

ABBREVIATIONS

| | |
|----------|--------------------------------|
| ABAN | ABANDON, ABANDONED |
| ABUT | ABUTMENT |
| ADJ | ADJACENT |
| AGGR | AGGREGATE |
| ANC | ANCHOR |
| APPROX | APPROXIMATE |
| BIT | BITUMINOUS |
| BJ | BELL JOINT |
| BL | BASE LINE |
| BEG | BEGIN, BEGINNING |
| BLDG | BUILDING |
| BM | BENCH MARK |
| BSP | BLACK STEEL PIPE |
| BV | BUTTERFLY VALVE |
| BVCE | BEGIN VERTICAL CURVE ELEVATION |
| BVCS | BEGIN VERTICAL CURVE STATION |
| C & G | CURB AND GUTTER |
| CI | CAST IRON |
| CL | CENTER LINE |
| CONST | CONSTRUCTION |
| CMP | CORRUGATED METAL PIPE |
| CMU | CONCRETE MASONRY UNITS |
| CND | CONDUIT |
| CO | CLEANOUT |
| COB | COMBINATION |
| CONC | CONCRETE (PORTLAND CEMENT) |
| CONN | CONNECT, CONNECTION |
| CONTR | CONTRACTOR |
| CONV | CONVEYOR |
| COR | CORNER |
| OR STONE | CRUSHED STONE |
| CTR | CENTER |
| CULV | CULVERT |
| D | DEPTH OR DEGREE OF CURVE |
| DE | DRAINAGE EASEMENT |
| DI | DROP INLET, DUCTILE IRON |
| DIA | DIAMETER |
| DIM | DIMENSION |
| DISC | DISCONNECT |
| DMH | DROP MANHOLE |
| DN | DOWN |
| DTL | DETAIL |
| DW, D/W | DRIVEWAY |
| DWL | DWELLING |
| DWG | DRAWING |
| EA | EACH |
| E.B.L. | EASTBOUND LANE |
| EL. ELEV | ELEVATION |
| ELEC | ELECTRICAL |
| ENGR | ENGINEER |
| ENTR | ENTRANCE |
| EOL | END OF LINE |
| EP | EDGE OF PAVEMENT |
| EQ | EQUAL |
| EQPT | EQUIPMENT |
| EVCE | END VERTICAL CURVE ELEVATION |
| EVCS | END VERTICAL CURVE STATION |
| EW | EACH WAY, ENDWALL |
| EXIST | EXISTING |
| FES | FLARED END SECTION |
| FF | FINISH FLOOR |
| FFE | FINISHED FLOOR ELEVATION |
| FIG | FIGURE |
| FL | FLOOR |
| FLEX | FLEXIBLE |
| FLG | FLANGE |
| FT | FOOT |
| FTG | FOOTING |
| FUT | FUTURE |
| GAL | GALLON |
| GALV | GALVANIZED |
| GAR | GARAGE |
| GND | GROUND |
| GR | GRAVEL |
| GOVT | GOVERNMENT |
| GPM | GALLONS PER MINUTE |
| GRTG | GRATING |
| GV | GATE VALVE |
| H&T | HUB AND TAC |
| HORIZ | HORIZONTAL |
| HPT | HIGH POINT |
| HYD | HYDRANT |
| ID | INSIDE DIAMETER |
| IN | INCH |
| INSUL | INSULATION |
| INV | INVERT |
| IP | IRON PIN (FOUND OR SET NOTED) |
| L | LENGTH, LONG |
| LF | LINEAL FOOT |
| LG | LONG |
| LP | LIGHT POLE |
| LR | LONG RADIUS |
| LT | LEFT |
| MAS | MASONRY |
| MATL | MATERIAL |
| MAX | MAXIMUM |
| MB | MAIL BOX |
| MBL | MINIMUM BUILDING LINE |

