

A MINIMUM COVER OF THREE (3) FEET IS REQUIRED OVER ALL OF THE PROPOSED WATER LINES. THE THREE FEET IS MEASURED FROM THE TOP OF THE CASING OR PIPE IF NO CASING IS REQUIRED.

ALL WATER LINES SHALL BE INSTALLED AS SHOWN ON THE PLANS. ALL PIPES, VALVES, AND FITTINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE WESTERN VIRGINIA WATER AUTHORITY DESIGN AND CONSTRUCTION STANDARDS.

WATER LINES SHALL BE PRESSURE TESTED, DISINFECTED, AND TESTED IN ACCORDANCE WITH AWWA STANDARDS (LATEST EDITION), AND WITH THE WESTERN VIRGINIA WATER AUTHORITY DESIGN & CONSTRUCTION STANDARDS

THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, AND NECESSARY TAPS AND SHALL PERFORM ALL WORK REQUIRED FOR INSTALLATION, STERILIZATION, TESTING, AND FLUSHING. THE WET TAP WILL BE MADE BY THE WYWA FOLLOWING PAYMENT AND SCHEDULING.

ALL TRENCHES SHALL BE THOROUGHLY COMPACTED TO PREVENT SETTLEMENT AND DAMAGE TO FUTURE PAVEMENT AND STRUCTURES. TRACER WIRE AND NON-DETECTABLE WARNING TAPE SHALL BE INSTALLED AS REQUIRED BY THE WESTERN VIRGINIA WATER AUTHORITY.

CONTRACTOR IS RESPONSIBLE FOR LOCATING AND UNCOVERING ALL VALVE
VAULTS, METERS, ETC..., AFTER PAVING AND ADJUSTING TO FINAL GRADE.

THE WATER SERVICE FOR THIS PROJECT REQUIRES A CONCRETE VAULT. CONTACT CLEARFLOW AT (540) 942-3300 TO ORDER THE VAULT. THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT, COORDINATION OF THE VAULT DELIVERY, AND INSTALLATION OF THE WATER SERVICE BETWEEN THE AUTHORITY MAIN AND THE VAULT. PRIOR TO START OF CONSTRUCTION, CALL THE AUTHORITY INSPECTOR AT 537-3243. THE CONTRACTOR IS RESPONSIBLE FOR ALL ASPECTS AND COMPONENTS OF THE METER SERVICE AND VAULT IN ACCORDANCE WITH AUTHORITY STANDARDS.

BURIED WATER LINES 2" TO 8" IN DIAMETER SHALL BE DR21 PVC PIPE. PVC PLASTIC PRESSURE PIPE SHALL MEET DR21 PVC REQUIREMENTS FOR ASTM D2241.

ALL MATERIALS AND METHODS MUST COMPLY WITH THE WWA WATER AND SEWER DESIGN & CONSTRUCTION STANDARDS, CURRENT EDITION

ALL PVC FITTINGS AND PIPE SHALL BE OF A GASKET PUSH ON RESTRAINED JOINT PIPE SYSTEM, SUCH AS THE USE OF MUELLER COMPANY "AQUAGRIP" SYSTEM, OR EQUAL AS APPROVED BY THE WESTERN VIRGINIA WATER AUTHORITY.

CONTRACTOR SHALL CONSTRUCT THRUST BLOCKS AT ALL LOCATIONS AS
REQUIRED BY THE WESTERN VIRGINIA WATER AUTHORITY.

AN APPROPRIATELY SIZED CASING WILL BE REQUIRED WHERE THE WATER LINE
CROSSES UNDER THE PAVEMENT WITHIN THE VDOT RIGHT-OF-WAY.

CONTACT MISS UTILITY PRIOR TO THE START OF CONSTRUCTION TO LOCATE ALL UTILITY LINES. 1-800-552-7001 OR 811. DO NOT BEGIN WATERLINE CONSTRUCTION UNTIL ALL UTILITY LINES HAVE BEEN LOCATED AND FIELD VERIFIED.

VERIFY ALL UTILITY DEPTHS AND SIZES PRIOR TO THE WATER LINE INSTALLATION
TO ENSURE NO CONFLICTS OR HAZARDS.

CONFIRM SERVICE LINE REQUIREMENTS WITH THE SPRINKLER DESIGNER, MAGIC CITY SPRINKLER, DAVID GORDON (540) 345-9818.

