

ALL LANDOWNERS, DEVELOPERS, AND CONTRACTORS

Failure to comply with the CONSTRUCTION PROCEDURE REQUIREMENTS listed below may result in the costly removal of structures, time delays, or the issuance of a Stop Work Order.

- 1. CITY INSPECTIONS: To ensure the coordination of timely and proper inspections, a preconstruction conference shall be initiated by the Contractor with the City Building Department. Call 703-981-2221 to arrange a conference at least three (3) days
- 2. STREET OPENING PERMIT: Prior to the commencement of any digging, alteration, or construction within the public right-ofway (streets, alleys, public easements) a street opening permit shall be applied for and obtained by the Contractor from the City
- PLANS AND PERMITS: A copy of the plans approved by the City (signed by the proper City officials) and all permits shall be available at the construction site at all times of ongoing construction. This shall include the ESC Narrative.
- LOCATION OF UTILITIES: The Contractor shall verify the location and elevation of all existing utilities prior to the commencement of any construction. The Engineer shall be contacted
- if any location is different from that shown on the
- if there appears to be any conflict, or
- upon discovery of any utility not shown on the

TO MISS UTILITIES CALL "MISS UTILITY" OF VIRGINIA (TOLL FREE) 1-800-552-7001 48 HOURS BEFORE YOU DIG. The Contractor shall minimize disturbance to existing utilities during construction and shall be responsible for damage caused to any utility as a result

- adequate construction entrance for all construction-related egress from the site. Size and composition of the construction entrance shall be determined by the City Site Plan Inspector.
- 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
- 8. 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 Rognoke
- APPROVED PLANS/CONSTRUCTION CHANGES: Any change or variation and roots; minimum pH value of 5.5 and maximum of 7.0. Topsoil from construction design as shown on the officially approved plans shall be approved by the City Engineer prior to said changes or

10. FINAL ACCEPTANCE/CITY: The Developer or Contractor shall furnish the City of Roanoke Engineering Department with a final correct set of "as—built" plans prior to final acceptance by the City. This applies only to street improvements and utilities that are intended to be maintained by the City of Roanoke (i.e.; water, sanitary sewer and/or storm drains).

SPECTRUM DESIGN, PC assumes no responsibility for information on or adequacy of the plans until they have been approved by required

Commencement of any work on the project is at the sole risk of the

SPECTRUM DESIGN, PC assumes no responsibility for the completion or quality of performance of the Contracts of the General Contractor, Sub-contractors or other third parties.

STANDARDS: All materials and methods shall comply with the applicable standards of the American Society of Testing and Materials (ASTM), American National Standards Institute (ANSI), Virginia Department of Transportation (VDOT), Virginia Erosion and Sediment Control Handbook (ESC Handbook), Commonwealth of Virginia Department of Health (VDH) and/or the City of Roanoke, latest editions. Recommendations of applicable materials manufacturers shall also be followed as part of this Contract.

PLANS, PERMITS, INSPECTION, VERIFICATION: The Contractor shall be responsible for obtaining any and all necessary permits, including fees. No work shall begin on this project without written approval of Construction Documents from the City of Roanoke. An approved set of Construction Documents shall be available on-site at all times while work is in progress. All work shall be subject to inspection by the City of Roanoke and Virginia Department of Transportation (VDOT) Inspectors (where applicable). Contractor shall verify and be responsible for all dimensions on site.

UTILITY COMPANIES: The Contractor shall supply all utility companies with copies of approved plans, advising them that all grading and installation shall conform to approved plans.

of Roanoke Engineering Department prior to such construction.

DEBRIS: Construction debris shall be containerized in accordance with the Virginia Litter Control Act. No less than one litter receptacle shall be provided on site. All damaged material or surplus excavated material not suitable for use as fill, backfill or topsoil shall become the property of the Contractor to dispose of offsite as he wishes, without injury to the Owner or any

CLEANUP & RESTORATION: Keep the construction site neat, clean and orderly at all times. Cleanup shall be vigorous and continuous to

Materials at the site shall be stored in a neat and orderly manner. All damaged material shall be removed from the site immediately and disposed of in a proper manner. After trenching,

remove all excavated materials unsuitable for, or in excess backfill requirements.

Immediately following each portion of the Work as it progresses, by cleanup and restoration, make every reasonable effort to encourage return of the entire surface and all improvements to a pleasant appearance and useful condition appropriate and complementary to the surroundings, and equal or superior to that before construction began.

TRENCHING NOTES

CLEAR, GRUB & STRIP: All vegetation and overburden including topsoil, organic material and any unsatisfactory soil materials, shall be removed to the extent of grading indicated on the grading plan. Asphalt shall be neatly cut with a saw in straight lines

BACKFILL: Excavated and reused material free of lumps or rocks greater than six (6) inches. Material shall be free of construction debris, roots, waste, frozen materials, organics or other deleterious matter.

SELECT BACKFILL: Fill material shall be satisfactory soil materials free of rock or stones larger than two (2) inches in any dimension, debris, waste, frozen materials, organics and other deleterious matter.

