

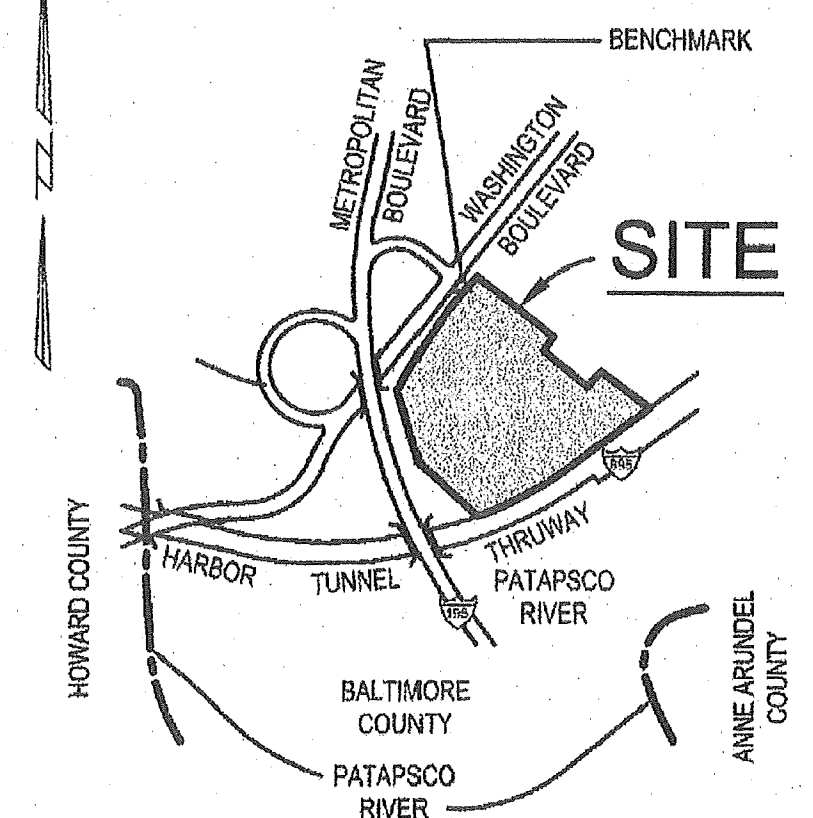
WASHINGTON BOULEVARD

METROPOLITAN BOULEVARD I-195

HARBOR TUNNEL APPROACH I-895

PLAN

SCALE: 1" = 50'



VICINITY MAP
SCALE: 1" = 1000'

RECEIVED
SEP 9 2021
DEPARTMENT OF PERMITS
APPROVALS AND INSPECTIONS

SHEET INDEX

C 01	SITE PLAN
C 02	GRADING & UTILITY PLAN
C 03	DETAILS, NOTES AND LEGEND
ESC 01	TITLE SHEET
ESC 02	PROPOSED SEDIMENT CONTROL PLAN
ESC 03	SEDIMENT CONTROL NOTES AND DETAILS
ESC 04	SEDIMENT CONTROL DETAILS
SWM 01	STORMWATER MANAGEMENT DRAINAGE AREA MAP
SWM 02	STORMWATER MANAGEMENT POND, NOTES AND DETAILS

SITE DATA

GROSS AREA OF TRACT	20.40 AC
NET AREA OF TRACT	19.89 AC
EXISTING BUILDING AREA - MAIN BUILDING	57,360 SF
EXISTING BUILDING HEIGHT	8400 SF
EXISTING FLOOR AREA RATIO	0.07
PERMITTED FLOOR AREA RATIO	0.10
EXISTING ZONING	ML-MH/WH-MH/ML-CS-1
EXISTING USE OF SITE	CLASS 1 TRUCKING FACILITY
PROPOSED USE OF SITE	PARKING DEVELOPMENT
PARKING REQUIREMENTS:	
EX. AUTO PARKING REQUIRED AT 5 SPACES + 1 SPACE FOR EACH TWO EMPLOYEES ON THE LARGEST SHIFT (37 EMPLOYEES) = 5 + 37/2 = 24 SPACES REQUIRED	
EXISTING PARKING (TRUCK)	
EXISTING LOADING DOCK SPACES	

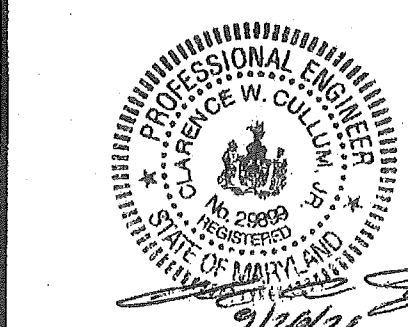
RECEIVED
OCT 1 2021
DEPARTMENT OF PERMITS
APPROVALS AND INSPECTIONS

SITE PLAN

ESTES EXPRESS LINES
5101 WASHINGTON BLVD.

BALTIMORE, MD
PLAT REF.

ELECTION DISTRICT: 13



I, CLARENCE W. CHALLINOR, CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 22899
EXP. DATE: 01/13/2022
FOR REDLINE REVISION #1 ONLY

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 18516
EXPIRATION DATE: 12/01/11



GEORGE WILLIAM STEPHENS, JR.
AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS

