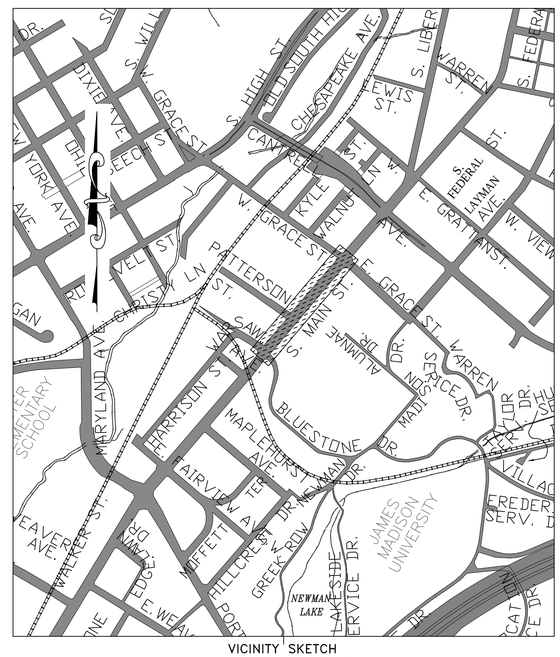
City of Harrisonburg, Virginia

SOUTH MAIN STREET MEDIAN

LEGEND

- BFP — BACKFLOW PREVENTER, EXISTING
- BFP — BACKFLOW PREVENTER, PROPOSED
- BENCHMARK
- 1400 — CONTOURS, EXISTING
- 1400 — CONTOURS, PROPOSED
- CURB AND GUTTER, EXISTING
- CURB AND GUTTER, PROPOSED
- EP — EDGE OF PAVEMENT, EXISTING
- SH — SHOULDER, EXISTING
- DRAINAGE STRUCTURES, EXISTING
- DRAINAGE STRUCTURES, PROPOSED
- GRATE INLET, PROPOSED
- E — ELECTRICAL TRANSFORMER/BOX, EXISTING
- E — ELECTRICAL TRANSFORMER/BOX, PROPOSED
- X — FENCE LINE, EXISTING
- X — FENCE LINE, PROPOSED
- FIRE HYDRANT, EXISTING
- FIRE HYDRANT, PROPOSED
- G — GAS LINE, EXISTING
- G — GAS LINE, PROPOSED
- GUARD RAIL, EXISTING
- GUARD RAIL, PROPOSED
- HANDRAIL, PROPOSED
- IRON PIN
- LIGHT, EXISTING
- LIGHT, PROPOSED
- M — MAIL BOX, EXISTING
- M — MAIL BOX, PROPOSED
- MONUMENT
- PROPERTY LINE, EXISTING
- PROPERTY LINE, PROPOSED
- RETAINING WALL, EXISTING
- RETAINING WALL, PROPOSED
- EX. R/W — RIGHT-OF-WAY, EXISTING
- R/W — RIGHT-OF-WAY, PROPOSED
- S — SANITARY SEWER LINE, EXISTING
- S — SANITARY SEWER LINE, PROPOSED
- SANITARY SEWER MANHOLE, EXISTING
- SANITARY SEWER MANHOLE, PROPOSED
- SIGN, EXISTING
- SIGN, PROPOSED
- SIGNAL BOX, EXISTING
- SIGNAL BOX, PROPOSED
- TRAVERSE POINT
- OU — UTILITIES – OVERHEAD, EXISTING
- OU — UTILITIES – OVERHEAD, PROPOSED
- UG — UTILITIES – UNDERGROUND, EXISTING
- UG — UTILITIES – UNDERGROUND, PROPOSED
- UTILITY POLE W/ GUY WIRE, EXISTING
- UTILITY POLE W/ GUY WIRE, PROPOSED
- W — WATER LINE, EXISTING
- W — WATER LINE, PROPOSED
- WATER METER, EXISTING
- W — DOUBLE WATER METER, EXISTING
- W — WATER METER, PROPOSED
- WV — WATER VALVE, EXISTING
- WV — WATER VALVE, PROPOSED
- SIGNAL POLE, EXISTING
- TEMPORARY CONSTRUCTION EASEMENT

MAYOR ..... TED BYRD
CITY MANAGER ..... KURT HODGEN
CITY ENGINEER ..... DANIEL J. RUBLEE
DIRECTOR OF PUBLIC WORKS ..... JAMES D. BAKER
DIRECTOR OF PUBLIC UTILITIES ... A. MICHAEL COLLINS



VICINITY SKETCH
SCALE: 1" = 600' +/-

SHEET INDEX

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ISSUED FOR CONSTRUCTION

COMMONWEALTH OF VIRGINIA
THOMAS A. HARTMAN
Lic. No. 047782
4/29/13
PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY

SCALE:	AS SHOWN
DRAWN BY	DATE
DJD	04/29/13
DESIGNED BY	DATE
DJD/TAH	04/29/13
CHECKED BY	DATE
TAH	04/29/13
TAX MAP	

SOUTH MAIN STREET MEDIAN

PUBLIC WORKS DEPARTMENT
CITY OF HARRISONBURG
320 EAST MOSBY ROAD
HARRISONBURG, VIRGINIA

TITLE SHEET

SHEET 1

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STANDARD CITY GENERAL NOTES

ALL NOTES MAY NOT APPLY

1. WORK IN THIS PROJECT SHALL CONFORM TO THE LATEST EDITIONS OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, THE VDOT ROAD AND BRIDGE STANDARDS, THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS AND THE CITY OF HARRISONBURG DESIGN AND CONSTRUCTION STANDARDS MANUAL. IN THE EVENT OF CONFLICT BETWEEN ANY OF THESE STANDARDS, SPECIFICATIONS OR PLANS, THE MOST STRINGENT SHALL GOVERN. ALL UTILITIES TO BE DEDICATED TO THE CITY OF HARRISONBURG MUNICIPAL WATER AND/OR SANITARY SEWER SYSTEM SHALL BE CONSTRUCTED AND TESTED TO CONFORM TO COMMONWEALTH OF VIRGINIA/STATE BOARD OF HEALTH WATERWORKS AND/OR SEWERAGE REGULATIONS AND THE CITY OF HARRISONBURG DESIGN AND CONSTRUCTION STANDARDS MANUAL.