| | |
|------------|---|
| MECH | MECHANICAL |
| MFR | MANUFACTURER |
| MH | MANHOLE |
| MIN | MINIMUM |
| MJ | MECHANICAL JOINT |
| MON | MONUMENT |
| MTL | METAL |
| N & C | NAIL AND CAP |
| NIC | NOT IN CONTRACT |
| NO | NUMBER |
| NPW | NON POTABLE WATER |
| NTS | NOT TO SCALE |
| OC | ON CENTERS |
| OD | OUTSIDE DIAMETER |
| PVMT | PAVEMENT |
| PC | POINT OF CURVE |
| PCC | POINT OF COMPOUND CURVE |
| PER | PERIMETER |
| PERF | PERFORATED |
| PERP | PERPENDICULAR |
| PI | POINT OF INTERSECTION |
| PL | PLATE, PROPERTY LINE |
| POL | POINT ON LINE |
| PT | POINT OF TANGENCY |
| POT | POINT ON TANGENT |
| PP | POWER POLE |
| PRC | POINT OF REVERSE CURVE |
| PSI | POUNDS PER SQUARE INCH |
| PT | POINT OF TANGENT |
| PVC | POLYVINYL CHLORIDE |
| PVI | POINT OF VERTICAL INTERSECTION |
| PUE | PUBLIC UTILITY EASEMENT |
| R | RADIUS, RISER |
| RR | RAILROAD |
| RCP | REINFORCED CONCRETE PIPE |
| RD | ROAD |
| RDCR | REDUCER |
| REINF | REINFORCE, REINFORCEMENT |
| REF | REFERENCE |
| REL | RELOCATED |
| REQD | REQUIRED |
| REV | REVISION |
| RTE | ROUTE |
| RT | RIGHT |
| R/W | RIGHT OF WAY |
| SS | SANITARY SEWER |
| SAN | SANITARY |
| S/W | SIDEWALK |
| SD | STORM DRAIN |
| SE | SLOPE EASEMENT |
| SECT | SECTION |
| SER | SERVICE |
| SH | SHEET |
| SPEC | SPECIFICATION |
| SPECS | SPECIFICATIONS |
| SQ | SQUARE |
| SSTL | STAINLESS STEEL |
| STR | STREET |
| STA | STATION |
| STD | STANDARD |
| STL | STEEL |
| STRUCT | STRUCTURAL |
| SUR | SURVEY |
| T & B | TOP AND BOTTOM |
| TELE | TELEPHONE |
| TEMP | TEMPORARY |
| THK | THICK |
| TP | TELEPHONE POLE |
| TRTD | TREATED |
| TV | TELEVISION |
| TW | TOP OF WALL |
| TYP | TYPICAL |
| UG | UNDERGROUND |
| UON | UNLESS OTHERWISE NOTED |
| U.S.C.&G.S | UNITED STATES COAST AND GEODETIC SURVEY |
| V. VAL | VALVE, VENT |
| VAR | VARIABLE |
| VC | VERTICAL CURVE |
| VERT | VERTICAL |
| VESCR | VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS |
| VOL | VOLUME |
| VDOT | VIRGINIA DEPARTMENT OF TRANSPORTATION |
| V.S.D. | VERTICAL SIGHT DISTANCE |
| W.B.L. | WESTBOUND LANE |
| W | WIDE FLANGE, WIDE, WASTE, WATER |
| W/ | WITH |
| WL | WATER LINE |
| W/O | WITHOUT |
| WS | WATER SURFACE |
| WT | WATERTIGHT, WEIGHT |
| WVDH | WEST VIRGINIA DEPARTMENT OF HIGHWAYS |

