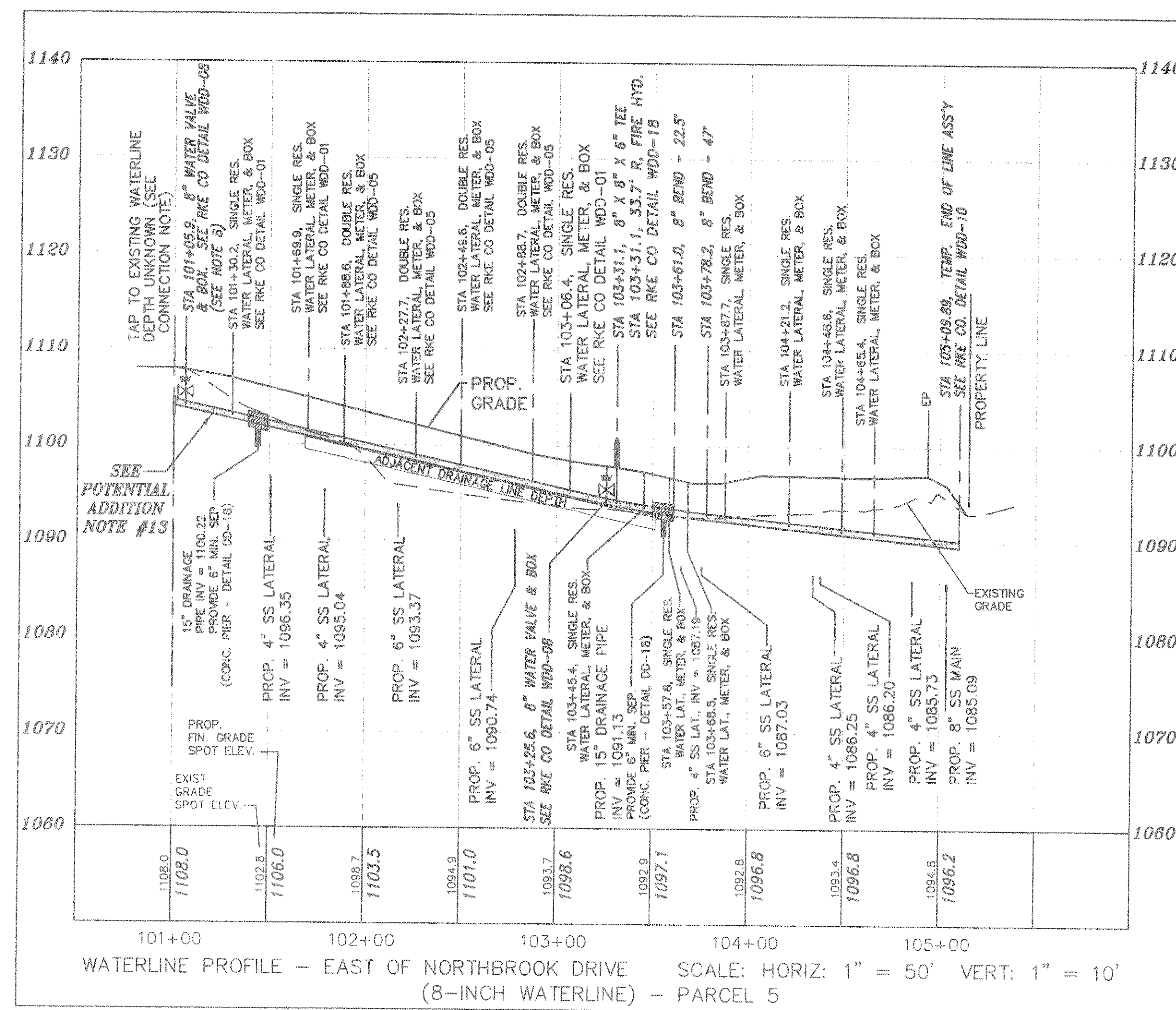
