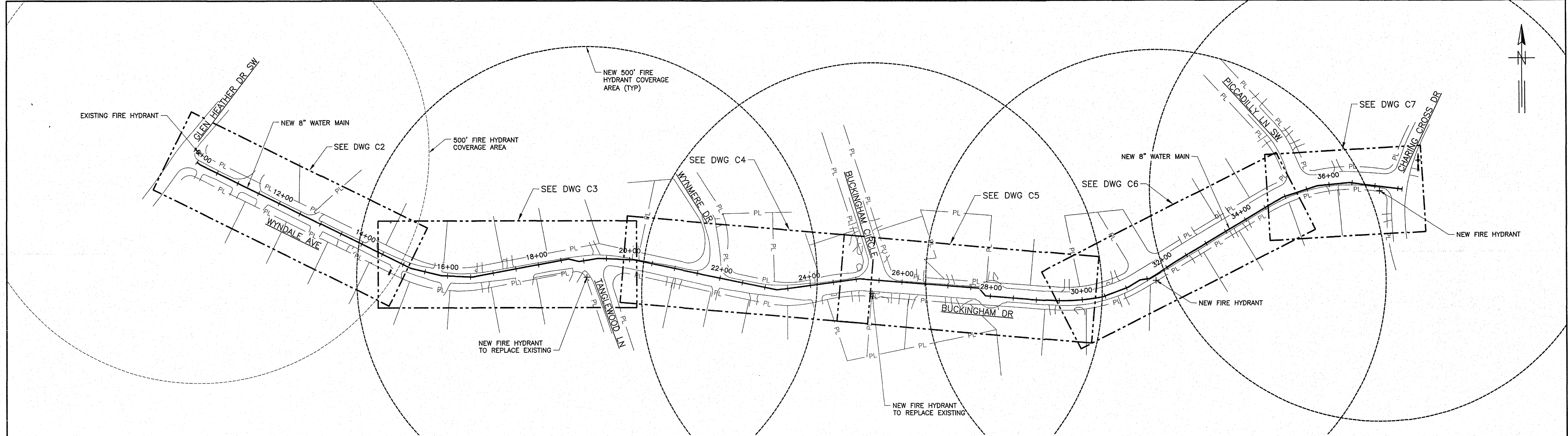




KEY MAP
SCALE: 1" = 100'

STATION AND CURVE REPORT ALIGNMENT: WATERMAIN			
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	10+00.00	3616891.3984	11039054.8247
END:	10+08.00	3616885.9266	11039061.9703
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	9.00	COURSE:	S 52° 33' 23.2004" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	10+09.00	3616885.9266	11039061.9703
END:	15+18.63	3616459.9531	11039518.7641
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	509.63	COURSE:	S 63° 40' 43.0908" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	15+18.63	3616459.9531	11039518.7641
END:	15+86.49	3616444.0106	11039584.7246
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	67.86	COURSE:	S 76° 24' 44.3937" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	15+86.49	3616444.0106	11039584.7246
END:	16+54.35	3616441.2427	11039652.5278
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	67.86	COURSE:	S 87° 39' 44.3938" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	16+54.35	3616441.2427	11039652.5278
END:	18+66.79	3616479.5779	11039861.4749
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	212.43	COURSE:	N 79° 39' 13.0867" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	18+66.79	3616479.5779	11039861.4749
END:	18+90.20	3616474.1444	11039884.2517
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	23.42	COURSE:	S 76° 34' 57.2141" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	18+90.20	3616474.1444	11039884.2517
END:	19+32.20	3616480.7744	11039925.7251
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	42.00	COURSE:	N 80° 55' 02.7859" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	19+32.20	3616480.7744	11039925.7251
END:	20+10.09	3616477.8286	11040003.5591
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	77.89	COURSE:	S 87° 49' 57.2141" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	20+10.09	3616477.8286	11040003.5591
END:	23+26.85	3616412.5481	11040313.5203
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	316.76	COURSE:	S 78° 06' 24.5628" E

