

NOTE: ALL LOTS WITH WATER METERS LOCATED AT ELEVATIONS 1340.00 OR LOWER SHALL BE REQUIRED TO INSTALL INDIVIDUAL PRESSURE REDUCING VALVES. THE FOLLOWING LOTS ARE INCLUDED IN THIS REQUIREMENT:

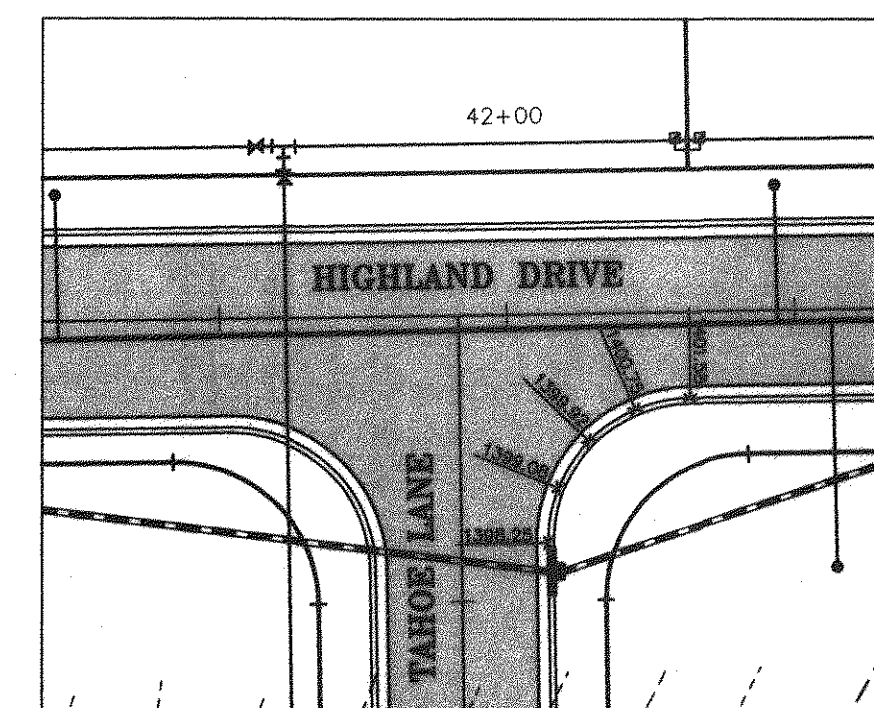
1, 2, 22 THRU 28, 65 THRU 69, 72 & 73

CLOVERDALE GARDENS
PB 6 PAGE 25

M W TURNER SUBDIVISION
PB 1 PAGE 54

M W TURNER SUBDIVISION
PB 1 PAGE 54

ROBERT L & DOROTHY P HARTMAN
DB 234 PAGE 52

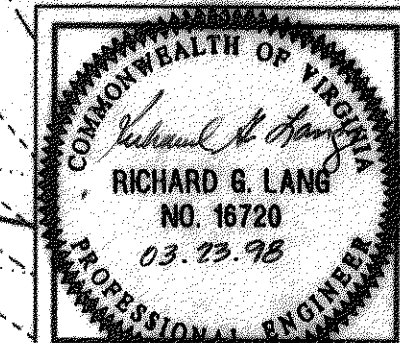


SCALE: 1" = 50'

DATE	6	5	4
REVS	6	5	4
PROJECT NAME: Highland Manor Section V			
DATE: March 17, 1998			
TYPE: Sewer			
LOCATION: Highland Drive			
TOTAL # SHEETS: 14			
# OF SETS: 1			