235 SCHILLING CIRCLE, SUITE 103
HUNT VALLEY, MARYLAND 21031
(410) 785-6840



OWNER/DEVELOPER
ESTES EXPRESS LINES
3901 WEST BROAD STREET
RICHMOND, VA 23230
PH: 804-353-1900

REDLINE REVISION #1 APPROVED 10/23/21 KLU

NO.	DATE	REVISIONS	BY
1	10/21/21	ADDED CONCRETE PAVES	OWS
2			
3			
4			
5			
6			
7			
8			
9			
10			

OWS

SCALE: 1" = 50'
DATE: 08/18/21
JOB #: 11231
DES: DGG
CHK: DGG
FILE:
DRAWING NUMBER: C-1
SHEET 1 OF 3

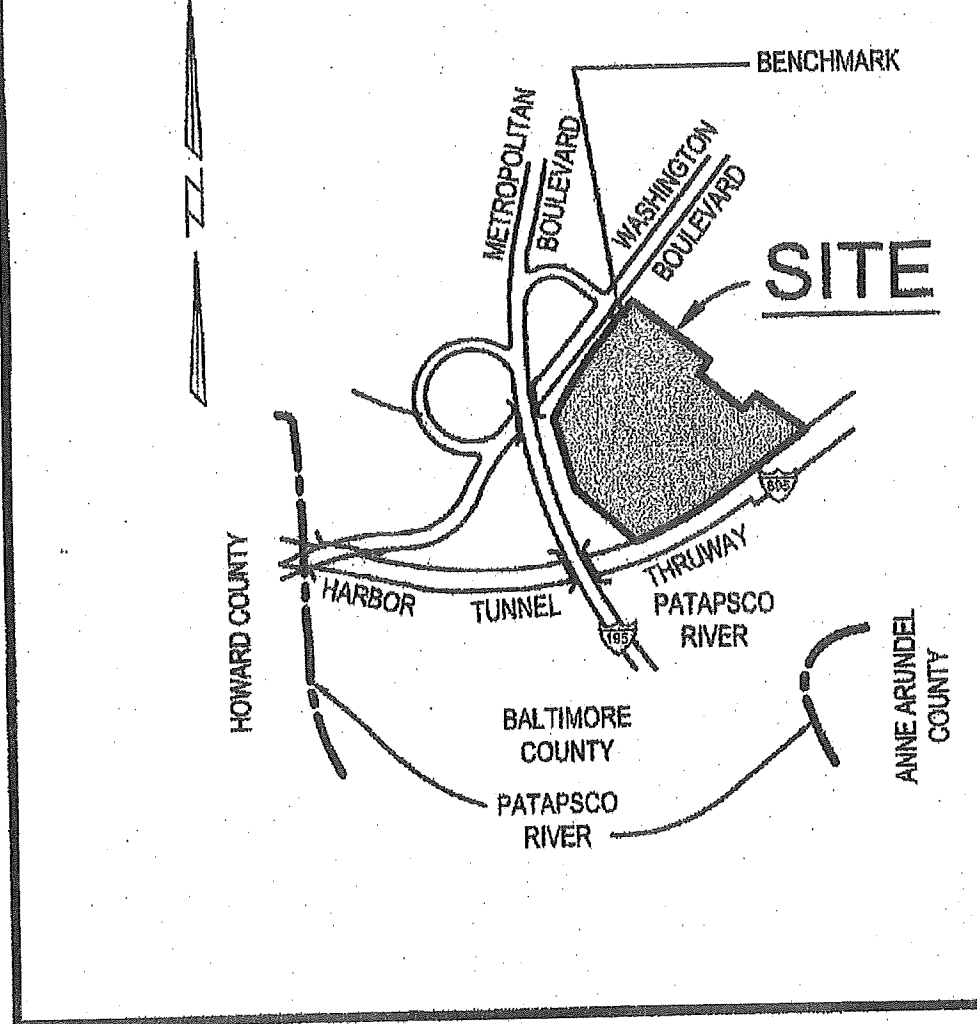
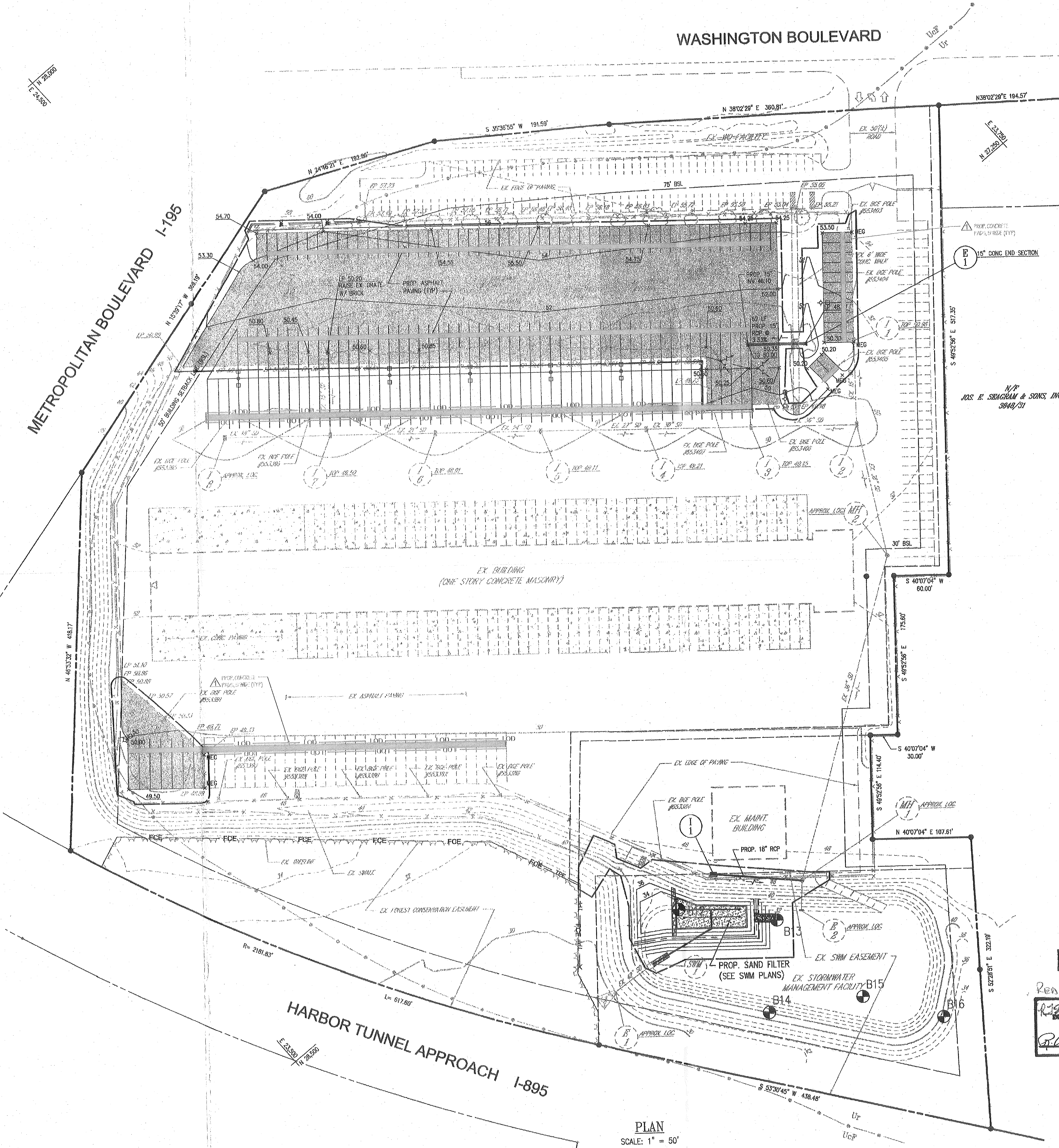
BALTIMORE, MD
PLAT REF.

