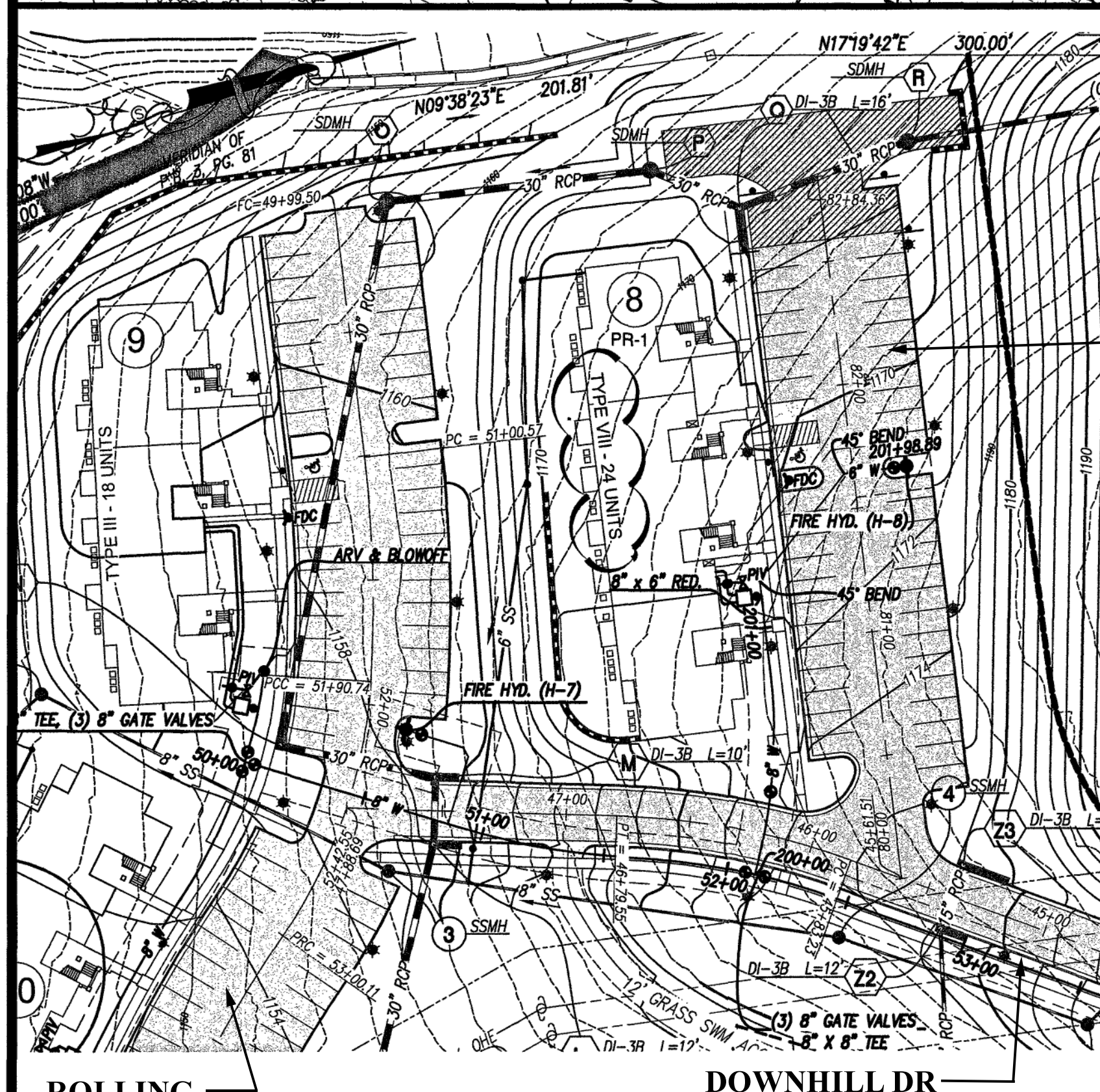
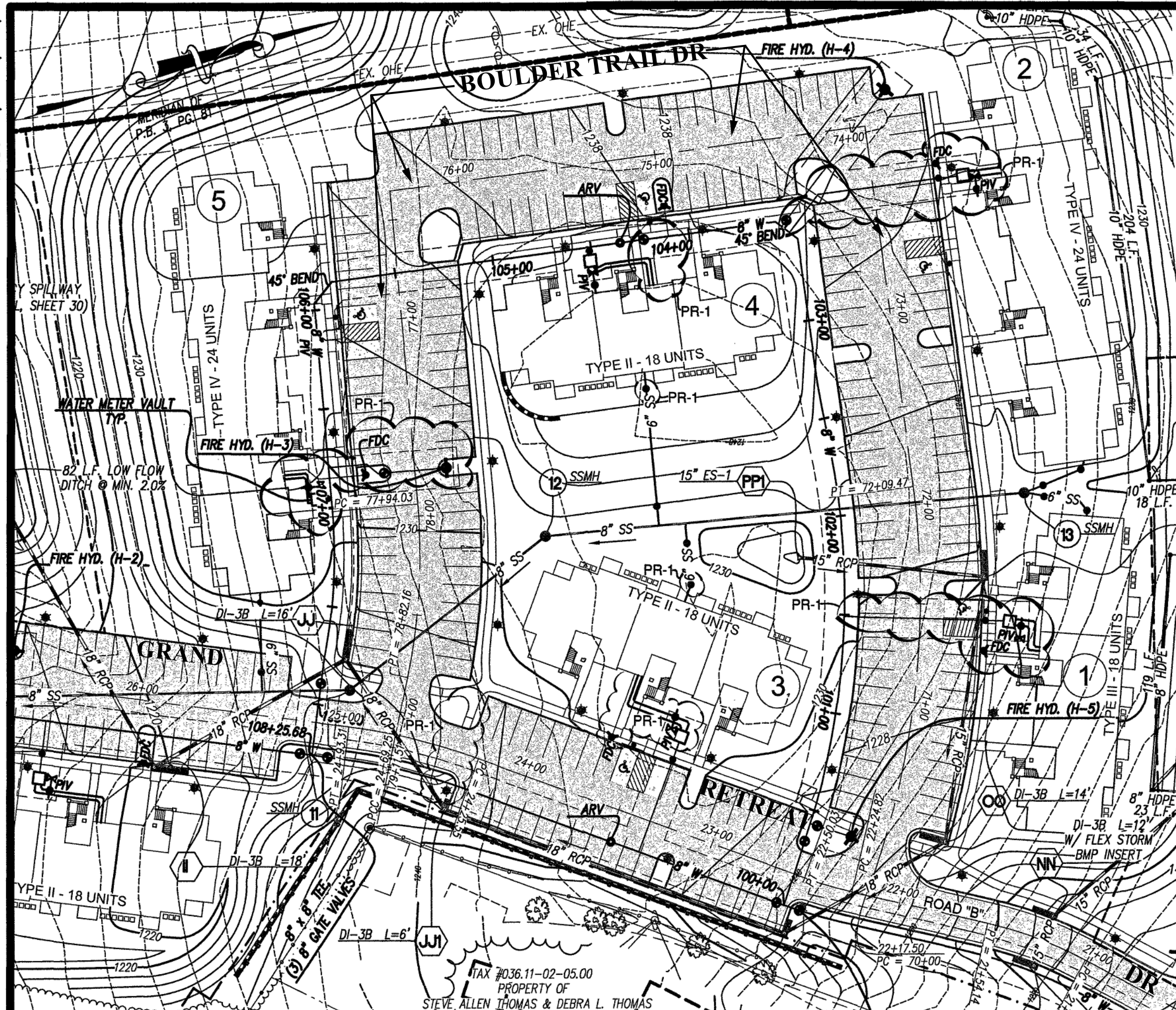
