

CONASTONE TO NORTHWEST SUBSTATION

230 KV TRANSMISSION CONDUCTOR REPLACEMENT PROJECT (PHASE 3)

SEDIMENT AND EROSION CONTROL and GRADING PLAN

GENERAL NOTES

(FOR EROSION AND SEDIMENT CONTROL PLANS ONLY)

- REFER TO "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN.
- WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT. CHANGES IN SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE BALTIMORE COUNTY SOIL CONSERVATION DISTRICT.
- AT THE END OF EACH WORKING DAY, ALL SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AND LEFT IN OPERATIONAL CONDITION.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN (A) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN THREE HORIZONTAL TO ONE VERTICAL (3:1), AND (B) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
- ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO BALTIMORE COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL.
- DUST CONTROL WILL BE PROVIDED FOR ALL DISTURBED AREAS. REFER TO "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", PAGE H.22, FOR ACCEPTABLE METHODS AND SPECIFICATIONS FOR DUST CONTROL.
- ANY VARIATIONS FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE BALTIMORE COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE.
- EXCESS CUT OR BORROW MATERIAL SHALL GO TO, OR COME FROM, RESPECTIVELY, A SITE WITH AN OPEN GRADING PERMIT, AND APPROVED SEDIMENT CONTROL PLAN.
- THE FOLLOWING ITEM MAY BE USED AS APPLICABLE. REFER TO "MARYLAND'S WATERWAY CONSTRUCTION GUIDELINES" FOR WATERWAY CONSTRUCTION BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT WATER MANAGEMENT ADMINISTRATION (WMA), DATED NOVEMBER, 2000, FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN FOR WATERWAY CONSTRUCTION.
- PUMPING SEDIMENT-LOADED WATER INTO WATERS OF THE STATE IS STRICTLY PROHIBITED. ANY PORTABLE DEWATERING DEVICE MUST BE LOCATED WITHIN THE LIMIT OF DISTURBANCE.
- UPON INSTALLATION OF THE BASE PAVEMENT AND AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR, RELOCATE THE STABILIZED CONSTRUCTION ENTRANCE(S) AND INSTALL ADDITIONAL CONTROL MEASURES (STABILIZED CONSTRUCTION ENTRANCES, SILT FENCES, SUPER SILT FENCES) AS NEEDED TO CONTROL SEDIMENT RUNOFF FROM DISTURBED AREAS. THE ADDITIONAL CONTROLS MUST NOT ALTER DRAINAGE PATTERNS.

MAINTENANCE NOTE

CONTRACTOR SHALL INSPECT AND MAINTAIN ALL SEDIMENT CONTROL MEASURES AND DEVICES AFTER EVERY STORM EVENT. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO: (1) REMOVAL OF ALL ACCUMULATED SEDIMENT, GEOTEXTILE FABRIC SHALL BE REPLACED AS NEEDED TO ENSURE PROPER FUNCTION.

DAILY STABILIZATION NOTE

THIS NOTE SHOULD BE USED FOR MINIMAL AREAS WITHIN THE LIMITS OF DISTURBANCE THAT DO NOT DRAIN TO A SEDIMENT CONTROL MEASURE AND/OR WHERE THE INSTALLATION OF CONTROLS IS NOT FEASIBLE.

CONTRACTOR SHALL ONLY DISTURB THAT AREA WHICH CAN BE COMPLETED AND STABILIZED BY THE END OF EACH WORKING DAY.

- STABILIZATION SHALL BE AS FOLLOWS:
 - FOR AREAS TO BE PAVED, THE APPLICATION OF STONE BASE
 - FOR AREAS TO BE VEGETATIVELY STABILIZED:
 - PERMANENT SEED AND MULCH FOR ALL SLOPES STEEPER THAN THREE HORIZONTAL TO ONE VERTICAL (3:1) OR SWALES.
 - PERMANENT SEED AND MULCH FOR ALL OTHER AREAS.

ANY AREAS WHICH CAN NOT BE STABILIZED BY THE END OF EACH WORKING DAY MUST HAVE SILT FENCE INSTALLED ON THE DOWN-SLOPE SIDE.

TEMPORARY STOCKPILE NOTE

- TEMPORARY STOCKPILES SHALL BE:
 - LOCATED WITHIN THE LIMIT OF DISTURBANCE (LOD).
 - DRAIN TO A FUNCTIONING SEDIMENT CONTROL DEVICE.
 - POSITIONED TO NOT IMPEDE UPON, OR IMPAIR THE FUNCTION OF SAID DEVICE.
 - POSITIONED TO NOT ALTER DRAINAGE SWIDE.

