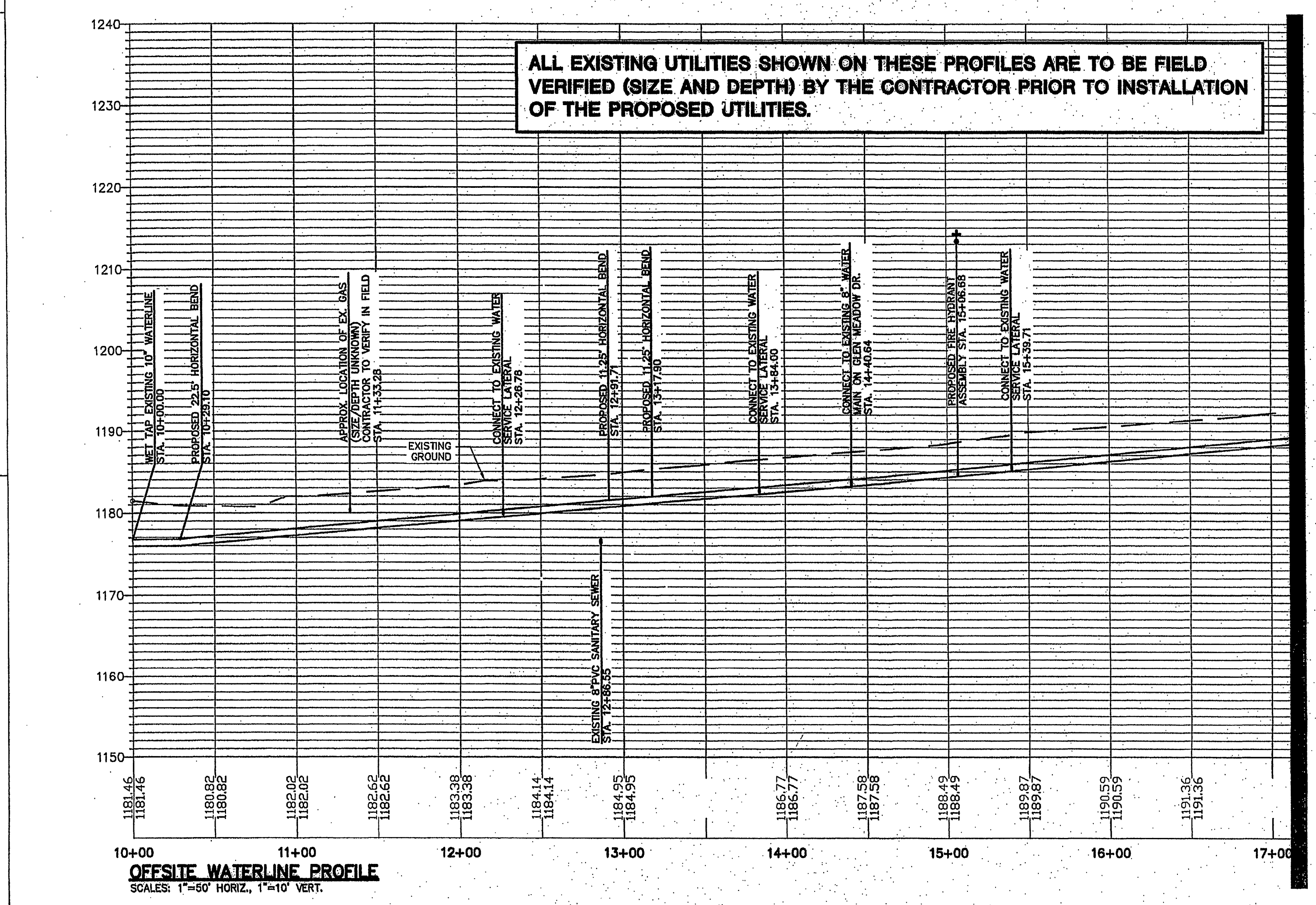
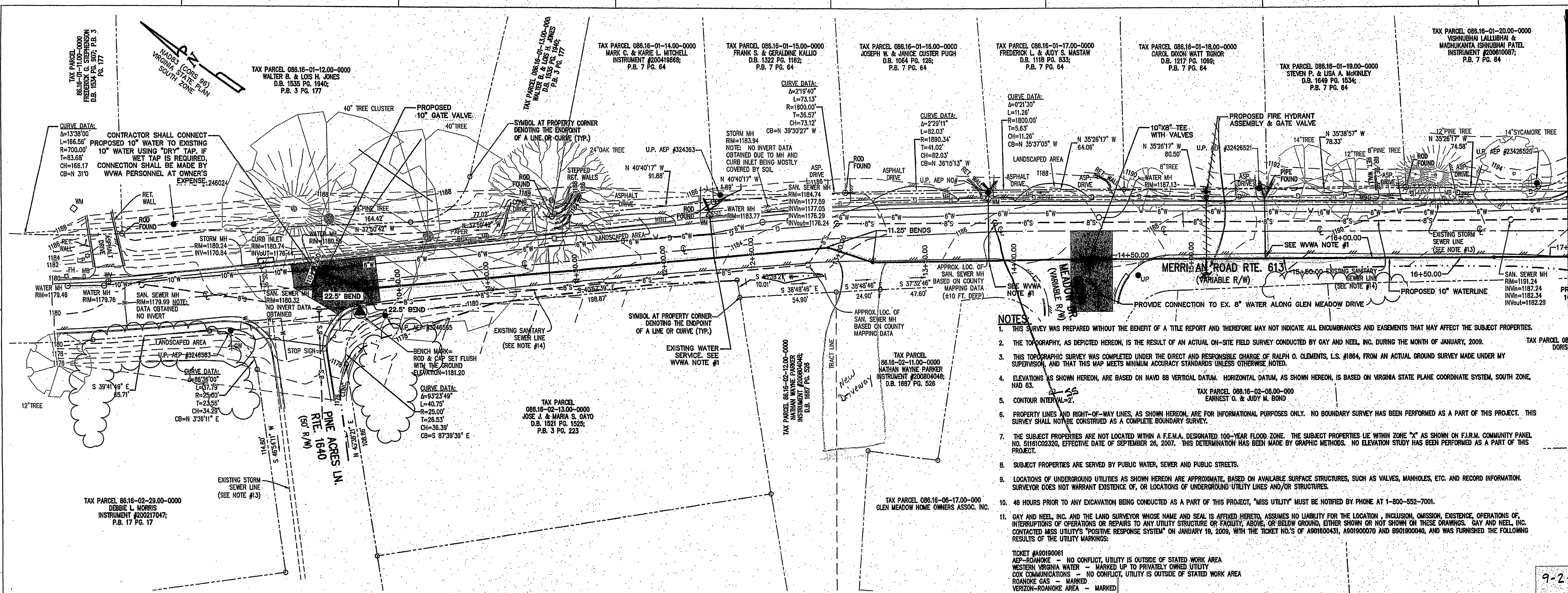
