

# MDOT MARYLAND DEPARTMENT OF TRANSPORTATION

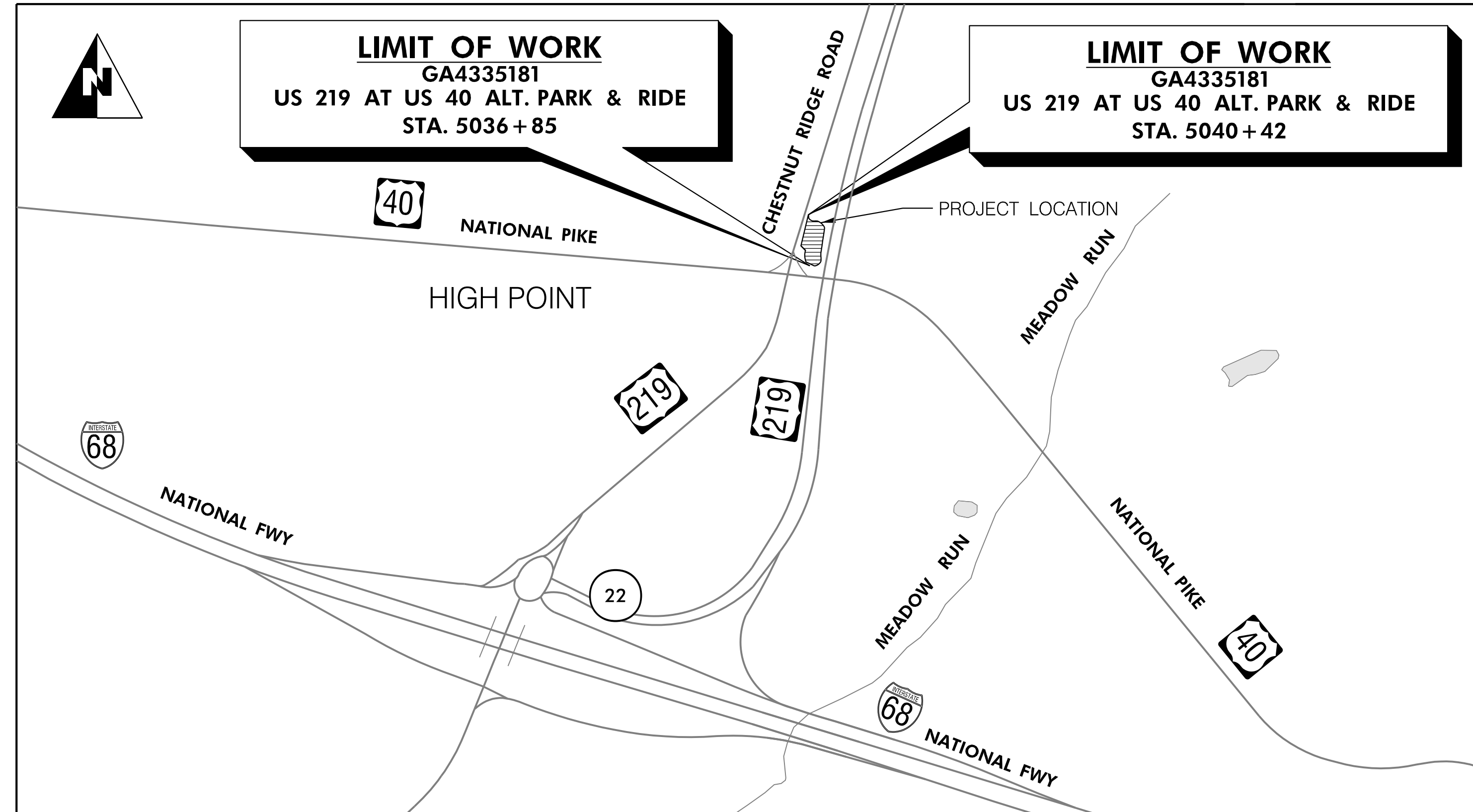
## STATE HIGHWAY ADMINISTRATION

**S.H.A. CONTRACT NO. – GA4335181**  
**FEDERAL AID PROJECT NO. – #####**

### US 219 AT US 40 ALT. PARK & RIDE

**INDEX OF SHEETS**

NO.	DWG NO.	DRAWING TITLE
1	-	TITLE SHEET
2	GN - 01	GENERAL NOTES, ABBREVIATIONS & DETAILS
3	GS - 01	GEOMETRIC LAYOUT
4	PS - 01	SITE PLAN
5	GR - 01	GRADING AND CURB LAYOUT PLAN
6	SW - 01	STORMWATER MANAGEMENT PLAN
7 - 9	ES-N1 TO ES-N3	EROSION AND SEDIMENTATION CONTROL GENERAL NOTES
10	PH - 01	PHOTOMETRIC PLAN



**GARRETT COUNTY**

HORIZONTAL DATUM	NAD 83 /91
VERTICAL DATUM	NAVD 88

**LENGTH OF PROJECT:**  
**US 219 = 0.07 MILES**



**GEOMETRIC DESIGN CRITERIA**

THIS PROJECT WAS DESIGNED IN ACCORDANCE WITH THE 2018 PUBLICATION OF AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS."

**STANDARD SPECIFICATIONS BOOK, BOOK OF STANDARDS AND MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MdMUTCD)**

ALL WORK ON THIS PROJECT SHALL CONFORM TO: THE LATEST APPROVED MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION (SHA) "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS" REVISIONS THEREOF OR ADDITIONS THERETO, AS INDICATED IN THE PROJECT DESCRIPTION OF THE INVITATION FOR BIDS BOOK; THE SPECIAL PROVISIONS INCLUDED IN THE INVITATION FOR BIDS BOOK; THE ADMINISTRATION'S "BOOK OF STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES" AND THE LATEST VERSION OF MdMUTCD.

**RIGHT OF WAY**

RIGHT OF WAY AND EASEMENT LINES SHOWN ON THESE PLANS ARE FOR ASSISTANCE IN INTERPRETING THE PLANS. THEY ARE NOT OFFICIAL. FOR OFFICIAL FEE RIGHT OF WAY AND EASEMENT INFORMATION, SEE APPROPRIATE RIGHT OF WAY PLATS.

**UTILITIES**

THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE OF THE ACCURACY OF SAID LOCATIONS.

**ADA COMPLIANCE**

THE DESIGN OF THIS PROJECT HAS INCORPORATED FACILITIES TO ACCOMMODATE PERSONS WITH DISABILITIES IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS.

**ENVIRONMENTAL INFORMATION**

ALL STORMWATER MANAGEMENT FACILITIES CONSTRUCTED FOR THIS CONTRACT SHALL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE SHA BEST MANAGEMENT PRACTICES (BMP) INSPECTION AND REMEDIATION PROGRAM.

**STANDARD STABILIZATION NOTE:**

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1), AND SEVEN DAYS (7) AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

**OWNERS / DEVELOPERS 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 THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY MDE COMPLIANCE INSPECTORS.

**EXISTING STRUCTURES PLANS**

FOR THE CONVENIENCE AND INFORMATION OF BIDDERS, PRINTS OF PLANS OF EXISTING PERTINENT STRUCTURE(S) ARE INCLUDED WITH THIS CONTRACT. NO RESPONSIBILITY FOR THEIR ACCURACY OR COMPLETENESS IS ASSUMED BY THE SHA. DIMENSIONS, DETAILS, ETC., AS SHOWN THEREON MAY NOT BE AS BUILT.

**NOT FOR CONSTRUCTION**  
**30% PRELIMINARY INVESTIGATION**  
**DECEMBER 2023**

STORMWATER AND SEDIMENT CONTROL FINAL APPROVAL	MODIFICATIONS
APPROVED _____ DATE _____	
DIVISION CHIEF, PLAN REVIEW DIVISION	
PRD NO: _____ EXPIRATION DATE: _____	

REVIEWED AND APPROVAL RECOMMENDED _____ DATE _____	
DIVISION CHIEF, HIGHWAY DESIGN DIVISION	
APPROVAL RECOMMENDED _____ DATE _____	
DIRECTOR, OFFICE OF HIGHWAY DEVELOPMENT	
APPROVED _____ DATE _____	
CHIEF OPERATIONS OFFICER / DEPUTY ADMINISTRATOR FOR DISTRICT OPERATIONS	

DESIGN DESIGNATION	SURVEY BOOK NUMBERS	RIGHT OF WAY PLAT NUMBERS	REVISIONS
ROADWAY	US 219	60775	NOTE: SEE SHEET NO. 2 FOR LIST OF REVISED SHEET NUMBERS
ROADWAY LENGTH (MILES)	0.07		
CONTROLS YEARS	2023	2043	
AVERAGE DAILY TRAFFIC (A.D.T.)	6885	8400	
DESIGN HOURLY VOLUME (D.H.V.)	8%	8%	
DIRECTIONAL DISTRIBUTION	59%	59%	
% TRUCKS (A.D.T.)	17%	17%	
% TRUCKS (D.H.V.)	12%	12%	
FUNCTIONAL CLASSIFICATION	RURAL PRINCIPAL ARTERIAL-OTHER		
CONTROL OF ACCESS	NONE		
INTENSITY OF DEVELOPMENT	RURAL		
TERRAIN	MOUNTAINOUS		
DESIGN SPEED (M. P. H.)	40 MPH		
ANTICIPATED POSTED SPEED (M. P. H.)	40 MPH		
MDOT SHA CONTEXT ZONE	RURAL		



11000 Broken Land Parkway, Suite 450  
 Columbia, Maryland 21045  
 Phone: 410-984-3507  
 www.bruidis.com

**SITE PLAN, STORM WATER MANAGEMENT, GRADING, E&S CONTROL, AND PHOTOMETRIC SHEET NOS. AND OTHER CLARIFICATIONS**

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.