UTILITY NOTE

- CONTRACTOR SHOULD OPEN ONLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY. IF TRENCH MUST REMAIN OPEN LONGER THAN 1 DAY, SILT FENCE SHALL BE PLACED BELOW DOWN-SLOPE OF THE TRENCH.
- PLACE ALL EXCAVATED MATERIAL ON UP-HILL SIDE OF TRENCH.
- ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.

STANDARD NON-DISTURBANCE NOTE

THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION, OR DISTURBANCE OF VEGETATION IN ANY FOREST BUFFER EASEMENTS, FOREST CONSERVATION EASEMENT, OTHER FOREST RETENTION AREAS EXCEPT AS PERMITTED BY THE BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY.

PROPOSED GRADING NOTE

THE PROPOSED GRADING SHOWN ON THIS PLAN MEETS THE REQUIREMENTS SET FORTH BY THE BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY WITH ARTICLE 23, TITLES 5 OF THE BALTIMORE COUNTY CODE. HOWEVER, DUE TO BUILDING TYPES AND LAYOUT, SOME FIELD ADJUSTMENTS ARE REQUIRED. ALL CHANGES MUST COMPLY WITH THE ABOVE MENTIONED REQUIREMENTS.

SWALE NOTE

ALL SWALES HAVE BEEN DESIGNED BY THE ENGINEER AS 100% RAINFALL RUNOFF ACCORDING TO BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS DESIGN STANDARD.

STORMWATER MANAGEMENT NOTE

STORMWATER MANAGEMENT HAS BEEN ADDRESSED THROUGH STORMWATER MANAGEMENT VARIANCE.

Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: (a) three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than three horizontal to one vertical (3:1), and (b) seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.

UPDATE PREPARED BY:

GEORGE WILLIAM STEPHENS, JR. and ASSOCIATES, INC.
 ENGINEERS • PLANNERS • SURVEYORS • TRANSPORTATION
 WATER-EDGE CORPORATE CAMPUS
 4677 W. I-83 BUSINESS ROUTE, SUITE 100
 BALTIMORE, MD 21287
 PHONE: 410-224-2240 FAX: 410-224-2245 Email: jstephens@gwsstephens.com

JRO ASSOCIATES, LLC
 LAND PLANNING SURVEYING ENGINEERING
 3337 EDWARDS LANE
 MIDDLE RIVER, MD 21220
 PHONE: 410-429-2809
 CONTACT: JUSTIN R. OTTENMEYER, P.L.S.
 PROFESSIONAL LAND SURVEYOR
 WWW.JROASSOCIATES.COM
 E-MAIL: JROASSOCIATES@GMAIL.COM

DATE	REVISION	BY
05/10/2023	PLAN UPDATE	JRO

OWNER / DEVELOPER:
 BALTIMORE GAS & ELECTRIC
 1600 LEADENHALL STREET
 BALTIMORE, MD 21202
 CONTACT: JIM BURKMAN, SR. ENVIRONMENTAL SCIENTIST
 PHONE: 410-470-9578

MISS UTILITY LAW
 811
 LOCATION OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED BY MISS UTILITY LAW. THE MISS UTILITY LAW IS A FEDERAL LAW THAT REQUIRES THE LOCATION OF UNDERGROUND UTILITIES TO BE DETERMINED PRIOR TO ANY EXCAVATION OR DISTURBANCE OF THE GROUND. CONTRACTORS MUST NOTIFY MISS UTILITY LAW AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OR DISTURBANCE OF THE GROUND. MISS UTILITY LAW IS A FEDERAL LAW THAT REQUIRES THE LOCATION OF UNDERGROUND UTILITIES TO BE DETERMINED PRIOR TO ANY EXCAVATION OR DISTURBANCE OF THE GROUND. CONTRACTORS MUST NOTIFY MISS UTILITY LAW AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OR DISTURBANCE OF THE GROUND.

INDEX OF SHEETS

DRAWING No.	TITLE SHEET	SHEET TITLE
C-01	KEY SHEET	KEY SHEET
C-02	KEY SHEET	KEY SHEET
C-03	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-04	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-05	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-06	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-07	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-08	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-09	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-10	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-11	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-12	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-13	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-14	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-15	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-16	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-17	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-18	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-19	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-20	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-21	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-22	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-23	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-24	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-25	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-26	GRADING AND E.S.C. PLAN - PHASE 3	GRADING AND E.S.C. PLAN - PHASE 3
C-27	GRADING AND E.S.C. DETAILS - PHASE 3	GRADING AND E.S.C. DETAILS - PHASE 3
C-28	GRADING AND E.S.C. NOTES - PHASE 3	GRADING AND E.S.C. NOTES - PHASE 3

STORMWATER MANAGEMENT PERMIT NOT REQUIRED
 Baltimore County **ATP 06/15/2020**
 Department of Environmental Protection and Sustainability
 APPROVED FOR GRADING
 06-15-2020
 Date