2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.

3. ALL DRAIN INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.

4. WHEN THE CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF ORIGINAL APPLICATION.

5. THE LOCATION OF EXISTING UTILITIES AS SHOWN IS APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL PUBLIC OR PRIVATE UTILITIES WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS EXPENSE, ALL EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION CALL MISS UTILITY 1 (800) 552-7001.

6. ALL UNDERGROUND FACILITIES LOCATED WITHIN THE CITY'S RIGHTS-OF-WAY SHALL BE INSTALLED PRIOR TO THE PLACEMENT OF ANY PART OF THE PAVEMENT STRUCTURE.

7. INSTALLATION OF CONCRETE STORM PIPE SHALL COMPLY WITH VDOT STANDARD DRAWING PB-1.

8. ALL MATERIALS USED FOR FILL OR BACK-FILL SHALL BE FREE OF WOOD, ROOTS, ROCKS, BOULDERS OR ANY OTHER NON-COMPACTIBLE SOIL TYPE MATERIAL. UNSATISFACTORY MATERIALS ALSO INCLUDE MAN-MADE FILLS AND REFUSE DEBRIS DERIVED FROM ANY SOURCE.

9. SATISFACTORY MATERIAL FOR USE AS FILL FOR PUBLIC STREETS INCLUDE MATERIAL CLASSIFIED IN ASTM D-2487 AS GW, GP, GM, GC, SW, SP, SM, SC, ML AND CL GROUPS. THE MOISTURE CONTENT SHALL BE CONTROLLED WITHIN PLUS OR MINUS 2 PERCENTAGE POINTS OF OPTIMUM TO FACILITATE COMPACTION. GENERALLY, UNSATISFACTORY MATERIALS INCLUDE MATERIALS CLASSIFIED IN ASTM D-2487 AS PT, CH, MH, OL, OH, AND ANY SOIL TOO WET TO FACILITATE COMPACTION. CH AND MH SOILS MAY BE USED SUBJECT TO APPROVAL OF THE CITY ENGINEER. SOILS SHALL HAVE A MINIMUM DRY DENSITY OF 92 LB./CU. FT. PER ASTM D-698 AND SHALL HAVE A PLASTICITY INDEX LESS THAN 17.

10. COMPACTION OF FILL MATERIAL UNDER BUILDING SLABS SHALL BE BASED UPON RECOMMENDATIONS OF SOILS ENGINEER AFTER COMPLETION OF STANDARD PROCTOR TEST AND SHALL MEET BEARING REQUIREMENTS OF ARCHITECT OF BUILDINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING.

11. MATERIALS USED TO CONSTRUCT EMBANKMENTS FOR ANY PURPOSE, BACK-FILL AROUND DRAINAGE STRUCTURES OR IN UTILITY TRENCHES OR ANY OTHER DEPRESSION REQUIRING FILL OR BACK-FILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AS SET OUT IN ASTM STANDARD D-698. THE CONTRACTOR SHALL, PRIOR TO ANY OPERATIONS INVOLVING FILLING OR BACK-FILLING SUBMIT THE RESULTS OF THE PROCTOR TEST TOGETHER WITH A CERTIFICATION THAT THE SOIL TESTED IS REPRESENTATIVE OF THE MATERIALS TO BE USED ON THE PROJECT. TESTS SHALL BE CONDUCTED BY A CERTIFIED MATERIALS TESTING LABORATORY AND THE CERTIFICATIONS MADE BY A LICENSED PROFESSIONAL ENGINEER REPRESENTING THE LABORATORY.

12. CERTIFICATIONS FOR MATERIALS INCLUDING, BUT NOT LIMITED TO STONE, CONCRETE, PIPES, PRECAST UNITS, HANDRAILS, STABILIZATION MATS, TRAFFIC SIGNAL ITEMS, MUST BE PROVIDED TO THE CITY'S ON-SITE INSPECTOR AND APPROVED BY THE INSPECTOR PRIOR TO INSTALLATION. SEE INSPECTOR FOR MATERIALS CERTIFICATION CHECKLIST.

13. EMBANKMENT FILL AND TRENCH BACK-FILL SHALL BE PLACED IN LIFTS AT A MAXIMUM UNCOMPACTED DEPTH OF 8-INCHES AND 6-INCHES, RESPECTIVELY. DENSITY TESTS SHALL BE CONDUCTED AT THE FOLLOWING MINIMUM FREQUENCIES:

    (A) EMBANKMENTS FOR ROADS, STREET, DAMS, ETC.;
    ONE TEST PER LIFT PER 10,000 SQUARE FEET OF LIFT.
    (B) BACK-FILL AROUND STRUCTURES AND IN TRENCHES:
    ONE TEST PER LIFT PER 500 LINEAL FEET OF TRENCH.

14. COMPACTION TESTS FOR STREET PAVEMENT STRUCTURE SHALL BE MADE IN CUT AND FILL AREAS AT THE FOLLOWING MINIMUM FREQUENCIES:

    (A) SUB-GRADE: ONE TEST PER LANE PER 500 LINEAL FEET
    (B) STONE BASE: ONE TEST PER LANE PER 6" COMPACTED LIFT PER 500 LINEAL FEET
    (C) HOT ASPHALTIC CONCRETE: ONE TEST PER LANE PER LIFT PER 500 LINEAR FEET

15. ALL EXCAVATIONS, INCLUDING TRENCHES, SHALL BE KEPT DRY TO PROTECT THEIR INTEGRITY.

16. TEST RESULTS SHALL BE SUBMITTED TO THE CITY ENGINEER. FAILURE TO CONDUCT DENSITY TESTS SHALL BE CAUSE FOR NON-ACCEPTANCE OF THE FACILITY. TESTS SHALL BE CONDUCTED AT THE SOLE COST OF THE DEVELOPER OR HIS AGENT.