MD LICENSE NO. \_\_\_\_\_  
 EXPIRATION DATE: \_\_\_\_\_

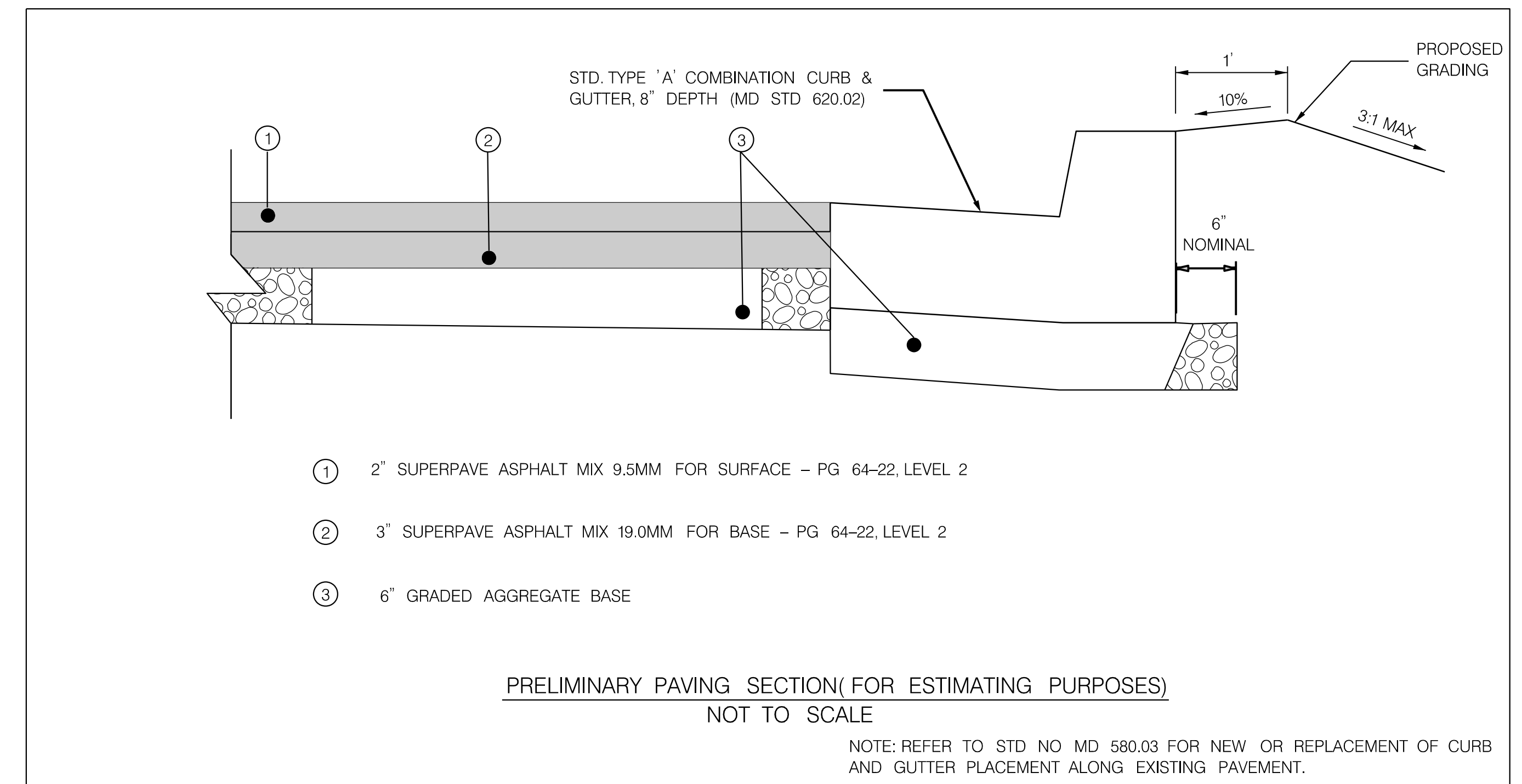
BY: redeat - DRILL HOLES

# ABBREVIATIONS

AASHTO..... American Association of State Highway Transportation Officials	HP..... High Point	R.Q.D..... Rock Quality Designation
ADT..... Average Daily Traffic	IN..... Inch	R.M..... Rootmat
AHD..... Ahead	INV..... Invert	S..... South
APPROX..... Approximate	J.B..... Junction Box	SAN..... Sanitary Sewer
B or B/L..... Baseline	K..... K Inlet	SB or S/B..... Southbound
BK..... Back / Book	L..... Length	S.D..... Storm Drain
BIT..... Bituminous	LF..... Linear Feet	S.D.D..... Surface Drain Ditch
B.C..... Bituminous Concrete	L.L..... Liquid Limit	S/E..... Super Elevation
B.M..... Bench Mark	LOD..... Limit of Disturbance	SF..... Silt Fence
BOT..... Bottom	LP..... Low Point	SF..... Square Feet
C.C..... Center of Curve	L.P..... Light Pole	SHT..... Sheet
CAP..... Corrugated Aluminum Pipe	LT..... Left	SPP..... Structural Steel Plate Pipe
CAPA..... Corrugated Aluminum Pipe Arch	MAC..... Macadam	SPPA..... Structural Steel Plate Pipe Arch
CATV..... Cable Television	M.C..... Moisture Content	S.P.T..... Standard Penetration Testing
C.B.R..... California Bearing Ratio	MAX..... Maximum	SRP..... Steel Spiral Rib Pipe -
C or C/L..... Centerline	M.D.D..... Maximum Dry Content	Aluminized Type 2
CL..... Class	MOD..... Modified	SRPA..... Steel Spiral Rib Pipe Arch -
CLF..... Chainlink Fence	MIN..... Minimum	Aluminized Type 2
CMP..... Corrugated Metal Pipe	N..... North	SSD..... Stopping Sight Distance
C.O..... Cleanout	NB..... Northbound	SSF..... Super Silt Fence
COMB..... Combination	NE..... Northeast	STD..... Standard
CONC..... Concrete	N.P..... Non-Plastic	STA..... Station
CONSTR..... Construction	O.C..... On Center	SO..... Single Opening
COR..... Corner	OHE..... Overhead Electric	SY..... Square Yards
CORR..... Correction	O.M..... Optimum Moisture	SWM..... Stormwater Management
CPP-S..... Corrugated Polyethylene Pipe - Type 'S'	PAV'T..... Pavement	T..... Tangent
CSP..... Corrugated Steel Pipe - Aluminized Type 2	PC..... Point of Curvature	T..... Telephone
CSPA..... Corrugated Steel Pipe Arch -	PCC..... Point of Compound Curvature	T.C..... Top of Cover
Aluminized Type 2	P/C..... Point of Crown	T.G..... Top of Grate
DC..... Degree of Curve	P/GE..... Profile Grade Elevation	T or TL..... Traverse Line
D.H.V..... Design Hourly Volume	P.G.E..... Profile Ground Elevation	T.M..... Top of Manhole
D.I..... Drop Inlet	P.G.L..... Profile Grade Line	TRAV..... Traverse
DIA..... Diameter	P/GL..... Profile Ground Line	TS..... Temporary Swale
D.O..... Double Opening	P/R..... Point of Rotation	T.S..... Top of Slab
E..... East	P.I..... Plasticity Index	T.S..... Topsoil
E..... Electric	PI..... Point of Intersection	TYP..... Typical
E..... External Distance	POC..... Point On Curve	U.D..... Under Drain
EA..... Each	POT..... Point On Tangent	U.G..... Underground
EB..... Eastbound	PPWP..... Polyvinyl Chloride Profile Wall Pipe	U.P..... Utility Pole
ELEV..... Elevation	PROP..... Proposed	US EPA..... United States Environmental
ES..... End Section	PRC..... Point of Reverse Curve	Protection Agency
ESC..... Erosion and Sediment Control	PT..... Point	USDA..... United States Department
EX or EXIST..... Existing	PT..... Point of Tangency	of Agriculture
FT..... Feet	PVC..... Point of Vertical Curve	VCL..... Vertical Clearance
F or FL..... Flowline	PVC..... Polyvinyl Chloride	V.C.L..... Vertical Curve Length
F.B.D..... Flat Bottom Ditch	PVI..... Point of Vertical Intersection	W..... Water
F.H..... Fire Hydrant	PVRC..... Point of Vertical Reverse Curve	W..... West
FWD..... Forward	PVT..... Point of Vertical Tangency	WB..... Westbound
G..... Gas	R..... Radius	WB..... Wetland Buffer
G.V..... Gas Valve	R.F..... Rock Fragments	W.M..... Water Meter
H.B..... Handbox	RT..... Right	W.S..... Wrapped Steel
HDWL..... Headwall	RW or R/W..... Right of Way	WUS..... Waters of the United States
HERCP..... Horizontal Elliptical Reinforced	RCP..... Reinforced Concrete Pipe	W.V..... Water Valve
Concrete Pipe	RCP..... Reinforced Concrete Pressure Pipe	