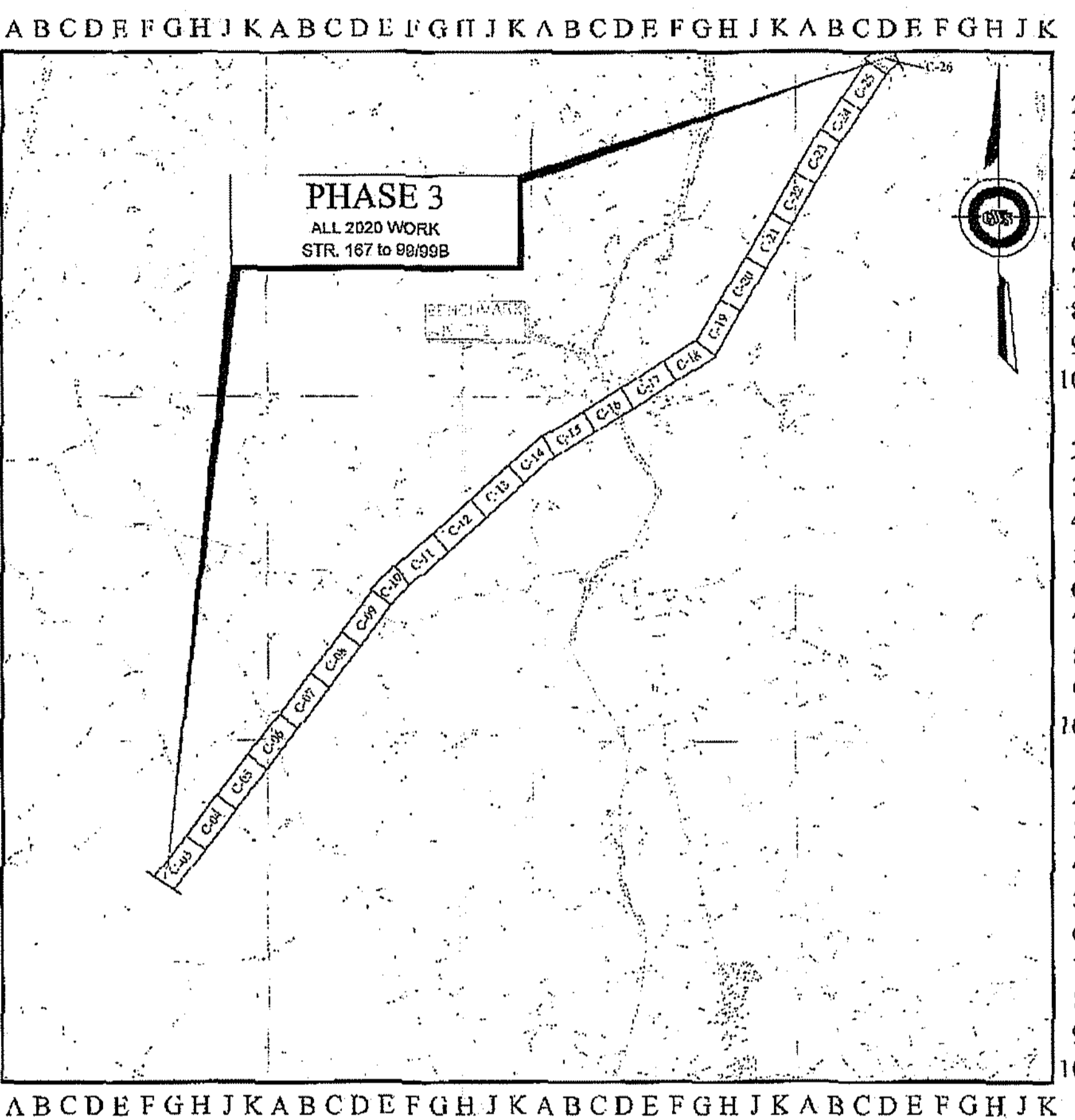
APPROVED FOR SEDIMENT CONTROL
 Baltimore County Soil Conservation District
 APPROVED FOR SEDIMENT CONTROL **5-27-20**
 Date
 District Official: **Doree Backman**
 Technical Review for the District by: **Jeffrey P. Wertz**
 This plan approval will expire three (3) years from the approval date.

CONSULTANT'S CERTIFICATION
 I certify that this plan of erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site, and this plan was prepared in accordance with the requirements of the Baltimore County Soil Conservation District and the current State of Maryland Specifications for Soil Erosion and Sediment Control. I have reviewed this erosion and sediment control plan with the owner/developer.
 Signature: **Justin R. Ottenmeyer, Prof. L.S.**
 Date: **05/10/20**
 Title: **21808**
 MD LICENSE NO.

