



**THOMPSON
& LITTON** EST.
1950

ENGINEERS ARCHITECTS SURVEYORS

ADDENDUM NO. 001

TO: All Plan Holders

RE: Water System Capital Improvements – Phase II
For Town of Bluefield
T&L Project No. 16176

DATE: May 30, 2023

ORIGINAL BIDS RECEIVED DATE: June 7, 2023

REVISED BIDS RECEIVED DATE: June 28, 2023

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated May 5, 2023, as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

This Addendum consists of 5 pages and 1 drawing sheet with the revised date of May 30, 2023.

CLARIFICATIONS AND ANSWERS TO PRE-BID QUESTIONS:

1. The Pre-Bid Conference Attendance Record is enclosed.

CHANGES TO BIDDING REQUIREMENTS:

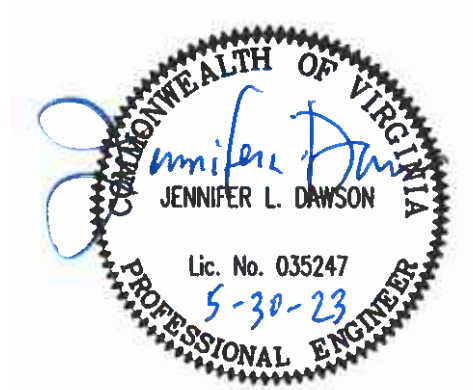
1. The bids received date and time is being extended to June 28, 2023, at 2:00 pm local prevailing time. The location for delivery of bids received remains as the office of Town of Bluefield, 112 Huffard Drive, Bluefield, VA 24605.

CHANGES TO PROJECT MANUAL:

1. The boring location plans have been added to Appendix B – Geotechnical Engineering Report. The boring location plans are enclosed.

CHANGES TO DRAWINGS:

1. General Note 17. has been added to Sheet G001 verifying the Town of Bluefield land disturbing permit fees. The revised sheet is attached.





Addendum No. 001
Water System Capital Improvements – Phase II
May 30, 2023
Page 2

2. Sheet No. E002 is not part of the drawing set and has been removed from the Sheet Index on Sheet G001. The revised sheet is attached.

Enclosures: Boring Location Plans, 2 pages
Sheet G001



**PRE-BID CONFERENCE
ATTENDANCE RECORD**

WEDNESDAY, MAY 24, 2023; 10:00 AM

**WATER SYSTEM CAPTIAL IMPROVEMENTS- PHASE II
For
TOWN OF BLUEFIELD
T&L Project No. 16176**

NAME	COMPANY	WORK NUMBER	MOBILE NUMBER	EMAIL ADDRESS
Tony Delporcio	DCI/Shires, Inc.	304-323-1996	540-320-5054	TONYDELE@dcishires.com
Dee Braun	DCI/SHIRES, INC. PO BOX 1259, BLUEFIELD WV 24701 PH 304-323-1996 FAX 304-323-3037 EMAIL: robertdeeb@dcishires.com			
Sam Lilly	AMR Pemco	276-928-6725	same	slilly@amrpemco.com
Matt Culpepper	Vorney Inc (Electrical)	540 427 7852	334 685 3672	mculpepper@vorneyinc.com
Daniel Thompson	Chesapeake Environmental	720-908-0943	same	dthompson@chesapeake.com
Pat Jones	Orders Construction	304-881-3572	Same	patj@ordersconstruction.com
Brian McGough	Thompson & Litton	276 328 2161	276 275 9290	bmcgough@t-l.com
Pam Young	Thompson & Litton	304 425-9555	304 922-8624	pyoung@t-l.com
Rick Chitwood	Thompson & Litton			rchitwood@t-l.com
Kim Hernandez	TOB	(276)322-4626		clerk@bluefieldva.org