ENSURE THAT THE FIRE DEPARTMENT CONNECTION MEETS THE REQUIREMENTS OF THE WESTERN VIRGINIA WATER AUTHORITY AND THE ROANOKE COUNTY FIRE DEPARTMENT.

WWVA AVAILABILITY NUMBER 08-060


PLAN APPROVAL AND A LAND USE PERMIT FROM VDOT IS REQUIRED. CONTACT THE VDOT SALEM RESIDENCY OFFICE, 387-5488

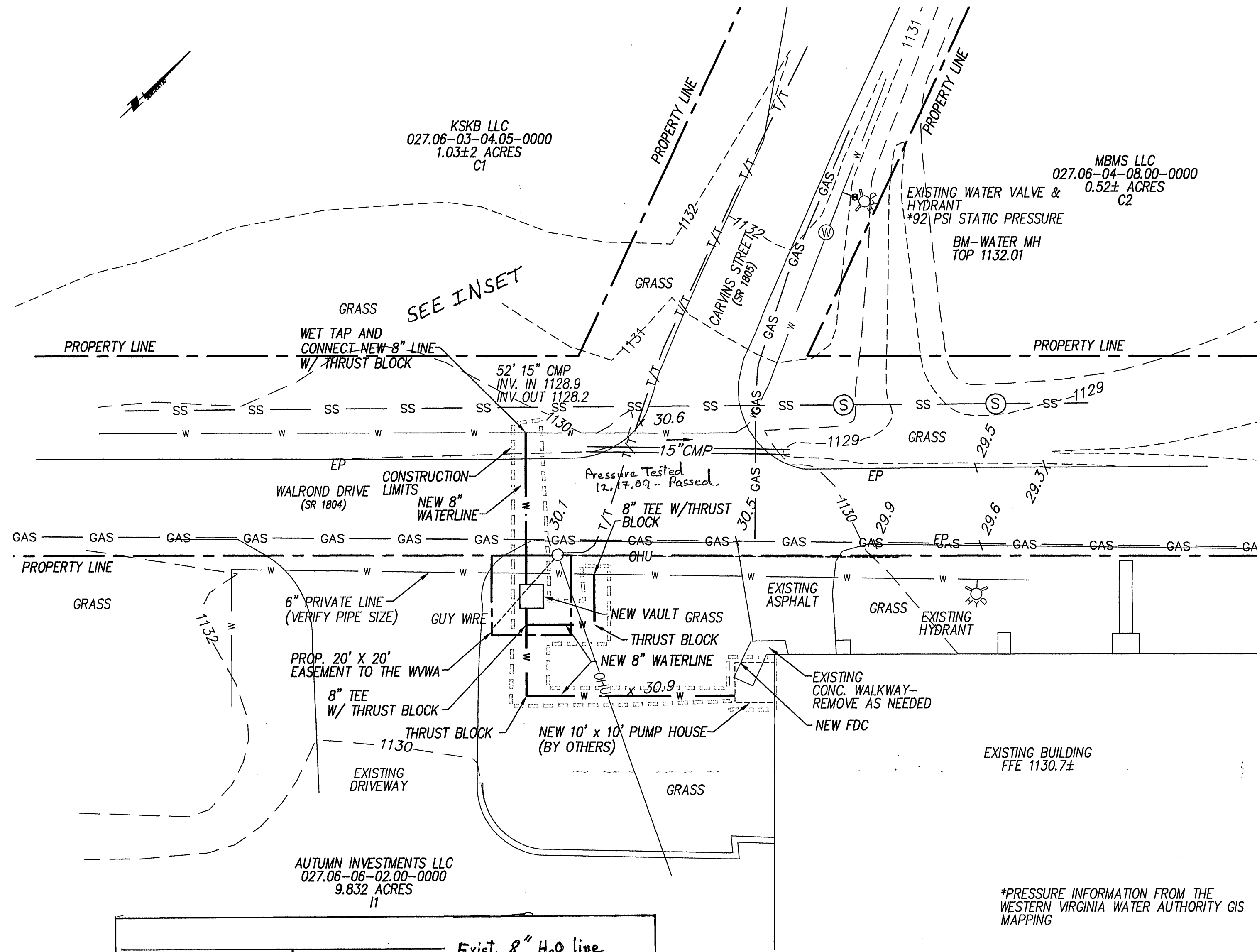
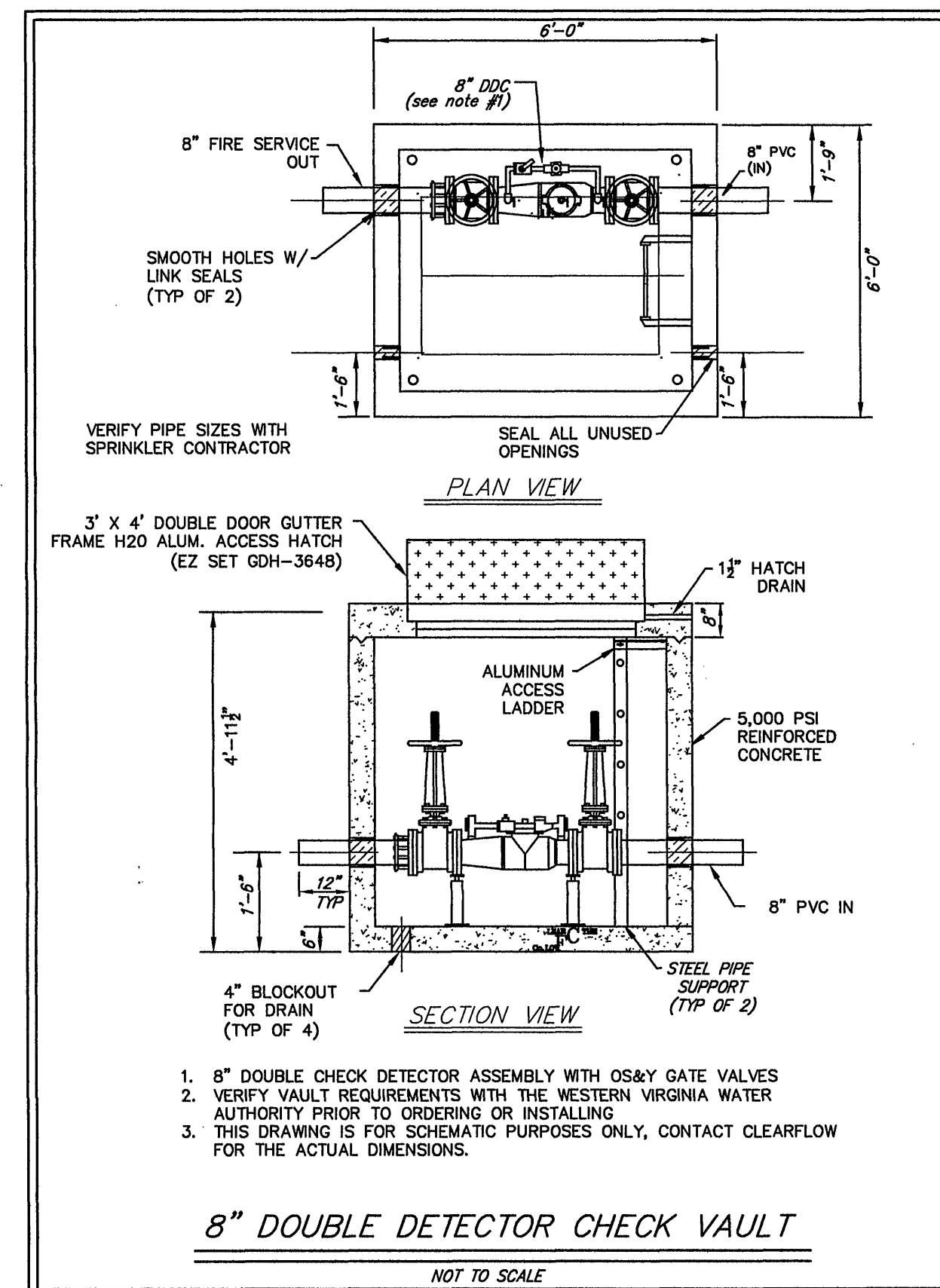
THE ELEVATIONS OF THE EXISTING UNDERGROUND UTILITIES WERE DETERMINED BY
SAVE UTILITY LINES, INC. UTILIZING ELECTRONIC DEPTH FINDERS.

THE WATERLINE LOCATION WAS NOT ACCURATELY DETERMINED DUE TO THE LACK OF A TRACER WIRE. THE LOCATION IS BASED ON THE GIS MAPPING AND UTILITY MARKINGS. THE CONTRACTOR MUST ACCURATELY DETERMINE ALL UTILITY LOCATIONS AND DEPTHS.