OWNERS/DEVELOPERS CERTIFICATION - GRADING:
 I certify that all grading on this site will be done in accordance with the current grading requirements as set forth by the Baltimore County Department of Environmental Protection and Sustainability and with the requirements specified in Article 33, Title 5 of the Baltimore County Code.
 Signature of Owner/Developer: **Jim Burkman**
 Date: **5/10/20**
 Title: **Senior Environmental Project Manager**

BENCHMARK
 MCS - BENCHMARK JV1712 IS A BENCHMARK DISK SET IN CONCRETE POST
 N: 716.609.51 E: 1.403.955.01 (NAD 83(2011) ELEV: 699.55 (NAVD 88))

OWNER'S / DEVELOPER'S CERTIFICATION
 I/We hereby certify that any clearing, grading, construction, and/or development will be done pursuant to this plan and that any responsible personnel involved in this construction project will have a Certificate of Attendance at a Maryland Department of the Environment approved training program for the control of sediment and erosion before beginning the project. I/We also certify that the site will be inspected at the end of each working day, and that any needed maintenance will be completed so as to ensure that all sediment control practices are left in operational condition. I/We authorize the right of entry for periodic on-site evaluation by the Baltimore County Soil Conservation District Board of Supervisors or their authorized agents.
 Signature of Owner/Developer: **Jim Burkman**
 Date: **5/10/20**
 Title: **Senior Environmental Project Manager**



LOCATION MAP
 SCALE: 1" = 8000'

QUANTITY ANALYSIS

SUPER SILT FENCE	21,058 LF
MULCH ACCESS PATH	15,252 SF
CONSTRUCTION MAT AND MULCH	1,017,914 SF
STONE ACCESS PATH	5,030 SF
MOUNTABLE BERMS	22 EA
STABILIZED CONSTRUCTION ENTRANCES	34 EA
TEMPORARY ACCESS BRIDGE	6 EA

NOTE: FOR NON-GRADED WORK AREAS, PULL SILTS AND TENSIONING SITES THE CONTRACTOR IS GIVEN THE OPTION TO USE EITHER SUPER SILT FENCE OR CONSTRUCTION MATS & MULCH. QUANTITIES REFLECT BOTH OPTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY IN DETERMINING ACTUAL QUANTITIES PRIOR TO EACH STAGE OF CONSTRUCTION.

SITE ANALYSIS

1. TOTAL DISTURBED AREA=	56.86 AC±
2. AREA TO BE VEGETATIVELY STABILIZED=	56.86 AC±
3. IMPERVIOUS AREA=	0.00 AC±
4. GRADED WORK AREA=	8.47 AC±
5. GRADING QUANTITIES:	
* CUT=	12,500 CY±
FILL=	12,500 CY±
TOPSOIL=	4,500 CY±

* ASSUMED 4" TOPSOIL AS PART CUT QUANTITY.

SEQUENCE OF CONSTRUCTION NOTE

NOTE: THE FOLLOWING SEQUENCE OF CONSTRUCTION, INCLUDING THE INSTALLATION & MAINTENANCE OF EROSION & SEDIMENT CONTROLS, APPLY TO THE FOLLOWING THREE PRINCIPAL WORK ACTIVITIES DURING THE PROJECT: EROSION & SEDIMENT CONTROLS, INCLUDING BUT NOT LIMITED TO INSTALLATION OF MULCH & CONSTRUCTION MAT ACCESS PATH AND MULCH ACCESS PATH (SEE DETAIL ON SHEET C-27) SUPER SILT FENCE (SEE DETAIL ON SHEET C-27), AND TEMPORARY STABILIZATION (SEE NOTES ON C-28) SHALL BE APPLIED PRIOR TO COMMENCING ACCESS, PREPARATION OF WORK AREAS, PULL & TENSIONING SITES & MID-SPAN SPLICE SITE. SEE SHEET C-47 FOR PROJECT CONSTRUCTION PHASES, ROW SEGMENTS, AND TIME FRAMES (I.E. PHASE 1, PHASE 2, & PHASE 3).

- PRINCIPAL WORK ACTIVITIES INCLUDE THE FOLLOWING:
- CONSTRUCTION OF THREE (3) REPLACEMENT POLE STRUCTURES (PHASE 3: STR. 156R, 141H & 125P).
 - ABOVE-GROUND TOWER STEEL REINFORCEMENT DURING ALL PHASES OF PROJECT
 - WIRE REPLACEMENT PULL, TENSION, SPLICE OPERATIONS
 - FOUNDATION REPAIRS & REINFORCEMENTS AT (5) FIVE STRUCTURES: STR. 99, 99B, 120, 122 & 146/949

THESE PRINCIPAL WORK ACTIVITIES WILL REQUIRE TEMPORARY DISTURBANCE WITHIN SHOWN LODS FOR ACCESS AND AT STRUCTURAL SITES WITHIN EACH PHASE OF THE PROJECT THEREBY SHALL BE CALLED STAGES OF CONSTRUCTION. EACH STAGE OF CONSTRUCTION WILL BE DETERMINED BY THE CONTRACTOR AND NOTED TO THE INSPECTOR. EACH STAGE OF CONSTRUCTION SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION BEGINNING AT NOTE 1 OF THE SEQUENCE AND SHALL BE COMPLETED TO THE INSPECTOR'S SATISFACTION PRIOR TO COMMENCEMENT OF ADDITIONAL STAGES OF CONSTRUCTION.

