

SEQUENCE OF CONSTRUCTION:

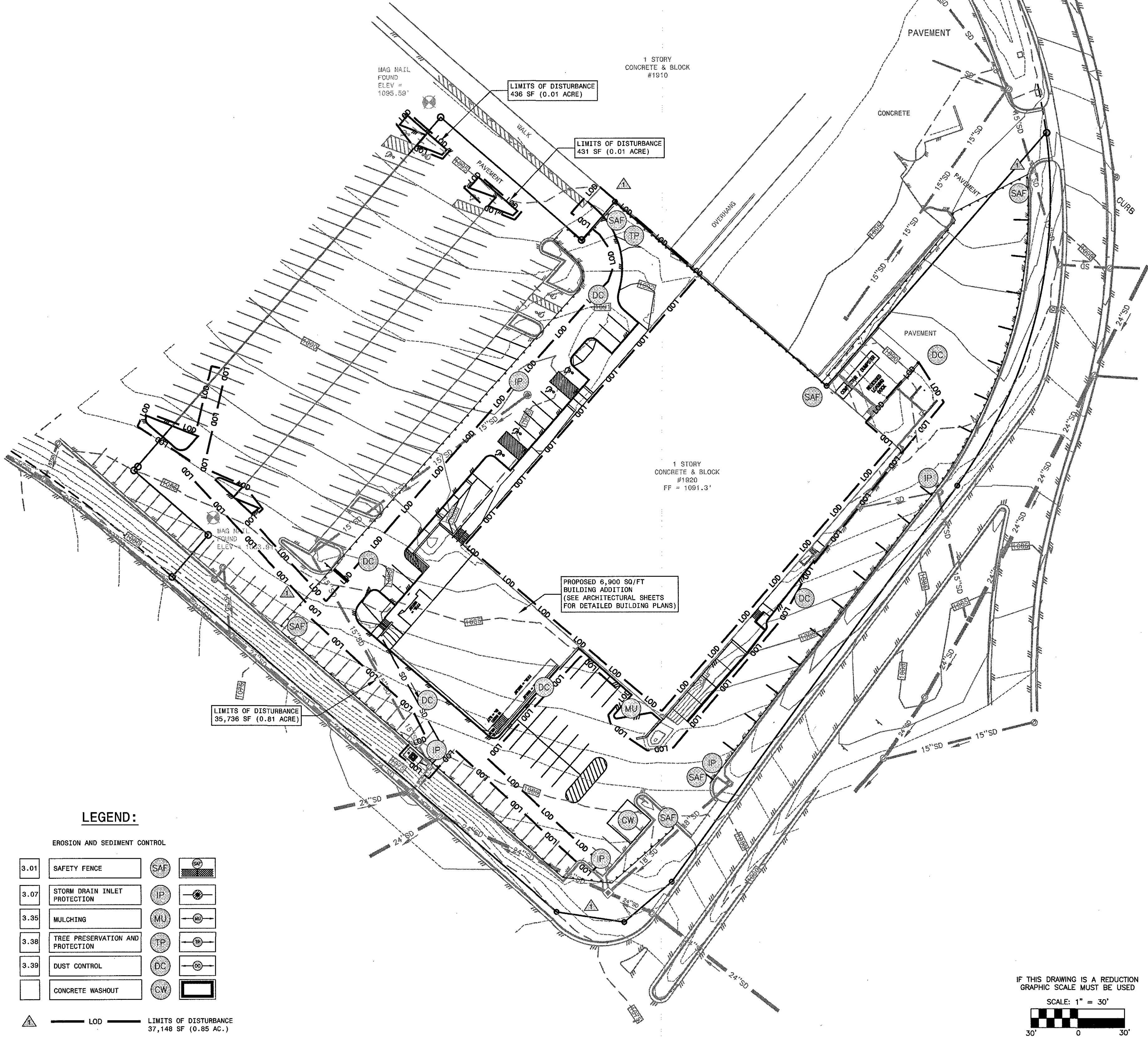
1. THE OWNER AND REGISTERED LAND DISTURBER (RLD) WILL CONTACT THE CITY OF ROANOKE'S DEVELOPMENT REVIEW COORDINATOR ADRIAN GILBERT (540) 853-5796 (ADRIAN.GILBERT@ROANOKEVA.GOV) TO SCHEDULE THE PRE-CONSTRUCTION MEETING. ACCOUNT FOR A MINIMUM OF TWO BUSINESS DAYS IN ADVANCE OF DESIRED MEETING TIME.
2. CONTRACTOR SHALL INSTALL A JOB SITE WORK BOX AND POST THE LAND DISTURBANCE PERMIT (EROSION AND SEDIMENT CONTROL) SO THAT IT IS VISIBLE AT THE SITE ENTRANCE. A COPY OF THE STORMWATER MANAGEMENT POLLUTION PREVENTION PLAN (SWPPP) AND APPROVED SET OF CONSTRUCTION PLANS SHALL BE PLACED INSIDE THE JOB SITE WORK BOX. THE SWPPP AND APPROVED CONSTRUCTION PLANS SHALL REMAIN ONSITE THROUGH CONSTRUCTION WITH A LOG OF THE MAJOR GRADING ACTIVITIES, CONSTRUCTION MILESTONES, AND RAIN EVENTS BEING MAINTAINED THROUGH CONSTRUCTION COMPLETION.
3. PERIMETER CONTROLS INCLUDING TEMPORARY CHAINLINK SAFETY FENCING, LIMITED SILT FENCE, INLET PROTECTION, AND TREE PROTECTION SHALL BE INSTALLED AND MAINTAINED PRIOR TO BEGINNING OF ANY LAND DISTURBANCE. NOTE IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT PUBLIC STREETS ARE MAINTAINED IN A CLEAN, MUD, AND DUST FREE CONDITION AT ALL TIMES AS THIS IS A HIGH PEDESTRIAN/TRAFFIC AREA.