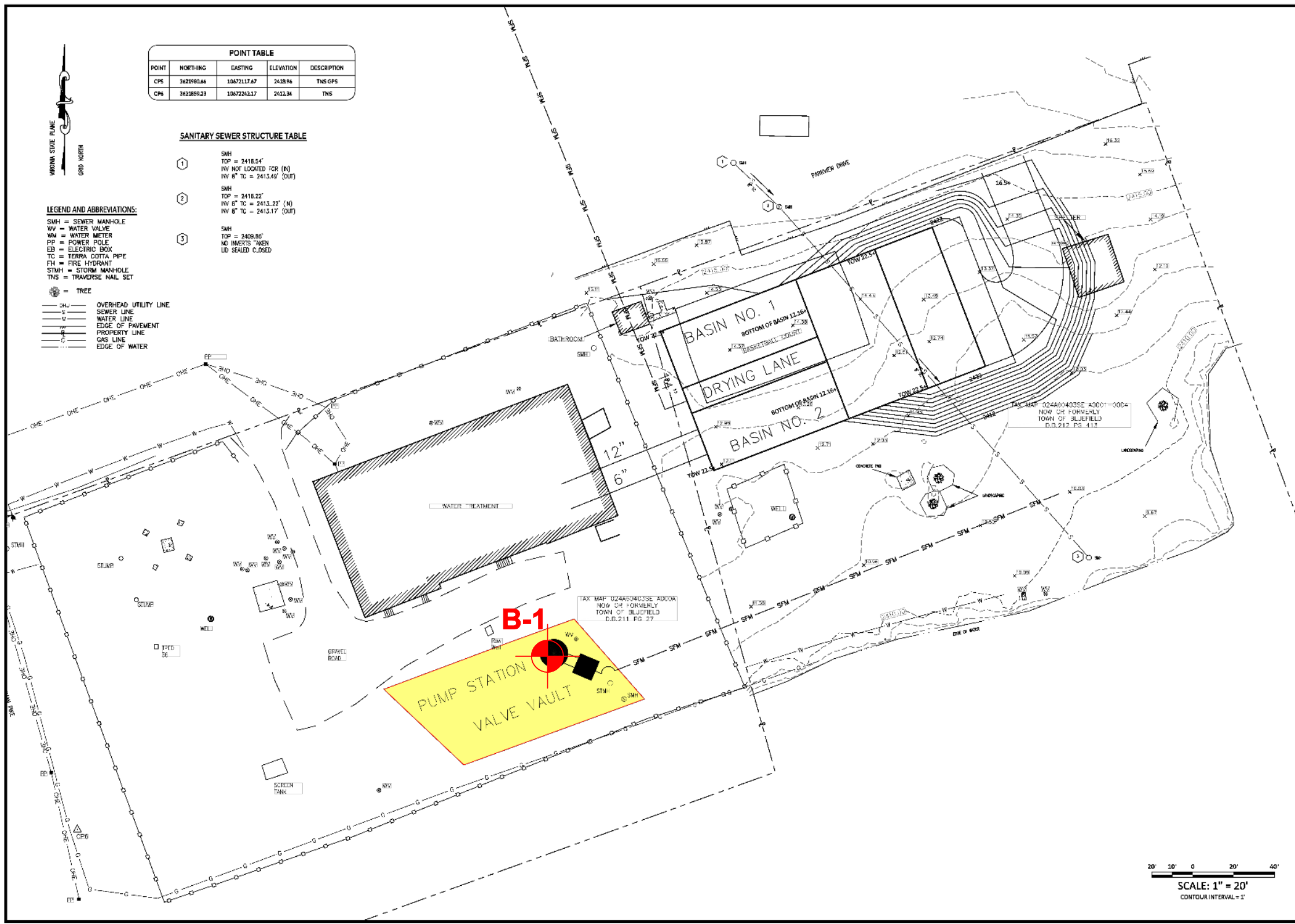


THOMPSON
& LITTON

**PRE-BID CONFERENCE
ATTENDANCE RECORD
WEDNESDAY, MAY 24, 2023; 10:00 AM**

**WATER SYSTEM CAPTIAL IMPROVEMENTS- PHASE II
For
TOWN OF BLUEFIELD
T&L Project No. 16176**

NAME	COMPANY	WORK NUMBER	MOBILE NUMBER	EMAIL ADDRESS
James Hampton	TOB	(276)322-4626		hampton@bluefieldva.org
Lane Blevins	Frizzell Const	423 968 5947	423 534 4002	ksmith_1@hbcontractors.net
Rock Chittwood	FL	276 988 7921	276 977 3896	rchittwood@t-l.com



POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CPS	362190.66	106721.77	2418.96	TNS GPS
CPS	362189.23	106722.17	2412.34	TNS