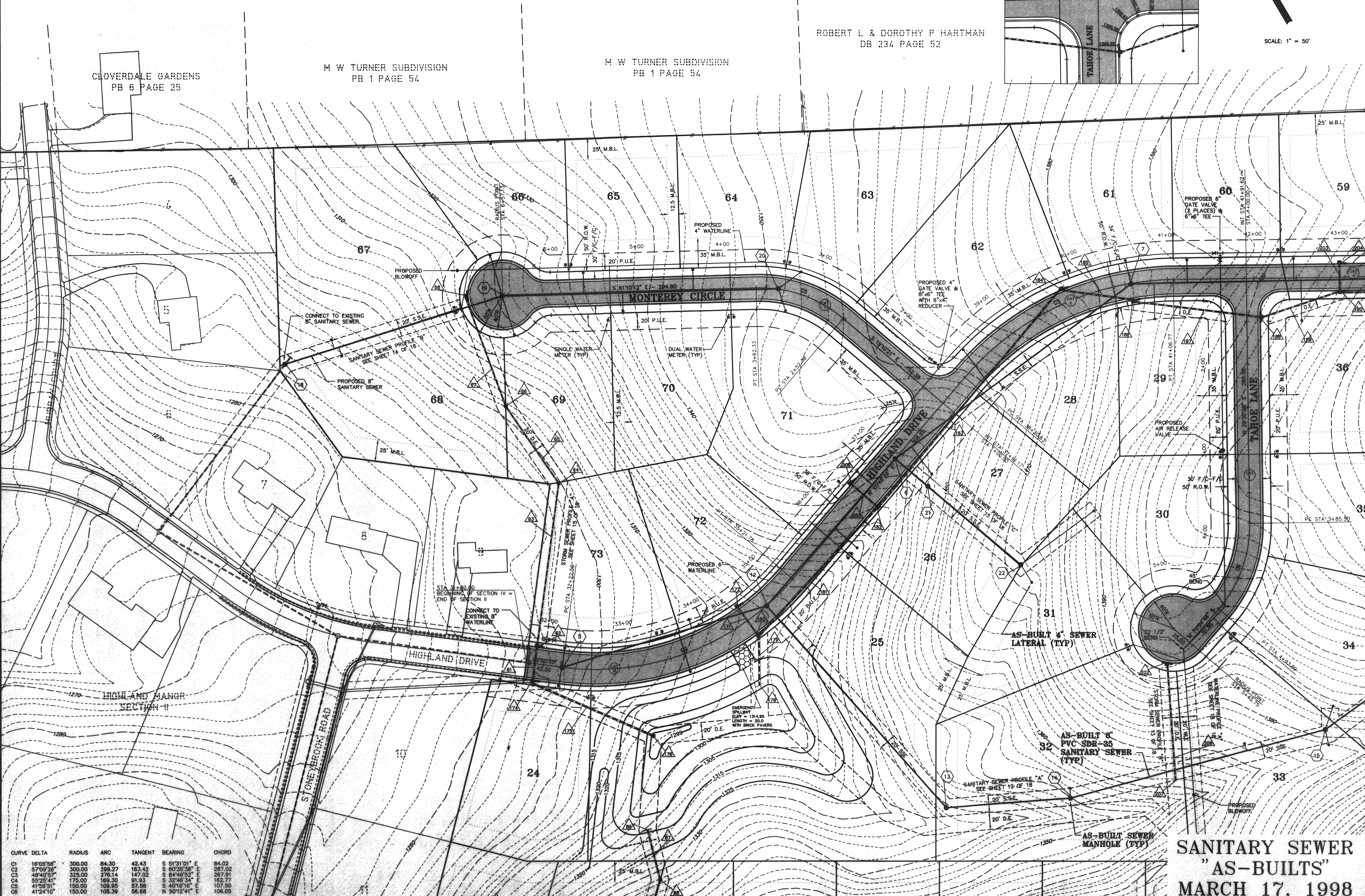
DATE: MARCH 17, 1998	SCALE: 1" = 50'	CHKD: RGL
JOB No.: 930105	ACAD #: 980223	

-LANG-
engineering co.
Consulting Engineers, Land Planners
P.O. BOX 18082 ROANOKE, VA 24014
(703) 772-0077



