SOIL EROSION CONTROL NARRATIVE CONSTRUCTION SEQUENCING — SITE SPECIFIC PRIOR TO ANY SITEWORK, SOIL EROSION CONTROL BARRIERS AND CONSTRUCTION THE PURPOSE OF THIS PROJECT IS THE CONSTRUCTION OF A NEW CHAPEL FACILITY AND ASSOCIATED SITE IMPROVEMENTS FOR THE SEVENTH DAY ADVENTIST REFORM MOVEMENT, GENERAL CONFERENCE. THE SITE LIES ATOP A NATURAL EAST—WEST DRAINAGE DIVIDE. APPROXIMATELY ONE—THIRD OF THE SITE DRAINS EASTERLY TO THE PUBLIC STORM DRAINAGE SYSTEM ON THE WESTERN SIDE OF HOLLINS ROAD, NE. THE SITE DRAINS WESTERLY OVERLAND, WHERE IT DRAINS THROUGH AN EXISTING STORMWATER MANAGEMENT POND WHICH APPEARS TO HAVE BEEN CONSTRUCTED SOLELY FOR REDUCTION OF PEAK RUNOFF FOR CONSTRUCTION OF EXISTING SITE IMPROVEMENTS. THE SITE IS ENTRANCE SHOWN HEREIN SHALL BE INSTALLED. LOCATED ON THE WESTERN SIDE OF HOLLINS ROAD IN THE HOLLINS MAGISTERIAL DISTRICT OF THE COUNTY OF ROANOKE, VIRGINIA, THE AREA OF LAND DISTURBANCE IS ESTIMATED TO BE 2.73 ACRES ((119,130 SQ. FT.)). CONTRACTOR SHALL PERFORM SELECTIVE DEMOLITION OF EXISTING FOLIAGE WITHIN THE LIMITS OF CONSTRUCTION. ALL VEGETATED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL THE SITE IS CURRENTLY HAY FIELDS WITH MIXED BRUSH AND WOODS ALONG THE EASTERN SITE BOUNDARIES, AND DRAINS AS DESCRIBED ABOVE. THE SUBJECT SITE LIES WITHIN "ZONE "AE" AS SHOWN ON FEMA FLOOD INSURANCE RATE MAPS (FIRM MAP NUMBER 51161C0158G, EFFECTIVE DATE 09/28/2007). RULES AND REGULATIONS PERTAINING THERETO. CONTRACTOR SHALL CONSTRUCT NEW TEMPORARY SEDIMENT TRAP AND TEMPORARY THE USDA SOIL SURVEY FOR ROANOKE COUNTY, VIRGINIA IDENTIFIES THE SOILS IN THE AREA OF PROPOSED CONSTRUCTION AS BELONGING TO THE FOLLOWING SOIL UNIT GROUPS, AND PROVIDES THE SPECIFIC SOIL CHARACTERISTICS INDICATED. SEE SHEETS C-07 AND C-08 FOR SOIL BOUNDARIES. A LIMITED SCOPE GEOTECHNICAL INVESTIGATION HAS BEEN PERFORMED ON THE SITE, AND STATES THAT THE GEOLOGY IS INDICATED. DIVERSION DIKES AS SHOWN ON PLANS AS A FIRST STEP IN THE LAND KARST FORMATIONS. SEE SHEET C-10 FOR REFERENCE TO SITE SPECIFIC SOILS INVESTIGATION. DISTURBANCE, TO INTERCEPT RUNOF FROM THE WESTERN PORTION OF THE SITE AND UNIT CODE NAME CHARACTERISTICS 1 1 2 2 DRAINAGE CLASS DEPTH TO BEDROCK EROSION POTENTIAL DEPTH TO SEASONAL HIGH WATER HYDROLOGIC SOIL GROUP PROTECT DOWN-GRADIENT AREAS FROM SEDIMENTATION. FREDERICK SILT LOAM, 2-8% SLOPES > 80 INCHES SILTY LOAM AND CLAY WELL-DRAINED >80 INCHES MODERATE CONTRACTOR SHALL STRIP AND STOCKPILE TOPSOIL AS NECESSARY FOR A 6" MODERATE FREDERICK SILT LOAM, 8-15% SLOPES > 80 INCHES SILTY LOAM AND CLAY WELL-DRAINED >80 INCHES REPLACEMENT ON AREAS OF DISTURBANCE NOT TO RECEIVE HARD SURFACING OR WELL-DRAINED > 80 INCHES FREDERICK SILT LOAM, 15-25% SLOPES SILTY LOAM AND CLAY >80 INCHES MODERATE 1*8*D SAND FILTER, AND FOR THE ADDITIONAL TOPSOIL REQUIRED IN THE SEDIMENTATION CELL AND FOREBAY OF THE SAND FILTER. STOCKPILES SHALL BE WITHIN THE LIMITS ADJACENT PROPERTY: ALL AREAS IN THE NEAR VICINITY OF PROPOSED CONSTRUCTION ARE UNDER THE OWNERSHIP OF SEVENTH DAY ADVENTIST REFORM MOVEMENT, GENERAL ASSEMBLY, SEE SHEETS C-05 AND C-06 FOR ADJOINING PROPERTY OWNERS. OF DISTURBANCE SHOWN HEREON, SHALL BE PROTECTED BY PERIMETER SILT FENCE AND TEMPORARY SEEDING, AS APPLICABLE FOR THE LIFE SPAN OF THE STOCKPILE. ALL EXCESS TOPSOIL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE IT IS ESTIMATED THAT THIS PROJECT WILL GENERATE APPROXIMATELY 1,000 