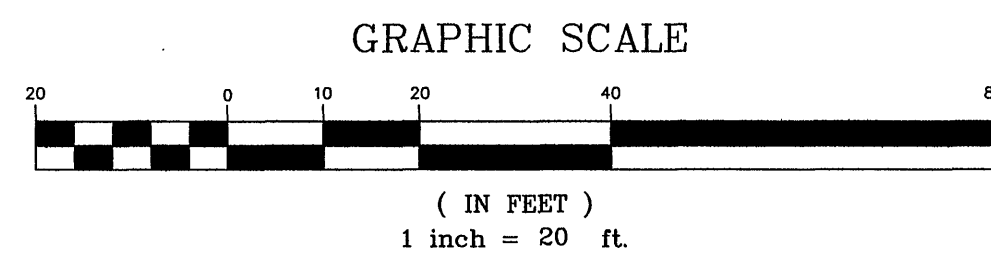
THE CONTRACTOR MUST ADHERE TO ALL OF THE APPLICABLE ITEMS IN THE
VDOT LAND USE PERMIT.

THE ROADWAY CAN NOT BE OPEN CUT. IF DIFFICULTIES ARE ENCOUNTERED DURING THE JACKING/BORING OPERATION, THE CONTRACTOR MUST CONTACT THE VDOT SALEM RESIDENCY FOR EXPLICIT PERMISSION TO OPEN CUT THE ROAD.

x 29.6	EXISTING SPOT ELEVATION
(S)	EXISTING SANITARY MANHOLE
(W)	EXISTING WATER MANHOLE
	EXISTING HYDRANT
—— GAS ——	EXISTING GAS LINE
—— SS ——	EXISTING SANITARY SEWER LINE
—— T/T ——	EXISTING TELEPHONE LINE
—— W ——	PROPOSED WATER LINE
—— W ——	EXISTING WATER LINE
—— CONSTRUCTION LIMITS ——	CONSTRUCTION LIMITS