HIGHLAND MANOR
SECTION V
MASTER ENGINEERING PLAN
BLUE RIDGE DISTRICT
BOTETOURT COUNTY, VIRGINIA

SHEET NO.	5
OF	18



CURVE	DELTA	RADIUS	ARC	TANGENT	BEARING	CHORD
C1	16°05'58"	300.00	84.30	42.43	S 51°31'01" E	84.02
C2	57°09'26"	300.00	288.27	165.42	S 80°35'38" E	287.02
C3	42°40'57"	325.00	276.14	147.02	S 84°49'52" E	267.81
C4	55°25'41"	175.00	169.30	91.93	S 32°46'34" E	162.77
C5	41°59'51"	150.00	108.95	57.58	S 40°10'16" E	107.50
C6	41°24'10"	150.00	108.39	56.88	N 50°12'41" E	106.05

SANITARY SEWER
"AS-BUILTS"
MARCH 17, 1998

ROBERT L & DOROTHY P HARTMAN
DB 234 PAGE 52

APPLETREE VILLAGE
SECTION V

LOT 4
SECTION V

LOT 3
SECTION V
CONNECT TO EXISTING
BOOSTER PUMP
PRESSURIZED SYSTEM
(SEE DETAIL THIS SHEET)

JONATHAN ROAD PUMPING STATION
CONNECTION DETAIL
N.T.S.

STEEPLECHASE