DESCRIPTION OF WORK ACTIVITIES

WORK AREA - WORK AREAS INCLUDE POTENTIAL DISTURBANCE AREAS FOR TEMPORARY EQUIPMENT STAGING AND MANEUVERING, AND LIMITED EXCAVATION FOR PRINCIPAL WORK ACTIVITIES NOTED ABOVE WITHIN DEFINED LOD AS SHOWN ON GRADING PLANS. LOD AROUND REPLACEMENT STRUCTURES INCLUDES TEMPORARY LAYOUTS OF STEEL POLE SECTIONS FOR ASSEMBLY. WORK AREA AT PHASE 3 STRUCTURES 99, 99B, 120, 122 & 146/949 WILL INCLUDE EXCAVATION AROUND THE TOWER FOUNDATIONS WITHIN LOD TO REPAIR OR REINFORCE FOUNDATIONS.

PULL & TENSIONING SITES - INCLUDE POTENTIAL DISTURBANCE AREAS FOR TEMPORARY EQUIPMENT STAGING AND MANEUVERING WIRE PULLS AND TENSIONING EQUIPMENT ON TRAILERS WITHIN DEFINED LODS USED TO PULL NEW WIRE AND APPLY TENSIONS TO WIRE AT SPECIFIC LOCATIONS IN THE ROW AS SHOWN ON GRADING PLANS. PULL & TENSIONING SITES MAY INCLUDE TEMPORARY STAGING OF WIRE RELS, PULL & TENSIONING SITES MAY ALSO INCLUDE TEMPORARY STUB ANCHORS INSTALLATION IN THE GROUND TO SECURE WIRE DURING THE TENSIONING AND WIRE CLIPPING PROCESS.

MID-SPAN SPLICE SITES - INCLUDE POTENTIAL DISTURBANCE AREAS FOR TEMPORARY EQUIPMENT STAGING AND MANEUVERING WITHIN DEFINED LOD FOR INSTALLING WIRE SPIKE-N-RFTWFFN WIRE PULL SPANS AS SHOWN ON GRADING PLANS.