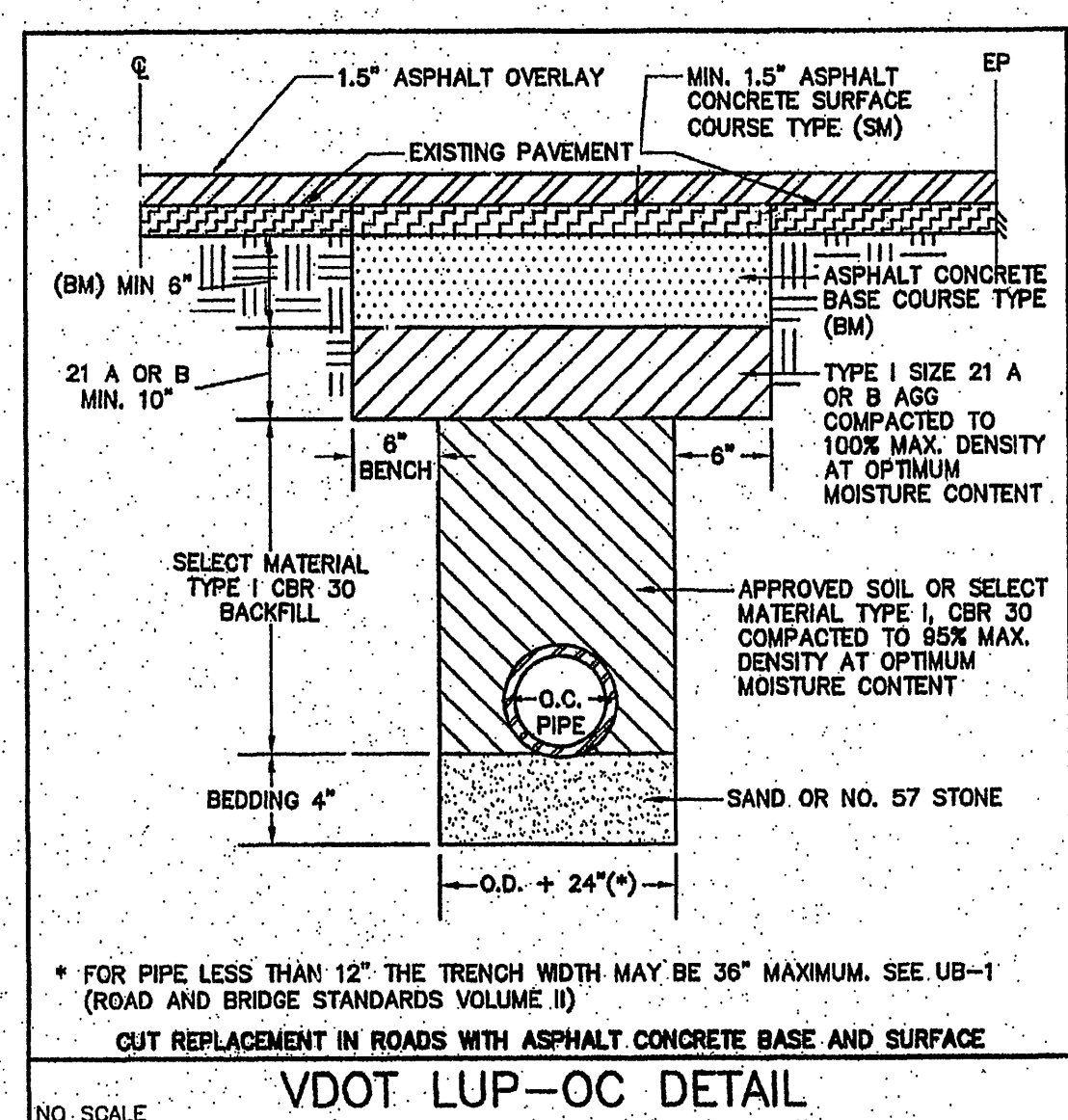