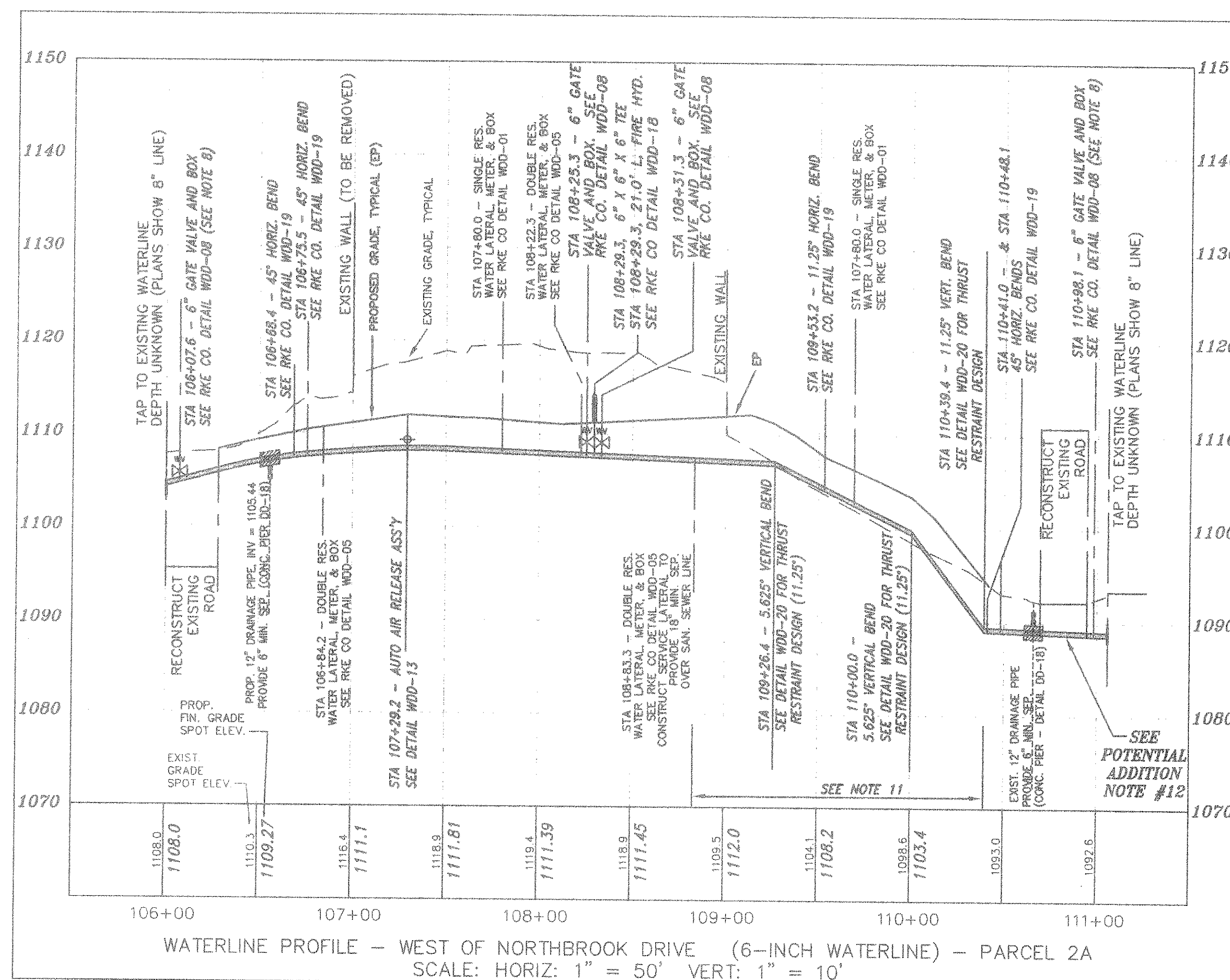