17. COMBINATION UNDER-DRAINS TYPE CD-1 SHALL BE INSTALLED AT THE LOWER END OF CUT SECTIONS. UNDER-DRAINS TYPE CD-2 SHALL BE INSTALLED AT THE LOW POINT OF ALL VERTICAL CURVES.

18. STANDARD UD-1 AND UD-3 UNDER-DRAINS SHALL BE INSTALLED WHERE INDICATED ON PLANS AND FURTHER WHERE DETERMINED NECESSARY IN THE FIELD BY CITY INSPECTORS.

19. CITY INSPECTORS HAVE FULL AUTHORITY TO REJECT FILL OR BACKFILL MATERIALS, REQUIRE UNDERCUTTING OR SUBGRADE STABILIZATION, REQUIRE PROVISIONS FOR SUB DRAINAGE, OR REQUIRE OTHER MEASURES WHICH AFFECT THE INTEGRITY OF ROAD AND UTILITY CONSTRUCTION FAILURE TO COMPLY WITH INSPECTOR'S DIRECTIVES SHALL BE CAUSE FOR NON-ACCEPTANCE TO THE FACILITY.

20. TRAFFIC CONTROL ON PUBLIC STREETS SHALL BE IN CONFORMANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND AS FURTHER DIRECTED BY CITY INSPECTORS. CITY INSPECTORS MUST BE NOTIFIED 24-HOURS IN ADVANCE OF ANY PLANNED WORK OR ACTIVITY IN CITY RIGHT-OF-WAY THAT REQUIRES FLAGGING, LANE CLOSURE OR STREET CLOSURE. ALL SIGNAGE AND OTHER CONTROL DEVICES SHALL BE IN PLACE BEFORE SUCH ACTIVITIES CAN COMMENCE.

21. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER HIS DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.

22. A PRE CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF THE CONSTRUCTION. THE CONTRACTOR SHALL ARRANGE THE MEETING WITH THE CITY ENGINEER. AT THIS TIME, THE CONTRACTOR SHALL PROVIDE A SCHEDULE AND TRAFFIC CONTROL PLAN FOR WORK WITHIN THE CITY RIGHT-OF-WAY.

23. INSTALL CITY STANDARD STREET CENTERLINE MONUMENTS WHERE REQUIRED FOR NEW STREETS.

24. IF TRAFFIC SIGNAL PLANS HAVE BEEN REVISED OR CHANGED SINCE APPROVAL, THE DEVELOPER MUST PROVIDE TO THE DIRECTOR OF PUBLIC WORKS AS-BUILT DRAWINGS REFLECTING CHANGES. PROVISIONS OF AS-BUILT DRAWINGS IS A CONDITION OF BOND RELEASE.

EROSION & SEDIMENT CONTROL NOTES

ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS. (1996 REVISIONS)

ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

ES-3: SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND ANY OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCES TAKE PLACE.

ES-4: STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

ES-5: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN INCLUDING THE NARRATIVE SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

ES-6: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

ES-7: THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.

ES-8: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

ES-9: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.

ES-10: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

ES-11: PERMANENT OR TEMPORARY SOIL STABILIZATIONS SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE A FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED FOR LONGER THAN 30 DAYS). PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

ES-12: A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT, IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.

ES-13: DURING CONSTRUCTION OF THE PROJECT SOIL STOCK PILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES.

ES-14: CUT AND FILL SLOPES SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OR PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.

ES-15: ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

ES-16: BEFORE NEWLY CONSTRUCTED STORM WATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONS, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.

ES-17: WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS

ES-18: WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN A SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.

ES-19: THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETE.

ES-20: 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 MAY BE OPENED AT ONE TIME.
B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL 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 OF 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.

ES-21: WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROAD BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

ES-22: ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM ADMINISTRATOR. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS THE CONSTRUCTION OF A RAISED LANDSCAPED MEDIAN IN SOUTH MAIN STREET, AND THE RELOCATION OF SIDEWALK ALONG SOUTH MAIN STREET.

EXISTING SITE CONDITIONS

THE EXISTING SITE IS SOUTH MAIN STREET AND THE GRASSED AREA IN FRONT OF ANTHONY SEEGER HALL.

ADJACENT PROPERTY

THE SITE IS BOUNDED BY CITY OF HARRISONBURG RIGHT OF WAY AND JAMES MADISON UNIVERSITY (JMU).

CRITICAL EROSION AREAS

ALL 3:1 SLOPES AND STEEPER AND DITCHES SHALL BE CONSIDERED CRITICAL EROSION AREAS. THESE AREAS SHALL BE MONITORED DAILY AND AFTER EACH SUFFICIENT RAIN FALL. THE LOCAL GOVERNING AUTHORITY WILL HAVE THE AUTHORITY TO RECOMMEND THE PLACEMENT OF ADDITIONAL EROSION CONTROL MEASURES IN THIS AREA IF IT BECOMES EVIDENT DURING CONSTRUCTION THAT THE ONES IN PLACE ARE NOT FUNCTIONING SUFFICIENTLY.

EROSION AND SEDIMENT CONTROL MEASURES

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE HANDBOOK. THE MINIMUM STANDARDS OF THE VESCH SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE.

STRUCTURAL PRACTICES

SILT FENCE (3.05): WILL BE CONSTRUCTED AS SHOWN ON THE PLANS.

INLET PROTECTION (3.07): WILL BE CONSTRUCTED AS SHOWN ON THE PLANS.

TREE PROTECTION (3.38): WILL BE CONSTRUCTED AS SHOWN ON THE PLANS.

PERMANENT SEEDING (3.32): WILL BE CONSTRUCTED AS SHOWN ON THE PLANS.

MULCHING (3.35): WILL BE CONSTRUCTED AS SHOWN ON THE PLANS.

TOPSOILING (3.30): WILL BE CONSTRUCTED AS SHOWN ON THE PLANS.