SECTION I

SCALE: 1" = 50'

DATE	
REVISIONS	
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1	

DATE: MARCH 17, 1998
JOB No.: 930105
ACAD #: 980223
SCALE: 1" = 50'
CHMD: RGL

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(703)772-0077

COMMONWEALTH OF VIRGINIA
Richard G. Lang
No. 16720
09.23.98
PROFESSIONAL ENGINEER

HIGHLAND MANOR
SECTION V
MASTER ENGINEERING PLAN
BLUE RIDGE DISTRICT
BOTETOURT COUNTY, VIRGINIA

SHEET NO.
6
18
OF

CHARLES E &
DOROTHY LOYD, JR
DB 1232 PAGE 1937

SANITARY SEWER
"AS-BUILTS"
MARCH 17, 1998

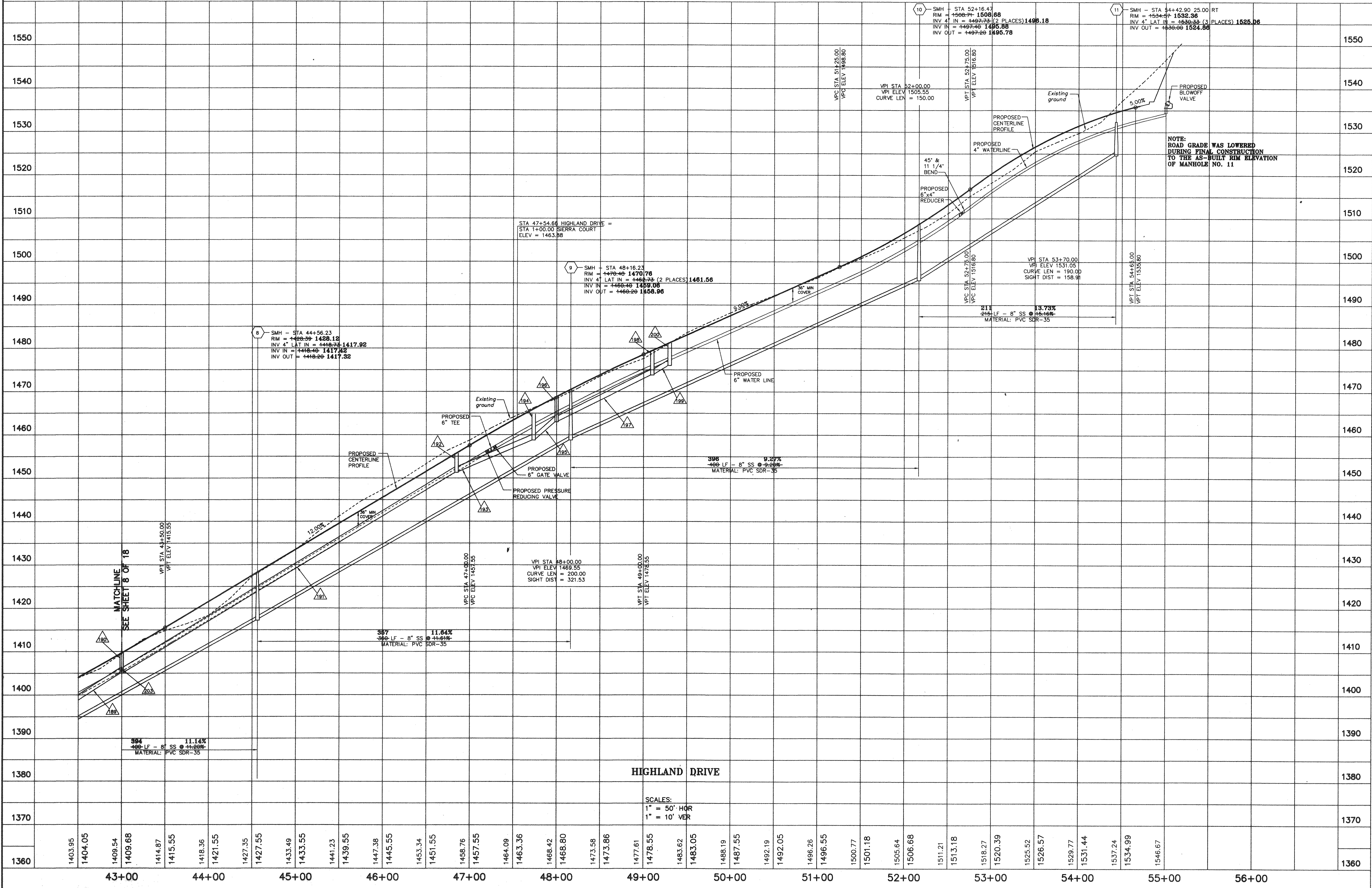
NOTE: LOTS 39 THRU 55 SHALL BE SERVED BY
WATER PROVIDED BY BOOSTER PUMP SYSTEM
LOCATED ON THE EXISTING TANK LOT IN
APPLETREE VILLAGE, SECTION V, COMMONLY
KNOWN AS THE JONATHAN ROAD PUMPING
STATION.