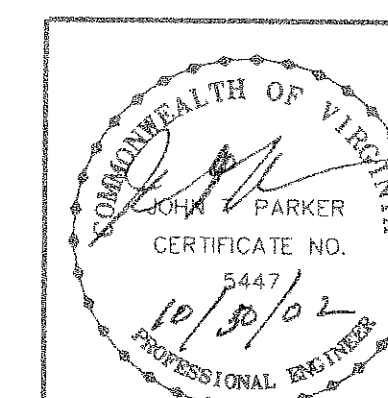
CONSTRUCTION NOTES FOR WATERLINE PLACEMENT

1. THE CONTRACTOR SHALL PROVIDE AT LEAST 3 FEET MINIMUM COVER OVER THE PROPOSED WATER MAINS.
2. ALL WATER MAINS AND WATER LATERALS SHALL BE PLACED ABOVE DRAINAGE LINES AT CROSSINGS. ALL UTILITY CROSSINGS SHALL MAINTAIN 18-INCH MINIMUM VERTICAL SEPARATION EXCEPT WHERE NOTED ON THIS PROFILE. WHERE A MINIMUM SEPARATION OF 6 INCHES IS SHOWN BETWEEN WATER MAINS AND OTHER UTILITIES, BOTH UTILITIES SHALL BE CONCRETE ENCASED AS SHOWN IN A DETAIL ON THE DRAINAGE PROFILES (AND AS SHOWN ON ROANOKE COUNTY DETAIL DD-16). WATER LATERALS CROSSING THE DRAINAGE LINES SHALL BE INSTALLED WITH A MINIMUM OF 6-INCH VERTICAL SEPARATION AND PLACED ABOVE THE DRAINAGE LINES. NO CONCRETE ENCASEMENT IS REQUIRED FOR THE LATERAL CROSSINGS.
3. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 10 FEET OF HORIZONTAL SEPARATION BETWEEN THE WATERLINE AND OTHER UTILITIES.
4. ALL METER AND VALVE BOXES ARE REQUIRED TO CARRY TRAFFIC LOADING.
5. REFERENCE IS DIRECTED TO THE SHEET C1 OF THESE PLANS FOR ALLOWABLE WATERLINE PIPE. ALL METERS SHALL BE STANDARD 5/8-INCH METERS FOR THIS PROJECT.
6. THE CONTRACTOR SHALL CONSTRUCT ALL WATERLINE IN ACCORDANCE WITH THE ROANOKE COUNTY WATER AND SEWER REGULATIONS, AS REVISED APRIL 2000.
7. FOR VERTICAL BENDS, THE CONTRACTOR SHALL REVIEW THE ROANOKE COUNTY DETAIL WDD-19 FOR THE SIZING OF THE REQUIRED THRUST BLOCKS.
8. THE CONTRACTOR SHALL COORDINATE WITH THE ROANOKE COUNTY UTILITY DEPARTMENT FOR THE ACTUAL CONNECTION TO THE EXISTING WATER LINE. THE CONTRACTOR SHALL PROVIDE AT LEAST 3 DAYS NOTICE TO THE UTILITY DEPARTMENT. ROANOKE COUNTY SHALL PROVIDE THE SLEEVE AND VALVE. ROANOKE COUNTY SHALL PERFORM THE ACTUAL TAP CONNECTION. THE CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, BACKFILL, AND PAVEMENT REPAIR.
9. AN EXISTING WATER VALVE WAS PLACED WITH THE ORIGINAL 8" WATERLINE FOR FUTURE EXPANSION. NO KNOWLEDGE IS AVAILABLE REGARDING THE SIZE OF THIS VALVE OR STUB LINE. THIS WATER VALVE IS APPROXIMATELY 4 FEET FROM A WET TAP CONNECTION, BUT SHOULD NOT PRESENT ANY DIFFICULTIES WITH THE PROPOSED CONNECTIONS.
10. FOR THE WATERLINE LOCATED WEST OF NORTH BROOK DRIVE, (6-INCH LINE) THE CONTRACTOR SHALL EXCAVATE A LARGE AMOUNT OF MATERIAL PRIOR TO PLACING THE PROPOSED WATERLINE. FOR THE WATERLINE LOCATED EAST OF NORTH BROOK DRIVE, THE CONTRACTOR SHALL NOTE THAT ADDITIONAL FILL MATERIAL IS NECESSARY PRIOR TO PLACING THE PROPOSED WATERLINE.
11. FOR THE WATERLINE LOCATED WEST OF NORTH BROOK DRIVE, (6-INCH LINE) TWO 5.625" VERTICAL BENDS ARE SHOWN AT STA 109+26.4 AND STA 110+00. THESE VERTICAL BENDS MAY BE SUBSTITUTED WITH A LARGE RADIUS BEND; HOWEVER, THE LARGE RADIUS BEND WILL RESULT IN ADDITIONAL COVER OVER THE WATERLINE, IN EXCESS OF 3' COVER, AND WILL AFFECT THE DOUBLE RESIDENTIAL METER LATERAL AT STA 108+83.3.



POTENTIAL ADDITION NOTES

12. IN THE AREA OF STATION 110+00 TO 111+00, FOR THE SIX-INCH WATERLINE CONNECTION (WEST CONNECTION, PARCEL 2A) SHOULD ANY PORTION OF THE PROPOSED SIX-INCH WATERLINE BE LOWER THAN THE CONNECTION POINT OF THE EXISTING 8-INCH LINE, THE CONTRACTOR SHALL INSTALL AN "IN-LINE" BLOW OFF VALVE PER ROANOKE COUNTY DETAIL WDD-11.
13. IN THE AREA OF STATION 101+00 TO 102+00, FOR THE EIGHT-INCH WATERLINE CONNECTION (EAST CONNECTION, PARCEL 5) SHOULD ANY PORTION OF THE PROPOSED EIGHT-INCH WATERLINE BE HIGHER THAN THE CONNECTION POINT OF THE EXISTING 8-INCH LINE, THE CONTRACTOR SHALL INSTALL AN "AUTOMATIC AIR RELEASE ASSEMBLY" PER ROANOKE COUNTY DETAIL WDD-12.



WATERLINE PROFILES
FOR
MEADOWBROOK VILLAGE TOWNHOUSES
PHASE V
BARRENS DEVELOPMENT CORPORATION
NORTH BROOK DRIVE & U.S. ROUTE 11,
HOLLINS MAGISTERIAL DISTRICT
ROANOKE COUNTY, VIRGINIA
REVISED: 14 OCT 2002 SCALE: 1" = 50'

DESIGNED BY PJ BROWN
DRAWN BY PJB
CHECKED BY JTP, SR
W.O. # 01-0207
N.B. RR-5
TAX NO. 028.05-01-12/1



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