# GENERAL NOTES :

- 1.THE LOCATION OF THE UNDERGROUND AND SURFACE UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY.NO GUARANTEE IS MADE AS TO THE ACCURACY OF SAID LOCATIONS.CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO EXCAVATION FOR MARKING AND LOCATION OF UTILITIES.
- 2.THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.ANY CONFLICTS CONCERNING THE CONSTRUCTION AROUND EXISTING OBSTRUCTIONS PER THESE PLANS SHALL BE RESOLVED BETWEEN THE CONTRACTOR AND THE FIELD ENGINEER.
- 3.THE CONTRACTOR AND OTHERS SHALL PERFORM ALL WORK IN A MANNER THAT WILL ENSURE THE LEAST PRACTICAL OBSTRUCTION TO TRAFFIC,PEDESTRIANS,BUSINESSES,RESIDENTS, AND BE CONSISTENT WITH SAFETY.
- 4.ALL INVERT ELEVATIONS ARE APPROXIMATE AND MAY BE MODIFIED TO MEET CONDITIONS ENCOUNTERED DURING INSTALLATION OF DRAINAGE STRUCTURES, EXCEPT STORMWATER MANAGEMENT FACILITIES.
- 5.THE CONTRACTOR WILL VERIFY ALL PIPE LENGTHS ,SIZES,AND INVERTS IN THE FIELD BEFORE ORDERING ANY DRAINAGE STRUCTURES.
- 6.ALL BENCHMARKS AND COORDINATES SHOWN ON THE CONTRACT PLANS ARE "NAD83-91" AND "NAVD 88"
- 7.ALL EXISTING UTILITY FRAMES AND GRATES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE ADJUSTED TO FINISHED GRADE.
- 8.IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF ANY DEVIATION TO THIS PLAN AND/OR EXISTING FIELD CONDITIONS PRIOR TO ANY FIELD CHANGES BEING MADE.ANY CHANGE TO THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM DISTRICT 6 CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 9.THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THIS CONSTRUCTION ACTIVITIES WITH THE CONSTRUCTION ACTIVITIES OF ADJACENT PROJECTS,IF ANY.
- 10.THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY EXISTING LIGHT POLES,SIGNS,ETC.,DAMAGED OR REMOVED BY HIM DURING CONSTRUCTION.
- 11.UNLESS NOTED OTHERWISE OR DIRECTED OTHERWISE BY THE ENGINEER THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TREES,BUSHES,FENCES ,ETC.WITHIN THE GRADING LIMIT.
- 12.THE CONTRACTOR SHALL PROTECT ALL TREES AND BUSHES THAT ARE NOT BEING REMOVED OR RELOCATED.



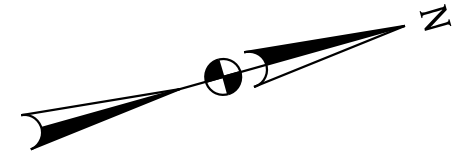
# CONVENTIONAL SIGNS

PROPOSED MEDIAN BARRIER .....		FIRE HYDRANT .....	
ELECTRICAL HAND BOX - SIGNALS .....		HISTORIC BOUNDARY .....	
FLOW LINE .....		WETLAND BOUNDARY .....	
STATE, COUNTY OR CITY LINES .....		PROPOSED PIPE / CULVERT .....	
PROPOSED TRAFFIC BARRIER .....		EXISTING PIPE / CULVERT .....	
EXISTING TRAFFIC BARRIER .....		EXISTING DROP INLET .....	
PROPOSED FENCE LINE .....		UTILITY POLE .....	
EXISTING FENCE LINE .....		WETLAND .....	
RIGHT OF WAY LINE .....		WETLAND BUFFER .....	
EXISTING ROADWAY .....		WATERS OF THE U.S. ....	
RAILROAD .....		HEDGE / TREE LINE .....	
BASE LINE OR SURVEY LINE .....		BUSH / TREE .....	
		CONIFEROUS TREE .....	
		GROUND ELEVATION .....	
		GRADE ELEVATION .....	

**MDOT** DISTRICT 6 - ENGINEERING SYSTEMS TEAM  
 MARYLAND DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION  
 US 219 AT US 40 ALT. PARK & RIDE

REVISIONS	GENERAL NOTES, ABBREVIATIONS & DETAILS
	SCALE NTS ADVERTISED DATE TBD CONTRACT NO. GA4335181
	DESIGNED BY WH COUNTY GARRETT
	DRAWN BY WH LOGMILE
	CHECKED BY RKL HORIZONTAL SCALE
	MDE/PRD VERTICAL SCALE
DRAWING NO. GN 01	OF 01 SHEET NO. 2 OF 10

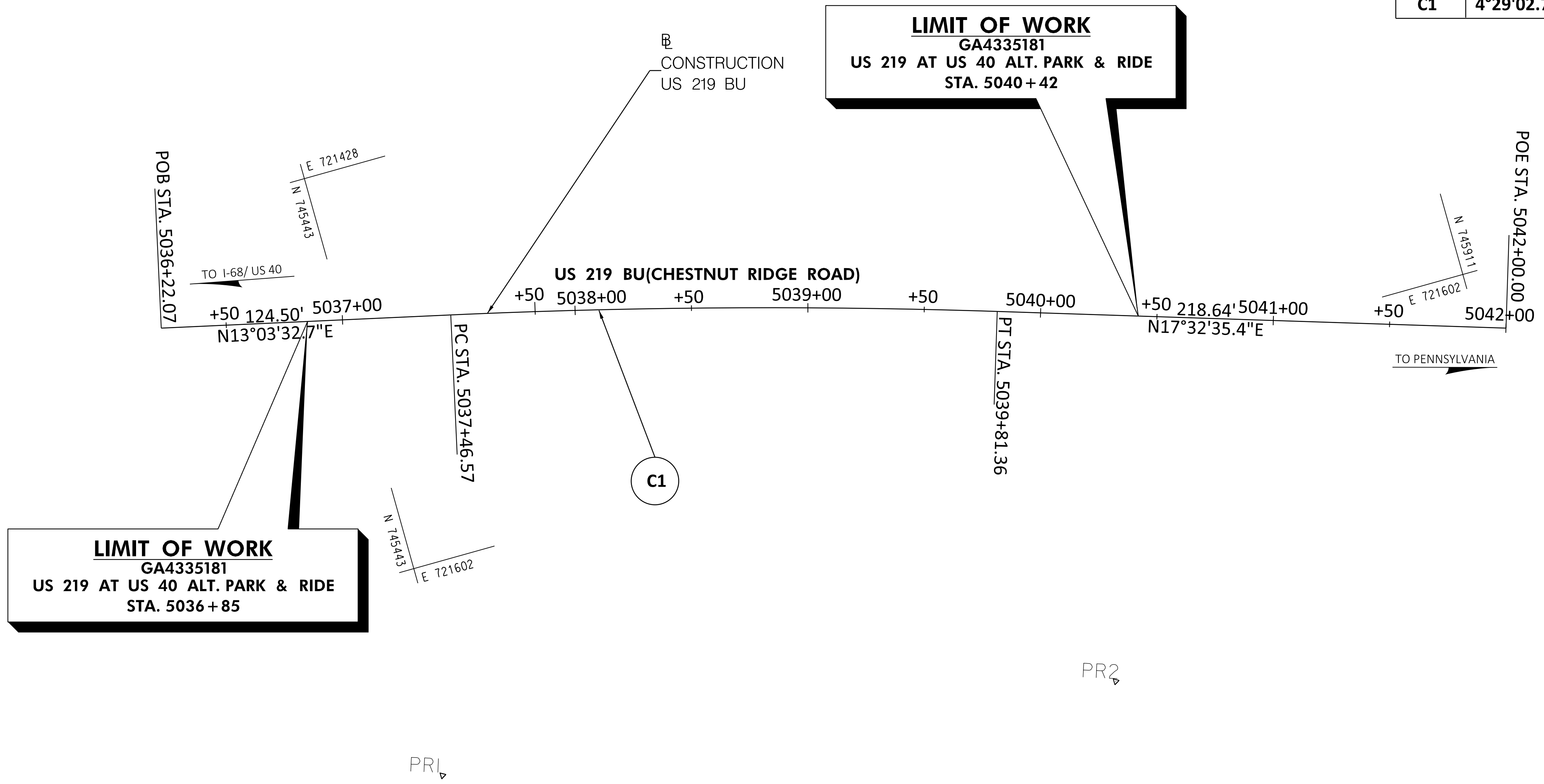
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 Consulting Engineers  
 11000 Broken Land Parkway, Suite 450  
 Columbia, Maryland 21044  
 Phone 410-994-3607  
 www.brudis.com



TRAVERSE CONTROL				
TRAV PT.	NORTHING	EASTING	ELEVATION	DESCRIPTION
PR1	745430.9270	721690.8800	2679.716	
PR2	7457220.2550	721730.0390	2668.426	
PR3	745882.1450	721914.6400	2657.674	

BASELINE CONTROL					
BASELINE	POINT NO.	STATION	NORTH	EAST	BEARING
US 219 BU	POB	5036+22.07	745366.4456	721473.2416	N 13°03'32.7" E
	PC	5037+46.57	745487.7271	721501.3734	
	PT	5039+81.36	745714.1335	721563.3159	N 17°32'35.4" E
	POE	5042+00.00	745922.6081	721629.2205	

CURVE DATA						
CURVE	DELTA	DC	RADIUS	TANGENT	LENGTH	EXTERNAL
C1	4°29'02.7544" Right	1.9099	3000.0000	117.4534	234.7868	2.2983