SEQUENCE OF CONSTRUCTION

- NOTIFY BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL, (410)837-3225 AT LEAST 48 HOURS PRIOR TO BEGINNING WORK. NOTIFY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, INSPECTION AND COMPLIANCE PROGRAM, (410)537-3510 AT LEAST 5 DAYS PRIOR TO BEGINNING WORK.
- IF APPLICABLE, ORANGE HIGH VISIBILITY FENCE SHALL BE MANUALLY INSTALLED ALONG THE LIMIT OF DISTURBANCE WHERE THE LIMIT IS WITHIN 50 FEET OF THE FOREST BUFFER CONSERVATION EASEMENT OR WETLAND/WETLAND BUFFER. THIS SHALL BE COMPLETED BY AND INSPECTED AT THE PRE-CONSTRUCTION MEETING.
- THE LIMIT OF DISTURBANCE (LOD) SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO BEGINNING A SEDIMENT CONTROL AND CONSTRUCTION EQUIPMENT ACCESS TO ENSURE COMPLIANCE WITH APPROVED PLANS.
- FOLLOWING THE PRE-CONSTRUCTION MEETING, CLEAR AND GRUB FOR AND INSTALL STABILIZED CONSTRUCTION ENTRANCES (SEE AT THE ACCESS TO COUNTY & STATE ROADS AS SHOWN). (SEE MAINTENANCE NOTE)
- FOLLOWING STEP #3 ALL SCE SHALL BE INSTALLED & MAINTAINED WITHIN THE ENTIRE PHASE OF THIS PROJECT.
- CLEAR & GRUB AS NECESSARY WITHIN THE LOD AT EACH STAGE OF CONSTRUCTION TO INSTALL MULCH ACCESS PATH OR MULCH & CONSTRUCTION MAT ACCESS PATH AND SUPER SILT FENCE AT LOCATIONS SHOWN ON PLANS. (SEE SUPER SILT FENCE DETAIL ON C-27).
- CLEARING & GRUBBING IN WETLANDS SHALL BE AVOIDED.
- INSTALL MULCH ACCESS PATH OR MULCH AND CONSTRUCTION MAT ACCESS PATH, SUPER SILT FENCE, MOUNTABLE DIRM & TEMPORARY ACCESS BRIDGES AT EACH STAGE OF CONSTRUCTION WITHIN LOD AS SHOWN. (SEE MAINTENANCE NOTE)
- IN WETLANDS, CONSTRUCTION MATS SHALL BE PLACED OVER VEGETATION. IN ALL AREAS, CONSTRUCTION MATS MUST REMAIN IN PLACE UNTIL PERMISSION HAS BEEN GRANTED FOR REMOVAL OF SEDIMENT CONTROL MEASURES.
- NOTIFY BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL UPON COMPLETION OF SAID INSTALLATION WITHIN EACH STAGE OF CONSTRUCTION.
- ALL SEDIMENT CONTROL PRACTICES MUST BE INSTALLED AND INSPECTED PRIOR TO COMMENCEMENT OF ANY STAGE OF CONSTRUCTION ACTIVITY. (ANY DISTURBANCE OUTSIDE THE CONFINES OF THE ESTABLISHED SEDIMENT CONTROL MEASURES SHALL ADHERE TO THE DAILY STABILIZATION NOTE ON THIS SHEET.)
- WITH APPROVAL OF BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL AND THE SEDIMENT CONTROL INSPECTOR CLEAR AND GRUB WORK AREAS REQUIRING TEMPORARY GRADING AS SHOWN, FOLLOWING COMPLETION OF GRUBBING IN THE WORK AREA, STABILIZE DISTURBED AREAS USING MATERIALS INDICATED ON THESE PLANS. (SEE C-28 TEMPORARY AND PERMANENT STABILIZATION SPECIFICATIONS).
- STABILIZE ALL PROPOSED SIDE SLOPES (3:1 AND SHIFTER WITH PERMANENT SEED, AND TEMPORARY SOIL STABILIZATION MATTING).
- COMMENCE PRINCIPAL WORK ACTIVITY WITHIN EACH STAGE OF CONSTRUCTION. (SEE DESCRIPTION OF WORK ACTIVITIES ON THIS SHEET.)
- AT ALL NEW REPLACEMENT STRUCTURES, MID SPAN WORK SITES AND EXISTING FOUNDATION REINFORCEMENT SITES INSTALL SUMP PITS & FILTER BAGS AS NECESSARY TO DEWATER SATURATED AREAS.
- ALL AREAS NOT DRAINING TO SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN A STABILIZED CONDITION AT ALL TIMES IN ACCORDANCE WITH THE DAILY STABILIZATION NOTE ON THIS SHEET.
- WITHIN EACH STAGE OF CONSTRUCTION, UPON COMPLETION AND STABILIZATION OF THE SITE WITH ESTABLISHED VEGETATION, AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL MEASURES AND STABILIZE THOSE AREAS DISTURBED BY THIS PROCESS.
- ACCESS PATHS MUST REMAIN IN PLACE UNTIL PERMISSION HAS BEEN GRANTED FOR REMOVAL OF SEDIMENT CONTROL MEASURES.