UA-2023-000-TF

APPROVED 9/11/23

METROPOLITAN BOULEVARD I-195

WASHINGTON BOULEVARD



VICINITY MAP
SCALE: 1" = 1000'

BENCHMARK

X 3593 S 27395.58
ELEV. 32.440 W 24023.72
QUANTIFIED SPIKE IN MAGADAM SHOULDER
ON SOUTHEAST SIDE OF WASHINGTON
BOULEVARD, NORTHEAST OF ROLLING ROAD

LEGEND

- EXISTING TREE
- EXISTING EDGE PAVING
- PROPOSED ASPHALT PAVING
- EXISTING CONCRETE PAVING
- EXISTING BUILDING
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING BOUNDARY LINE
- EXISTING FENCE
- EXISTING INLET/STORM DRAIN
- PROPOSED STORM DRAIN
- EXISTING LIGHT POLE
- LIMIT OF DISTURBANCE

- NOTE:
- THE PROPOSED GRADING SHOWN ON THIS PLAN MEETS THE REQUIREMENTS SET FORTH BY BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND RESOURCE MANAGEMENT AND COMPLES WITH ARTICLE 33, TITLE 5 OF THE BALTIMORE COUNTY CODE. HOWEVER, DUE TO BUILDING TYPES AND LAYOUT, SOME FIELD ADJUSTMENTS MAY BE REQUIRED. ALL CHANGES MUST COMPLY WITH THE ABOVE MENTIONED REQUIREMENTS.
 - ALL SWALES HAVE BEEN DESIGNED BY THE ENGINEER TO CONVEY RUNOFF ACCORDING TO BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS DESIGN STANDARDS.
 - THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION OR DISTURBANCE OF VEGETATION IN THE FOREST BUFFER EASEMENT OR OTHER FOREST RETENTION AREAS, EXCEPT AS PERMITTED BY THE BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY.
 - STORMWATER MANAGEMENT HAS BEEN ADDRESSED THROUGH ENVIRONMENTAL SITE DESIGN.

GRADING NOTES

- ALL PROP. SPOT ELEVATIONS ARE SET AT BOTTOM OF CURB OR TOP OF PAVING, U.C.N.
- ALL FILL AND BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-1557 SPECIFICATIONS.

OWNER'S/DEVELOPER'S CERTIFICATION-AIR QUALITY:
I ACKNOWLEDGE THAT I AM RESPONSIBLE UNDER THE CODE OF MARYLAND REGULATIONS (26.11.08.03) TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE DUE TO GRADING, LAND CLEARING, EXCAVATION, CONSTRUCTION OR OTHER RELATED ACTIVITIES. I WILL CONTACT THE WASTE MANAGEMENT AND AIR QUALITY SECTION (410) 887-4065 AT LEAST 3-DAYS PRIOR TO BEGINNING WORK.

SIGNATURE OWNER/DEVELOPER: *Kevin Fitz* TITLE: *Director, Construction & Facilities* DATE: *8-16-11*

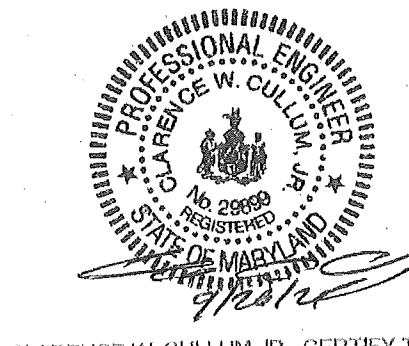
OWNER'S/DEVELOPER'S CERTIFICATION:
I/WE CERTIFY THAT ALL GRADING ON THIS SITE WILL BE DONE IN ACCORDANCE WITH THE CURRENT GRADING REQUIREMENTS AS SET FORTH BY THE BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY AND WITH THE REQUIREMENTS SPECIFIED IN ARTICLE 33, TITLE 5 OF THE BALTIMORE COUNTY CODE.

SIGNATURE OWNER/DEVELOPER: *Kevin Fitz* TITLE: *Director, Construction & Facilities* DATE: *8-16-11*

ENGINEER'S CERTIFICATION
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED BY ME OR UNDER MY SUPERVISION AND MEETS THE MINIMUM STANDARD OF THE BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND RESOURCE MANAGEMENT.

SIGNATURE: *Kevin Fitz* P.E. No. *18516* DATE: *7-22-11*

TOTAL DISTURBANCE AREA = 3.29 Ac (143,457 SF)



CLARENCE W. CALLUM, JR., CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
EXP. DATE: 01/13/2022
LICENSE NO.: 18516
FOR REUSE/REVISION BY ONLY

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE No. 18516 EXPIRATION DATE: 12/01/11

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
235 SCHILLING CIRCLE, SUITE 103
HUNT VALLEY, MARYLAND 21031
(410) 786-6040



THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

OWNER/DEVELOPER
ESTES EXPRESS LINES
3901 WEST BROAD STREET
RICHMOND, VA 23230
PH: 804-353-1900

NO.	DATE	REVISIONS	BY
1	7/27/11	ADDED CONCRETE PADS	
2			
3			
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GRADING & UTILITY PLAN
ESTES EXPRESS LINES
5101 WASHINGTON BLVD.
BALTIMORE, MD
ELECTION DISTRICT: 13

Anchor Brazil Polo

of, high-strength
d for drill-mount

Top Cap - Weatherproof, high-strength plastic cap is provided for drill-mount poles.

Finish - Dark bronze polyester powder paint (DDB) standard; optional polyester powder paint finishes available.

Base Cover - Full-base cover finished to match pole.

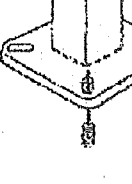
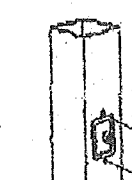
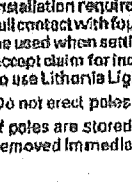
Ordering information: See page 434

INSTALLATION NOTES:

Equalizer springs go to be pushed under frame to arm full extension with vehicle on level ground. Protective cap must be used when setting anchor bolts. Lithonia Lighting will be supplied with the necessary hardware to connect the dual inlets to a 4-1/2" Lithonia Lighting fixture assembly.

Do not cut cables without having fixture installed.

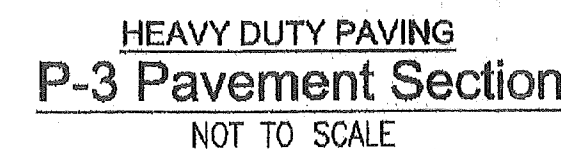
If cables are sliced inside of protective wrapping must be removed immediately to prevent fire/damage.



1. Mounting Arrangement: IPT Open Top: (720) 214-0000
(2" NPS)
2. Drill Mounting: (DM16) 1" hole at 50°; (DM20) 2" hole at 100°
3. Options: See page 500.
4. Specifications: See page 500.



