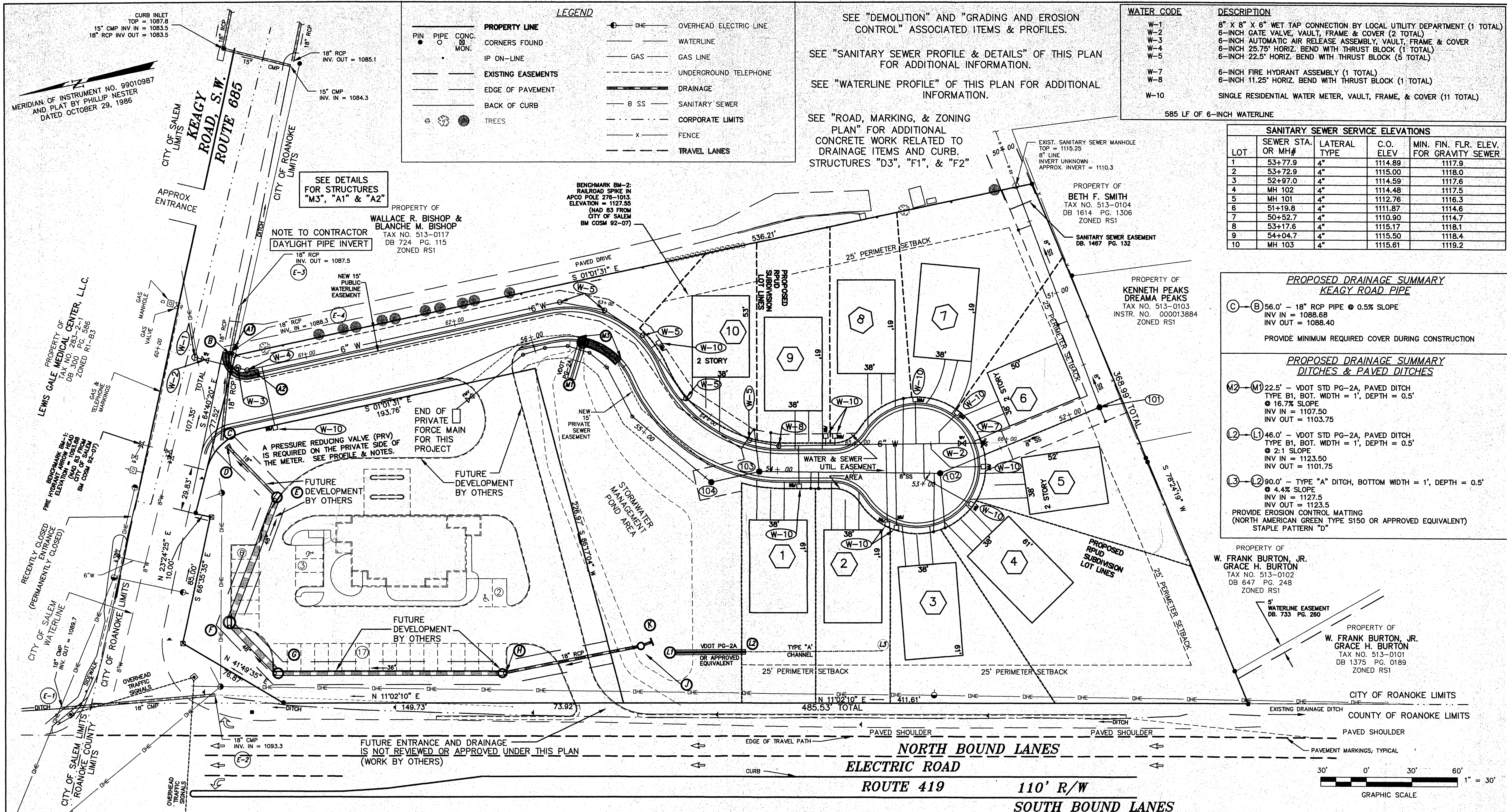




WATER CODE	DESCRIPTION
W-1	8" x 8" x 6" WET TAP CONNECTION BY LOCAL UTILITY DEPARTMENT (1 TOTAL)
W-2	6-INCH GATE VALVE, VAULT, FRAME & COVER (2 TOTAL)
W-3	6-INCH AUTOMATIC AIR RELEASE ASSEMBLY, VAULT, FRAME & COVER
W-4	6-INCH 25.75' HORIZ. BEND WITH THRUST BLOCK (1 TOTAL)
W-5	6-INCH 22.5' HORIZ. BEND WITH THRUST BLOCK (5 TOTAL)
W-7	6-INCH FIRE HYDRANT ASSEMBLY (1 TOTAL)
W-8	6-INCH 11.25' HORIZ. BEND WITH THRUST BLOCK (1 TOTAL)
W-10	SINGLE RESIDENTIAL WATER METER, VAULT, FRAME, & COVER (11 TOTAL)

