATING AS PER 102.11. (SEE STD. DETAIL SS-04). AT CONTRACTOR'S DISCRETION, CLEAN, DRY, AND COAT INSIDE OF MANHOLE, OR REMOVE, INSTALL, AND COAT NEW MANHOLE BARRELS.
- 60 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 80 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 90 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 38 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- 51 207 - TOPSOIL, 12" THICK. REUSE EXISTING IF STOCKPILED, KEPT FREE OF DETRITUS, AND APPROVED BY INSPECTOR/ENGINEER.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).



MANHOLE DEFLECTION ANGLES

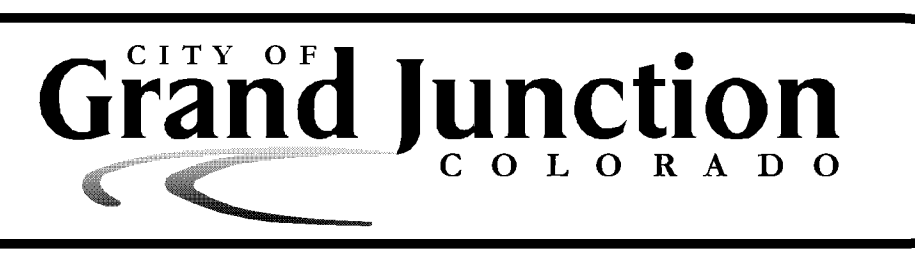


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REVISION	DESCRIPTION	DATE
REVISION A		
REVISION B		
REVISION C	REVISION #1 - 2228 MONRY SS CHANGE	1/11/06
REVISION D	AS BUILT RECORDS	04-2007