DESIGN AND DRAWING BASED ON MARYLAND COORDINATE SYSTEM HORIZONTAL - NAD 83 (2011) VERTICAL - NAVD 1988

GRADING & EROSION AND SEDIMENT CONTROL PHASE 3 - TITLE SHEET

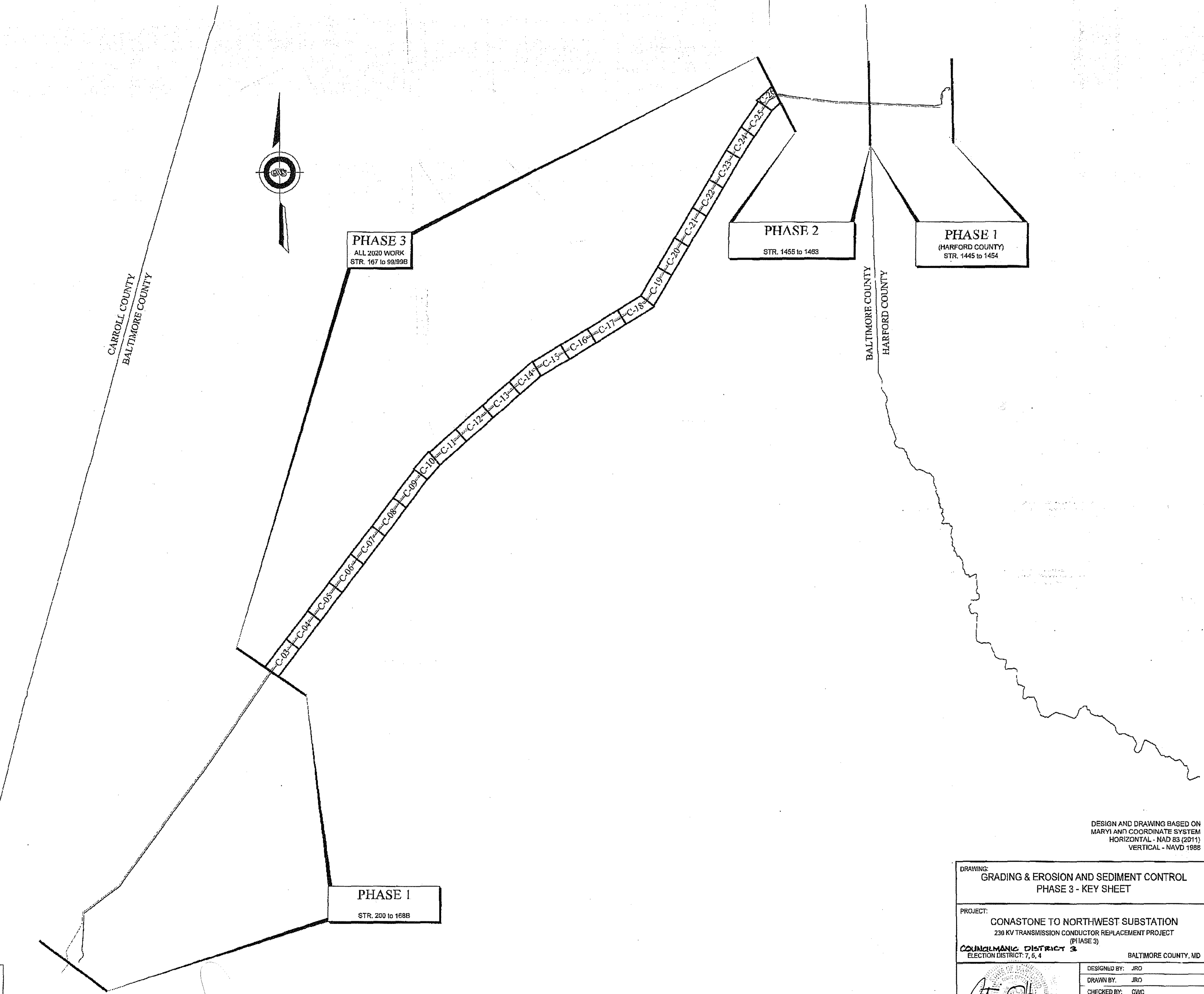
PROJECT: **CONASTONE TO NORTHWEST SUBSTATION**
 230 KV TRANSMISSION CONDUIT REPLACEMENT PROJECT (PHASE 3)
 CONSUMMARE DISTRICT 3
 ELECTION DISTRICT: 2, 5, 4
 BALTIMORE COUNTY, MD

DESIGNED BY: **JRO**
 DRAWN BY: **SED / JRO**
 CHECKED BY: **CWC**
 PROJECT NO.: **11803**
 DATE: **05/12/2020**
 SCALE: **AS SHOWN**