4. CONTRACTOR SHALL BEGIN DEMOLITION OF THE EXISTING BUILDING, SIDEWALK, PAVEMENT, AND RELOCATION OF UTILITIES AS PER PLAN. CONTRACTOR WILL BE REQUIRED TO REMOVE MATERIALS AS DEMOLITION TAKES PLACE, NO STOCKPILING OF EXCESS MATERIALS. CONTRACTOR MAY BRING DUMPSTERS ONSITE OR HAUL OFF AS NECESSARY. MATERIAL LEAVING THE SITE WILL HAVE TO BE TRANSPORTED TO AN APPROVED CITY OF ROANOKE SOLID WASTE COLLECTION FACILITY.
5. ONCE THE SITE HAS BEEN CLEARED THE CONTRACTOR SHALL BEGIN BUILDING, SIDEWALK, UTILITY, AND RETAINING WALL CONSTRUCTION. NO SOIL STOCKPILES ARE PERMITTED PER THIS PLAN. CONTRACTOR SHALL BRING IN FILL MATERIAL AND PLACE ACCORDINGLY. AT THIS TIME, THE 10'X6' FILTERBA BIOTENTION SYSTEM PRE-MANUFACTURED STORMWATER UNIT CAN ALSO BE INSTALLED.
6. CONTRACTOR SHALL INSTALL THE CONCRETE WASHOUT AND SET UP THE MATERIAL STAGING/STORAGE AREA.
7. AS BUILDING CONSTRUCTION PROGRESSES, CONTRACTOR SHALL BEGIN TO FINE GRADE THE SITE FOR ASPHALT PLACEMENT.
8. ONCE THE SITE IS TO GRADE, THE ASPHALT, CAR PARKING LOT AND TRAFFIC MOVEMENT STRIPPING, AND NECESSARY INTERNAL SITE SIGNAGE MAY BE INSTALLED.
9. ONCE THE SITE HAS BEEN STABILIZED, THE CONTRACTOR SHALL FINISH CONSTRUCTION OF BUILDING, SIDEWALKS, LIGHTING, LANDSCAPING, AND INSTALL NECESSARY ADA HANDICAP MEASURES.
10. CONTRACTOR SHALL CONTACT THE CITY OF ROANOKE FOR A FINAL SITE INSPECTION BEFORE REMOVING PERIMETER CONTROLS AND CONCRETE WASHOUT.
11. CONTRACTOR IS TO BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SOIL AND EROSION MEASURES ONCE THE SITE HAS BEEN APPROVED BY THE CITY OF ROANOKE.