DRAWN BY	DAW/TLT	DATE	2005
DESIGNED BY	DRD	DATE	2005
CHECKED BY	DRD	DATE	2005
APPROVED BY		DATE	

SCALE:	
PLAN	PROFILE
HORIZONTAL 0 5 10 20	HORIZONTAL 0 5 10 20
	VERTICAL 0 2.5 5

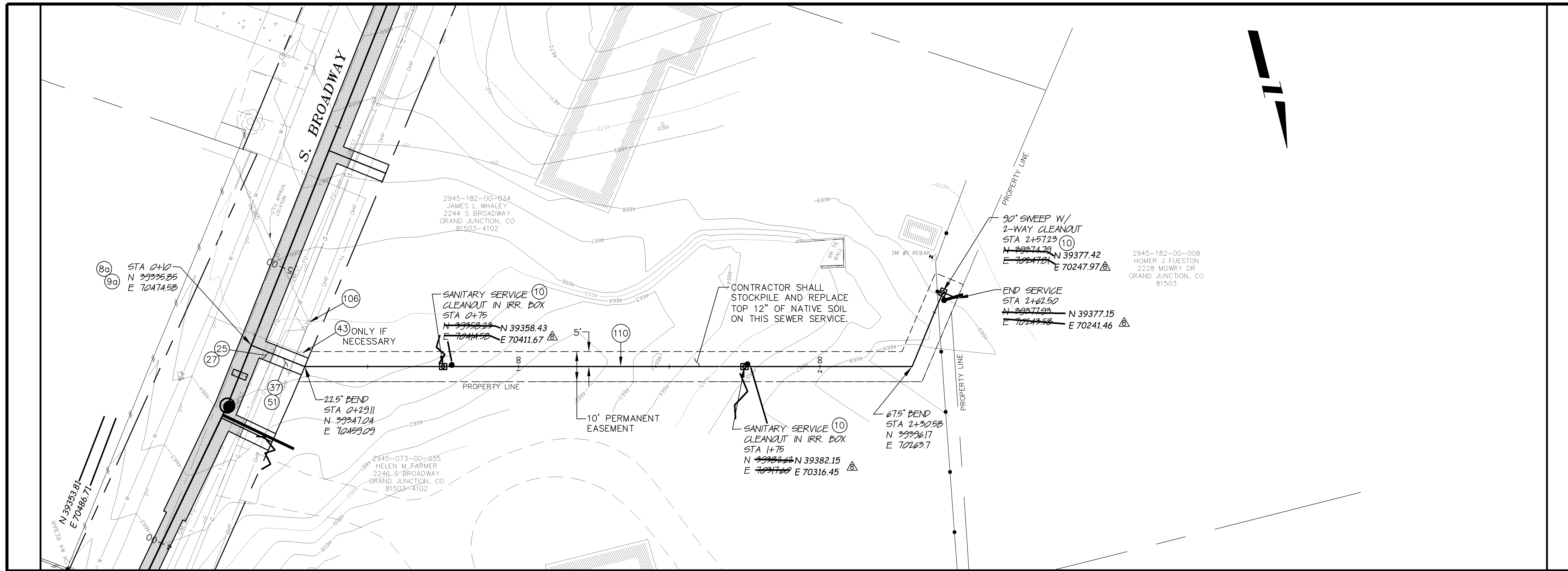


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

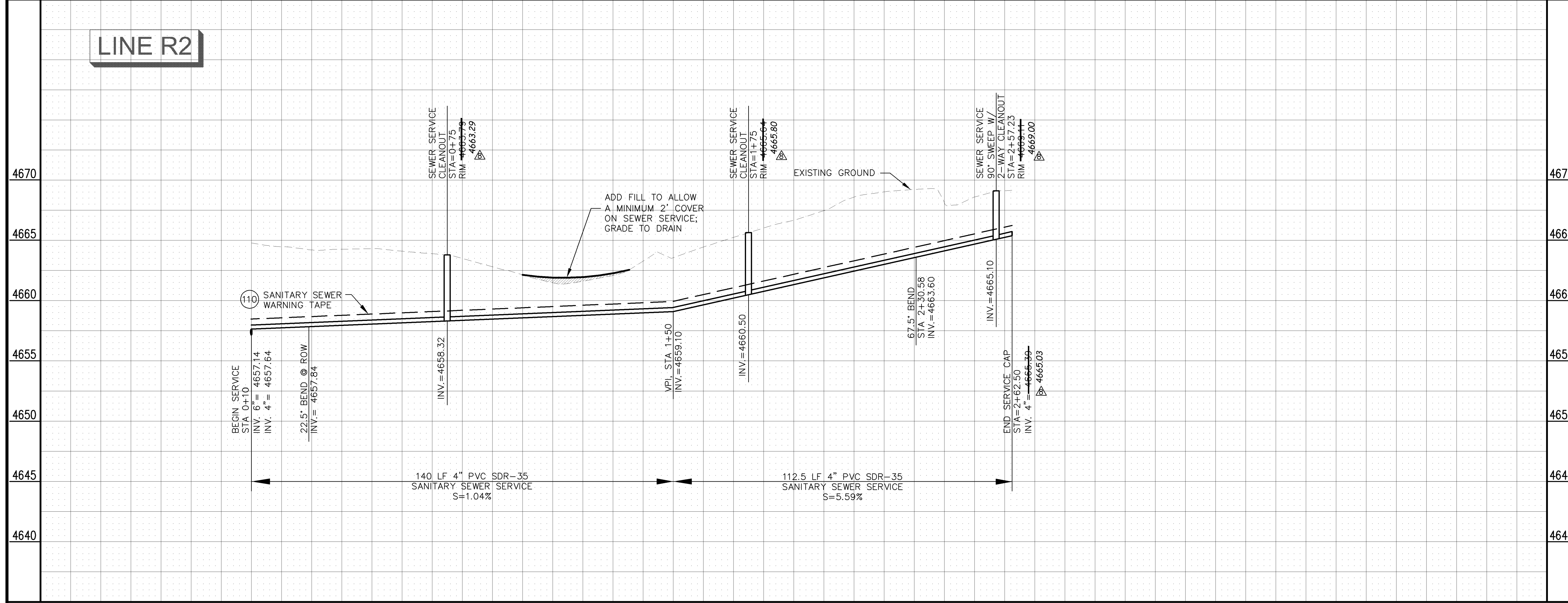
REED MESA SANITARY IMPROVEMENT DISTRICT
LINE "R" - PLAN AND PROFILE
STA 0+00 TO STA 4+80

CONSTRUCTION NOTES

- (8a) 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- (9a) 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- (10) 104.2.b - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (OUTSIDE OF R.O.W.). INCLUDES IRRIGATION VALVE BOX.
- (25) 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- (27) 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- (37) 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- (43) 210 - RESET WATER METER AND PIT.
- (44) 210 - RESET FENCE (ALL TYPES). (ALL TYPES).
- (51) 207 - TOPSOIL, 12" THICK. REUSE EXISTING IF STOCKPILED, KEPT FREE OF DETRITUS, AND APPROVED BY INSPECTOR/ENGINEER.
- (106) PROTECT/STABILIZE POLE, POST, SIGN.
- (110) 104.2.B - INSTALL SANITARY SEWER WARNING TAPE, 6" - 12" ABOVE TOP OF SERVICE. INCIDENTAL TO COST OF SERVICE INSTALLATION.