585 LF OF 6-INCH WATERLINE

LOT	SEWER STA. OR MH#	LATERAL TYPE	C.O. ELEV.	MIN. FIN. FLR. ELEV. FOR GRAVITY SEWER
1	53+77.9	4"	1114.89	1117.9
2	53+72.9	4"	1115.00	1118.0
3	52+97.0	4"	1114.59	1117.6
4	MH 102	4"	1114.48	1117.5
5	MH 101	4"	1112.76	1116.3
6	51+19.8	4"	1111.87	1114.6
7	50+52.7	4"	1110.90	1114.7
8	53+17.6	4"	1115.17	1118.1
9	54+04.7	4"	1115.50	1118.4
10	MH 103	4"	1115.61	1119.2

PROPOSED DRAINAGE SUMMARY	
KEAGY ROAD PIPE	
(C)-(B) 56.0' - 18" RCP PIPE @ 0.5% SLOPE	INV IN = 1088.68 INV OUT = 1088.40
PROVIDE MINIMUM REQUIRED COVER DURING CONSTRUCTION	
PROPOSED DRAINAGE SUMMARY	
DITCHES & PAVED DITCHES	
(M2)-(M1) 22.5' - VDOT STD PG-2A, PAVED DITCH TYPE B1, BOT. WIDTH = 1', DEPTH = 0.5' @ 16.7% SLOPE INV IN = 1107.50 INV OUT = 1103.75	
(L2)-(L1) 46.0' - VDOT STD PG-2A, PAVED DITCH TYPE B1, BOT. WIDTH = 1', DEPTH = 0.5' @ 2:1 SLOPE INV IN = 1123.50 INV OUT = 1101.75	
(L3)-(L2) 90.0' - TYPE "A" DITCH, BOTTOM WIDTH = 1', DEPTH = 0.5' @ 4.4% SLOPE INV IN = 1127.5 INV OUT = 1123.5	
PROVIDE EROSION CONTROL MATTING (NORTH AMERICAN GREEN TYPE S150 OR APPROVED EQUIVALENT) STAPLE PATTERN "D"	

PROPERTY OF W. FRANK BURTON, JR. GRACE H. BURTON TAX NO. 513-0102 DB 647 PG. 248 ZONED RS1	PROPERTY OF W. FRANK BURTON, JR. GRACE H. BURTON TAX NO. 513-0101 DB 1375 PG. 0189 ZONED RS1
---	---

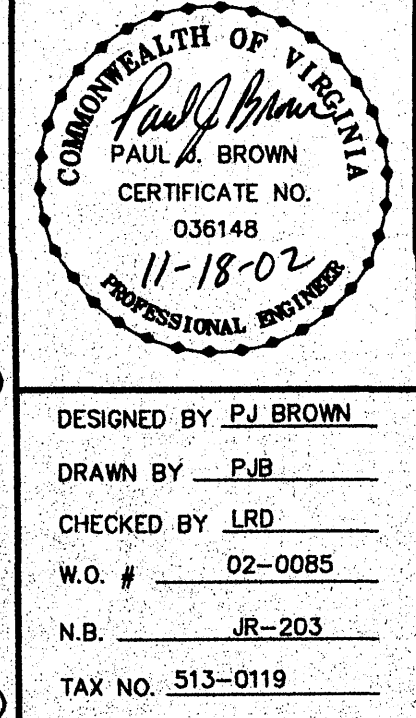
SSMH	DESCRIPTION
EX. SSMH	EXIST. 48" DIA. MANHOLE WITH FRAME & COVER TOP = 1115.25 PROP. 8" INV. IN = 1110.42 EX. 8" INV. OUT = 1110.3
(101) - EX. SSMH	154.65' - 8" SDR-35 SS PIPE @ 1.10% SLOPE 8" INV. IN = 1112.12 8" INV. OUT = 1110.42
(101)	PROP. 48" DIA. MANHOLE WITH FRAME & COVER TOP = 1116.00 PROP. 6" INV. IN = 1112.56 (LAT. LOT 5) PROP. 8" INV. IN = 1112.22 PROP. 8" INV. OUT = 1112.12
(102) - (101)	113.48' - 8" SDR-35 SS PIPE @ 1.10% SLOPE 8" INV. IN = 1113.47 8" INV. OUT = 1112.22