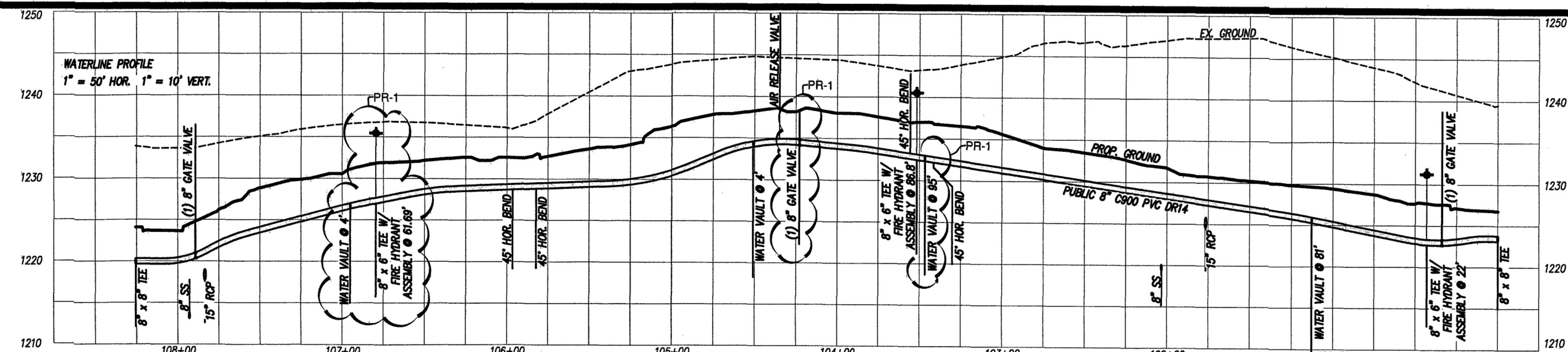
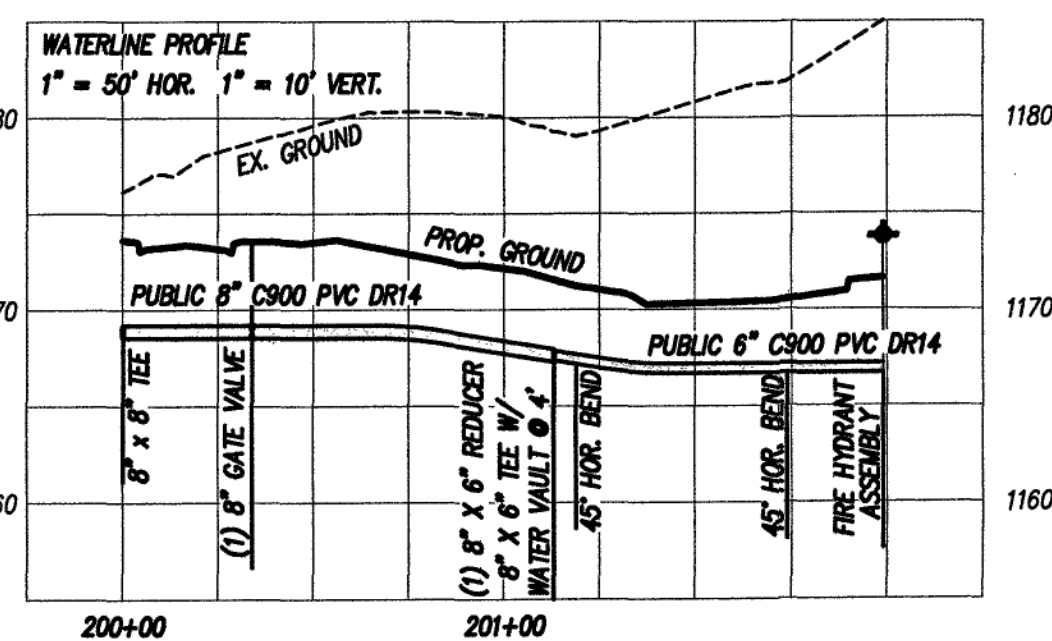