LINE R2

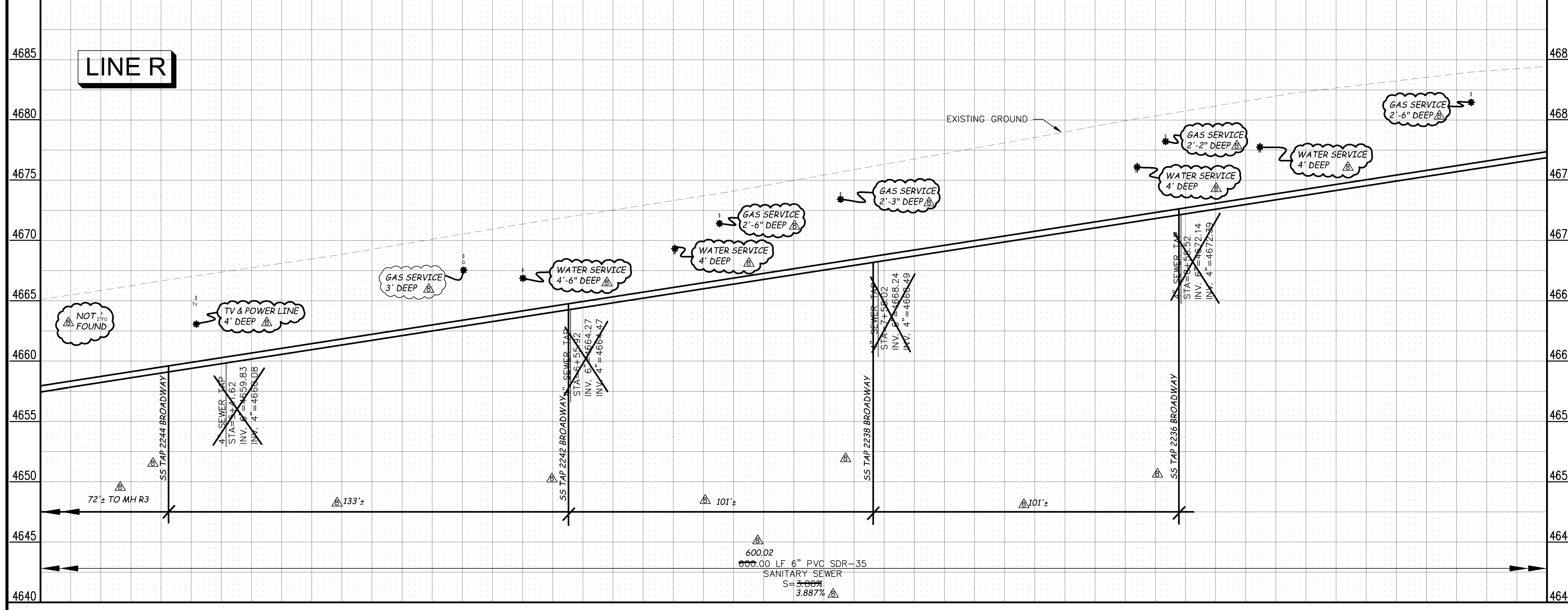
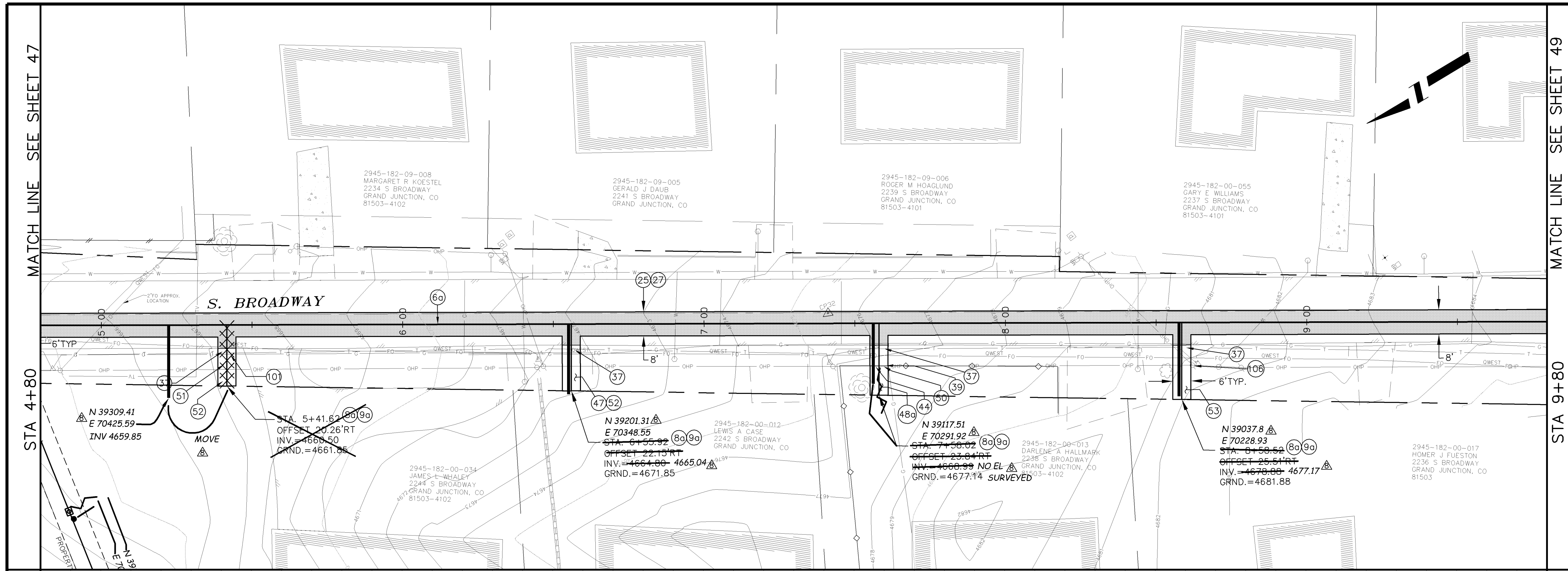


THIS SHEET ADDED FOR REVISION #7

	0+00	0+50	1+00	1+50	2+00	2+50	3+00
REVISION Δ _____ REVISION Δ _____ REVISION Δ REVISION #7 - 2228 MOWRY SS CHANGE - 1/11/08 REVISION Δ AS BUILT RECORDS - 04-2007	DESCRIPTION _____ DATE _____ DRAWN BY DAW/TLT DATE 2005 DESIGNED BY DRD DATE 2005 CHECKED BY DRD DATE 2005 APPROVED BY _____ DATE _____		SCALE: PLAN: HORIZONTAL 1" = 20' PROFILE: HORIZONTAL 1" = 10', VERTICAL 1" = 2'	CITY OF Grand Junction COLORADO	PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION	REED MESA SANITARY IMPROVEMENT DISTRICT LINE "R2" - PLAN AND PROFILE STA 0+10 TO STA 2+62.50	02110947B.TIF 47B

CONSTRUCTION NOTES

- 60 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 80 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 90 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 39 202/608 - REMOVE AND REPLACE CONCRETE OR ASPHALT CURB AND GUTTER/CURBING/GUTTER/BORDER. SIZE AND STYLE VARY. MATCH EXISTING.
- 44 210 - RESET FENCE (ALL TYPES). (ALL TYPES).
- 47 210 - RESET IRRIGATION SYSTEM COMPONENTS (PER EACH PROPERTY).
- 480 210 - RESET LANDSCAPE APPURTENANCES (DECORATIVE ROCK, WOOD CHIPS, TREE BARK). MATCH EXISTING W/ MIN THICKNESS = 2". REUSE EXISTING IF KEPT FREE OF FINES/DETRITUS. LANDSCAPING FABRIC REQUIRED AND INCIDENTAL TO PAY ITEM. PAID PER SY.
- 50 210 - RESET STONE/ROCK/BRICK/MASONRY BORDER.
- 51 207 - TOPSOIL, 12" THICK. REUSE EXISTING IF STOCKPILED, KEPT FREE OF DETRITUS, AND APPROVED BY INSPECTOR/ENGINEER.
- 52 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- 53 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- 101 SPAN/SUPPORT/PROTECT EXISTING CULVERT. AMEND BACKFILL WITH BENTONITE POND LINER (MIXED AS PER MFG. SPECIFICATIONS) FOR PLACEMENT AROUND CULVERT (2' ALL SIDES OF PIPE OVER EXPOSED LENGTH) DURING BACKFILL OPERATION. INCIDENTAL TO SEWER INSTALLATION PAY ITEM.
- 106 PROTECT/STABILIZE POLE, POST, SIGN.