VEGETATIVE PRACTICES

TOP SOILING: TOPSOIL WILL BE STRIPPED FROM THE SITE AND STOCKPILED IN AN AREA DETERMINED IN THE FIELD. UPON THE COMPLETION OF THE PROJECT TOPSOIL WILL BE PLACED ON ALL DISTURBED AREAS AT A MINIMUM DEPTH OF 4 INCHES.
TEMPORARY SEEDING: ALL DENUDED AREAS LEFT DORMANT FOR MORE THAN 30 DAYS SHALL BE SEEDED WITH A FAST GERMINATING SEED. TEMPORARY VEGETATION. THE TIME OF YEAR WILL BE THE BASIS FOR THE SEED MIXTURE.
PERMANENT SEEDING: ALL SEEDED AREAS WILL BE RESEEDED, MULCHED AND FERTILIZED AS NEEDED TO OBTAIN AN ADEQUATE STAND OF GRASS.

MANAGEMENT STRATEGIES

CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS WILL BEGIN AND END AS SOON AS POSSIBLE. THE JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES. AFTER ACHIEVING ADEQUATE STABILIZATION, AND IN THE OPINION OF THE LOCAL E&S ADMINISTRATOR, THE TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED AND ANY AREAS DISTURBED DURING THIS PROCESS SHALL BE STABILIZED.

PERMANENT STABILIZATION

ALL AREAS LEFT UNCOVERED BY EITHER BUILDINGS OR PAVEMENT SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. SEEDING SHALL BE DONE IN ACCORDANCE WITH THE VESCH. ANY ALTERATIONS FROM THIS DOCUMENT SHALL BE APPROVED BY THE LOCAL EROSION CONTROL ADMINISTRATOR.

MAINTENANCE

ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. THEY WILL BE INSPECTED FOR UNDERMINING, DETERIORATION, EROSION AND EXCESS DEPOSITED MATERIAL. ALL DEFICIENCIES WILL BE CORRECTED IMMEDIATELY. EXCESS MATERIAL WILL BE SPREAD ON THE SITE IN A MANNER WHERE IT IS NOT LIKELY TO ERODE IN THE FUTURE.

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF VIRGINIA
THOMAS A. HARTMAN
Lic. No. 047782
4/24/13
PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY

SCALE:	NTS
DRAWN BY	DATE
DJD	04/29/13
DESIGNED BY	DATE
DJD/TAH	04/29/13
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TAH	04/29/13
TAX MAP	

SOUTH MAIN STREET MEDIAN

PUBLIC WORKS DEPARTMENT
CITY OF HARRISONBURG
320 EAST MOSBY ROAD
HARRISONBURG, VIRGINIA

GENERAL NOTES

SHEET 2

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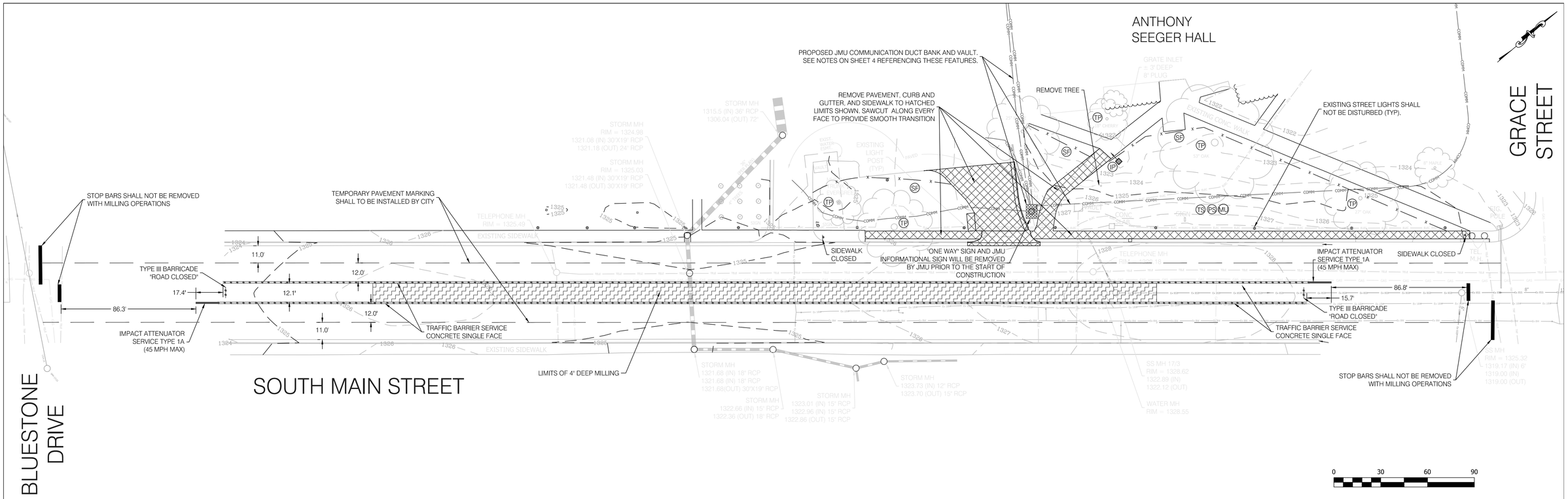

SEQUENCE OF CONSTRUCTION

1. FULL WIDTH MILL SOUTH MAIN STREET TO A DEPTH OF 2", FROM GRACE STREET TO BLUESTONE TRAIL, EXCLUDING AREA THAT IS TO HAVE MEDIAN CONSTRUCTED. MILLING TO START INSIDE EXISTING STOP BARS. THE AREA OF THE CENTER TURNLANE (HATCHED ON PLAN SHEET) THAT IS TO HAVE THE MEDIAN CONSTRUCTED ON SHALL BE MILLED TO A DEPTH OF 4" PER THE TYPICAL SECTION SHOWN ON SHEET 5.
2. CITY OF HARRISONBURG WILL PROVIDE TEMPORARY MARKINGS IN THIS AREA. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR TEMPORARY PAVEMENT MARKING PLACEMENT.
3. INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES BEFORE ANY LAND DISTURBANCE BEGINS.
4. INSTALL TEMPORARY CENTER LANE CLOSURE PER TTC - 21 IN THE VIRGINIA WORK ARE PROTECTION MANUAL.
5. CONSTRUCT LANDSCAPED MEDIAN INCLUDING FENCE AND NEW 7' WIDE SIDEWALK INCLUDING FENCE.
6. ALL DISTURBED AREAS NOT PAVED OR BUILT UPON SHALL BE SEEDED, MULCHED AND FERTILIZED. PERFORM PERMANENT TOP SOILING, SEEDING, LANDSCAPING, FERTILIZING, AND MULCHING AS SOON AFTER FINISH GRADING AS POSSIBLE.