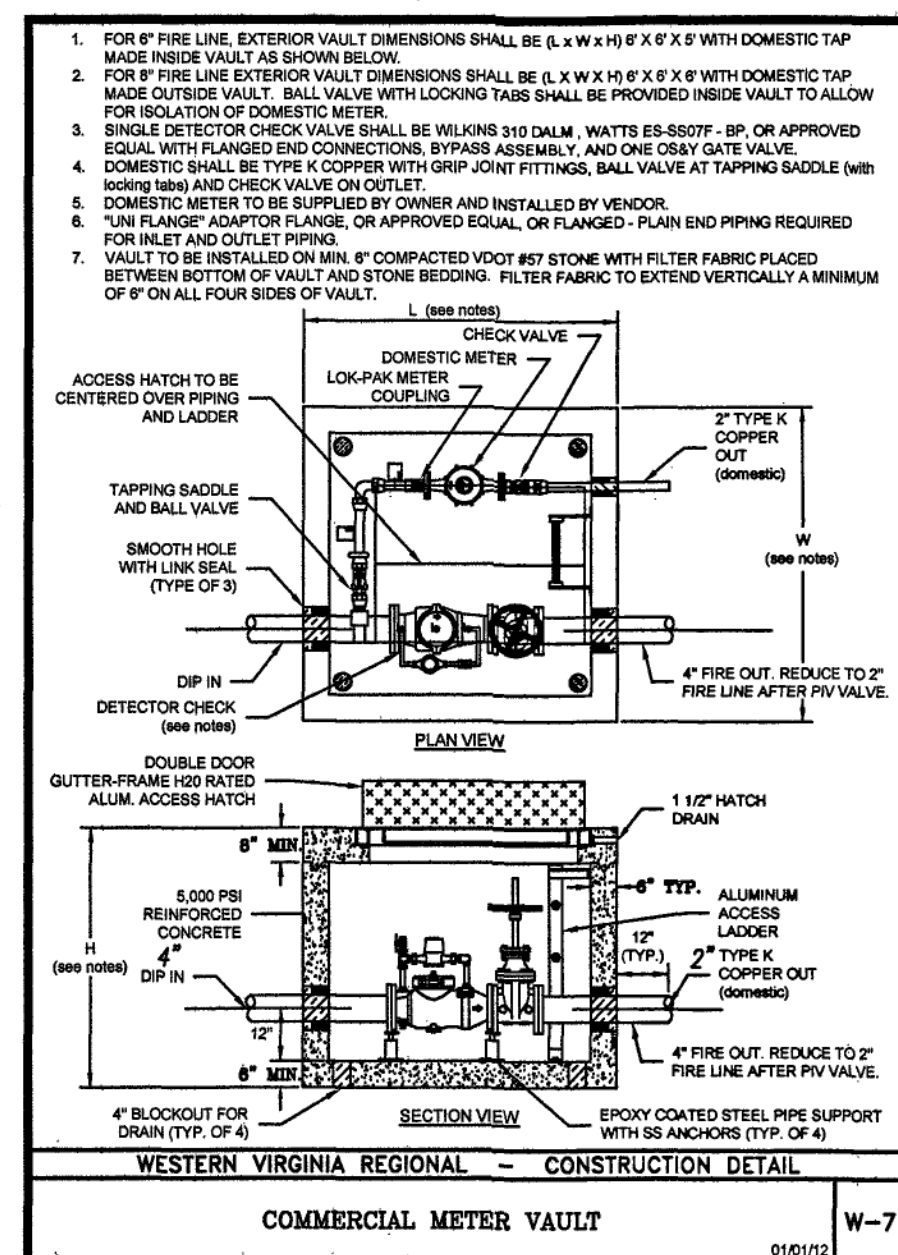