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION 1	AS BUILT RECORDS	04-2007	DAW/TLT	2005
REVISION 2	REVISION #1 - 2228 MONRY SS CHANGE	1/11/08	DRD	2005
REVISION 3			DRD	2005

SCALE:
PLAN 0 5 10 20
PROFILE HORIZONTAL 0 5 10 20 VERTICAL 0 2.5 5

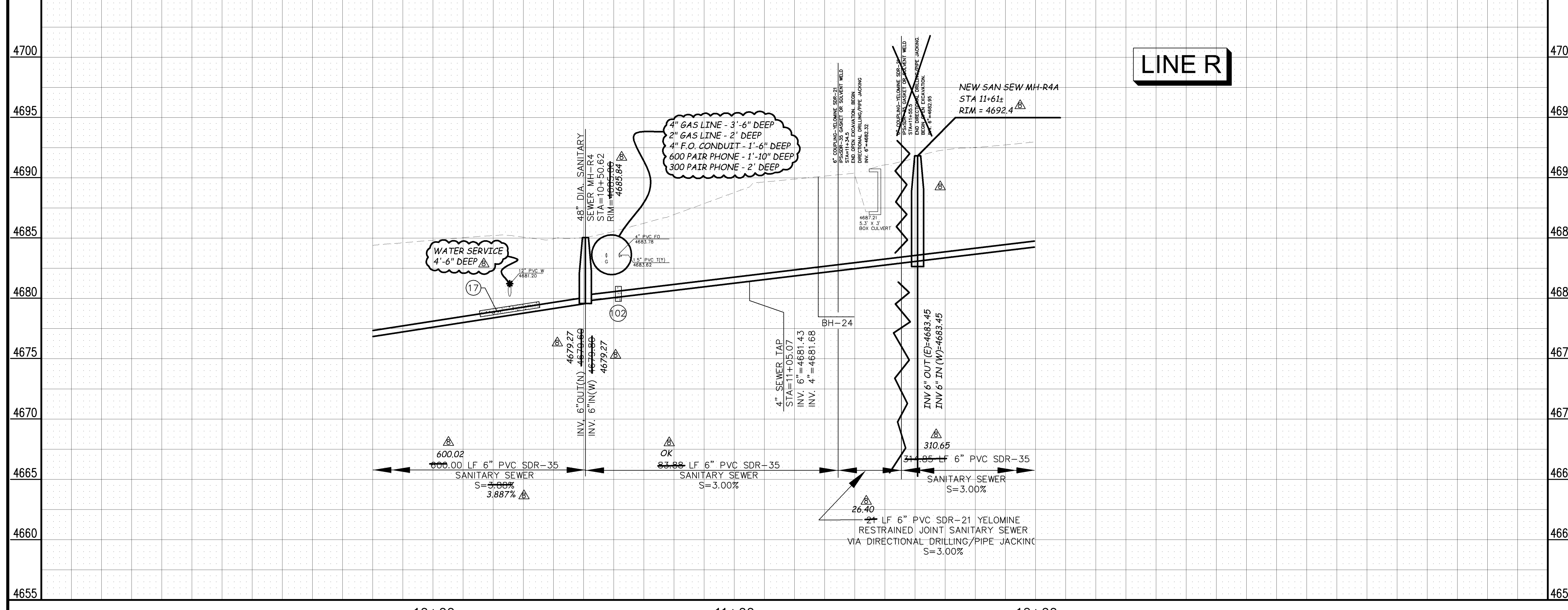
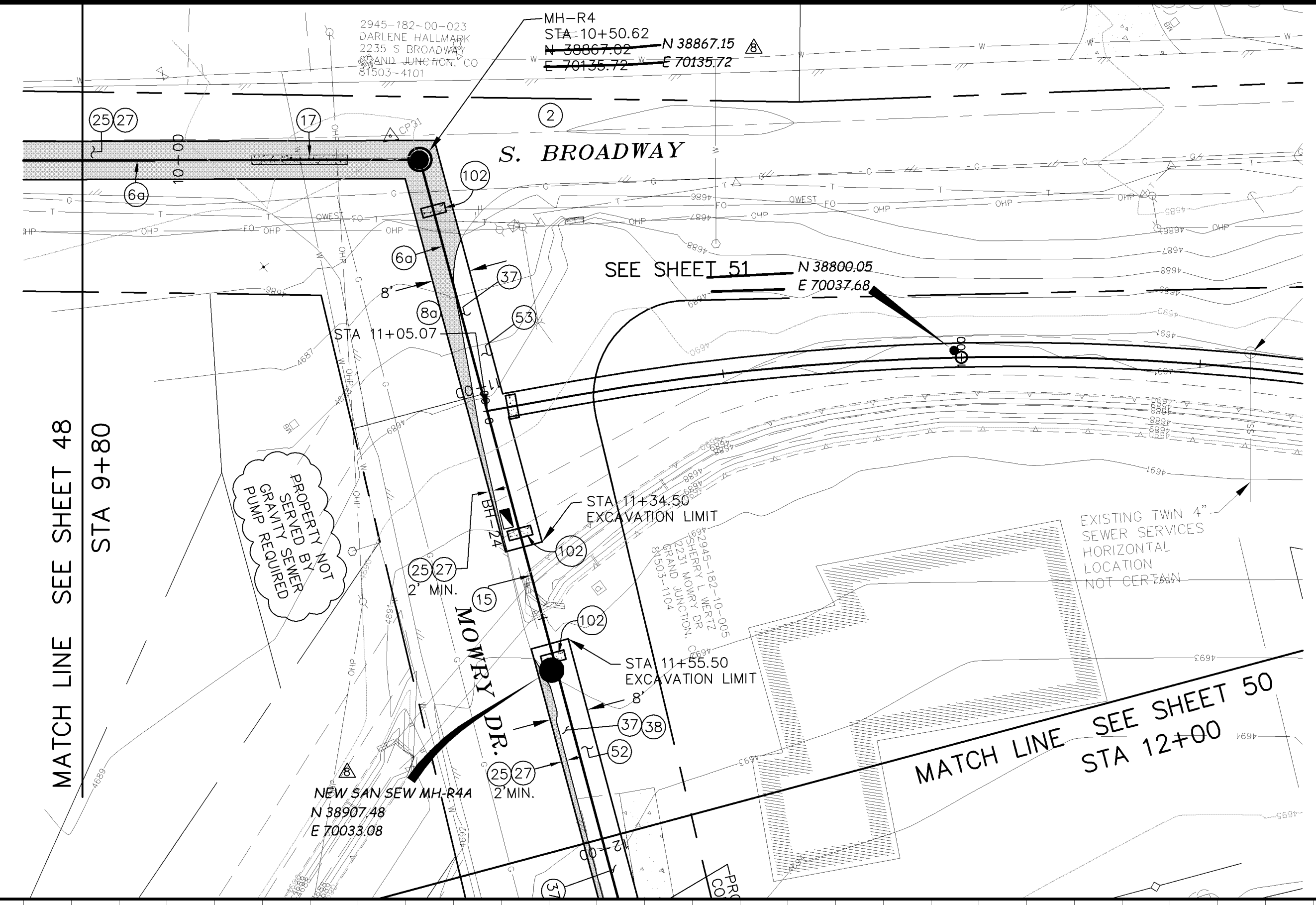


