

1. CONTRACTOR TO CONFIRM LOCATION & INVERT OF EXISTING UTILITY LINES AND NEW SERVICE LINE PRIOR TO INSTALLATION ON ANY NEW UTILITY LINES. REFER TO BUILDING PLANS FOR EXACT LOCATION AND INVERT OF SERVICE LINES/LATERALS EXITING THE BUILDING. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER IMMEDIATELY UPON DISCOVERY OF DISCREPANCIES OR CONFLICTS.
2. CONTRACTOR TO CONTACT THE WESTERN VIRGINIA WATER AUTHORITY (WVWA) PRIOR TO EXTENDING WATER & SEWER SERVICE LINES TO COORDINATE THE CONNECTION TO THE EXISTING WATER AND SEWER MAINS AND TO ARRANGE FOR ALL REQUIRED PRE-CONSTRUCTION CONFERENCES AND INSPECTIONS.
3. CLEAN-OUTS IN PAVEMENT OR SIDEWALK SHALL BE SET IN 6" DIAMETER CAST IRON VALVE BOX OR APPROVED CLEAN-OUT BOX WITH TOP SET FLUSH WITH FINISHED PAVED GRADE.
4. GAS SERVICE LINE AND GAS METER IS SHOWN FOR GENERAL INFORMATION ONLY. EXACT LOCATION OF GAS SERVICE LINE AND METER SHALL BE DETERMINED BY ROANOKE GAS COMPANY.
5. UNLESS OTHERWISE NOTED, SANITARY SEWER LATERALS SHALL BE INSTALLED AT 1/4"/1" SLOPE (MIN.) FROM POINT OF CONNECTION TO BUILDING. CONTRACTOR TO CONFIRM INVERT OF EXISTING MAIN OR LATERAL PRIOR TO INSTALLATION OF LATERAL. REFER TO INTERNATIONAL PLUMBING CODE (IPC) FOR OTHER REQUIREMENTS.
6. WHERE APPLICABLE ALL WATER AND SEWER WORK (BOTH PUBLIC AND PRIVATE) SHALL CONFORM TO THE WESTERN VIRGINIA WATER AUTHORITY STANDARDS, LATEST EDITION. SEWER LATERALS AND DOMESTIC WATER SERVICE LINES SHALL CONFORM TO INTERNATIONAL PLUMBING CODE, LATEST ADOPTED EDITION.
7. WHERE APPLICABLE AND WHERE SHOWN, THE AREA OF OPEN CUT SHOWN IS MINIMUM REQUIRED TO INSTALL UTILITY LINES. CONTRACTOR SHALL BE REQUIRED TO REPLACE, IN ACCORDANCE WITH APPLICABLE DETAILS, ANY PAVEMENT DAMAGED OR REMOVED BY UTILITY INSTALLATION.
8. CONTRACTOR SHALL ENSURE THAT EXISTING WATER AND SEWER SERVICES LINES WHICH RUN THROUGH OR ADJOIN THE SITE REMAIN IN SERVICE AT ALL TIMES UNLESS A SHUTDOWN IS APPROVED BY THE WESTERN VIRGINIA WATER AUTHORITY.
9. IN ACCORDANCE WITH INTERNATIONAL FIRE CODE (IFC) SECTION 1412.1, ALL WATER MAINS AND FIRE HYDRANTS SERVING THE PROJECT SITE SHALL BE INSTALLED AND OPERABLE PRIOR TO COMBUSTIBLE MATERIALS ARRIVING ON THE SITE.