**LIMIT OF WORK**  
 GA4335181  
 US 219 AT US 40 ALT. PARK & RIDE  
 STA. 5036 + 85

**LIMIT OF WORK**  
 GA4335181  
 US 219 AT US 40 ALT. PARK & RIDE  
 STA. 5040 + 42



**MDOT** MARYLAND DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION

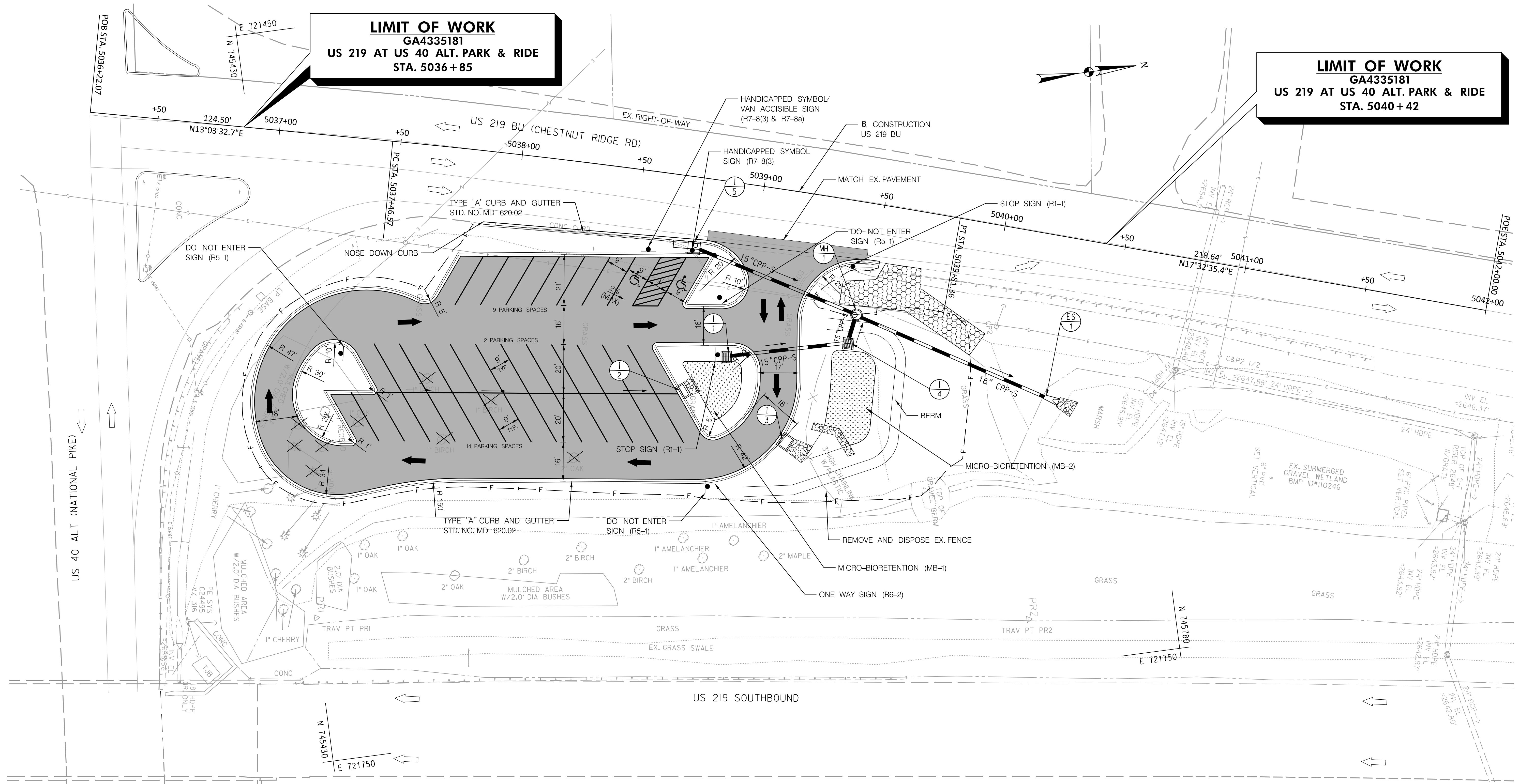
DISTRICT 6 – ENGINEERING SYSTEMS TEAM  
 US 219 AT US 40 ALT. PARK & RIDE

GEOMETRIC LAYOUT	
SCALE 1" = 30'	ADVERTISED DATE TBD CONTRACT NO. GA4335181
DESIGNED BY WH	COUNTY GARRETT
DRAWN BY FK	LOGMILE
CHECKED BY RKL	HORIZONTAL SCALE
MDE/PRD 17-PR-0075	VERTICAL SCALE
<b>DRAWING NO. GS - 01 OF 1</b>	<b>SHEET NO. 3 OF 10</b>

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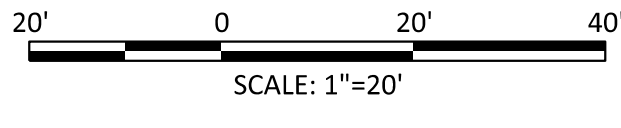
**LIMIT OF WORK**  
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**STA. 5036 + 85**

**LIMIT OF WORK**  
**GA4335181**  
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**STA. 5040 + 42**



PROPOSED PARKING SPACES  
 # OF REGULAR PARKING SPACES...33 EA  
 # OF ADA PARKING SPACES...2 EA  
 # OF TOTAL PARKING SPACES...35 EA

ROADWAY LEGEND	
	FULL DEPTH CONSTRUCTION
	SWM FACILITY (ESD)
	ACCESS ROAD WITH CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM
	CUT LIMITS
	FILL LIMITS
	EX. TREE TO BE REMOVED



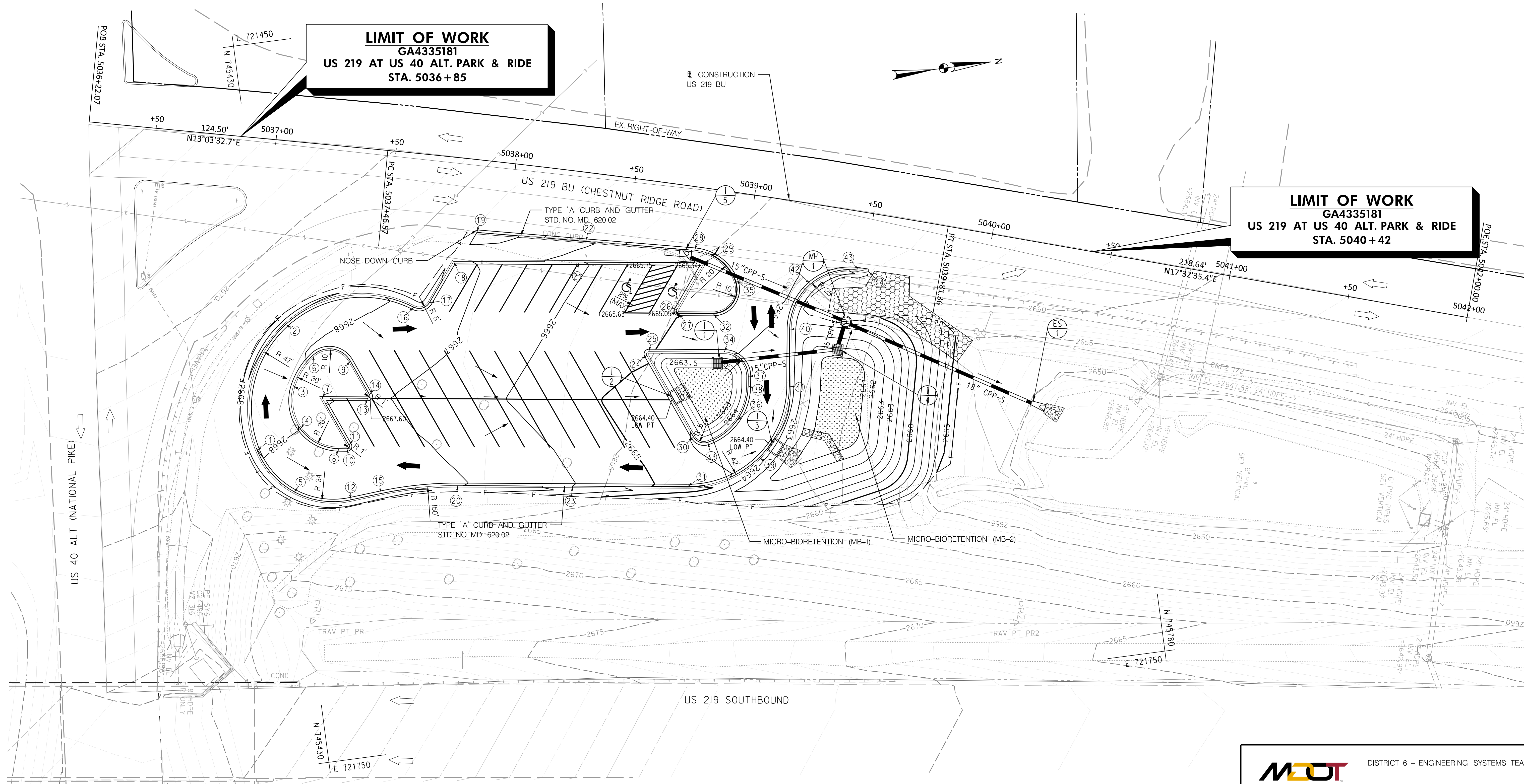
**MDOT** DISTRICT 6 - ENGINEERING SYSTEMS TEAM  
 MARYLAND DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION  
 US 219 AT US 40 ALT. PARK & RIDE