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

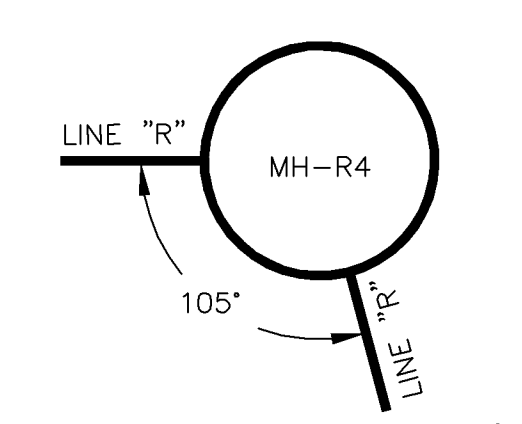
REED MESA SANITARY IMPROVEMENT DISTRICT
LINE "R" - PLAN AND PROFILE
STA 4+80 TO STA 9+80

CONSTRUCTION NOTES

- ② 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- ⑥0 102.9A - 6" GRAVITY SEWER PIPE (SDR-35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- ⑧0 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- ⑨0 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- ⑮ 102/103/104 - INSTALL 6" SDR-21 YELMINE RESTRAINED JOINT OR SDR-11 HDPE
- ⑰ 104.4 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL GU-04.
- ⑳ 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- ㉓ 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS. 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- ㉗ 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- ㉘ 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- ㉚ 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- ㉛ 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- ⑩2 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).



MANHOLE DEFLECTION ANGLES

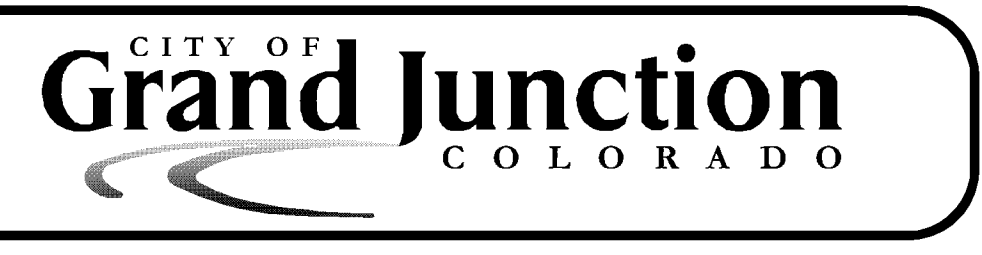


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REVISION	DESCRIPTION	DATE
REVISION A		
REVISION B	REVISION #1 - 2228 MOWRY SS CHANGE	1/11/06
REVISION C	AS BUILT RECORDS	04-2007

DRAWN BY	DAW/TLT	DATE	2005
DESIGNED BY	DRD	DATE	2005
CHECKED BY	DRD	DATE	2005
APPROVED BY		DATE	

SCALE:	
PLAN	PROFILE
HORIZONTAL 1" = 20'	HORIZONTAL 1" = 20'
VERTICAL 1" = 5'	VERTICAL 1" = 5'

