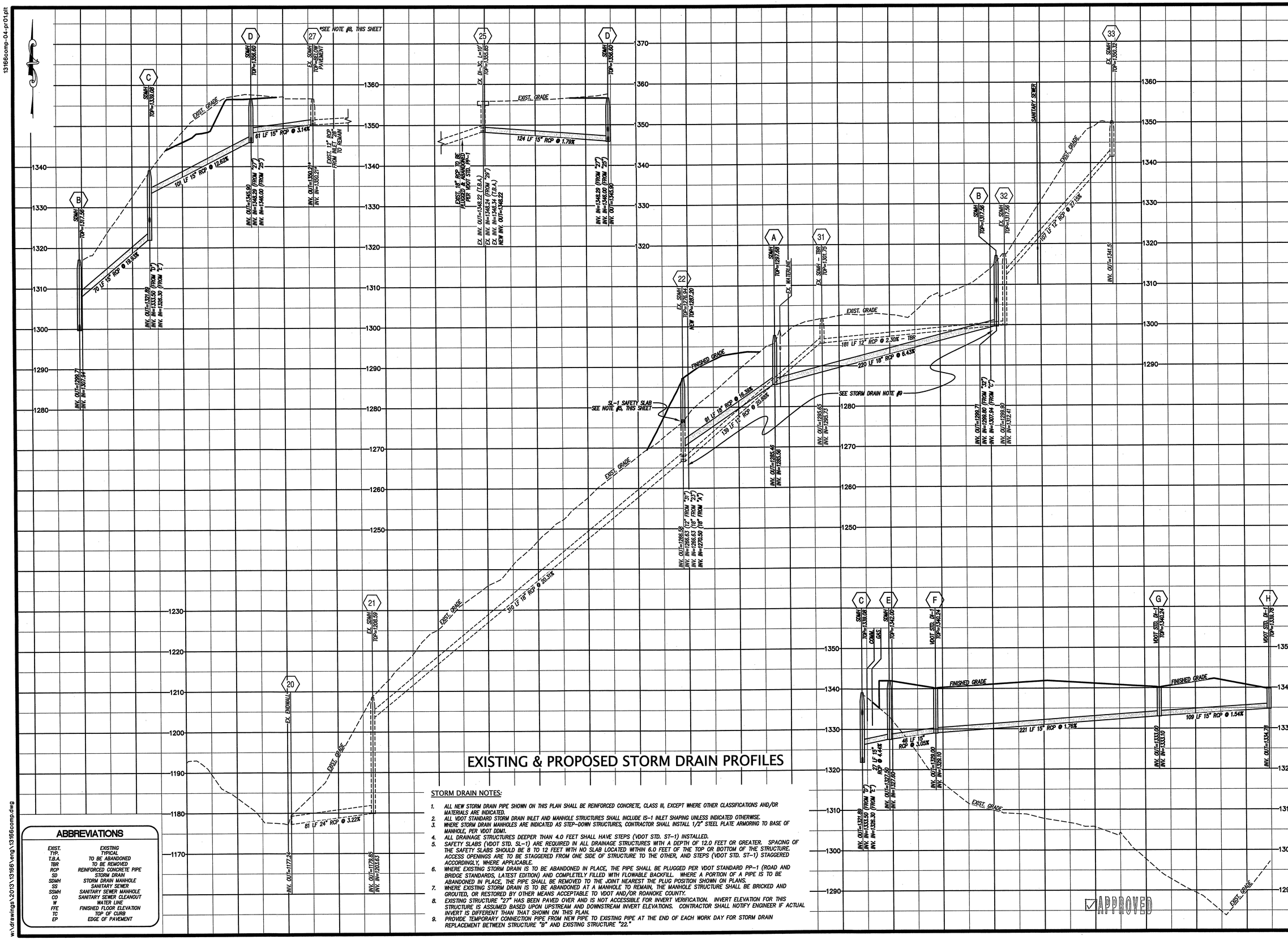

ABBREVIATIONS

EXIST.	EXISTING
TYP.	TYPICAL
T.B.A.	TO BE ABANDONED
TBR	TO BE REMOVED
RCP	REINFORCED CONCRETE PIPE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
CO	SANITARY SEWER CLEANOUT
W	WATER LINE
FFE	FINISHED FLOOR ELEVATION
TC	TOP OF CURB
EP	EDGE OF PAVEMENT