CUBIC YARDS OF EXCESS TOPSOIL AND APPROXIMATELY 2065 CUBIC YARDS OF EXCESS TOPSOIL AND APPROXIMATELY 2065 CUBIC YARDS OF EXCESS TOPSOIL AND APPROXIMATELY 2065 CUBIC YARDS OF EXCESS TOPSOIL AND APPROXIMATELY 1,000 CUBIC YARDS OF EXCESS TOPSOIL AND APPROXIMATELY 2065 CUBIC YARDS OF E CONTRACTOR, UNLESS OTHER AGREEMENTS HAVE BEEN MADE IN WRITING WITH THE REQUIRED FOR THIS AREA. THE COUNTY OF ROANOKE OR ITS APPROVED AGENT RESERVES THE RIGHT TO PLACE A STOP WORK ORDER ON THE SUBJECT SITE AND ANY OFF-SITE WASTE AREAS, SHOULD APPROVED PLANS AND PERMITS NOT EXIST FOR ALL SITES. (THE APPROVAL AUTHORITY CONSIDERS AREAS WHERE THE NEW WATER, SEWER AND STORM DRAIN LINES CROSS PARCEL 039.05-01-04.00 AND THE RIGHT OF WAY OF HOLLINS ROAD TO BE OFF-SITE AREAS, THOUGH PERMITTED UNDER THIS PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS, THOUGH PERMITTED UNDER THIS PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS, THOUGH PERMITTED UNDER THIS PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS, THOUGH PERMITTED UNDER THIS PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS, THOUGH PERMITTED UNDER THIS PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS, THOUGH PERMITTED UNDER THIS PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS, THOUGH PERMITTED UNDER THIS PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS, THOUGH PERMITTED UNDER THIS PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS, THOUGH PERMITTED UNDER THIS PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS, THOUGH PERMITTED UNDER THIS PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS, THOUGH PERMITTED UNDER THIS PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS, THOUGH PERMITTED UNDER THIS PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS, THOUGH PERMITTED UNDER THIS PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS, THOUGH PERMITTED UNDER THIS PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS ARE PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS ARE PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS ARE PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS ARE PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS ARE PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS ARE PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS ARE PROJECT. THE CONTRACTOR SHALL ENSURE ALL OFF-SITE AREAS ARE PROJECT. A SUBSURFACE INVESTIGATION WAS PREPARED BY GEOTECHNICS, INC. OF ROANOKE, THESE PLANS. ANY SEDIMENT FROM THE PROPOSED DEVELOPMENT THAT ENCROACHES OUTSIDE THE LIMITS OF CONSTRUCTION OR ONTO ADJACENT PROPERTIES SHALL BE IMMEDIATELY REMOVED AND THE AFFECTED AREAS RESTORED TO PRE-CONSTRUCTION CONDITIONS OR BETTER, IN ACCORDANCE WITH THESE PLANS. VIRGINIA (REF: GEOTECHNICS COMMISSION NO. 4605, DATED 22 AUGUST, 2014). THE CONTRACTOR IS REQUIRED TO OBTAIN A COPY OF THIS REPORT AND FOLLOW RECOMMENDATIONS, PARTICULARLY RELATIVE TO ALLOWABLE RE-USE OF EXISTING THE FOLLOWING AREAS HAVE THE POTENTIAL FOR SERIOUS SOIL EROSION OR WARRANT ADDITIONAL ATTENTION BY THE CONTRACTOR, THE CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO WORK IN AND STABILIZATION OF THESE AREAS: - RELATIVELY STEEP SLOPE BETWEEN THE PROPOSED BUILDING AND TINY TRAIL / HOLLINS ROAD. STABILIZE IMMEDIATELY UPON COMPLETION OF UTILITY AND STORM DRAIN INSTALLATION. SOILS IN AREAS OF FOUNDATION BACKFILL. - NEW RIP—RAP LINED CHANNEL DRAINING INTO EXISTING STORMWATER MANAGEMENT POND. CONSTRUCT CONCURRENTLY WITH INSTALLATION OF NEW CONTRIBUTING STORM DRAINAGE SYSTEMS. UNLESS OTHERWISE DIRECTED BY THE OWNER, ALL WORK PERFORMED IS - THE GEOTECHNICAL REPORT REFERENCED ON C-10 STATES THAT THE SITE IS INDICATIVE OF KARST FORMATIONS. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY AREAS SHOWING SIGNS OF SINKHOLE FORMATION OR OTHER KARST RELATED CONCERNS. UNCLASSIFIED. AND THE CONTRACTOR IS REQUIRED TO PERFORM CUT / FILL EROSION AND SEDIMENT CONTROL MEASURES: OPERATIONS NECESSARY TO PERFORM HIS TRADE, INCLUDING DISPOSAL OF EXCESS UNILESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK", THIRD EDITION. MATERIALS OR IMPORTING MATERIAL FROM OFF-SITE SOURCES. 1. REGARDLESS OF FUTURE DEVELOPMENT PLANS, THE CONTRACTOR SHALL IMMEDIATELY INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS, THIS WORK SHALL BE COORDINATED IN ORDER TO PROTECT AREAS FROM THE WORK WHICH IS TO FOLLOW, CONTROL AT CONTRACTOR SHALL CONCURRENTLY PERFORM ROUGH GRADING OPERATIONS AND CENTERS OF FLOW AND OTHER POINTS OF CONCENTRATION SHOWN HEREIN SHALL BE CONSTRUCTED FIRST. INSTALLATION OF NEW STORM DRAINAGE SYSTEMS, PROTECTING POINTS OF STORM 2. FOLLOWING INSTALLATION OF THE PERIMETER CONTROLS, THE SITEWORK CONTRACTOR SHALL BEGIN EARTHWORK OPERATIONS. THE STEWORK CONTRACTOR SHALL BEGIN EARTHWORK OPERATIONS. THE STEWORK CONTRACTOR SHALL BEGIN EARTHWORK OPERATIONS. THE STEWORK CONTRACTOR SHALL BEGIN EARTHWORK OPERATIONS. THE CONTRACTOR SHALL BEGIN EARTHWORK OPERATIONS. THE CONTRACTOR SHALL BEGIN EARTHWORK OPERATIONS. THE STEWORK CONTRACTOR SHALL BEGIN EARTHWORK OPERATIONS. THE STEWORK CONTRACTOR SHALL BEGIN EARTHWORK OPERATIONS. THE CONTRACTOR SHALL BEGIN EARTHWORK OPERATIONS. DRAIN COLLECTION FROM INFILTRATION OF SEDIMENT. ALSO AT THIS TIME, THE ACCORDANCE WITH THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK", THIRD EDITION. CONTRACTOR MAY PROCEED WITH INSTALLATION OF THE NEW SANITARY SEWER, 3. IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL. IN PARTICULAR: DOMESTIC WATER, AND FIRE HYDRANT SUPPLY LINES. A. THE CONSTRUCTION ENTRANCE (STD & SPEC 3.02) SHALL BE MAINTAINED IN A CONDITION TO PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAYS. IT IS ANTICIPATED THAT EXCAVATION FOR THE BUILDING PAD WILL BE OF PRIME B. ALL SILT FENCE BARRIERS (STD & SPEC 3.05) SHALL BE CHECKED REGULARLY FOR UNDERMINING AND SEDIMENT BUILDUP. C. INLET PROTECTION MEASURES SHALL BE INSPECTED TO INSURE FILTRATION MEASURES ARE EFFECTIVE, AND ARE NOT CHOKED WITH SILT. CLEAN AS NECESSARY TO PREVENT EXCESSIVE PONDING. IMPORTANCE, AND WILL THEREFORE BE COMPLETED AS A FIRST STEP IN THE ROUGH D. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEEDED AS NEEDED, EARTHWORK CONSTRUCTION. SEE BUILDING PLANS FOR SLAB / STONE THICKNESS TO 4. THE SOIL EROSION CONTROL MEASURES INSTALLED FOR THIS CONTRACT SHALL REMAIN IN PLACE UNTIL REMOVAL IS APPROVED BY THE COUNTY OF ROANOKE INSPECTOR, AT WHICH TIME IT SHALL BE THE SITE WORK CONTRACT SHALL DISTURBED AREAS IN ACCORDANCE WITH THESE PLANS. DEFINE DEPTH TO BUILDING SUBGRADE. MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES: IN THE AREA OF THE NEW WATER QUALITY DRY SWALES AND SAND FILTER. THE - SILT FENCE BARRIERS SHALL BE INSPECTED DAILY AND CLEANED OR REPLACED AS REQUIRED. CLEAN SILT FENCE WHEN SILT MEASURES ONE-HALF THE HEIGHT OF THE FENCE, OR AS REQUIRED. CONTRACTOR SHALL PERFORM ONLY ROUGH GRADING NECESSARY TO CONVEY FLOWS - STORM DRAIN COLLECTION POINTS SHALL BE PROTECTED USING INLET PROTECTION MEASURES AS OUTLINED HEREIN. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF EXCESS SEDIMENT FROM THE STORM DRAIN STRUCTURES AT ALL TIMES UNTIL THE PROJECT IS COMPLETED AND TURNED OVER TO OWNER. TO THE EXISTING POND, WHICH CONVEYS RUNOFF FROM THE SITE. OVEREXCAVATION - EXISTING AND PROPOSED SLOPES SHALL BE PROTECTED FROM EROSION. UNDER NO CIRCUMSTANCES SHALL CONCENTRATED RUNOFF BE ALLOWED TO FLOW DOWN SLOPES, OR ONTO UNPROTECTED AREAS. SURFACE ROUGHENING OF ALL DISTURBED SLOPES SHALL BE MAINTAINED AT ALL TIMES. FOR THE WATER QUALITY BMPs MAY ONLY BE PERFORMED UPON SUBSTANTIAL - PUBLIC STREETS AND ADJACENT PAVED AREAS SHALL REMAIN IN A DUST AND MUD-FREE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. SHOULD OFF-SITE SEDIMENTATION OCCUR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO RETURN ALL AFFECTED AREAS TO A CONDITION EQUAL TO OR COMPLETION OF THE PROJECT AND SUBSTANTIAL STABILIZATION OF BETTER THAN THE ORIGINAL CONDITION, AT NO ADDED COST TO THE OWNER. - DISTURBED AREAS THAT ARE NOT PERMANENTLY STABILIZED WITHIN FOURTEEN (14) DAYS SHALL BE TEMPORARILY SEEDED IN ACCORDANCE WITH STANDARD AND SPECIFICATION 3.31 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. GRASS/LANDSCAPE AREAS. THIS IS NECESSARY TO PRECLUDE CONTAMINATION OF - ALL PROTECTIVE MEASURES WHICH PERTAIN TO, OR INCLUDE CUT AND FILL SLOPES (SILT FENCE, DIVERSION DIKES, ETC.) SHALL BE INSTALLED AND MAINTAINED AS THE SLOPES COME TO GRADE. ADDITIONAL DIVERSION DIKES WILL BE REQUIRED TO PROTECT DISTURBED AREAS, UNTIL SUCH TIME THE SAND AND BIORETENTION MATERIALS WITH SEDIMENTS AND OTHER DELETERIOUS THAT THE STORM DRAIN SYSTEM IS IN PLACE, AND FUNCTIONALLY PROTECTED FROM SEDIMENT INFILTRATION. TEMPORARY SEEDING OF SLOPES IS TO BE PERFORMED ON A WEEKLY BASIS, UNLESS THE SLOPES ARE TO FINAL GRADE ARE TO BE PERMANENTLY SEEDED MATERIALS. WITHIN SEVEN DAYS OF REACHING FINAL GRADE. 10. UPON INSTALLATION OF THE WATER QUALITY BMPs, THE CONTRACTOR SHALL THE CONTRACTOR IS REQUIRED TO PROVIDE AND MAINTAIN ALL EROSION CONTROL MEASURES AT THEIR OPTIMUM PERFORMANCE, SUCH THAT ADJOINING AREAS AND DRAINAGEWAYS ARE PROVIDED THE BEST AVAILABLE PROTECTION AT EVERY PHASE OF CONSTRUCTION. IT IS IMPERATIVE THAT SEDIMENT TRANSFER FROM THIS SITE IS MINIMIZED. PERMANENTLY SEED ALL AFFECTED AREAS IN ACCORDANCE WITH THESE PLANS. UPON ACHIEVING FINISH GRADE ELEVATIONS, ALL DISTURBED AREAS OTHER THAN THE BIORETENTION AREA SHALL BE PERMANENTLY SEEDED (STD & SPEC 3.32) AS OUTLINED HEREON AND ON THE SOIL EROSION CONTROL PLAN AND DETAIL SHEETS, UNLESS OTHER STABILIZATION MEASURES SUCH AS LANDSCAPE MULCHING ARE PROVIDED. THE RESPONSIBLE LAND DISTURBER ON RECORD WITH THE COUNTY FOR THIS PROJECT IS RESPONSIBLE FOR IMPLEMENTATION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL MEASURES, AS APPLICABLE. ALL MEASURES REQUIRED HEREIN SHALL BE MAINTAINED AS OUTLINED IN "CRITICAL AREAS" AND "EROSION AND SEDIMENT CONTROL MEASURES" SECTIONS ABOVE. 1. THE SITEWORK CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES. 2. THE COUNTY OF ROANOKE OR THEIR AUTHORIZED AGENT RESERVES THE RIGHT TO ADD TO, DELETE, OR OTHERWISE CHANGE EROSION CONTROL DEVICES AS MAY BE DEEMED NECESSARY, BY WRITTEN NOTIFICATION TO THE CONTRACTOR. 