SANITARY SEWER STRUCTURE TABLE	
①	SMH TOP = 2418.54' INV NOT LOCATED FOR (N) INV 6" TC = 2413.49' (OUT)
②	SMH TOP = 2418.22' INV 6" TC = 2413.27' (N) INV 6" TC = 2413.17' (OUT)
③	SMH TOP = 2409.86' NO INVERTS OPEN LID SEALED CLOSED

- LEGEND AND ABBREVIATIONS:**
- SMH = SEWER MANHOLE
 - WV = WATER VALVE
 - WM = WATER METER
 - PP = POWER POLE
 - EB = ELECTRIC BOX
 - TC = TERRA COTTA PIPE
 - TH = FIRE HYDRANT
 - STMH = STORM MANHOLE
 - TNS = TRAVERSE NAIL SET
 - TREE
 - OHL = OVERHEAD UTILITY LINE
 - SFM = SEWER LINE
 - W = WATER LINE
 - EP = EDGE OF PAVEMENT
 - PL = PROPERTY LINE
 - GL = GAS LINE
 - EW = EDGE OF WATER

Preliminary

TOWN OF BLUEFIELD - AMERICAN RECOVERY ACT PLAN PROJECTS
WATER TREATMENT PLANT - SITE PLAN

No.	Date	Revised of Document Issue

Designed	
Drawn	
Checked	
Date	NOVEMBER 2021

Project No. 16176



Sheet No. C101

Lighthouse Engineering Consultants, LLC
 PO Box 282
 Pounding Mill, Virginia 24637
 Email: eric@lighthouseengineeringconsultants.com
 Website: www.lighthouseengineeringconsultants.com
 Phone: (276) 964-6047
 Mobile: (423) 502-0673

BORING LOCATION PLAN A
PROPOSED IMPROVEMENTS
BLUEFIELD WATER TREATMENT PLANT
104 PARKVIEW DRIVE - BLUEFIELD, VA
FOR: THOMPSON & LITTON, INC.

B-1 = BORING NUMBER & LOCATION

NOTE: BORING LOCATIONS SHOWN SHOULD BE CONSIDERED APPROXIMATE.

DRAWING #:	2022-012F
DATE:	4-29-2022
DRAWN:	ECH
SCALE:	NONE

SHEET INDEX

Table with 2 columns: SHEET NO. and DESCRIPTION. Lists sheets T001 through E103 including cover sheets, maps, plans, and details.

GENERAL NOTES

MAPPING/EXISTING INFORMATION

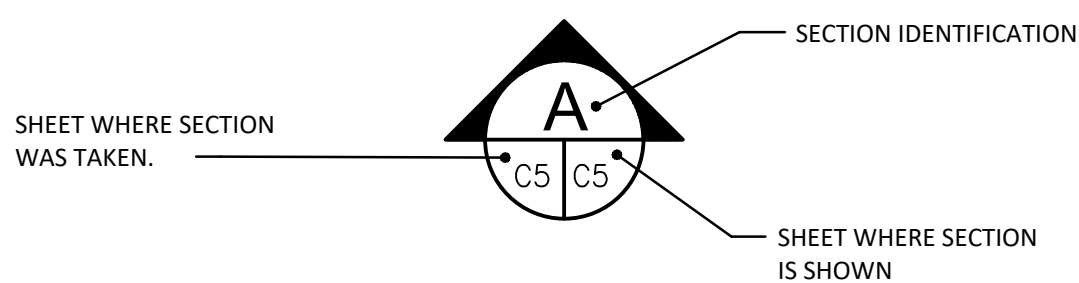
- 1. AERIAL PHOTOGRAPHY TO PROVIDE PLANIMETRIC MAPPING WAS OBTAINED FROM THE VIRGINIA GEOGRAPHIC INFORMATION NETWORK (VGIN). THE MAPPING WAS PREPARED IN 2019. FIELD SURVEY WAS PERFORMED BY THOMPSON & LITTON IN MAY 2022.
2. THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND UTILITIES ARE NOT GUARANTEED AND SHALL BE INVESTIGATED AND FIELD VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. ANY DAMAGE DONE TO EXISTING UNDERGROUND UTILITIES AND FACILITIES SHALL BE REPAIRED WITH THE UTILITIES AND FACILITIES RESTORED TO AT LEAST THEIR ORIGINAL CONDITION.