- NOTES:**
- THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND THEREFORE MAY NOT INDICATE ALL ENCUMBRANCES AND EASEMENTS THAT MAY AFFECT THE SUBJECT PROPERTIES.
 - THE TOPOGRAPHY, AS DEPICTED HEREON, IS THE RESULT OF AN ACTUAL ON-SITE FIELD SURVEY CONDUCTED BY GAY AND NEEL, INC. DURING THE MONTH OF JANUARY, 2009.
 - THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF RALPH O. CLEMENTS, L.S. #1864, FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION, AND THAT THIS MAP MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
 - ELEVATIONS AS SHOWN HEREON, ARE BASED ON NAVD 83 VERTICAL DATUM. HORIZONTAL DATUM, AS SHOWN HEREON, IS BASED ON VIRGINIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83.
 - CONTOUR INTERVAL: 2'
 - PROPERTY LINES AND RIGHT-OF-WAY LINES, AS SHOWN HEREON, ARE FOR INFORMATIONAL PURPOSES ONLY. NO BOUNDARY SURVEY HAS BEEN PERFORMED AS A PART OF THIS PROJECT. THIS SURVEY SHALL NOT BE CONSTRUED AS A COMPLETE BOUNDARY SURVEY.
 - THE SUBJECT PROPERTIES ARE NOT LOCATED WITHIN A FEMA, DESIGNATED 100-YEAR FLOOD ZONE. THE SUBJECT PROPERTIES ARE WITHIN ZONE "C" AS SHOWN ON F.I.R.M. COMMUNITY PANEL NO. 8161022320, EFFECTIVE DATE OF SEPTEMBER 28, 2007. THIS DETERMINATION HAS BEEN MADE BY GRAPHIC METHODS. NO ELEVATION STUDY HAS BEEN PERFORMED AS A PART OF THIS PROJECT.
 - SUBJECT PROPERTIES ARE SERVED BY PUBLIC WATER, SEWER AND PUBLIC STREETS.
 - LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE APPROXIMATE, BASED ON AVAILABLE SURFACE STRUCTURES, SUCH AS VALVES, MANHOLES, ETC. AND RECORD INFORMATION. SURVEYOR DOES NOT WARRANT EXISTENCE OF, OR LOCATIONS OF UNDERGROUND UTILITY LINES AND/OR STRUCTURES.
 - 48 HOURS PRIOR TO ANY EXCAVATION BEING CONDUCTED AS A PART OF THIS PROJECT, "MISS UTILITY" MUST BE NOTIFIED BY PHONE AT 1-800-552-7001.
 - GAY AND NEEL, INC. AND THE LAND SURVEYOR WHOSE NAME AND SEAL IS AFFIXED HERETO, ASSUMES NO LIABILITY FOR THE LOCATION, INCLUSION, OMISSION, EXISTENCE, OPERATIONS OF, INTERRUPTIONS OF OPERATIONS OR REPAIRS TO ANY UTILITY STRUCTURE OR FACILITY, ABOVE, OR BELOW GROUND, EITHER SHOWN OR NOT SHOWN ON THESE DRAWINGS. GAY AND NEEL, INC. CONTACTED MISS UTILITIES "POSITIVE RESPONSE SYSTEM" ON JANUARY 19, 2009, WITH THE TICKET NO.'S OF A901600431, A901600070 AND B901600040, AND WAS FURNISHED THE FOLLOWING RESULTS OF THE UTILITY MARKINGS:
 TICKET #A901600081
 ASP-ROANOKE - NO CONFLICT, UTILITY IS OUTSIDE OF STATED WORK AREA
 WESTERN VIRGINIA WATER - MARKED UP TO PRIVATELY OWNED UTILITY
 COX COMMUNICATIONS - NO CONFLICT, UTILITY IS OUTSIDE OF STATED WORK AREA
 ROANOKE GAS - MARKED
 VERIZON-ROANOKE AREA - MARKED
 TICKET #A901600450
 WESTERN VIRGINIA WATER - MARKED UP TO PRIVATELY OWNED UTILITY
 ASP-ROANOKE - NO CONFLICT, UTILITY IS OUTSIDE OF STATED WORK AREA
 COX COMMUNICATIONS - NO CONFLICT, UTILITY IS OUTSIDE OF STATED WORK AREA
 ROANOKE GAS - MARKED
 VERIZON-ROANOKE AREA - MARKED
 TICKET #B901600043
 WESTERN VIRGINIA WATER - MARKED UP TO PRIVATELY OWNED UTILITY; ABANDONED UTILITIES LINES MAY BE IN THE AREA
 ASP-ROANOKE - NO CONFLICT, UTILITY IS OUTSIDE OF STATED WORK AREA
 COX COMMUNICATIONS - NO CONFLICT, UTILITY IS OUTSIDE OF STATED WORK AREA
 ROANOKE GAS - MARKED
 VERIZON-ROANOKE AREA - MARKED
 - INVERT ELEVATIONS, AS SHOWN HEREON, ARE LISTED IN A CLOCKWISE DIRECTION FROM THE OUTLET PIPE.
 - EXISTING STORM SEWER PIPES AND STRUCTURES, UNLESS SPECIFICALLY LABELED HEREON, ARE BASED ON ROANOKE COUNTY UTILITY MAPPING AND HAVE NOT BEEN FIELD VERIFIED.
 - EXISTING SANITARY SEWER PIPES AND STRUCTURES, UNLESS SPECIFICALLY LABELED HEREON, ARE BASED ON ROANOKE COUNTY UTILITY MAPPING AND HAVE NOT BEEN FIELD VERIFIED.
 - EXISTING WATERLINE SIZES, AS SHOWN HEREON, ARE BASED ON ROANOKE COUNTY UTILITY MAPPING AND HAVE NOT BEEN FIELD VERIFIED. LOCATION OF CHANGES IN WATERLINE SIZE ARE SHOWN IN THEIR APPROXIMATE LOCATION.