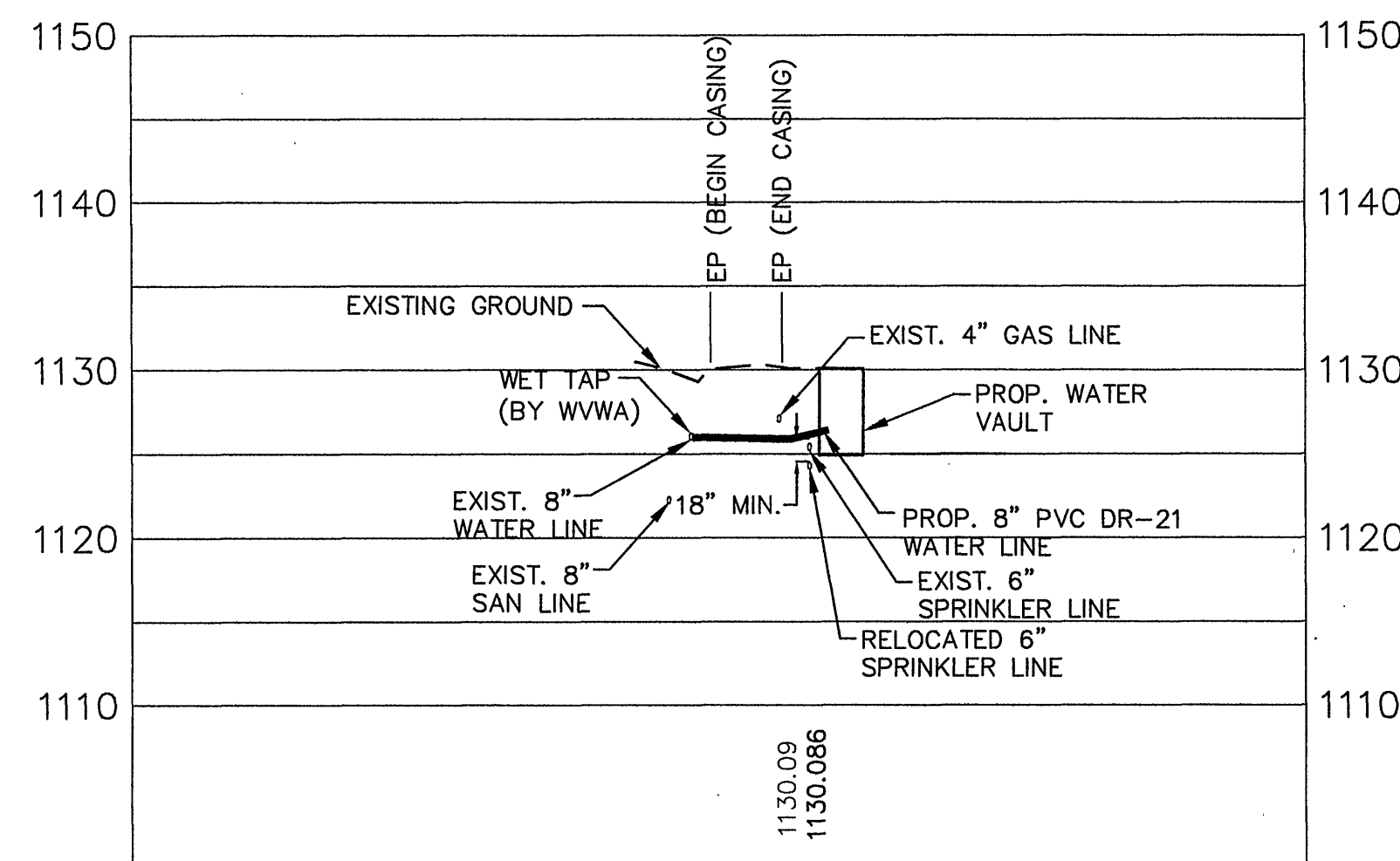


*PRESSURE INFORMATION FROM THE
WESTERN VIRGINIA WATER AUTHORITY GIS
MAPPING



INSET

PROPOSED 8" WATERLINE



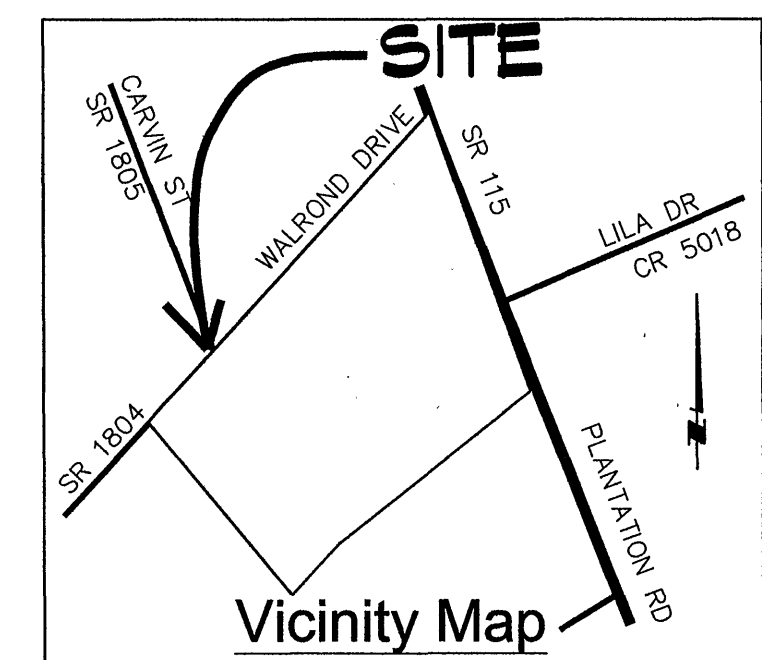
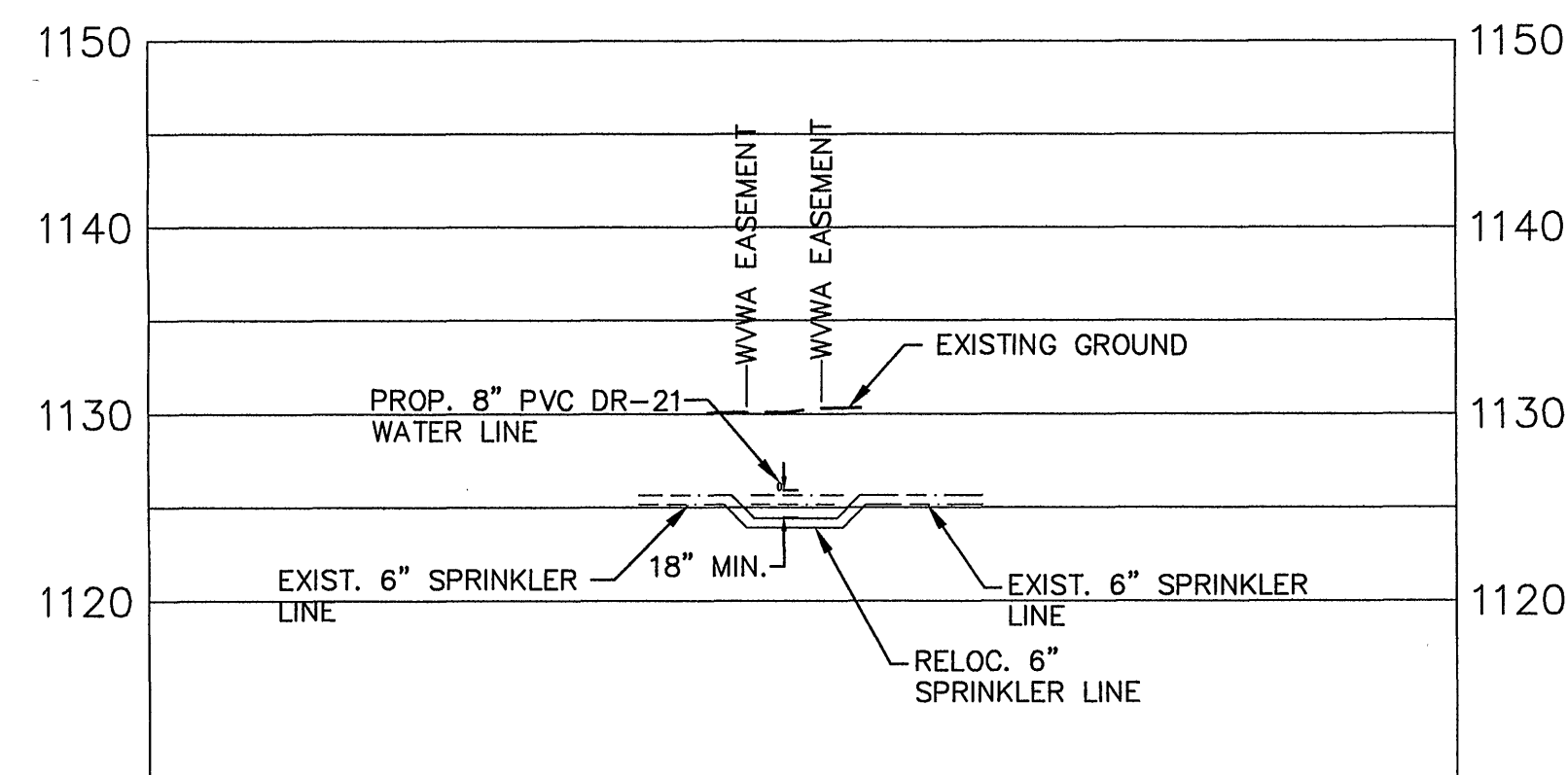
NOTES:

1. CASING REQUIRED UNDER THE LIMITS OF THE PAVEMENT FOR ROUTE 1804.
2. WET PAVE MADE BY THE WYWA, CONTRACTOR TO SUPPLY ALL MATERIALS.
3. 1' MINIMUM CLEARANCE BETWEEN THE CASING AND THE GAS LINE
4. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION
5. 3" MINIMUM COVER BETWEEN SURFACE AND CASING
6. THE WATERLINE MUST BE JACKED AND BORED OR DIRECTIONAL DRILLED.
7. 18" MINIMUM SEPARATION BETWEEN THE PROPOSED 8" WATERLINE AND THE EXISTING 6" FIRE LINE.
8. RELOCATE THE EXISTING 6" FIRE LINE 18" BELOW THE PROPOSED 8" WATERLINE
9. ALL JOINTS OF THE NEW 8" WATER SUPPLY LINE AND THE RELOCATED 6" SPRINKLER LINE MUST BE RESTRAINED, REFER TO THE WYWA WATER AND SEWER DESIGN & CONSTRUCTION STANDARDS.

PROFILE

1"=50' HORIZONTAL
1"=10' VERTICAL

EXISTING 6" FIRE LINE



As-Built 12.17.09 K. Winslow