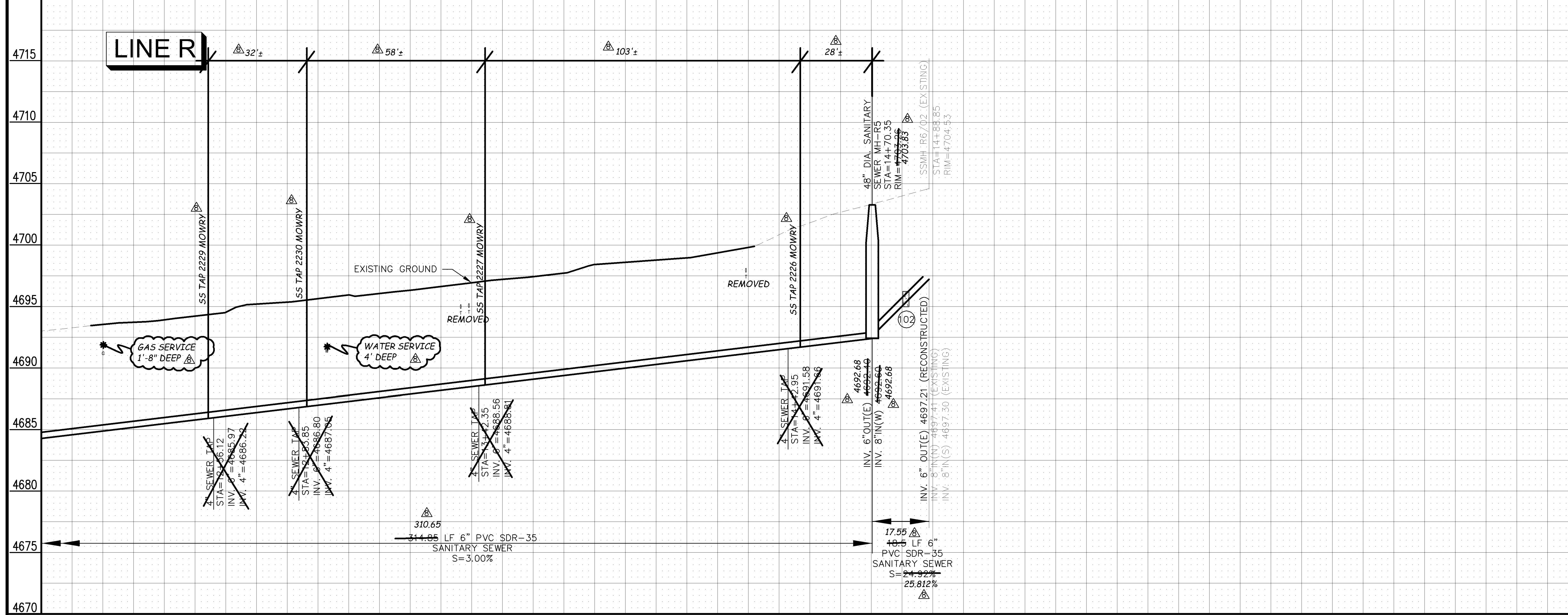
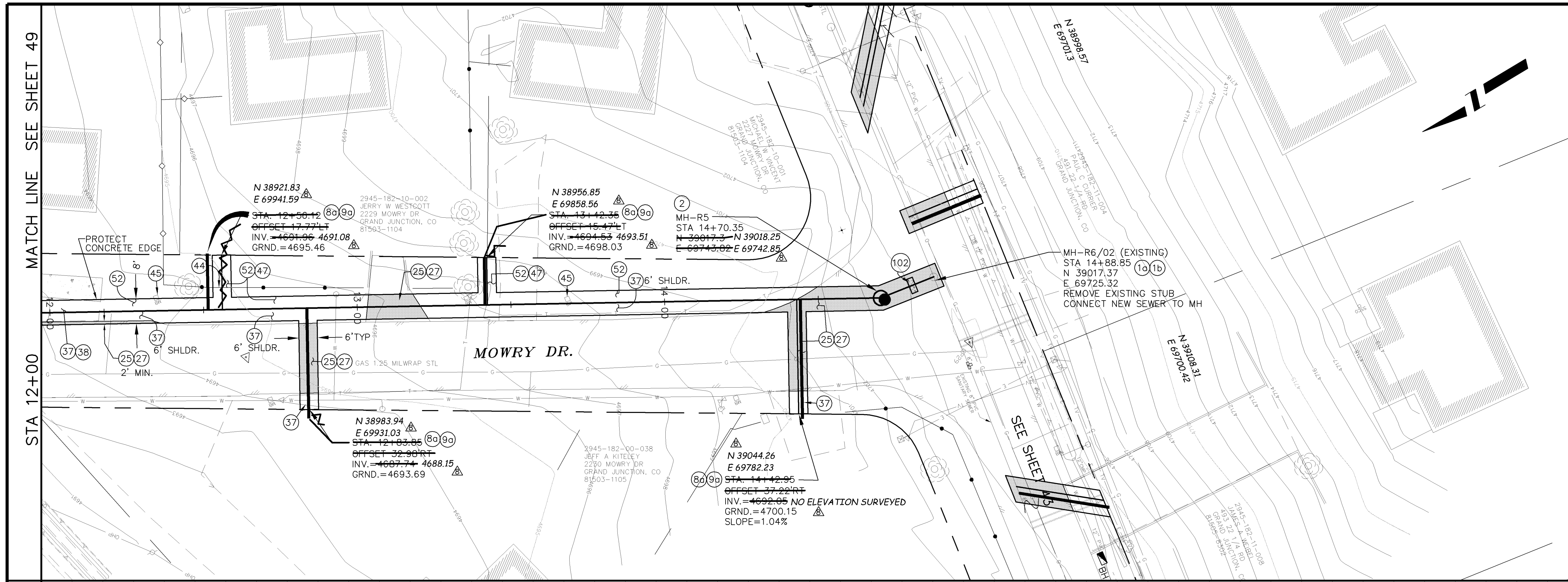