COMPACTION: Fill material shall be placed in lifts not exceeding eight (8) inches and compacted to one hundred (100) percent of its maximum density as determined in accordance with VIM-1 (Standard Proctor). Separate Proctors shall be run for each soil type being

TESTING: Each compacted lift shall be inspected and tested by the GE by conducting a minimum of three (3) field density tests per lift. Additional tests per lift shall be required if deemed appropriate by the Testing Agency.

PAVEMENT NOTES

STANDARDS: All construction methods and materials shall be in accordance with the VDOT "Road & Bridge Standards & Specifications," latest edition and the latest requirements of the City of Rognoke

CHANGES WITHIN RIGHT-OF-WAY: Local government approval of plans for improvement within public rights-of-way preclude the right to add additional facilities without repeating the review process.

UTILITIES: All utilities shall be in place prior to laying the base material.

PAVEMENT ONSITE: Onsite paving shall consist of a eight (8) inch base course of #21-B (based upon a CBR = 10 (VTM-8)), prime coat and three (3) inches of SM-2A. Subbase fill shall be compacted to 100% of VTM-1 (Standard Proctor).

SEEDING NOTES

TOPSOIL: Topsoil shall be fertile, agricultural soil, typical for locality, capable of sustaining vigorous plant growth, taken from a drained site; free of subsoil, clay or impurities, plants, weeds thickness shall be four (4) inches.

SEED: Seed shall be the following mixture and application rate: Lawns (Permanent Seeding):

Percentage Common Name Turf-Type Tall Fascue 215#/no 10% Kentucky Bluegrass (i.e.; Rebel, Rebel 2, Bonanza, Falcon, Mustang, o

SOIL AMMENDMENTS:

Lime: Natural dolomitic limestone containing not less than 85% of total carbonates with a maximum of 30% magnesium carbonates, ground so that not less than 90% passes a 100—mesh sieve. Apply three (3) tons/acre (140 lbs/1000 sf) pulverized agricultural lime.

Commercial Fertilizer: Complete fertilizer of neutral character, with some elements derived from organic sources and containing the following percentages of available plant nutrients.

— For lawns, provide fertilizer with the percentage of nitrogen required to provide not less than one (1) pound of actual nitrogen per 100 square feet of lawn area and not less than 4% phosphoric acid and 2% potassium. Provide nitrogen in a form that will be available to luwn during initial period of growth: at least 50% of nitrogen shall be organic form.

MULCHING: Seeding shall be followed with the application of organic mulch conforming in material and application to Std & Spec 3.35 of the ESC Handbook.

ESTABLISHMENT: The Contractor shall water, fertilize, mow and otherwise maintain all seeded areas beginning at installation and going through the third cutting of an established lawn. An established stand shall be uniform in coverage and of the specified mixture. The Contractor shall restore/replace any portion of the seeding and/or mulch work that is found defective or which becomes damaged prior to final acceptance.

WATER NOTES

STANDARDS: Construction of all water lines, structures, and pavement replacement shall conform to the requirements of the Virginia Department of Transportation (VDOT) "Road and Bridge Standards and Specifications and the Commonwealth of Virginia/State Board of Health (VDH) Water Works Regulations' latest editions, as minimum standards, as well as those of the City of Roanoke. See details.

TAPS/CONNECTIONS: All connections to existing water mains and meter boxes shall be done by the City of Roanoke Water Department at standard fees paid for by the Contractor.

SEPARATION: The Contractor shall comply with the State Water Works Regulations pertaining to separation of water and sanitary sewer.

PIPE MATERIALS: Water pipe shall be ductile iron with push-on joints. Ductile iron pipe shall conform to AWWA C-151/ANSI 21.51 and fittings shall conform to AWWA C-110/ANSI 21.10. The pipe and fittings shall be bituminous coated and cement lined in accordance with AWWA C-104/ANSI 21.50 and shall be Class 50, as a minimum. unless specified or indicated otherwise.

PIPE ANCHORAGE: Pipes shall be anchored using concrete thrust blocks at all horizontal and vertical changes in direction including bends, wyes, tees and elbows.

Water Dept # 01-1

ALLIANCE INC.

verizon

VERIZON NETWORK SERVICES, INC. 1095 AVENUE OF THE AMERICAS NEW YORK, NEW YORK 10036

LEAD TEAM CONTACT:



10 CHURCH AVENUE, SE, PLAZA SUITE 1 ROANOKE, VIRGINIA 24011-2104 540 342 8001 ROANOKE • MARION • VIRGINIA BEACH

A/E PROJECT NO.: 01171 CONSULTANTS:

PROFESSIONAL SEAL:



A/E INFORMATION:

DESIGN ARCH: PROJECT ARCH:
PROJECT ENGINEER: MAR.
CHECKED: MIC.
DIRAWN: MAR.

PROJECT TITLE / DESCRIPTION

CABLE VAULT FIRE

PROTECTION

FACILITY LOCATION:

3024 BARKLEY AVE NW ROANOKE, VA 24012

GLC NO.: 387049

SERIAL NO.: 5002482

DATE: SEPTEMBER 28, 2001

NO:	REVISION:	DATE:
WSA	PROJECT NO:	

01SP032

DRAWING TITLE:

CIVIL SITE PLAN DETAIL

SHEET NUMBER:

REQUIRES: Plumping permet ST. OPENING PERMIT