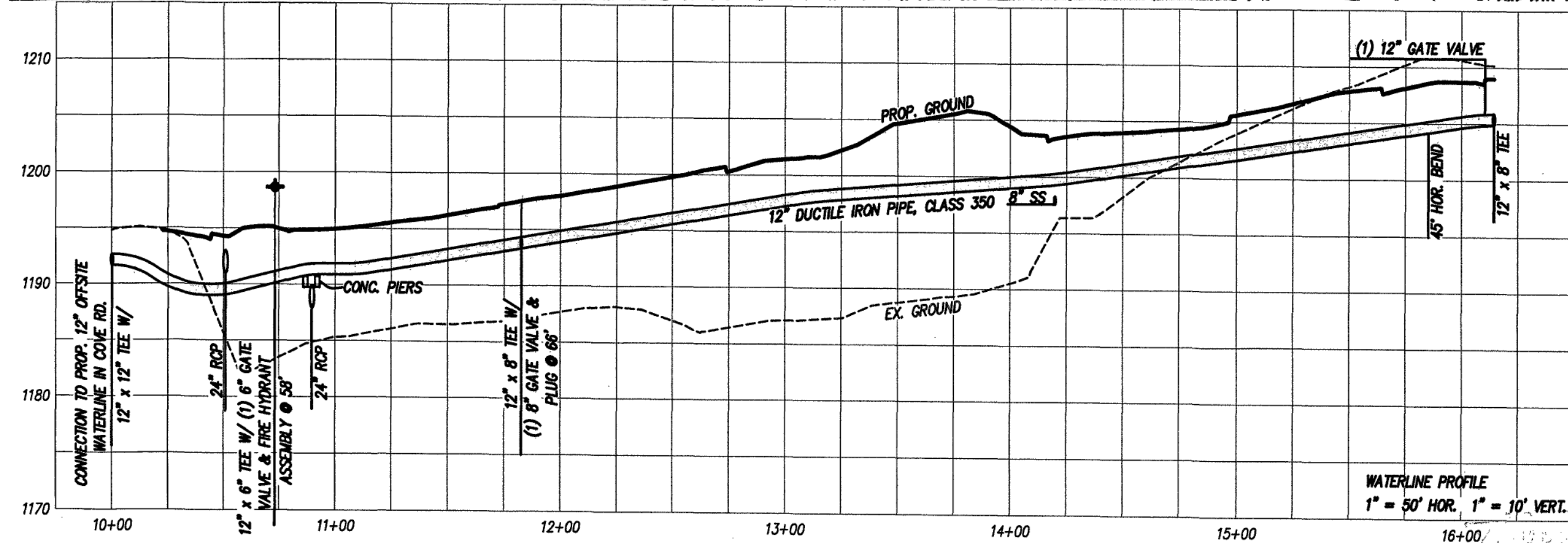
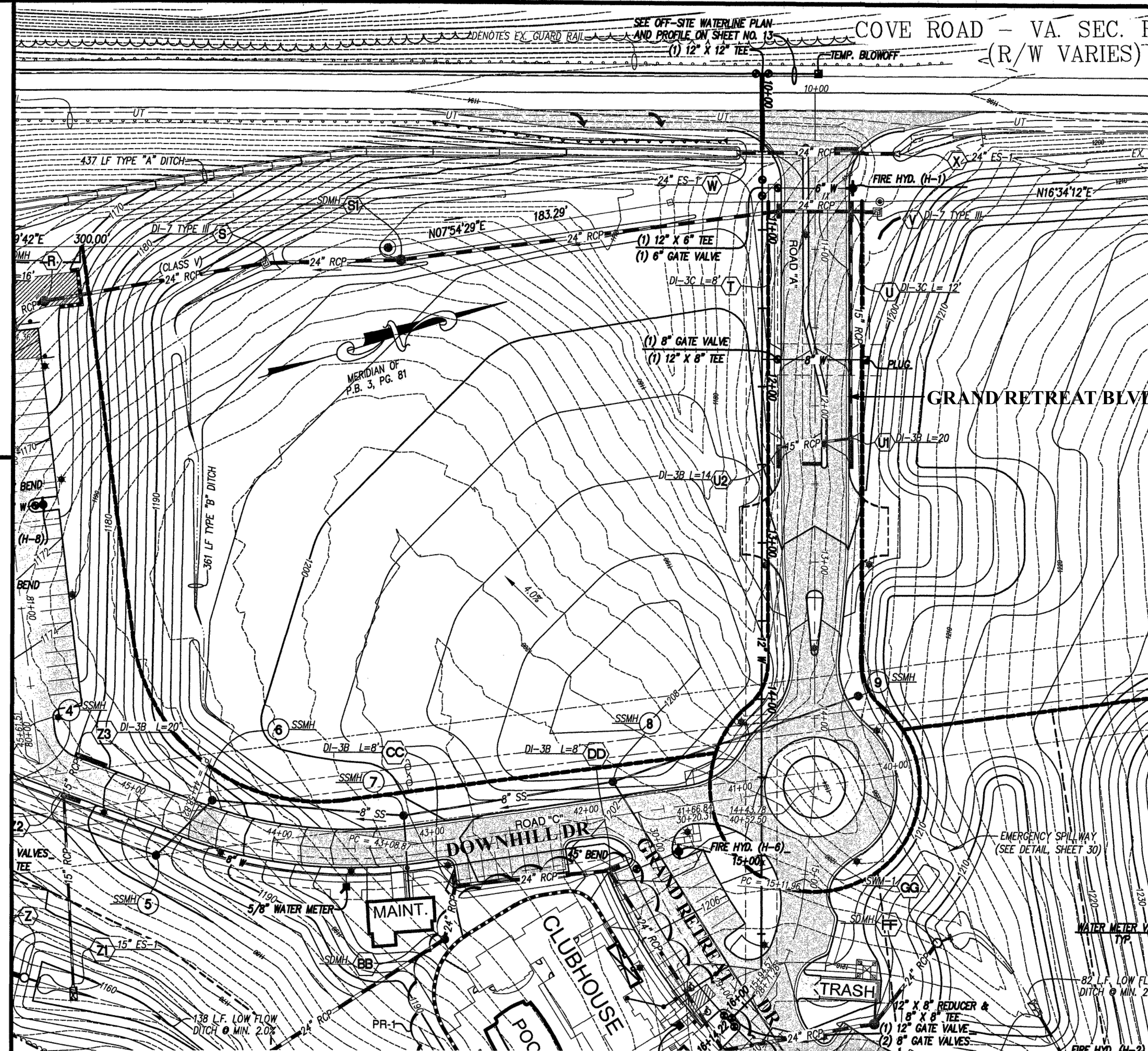
ROLLING BROOK RD  
DOWNHILL DR



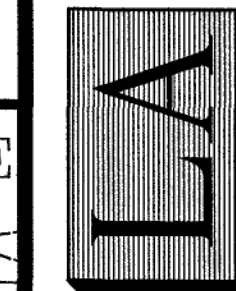
- NOTES:
1. ALL WATER AND SANITARY SEWER LINES SHALL HAVE A MINIMUM OF 3.0 FEET OF COVER.
  2. MAINTAIN A MINIMUM OF 18" CLEARANCE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE AT ALL WATER, SANITARY SEWER, AND STORM DRAIN CROSSINGS. WHERE THIS CLEARANCE CAN NOT BE ACHIEVED, CONCRETE PIERS SHALL BE UTILIZED IN ACCORDANCE WITH THE WESTERN VIRGINIA WATER AUTHORITY'S WATER AND SANITARY SEWER STANDARDS.
  3. SANITARY SEWER MAIN PIPE MATERIAL SHALL BE PVC, SDR-35, EXCEPT AS NOTED, OR APPROVED EQUAL.
  4. NEW OFF-SITE WATERLINE MAIN PIPE MATERIAL SHALL BE DUCTILE IRON PIPE, CLASS 350 UNLESS OTHERWISE INDICATED, OR APPROVED EQUAL.
  5. NEW ON-SITE WATERLINE MAIN PIPE MATERIAL SHALL BE C900 PVC DR14, UNLESS OTHERWISE INDICATED, OR APPROVED EQUAL.
  6. ALL NEW DROP INLETS AND STORM DRAIN MANHOLES SHALL HAVE VDOT STD. IS-1, INLET SHAPING.
  7. ALL DRAINAGE STRUCTURES DEEPER THAN 4.0 FEET SHALL HAVE STEPS (VDOT STD. ST-1) INSTALLED.
  8. SAFETY SLABS (VDOT STD. SL-1) ARE REQUIRED IN ALL DRAINAGE STRUCTURES WITH A DEPTH OF 12.0 FEET OR GREATER. THE SPACING OF THE SLABS SHOULD BE 8 TO 12 FEET WITH NO SAFETY SLAB LOCATED WITHIN 8 FEET FROM THE TOP OR BOTTOM OF THE STRUCTURE.



**WATER VAULT NOTE:**  
WATER VAULT TO BE PROVIDED BY CLEARFLOW. SIZE OF WATER VAULT SHALL BE IN ACCORDANCE WITH THE STANDARD WYMA DETAIL W-7 AND SUITABLE FOR A 4" SERVICE LINE, 2" FIRE LINE, & 2" DOMESTIC SERVICE LINE AND WATER METER AS SHOWN ON SHEET 5. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR ORDERING, PAYMENT, COORDINATION OF DELIVERY, UNLOADING OF VAULT ON-SITE, VAULT INSTALLATION, AND INSTALLATION OF WATER SERVICE BETWEEN THE WYMA MAIN AND VAULT. CONTACT CLEARFLOW AT 540-943-3300. PRIOR TO CONSTRUCTION CALL THE WYMA INSPECTOR AT 540-537-3460.



**LUMSDEN ASSOCIATES, P.C.**  
ENGINEERS-SURVEYORS-PLANNERS  
ROANOKE, VIRGINIA



COMMONWEALTH OF VIRGINIA  
THOMAS C. DALE  
Lic. No. 033002  
8/24/15  
PROFESSIONAL ENGINEER

ONSITE WATERLINE  
PROFILES

**DEVELOPMENT PLAN FOR  
THE RETREAT**  
PREPARED FOR  
EDWARD ROSE DEVELOPMENT COMPANY, LLC  
CATAWBA MAGISTERIAL DISTRICT  
ROANOKE COUNTY, VIRGINIA

| NO. | DATE    | REVISIONS | DESCRIPTION                             |
|-----|---------|-----------|-----------------------------------------|
|     |         |           |                                         |
| 1   | 8/24/15 | 1         | SEE FIELD REVISION TABLE ON SHEET No. 2 |
| 2   |         | 2         |                                         |
| 3   |         | 3         |                                         |
| 4   |         | 4         |                                         |
| 5   |         | 5         |                                         |

DATE: October 10, 2013  
SCALE: AS SHOWN  
COMMISSION NO.: 07-130  
SHEET 17 OF 38