- 1 POINT OF CONNECTION TO EXISTING 8" WATERLINE (SUBMIT SEE ROANOKE COUNTY PLAN NO. SP-1200828 FOR ADDITIONAL INFORMATION). CONTRACTOR SHALL CONTACT WYWA - UTILITY SERVICES AT 540-853-2596 AT LEAST 72 HOURS IN ADVANCE OF PERFORMING WORK.
- 2 NEW WATER MAIN, SIZE AS INDICATED. APPURTENANCES (VALVE, BENDS, TEES, ETC) ARE AS INDICATED HEREON.
- 3 NEW FIRE HYDRANT ASSEMBLY. SITE UTILITY CONTRACTOR IS RESPONSIBLE FOR COORDINATING BURY DEPTH TO ENSURE NO CONFLICTS OCCUR WITH OTHER UTILITIES. SEE WYWA DETAIL W-17 ON SHEET C-7 FOR ADDITIONAL INFORMATION. AVAILABLE FIRE FLOW IS SHOWN ON PLAN. IN ACCORDANCE WITH ROANOKE COUNTY CODE SECTION 9-2(15)3 & 4, NO PLANTING, ERECTION OR OTHER OBSTRUCTION SHALL BE ALLOWED WITHIN FOUR FEET OF THE FIRE HYDRANT. ALL HYDRANTS SHALL BE PAINTED IN ACCORDANCE WITH STANDARDS ESTABLISHED BY THE FIRE MARSHAL.
- 4 NEW COMMERCIAL WATER METER / FIRE SERVICE VAULT (6'x 6') IN ACCORDANCE WITH WESTERN VIRGINIA WATER AUTHORITY DETAIL W-7 SHOWN ON SHEET C-7. FIRE SERVICE LINE SHALL BE 8-INCHES, DOMESTIC SERVICE LINE SHALL BE 3-INCHES, AND METER SHALL BE 2-INCHES. VAULT TO BE PROVIDED AND INSTALLED BY SITE UTILITY CONTRACTOR. DOMESTIC AND FIRE SERVICE LINES TO BE INSTALLED BY SITE UTILITY CONTRACTOR TO WITHIN 5- FEET OF BUILDING. CONNECTIONS TO SITE LINE AND ANY REDUCERS/FITTING REQUIRED TO MAKE CONNECTION SHALL BE BY BUILDING / PLUMBING CONTRACTOR.
- 5 FREE-STANDING FIRE DEPARTMENT CONNECTION (FDC) WITH LOCKABLE CAPS (KNOX) IN ACCORDANCE WITH ROANOKE COUNTY FIRE MARSHAL REQUIREMENTS. REFER TO FIRE PROTECTION PLANS FOR ADDITIONAL INFORMATION.
- 6 KEY BOX (KNOX) LOCATION - WALL MOUNTED NEXT TO MAIN ENTRANCE DOOR IN ACCORDANCE WITH ROANOKE COUNTY FIRE MARSHAL REQUIREMENTS. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
- 7 SANITARY SEWER LATERAL (SIZE INDICATED) WITH CLEAN-OUTS PLACED AS SHOWN. PIPE MATERIAL SHALL CONFORM TO INTERNATIONAL PLUMBING CODE (IPC) REQUIREMENTS FOR UNDERGROUND BUILDING DRAINAGE AND VENT PIPE.
- 8 SANITARY SEWER SAMPLING STRUCTURE (4-FOOT STANDARD PRE-CAST MANHOLE). SEE DETAIL S-1 ON SHEET C-7.
- 9 GREASE TRAP. REFER TO BUILDING MECHANICAL/PLUMBING PLANS FOR ADDITIONAL INFORMATION. A "GREASE INTERCEPTOR SUBMITTAL" SHALL BE COMPLETED AND SUBMITTED TO WYWA FOR APPROVAL PRIOR TO INSTALLATION OF THE GREASE TRAP. CONNECTION TO THE PUBLIC SEWER SYSTEM SHALL NOT BE PERMITTED UNTIL THIS DATA IS PROVIDED TO AND APPROVED BY WYWA.
- 10 STORM DRAIN LINES AND STRUCTURES SHOWN HEREON FOR UTILITY COORDINATION INFORMATION ONLY. REFER TO SHEET C-8 FOR DETAILED STORM DRAINAGE AND GRADING PLAN AND ADDITIONAL INFORMATION.
- 11 GAS METER AND SERVICE LINE BY ROANOKE GAS COMPANY. COORDINATE LOCATION OF METER AND INCOMING LINE WITH GAS COMPANY AND BUILDING PLANS.
- 12 APPROXIMATE LOCATION OF TRANSFORMER PAD. EXACT LOCATION TO BE DETERMINED BY POWER COMPANY. REFER TO BUILDING PLANS FOR LOCATION OF ELECTRIC SERVICES LINES ENTERING BUILDING. SITE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING TRANSFORMER PAD IN ACCORDANCE WITH APPALACHIAN POWER COMPANY STANDARD DETAILS AND SECTIONS.
- 13 TWO (2) - 5" SCH. 40 PVC ELECTRICAL CONDUITS FROM BUILDING TO ELECTRICAL TRANSFORMER. SITE UTILITY CONTRACTOR SHALL COORDINATE WITH POWER COMPANY PRIOR TO PLACEMENT OF CONDUIT.
- 14 TWO (2) - 4" SCH. 40 PVC TELEPHONE CONDUITS FROM BUILDING TO RIGHT-OF-WAY. COORDINATE WITH VERIZON PRIOR TO PLACEMENT OF CONDUITS.