STORM DRAIN NOTES:

1. ALL NEW STORM DRAIN PIPE SHOWN ON THIS PLAN SHALL BE REINFORCED CONCRETE, CLASS III, EXCEPT WHERE OTHER CLASSIFICATIONS AND/OR MATERIALS ARE INDICATED.
2. ALL VDOT STANDARD STORM DRAIN INLET AND MANHOLE STRUCTURES SHALL INCLUDE IS-1 INLET SHAPING UNLESS INDICATED OTHERWISE.
3. WHERE STORM DRAIN MANHOLES ARE INDICATED AS STEP-DOWN STRUCTURES, CONTRACTOR SHALL INSTALL 1/2" STEEL PLATE ARMORING TO BASE OF MANHOLE, PER VDOT DDM1.
4. ALL DRAINAGE STRUCTURES DEEPER THAN 4.0 FEET SHALL HAVE STEPS (VDOT STD. ST-1) INSTALLED.
5. SAFETY SLABS (VDOT STD. SL-1) ARE REQUIRED IN ALL DRAINAGE STRUCTURES WITH A DEPTH OF 12.0 FEET OR GREATER. SPACING OF THE SAFETY SLABS SHOULD BE 8 TO 12 FEET WITH NO SLAB LOCATED WITHIN 6.0 FEET OF THE TOP OR BOTTOM OF THE STRUCTURE. ACCESS OPENINGS ARE TO BE STAGGERED FROM ONE SIDE OF STRUCTURE TO THE OTHER, AND STEPS (VDOT STD. ST-1) STAGGERED ACCORDINGLY, WHERE APPLICABLE.
6. WHERE EXISTING STORM DRAIN IS TO BE ABANDONED IN PLACE, THE PIPE SHALL BE PLUGGED PER VDOT STANDARD PP-1 (ROAD AND BRIDGE STANDARDS, LATEST EDITION) AND COMPLETELY FILLED WITH FLOWABLE BACKFILL. WHERE A PORTION OF A PIPE IS TO BE ABANDONED IN PLACE, THE PIPE SHALL BE REMOVED TO THE JOINT NEAREST THE PLUG POSITION SHOWN ON PLANS.
7. WHERE EXISTING STORM DRAIN IS TO BE ABANDONED AT A MANHOLE TO REMAIN, THE MANHOLE STRUCTURE SHALL BE BRICKED AND GROUTED, OR RESTORED BY OTHER MEANS ACCEPTABLE TO VDOT AND/OR ROANOKE COUNTY.
8. EXISTING STRUCTURE "27" HAS BEEN PAVED OVER AND IS NOT ACCESSIBLE FOR INVERT VERIFICATION. INVERT ELEVATION FOR THIS STRUCTURE IS ASSUMED BASED UPON UPSTREAM AND DOWNSTREAM INVERT ELEVATIONS. CONTRACTOR SHALL NOTIFY ENGINEER IF ACTUAL INVERT IS DIFFERENT THAN THAT SHOWN ON THIS PLAN.
9. PROVIDE TEMPORARY CONNECTION PIPE FROM NEW PIPE TO EXISTING PIPE AT THE END OF EACH WORK DAY FOR STORM DRAIN REPLACEMENT BETWEEN STRUCTURE "B" AND EXISTING STRUCTURE "22."

APPROVED

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5/8/14
LANDSCAPE ARCHITECT

STORM DRAIN PROFILES

GRADING & UTILITY RELOCATION PLAN
FOR
SOUTH PEAK CONDOMINIUM
PREPARED FOR
SMITH/PACKETT
CAVE SPRING MAGISTERIAL DISTRICT
COUNTY OF ROANOKE, VIRGINIA

REVISIONS		
NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

DATE: May 8, 2014
SCALE: 1" = 40'(H), 1" = 10'(V)
COMMISSION NO: 13-166

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