SITE PLAN			
SCALE 1" = 30'	ADVERTISED DATE TBD	CONTRACT NO. GA4335181	
DESIGNED BY WH	COUNTY GARRETT		
DRAWN BY FK	LOGMILE		
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MDE/PRD 17-PR-0075	VERTICAL SCALE		
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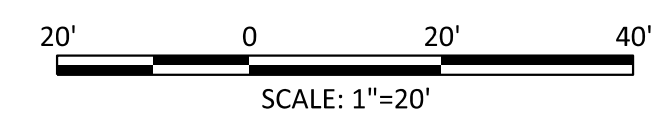
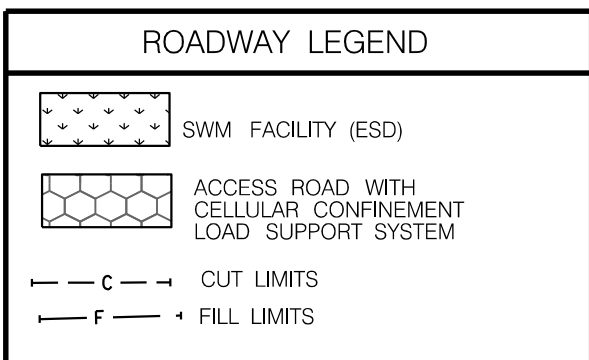
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**LIMIT OF WORK**  
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**US 219 AT US 40 ALT. PARK & RIDE**  
**STA. 5036 + 85**

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**STA. 5040 + 42**



CURB LAYOUT INFORMATION					
NO	STATION	OFFSET (FT)	NORTHING	EASTING	ELEVATION
<b>TO BE COMPLETED AT FINAL REVIEW</b>					



**MDOT** DISTRICT 6 - ENGINEERING SYSTEMS TEAM  
 MARYLAND DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION  
 US 219 AT US 40 ALT. PARK & RIDE

**GRADING AND CURB LAYOUT PLAN**

SCALE 1" = 30' ADVERTISED DATE TBD CONTRACT NO. GA4335181

DESIGNED BY WH COUNTY GARRETT  
 DRAWN BY WH LOGMILE  
 CHECKED BY RKL HORIZONTAL SCALE  
 MDE/PRD 17-PR-0075 VERTICAL SCALE

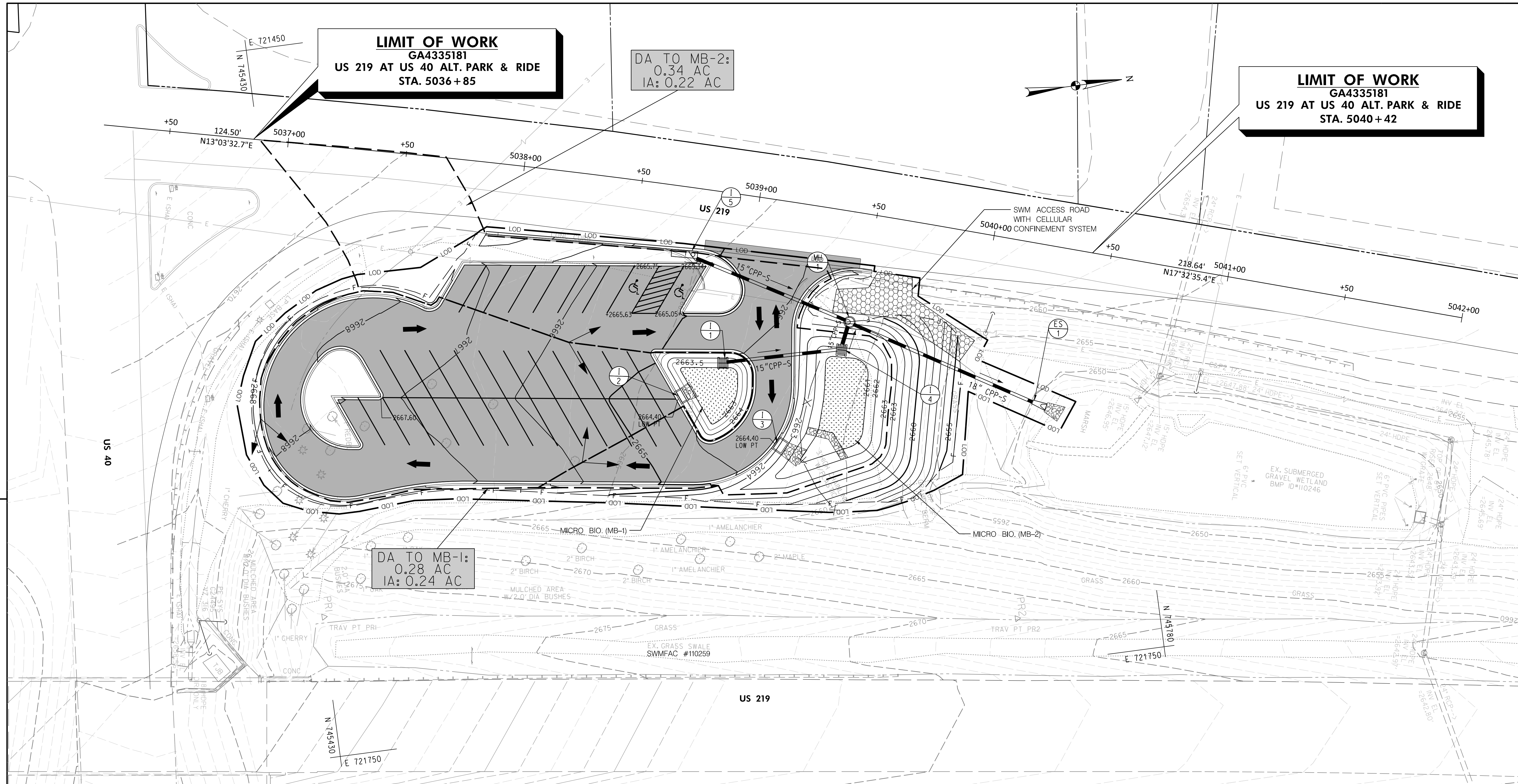
DRAWING NO. **GR- 01** OF **1** SHEET NO. **5** OF **10**

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**LIMIT OF WORK**  
**GA4335181**  
**US 219 AT US 40 ALT. PARK & RIDE**  
**STA. 5036+85**

DA TO MB-2:  
 0.34 AC  
 IA: 0.22 AC

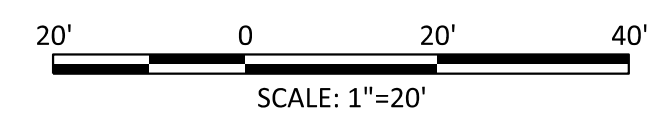
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**STA. 5040+42**



DA TO MB-1:  
 0.28 AC  
 IA: 0.24 AC

**LEGEND**

	DRAINAGE AREA TO SWM FACILITY
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING RIGHT OF WAY LINE
	EXISTING PROPERTY LINE
	MICROBIORETENTION FACILITY
	PROPOSED RIPRAP



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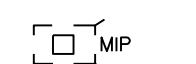
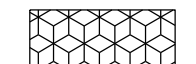

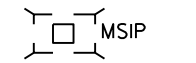

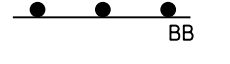

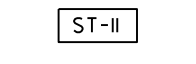
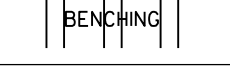
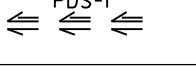
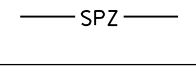
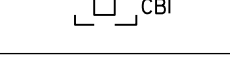

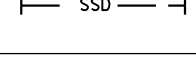
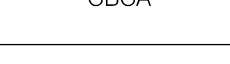


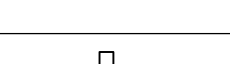
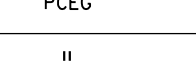
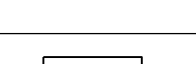
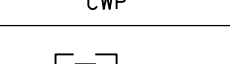
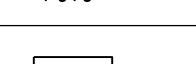

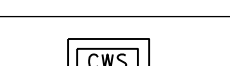
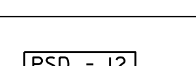
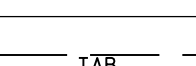
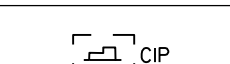
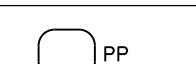
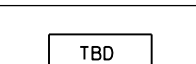
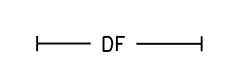


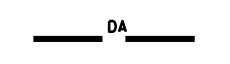
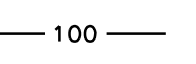

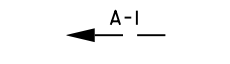


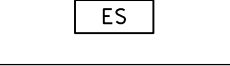


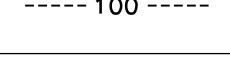
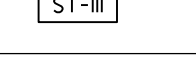

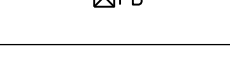
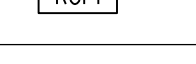
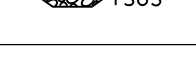
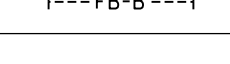
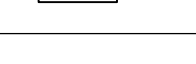

