

# GENERAL NOTES PERTAINING TO PLAN:

1. THIS PLAN HAS BEEN PREPARED FROM EXISTING RECORDS. BOUNDARY IS BASED ON "PLAT FROM RECORDS FOR ANILL, LLC" RECORDED IN M.B. 1, PAGE 3277. UTILITIES ARE BASED ON RECORDS FROM THE WESTERN VIRGINIA WATER AUTHORITY, FIELD LOCATED UTILITY MARKINGS PERFORMED BY MISS UTILITY (TICKET NO. 347469) IN 1994, AND FIELD MARKINGS VERIFIED BY VISUAL INSPECTION IN 2011. NO CONTOURS ARE SHOWN FOR THIS PLAN.
2. THE SUBJECT PROPERTY IS WITHIN THE LIMITS OF FLOOD ZONE "X" AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP 51161C0166G DATED SEPTEMBER 28, 2007. THIS DETERMINATION IS BASED ON SAID MAP AND HAS BEEN VERIFIED BY ACTUAL FIELD ELEVATIONS.
3. THE LOCATION OF EXISTING WATERLINE IN McDOWELL AVENUE, N.E. IS BASED ONLY ON MEASUREMENTS TAKEN IN THE FIELD, BASED ON VISIBLE MANHOLES, DEPTH, LOCATION, AND SIZE OF WATERLINE SHALL BE VERIFIED BY THE CONTRACTOR.

## SITE SPECIFIC WATER LATERAL AND METER NOTES:

- W1. CONTRACTOR SHALL OBTAIN STREET OPENING PERMIT TO EXCAVATE WITHIN THE STREET. AS A COMMERCIAL CONNECTION, A PRIVATE CONTRACTOR INSTALLS THE LATERAL FROM THE MAIN TO THE PROPERTY LINE. THE WVVW PERFORMS THE ACTUAL CONNECTION OF THE LATERAL TO THE EXISTING MAIN AND PROVIDES THE METER AT THE PROPERTY LINE. THE CONTRACTOR MUST REPAIR THE EXISTING STREET IN ACCORDANCE WITH THE STREET OPENING PERMIT AND THE RIGHT OF WAY EXCAVATION AND RESTORATION STANDARDS.
- W2. THE CONTRACTOR INSTALLS THE LATERAL FROM THE METER TO THE PROPOSED WATERLINE CONNECTION WITH THE EXISTING WATERLINE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE EXISTING WATER LATERAL. SEE DETAIL "W-25".
- W3. THE CONTRACTOR SHALL PROVIDE CONNECTION OF NEW WATER LATERAL TO EXISTING WATER LATERAL AND ABANDON OLD LATERAL SERVICE TO BUILDING.
- W4. BASED ON WATER METER SIZING CALCULATIONS, THE REQUIRED LATERAL LINE IS A MINIMUM OF 1.5-INCH. THE REQUIRED METER IS A 1-INCH METER. SEE DETAIL "W-05".
- W5. PLUMBING PLANS FOR INSIDE THE BUILDING HAS ALREADY BEEN REVIEWED, APPROVED, AND INSTALLED UNDER A BUILDING PERMIT.
- W6. BASED ON THE WVVW GIS INFORMATION, AN 8-INCH WATERLINE IS LOCATED WITHIN THE PAVED SECTION OF McDOWELL AVENUE, N.E. THE HYDRAULIC GRADELINE FOR THIS SYSTEM IS 1136. WITH THE GROUND ELEVATION AT APPROXIMATELY 942, THE STATIC PRESSURE IS 84 PSI. THE CONTRACTOR SHALL VERIFY THAT A PRESSURE REDUCING VALVE IS INSTALLED WITHIN THE BUILDING.