NOT TO SCALE
SEE HO. CO. STD. DTL. R-3.01



ON SLOPE AREAS
NOT TO SCALE



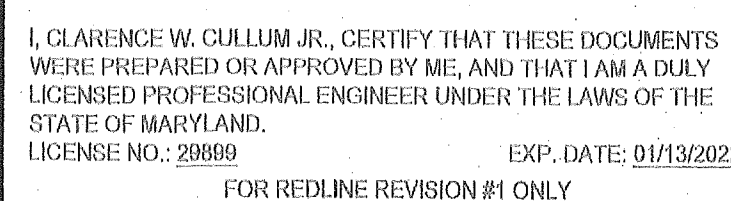
NOT TO SCALE



NOT TO SCALE

ABBREVIATIONS

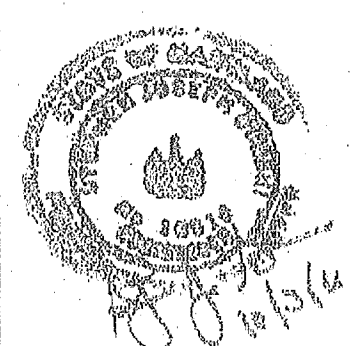
PROP.	PROPOSED
EX.	EXISTING
CONC.	CONCRETE
TYP.	TYPICAL
APPROX.	APPROXIMATE
LOC.	LOCATION
SD	STORM DRAIN
EP	EDGE OF PAVEMENT
TG	TOP OF GRADE
BSL	BUILDING SETBACK LINE
INV.	INVERT
RBO	RELOCATE POLE BY OTHERS
LF	LINEAR FEET
MAINT.	MAINTENANCE



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE No. **18516** EXPIRATION DATE: **12/01/11**

235 SCHILLING CIRCLE, SUITE 103
HUNT VALLEY, MARYLAND 21031
(410) 785-6640



REOLINE REVISION #1 APPROVED 10/28/21 Kru

SITE NOTES, DETAILS AND LEGEND

ESTES EXPRESS LINES
5101 WASHINGTON BLVD.

BALTIMORE, MD
PLAT 855

ELECTION DISTRICT: 13

STORMWATER MANAGEMENT NOTES

THIS CONSTRUCTION MAY REQUIRE A PERMIT FROM THE ARMY CORPS OF ENGINEERS, THE WATER RESOURCES ADMINISTRATION AND/OR BALTIMORE COUNTY. IT IS THE RESPONSIBILITY OF THE LANDOWNERS TO CONTACT THESE AGENCIES TO DETERMINE IF THE PROJECT REQUIRES A PERMIT.

ARMY CORPS OF ENGINEERS (410) 882-3670
WATER RESOURCES ADMINISTRATION (410) 874-3841
BALTIMORE COUNTY (410) 887-3880

UNLESS OTHERWISE NOTED, ALL CONSTRUCTION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH:

- BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR CONSTRUCTION MATERIALS, DECEMBER 2007, ERRATA & ADDENDA.
- NATURAL RESOURCES CONSERVATION SERVICE OF MARYLAND STANDARDS AND SPECIFICATIONS, FOND, CODE 378, JANUARY 2000.
- MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION, JULY 2008, STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIAL.

STORMWATER MANAGEMENT APPROVED UNDER BILL NO. 53-01. STORMWATER MANAGEMENT APPROVED UNDER BILL NO. 53-01. THE STORMWATER MANAGEMENT FACILITY IS DESIGNED TO MEET OR EXCEED ALL APPLICABLE REQUIREMENTS OF THE BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS AND THE SOIL CONSERVATION DISTRICT. MAINTENANCE OF THESE FACILITIES WILL BE THE RESPONSIBILITY OF THE OWNER. (THE SWM FACILITY IS PRIVATE).

NO TREES OR SHRUBS ON OR WITHIN 15' OF THE TOE OF SLOPE OF A CONSTRUCTED POND EMBANKMENT, OR WITHIN 25' OF THE CONTROL STRUCTURE.

FENCING SHALL BE INSTALLED TO PREVENT ACCESS TO THE SWM FACILITY BY CHILDREN.

SWM BMP SEQUENCE OF CONSTRUCTION

ONCE SEDIMENT CONTROL MEASURES HAVE BEEN PROPERLY INSTALLED AND MAJOR CONSTRUCTION COMPLETED, THE STORMWATER MANAGEMENT STRUCTURES/BMP'S MAY BE BUILT. NOTE THAT SOME OF THE VARIOUS BMP'S MAY BE CONSTRUCTED CONCURRENTLY.

- UPON COMPLETION OF SITE CONSTRUCTION, THE SEDIMENT TRAP MAY BE CONVERTED TO USE AS A SWM POND.
- EXCAVATE ACCUMULATED SEDIMENT FROM THE BOTTOM OF THE TRAP.
- REMOVE ANY ROCK USED TO BLOCK OPENINGS OR WEIR IN RISERS.
- STABILIZE ANY DISTURBED AREAS IN OR SURROUNDING THE POND.

GROUNDWATER RECHARGE STRUCTURE AND SURFACE SAND FILTER

- ENSURE THAT ALL INLETS REMAIN BLOCKED DURING CONSTRUCTION UNTIL CONVERSION TO STORMWATER MANAGEMENT.
- UPON COMPLETION OF SITE CONSTRUCTION, THE GROUNDWATER RECHARGE STRUCTURE AND SURFACE SAND FILTER MAY BE CONSTRUCTED.
- EXCAVATE THE STONE STORAGE AREA AND SAND FILTER AREA.
- INSTALL FILTER CLOTH, DRAINS, FILTER BED MEDIA # 2 STONE AND PROPER GROUND COVER (5" PERMEABLE TOPSOIL-50/50 SAND/SOIL MIX).
- STABILIZE ANY DISTURBED AREAS IN OR SURROUNDING THE FILTER.

AS-BUILT NOTES:

AS-BUILT PLANS AND CERTIFICATION ARE REQUIRED FOR THIS STORMWATER MANAGEMENT FACILITY. THESE MUST BE PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER. BALTIMORE COUNTY WILL NOT PERFORM THE INSPECTION OR PREPARE THE AS-BUILT PLANS OR CERTIFICATION. THE STORMWATER MANAGEMENT PERMIT SECURITY WILL NOT BE RELEASED UNTIL THE AS-BUILT PLANS AND CERTIFICATION ARE APPROVED BY BALTIMORE COUNTY.

IN ORDER TO PREPARE THE REQUIRED AS-BUILT PLANS AND CERTIFICATION, THIS STORMWATER MANAGEMENT FACILITY MUST BE INSPECTED BY THE ENGINEER AT SPECIFIC STAGES DURING CONSTRUCTION AS REQUIRED BY THE CURRENT BALTIMORE COUNTY STORMWATER MANAGEMENT POLICY AND DESIGN MANUAL. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING ANY WORK SHOWN ON THESE PLANS.

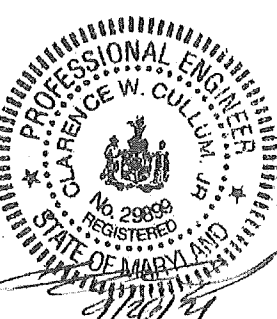
NOTE: BALTIMORE COUNTY WILL NOT ACQUIRE THE SWM FACILITY IN FEE UNTIL THE CROWN VECH GROUND COVER IS UNIFORMLY ESTABLISHED.

NOTE: IF UNSUITABLE (PERVIOUS) MATERIAL IS ENCOUNTERED AT TIME OF CUTOFF TRENCH INSTALLATION DEEPER THAN 4", IT WILL BE NECESSARY TO EXTEND THE CUTOFF TRENCH DOWN UNTIL SUITABLE MATERIAL IS ENCOUNTERED AS DETERMINED BY A GEOTECHNICAL ENGINEER. AT TIME OF CONSTRUCTION, EXISTING SOIL ADJACENT TO CUTOFF TRENCH SHALL BE EVALUATED FOR SEEPAGE BY A GEOTECHNICAL ENGINEER AND ADDRESSED PER RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.