INSTALLATION

- 6. MINIMUM PIPE COVER FOR WATER LINES SHALL BE 3' - 0" UNLESS NOTED OTHERWISE.
7. ALL UNPAVED AND UNGRAVELED AREAS DISTURBED BY EXCAVATION SHALL BE SEEDED.
8. ABANDONED WATER LINES AND ANY CUT SECTION THEREOF SHALL BE CAPPED WITH CLASS A-3 CONCRETE ON BOTH ENDS.

GENERAL

- 12. OWNERSHIP OF DOCUMENTS: THIS DOCUMENT, INCLUDING THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF THOMPSON & LITTON AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF THOMPSON & LITTON.
13. ALL WORK PERFORMED SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE INTERRUPTION OF WATER TRANSMISSIONS AT PUMP STATIONS. FOR MORE INFORMATION, REFER TO THE SUGGESTED SEQUENCE OF CONSTRUCTION IN SPECIFICATION SECTION 01000 - GENERAL REQUIREMENTS.



- 17. THE CONTRACTOR MUST APPLY FOR A LOCAL LAND DISTURBING PERMIT THROUGH THE TOWN OF BLUEFIELD, POST AN EROSION AND SEDIMENT CONTROL BOND, AND PAY ALL APPLICABLE FEES. LISTED BELOW ARE THE FEES AND CONTROL BOND AMOUNT FOR THIS PROJECT, WATER SYSTEM CAPITAL IMPROVEMENTS - PHASE II (BLUEFIELD PROJECT #23-002):
• LOCAL LAND DISTURBANCE PERMIT - \$25.00
• E&S CONTROL BOND - WAIVED

CASH AND CHECK PAYMENTS ARE ACCEPTED AT OUR OFFICE, 112 HUFFARD DRIVE, BLUEFIELD, VA 24605 FROM 8:00AM TO 4:30PM MONDAY THROUGH FRIDAY, EXCLUDING NATIONAL HOLIDAYS. CHECKS SHALL BE MADE PAYABLE TO TOWN OF BLUEFIELD AND REFERENCE THE PROJECT NUMBER.

EROSION & SEDIMENT CONTROL MINIMUM STANDARDS

- 1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDEED 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 DENUDEED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS.
2. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES.
3. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDEED 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.

- 11. BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES 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.
12. 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.

- 13. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.
14. ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.

- 15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.
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 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 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.

- 17. 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 ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.

- 18. 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 AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

- 19. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY 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 SEWER 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 PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:

- (1) THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS 100 TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE 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 10-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 CHANNEL BED OR BANKS; AND
(3) PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A 10-YEAR STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.

- C. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:
(1) IMPROVE THE CHANNELS TO A CONDITION WHERE A 10-YEAR STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR STORM WILL NOT CAUSE EROSION TO THE CHANNEL, THE BED, OR THE BANKS;
(2) IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE 10-YEAR STORM IS CONTAINED WITHIN THE APPURTENANCES;
(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 NATURAL CHANNEL OR WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A 10-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 VESCP AUTHORITY TO PREVENT DOWNSTREAM EROSION.

- 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 CONDITION OF THE SUBJECT PROJECT.
F. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION, HE SHALL OBTAIN APPROVAL FROM THE VESCP OF A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE REQUIREMENTS OF THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE.

- G. OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATORS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITIES AS NECESSARY TO PROVIDE A STABILIZED TRANSITION FROM THE FACILITY TO THE RECEIVING CHANNEL.
H. ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE.
I. INCREASED VOLUMES OF SHEET FLOWS THAT MAY CAUSE EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL, PIPE OR PIPE SYSTEM, OR TO A DETENTION FACILITY.

- J. IN APPLYING THESE STORMWATER MANAGEMENT CRITERIA, INDIVIDUAL LOTS OR PARCELS IN A RESIDENTIAL, COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE DEVELOPMENT, AS A WHOLE, SHALL BE CONSIDERED TO BE A SINGLE DEVELOPMENT PROJECT. HYDROLOGIC PARAMETERS THAT REFLECT THE ULTIMATE DEVELOPMENT CONDITION SHALL BE USED IN ALL ENGINEERING CALCULATIONS.
K. ALL MEASURES USED TO PROTECT PROPERTIES AND WATERWAYS SHALL BE EMPLOYED IN A MANNER WHICH MINIMIZES IMPACTS ON THE PHYSICAL, CHEMICAL AND BIOLOGICAL INTEGRITY OF RIVERS, STREAMS AND OTHER WATERS OF THE STATE.