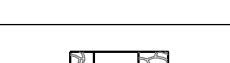
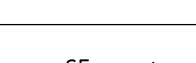
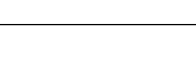
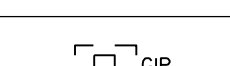
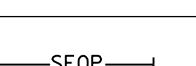
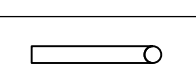
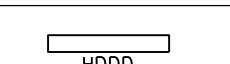
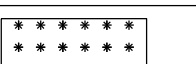

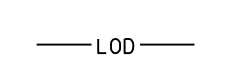


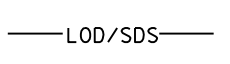

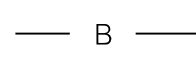


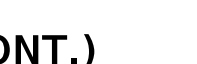
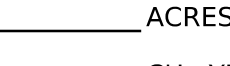
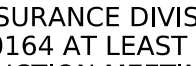

**STORMWATER MANAGEMENT PLAN**

SCALE: 1" = 20'	ADVERTISED DATE: TBD	CONTRACT NO.: GA4335181
DESIGNED BY: JS	COUNTY: GARRETT	
DRAWN BY: AM	LOGMILE: _____	
CHECKED BY: AG	HORIZONTAL SCALE: _____	
MDE/PRD: 17-PR-0075	VERTICAL SCALE: _____	
DRAWING NO. <b>SW-01</b>	OF <b>01</b>	SHEET NO. 6 OF 10

**BAI** BRUDIS & ASSOCIATES, INC.  
 Consulting Engineers  
 11000 Broken Land Parkway, Suite 450  
 Columbia, Maryland 21044  
 Phone: 410-494-3607  
 www.brudis.com

# EROSION AND SEDIMENT CONTROL (ESC) - GENERAL NOTES

## STANDARD SYMBOLS

100-YEAR FLOODPLAIN		MEDIAN INLET PROTECTION		STOCKPILE AREA	
AT-GRADE INLET PROTECTION		MEDIAN SUMP INLET PROTECTION		STONE CHECK DAM	
BAFFLE BOARDS		MOUNTABLE BERM		STONE/RIPRAP OUTLET SEDIMENT TRAP ST II	
BENCHING		PERIMETER DIKE/SWALE		STREAM PROTECTION ZONE	
CATCH BASIN INSERT		PERMANENT SOIL STABILIZATION MATTING-TYPE B		SUBSURFACE DRAINS	
CHESAPEAKE BAY CRITICAL AREA		PERMANENT SOIL STABILIZATION MATTING-TYPE C		SUMP PIT	
CLEAR WATER DIVERSION PIPE		PIPE CLEANING OUTFALL ON EXISTING GROUND		SUPER SILT FENCE	
CLEAR WATER PIPE		PIPE CLEANING OUTFALL TO CHANNEL		TEMPORARY ACCESS BRIDGE	
COMBINATION INLET PROTECTION		PIPE OUTLET SEDIMENT TRAP ST I		TEMPORARY ACCESS CULVERT	
CONCRETE WASHOUT STRUCTURE		PIPE SLOPE DRAIN		TEMPORARY ASPHALT BERM	
CURB INLET PROTECTION		PLUNGE POOL		TEMPORARY BARRIER DIVERSION	
DIVERSION FENCE		PORTABLE SEDIMENT TANK		TEMPORARY GABION OUTLET STRUCTURE	
DRAINAGE BOUNDARY		PROPOSED CONTOURS		TEMPORARY ORANGE CONSTRUCTION FENCE (TOCF)	
EARTH DIKE		REMOVABLE PUMPING STATION		TEMPORARY SOIL STABILIZATION MATTING-TYPE A	
EMERGENCY SPILLWAY		RIPRAP INFLOW PROTECTION		TEMPORARY SOIL STABILIZATION MATTING-TYPE E	
EXISTING CONTOURS		RIPRAP OUTLET SEDIMENT TRAP ST III		TEMPORARY SOIL STABILIZATION MATTING-TYPE D	
FILTER BAG		ROCK OUTLET PROTECTION I		TEMPORARY STONE OUTLET STRUCTURE	
FILTER BERM		ROCK OUTLET PROTECTION II		TEMPORARY SWALE	
FILTER LOG		ROCK OUTLET PROTECTION III		TREE PROTECTION FENCE	
GABION INFLOW PROTECTION		SILT FENCE		TREE ROOT PRUNING	
GABION INLET PROTECTION		SILT FENCE ON PAVEMENT		VERTICAL DRAW-DOWN DEVICE	
HORIZONTAL DRAW-DOWN DEVICE		SOD		WASH RACK OPTION	
LIMIT OF DISTURBANCE		STABILIZED CONSTRUCTION ENTRANCE (SCE)		WETLAND	
LIMIT OF DISTURBANCE / SAME DAY STABILIZATION		STANDARD INLET PROTECTION		WETLAND BUFFER	

### 3. CONFORMANCE REQUIREMENTS

REFER TO 308.01.03 AND THE FOLLOWING.

SWM AND ESC APPROVALS WILL BE KEPT UP TO DATE. ESC APPROVAL REMAINS VALID FOR 3 YEARS FROM THE DATE OF APPROVAL PER COMAR 26.17.01.08, AFTER WHICH APPROVALS MAY BE EXTENDED OR RENEWED BY THE ADMINISTRATION'S PLAN REVIEW DIVISION (PRD). CHANGES TO THE REGULATIONS, TERMS AND CONDITIONS OF APPROVALS AND PERMITS, AND THE ESC HANDBOOK WILL BE IMMEDIATELY INCORPORATED INTO THE CONTRACT BY DEFAULT. IF APPROVALS HAVE LAPSED, CEASE DEWATERING AND OTHER DISCHARGES FROM THE PROJECT AND PERMANENTLY STABILIZE DISTURBED AREAS. DO NOT RESUME GRADING OR OTHER EARTH DISTURBING ACTIVITIES UNTIL APPROVALS AND PERMITS HAVE BEEN EXTENDED OR RENEWED.

### 4. INSPECTIONS

- A. PERFORM DAILY INSPECTIONS AND INSPECT AS FOLLOWS.
  - I. AREAS THAT HAVE BEEN CLEARED, GRADED, OR EXCAVATED AND THAT HAVE NOT YET COMPLETED FINAL PERMANENT STABILIZATION.
  - II. INSTALLED ESC MEASURES AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MEASURES.
  - III. SEDIMENT THAT HAS BEEN TRACKED OUT FROM THE SITE ONTO PAVED ROADS, SIDEWALKS, OR OTHER PAVED AREAS.
  - IV. MATERIAL, WASTE, BORROW, AND EQUIPMENT STORAGE.
  - V. AREAS WHERE STORMWATER TYPICALLY FLOWS WITHIN THE PROJECT, INCLUDING DRAINAGEWAYS DESIGNED TO DIVERT, CONVEY, OR TREAT STORMWATER.
  - VI. DEWATERING OPERATIONS AND LOCATIONS OF DISCHARGE, INCLUDING ESC MEASURES THAT TREAT THE DEWATERING DISCHARGES AS WELL AS CHANNELIZED FLOWS OF WATER TO AND FROM THOSE MEASURES.
  - VII. ALL POINTS OF DISCHARGE FROM THE PROJECT.
  - VIII. ALL LOCATIONS WHERE STABILIZATION MEASURES HAVE BEEN IMPLEMENTED.
- B. PERFORM INSPECTIONS WITHIN 24 HOURS FOLLOWING STORM EVENTS OF 0.25 INCHES OR GREATER RAINFALL (EITHER THE SAME DAY THE RAINFALL EVENT CONCLUDES OR THE NEXT CALENDAR DAY) OF INSTALLED ESC MEASURES AND ENSURE THE MEASURES ARE ALWAYS IN PLACE AND FUNCTIONING AS SPECIFIED.
- C. MAINTAIN ESC MEASURES THROUGHOUT THE DURATION OF THE CONTRACT, REGARDLESS OF WHETHER CONSTRUCTION ACTIVITIES ARE ACTIVE OR INACTIVE. MAINTAIN ACCESS TO ALL ESC MEASURES UNTIL THEY ARE REMOVED.
- D. PERFORM ROUTINE MAINTENANCE, REPAIRS, REMOVAL AND RESETTling, AND REPLACEMENT AS NEEDED AND AS DIRECTED. TAKE CORRECTIVE ACTIONS FOLLOWING TRIGGERING EVENTS, SEVERE WEATHER EVENTS, AND AS DIRECTED. ENSURE EFFECTIVE OPERATING CONDITION OF ESC MEASURES AT ALL TIMES.
- E. MAINTAIN A DAILY LOG OF ESC INSPECTIONS THAT INCLUDES ROUTINE MAINTENANCE AS WELL AS CORRECTIVE ACTIONS NECESSITATED BY TRIGGERING EVENTS. NOTE THE RAINFALL AMOUNT WHEN INSPECTIONS ARE PERFORMED FOLLOWING STORM EVENTS OF 0.25 INCHES OR GREATER RAINFALL.
- F. ENSURE PROHIBITED DISCHARGES ARE NOT RELEASED AND PREVENTATIVE MEASURES ARE IN PLACE TO PREVENT PROHIBITED DISCHARGES FROM OCCURRING.
- G. WHEN THE LOD IS GREATER THAN OR EQUAL TO 1 ACRE, ENSURE DEWATERING ACTIVITIES AND TURBIDITY MONITORING IS PERFORMED, RECORDED, DOCUMENTED, AND ENSURE DOCUMENTATION INCLUDES CORRECTIVE ACTIONS RESULTING FROM TRIGGERING EVENTS AND THE DATE THE CORRECTIVE ACTIONS ARE MADE.
- H. WHEN DISCHARGING TO TIER II WATERS, PERFORM INSPECTIONS OF INSTALLED ESC MEASURES WITHIN 24 HOURS FOLLOWING STORM EVENTS OF 0.25 INCHES OR GREATER RAINFALL AND WHEN RUNOFF FROM SNOWMELT IS SUFFICIENT TO CAUSE A DISCHARGE. ENSURE ESC MEASURES THEY ARE ALWAYS IN PLACE AND FUNCTIONING AS SPECIFIED.
- I. WHEN DEWATERING TURBIDITY BENCHMARKS APPLY, INSPECT DISCHARGE POINTS AT LEAST ONCE PER DAY ON EACH DAY DISCHARGE OCCURS.
- J. IDENTIFY INCIDENTS OF NONCOMPLIANCE OBSERVED AND MAINTENANCE OR CORRECTIVE ACTIONS TAKEN.
- K. IDENTIFY IF THE SITE WAS SUBJECT TO FLOODING.