SOILS TO BE USED FOR CUTOFF TRENCH AND IMPERVIOUS CORE SHALL CONFORM TO UNIFIED CLASSES CL, CH, CC OR SC.

IF NO SUITABLE MATERIAL CAN BE FOUND ON SITE, "SOILS CONFORMING TO THE UNIFIED SOIL CLASSES CL, CH, CC, OR SC" SHALL BE OBTAINED OFF-SITE AND SHALL BE VERIFIED BY A MARYLAND REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER.

FOR THE AS-BUILT PLANS TO BE APPROVED, A SWM AS-BUILT REPORT, INCLUDING INFORMATION SUCH AS STAGE-STORAGE-DECHARGE CALCULATIONS WILL BE REQUIRED TO DEMONSTRATE THAT THE FACILITY, AS CONSTRUCTED, MEETS THE ORIGINAL DESIGN INTENT.



I, GEORGE W. STEPHENS, JR., CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. EXP. DATE: 01/13/2022. LICENSE NO.: 18516. FOR REUSE/REVISION BY ONLY.

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 18516 EXPIRATION DATE: 12/01/11
DATE: 8-10-11

CONSULTANT'S HAZARD CLASS CERTIFICATION

I CERTIFY THAT THIS POND MEETS ALL REQUIREMENTS FOR HAZARD CLASS (D) B OR (C) REQUIREMENTS AS STATED IN THE SOIL CONSERVATION SERVICE MARYLAND STANDARDS AND SPECIFICATIONS FOR POND, CODE 378, NOVEMBER 1985. I HAVE NECESSARY INVESTIGATIONS AND COMPUTATIONS HAVE BEEN PERFORMED TO VERIFY THIS FINDING. A COPY OF SOI INFORMATION HAS BEEN SUPPLIED TO S.C.S./B.C.S.C.D.

SIGNATURE: *[Signature]* MD. LICENSE NO. 18516
PRINT NAME: STEPHEN J. GORSEK DATE: 8-10-11

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE (AS-BUILT) PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

SIGNATURE: _____ P.E. NO. _____
PRINT NAME: _____ DATE: _____

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED BY ME OR UNDER MY SUPERVISION AND MEETS THE MINIMUM STANDARDS OF THE BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND RESOURCE MANAGEMENT.

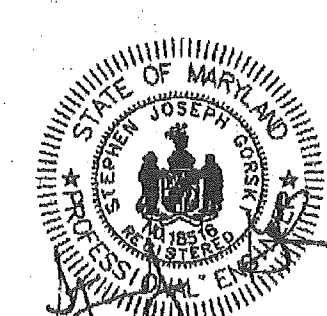
SIGNATURE: *[Signature]* P.E. NO. 18516
PRINT NAME: STEPHEN J. GORSEK DATE: 8-10-11

LANDOWNER'S/DEVELOPER'S CERTIFICATION

I/WE HEREBY CERTIFY THAT ALL WORK SHOWN ON THESE CONSTRUCTION DRAWINGS WILL BE ACCOMPLISHED PURSUANT TO THESE PLANS. I/WE ALSO UNDERSTAND THAT IT IS MY/OUR RESPONSIBILITY TO HAVE THE CONSTRUCTION SUPERVISED AND CERTIFIED, INCLUDING THE SUBMITTAL OF (AS-BUILT) PLANS WITHIN THIRTY (30) DAYS OF COMPLETION, BY A REGISTERED PROFESSIONAL ENGINEER.

SIGNATURE OWNER/DEVELOPER: *[Signature]* DATE: 8-16-11
PRINT NAME: J. J. PITT DIRECTOR OF CONST. PER.

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
235 SCHILLING CIRCLE, SUITE 103
HUNT VALLEY, MARYLAND 21031
(410) 785-8840



OWNER/DEVELOPER
ESTES EXPRESS LINES
3901 WEST BROAD STREET
RICHMOND, VA 23230
PH: 804-353-1900

NO.	DATE	REVISIONS	BY	SHEET
1	7/27/11	ADDED CONCRETE PADS	GWS	1 OF 2

SCALE: 1" = 50'
DATE: 07/27/11
JOB NO.: 1122-1
DES: EJV
DRA: DGG
CHK: SJG
FILE
DRAWING NUMBER: SWM-1
BALTIMORE, MD
PLAT REF:

SWM DRAINAGE AREA MAP
ESTES EXPRESS LINES
5101 WASHINGTON BLVD.
ELECTION DISTRICT: 13

WASHINGTON BOULEVARD

METROPOLITAN BOULEVARD I-195

HARBOR TUNNEL APPROACH I-895

LEGEND

- EXISTING EDGE PAVING
- PROPOSED ASPHALT PAVING
- EXISTING CONCRETE PAVING
- EXISTING BUILDING
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING BOUNDARY LINE
- EXISTING FENCE
- EXISTING INLET/STORM DRAIN
- PROPOSED STORM DRAIN
- EXISTING LIGHT POLE
- DRAINAGE DIVIDE

VICINITY MAP

SCALE: 1" = 1000'

BENCHMARK

X 3983 S 27395.68
ELEV. 52.448 N 24023.72
GALVANIZED SPIKE IN MACADAM SHOULDER
ON SOUTHEAST SIDE OF WASHINGTON
BOULEVARD, NORTHEAST OF ROLLING ROAD

SITE NOTES

- SITE AREA = 19.89 AC (±)
- EX. BLDG AREA
6,400 SF (±) MAINT. BLDG
54,360 SF (±) TRUCKING FACILITY
60,780 SF (±)
- ZONING: MH-IM; ML-IM; ML-CS-1
- "TNT RED STAR EXPRESS" EX. WQ FACILITY
AND EXTENDED DETENTION SWM FACILITY
PLANS WERE APPROVED BY BALTIMORE
COUNTY DEPRM ON SEPTEMBER 18, 1995.
- NO STEEP SLOPES OR ERODIBLE SOILS
PRESENT ON-SITE.
- PROPOSED IMPERVIOUS AREA = 104,000 SF (±)
- SITE LOCATED IN PATAPSCO RIVER WATERSHED

