

THE SITE UTILITY PLAN: WATER PLAN IS FOR WATER LINE CONSTRUCTION ONLY. DO NOT USE FOR GRADING, STORM, OR SEWER CONSTRUCTION.

ALL PIPE LENGTHS ARE HORIZONTAL DISTANCES AND ARE

ALL DOMESTIC WATER STUBS TO BE TERMINATED 5 FEET OUTSIDE OF THE BUILDING UNLESS OTHERWISE NOTED THE END OF THESE SERVICE LINES SHALL BE TIGHTLY PLUGGED OR CAPPED AND MARKED UNTIL SUCH TIME AS CONNECTION IS MADE INSIDE BUILDING BY PLUMBING CONTRACTOR.

SITE UTILITY CONTRACTOR SHALL PROVIDE ALL THE MATERIALS AND APPURTENANCES NECESSARY FOR THE COMPLETE INSTALLATION OF THE UTILITIES. ALL PIPE AND FITTINGS SHALL BE INSPECTED BY THE UTILITY COMPANY INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST ALSO BE PRESENT DURING PRESSURE TESTING AND DISINFECTION OF LATERALS AND HIS SIGNATURE OF APPROVAL IS REQUIRED. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS, AND/OR LOCAL STANDARDS IMPOSED BY LOCAL UTILITY, AND THE CITY

THE SITE UTILITY CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL UTILITY AUTHORITIES FOR CONNECTION TO THE EXISTING MAINS

ALL WATER LINES SHALL HAVE A MINIMUM COVER OF 36" ABOVE TOP OF MSTSD. INC.

CONTRACTOR SHALL ADJUST LOCATION OF PROPOSED WATER LINES AS REQUIRED TO AVOID CONFLICTS WITH STORM, SEWER, OR OTHER UTILITIES AT NO EXTRA COST. WATER LINES SHALL CROSS ABOVE SEWER LINES WITH 18" MINIMUM CLEARANCE AND A MINIMUM OF 12" VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN WATER LINES AND OTHER UTILITIES. SEE SHEET D-1 FOR ABANDONED UTILITIES INFORMATION. CONNECTIONS TO EXISTING WATER LINE SHALL BE PERFORMED BY THE WESTERN VIRGINIA WATER AUTHORITY. THE SITE UTILITY CONTRACTOR SHALL VERIFY REQUIREMENTS AND PAY ALL COSTS.

10. THE SITE UTILITY CONTRACTOR SHALL COOPERATE AND WORK WITH ALI

ALL MATERIALS SHALL BE U.L. LISTED AND FACTORY MUTUAL APPROVED UNLESS DIRECTED OTHERWISE BY THE ENGINEER. ALL LINES WITHIN TH R.O.W. ARE TO BE ACCEPTED BY THE CITY AND SHALL MEET THE CITY'S

THE EXISTING UTILITY FACILITIES AND LOCATIONS SHOWN ON THE DRAWINGS ARE TAKEN FROM READILY AVAILABLE INFORMATION. THE ACTUAL LOCATIONS OF THE UTILITY FACILITIES MAY VARY SOMEWHAT FROM THE LOCATIONS SHOWN OR INDICATED ON THE DRAWINGS. THE SITE UTILITY CONTRACTOR SHALL CONTACT ALL AGENCIES WITH UTILITY FACILITIES IN THE VICINITY OF THE WORK AND SHALL LOCATE ALL UNDERGROUND FACILITIES BEFORE BEGINNING WORK. THE CONTRACTOR SHALL PROTECT ALL UTILITY FACILITIES AND REPAIR ANY DAMAGES RESULTING FROM THEIR WORK AT NO ADDITIONAL COST TO OWNER, IN CONFORMANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS AND

USE ONLY DUCTILE IRON WATER PIPE AND FITTINGS FOR WATER LINES OVER 2" . PIPE 2" AND SMALLER SHALL BE TYPE K COPPER. FITTINGS SHALL BE COPPER OR CAST BRONZE. JOINTS SHALL BE