TRAFFIC CONTROL NOTES:

1. ALL SIGNS, SIGN LAYOUTS, WORK ZONES AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITIONS OF THE VIRGINIA WORK AREA PROTECTION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE VIRGINIA SUPPLEMENT TO THE MUTCD, VDOT ROAD AND BRIDGE STANDARDS AND VDOT ROAD AND BRIDGE SPECIFICATIONS.
2. ALL CONSTRUCTION SIGNS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING FURNISHING, INSTALLING, ADJUSTING, MAINTAINING, AND REMOVING THE SIGNS AND POSTS PER THE SPECIFICATIONS AND STANDARD DETAILS, AND SHALL BE INCLUDED IN THE PRICE BID FOR CONSTRUCTION SIGNS.
3. CENTER LANE CLOSURES, OUTSIDE LANE CLOSURES, AND INSIDE LANE CLOSURES SHALL BE INSTALL PER TTC-20, TTC-16, AND TTC-17 RESPECTIVELY, AS FOUND IN THE VIRGINIA WORK AREA PROTECTION MANUAL.

DEMOLITION NOTES:

1. THE COST OF REMOVAL OF ALL EXISTING ITEMS LOCATED IN THE AREA TO BE GRADED INCLUDING, BUT NOT LIMITED TO THE FOLLOWING, SHALL BE INCLUDED IN THE PRICE BID FOR REGULAR EXCAVATION: SIDEWALK, CURB & GUTTER, CONCRETE ENTRANCES, ASPHALT, TREES, AND SIGNS.
2. THE BID UNIT PRICE FOR MILLING SHALL INCLUDE ALL ASPHALT REQUIRED TO PROPERLY WEDGE EXISTING MANHOLES, VALVE BOXES, ETC LOCATED WITHIN THE MILLED SECTION OF SOUTH MAIN STREET.
3. CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM JMU PRIOR TO THE START OF CONSTRUCTION. CONTACT JACK MARTIN 540-568-3482 FOR EXCAVATION PERMIT.

EROSION AND SEDIMENT CONTROL LEGEND

3.05	SILT FENCE	SF
3.07	STORM DRAIN INLET PROTECTION	IP
3.38	TREE PRESERVATION & PROTECTION	TP
3.30	TOPSOILING	TS
3.32	PERMANENT SEEDING	PS
3.35	MULCHING	MU

ALL STANDARDS PER THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK

1992 3.35

TABLE 3.35-A
ORGANIC MULCH MATERIALS AND APPLICATION RATES

MULCHES:	RATES: Per Acre	RATES: Per 1000 sq. ft.	NOTES:
Straw or Hay	1½ - 2 tons (Minimum 2 tons for winter cover)	70 - 90 lbs.	Free from weeds and coarse matter. Must be anchored. Spread with mulch blower or by hand.
Fiber Mulch	Minimum 1500 lbs.	35 lbs.	Do not use as mulch for winter cover or during hot, dry periods.* Apply on slurry.
Corn Stalks	4 - 6 tons	185 - 275 lbs.	Cut or shredded in 4-6" lengths. Air-dried. Do not use in fine turf areas. Apply with mulch blower or by hand.
Wood Chips	4 - 6 tons	185 - 275 lbs.	Free of coarse matter. Air-dried. Treat with 12 lbs nitrogen per ton. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.
Bark Chips or Shredded Bark	50 - 70 cu. yds.	1-2 cu. yds.	Free of coarse matter. Air-dried. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.

* When fiber mulch is the only available mulch during periods when straw should be used, apply at a minimum rate of 2000 lbs./ac. or 45 lbs./1000 sq. ft.

Source: Va. DSWC

III - 353

1992 3.32

APPENDIX 3.32-if

TABLE 3.32-F
LBS. OF GROUND AGRICULTURAL LIMESTONE* PER THOUSAND SQUARE FEET NEEDED TO CORRECT pH LEVEL OF ACID SOILS TO 6.5

Existing pH:	Soil Texture: Sandy Loam	Loam	Clay Loam
6.2	20	35	40
6.0	40	55	80
5.8	70	85	85
5.6	30	80	105
5.4	90	100	125
5.2	105	120	140
5.0	120	140	160
4.8	125	180	205
4.6	155	210	230
4.0	200	250	300

* Lime should always be applied in accordance with the results of a soil test, such as may be obtained through the soil testing laboratory at VPI&SU or through a reputable commercial laboratory.

Source: DSWC's Basic Urban E&S in Virginia

III - 331(A)

1992 3.32

TABLE 3.32-C
SITE SPECIFIC SEEDING MIXTURES FOR APPALACHIAN/MOUNTAIN AREA

	Total Lbs. Per Acre
Minimum Care Lawn	
- Commercial or Residential	200-250 lbs.
- Kentucky 31 or Turf-Type Tall Fescue	90-100%
- Improved Perennial Ryegrass *	0-10%
- Kentucky Bluegrass	0-10%
High-Maintenance Lawn	
Minimum of three (3) up to five (5) varieties of bluegrass from approved list for use in Virginia.	125 lbs.
General Slope (3:1 or less)	
- Kentucky 31 Fescue	128 lbs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop **	20 lbs.
	150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	
- Kentucky 31 Fescue	108 lbs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop **	20 lbs.
- Crownvetch ***	20 lbs.
	150 lbs.