SSMH	DESCRIPTION
(102)	PROP. 48" DIA. MANHOLE WITH FRAME & COVER TOP = 1129.00 PROP. 6" INV. IN = 1113.73 (LAT. LOTS 3 & 4) PROP. 8" INV. IN = 1113.57 PROP. 8" INV. OUT = 1113.47
(103) - (102)	118.68' - 8" SDR-35 SS PIPE @ 1.10% SLOPE 8" INV. IN = 1114.88 8" INV. OUT = 1113.57
(103)	PROP. 48" DIA. MANHOLE WITH FRAME & COVER TOP = 1122.93 PROP. 6" INV. IN = 1115.04 (LAT. LOTS 9 & 10) PROP. 8" INV. IN = 1114.98 PROP. 8" INV. OUT = 1114.88
(104) - (103)	33.00' - 8" SDR-35 SS PIPE @ 1.10% SLOPE 8" INV. IN = 1115.34 8" INV. OUT = 1114.98

SSMH	DESCRIPTION
(104)	PROP. 48" DIA. MANHOLE WITH FRAME & COVER TOP = 1120.00 PROP. 1.5" INV. IN = 1115.60 (PRIVATE FORCE MAIN) PROP. 8" INV. OUT = 1115.34
(104) - (105)	CONTRACTOR SHALL INSTALL 220' OF 1.5" SCHEDULE 40 PVC FORCE MAIN WITH 6 HORIZONTAL BENDS AND CLEANOUTS AS SHOWN ON THE SANITARY SEWER PROFILE SHEET. CONTRACTOR SHALL PROVIDE 3' MINIMUM COVER
(105)	PROP. 1,000 GALLON SEPTIC TANK (PUMP CHAMBER) TOP = 1100.00 PROP. 4" INV. IN = 1095.33 PROP. 1.5" FM INV. OUT = 1095.25 PROP. INV. OF TANK = 1090.83
CONTRACTOR'S PROJECT ENDS WITH INSTALLATION OF PUMP CHAMBER, 1.5" FM CONNECTION & 4" BRICKED UP OPENING (PUMP NOT INCLUDED)	

PRIVATE SAN. SEWER BEARING TABLE			
FROM	TO	BEARING	DISTANCE
105	CO#5	S 27°53'30" E	50.00
CO#5	CO#5	S 05°23'30" E	15.00
CO#5	CO#4	S 05°51'30" W	15.00
CO#4	CO#3	S 28°21'30" W	15.00
CO#3	CO#2	S 50°51'30" W	15.00
CO#2	CO#1	S 73°21'30" W	36.00
CO#1	104	S 50°51'30" W	67.50
PUBLIC SAN. SEWER BEARING TABLE			
FROM	TO	BEARING	DISTANCE
104	103	S 01°46'48" E	33.00
103	102	S 11°38'35" W	118.68
102	101	S 11°35'41" E	113.48
101	EX. SSMH	N 80°19'29" E	154.65

PROPOSED DRAINAGE SUMMARY	
STORMWATER MANAGEMENT OUTFALL	
(H) 18" RCP PIPE END INV. OUT = 1097.50 (CURB INLET BY OTHERS)	
(J)-(H) 93' 18" RCP PIPE @ 3.71% SLOPE 18" INV. IN = 1100.95 18" INV. OUT = 1097.50	
(J) VDOT STD 48" RISER WITH DI-7, TYPE I GRATE TOP = 1106.50 15" INV. IN = 1101.05 18" INV. OUT = 1100.95	(BLOCK & GRAVEL INLET PROTECTION)
(K)-(J) 4' 15" RCP PIPE @ 2.50% SLOPE 15" INV. IN = 1101.20 15" INV. OUT = 1101.05	
(K) 15" VDOT STD ENDWALL WITH 3" ORIFICE PLATE INV = 1101.20	(BLOCK & GRAVEL INLET PROTECTION)



UTILITY PLAN
FOR
"VILLAGE ON THE CREST"
JAVA, L.L.C.
3844 KEAGY ROAD, S.W.
CITY OF ROANOKE, VIRGINIA
REVISED: NOVEMBER 18, 2002
DATE: MAY 09, 2002
SCALE: 1" = 30'

T. P. PARKER & SON
818 Boulevard
Post Office Box 39
Salem, Virginia 24153
Telephone: 540-387-1153
FAX: 540-388-5767
TAX NO. 513-0119