### 5. DAILY REPORTS

COMPLETE A DAILY INSPECTION REPORT THAT INCLUDES THE FOLLOWING.

- A. THE DATE AND TIME OF THE INSPECTION.
- B. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE INSPECTION.
- C. WEATHER INFORMATION (CONDITIONS DURING THE INSPECTION AS WELL AS TIME AND AMOUNT OF LAST RECORDED PRECIPITATION).
- D. A SUMMARY OF THE INSPECTION FINDINGS, INCLUDING MAINTENANCE OR CORRECTIVE ACTIONS, AN ASSESSMENT OF THE CONDITION OF ESC MEASURES, AND HOW DEFICIENCIES WERE OR ARE BEING ADDRESSED.
- E. A DESCRIPTION OF THE PROJECT'S PRESENT PHASE OF CONSTRUCTION.
- F. WHEN APPLICABLE, THE RAIN GAUGE OR WEATHER STATION READINGS THAT TRIGGERED THE INSPECTION.

### 6. ADDITIONAL RECORD KEEPING

THROUGHOUT THE DURATION OF THE CONTRACT, MAINTAIN THE FOLLOWING RECORDS AND ENSURE THEY ARE AVAILABLE FOR REVIEW AND INSPECTION BY THE ADMINISTRATION, MDE, AND/OR THE US EPA, EITHER PHYSICALLY ON-SITE OR ELECTRONICALLY ACCESSIBLE, OR AT A READILY PHYSICALLY LOCATION WITHIN A REASONABLE DISTANCE FROM THE CONSTRUCTION ACTIVITIES.

- A. THE SWM/ESC APPROVAL, MODIFICATION APPROVALS, RENEWALS, AND EXTENSIONS.
- B. THE APPROVED ESC PLANS, INCLUDING APPROVED ADDENDA, REDLINES, AND ESC FIELD MODIFICATIONS.
- C. THE DAILY REPORTS.
- D. WHEN THE PROJECT LOD IS GREATER THAN OR EQUAL TO 1 ACRE, MAINTAIN THE FOLLOWING ADDITIONAL RECORDS.
  - I. THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) NOTICE OF INTENT (NOI) PERMIT AND THE NOI APPLICATION, AS ASSOCIATIVE DOCUMENTS.
  - II. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). MDE MAY REQUIRE PUBLIC ACCESS TO PORTIONS OF THE SWPPP UPON REQUEST. IF AN ON-SITE LOCATION IS UNAVAILABLE WHEN NO PERSONNEL ARE PRESENT, POST THE NOTICE OF THE SWPPP LOCATION NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE.
  - III. THE APPROVED ESC PLANS.
  - IV. THE APPROVED SWM PLANS.
  - V. A COPY OF GENERAL PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY, GENERAL NPDES PERMIT NUMBER MDCR0000, STATE DISCHARGE PERMIT NUMBER 20CP0000.
  - VI. WHEN LOCATED WITHIN A TIER II WATERSHED, A COPY OF THE ANTIDegradation CHECKLIST.
  - VII. ALL INSPECTION REPORTS AND ENFORCEMENT ACTIONS ISSUED FROM THE ADMINISTRATION, MDE, AND THE US EPA.

### 1. PROJECT INFORMATION


- A. TOTAL AREA DISTURBED ACRES 0.72 ACRES
- B. TOTAL CUT CU. YDS. 857 CU. YDS. (NOT FOR BIDDING PURPOSES)
- C. TOTAL FILL 417 CU. YDS. (NOT FOR BIDDING PURPOSES)
- D. OFFSITE WASTE/BORROW AREA LOCATION N/A (IF KNOWN)
- E. STREAM USE CLASS I
- F. STREAM TIER (I, II, III) I
- G. STREAM IMPAIRMENTS pH, NITROGEN, PHOSPHORUS, AND CHLORIDE

### 2. NOTIFICATIONS

- A. NOTIFY THE ADMINISTRATION'S QUALITY ASSURANCE DIVISION (QAD) IN WRITING OR BY TELEPHONE AT 410-365-0164 AT LEAST 7 WORKING DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
  - B. NOTIFY QAD AT LEAST 7 WORKING DAYS PRIOR TO THE INITIAL ESC FIELD MEETING.
- WHEN THE LOD IS GREATER THAN OR EQUAL TO 1 ACRE, NOTIFY THE PERTINENT REGIONAL OFFICE OF THE MARYLAND DEPARTMENT OF THE ENVIRONMENT'S (MDE'S) COMPLIANCE PROGRAM BY TELEPHONE 14 CALENDAR DAYS PRIOR TO THE INITIAL ESC FIELD MEETING.

### 2. NOTIFICATIONS (CONT.)

- I. CENTRAL DIVISION (ANNE ARUNDEL, BALTIMORE, CALVERT, CHARLES, HARFORD, AND ST. MARY'S COUNTIES); 410-537-3510.
  - II. WESTERN DIVISION (ALLEGANY, GARRETT, AND WASHINGTON COUNTIES); 301-689-1480.
  - III. WESTERN DIVISION SATELLITE OFFICE (CARROL, FREDERICK, HOWARD, MONTGOMERY, AND PRINCE GEORGE'S COUNTIES); 301-665-2850
  - IV. EASTERN DIVISION (CAROLINE, CECIL, DORCHESTER, KENT, QUEEN ANNE'S, SOMERSET, TALBOT, WICOMICO, AND WORCESTER COUNTIES); 410-901-4020.
- C. NOTIFY QAD UPON INSTALLATION OF INITIAL ESC MEASURES.
  - D. NOTIFY QAD PRIOR TO INSTALLATION OF SEDIMENT TRAPS OR SEDIMENT BASINS.
  - E. NOTIFY QAD PRIOR TO REMOVING ESC MEASURES.
  - F. NOTIFY QAD AT FINAL ACCEPTANCE BY THE ADMINISTRATION.



DISTRICT 6 - ENGINEERING SYSTEMS TEAM

US 219 AT US 40 ALT. PARK & RIDE

STATE HIGHWAY ADMINISTRATION



**BRUDIS & ASSOCIATES, INC.**  
Consulting Engineers  
11000 Broken Land Parkway, Suite 450  
Columbia, Maryland 21044  
Phone 410-694-3607  
www.brudis.com

**P.E. 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. \_\_\_\_\_

EXPIRATION DATE: \_\_\_\_\_

**DESIGN CERTIFICATION**

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I & II INCLUDING SUPPLEMENTS, THE ENVIRONMENTAL ARTICLE SECTIONS 4-101 THROUGH 116 AND SECTIONS 4-201 AND 215, AND THE CODE OF MARYLAND REGULATIONS (COMAR) 26.17.01 AND COMAR 26.17.02 FOR EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT, RESPECTIVELY.

DATE \_\_\_\_\_ DESIGNER'S SIGNATURE \_\_\_\_\_

MD REGISTRATION NO. \_\_\_\_\_ PRINTED NAME \_\_\_\_\_

P.E., R.L.S., R.L.A., OR R.A. (CIRCLE ONE)

STORMWATER & SEDIMENT CONTROL FINAL APPROVAL

APPROVED  
**PLAN REVIEW DIVISION CHIEF**

DATE \_\_\_\_\_

PRD NO: 17-PR-0075

APPROVED MODIFICATIONS


REVISIONS


**EROSION AND SEDIMENT CONTROL GENERAL NOTES**

SCALE NTS ADVERTISED DATE \_\_\_\_\_ CONTRACT NO. GA4335181

DESIGNED BY \_\_\_\_\_ COUNTY GARRETT

DRAWN BY \_\_\_\_\_ LOGMILE \_\_\_\_\_

CHECKED BY \_\_\_\_\_ HORIZONTAL SCALE \_\_\_\_\_

MDE/PRD 17-PR-0075 VERTICAL SCALE \_\_\_\_\_

DRAWING NO. **ES-N1** OF **3** SHEET NO. 7 OF 10

BY: Whassan

# EROSION AND SEDIMENT CONTROL - GENERAL NOTES

## 7. CONDITIONS/TRIGGERING EVENTS

THE FOLLOWING CONDITIONS REQUIRE IMMEDIATE CORRECTIVE ACTIONS WHEN FOUND. NOTIFY THE REC AND THE ENGINEER PRIOR TO TAKING ACTION.