* Perennial Ryegrass will germinate faster and at lower soil temperatures than fescue, thereby providing cover and erosion resistance for seedbed.

** Use seasonal nurse crop in accordance with seeding dates as stated below:
March, April through May 15th . . . . . Annual Rye
May 16th through August 15th . . . . . Foxtail Millet
August 16th through September, October . . . . . Annual Rye
November through February . . . . . Winter Rye

*** If Flatpea is used, increase to 30 lbs./acre. All legume seed must be properly inoculated. Weeping Lovegrass may also be included in any slope or low-maintenance mixture during warmer seeding periods; add 10-20 lbs/acre in mixes.

III - 302

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF VIRGINIA
THOMAS A. HARTMAN
Lic. No. 047782
4/29/13
PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY

SCALE: HORZ. 1" = 30'	
DRAWN BY	DATE
DJD	04/29/13
DESIGNED BY	DATE
DJD/TAH	04/29/13
CHECKED BY	DATE
TAH	04/29/13
TAX MAP	

SOUTH MAIN STREET MEDIAN

PUBLIC WORKS DEPARTMENT
CITY OF HARRISONBURG
320 EAST MOSBY ROAD
HARRISONBURG, VIRGINIA

TRAFFIC CONTROL AND EROSION AND SEDIMENT CONTROL PLAN

SHEET 3

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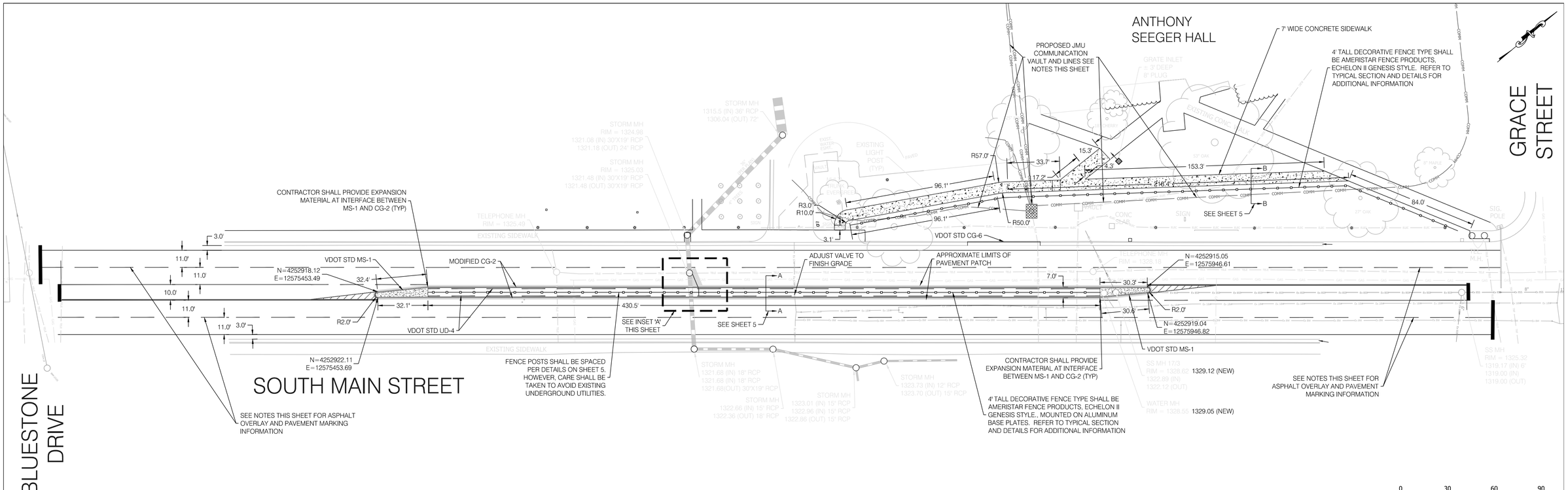
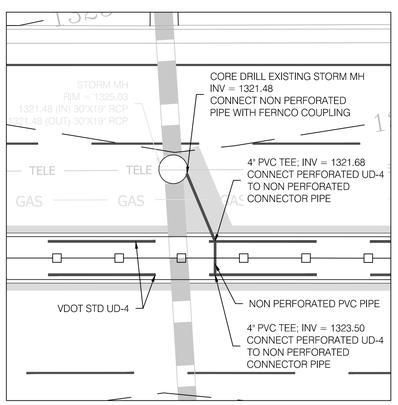
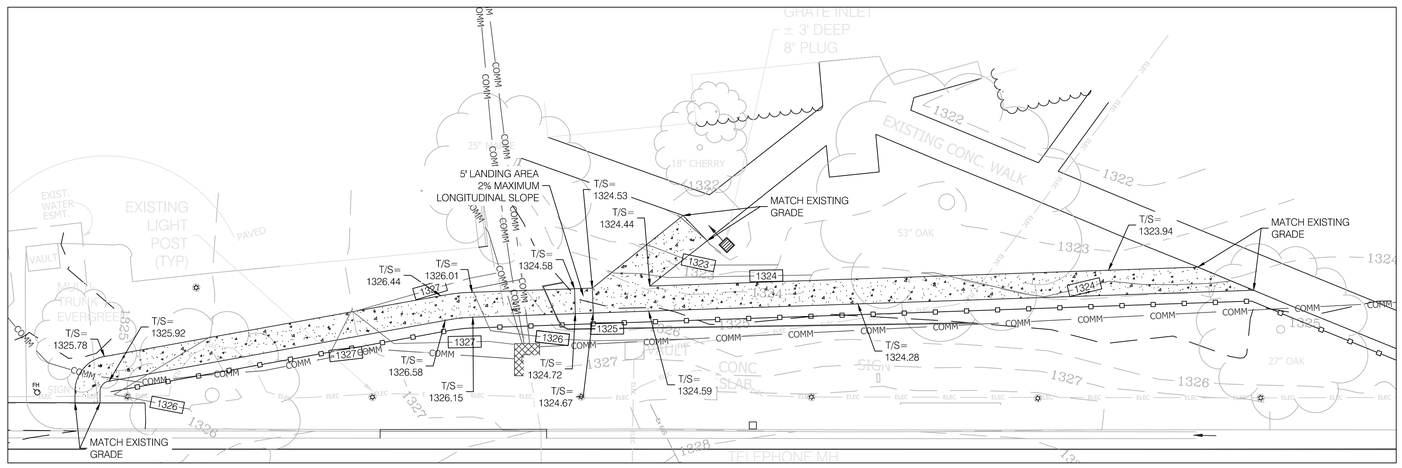