3 NO WORK SHALL PROCEED ON THE SITE UNTIL THE PROPER AUTHORIZATION OR PERMIT HAS BEEN OBTAINED FROM THE COUNTY OF ROANOKE. 4. THE ENGINEER, CALDWELL WHITE ASSOCIATES, ASSUMES NO RESPONSIBILITY FOR ANY WORK BEING PERFORMED. VESCH TABLE 6-1: GENERAL EROSION AND 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 SEDIMENT CONTROL REGULATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS 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: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING. ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES. ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THE 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-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY. ES-7: 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-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE. ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUN-OFF PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY. STATE IMPOSED MINIMUM STANDARDS THE FOLLOWING STANDARDS ARE TO BE PROVIDED OR ADDRESSED ON EVERY DEVELOPMENT PROJECT EXCEEDING 10,000 S.F. IN AREA OF DISTURBANCE. THESE STANDARDS ARE CONSIDERED A MINIMUM AND MAY REQUIRE ADDITIONAL MEASURES AS DEEMED NECESSARY BY THE LOCAL APPROVING AUTHORITY OR THE CONSULTING ENGINEER. No. | CRITERIA, TECHNIQUE OR METHOD PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE HAS BEEN REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED SEE "PERMANENT SEEDING" AND "TEMPORARY SEEDING" REQUIREMENTS, THIS SHEET AND SHEET C-15. AREAS THAT MAY BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN FOURTEEN (14) DAYS. PERMAIENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE (1) YEAR. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES, THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL PROVIDE PERIMETER SILT FENCE AND TEMPORARY SEEDING OF TEMPORARY STOCKPILES, SEE C-09 _____ 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, IN THE OPINION OF THE LOCAL PROGRAM SELF EXPLANATORY - REFER TO THE SEEDING SPECS, THIS SHEET. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND 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 DISTURBANCE INSTALL NEW SILT FENCE IN ACCORDANCE WITH REQUIRELENTS HEREIN SEE C-09 FOR TEMP, DIVERSION DIKES AND SEDIMENT TRAP EMBANKMENT STABULTATION HETHODS SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAVIS, DIKES AND DIVERSIONS INMEDIATELY AFTER INSTALLATION. SEDIMENT TRAPS AND BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN. SEE SEDIMENT TRAP, SHEET C-09 1 LAND DISTURBANCE NOTES CUT AND FILL SLOPES SHALL BE CONSTRUCTED IN A MAINER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE (1) YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZATION MEASURES UNTIL PERMANENTLY SEED SLOPES AS THEY COME TO GRADE ALL OFF—SITE DISPOSAL OF MATERIALS, AND ASSOCIATED FEES, WILL BE THE SITEWORK CONTRACTOR'S RESPONSIBILITY, AND THE PROBLEM IS CORRECTED. IS TO BE PERFORMED IN A LEGAL FASHION (APPROVED WASTE SITE). ALL HAULING IS TO BE PERFORMED IN STRICT ACCORDANCE WITH LOCAL, STATE, AND FEDERAL RULES AND REGULATIONS PERTAINING THERETO. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL. FLUWE OR SLOPE DRAIN STRUCTURE. SEE PLANS FOR STORM DRAINAGE REQUIREMENTS AT NEW AND EXISTING SLOPES REPORT EMPENCE OF SEEPS TO ENGINEER IMMEDIATELY UPON DISCOVERY, ADDITIONAL MEASURES MAY BE WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED. ALL STORM SEIVER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT. PROVIDE INLET PROTECTIONS (AND CULVERT INLET PROTECTION) AS OUTLINED ON THE PLAN 🔝 BEFORE HEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN-BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL SEE PLANS FOR REQUIREMENTS RELATIVE TO CHANNEL CONSTRUCTION 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 NOT APPLICABLE TO SUBJECT DEVELOPMENT USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS, EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX (6) MONTH PERIOD, A TEMPORARY STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL NOT APPLICABLE TO SUBJECT DEVELOPMENT ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET. THE BEDS AND BANKS OF ANY WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED. NOT APPLICABLE TO SUBJECT DEVELOPMENT THE BEDS AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED. NOT APPLICABLE TO SUBJECT DEVELOPMENT INDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA: 1)NO MORE THAN 500 LINEAR FEET OF ANY TRENCH MAY BE OPENED AT ONE TIME. 2)EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES, J)EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAFFING DEVICE, OR BOTH, AND USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION SELF-EXPLANATORY, NEW STORM, SANITARY AND WATERLINE CONSTRUCTION SHALL CONFORM TO THESE AND PROMOTE STABILIZATION, 5)RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS, 6)APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH. 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 SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED PROVIDE NEW TEMPORARY CONSTRUCTION ENTRANCE AS REQUIRED BY THE PLAN ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERMISE AUTHORIZED BY THE LOCAL PROGRAM SOIL EROSION CONTROL NARRATIVE, MEASURES & WINISTRATOR, TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION REMOVAL OF TEMPORARY MEASURES SHALL BE IN ACCORDANCE WITH MS—18. CONSTRUCTION SEQUENCING AUTH OF WATER QUALITY. WATER QUALITY REQUIREMENTS ARE BEING MET BY PROVIDING DRY SHALES, A SAND FILTER, AND A CONTECH! STORM OF 24—HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA. STREAM RESTORATION AND RELOCATION PROJECTS THAT INCORPORATE NATURAL CHANNEL DESIGN CONCEPTS ARE NOT MAN—MADE CHANNELS AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN—MADE CHANNELS: A. CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MAN—MADE RECEIVING CHANNEL, PIPE OR STORM SEVER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED. B. ADEQUACY OF ALL CHANNELS AND SEVENTH DAY ADVENTIST REFORM "JELLYFISH FILTER" STRUCTURE. THE ACTUAL PHOSPHOROUS LOAD REDUCTION OF 1.49 LB/YEAR EXCEEDS THE REQUIRED REDUCTION RATE OF 1.48 LB/YEAR. PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER: (1) THE APPLICANT SHALL DEJIONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS ONE HUNDRED TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE MOVEMENT GENERAL CONFERENCE CORBIN L. WHITE PROJECT IN QUESTION; OR (2) (A) NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED OR BANKS. (B) ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL NOT CAUSE EROSION OF RUNOFF QUANTITY — CHANNEL PROTECTION: THE EASTERN SHED DRAINS INTO A MAN—MADE CLOSED CONVEYANCE SYSTEM WHICH DRAINS IN EXCESS OF 100 TIMES THE PORTION OF THE PROJECT DRAINING TO THE EAST. THE EXISTING SYSTEM HAS BEEN ANALYZED FOR THE 2—YEAR