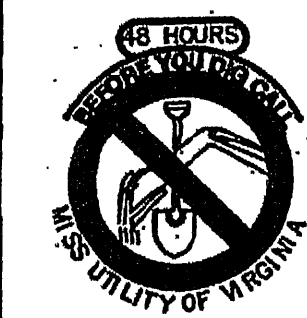
## SANITARY SEWER ITEMS ALREADY INSTALLED UNDER APPROVED BUILDING PLAN:

UNDER AN APPROVED BUILDING PLAN, A 50 LB GREASE TRAP WAS INSTALLED WITHIN THE BUILDING. (50 LB = 375 GALLONS).

## NOTES TO CLARIFY PLAN PURPOSE:

APPROVAL OF THIS PLAN ALLOWS FOR THE INSTALLATION OF A SEPARATE WATER SERVICE CONNECTION. AS PART OF THE WATER SERVICE CONNECTION, THIS PLAN ILLUSTRATES A NEW 10" PRIVATE WATERLINE EASEMENT, NEEDED TO INSTALL THE SEPARATE PRIVATE WATER SERVICE. THIS PLAN ALSO ILLUSTRATES A NEW 10" PRIVATE SANITARY SEWER EASEMENT OVER THE EXISTING SANITARY SEWER LINE, ALREADY IN PLACE AND BEING SHARED BY MULTIPLE PROPERTIES.

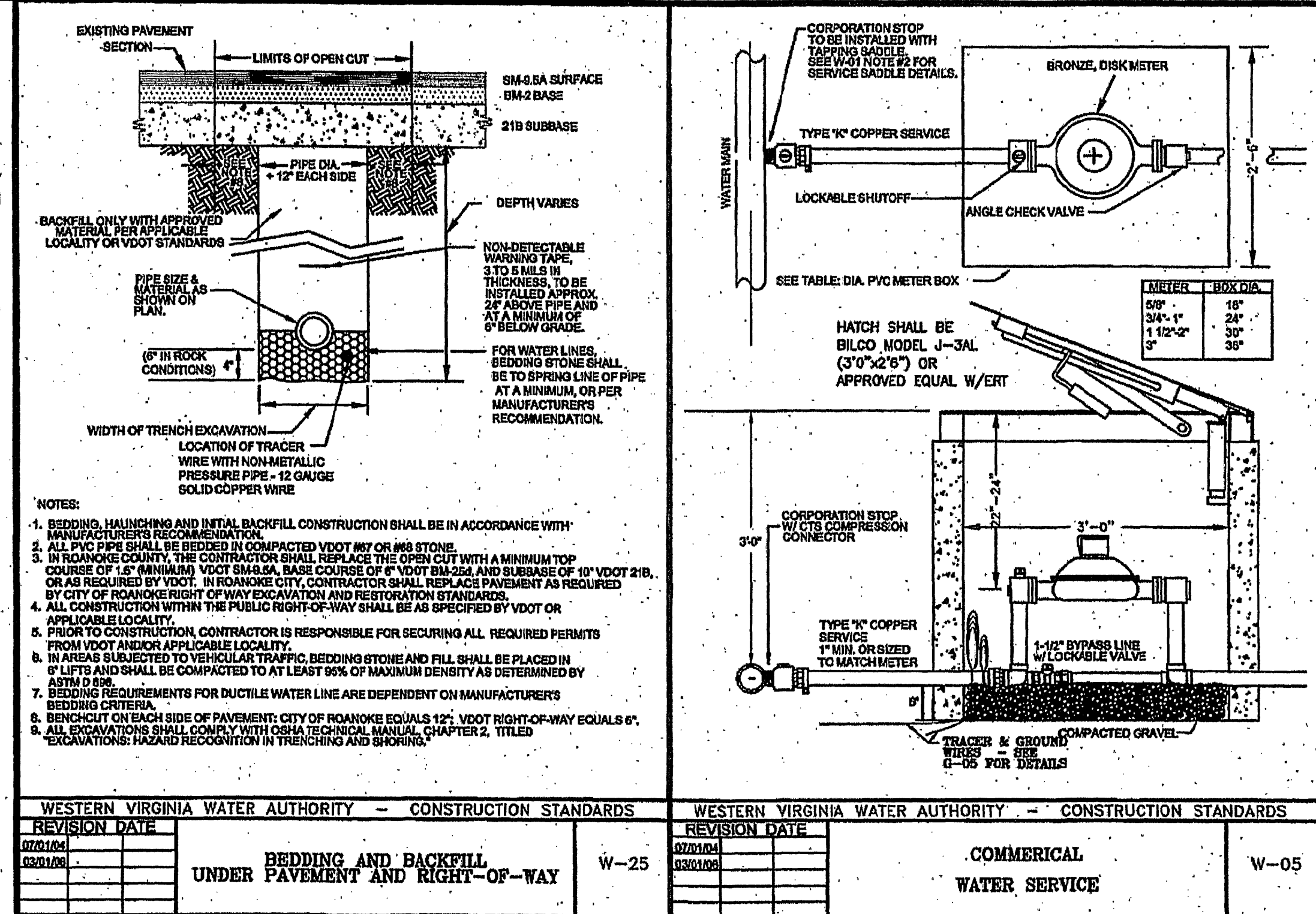
Miss Utility of Virginia  
201 RIVERS BEND BOULEVARD  
CHESTER, VIRGINIA 23831