LEGEND / SYMBOLS

| EXISTING | NEW | DESCRIPTION |
|----------|-----|-------------------------------------|
| | | BUILDING WITH PORCH OR STOOP |
| | | FOUNDATION ONLY |
| | | CONTOUR, CONTOUR WITH ELEVATION |
| | | SPOT ELEVATION |
| | | CONCRETE CURB |
| | | CONCRETE CURB & GUTTER |
| | | CONCRETE WALK OR SLAB |
| | | PAVEMENT |
| | | UNPAVED OR GRAVEL ROAD |
| | | CONSTRUCTION EASEMENT |
| | | PERMANENT EASEMENT |
| | | TREE LINE |
| | | TREE OR SHRUB |
| | | FENCE (EXISTING OR PROPOSED NOTED) |
| | | CENTERLINE CREEK, SWALE, DITCH |
| | | PROPERTY LINE |
| | | CENTERLINE OR BASELINE |
| | | FIELD SURVEY TRAVERSE POINT |
| | | P.C. OR P.T. |
| | | GEOLOGIC BORE HOLE |
| | | BENCH MARK (EXISTING OR SET NOTED) |
| | | STORM DRAIN AND ENDWALL |
| | | SANITARY SEWER |
| | | FORCE MAIN |
| | | GAS MAIN OR SERVICE LINE |
| | | WATER MAIN OR SERVICE LINE |
| | | OVERHEAD ELECTRICAL LINE |
| | | OVERHEAD TELEPHONE LINE |
| | | UNDERGROUND ELECTRICAL LINE |
| | | UNDERGROUND TELEPHONE LINE |
| | | PIPE FITTINGS |
| | | FIRE HYDRANT |
| | | GATE VALVE |
| | | CLEANOUT |
| | | MANHOLE |
| | | DROP INLET (CURB AND GRATING TYPES) |
| | | WM - WATER METER |
| | | DWM - DOUBLE WATER METER |
| | | TELEPHONE POLE, GUY AND ANCHOR |
| | | POWER POLE, GUY AND ANCHOR |
| | | LIGHT POLE |
| | | TELEPHONE PEDESTAL |
| | | BURIED TELEPHONE VAULT |
| | | PAVED DITCH |
| | | STORM PIPE (SIZE / TYPE NOTED) |
| | | CULVERT WITH FLARED END SECTION |
| | | AIR RELEASE VALVE / VAULT ASSEMBLY |
| | | BLOW OFF VALVE / VAULT ASSEMBLY |
| | | STEEL ENCASEMENT |
| | | CONCRETE ENCASEMENT |
| | | ABANDON OR REMOVE |
| | | LIMITS OF CONSTRUCTION |

GENERAL NOTES

THE LOCATION OF EXISTING UTILITIES, INCLUDING UNDERGROUND UTILITIES, IS INDICATED ON THE DRAWINGS IN SO FAR AS THEIR EXISTENCE AND LOCATION WERE KNOWN AT THE TIME OF PREPARATION OF THESE DRAWINGS. HOWEVER, NOTHING IN THESE CONTRACT DOCUMENTS SHALL BE CONSTRUED AS A GUARANTEE THAT SUCH UTILITIES ARE IN THE LOCATION INDICATED OR THAT THEY ACTUALLY EXIST OR THAT OTHER UTILITIES ARE NOT WITHIN THE AREA OF OPERATIONS. THE CONTRACTOR SHALL MAKE ALL NECESSARY INVESTIGATIONS TO DETERMINE THE EXISTENCE AND LOCATIONS OF SUCH UTILITIES. THE CONTRACTOR SHALL PAY FOR ANY DAMAGE TO AND FOR MAINTENANCE AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES.

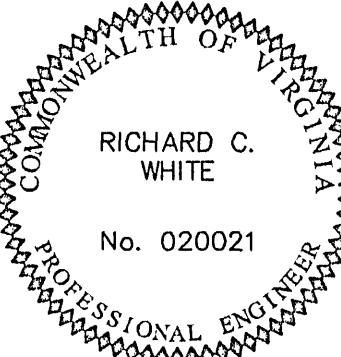
EXISTING WATER LINE LOCATIONS BOTH HORIZONTAL AND VERTICAL ARE APPROXIMATE. THE LOCATION IS NOT THE RESULT OF A FIELD SURVEY.

THE CONTRACTOR IS DIRECTED TO DIG AND LOCATE ALL UTILITIES IN ADVANCE OF PIPELAYING TO ALLOW FOR ADJUSTMENTS DUE TO CONFLICTS WITH EXISTING UTILITIES. SHOULD A CONFLICT ARISE THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY.

THE CONTRACTOR IS REQUIRED TO NOTIFY "MISS UTILITY" AT 1-800-552-7001 AT LEAST TWO, BUT NOT MORE THAN TEN, WORKING DAYS IN ADVANCE OF CONSTRUCTION.

VILLAGE IN ROANOKE
MULTI-FAMILY HOUSING
DEVELOPMENT
CITY OF ROANOKE, VIRGINIA

| NO. | DATE | DESCRIPTION | BY |
|-----|------|-------------|----|
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|----------------|----------|
| Designed By | RCW |
| Drawn By | KER |
| Checked By | |
| Approved By | RCW |
| Submitted By | RCW |
| Drawing | C-1 |
| Date | 02/01/01 |
| Scale | NONE |
| Commission No. | 1389H |