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ELEVATIONS 1340.00 OR LOWER SHALL BE
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REDUCING VALVES. THE FOLLOWING LOTS ARE
INCLUDED IN THIS REQUIREMENT:

1, 2, 22 THRU 25, 65 THRU 69, 72 & 73

CURVE DELTA	RADIUS	ARC	TANGENT	BEARING	CHORD
C1	16'05"58"	300.00	84.30	S 91°31'01" E	84.02
C2	57°09'28"	300.00	259.27	S 80°35'38" E	287.02
C3	48°40'57"	325.00	276.14	S 84°49'02" E	287.91
C4	55°25'41"	175.00	189.30	S 32°46'34" E	162.77
C5	41°59'51"	150.00	109.95	S 40°10'16" E	107.50
C6	41°2'41"	150.00	108.39	N 50°12'41" E	106.05

SANITARY SEWER
"AS-BUILTS"
MARCH 17, 1998



DATE	
REVISIONS	
6	
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DATE: MARCH 17, 1998
JOB No.: 930105
ACAD #: 980223

SCALE: 1" = 50'

CHKD: RGL

0 25 50 100 200

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engineering co.

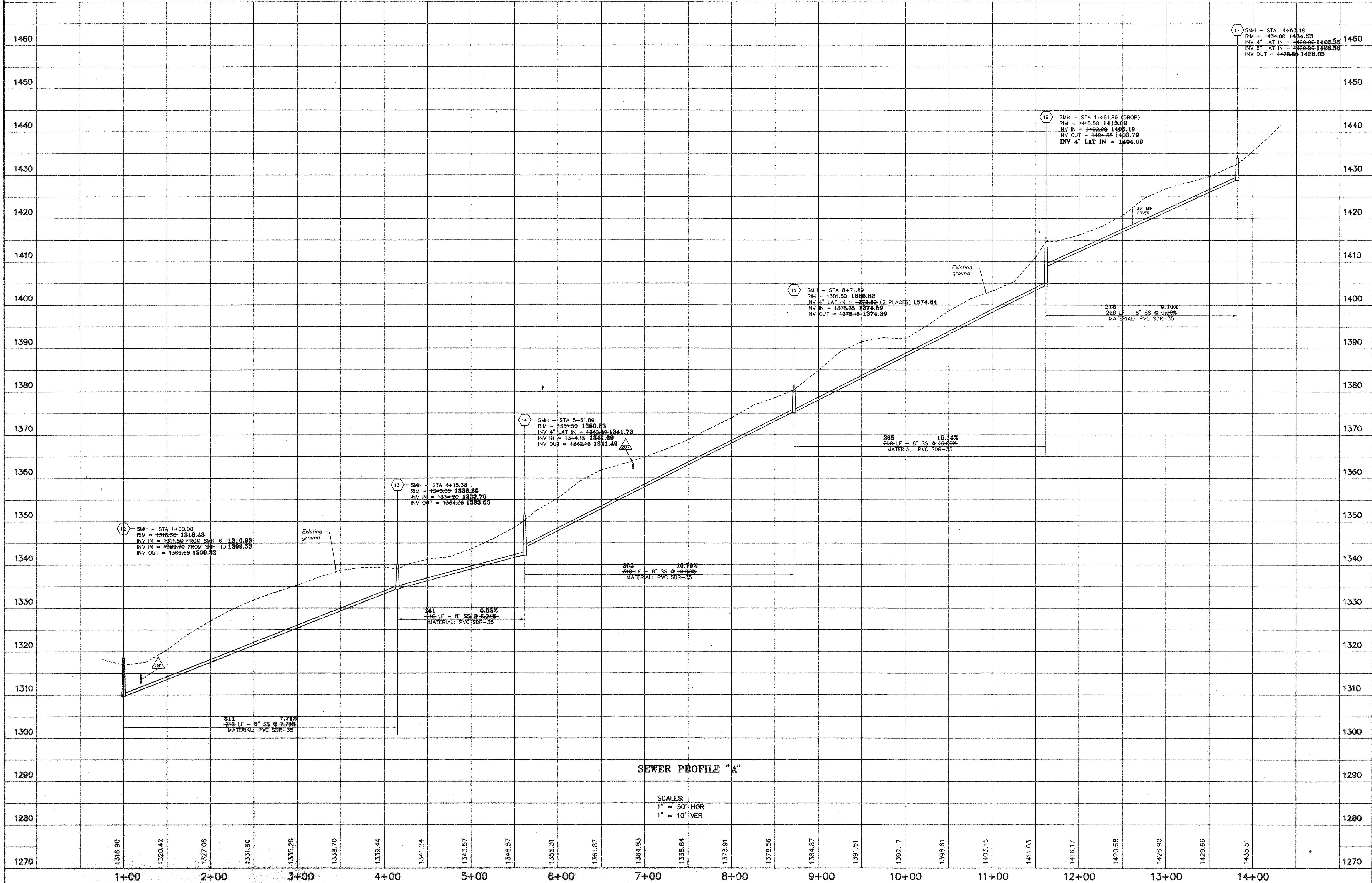
Consulting Engineers - Land Planners
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(703)772-0077

COMMONWEALTH OF VIRGINIA
Richard G. Lang
RICHARD G. LANG
NO. 16720
03.23.98
PROFESSIONAL ENGINEER

HIGHLAND MANOR
SECTION V
HIGHLAND DRIVE ROADWAY PROFILE
BLUE RIDGE DISTRICT
BOTETOURT COUNTY, VIRGINIA

SHEET NO.
9
18
OF

SANITARY SEWER
"AS-BUILTS"
MARCH 17, 1998



DATE	
REVISIONS	6 5 4 3 2 1

DATE: MARCH 17, 1998
JOB No.: 930105
ACAD #: 980223

SCALE: 1" = 50'
DRAWN BY:
CHKD: RGL

0 25 50 100 200

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COMMONWEALTH OF VIRGINIA
Richard G. Lang
No. 16720
03.23.98
PROFESSIONAL ENGINEER

HIGHLAND MANOR
SECTION V
SANITARY SEWER PROFILE "A"
BLUE RIDGE DISTRICT
BOTETOURT COUNTY, VIRGINIA

SHEET NO.
12
OF 18