14. UTILITY LEAD—INS TO BUILDING SHALL NOT BE INSTALLED UNTIL BUILDING PLANS ARE COMPLETED AND LOCATIONS ESTABLISHED ON THE ARCHITECTURAL PLUMBING PLANS. LEAD-INS MAY CHANGE 15' HORIZONTALLY AND 3' VERTICALLY PRIOR TO INSTALLATIONS AT NO ADDITIONAL COST TO THE OWNER. UTILITY CONTRACTOR SHALL REQUEST AND RECEIVE WRITTEN APPROVAL FROM PRIME CONTRACTOR PRIOR TO INSTALLATION OF LEAD-INS. LOCATION, SIZE, AND INVERT ELEVATIONS OF SANITARY SEWER SHALL BE COORDINATED WITH THE APPROVED

15. THE OWNER WILL PAY ALL WATER CONNECTION AND AVAILABILITY FEES. 16. THRUST BLOCKS SHALL BE PROVIDED AT ALL TEES, ELBOWS, AND BENDS
OF SUFFICIENT SIZE TO COMPLY WITH MINIMUM STANDARDS OF N.F.P.A. -

SHOULD LATENT SOIL CONDITIONS NECESSITATE, CONTRACTOR SHALL INSTALL SPECIAL SUPPORTS FOR PIPING AND/OR APPURTENANCES INCLUDING THE REMOVAL OF UNSUITABLE MATERIAL AND BACKFILLING WITH GRAVEL OR OTHER MATERIAL. CONTRACTOR SHALL PERFORM ANY SUCH WORK AS DIRECTED BY THE ARCHITECT AND/OR SOILS ENGINEER AT NO COST TO OWNER.

CONTRACTOR TO COORDINATE ALL WORK WITH OTHER UTILITY INSTALLATIONS NOT COVERED IN THESE PLANS (ELECTRIC, TELEPHONE, GAS, CABLE, ETC.) AND ALLOW FOR THEIR OPERATIONS AND CONSTRUCTION TO BE PREPARED.

20. SITE UTILITY CONTRACTOR TO COORD. WITH IRRIGATION CONTRACTOR TO PROVIDE POWER IN CONDUIT TO IRRIGATION CONTROLLER PER

MANUFACTURERS RECOMMENDATIONS. VERIFY EXACT LOCATION OF CONTROLLER W/ OWNER PRIOR TO INSTALLATION.

21. SEE SHEET C-5 & C-6 ADDITIONAL UTILITY DETAILS. 22. ALL WATER MAIN TAPS ASSOCIATED WITH WATER MAIN EXTENSIONS TO BE MADE BY THE WWWA. THE CONTRACTOR IS TO PROVIDE THE TAPPING

SLEEVE AND VALVE FOR ANY CONNECTION NOT DIRECTLY ASSOCIATED WITH A VAULT/METER INSTALLATION. 23. CONTRACTOR SHALL PROVIDE AND INSTALL ALL FIRE HYDRANT

MSTSD

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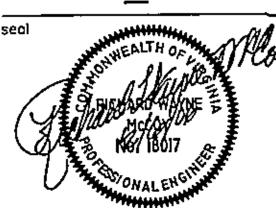
1) ADDENDUM #1 - 03/17/06

2) CHANGE REQUEST #1 - 03/31/06

3) CHANGE REQUEST #3 - 06/12/06 4) CHANGE REQUEST #4 - 07/14/06 5) CHANGE REQUEST #5 - 07/19/06

CBL & ASSOCIATES PROPERTIES, INC

key plan



THE DISTRICT AT VALLEY VIEW MALL

ROANOKE, VIRGINIA

SITE UTILITIES: WATER PLAN

02/06/06

checked

CONSULTING ENGINEERS

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