BEFORE YOU DO ANYWHERE IN VIRGINIA CALL 1-800-552-7001.  
VA LAW REQUIRES 48 HOURS NOTICE BEFORE YOU EXCAVATE.

## ROW (RIGHT OF WAY) NOTE:

WORK IN THIS AREA IS TO BE PERFORMED PER THE CITY OF ROANOKE RIGHT OF WAY EXCAVATION AND RESTORATION STANDARDS.



## CONTACT INFORMATION:

Engineer/  
Surveyor: **Parker Design Group**  
816 Boulevard  
Salem, VA 24253  
Ph.: 540.387.1153  
Fax: 540.389.5767

Owner: **Mr. Bharat Patel**  
**RADHEYRADHEYKRISHNA, LLC**  
5712 Longridge Drive  
Roanoke, Virginia 24018  
Ph.: 540.589.1513

## GENERAL REVIEW NOTE:

THIS PLAN DOES NOT CONSTITUTE A COMPREHENSIVE SITE PLAN, EROSION & SEDIMENT CONTROL PLAN, OR STORMWATER MANAGEMENT PLAN. THE INSTALLATION OF UTILITIES IS EXEMPT FROM EROSION & SEDIMENT CONTROL REVIEW.

## GENERAL NOTES PERTAINING TO CONSTRUCTION:

1. The minimum required density for all compaction shall be 95 percent of maximum dry density with a moisture content within  $\pm 2$  percent of the optimum. It is the contractor's responsibility to verify compaction is suitable for building construction.
2. It is the contractor's responsibility to meet compliance requirements with section 50.1-406, et seq. of the Code of Virginia (overhead high voltage lines safety act).
3. The contractor shall be responsible for obtaining all necessary permits before beginning construction.
4. All construction will be in accordance with City of Roanoke and/or the Western Virginia Water Authority Standards and Specifications.
5. Unless shown and specified otherwise, methods and materials shall be in accordance with VDOT Road and Bridge Standards latest edition.
6. Contractor shall be responsible for repair of any utilities damaged as a result of construction activities. Verify location of all existing utilities prior to beginning work.
7. All utilities will be visually inspected by the City's Inspector prior to backfilling the trenches, including all utility crossings.
8. The contractor or developer is required to notify the City of Roanoke Engineering Division in writing at least three (3) days prior to any construction, including, installing water lines.
9. An approved set of plans and all permits must be available at the construction site.
10. Construction debris shall be containerized in accordance with the Virginia Litter Control Act. No less than one litter receptacle shall be provided on site. The contractor shall provide adequate means of cleaning mud from trucks and/or other equipment prior to entering public streets.
11. It is the contractor's responsibility to ensure that the streets are in a clean, mud and dust free condition at all times.
12. The developer and/or contractor shall supply all utility companies with copies of approved plans, advising them that all grading and installation shall conform to approved plans.
13. Contractors shall notify utilities of proposed construction at least two (2), but not more than ten (10) working days in advance. Area public utilities may be notified thru "Miss Utility" 1-800-552-7001.
14. Field corrections shall be approved by the Development Engineer in the City of Roanoke Department of Planning Building and Development prior to such construction.