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

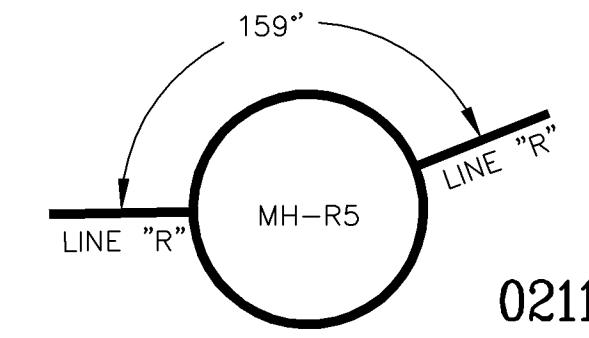
REED MESA SANITARY IMPROVEMENT DISTRICT
 LINE "R" - PLAN AND PROFILE
 STA 9+80 TO STA 12+00

CONSTRUCTION NOTES

- 10 102.11-CONNECT TO EXISTING MANHOLE AS PER STD. DETAIL SS-04, SS-08.
- 1b 102.11/102.14 - RE-CONSTRUCT MANHOLE BENCH AND INVERT IN EXISTING MANHOLE. USE ALL-CRETE 5-MINUTE SET (FOSTROC INC.) OR EQUIVALENT FOR INVERT FINISHING.
- 2 102.11/108.5 - STANDARD 48" DIAMETER SANITARY SEWER MANHOLE; INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 80 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- 90 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- 25 103.3 - ASPHALT REMOVAL FOR TRENCH EXCAVATION: CUT AND REMOVE (OR FULL-DEPTH MILL) ASPHALT AS SHOWN.
- 27 103.18/401 - PAVEMENT AND ROAD BASE REPLACEMENT ON SIDE STREETS AND DRIVEWAYS: 3" HOT BITUMINOUS PAVEMENT (GRADING SX SUPERPAVE 75-GYRATION, PG 64-28 OIL), OVER 6" CLASS 6 ABC (SEE STD. DETAIL GU-03). PAID PER SY.
- 37 304 - 4" CLASS 6 ABC FOR SHOULDERS AND GRAVEL DRIVEWAYS. COMPACTED TO 90% AASHTO T-180.
- 38 703.05 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN AND 3" MAX.
- 44 210 - RESET FENCE (ALL TYPES). (ALL TYPES).
- 45 210 - RESET MAILBOX.
- 47 210 - RESET IRRIGATION SYSTEM COMPONENTS (PER EACH PROPERTY).
- 52 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- 102 CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).