- WATER LINE IN RIGHT OF WAY NOTES:**
- ALL WORK FOR INSTALLATION OF WATER LINE WITHIN THE RIGHT OF WAY SHALL BE PERFORMED IN CONFORMANCE WITH THE MOST CURRENT VDOT REGULATIONS, SPECIFICALLY WITH REGARD TO OPEN CUTS. WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE LAND USE PERMIT SPECIAL PROVISIONS FOR PAVEMENT OPEN CUTS (LUP-OC).
 - ALL WORK FOR INSTALLATION OF WATER LINE WITHIN THE CENTER OF A TRAVEL LANE SHALL HAVE THE PAVEMENT REPLACED IN ACCORDANCE WITH VDOT'S LUP-OC DETAIL SHOWN ON THIS PLAN SHEET, SPECIFICALLY THE ENTIRE TRAVEL LANE FROM THE EDGE OF PAVEMENT TO THE CENTERLINE OF THE ROADWAY SHALL BE OVERLAID UPON PATCHING THE INITIAL UTILITY TRENCH.
 - ALL WORK FOR INSTALLATION OF WATERLINE ALONG THE SHOULDER SHALL HAVE THE PAVEMENT REPLACED IN ACCORDANCE WITH THE STANDARD PAVEMENT CUT/REPLACEMENT DETAIL (SE-18) SHOWN ON SHEET 02-03.
 - WATER LINES RUNNING WITHIN THE PAVEMENT AND IN THE SAME DIRECTION AS THE ROADWAY TRAVEL LANES, AS WELL AS CONNECTIONS WITHIN THE PAVEMENT TO OTHER WATER LINES, MAY BE OPEN CUT; ALL OTHER WATER LINES RUNNING ACROSS THE TRAVEL LANES TO SERVE METERS, FIRE HYDRANTS, OR OTHER APPARATUS SHALL BE DIRECTIONALLY BORED/JACKED.
 - ALL OPEN CUTS SHALL BE BACKFILLED AND COMPACTED IN KEEPING WITH THE "DOT LUP-OC DETAIL" INCLUDED HEREON. UNLESS SPECIFICALLY DETAILED, ALL TRENCH PATCHING SHALL BE OVERLAID, AS SHOWN IN THE DETAIL, FROM THE ROADWAY CENTERLINE TO THE EDGE OF PAVEMENT. PLEASE SEE INTERSECTION PATCHING DETAILS FOR ADDITIONAL INFORMATION AT KEY OPEN CUTS AS TO HOW THE PATCHING SHALL BE OVERLAID.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION OF, COORDINATING APPROVAL OF, AND IMPLEMENTATION OF A DETAILED MAINTENANCE OF TRAFFIC PLAN ACCEPTABLE TO VDOT. MAINTENANCE OF TRAFFIC PLAN SHALL ALSO ADDRESS SEQUENCE OF CONSTRUCTION.
 - CONTRACTOR SHALL COORDINATE WITH VDOT REGARDING ANY WATER LINE WORK WITHIN THE RIGHT OF WAY SO AS TO ARRANGE A TIME THAT IS LEAST INTERRUPTIVE TO TRAFFIC PATTERNS, INCLUDING SCHEDULING THE MAJORITY OF SUCH WORK TO OCCUR IN THE SUMMER MONTHS.
 - ALL LATERAL LINES SERVICE METERS OR HYDRANTS ARE TO BE DIRECTIONAL BORED UNLESS OTHERWISE STATED ON THE PLANS.
 - CONTRACTOR SHALL OVERLAY PAVEMENT PATCHES AT KEY WATERLINE CONNECTION POINTS GENERALLY AS INDICATED BY THE SHADING ON THESE SHEETS. COORDINATE FINAL PLAN WITH VDOT.
- WVWA WATERLINE NOTES:**
- ALL EXISTING WATER SERVICES ARE TO BE CONNECTED TO THE NEW 10-INCH WATERLINE AND THE EXISTING WATER SERVICE IS TO BE REPLACED.
 - THE ABANDONMENT OF THE EXISTING 6-INCH WATERLINE, AND THE CONNECTION OF ANY EXISTING MAINS TO THE NEW 10-INCH WATERLINE, ARE TO BE COORDINATED WITH THE WVWA TO MINIMIZE SERVICE DISRUPTION.