EROSION AND SEDIMENT CONTROL NARRATIVE:

- Project Description: The existing 1 story concrete block building currently contains one tenant space; the project will renovate the space such that two tenant spaces are available for lease. Furthermore, a 6,900 square foot one story addition will be constructed immediately to the south of the existing building. The 6,900 S.F. space will contain two tenant spaces. A new loading dock and ramp is being constructed on the east side of the existing building to facilitate deliveries into the new tenant space. The west (front) side of the tenant spaces will have new hardscaping and parking lot layout.
The project will disturb approximately 0.85 acres.
- Existing Conditions: See project description. The new 6,900 S.F. addition and the loading dock and ramp are currently asphalt pavement for parking and travel way.
- Adjacent Areas: Adjacent areas are previously developed and predominantly impervious. The adjacent area is the Valley View mall complex.
- Off-Site Areas: Off-site areas are not anticipated for this project.
- Soils: See sheet C002 for soil information.
- Critical Areas: Localized steep slopes on this project will be protected from runoff via diversions and other erosion control measures until permanent seed can be established. The majority of the site is impervious and drains directly to existing storm drain facilities
- MS-19 language and pertinent action responses are included on this sheet as well as in the accompanying drainage calculation package. MS-19 are considered and minimum standards are met as appropriate for this project.
- Erosion and Sediment Control Measures: Erosion and sediment control measures are shown on the plan on this sheet and appropriate details are provided on sheet C501. Control conforms to or greater than minimum standards and specifications of the 1992 VESOP.
- Management Strategies/Sequence of Construction: See Sequence of Construction above.
 1. The RLD shall be responsible for the installation and maintenance of all erosion and sediment control practices maintaining them in good and effective operating condition.
 2. The RLD shall notify the Architect when the local governing official has inspected and approved all in-place erosion and sediment control devices.
 3. Construction shall be sequenced so that the duration of grading operations is as brief as possible.
 4. Temporary seeding or other stabilization shall follow within 7 days after grading, or installation if a temporary measure.
 5. Limits of disturbance shall be honored. Any disturbance required for utility line installation shall be limited to within ten (10) feet of the utility centerline.
 6. No solid materials, including building materials, garbage, and debris shall be discharged to surface waters of the State, except as authorized by a Section 404 permit.
 7. Where sediment is transported onto a public road surface, the road shall be cleaned thoroughly at the end of each day, at a minimum. Sediment shall be removed by shoveling or sweeping. Cleared sediment shall be returned to the point of likely origin or other suitable location. The generation of dust shall be minimized. Bulk clearing of accumulated sediment shall not include flushing the area with water. Street washing shall be allowed only after sediment has been so removed.
 8. Ensure and demonstrate compliance with applicable State and/or local wastewater disposal, sanitary sewer or septic system regulations.
 9. All sediment removed from sediment trapping measures or cleaning operations shall be appropriately wasted so as not to become a dust or sediment problem elsewhere.
- Permanent Stabilization: Contractor/RLD shall ensure all areas contributing to ESC measures are permanently stabilized before removing ESC measure.
- Maintenance of ESC Measures: In general, all erosion and sediment control measures shall be checked weekly and after each significant rainfall.
- Stormwater Management Considerations: Existing infrastructure and new Filterba unit adequately achieve quantity and quality requirements. See stormwater management calculations for more information.