STORM AND FLOW VELOCITIES HAVE BEEN FOUND TO BE NON—EROSIVE FOR THE License No. 23843 SHOWING THE CONSTRUCTION OF A NEW CHAPEL FACILITY AND CHANNEL BED OR BANKS: AND (C) PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A TEN—YEAR STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM. C. IF EXISTING NATURAL RECEIVING CHANNELS OR 03-26-20/5 PREMOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL: (1) IMPROVE THE CHANNELS TO A CONDITION WHERE A TEN-YEAR STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR STORM WILL NOT CAUSE EROSION TO ASSOCIATED SITE IMPROVEMENTS THE CHAINEL BED OR BANKS; OR (2) IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR STORM IS CONTAINED WITHIN THE APPURTENANCES; OR (3) DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MAN-MADE CHANNEL OR WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TEN-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MAN-MADE CHANNEL; OR (4) PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE PLAN-APPROVING AUTHORITY TO PREVENT DOWNSTREAM EROSION. SITUATE 5248 HOLLINS ROAD THE WESTERN SHED DRAINS INTO TINKER CREEK PRIOR TO MEETING THE ONE-PERCENT RULE. AS SUCH, WE HOLLINS MAGISTERIAL DISTRICT PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE PLAN-APPROVING AUTHORITY TO PREVENT DOWNSTREAM ERGSION. D. THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS. E. ALL HYDROLOGIC ANALYSES SHALL BE BASED ON THE EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT OF THE SUBJECT PROJECT. F. IF THE APPLICANT CHOOSES AN OPTION THAT INCLIDES STORMWATER DETENTION, HE SHALL OBTAIN APPROVAL FROM THE LOCALITY OF A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE G. OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATERS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATERS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL. H. ALL ON-SITE CHANNELS MUST BE VERTICED TO BE ADEQUATE. INFORMATER MANAGEMENT CHANNEL OF THE FACILITY OF TH HAVE SHOWN THAT BY REPLACING THE ORIFICE PLATE ON THE EXISTING POND OUTFALL, WE MEET THE ENERGY BALANCE EQUATION REQUIRED FOR DISCHARGE INTO NATURAL CHANNELS. AS SUCH, NO FURTHER COUNTY OF ROANOKE, VIRGINIA ANALYSIS OF THE DOWNSTREAM CHANNEL IS REQUIRED. THE POST-DEVELOPMENT 1-YEAR PEAK DISCHARGE FROM THE POND OF 0.60 CFS IS LESS THAN THE CURRENT 1-YEAR PEAK DISCHARGE OF 1.13 CFS, AND ALSO LESS THAN THE 1-YEAR PEAK DISCHARGE PRIOR TO ANY DEVELOPMENT ON THE PROPERTIES OF 0.56 Designed: C.L. White Drawn: C.L. White RUNOSE QUANTITY — FLOOD PROTECTION: THE EASTERN SHED DRAINS INTO A MAN—MADE CLOSED CONVEYANCE SYSTEM INHICH DRAINS IN EXCESS OF 100 TIMES THE PORTION OF THE PROJECT DRAINING TO THE EAST. THE EXISTING SYSTEM HAS BEEN ANALYZED FOR THE 10—YEAR STORM AND IT HAS BEEN DETERMINED THAT THE EXISTING COVVEYANCE STREAMS AND OTHER WATERS OF THE STATE, L. ANY PLAN APPROVED PRIOR TO JULY 1, 2014, THAT PROVIDES FOR STORMWATER MANAGEMENT THAT ADDRESSES ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN—MADE CHANNELS IF THE PRACTICES ARE DESIGNED TO (1) DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 48 HOURS; (1) DETAIN AND RELEASE OVER A CALDWELL WHITE ASSOCIATES 24-HOUR PERIOD THE EXPECTED RAINFALL RESULTING FROM THE ONE YEAR, 24-HOUR STORMS AND (W) REDUCE THE ALLOWABLE PEAK FLOW RATE RESULTING FROM THE 1.5, 2, AND 10-YEAR, 24-HOUR STORMS TO A LEVEL THAT IS LESS THAN OR EQUAL TO THE Date: October 03, 2014