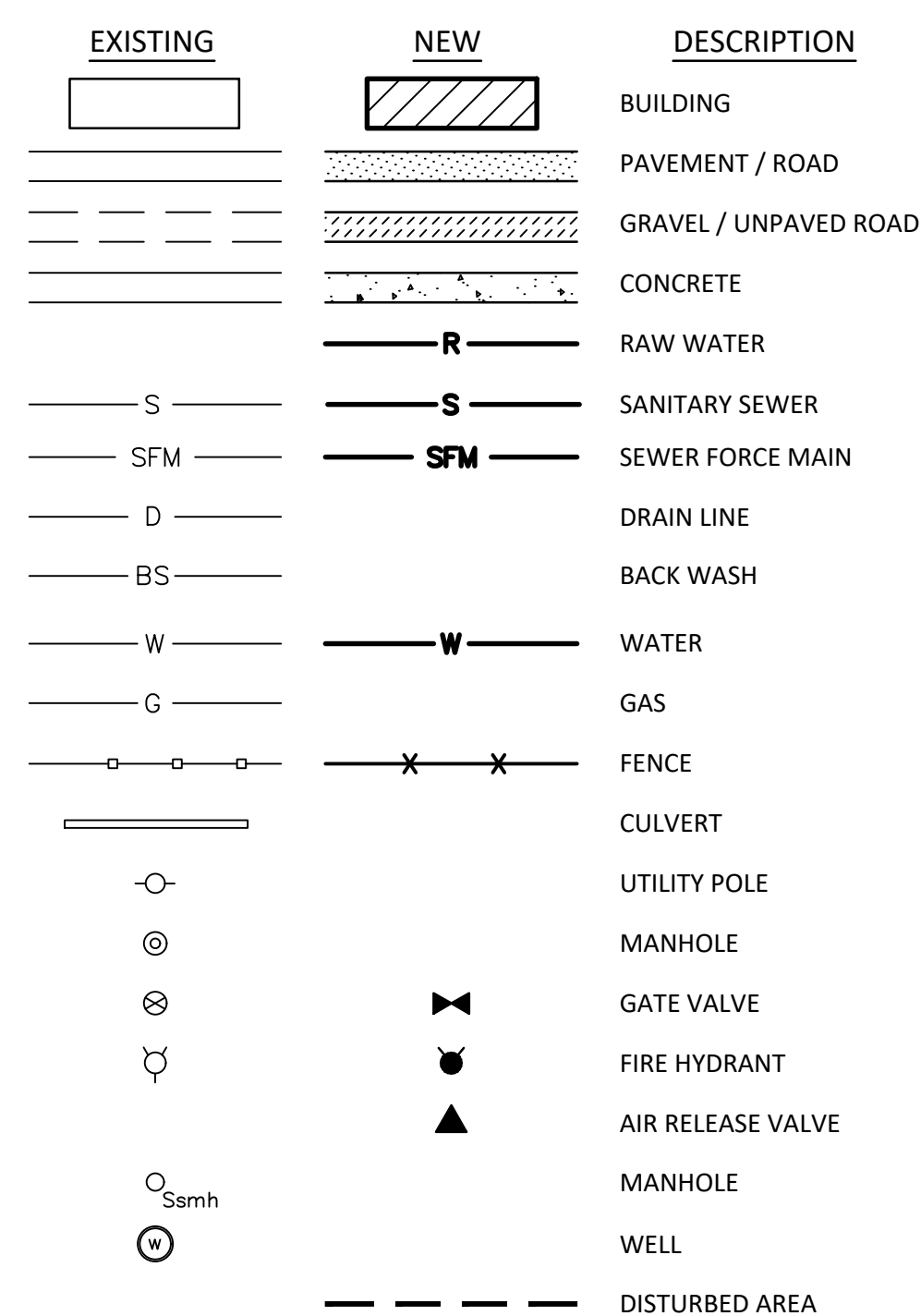
- L. ANY PLAN APPROVED PRIOR TO JULY 1, 2014, THAT PROVIDES FOR STORMWATER MANAGEMENT THAT ADDRESSES ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS SHALL SATISFY THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS IF THE PRACTICES ARE DESIGNED TO (I) DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 48 HOURS; (II) DETAIN AND RELEASE OVER A 24-HOUR PERIOD THE EXPECTED RAINFALL RESULTING FROM THE ONE YEAR, 24-HOUR STORM; AND (III) 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 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 DIVIDED BY THE RUNOFF VOLUME FROM THE SITE IN ITS PROPOSED CONDITION, AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS AS DEFINED IN ANY REGULATIONS PROMULGATED PURSUANT TO § 62.1-44.15-24 OR § 62.1-44.15-55 OF THE ACT.
M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF § 62.1-44.15-52 A OF THE ACT AND THIS SUBSECTION SHALL BE SATISFIED BY COMPLIANCE WITH WATER QUANTITY REQUIREMENTS IN THE STORMWATER MANAGEMENT ACT (§ 62.1-44.15-24 ET SEQ. OF THE CODE OF VIRGINIA) AND ATTENDANT REGULATIONS, UNLESS SUCH LAND-DISTURBING ACTIVITIES (I) ARE IN ACCORDANCE WITH PROVISIONS FOR TIME LIMITS ON APPLICABILITY OF APPROVED DESIGN CRITERIA IN § 62.1-44.15-27 OR § 62.1-44.15-28 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMMP) REGULATION, IN WHICH CASE THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF § 62.1-44.15-52 A OF THE ACT SHALL APPLY, OR (II) ARE EXEMPT PURSUANT TO § 62.1-44.15-34 C 7 OF THE ACT.