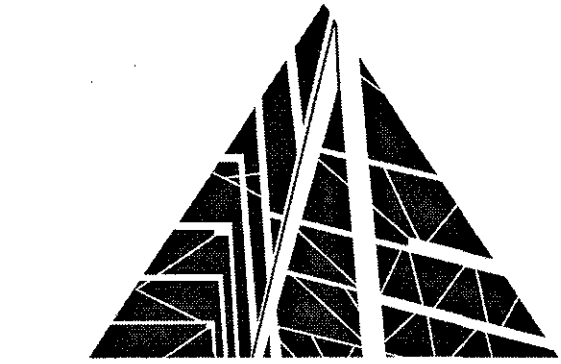
STANDARDS FOR FILL PLACEMENT/COMPACTION

1. ALL UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE CONSTRUCTION LIMITS OF ALL ROADWAYS AND PADS BEFORE PLACING EMBANKMENT MATERIAL. ALL PERMANENT FILL SHOULD CONSIST OF CLEAN SOIL FILL, COMPACTED 6" TO 8" LIFTS TO A MINIMUM COMPACTIVE EFFORT OF 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698). MOISTURE CONTENT SHOULD BE MAINTAINED WITHIN 2 TO 3 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT TO FACILITATE COMPACTION. A PORTABLE COMPACTOR, SUCH AS A JUMPING JACK, PLATE TAMPER OR TRENCH ROLLER, SHOULD BE USED WITHIN CLOSE PROXIMITY OF THE PIPES TO ENSURE PROPER COMPACTION, WHEREAS HEAVY CONSTRUCTION EQUIPMENT CAN BE USED FOR THE MASS FILL. EACH LIFT OF FILL SHOULD BE TESTED IN ORDER TO CONFIRM THAT THE RECOMMENDED DEGREE OF COMPACTION IS ACHIEVED.
2. NEW FILL SHOULD BE BENCHED WITH A MINIMUM WIDTH OF 15 FEET PARALLEL TO THE TOE OF THE EMBANKMENT AND CUT INTO THE EXISTING SLOPE AS THE FILL PLACEMENT PROCEEDS. THE PURPOSE OF THE BENCHING IS TO CREATE POSITIVE SOIL BOND BETWEEN THE NATURAL SOILS AND THE NEW FILL. TOPSOIL, TREE STUMPS AND ROOT MAT SHOULD BE REMOVED PRIOR TO FILL PLACEMENT. EACH SUCCESSIVE LIFT OF FILL SHOULD BE PLACED HORIZONTALLY AND PARALLEL TO THE SLOPE FACE.
3. COMPACTION OF THE OUTER FACE OF THE SLOPES USING TRACKED EQUIPMENT OR PORTABLE COMPACTORS IS CRITICAL TO MAINTAINING A STABLE SLOPE AND TO MINIMIZE SLOUGHING. IF POSSIBLE, THE SLOPES SHOULD BE OVER FILLED AT LEAST 2 FEET BEYOND THE LIMITS OF THE FILL SLOPE, COMPACTED AND CLIPPED (CUT) WITH A TRACK DOZER TO THE DESIGN GRADES TO ENSURE THAT THE OUTER EDGE OF THE SLOPE IS PROPERLY COMPACTED. EROSION PROTECTION, SUCH AS EROSION MATTING, CAN HELP TO ESTABLISH GRASS AND OTHER VEGETATIVE GROWTH.



KEY PLAN

GENERAL NOTES



10 CHURCH AVE SE, PLAZA SUITE 1 ROANOKE, VIRGINIA 24011 540.342.8001

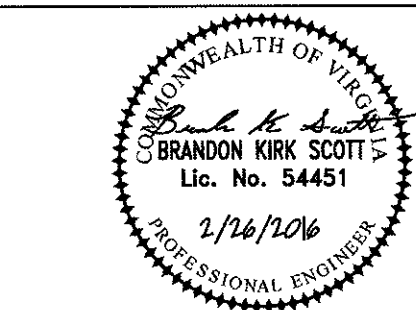
1920 VALLEY VIEW BLVD NW

COMMERCIAL BUILDING
UPGRADE

ROANOKE, VIRGINIA

STATE PROJECT NO. N/A

SPECTRUM DESIGN PROJECT NO.



DATE 2/26/2016
DESIGN/ARCHITECT
PROJECT ARCHITECT
PROJECT ENGINEER
CHECKED BY
DRAWN BY
REVISIONS NUMBER DATE

SHEET TITLE

GRADING AND
E & S CONTROL

C103