NESTERN SHED: WITH THE ABOVE-MENTIONED ORNIGE PLATE REPLACEMENT ON THE EXISTING POND OUTFALL, THE 10—YEAR POST-DEVELOPMENT PEAK DISCHARGE OF 0.97 CFS IS LESS THAN THE CURRENT 10—YEAR PEAK DISCHARGE FROM THE POND OF 3.53 CFS, AND ALSO LESS THAN THE 10—YEAR PEAK DISCHARGE

PRIOR TO ANY DEVELOPMENT ON THE PROPERTIES OF 6.05 CFS. AS SUCH, NO FURTHER DOWNSTREAM

PEAK FLOW RATE FROM THE SITE ASSUMING IT WAS IN A GOOD FORESTED CONDITION, ACHIEVED THROUGH MULTIPLICATION OF THE FORESTED PEAK FLOW RATE BY A REDUCTION FACTOR THAT IS EQUAL TO THE RUNOFF VOLUME FROM THE SITE WHEN IT WAS IN A GOOD FORESTED CONDITION, AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR MAN-MADE CHANNELS AS DEFINED IN ANY REGULATIONS

PROMULGATED PURSUANT TO \$ 10.1-562 OR 10.1-562 OR 10.1-570 OF THE ACT, M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF \$ 10.1-561 A OF THE ACT, M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF \$ 10.1-562 OR 10.1-562 OR 10.1-570 OF THE ACT, M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF \$ 10.1-562 OR 10.1-562 OR 10.1-570 OF THE ACT, M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF \$ 10.1-562 OR 10.1-562 OR 10.1-570 OF THE ACT, M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF \$ 10.1-561 A OF THE ACT, M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF \$ 10.1-561 A OF THE ACT, M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF \$ 10.1-561 A OF THE ACT, M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF \$ 10.1-561 A OF THE ACT, M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF \$ 10.1-561 A OF THE ACT, M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE PLANS APPROVED ON AND AFTER JULY 1, 2014, THE PLANS APPROVED ON AND AFTER JULY 1, 2014, THE PLANS APPROVED ON AND AFTER JULY 1, 2014, THE PLANS APPROVED ON AND AFTER JULY 1, 2014, THE PLANS APPROVED ON AND AFTER JULY 1, 2014, THE ACT, M. FOR JULY 1, 2014, THE ACT, M. FOR

THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) PERMIT REGULATIONS. N. COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN 4VACSO-60-65 OF THE

Wrgiua Storwwater Management Program (VSMP) Permit regulations shall be deemed to satisfy the requirements of minimum standard 19.

COMPLIANCE WITH WATER QUANTITY REQUIREMENTS IN THE STORMWATER MANAGEMENT ACT (\$ 10.1-603.2 ET SEG. OF THE CODE OF WRIGINIA) AND ATTENDANT REGULATIONS, UNLESS SUCH LAND-DISTURBING ACTIVITIES ARE IN ACCORDANCE WITH 4VAC50-60-48 OF

Scale: As Shown

Field Book: _____CH-B

W.O. No.: 14-0046

Tax Parcel: 39.05-01-09.00

REVISED MARCH 26, 2015 PER ROANOKE COUNTY / WYWA REVIEW - CLW

2> REVISED FEBRUARY 16, 2015 PER RKE. CO / VDOT / WVWA REVIEW — CLW

T REVISED DECEMBER 11, 2014 PER RKE. CO / VDOT / WVWA REVIEW — CLIV

ENGINEERS / SURVEYORS / PLANNERS

4203 MELROSE AVENUE

P.O. BOX 6260 ROANOKE, VIRGINIA 24017-0260

(540) 366-3400