## STANDARD CITY OF ROANOKE CONSTRUCTION PROCEDURE REQUIREMENTS

NOTICE: All Landowners, Developers and Contractors

FAILURE TO COMPLY WITH THE CONSTRUCTION PROCEDURE REQUIREMENTS LISTED ABOVE MAY RESULT IN THE COSTLY REMOVAL OF STRUCTURES, TIME DELAYS, OR THE ISSUANCE OF A STOP WORK ORDER.

**RIGHT-OF-WAY EXCAVATION PERMIT:** Prior to the commencement of any digging, alteration or construction within the public right of way (streets, alleys, public easements) a right of way excavation permit shall be applied for and obtained by the contractor from the City of Roanoke.

**PLANS AND PERMITS:** A copy of the plans as approved by the City (signed by the proper City officials) and all permits issued by the City shall be available at the construction site at all times of ongoing construction.

**LOCATION OF UTILITIES:** The contractor shall verify the location of all existing utilities prior to the commencement of any construction.

**STREETS TO REMAIN CLEAN:** It shall be the responsibility of the contractor to insure that the public street adjacent to the construction entrance remains free of mud, dirt, dust and/or any type of construction materials or litter at all times.

**BARRICADES/DITCHES:** The contractor shall maintain the integrity of all excavated ditches and shall furnish and ensure that all barricades proper and necessary for the safety of the public are in place.

**SEWER AND PAVEMENT REPLACEMENT:** Construction of sanitary sewers and the replacement of pavement shall be in accordance with approved standards and specifications of the City of Roanoke and the Western Virginia Water Authority.

**APPROVED PLANS/CONSTRUCTION CHANGES:** Any change or variation from construction design as shown on the officially approved plans shall be approved by the erosion and sediment control agent prior to said changes or variation in construction being made.

## SITE SPECIFIC DEMOLITION NOTES:

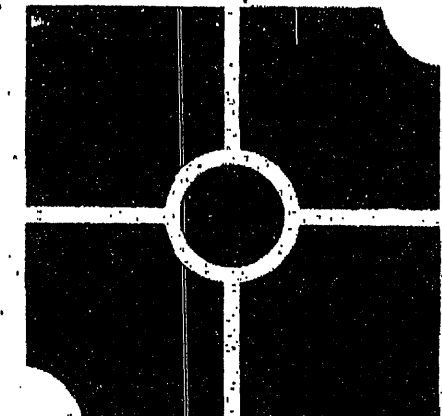
- DN-1: PROVIDE NEAT, VERTICAL SAW CUT AND REMOVE ASPHALT IN AREAS OF UTILITY TRENCHING.
- DN-2: WORK WITHIN THE RIGHT OF WAY SHALL BE PERFORMED AS NOTED IN THE "ROW (RIGHT OF WAY) NOTE".
- DN-3: CONTRACTOR SHALL PROTECT EXISTING UTILITIES ALONG THE PUBLIC RIGHT OF WAY. EXISTING GRADE SHALL REMAIN ESTABLISHED AT BASE OF UTILITY POLES.
- DN-4: EXISTING SIDEWALK AND CURB SHALL BE REMOVED FROM EXPANSION JOINT TO EXPANSION JOINT AND RECONSTRUCTED ONCE THE WATER LATERAL HAS BEEN INSTALLED. CONTRACTOR SHALL WORK OUTSIDE OF EXISTING CONCRETE ENTRANCE.