INSET 'A'
1" = 10'

INSET NOTES:

1. CONTRACTOR SHALL VERIFY DEPTH OF GAS AND TELEPHONE LINES PRIOR TO INSTALLATION OF UD-4 AND CONNECTING NON PERFORATED PIPE AS SHOWN ABOVE. THIS IS TO CONFIRM THAT THE INVERTS PROVIDED WILL NOT RESULT IN A CONFLICT WITH THE GAS OR TELEPHONE LINES. CONTACT ENGINEER IF A CONFLICT IS PRESENT.
2. THE UD-4 COST SHALL INCLUDE ALL NON PERFORATED PIPE AND FITTINGS.



SIDEWALK GRADING PLAN
1" = 20'

SITE NOTES:

1. PROPOSED JMU COMMUNICATION VAULT AND COMMUNICATION DUCT BANK ARE SHOWN IN THE DESIGNED LOCATION. ADJUSTMENTS TO THE ACTUAL ALIGNMENT ARE EXPECTED AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING, WITH JMU, THE EXACT LOCATION OF THESE FACILITIES PRIOR TO STARTING SIDEWALK CONSTRUCTION. CONSTRUCTION OF THESE FACILITIES IS PLANNED TO BEGIN PRIOR TO THE START OF SIDEWALK CONSTRUCTION.
2. CONTRACTOR SHALL REFER THE DUCT BANK TYPICAL SECTIONS PROVIDED ON THESE PLANS FOR PROPOSED DEPTHS OF DUCT BANK.
3. ASPHALT OVERLAY AND PERMANENT PAVEMENT MARKINGS WILL BE PERFORMED BY THE CITY FOLLOWING COMPLETION OF THE PROJECT. THE ENGINEER OR CITY INSPECTOR WILL COORDINATE WITH THE PUBLIC WORKS DEPARTMENT ON THE PROGRESS OF CONSTRUCTION AND THE SCHEDULING OF THIS WORK.
4. ALL AREAS NOT BUILT UPON WILL BE SEEDED AND MULCHED PER THE REQUIREMENTS OF THIS PLAN. ALL LANDSCAPING WILL BE THE RESPONSIBILITY OF JMU AND WILL BE INSTALLED FOLLOWING COMPLETION OF EACH SECTION OF THIS PROJECT. THE ENGINEER OR CITY INSPECTOR WILL NOTIFY JMU WHEN EACH AREA IS COMPLETED AND READY FOR LANDSCAPING.

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF VIRGINIA
THOMAS A. HARTMAN
Lic. No. 047782
4/29/13
PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY

SCALE:	AS NOTED
DRAWN BY	DATE
DJD	04/29/13
DESIGNED BY	DATE
DJD/TAH	04/29/13
CHECKED BY	DATE
TAH	04/29/13
TAX MAP	

SOUTH MAIN STREET MEDIAN

PUBLIC WORKS DEPARTMENT
CITY OF HARRISONBURG
320 EAST MOSBY ROAD
HARRISONBURG, VIRGINIA

MEDIAN AND SIDEWALK PLAN

SHEET 4

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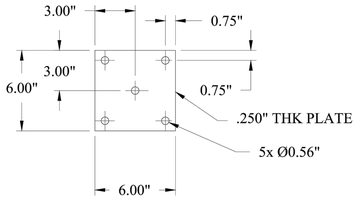

Drawing Number: 8864	Title: 6" x 6" x ¼" W/ 9/16" DIA HOLES, ALUMINUM PLATE		
Existing Number: 8864			
DR: RTM	SH. 1of 1	SCALE: 1/4" = 1"	
CK: DG	Date 3/29/06		

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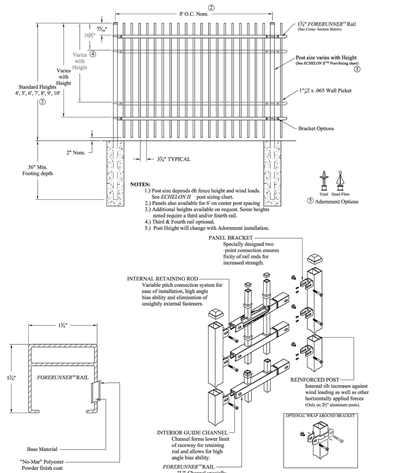
Rev	By	Decription	CHK	Date
a	RTM	Original drawing		
b	RTM	Added note, Aluminum Plate	CH	7/27/06

Unless noted Otherwise

.x	Decimal	± .030
.xx	Decimal	± .015
.xxx	Decimal	± .005
.xxxx	Decimal	± .0005
	Angular	± 0.5°

DO NOT SCALE OFF DRAWING



NOTES:
1.) Post size depends ON fence height and wind loads. See ECHELON II post sizing chart.
2.) Panels also available for 6' on center post spacing
3.) Additional heights available on request. Some heights noted require a third and/or fourth rail.
4.) Third & Fourth rail optional.
5.) Post Height will change with Adornment installation.