- N. COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN § 62.1-44.15-52 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMMP) REGULATION SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF THIS SUBDIVISION 19.

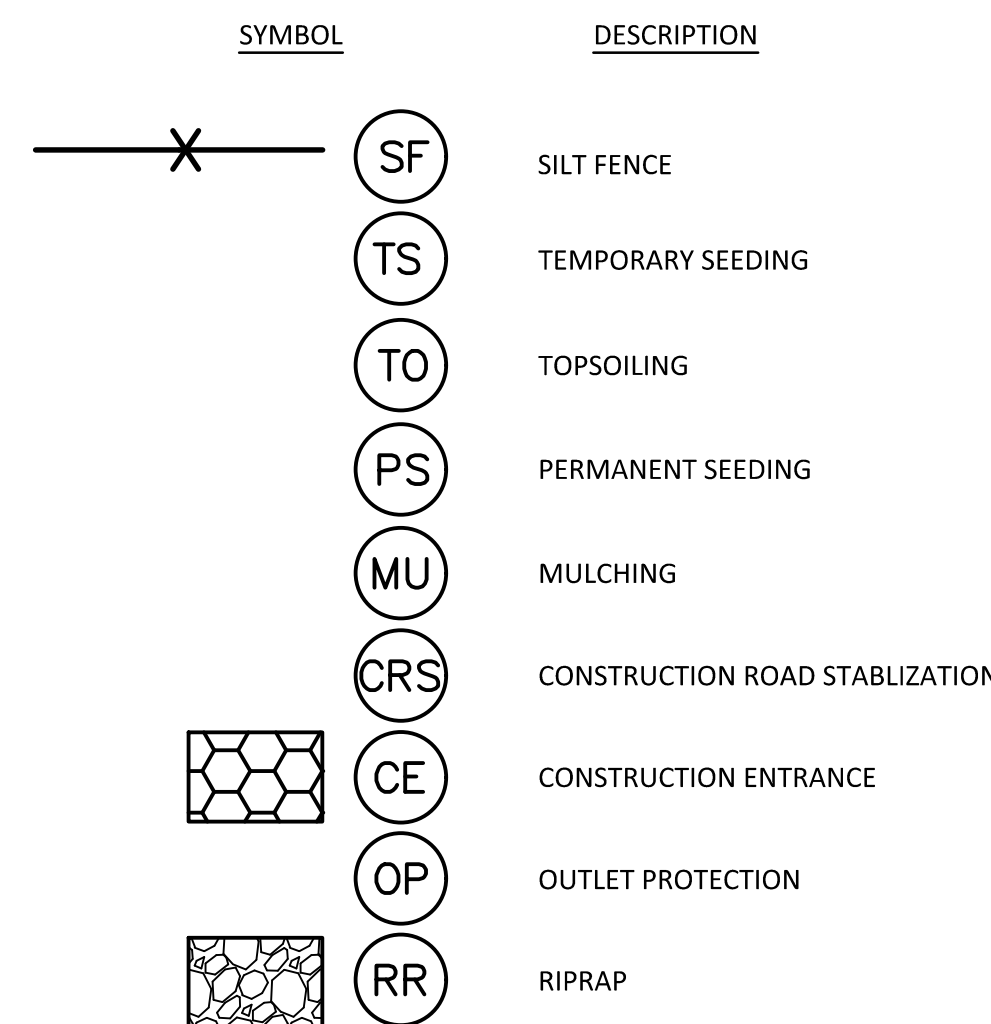
EROSION & SEDIMENT CONTROL SEQUENCE

- 1. CONTRACTOR TO INSTALL EROSION AND SEDIMENT CONTROLS.
2. CONTRACTOR TO COMPLETE DEMOLITION.
3. CONTRACTOR TO COMPLETE SITE IMPROVEMENTS.
4. CONTRACTOR TO STABILIZE SITE.
5. CONTRACTOR TO REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS, UPON COMPLETION / STABILIZATION OF PROJECT.

GENERAL LEGEND

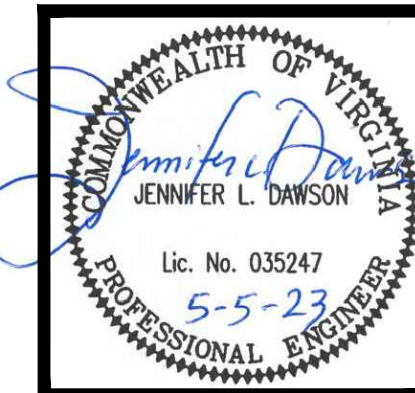


EROSION AND SEDIMENT CONTROL LEGEND



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, 1992 AND THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS.
ES-2. THE ADMINISTRATOR MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, TWO WEEKS PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION. THE NAME OF THE RESPONSIBLE LAND DISTURBER MUST BE PROVIDED TO THE ADMINISTRATOR TWO WEEKS PRIOR TO ACTUAL ENGAGEMENT IN THE LAND-DISTURBING ACTIVITY SHOWN ON THE APPROVED PLAN. IF THE NAME IS NOT PROVIDED PRIOR TO ENGAGING IN THE LAND-DISTURBING ACTIVITY, THE PLAN'S APPROVAL WILL BE REVOKED.
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 E&S PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
ES-5. 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 E&S PLAN TO THE ADMINISTRATOR FOR REVIEW AND APPROVAL.
ES-6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE INSPECTOR.