SOIL DATA

ABBREVIATION	NAME	H.S.G.
UcF	UDORTHENTS.	D
Ur	URBAN LAND	D

APPROVAL SIGNATURES

BALTIMORE COUNTY SOIL CONSERVATION DISTRICT APPROVED FOR STORMWATER MANAGEMENT

[Signature] DATE: 135-41512-11 PLAN NUMBER: 8-29-V

BY: *[Signature]* DATE: 8-29-V

BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION & RESOURCE MANAGEMENT

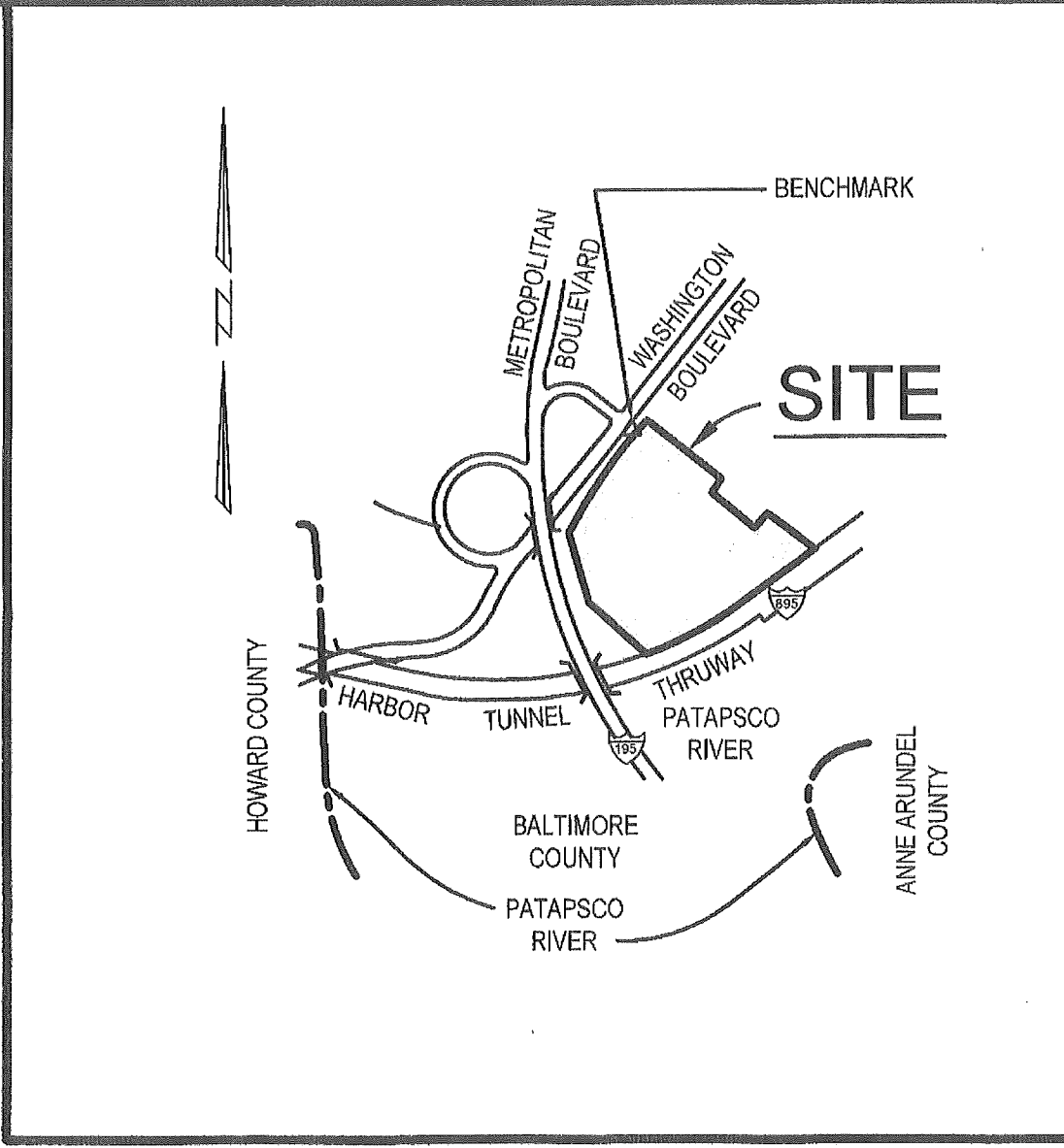
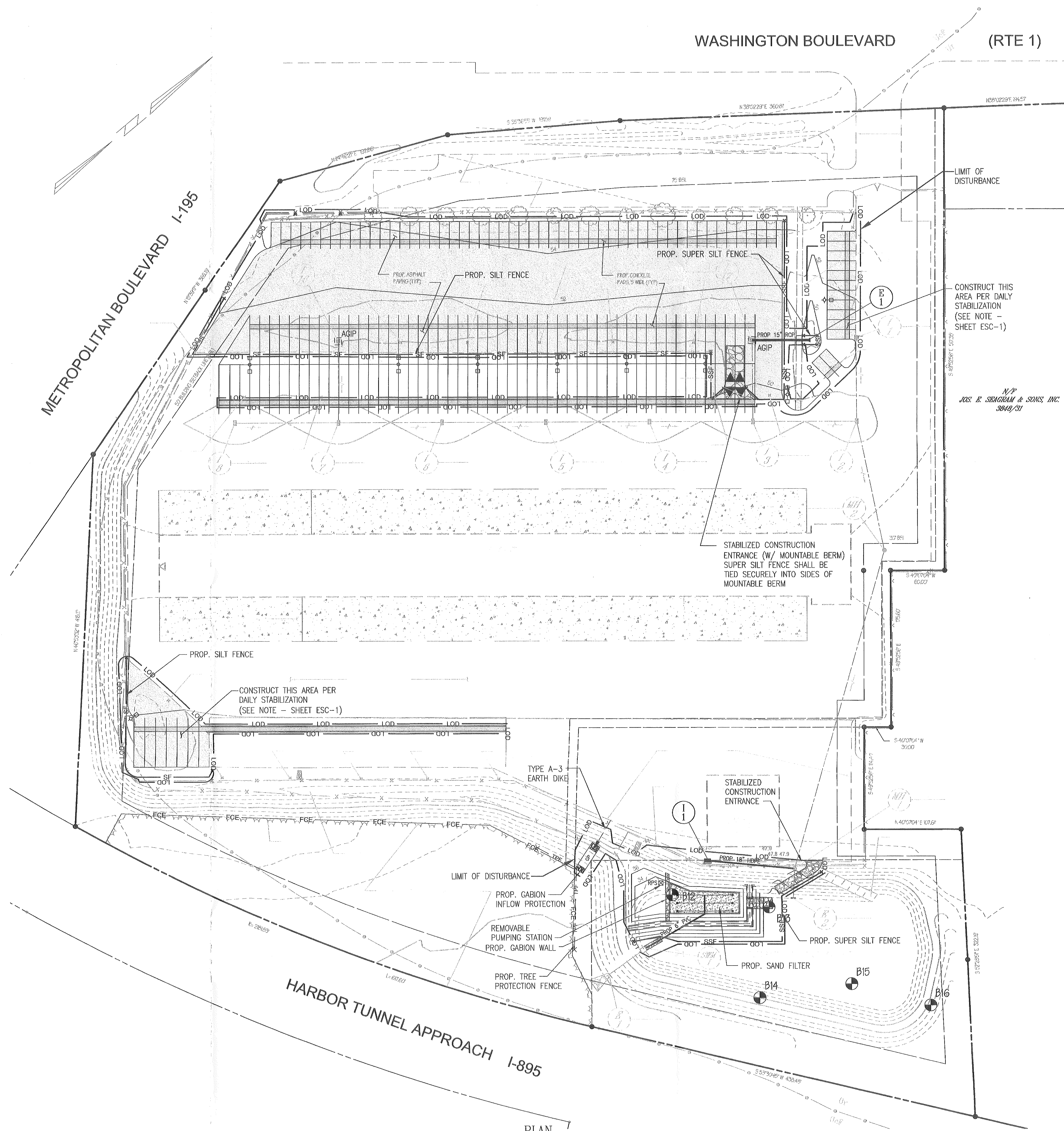
REDLINE REVISION BY APPROVED 10/28/11