FD-1. USE GROUP: R-1 RESIDENTIAL OCCUPANCY

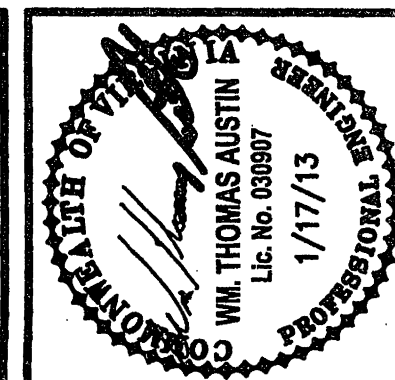
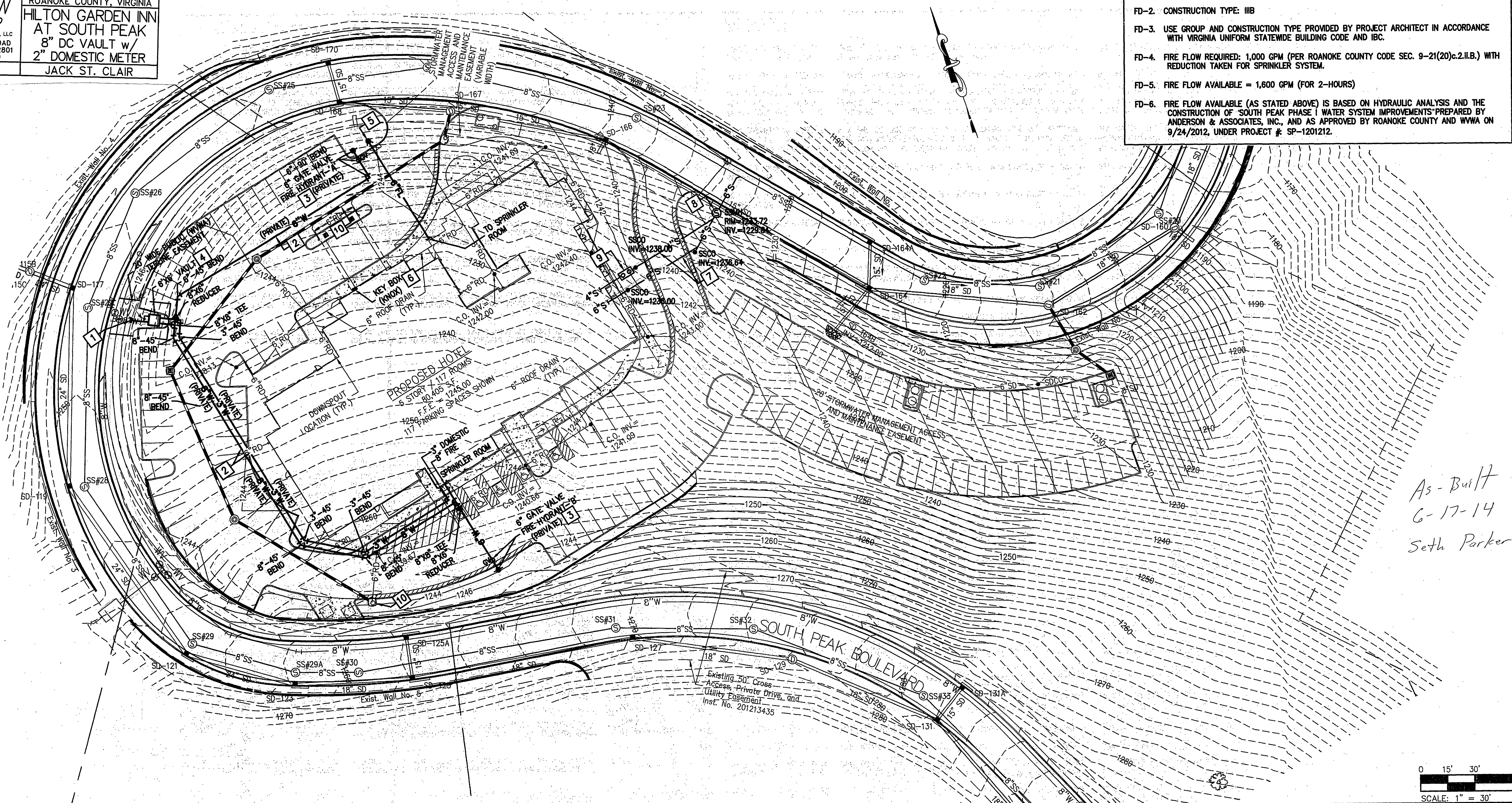
FD-2. CONSTRUCTION TYPE: IIIB

FD-3. USE GROUP AND CONSTRUCTION TYPE PROVIDED BY PROJECT ARCHITECT IN ACCORDANCE WITH VIRGINIA UNIVERSAL STATEWIDE BUILDING CODE AND IBC.

FD-4. FIRE FLOW REQUIRED: 1,000 GPM (PER ROANOKE COUNTY CODE SEC. 9-21(20)c.2.I.B.) WITH REDUCTION TAKEN FOR SPRINKLER SYSTEM.

FD-5. FIRE FLOW AVAILABLE = 1,600 GPM (FOR 2-HOURS)

FD-6. FIRE FLOW AVAILABLE (AS STATED ABOVE) IS BASED ON HYDRAULIC ANALYSIS AND THE CONSTRUCTION OF "SOUTH PEAK PHASE I WATER SYSTEM IMPROVEMENTS" PREPARED BY ANDERSON & ASSOCIATES, INC., AND AS APPROVED BY ROANOKE COUNTY AND WYWA ON 9/24/2012, UNDER PROJECT #: SP-1201212.

[illegible]

Issue Date: **JAN. 17, 2013**  
 Drawn By: RWA  
 Designed By: WTA/RWA  
 Checked By: WTA  
 Date: 1/17/13

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 SMITH/PACKETT MED-COM, LLC  
 UTILITY PLAN - WATER & SEWER  
 ROANOKE COUNTY VIRGINIA

Vertical Scale:

Horizontal Scale:

Commission Number:  
3101-H

Sheet No.:

C-5