DESCRIPTION	PT STATION	NORTHING	EASTING
START:	23+26.85	3616412.5481	11040313.5203
END:	25+07.94	3616436.1888	11040493.0549
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	181.08	COURSE:	N 82° 29' 54.8840" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	25+07.94	3616436.1888	11040493.0549
END:	27+67.23	3616416.4219	11040751.5953
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	259.29	COURSE:	S 85° 37' 40.4607" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	27+67.23	3616416.4219	11040751.5953
END:	27+89.40	3616399.5936	11040766.0330
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	22.17	COURSE:	S 40° 37' 40.4607" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	27+89.40	3616399.5936	11040766.0330
END:	28+97.72	3616390.5949	11040873.9706
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	108.31	COURSE:	S 85° 14' 03.3497" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	28+97.72	3616390.5949	11040873.9706
END:	29+36.07	3616386.6419	11040912.2722
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	38.35	COURSE:	S 87° 04' 52.1263" E
DESCRIPTION	STATION	NORTHING	EASTING
PC:	29+36.07	3616388.6419	11040912.2722
CENTER:		3616838.0581	11040935.1869
PT:	30+34.24	3616394.3353	11041010.0868
DESCRIPTION	VALUE	PARAMETER	VALUE
DELTA:	12° 30' 00.0000"	TYPE:	LEFT
RADIUS:	450.00		
LENGTH:	98.17	TANGENT:	49.28
MID-ORD:	2.67	EXTERNAL:	2.89
CHORD:	97.98	COURSE:	N 66° 40' 07.8737" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	30+34.24	3616394.3353	11041010.0868
END:	30+45.15	3616396.1509	11041020.8429
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	10.91	COURSE:	N 80° 25' 07.8737" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	30+45.15	3616396.1509	11041020.8429
END:	31+04.41	3616417.2249	11041076.2299
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	59.26	COURSE:	N 69° 10' 07.8737" E

DESCRIPTION	PT STATION	NORTHING	EASTING
START:	31+04.41	3616417.2249	11041076.2299
END:	31+34.47	3616432.6896	11041102.0005
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	30.05	COURSE:	N 59° 01' 56.2805" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	31+34.47	3616432.6896	11041102.0005
END:	31+55.28	3616435.7552	11041122.5918
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	20.82	COURSE:	N 81° 31' 56.2805" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	31+55.28	3616435.7552	11041122.5918
END:	31+75.28	3616446.1323	11041139.6890
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	20.00	COURSE:	N 56° 44' 39.3464" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	31+75.28	3616446.1323	11041139.6890
END:	32+03.68	3616461.9120	11041163.3018
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	28.40	COURSE:	N 56° 14' 47.7693" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	32+03.68	3616461.9120	11041163.3018
END:	32+23.68	3616472.6137	11041190.1908
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	19.99	COURSE:	N 57° 38' 22.0248" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	32+23.68	3616472.6137	11041190.1908
END:	34+95.61	3616612.5375	11041413.3607
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	271.93	COURSE:	N 59° 01' 56.2803" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	34+95.61	3616612.5375	11041413.3607
END:	35+73.60	3616637.0491	11041487.4015
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	77.99	COURSE:	N 71° 40' 57.3468" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	35+73.60	3616637.0491	11041487.4015
END:	36+43.85	3616643.9857	11041557.3036
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	70.25	COURSE:	N 84° 19' 58.4140" E
DESCRIPTION	PT STATION	NORTHING	EASTING
START:	36+43.85	3616643.9857	11041557.3036
END:	37+59.43	3616629.9331	11041672.0318
PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	115.59	COURSE:	S 83° 01' 00.5201" E

S:\WVA\WYNDALE AVE WATER MAIN\21 CAD\21.05 WORKING\DWG\G517001-0001 2019/02/07 11:20 AM HEBBE, DAVID

 GREELEY and HANSEN 9020 STONY POINT PARKWAY, SUITE 475 RICHMOND, VIRGINIA 23235	DESIGNED TJD	APPROVED		NO.	DATE	APPD	REVISION	SCALE 100 0 100 200 FT 1"=100'	WESTERN VIRGINIA WATER AUTHORITY WYNDALE AVENUE WATER MAIN REPLACEMENT	CIVIL	PROJECT NO.: 05170.01
	DRAWN DRH										DWG C1
	CHECKED RJC										SHEET 6 OF 13
											DATE FEBRUARY 2019 REV 0