[Signature] DATE: 8-29-V

APPROVED: *[Signature]* DATE: 8-29-V

STORMWATER MANAGEMENT ENVIRONMENTAL PROTECTION & RESOURCE MANAGEMENT

BMD VERTICAL DATUM
NAD 83/1991 HORIZONTAL DATUM



VICINITY MAP
SCALE: 1" = 1000'

LEGEND

- PROPERTY LINE
- EX. CONTOURS
- PROP. CONTOURS
- EX. BUILDINGS
- PROP. ASPHALT PAVING
- PROP. CONCRETE PADS
- EX. CONCRETE PAVING
- BUILDING SETBACK LINE
- EX. TREELINE
- EX. EDGE PAVING
- EX. FENCE
- EX. LIGHT POLE
- EX. INLET/STORM DRAIN
- DRAINAGE DIVIDE

SEDIMENT CONTROL LEGEND

- LIMIT OF DISTURBANCE
- SILT FENCE
- SUPER SILT FENCE
- SUPER FENCE DIVERSION
- EARTH DIKE
- TEMPORARY SWALE
- RIP RAP INFLOW PROTECTION
- GABION INFLOW PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE W/ MOUNTABLE BERM
- REMOVABLE PUMP STATION
- SILT FENCE CHECK DAM
- CROSSABLE SWALE
- BITUMINOUS CURB DIVERSION
- INLET PROTECTION
- BAFFLES
- SOILS BOUNDARY

PLAN
SCALE: 1" = 50'

TOTAL DISTURBANCE AREA = 157,244 SF± OR 3.61 Ac

PROFESSIONAL CERTIFICATION
I, CLARENCE W. CULLUM, JR., HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 28899 EXPIRATION DATE: 01/01/2022

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
4692 MILLENNIUM DRIVE, SUITE 100
BELCAMP, MARYLAND 21017
(410) 297-2340



OWNER/DEVELOPER
ESTES EXPRESS LINES
3901 WEST BROAD STREET
RICHMOND, VA 23230
PH: 804-353-1900

NO.	DATE	REVISIONS	BY	SHEET	2 OF 4

PROPOSED SEDIMENT CONTROL PLAN
ESTES EXPRESS LINES
5101 WASHINGTON BLVD.
BALTIMORE, MD
COUNCILMANIC DISTRICT: 13-005
ELECTION DISTRICT: 13

BALTIMORE COUNTY GENERAL E.S.C. NOTES:

- 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 REUSE THE CODES FOR ANY SEDIMENT CHANGES IN SEDIMENT CONTROL PRACTICES BEFORE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE BALTIMORE COUNTY SOIL CONSERVATION DISTRICT FOR BEST CONTROL.
- AT THE END OF EACH WORKING DAY, ALL SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AND LEFT IN OPERATIONAL CONDITION.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN A) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERMETER CONTROLS, DICES, 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 CONSTRUCTION.
- ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO BALTIMORE COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL.
- BEST CONTROL WILL BE PROVIDED FOR ALL DISTURBED AREAS. REFER TO "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", PG. B-21, FOR ACCEPTABLE METHODS AND SPECIFICATIONS FOR BEST 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 GUIDELINES TO WATERWAY CONSTRUCTION" BY THE WATER MANAGEMENT ADMINISTRATION OF THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, REVISED NOVEMBER 2005, FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN FOR WATERWAY CONSTRUCTION.
- PUMPABLE SEEDING-LATER WATER INTO WATERS OF THE STATE IS STRICTLY PROHIBITED, ANY PUMPING DRAINAGE DRAINAGE MUST BE LOCATED WITHIN THE LIMIT OF DISTURBANCE.

STANDARD STABILIZATION NOTE:

- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:
- THREE (3) CALENDAR DAYS AS TO THE AS TO THE SURFACE OF ALL PERMETER DICES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1);
 - SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

H-1. STANDARDS AND SPECIFICATIONS

FOB

MATERIALS

Table H-1: Geotextile Fabrics

PROPERTY	TEST METHOD	WOVEN SUELFILM			WOVEN MONOPOLYMER GEOTEXTILE			NONWOVEN NONWETTABLE		
		ASTM D-4632	MD	CD	MD	CD	MD	CD	MD	CD
Grab Tensile Strength	ASTM D-4632	200 lb	200 lb	370 lb	250 lb	200 lb	200 lb	200 lb	200 lb	200 lb
Grab Tensile Elongation	ASTM D-4632	15%	10%	15%	15%	15%	15%	15%	15%	15%
Triaxial Tensile Strength	ASTM D-4533	15%	10%	15%	15%	15%	15%	15%	15%	15%
Seepage Strength	ASTM D-5581	400 lb	400 lb	900 lb	900 lb	900 lb	900 lb	900 lb	900 lb	900 lb
Aggregate Crushing Value ¹	ASTM D-4751	0.5 mm sieve	0.5 mm sieve	0.5 mm sieve	0.5 mm sieve	0.5 mm sieve	0.5 mm sieve	0.5 mm sieve	0.5 mm sieve	0.5 mm sieve
Permeability	ASTM D-4903	0.0001 cm/sec	0.0001 cm/sec	0.0001 cm/sec	0.0001 cm/sec	0.0001 cm/sec	0.0001 cm/sec	0.0001 cm/sec	0.0001 cm/sec	0.0001 cm/sec
Unconfined Compressive Strength at 200 hours	ASTM D-4535	70% strength	70% strength	70% strength	70% strength	70% strength	70% strength	70% strength	70% strength	70% strength

¹ All numeric values except apparent open space (AOS) represent minimum average roll widths (MAWV). MAWV is calculated as the typical minus two standard deviations. MD is machine direction, CD is cross direction.

² Values for AOS represent the average minimum opening.

Geotextiles must be evaluated by the National Transportation Product Evaluation Program (NTEPP) and conform to the values in Table H-1.

The geotextile must be tested in commonly encountered chemicals and hydrocarbons and must be not melt and must be resistant to degradation from long chain hydrocarbons and petroleum products. The geotextile must be tested in commonly encountered chemicals and hydrocarbons and must be not melt and must be resistant to degradation from long chain hydrocarbons and petroleum products. The geotextile must be tested in commonly encountered chemicals and hydrocarbons and must be not melt and must be resistant to degradation from long chain hydrocarbons and petroleum products.