DRAWING NUMBER: **C-01**
 SHEET NUMBER: **01 OF 28**

SOILS TABLE

TYPE	SOIL SERIES	HYDROLOGIC GROUP	HYDRIC	K FACTOR	BUILDING CONSTRAINTS	DRAINAGE
BaA	BAILE	D	YES	0.37	VERY LIMITED	POORLY DRAINED
BaB	BAILE	D	YES	0.37	VERY LIMITED	POORLY DRAINED
BhB	BRINKLOW	C	NO	0.20	SOMEWHAT LIMITED	WELL DRAINED
BhC	BRINKLOW	C	NO	0.20	VERY LIMITED	WELL DRAINED
BhD	BRINKLOW	C	NO	0.20	VERY LIMITED	WELL DRAINED
CfA	CODORUS	C	YES	0.32	VERY LIMITED	MODERATELY WELL DRAINED
CgA	COMUS	B	YES	0.37	VERY LIMITED	WELL DRAINED
GaB	GAILA	B	NO	0.48	VERY LIMITED	WELL DRAINED
GaC	GAILA	B	NO	0.49	VERY LIMITED	WELL DRAINED
GdA	GLENELG	B	NO	0.24	NOT LIMITED	WELL DRAINED
GdB	GLENELG	B	NO	0.24	SOMEWHAT LIMITED	WELL DRAINED
GdC	GLENELG	B	NO	0.24	VERY LIMITED	WELL DRAINED
GeA	GLENELG	B	NO	0.20	NOT LIMITED	WELL DRAINED
GeB	GLENELG	B	NO	0.20	SOMEWHAT LIMITED	WELL DRAINED
GeC	GLENELG	B	NO	0.24	VERY LIMITED	WELL DRAINED
GfB	GLENELG	B	NO	0.28	SOMEWHAT LIMITED	WELL DRAINED
GhA	GLENVILLE	C	YES	0.37	NOT LIMITED	MODERATELY WELL DRAINED
GhB	GLENVILLE	D	YES	0.37	VERY LIMITED	MODERATELY WELL DRAINED
GhC	GLENVILLE	C	NO	0.37	VERY LIMITED	MODERATELY WELL DRAINED
GhD	GLENVILLE	C	NO	0.37	SOMEWHAT LIMITED	MODERATELY WELL DRAINED
HbA	HATBORO	D	YES	0.43	VERY LIMITED	POORLY DRAINED
MaC	MANOR	B	NO	0.28	VERY LIMITED	WELL DRAINED
MaD	MANOR	B	NO	0.28	VERY LIMITED	WELL DRAINED
MbC	MANOR	B	NO	0.15	VERY LIMITED	WELL DRAINED
MbD	MANOR	B	NO	0.15	VERY LIMITED	WELL DRAINED
MbE	MANOR	B	NO	0.15	VERY LIMITED	WELL DRAINED
MdE	MANOR-BRINKLOW	B	NO	0.28	VERY LIMITED	WELL DRAINED
MdF	MANOR-BRINKLOW	B	NO	0.28	VERY LIMITED	WELL DRAINED
UcF	UDORTHERENTS	---	NO	---	NOT RATED	---
Ur	URBAN LAND	D	NO	---	NOT RATED	---
UuB	URBAN LAND-UDORTHERENTS	D	NO	---	NOT RATED	---
WgB	WHEATON-GLENELG	B	NO	0.37	SOMEWHAT LIMITED	WELL DRAINED
WgC	WHEATON-GLENELG	B	NO	0.37	VERY LIMITED	WELL DRAINED
Cu	CODORUS	C	NO	0.32	VERY LIMITED	MODERATELY WELL DRAINED
CcC	GLENELG	B	NO	0.24	VERY LIMITED	WELL DRAINED
CnB	GLENVILLE	D	NO	0.37	VERY LIMITED	MODERATELY WELL DRAINED
MC02	MANOR	B	NO	0.17	VERY LIMITED	WELL DRAINED



DESIGN AND DRAWING BASED ON
MARYLAND COORDINATE SYSTEM
HORIZONTAL - NAD 83 (2011)
VERTICAL - NAVD 1988

DRAWING:
**GRADING & EROSION AND SEDIMENT CONTROL
PHASE 3 - KEY SHEET**

PROJECT:
**CONASTONE TO NORTHWEST SUBSTATION
230 KV TRANSMISSION CONDUCTOR REPLACEMENT PROJECT
(PHASE 3)**

**COUNCILMANS DISTRICT 3
ELECTION DISTRICT: 7, 5, 4** BALTIMORE COUNTY, MD

DESIGNED BY: JRO
DRAWN BY: JRO
CHECKED BY: CWC
PROJECT NO.: 11003
DATE: 05/12/2020
SCALE: 1" = 4500'

DRAWING NUMBER: **C-02** SHEET NUMBER: **02 OF 28**

05/10/2023
I, JUSTIN R. OTTENMEYER, CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO.: 21808 EXP. DATE: 12/15/2023

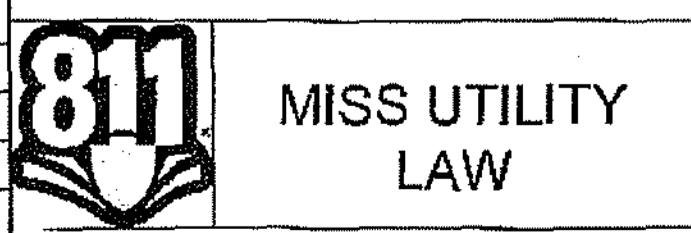
A-1.6-12-23^{DB}
Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
Dave Bachman 5-27-20
Date

GEORGE WILLIAM STEPHENS, JR. and ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS • TRANSPORTATION
WATERS EDGE CORPORATE CENTER
4882 MILLCREEK DRIVE, SUITE 100
BALTIMORE, MD 21207
P: 410-278-2342 F: 410-278-2343 www.gwsinc.com

05/10/2023 PLAN UPDATE JRO

DATE REVISION BY

OWNER / DEVELOPER:
BALTIMORE GAS & ELECTRIC
1699 LEADENHALL STREET
BALTIMORE, MD 21230
CONTACT: JIM BURKMAN, SR. ENVIRONMENTAL SCIENTIST
PHONE 410-470-8570



LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN OBTAINED FROM BALTIMORE COUNTY RECORDS. THE USER SHALL VERIFY THE LOCATION, DEPTH OR HORIZONTAL POSITION OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS AND UTILITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS AND UTILITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS AND UTILITIES.

Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: (a) three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than three horizontal to one vertical (3:1); and (b) seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.