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, AFTER WHICH, UPON APPROVAL BY THE INSPECTOR, THE CONTROLS SHALL BE REMOVED. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
ES-8. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
ES-9. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES AT LEAST EVERY 2 WEEKS AND IMMEDIATELY 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-10. THE CONTRACTOR IS RESPONSIBLE FOR THE DAILY REMOVAL OF SEDIMENT THAT HAS BEEN TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE.
ES-11. SEEDING OPERATIONS SHALL BE INITIATED WITHIN 7 DAYS AFTER REACHING FINAL GRADE OR UPON SUSPENSION OF GRADING OPERATIONS FOR ANTICIPATED DURATION OF GREATER THAN 14 DAYS OR UPON COMPLETION OF GRADING OPERATIONS FOR A SPECIFIC AREA.
ES-12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOILS WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS, OR HARM ANIMAL OR PLANT LIFE.
ES-13. A VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMMP) PERMIT FOR THE DISCHARGE OF STORMWATER FROM CONSTRUCTION ACTIVITIES IS REQUIRED FOR PROJECTS DISTURBING 1 ACRE OR GREATER. VISIT DEQ'S CONSTRUCTION GENERAL PERMIT WEB PAGE AT THE FOLLOWING LINK FOR MORE INFORMATION: HTTP://WWW.DEQ.STATE.VA.US/PROGRAMS/WATER/STORMWATERMANAGEMENT/VSMMPPERMITS/CONSTRUCTIONGENERALPERMIT.ASPX



WATER SYSTEM CAPITAL IMPROVEMENTS - PHASE II FOR THE TOWN OF BLUEFIELD, VIRGINIA SHEET INDEX, NOTES & LEGENDS

Table with columns for No., Date, and Purpose of Document Issue. Includes dates 05-07-23 and 05-30-23.

Table with columns for Designed, Drawn, Checked, and Date. Values include JLD, ESB, DBM, and NOVEMBER 2021.

Project No. 16176



Sheet No. G001