MANHOLE DEFLECTION ANGLES



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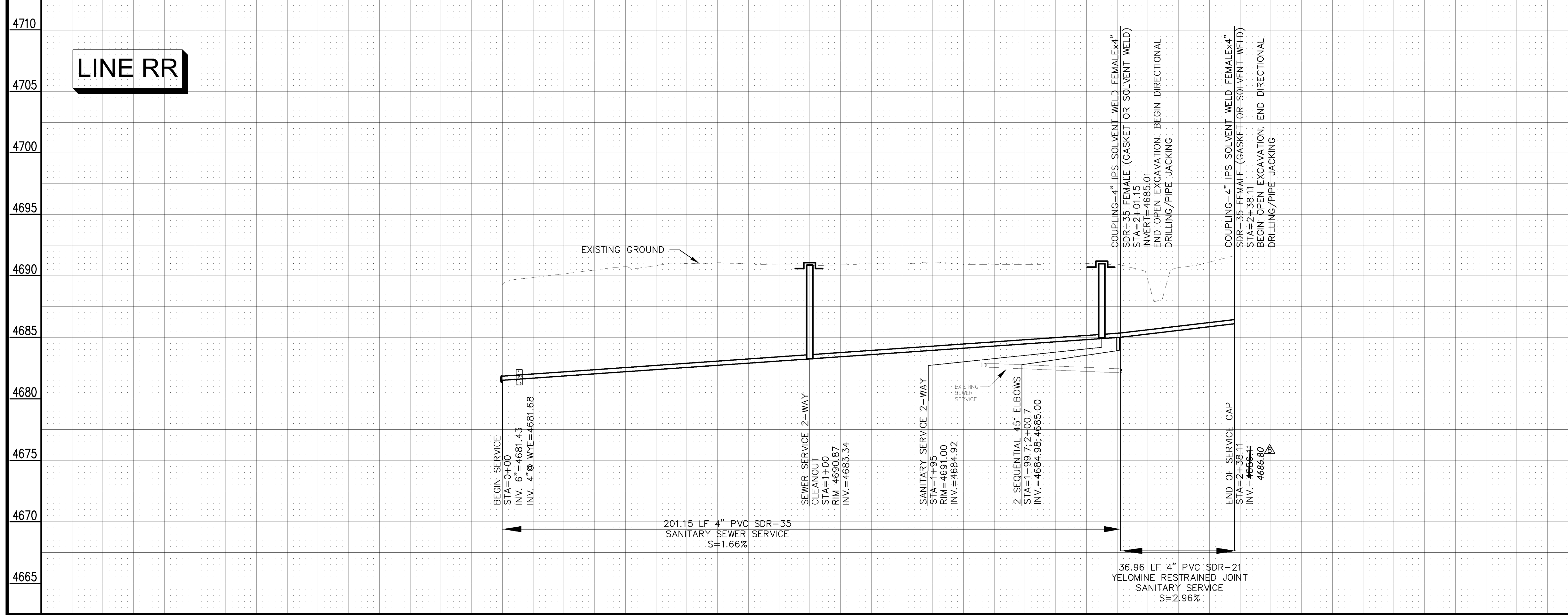
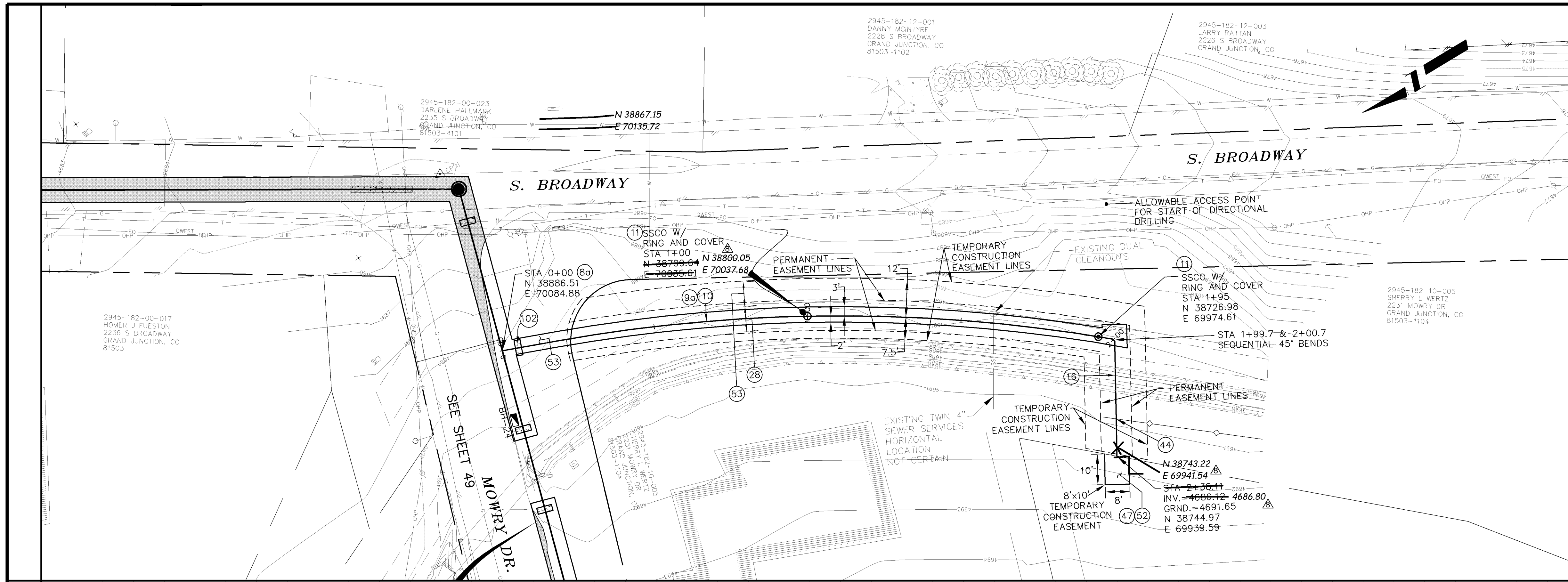
REVISION Δ	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE:
REVISION Δ			DAW/TLT	2005	PLAN
REVISION Δ			DESIGNED BY	2005	HORIZONTAL
REVISION Δ			CHECKED BY	2005	VERTICAL
REVISION Δ	AS BUILT RECORDS	04-2007	APPROVED BY		



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

REED MESA SANITARY IMPROVEMENT DISTRICT
LINE "R" - PLAN AND PROFILE
STA 12+00 TO STA 14+88.85

- (80) 102/103/104 - 4" SEWER SERVICE TAP, 6" X 4" FULL BODY WYE (SEE STD. DETAIL SS-06).
- (90) 102/103/104 - 4" SDR-35 PVC SANITARY SERVICE LINE WITH NATIVE BACKFILL MEETING 103.16 EARTH BACKFILL MATERIAL. INCLUDES SINGLE SERVICE LINE PER TRENCH, TYPE A BEDDING AND HAUNCHING, AND END-OF-SERVICE CAP.
- (11) 104.2.B - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (WITHIN R.O.W.). INCLUDES CLEANOUT RING AND COVER (SEE STD. DETAIL SS-07).
- (12) GCC56 - NEWSLETTER (APPROXIMATELY 170 PER DISTRIBUTION, MAILED WEEKLY).
- (28) 304 - 6" CLASS 6 ABC FOR GRAVEL ROAD SURFACE COURSE. COMPACT TO 95% AASHTO T-180. PAID PER SY.
- (44) 210 - RESET FENCE (ALL TYPES).
- (47) 210 - RESET IRRIGATION SYSTEM COMPONENTS (PER EACH PROPERTY).
- (52) 212 - SOD. STOCKPILE, KEEP FREE OF DETRITUS, AND REUSE EXISTING 12" TOPSOIL.
- (53) 212 - HYDRO-SEED WITH NATIVE SEED MIX.
- (102) CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM).



LINE RR

<p>REVISION Δ _____ DATE _____</p> <p>REVISION Δ _____ DATE _____</p> <p>REVISION Δ _____ DATE _____</p> <p>REVISION Δ AS BUILT RECORDS _____ DATE 01-2007</p>	<p>DRAWN BY TLT DATE 2005</p> <p>DESIGNED BY DRD DATE 2005</p> <p>CHECKED BY DRD DATE 2005</p> <p>APPROVED BY _____ DATE _____</p>	<p>SCALE:</p> <table border="1" style="margin: auto;"> <tr> <th>PLAN</th> <th>PROFILE</th> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> </table>	PLAN	PROFILE			<p>CITY OF Grand Junction COLORADO</p>	<p>PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION</p>	<p>REED MESA SANITARY IMPROVEMENT DISTRICT LINE "RR" - PLAN AND PROFILE STA 0+00 TO STA 2+38.11</p>
PLAN	PROFILE								