When areas have been section of geotextile is necessary, verify the section by a test one foot. The geotextile must be tested in commonly encountered chemicals and hydrocarbons and must be not melt and must be resistant to degradation from long chain hydrocarbons and petroleum products. The geotextile must be tested in commonly encountered chemicals and hydrocarbons and must be not melt and must be resistant to degradation from long chain hydrocarbons and petroleum products.

MAA SEEDING SPECIFICATIONS

SECTION 32920X.1 SEEDING

Include MAA Landscaping Reference "Approved Installation Methods" in the Contract Documents when using this specification.

PART 1 - GENERAL

- GENERAL.** This item provides specifications for seeding of areas as designated on the Contract Drawings or as directed by the MAA Engineer. The species, mixtures, and methods of application provided in this item have been designed to reduce the attractiveness of wildlife to wildlife. Only MAA-approved species, mixtures, and methods of application provided in this item may be used to establish vegetation. All activities associated with seeding including soil preparation, seed application, fertilization, and maintenance shall also conform to these approved standards.

PART 2 - PRODUCTS

- SEED.** All seed shall comply with the Maryland Seed Law (Agricultural Article of the Annotated Code of Maryland). Only MAA-approved species, mixtures, and rates of application provided in this item may be used to establish vegetation. Seed will be sampled and tested by an inspector from the Turf and Seed Section, Maryland Department of Agriculture (MDA), Annapolis, Maryland. All laws and turf seed and seed mixtures shall be free from the following state-listed restricted noxious weeds:
 - Common Cockle (*Agrostis gigantea*),
 - Redtop (*Agrostis gigantea*),
 - Wild Onion (*Allium canadense*),
 - Wild Garlic (*Allium vineale*),
 - Doanweed (*Chenopodium* sp.),
 - Blackweed (*Cirsium* sp.),
 - Stemless Grass (*Cynodon dactylon*),
 - Chenopodium (*Chenopodium* sp.),
 - Tall Fescue (*Festuca arundinacea*),
 - Smooth Fescue (*Festuca pratensis*),
 - Yellowgrass (*Helianthus annuus*),
 - Annual Bluegrass (*Poa annua*),
 - Rough Bluegrass (*Poa trivialis*),
 - Timothy (*Phleum pratense*), and
 - Johnsongrass (*Sorghum halepense*).

Restricted noxious-weed seed may not exceed 0.5 percent by weight of any seed mixture. In addition, all seeds shall be free from the following listed prohibited noxious weeds:

These species may be included as a labeled component of a mixture when such is present in excess of five percent of the mixture by weight.	Technical Specification Seeding
MAA-CO-200-XXX CONTRACT TITLE BVI Material Approval/Marka Data Approval	32920X.1

PART 3 - EXECUTION

- GENERAL.** This section provides approved methods for the application of and includes standards for seedbed preparation, methods of application, and equipment to be used during the process. Line and fertilizer shall be applied to seeded areas before the seed is spread. The mixture of seed will be determined for sites based on environmental conditions as described in Paragraph 2.1.C.
- ADVANCE PREPARATION.** Areas designated for seeding shall be properly prepared in advance of seed application. The area shall be tilled and graded prior to application of line and fertilizer, and the surface area shall be cleaned of any stones larger than 1 inch in diameter, sticks, stumps, and other debris that might interfere with sowing of seed, growth of grasses, or subsequent maintenance of grass-covered areas. Damage caused by erosion or other forces that occur after the completion of grading shall be repaired prior to the application of fertilizer and line. The Contractor will repair such damage, which may include filling gullies, smoothing irregularities, and repairing other incidental damage before beginning the application of fertilizer and ground limestone.

If an area to be seeded is sparsely sodded, weedy, barren and unworked, or packed and hard, all grass and weeds shall first be cut or otherwise satisfactorily disposed of, and the soil then scarified or otherwise loosened to a depth not less than 3 inches (75 mm). Cloths shall be broken and the top 3 inches (75 mm) of soil shall be worked into a satisfactory condition by disking or by use of cultivators, rollers, drag, harrows, or other appropriate means.

An area to be seeded shall be considered a satisfactory seedbed (without requiring additional treatment) if it has recently been thoroughly loosened and worked to a depth of not less than 5 inches; the top 3 inches of soil is loose, friable, and is reasonably free from large clods, rocks, large roots, or other undesirable matter; appropriate amounts of fertilizer and lime have been added; and, if it has been stepped to the required grade immediately prior to seeding. For slope areas deeper than 3:1 (three horizontal to one vertical), the subsoil shall be to a depth of 1' inch.

After completion of tilling and grading, line and fertilizer shall be applied within 48 hours according to the methods in Paragraph 2.2.2 and methods in Paragraphs 3.3.A and 3.3.B) approved by MAA. The seeding mixtures shall be applied within 48 hours after application of line and fertilizer. To limit the seeded areas, cultivating shall occur immediately after seeding.

- METHODS OF APPLICATION.** Line, fertilizer, and seed mixes shall be applied by either the dry or wet application methods that have been approved by MAA and are detailed below.

A. DRY APPLICATION METHOD

MAA-CO-200-XXX CONTRACT TITLE BVI Material Approval/Marka Data Approval	Technical Specification Seeding
MAA-CO-200-XXX CONTRACT TITLE BVI Material Approval/Marka Data Approval	32920X.1

Balloisvine (*Cynodactylon holostachys*), Quackgrass (*Elytrigia repens*), Sicklepod (*Senna obtusifolia*), Soughum (*Sorghum* sp.), Canada Thistle (*Cirsium arvense*), Plumbeous Thistle (*Cirsium sp.*), and Canada Thistle (*Cirsium arvense*), and Serrated Tussock (*Nassella trichostoma*).

- APPROVED SPECIES.** The following table contains species that are approved by MAA for use in seed mixtures. Purity requirements and germination requirements are also provided.

APPROVED PLANT SPECIES			
MAA SEED MIXTURES			
	Purity ¹ Not Less than %	Minimum % Germination ²	Pure Live Seed Factor
Confined Turf-Type Tall Fescue (<i>Festuca arundinacea</i>)	94	90	1.13
Confined Kentucky Bluegrass (<i>Poa pratensis</i>)	90	80	1.39
Fowl Bluegrass (<i>Poa polystricha</i>)	90	80	1.39
Hard Fescue (<i>Festuca longicaulis</i>)	94	90	1.13
Chenopod Ryegrass (<i>Festuca rubra</i> ssp. <i>convallaria</i>)	94	90	1.13
Annual Ryegrass (<i>Lolium temulentum</i>)	95	85	1.24
Perennial Ryegrass (<i>Lolium perenne</i>)	90	80	1.39
Crimping Ryegrass (<i>Lolium multiflorum</i>)	90	80	1.39
Swivelgrass (<i>Festuca ovina</i>)	90	80	1.39
Lille Rhinoma	62	94	1.71