## EROSION & SEDIMENT CONTROL MINIMUM STANDARDS

- MS-16 UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
  - A. NO MORE THAN 500 LINEAR FEET OF TRENCH SHALL BE OPEN AT ONE TIME.
  - B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UP-SIDE OF TRENCHES.
  - C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
  - D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
  - E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
  - F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

## GENERAL DEMOLITION NOTES

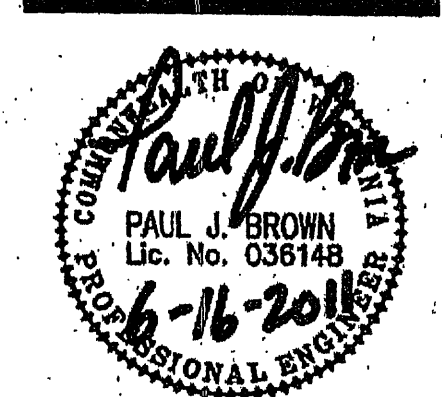
- 1) THE CONTRACTOR SHALL PROVIDE AT LEAST THE FOLLOWING PROTECTIONS AT THE JOB SITE: MAKE ARRANGEMENTS, BEFORE INITIATING DEMOLITION, FOR RELOCATING, ABANDONING, OR SIMILAR ACTION AS MAY BE REQUIRED RELATIVE TO UTILITIES TO PERMIT WORK TO PROCEED WITHOUT DELAY. ARRANGEMENTS SHALL BE MADE IN ACCORDANCE WITH REGULATIONS OF AUTHORITIES OF UTILITIES MENTIONED, SUCH AS OVERHEAD AND UNDERGROUND ELECTRIC, TELEPHONE, GAS, WATER, ETC.
- 2) ENSURE SAFE PASSAGE OF PERSONS AROUND ALL AREAS OF DEMOLITION. CONDUCT OPERATIONS TO PREVENT DAMAGE TO ADJACENT BUILDINGS, STRUCTURES, OTHER FACILITIES, OR INJURY TO PERSONS.
- 3) PROMPTLY REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS AT NO COSTS TO THE OWNER(S).
- 4) MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. PREVENT INTERRUPTION OF SERVICES. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES AS ACCEPTABLE TO GOVERNING AUTHORITIES.
- 5) USE WATER SPRINKLING AND OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT POLLUTION TO THE LOWEST PRACTICAL LEVEL.
- 6) COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- 7) RETURN ADJACENT AREAS TO EXISTING CONDITIONS PRIOR TO THE START OF WORK.
- 8) PERMITS, FEES, AND LICENSES SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR, INCLUDING DISPOSAL CHARGES AS REQUIRED.
- 9) ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE GOVERNING AUTHORITIES IN DEMOLITION OF EXISTING PAVEMENT, CONCRETE, CURB, AND OTHER STRUCTURES AS MAY BE REQUIRED.
- 10) THE SITE SHALL BE CLEARED AND SELECTED ITEMS REMOVED AS SHOWN WITHIN THE LIMITS OF DISTURBANCE. ALL DEBRIS SHALL BE REMOVED FROM THE SITE. THE CONTRACTOR SHALL SAW-CUT CURB, PAVEMENT, ETC. AT ALL PLACES WHERE NEW CONSTRUCTION JOINS THE EXISTING.



**parker**  
DESIGN GROUP

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Salem, Virginia 24153  
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Fax: 540-389-5767  
www.parkergroup.com

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**Utility Connection Plan for**  
**RADHEYRADHEYKRISHNA LLC**  
Tract A 1B (33,935 SF)  
535 ORANGE AVENUE  
5552 ORANGE AVE. NW  
City of Roanoke, VA  
M.B. 1, Pg. 277 Tax # 0025015

## REVISIONS:

DESIGNED BY:	LRD/PJB
DRAWN BY:	LRD/PJB
CHECKED BY:	PJB
SCALE:	1" = 50'
DATE:	June 16, 2011

SHEET TITLE:  
**Waterline Lateral Connection**

**C01**  
01 OF 01  
PROJECT NUMBER:  
11-0075-01