GAY AND NEEL, INC.
 CIVIL ENGINEERING
 LAND PLANNING
 SURVEYING
 328 Mountain Avenue S.W.
 Roanoke, Virginia 24016
 Phone: (540) 981-1111 Fax: (540) 345-5560
 Email: info@gayandneel.com

MATCHLINE - SHEET C4-04

9-2-10
 spoke w/ Terry St. Clair
 & Lannie & approved
 the relocation of FH
 to same side of Rd.
 as New W.L. Lannie
 to approved proposed
 changes.

DATE	PROJECT	DESIGNED	DRAWN	CHECKED	REVISIONS
MAY 31, 2009	081624	MPT	MPT		
07/10/2009					Final Review
07/28/2009					VDOT & WVWA Review

RRMM ARCHITECTS, PC
 28 West Church Ave
 Roanoke, VA 24011
 (540) 344-1212 / fax (540) 344-1321

TREVOIR M. KIMZEY
 Lic. No. 036345
 07/18/09
 PROFESSIONAL ENGINEER

PROJECT CAVE SPRING ELEMENTARY SCHOOL 2009 RENOVATIONS & ADDITIONS
 ROANOKE COUNTY PUBLIC SCHOOLS
 540 S. MAIN AVE
 ROANOKE, VA
 DRAWING OFF-SITE WATERLINE IMPROVEMENTS - STA. 10+00 TO STA. 17+00

GNI JN 2052.0
 SHEET
 C4-03

AS-BUILT