INDUSTRIAL STRENGTH ALUMINUM

ECHELON II GENESIS 2/3/4-RAIL			
DR: NJB	SH. 1of 1	SCALE: DO NOT SCALE	
CK: BS	Date 2-07-12		REV: f

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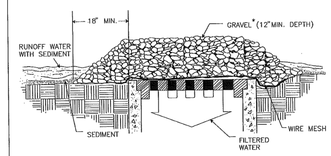
1992 3.07

GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER



SPECIFIC APPLICATION

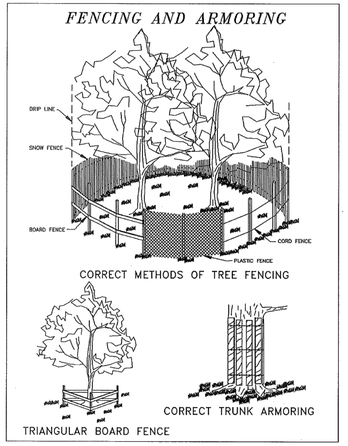
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

* GRAVEL SHALL BE VDOT #3, #357 OR #5 COARSE AGGREGATE.

Source: Va. DSWC Plate 3.07-2

1992 3.38

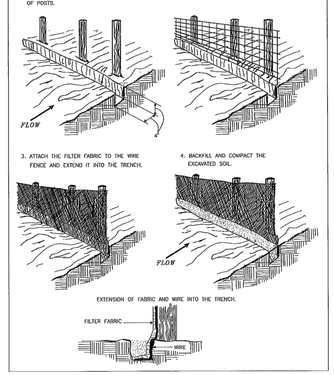
FENCING AND ARMORING



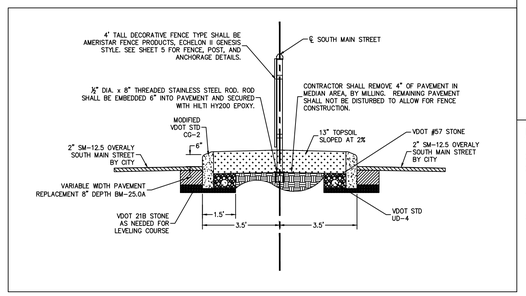
Source: Va. DSWC Plate 3.38-2

1992 3.05

CONSTRUCTION OF A SILT FENCE (WITH WIRE SUPPORT)

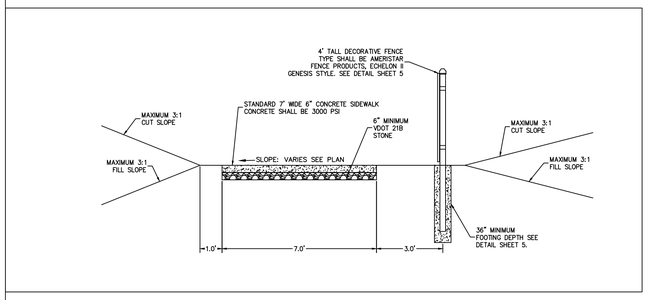


Source: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, Sherwood and Wyant Plate 3.05-1

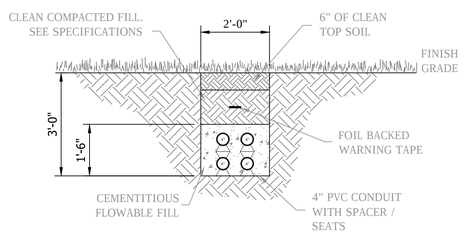


TYPICAL MEDIAN SECTION A-A
NTS

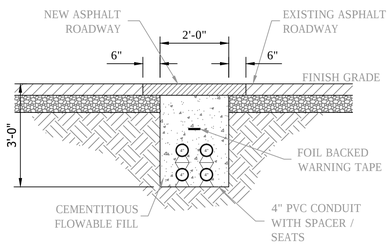
FENCE NOTES:
1. FENCE SHALL BE ECHELON II GENESIS STYLE, 4' HEIGHT, PER DETAIL ABOVE.
2. NO ADORNMENT OPTIONS ARE REQUIRED FOR THIS PROJECT.
3. FENCE PLACED IN MEDIAN AREA SHALL BE INSTALLED USING BASEPLATE DETAIL THIS SHEET.
4. FENCE INSTALLED IN GRASS AREA SHALL HAVE CONCRETE FOUNDATION MINIMUM 36" DEEP AS SHOWN ABOVE.
5. 2" NOMINAL BOTTOM CLEARANCE DIMENSION SHALL BE MEASURED FROM THE TOP OF LANDSCAPED AREA.



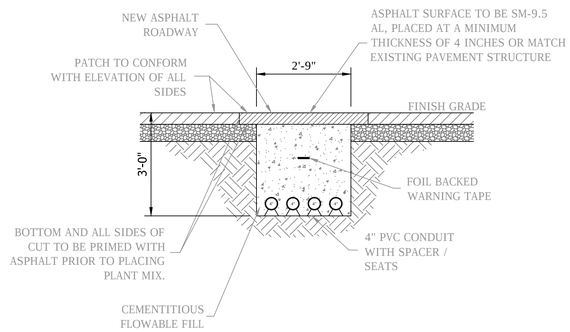
TYPICAL SIDEWALK SECTION B-B
NTS



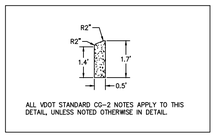
TRENCHING SECTION - GRASSY AREA
NTS



TRENCHING SECTION - ASPHALT AREA
NTS



TRENCHING SECTION - AVOIDING UTILITY CONFLICT
NTS



MODIFIED VDOT STD CG-2
NTS

DUCT BANK NOTES:

1. THESE DETAILS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. A SEPARATE CONTRACT ADMINISTERED BY JMU WILL BE USED TO INSTALL THE DUCT BANKS AND ALL OTHER ASSOCIATED ITEMS.

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF VIRGINIA
THOMAS A. HARTMAN
Lic. No. 047782
4/29/13
PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY

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DJD	04/29/13
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DJD/TAH	04/29/13
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TAX MAP	

SOUTH MAIN STREET MEDIAN

PUBLIC WORKS DEPARTMENT
CITY OF HARRISONBURG
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DETAILS

SHEET 5

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