- A. SIGNIFICANTLY DAMAGED OR FULL REPLACEMENT OF ESC MEASURES WITH NEW ESC MEASURES. (THIS DOES NOT INCLUDE STANDARD REPAIR, MAINTENANCE, AND UPKEEP.)
- B. MISSING ESC MEASURES, OR ESC MEASURES NOT INSTALLED AS SPECIFIED OR AS DIRECTED.
- C. DISCHARGES CAUSE AN EXCEEDANCE OF APPLICABLE WATER QUALITY STANDARDS.
- D. A PROHIBITED DISCHARGE HAS OCCURRED.
- E. DEWATERING DISCHARGES EXCEED THE 150 NTU BENCHMARK FOR THE DAILY MAXIMUM OF THE TURBIDITY MONITORING RESULTS.
- F. INDICATIONS OF SIGNIFICANT AMOUNTS OF SEDIMENT DISCHARGE, INCLUDING BUT NOT LIMITED TO EARTH SLIDES OR MUD FLOWS; CONCENTRATED FLOWS OF STORMWATER SUCH AS RILLS, RIVULETS, OR CHANNELS THAT CAUSE EROSION WHEN SUCH FLOWS ARE NOT FILTERED, SETTLED, OR OTHERWISE TREATED TO REMOVE SEDIMENT; TURBID FLOWS OF STORMWATER THAT ARE NOT FILTERED, SETTLED, OR OTHERWISE TREATED TO REDUCE TURBIDITY; DEPOSITS OF SEDIMENT AT THE PROJECT IN AREAS THAT DRAIN TO UNPROTECTED STORMWATER INLETS OR CATCH BASINS THAT DISCHARGE DIRECTLY TO SURFACE WATERS; DEPOSITS OF SEDIMENT FROM THE PROJECT ON PUBLIC OR PRIVATE STREETS OUTSIDE OF THE PERMITTED CONSTRUCTION ACTIVITY; DEPOSITS OF SEDIMENT FROM THE PROJECT ON ADJACENT PROPERTY OUTSIDE OF THE LOD; OR DISCHARGES FROM THE PROJECT TO MUNICIPAL CONVEYANCES, CURBS AND GUTTERS, OR STREAMS RUNNING THROUGH OR ALONG THE PROJECT WHERE VISUAL OBSERVATIONS INDICATE THE DISCHARGES DIFFER FROM AMBIENT CONDITIONS IN TERMS OF TURBIDITY.

## 8. CORRECTIVE ACTIONS

WHEN ONE OR MORE CONDITIONS/TRIGGERING EVENTS ARE OBSERVED, OR IF THE REC AND/OR MDE HAS VERIFIED ONE OR MORE REPORTED CONDITIONS/TRIGGERING EVENTS, PERFORM THE FOLLOWING ACTIONS AS DIRECTED AND INCLUDE THEM IN THE DAILY REPORTS.

- A. WITHIN ONE (1) CALENDAR DAY INSPECT ESC MEASURES AND VERIFY EFFICIENT FUNCTION. CORRECT DEFICIENCIES IMMEDIATELY. DEFICIENCIES INCLUDE BUT ARE NOT LIMITED TO FAILING TO ADHERE TO THE LATEST APPROVED ESC SEQUENCE OF CONSTRUCTION; FAILURE TO MAINTAIN BUFFERS; GRADING BEYOND THE LOD; MISSING ESC MEASURES; AND ESC MEASURES IMPROPERLY INSTALLED OR ARE IN NEED OF MAINTENANCE.
- B. TAKE ACTION TO PREVENT FURTHER CONDITIONS/TRIGGERING EVENTS. COORDINATE EFFORTS WITH THE REC AND THE ENGINEER.
- C. WITHIN THREE (3) CALENDAR DAYS OF A SECOND TRIGGERING EVENT AND WHEN THE LOD IS GREATER THAN OR EQUAL TO 1 ACRE, NOTIFY THE PERTINENT REGIONAL OFFICE OF THE MDE COMPLIANCE PROGRAM AND THE ADMINISTRATION'S QAD. INFORM THEM OF THE DATE OF THE EVENT AND THE CONDITION OF THE ESC MEASURES.

## 9. SENSITIVE AREAS

WITH THE APPROVAL AND ASSISTANCE OF THE ENGINEER, COORDINATE WITH THE APPROPRIATE ADMINISTRATION REPRESENTATIVES AND WITH THE APPROPRIATE REGULATORY AGENCIES TO ENSURE THAT ALL PERMIT CONDITIONS ARE MET PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES WITHIN SPECIFIED SENSITIVE AREAS. SENSITIVE AREAS INCLUDE BUT ARE NOT LIMITED TO FLOODPLAINS; WETLANDS; WETLAND BUFFERS; CHESAPEAKE BAY CRITICAL AREA; FORESTS; TREE CONSERVATION AND PROTECTION AREAS; ARCHEOLOGICAL SITES; HISTORIC SITES; PARKLAND; RARE, THREATENED, OR ENDANGERED SPECIES AND CRITICAL HABITATS; OPEN WATERS; TIER II WATERSHEDS; IMPAIRED WATERS; STREAM PROTECTION ZONES; AND STORMWATER MANAGEMENT (SWM) FACILITIES.

ENSURE THE ESCM MONITORS ALL WORK IN SENSITIVE AREAS AND ENSURE THAT REASONABLE CARE IS TAKEN DURING WORK IN AND ADJACENT TO SENSITIVE AREAS.

DO NOT PLACE STOCKPILES OR OTHERWISE STORE MATERIALS OR EQUIPMENT WITHIN LOCATIONS OF SENSITIVE AREAS.

## 10. TIER II WATERSHEDS

FOR DISCHARGES WITHIN A DRAINAGE AREA TO, OR DIRECTLY INTO, A TRIBUTARY THAT IS DESIGNATED AS TIER II, PERFORM THE FOLLOWING.

- A. MAXIMIZE ACCELERATED STABILIZATION TECHNIQUES.
- B. DO NOT LOCATE STOCKPILES, DEBRIS, EQUIPMENT, OR OTHERWISE STORE MATERIALS WITHIN THE STREAM PROTECTION ZONE (SPZ).

## 11. IMPAIRED WATERS

IMPAIRED WATERS ARE THOSE IDENTIFIED FOR ONE OR MORE SPECIFIC IMPAIRMENTS AS LISTED IN SECTION 303(D) OF THE CLEAN WATER ACT (CWA).

DISCHARGES TO IMPAIRED WATERS MAY NOT EXCEED AVAILABLE WASTELOAD ALLOCATION FOR APPLICABLE TOTAL MAXIMUM DAILY LOADS (TMDLS).

FOR DISCHARGES TO WATERS THAT ARE IMPAIRED FOR POLYCHLORINATED BIPHENYLS (PCBS) AND INCLUDE DEMOLITION OF ANY STRUCTURE WITH 10,000 SQUARE FEET OF FLOOR SPACE BUILT OR RENOVATED BEFORE JANUARY 1, 1980, IMPLEMENT CONTROLS TO MINIMIZE THE EXPOSURE TO STORMWATER OF PCB-CONTAINING BUILDING MATERIALS, INCLUDING BUT NOT LIMITED TO PAINT, CAULK, AND PRE-1980 FLUORESCENT LIGHTING FIXTURES. ENSURE DISPOSAL OF SUCH MATERIALS IS PERFORMED IN COMPLIANCE WITH APPLICABLE STATE, FEDERAL, AND LOCAL LAWS.

## 12. WATER QUALITY STANDARDS

MDE MAY DETERMINE THAT DISCHARGES MAY CAUSE, HAVE REASONABLE POTENTIAL TO CAUSE, OR CONTRIBUTE TO AN EXCURSION ABOVE ANY APPLICABLE WATER QUALITY STANDARD, OR ARE CAUSING OR CONTRIBUTING TO AN IMPAIRMENT OF A WATERBODY. IF SUCH A DETERMINATION IS MADE, MDE MAY REQUIRE CHANGES TO ESC MEASURES TO ADEQUATELY ADDRESS, ACHIEVE, AND DOCUMENT THE IDENTIFIED WATER QUALITY CONCERNS.

CONTROL DISCHARGES AS NECESSARY AND AS DIRECTED TO MEET APPLICABLE WATER QUALITY STANDARDS. PREVENT THE RELEASE OF FLOATING DEBRIS, OIL, GREASE, SCUM, SLUDGE, AND OTHER FLOATING MATERIALS THAT WOULD CAUSE THE RECEIVING WATER(S) TO BE UNSIGHTLY; CHANGE EXISTING COLOR TO PRODUCE OBJECTIONABLE COLOR FOR AESTHETIC PURPOSES OR INTERFERE DIRECTLY OR INDIRECTLY WITH DESIGNATED USES; OR ELEVATE TEMPERATURE WHICH INTERFERE DIRECTLY OR INDIRECTLY WITH DESIGNATED USES.

RECORD VERIFIABLE DATA AND INFORMATION THAT ARE REPRESENTATIVE OF AMBIENT CONDITIONS AND DEMONSTRATE THAT THE RECEIVING WATER IS ATTAINING WATER QUALITY STANDARDS IN THE DAILY REPORTS.

## 13. APPROVALS AND PERMIT COVERAGE

WHEN INADEQUATE SPACE OR LOCATIONS ARE PROVIDED FOR CONSTRUCTION SUPPORT ACTIVITIES WITHIN THE APPROVED LOD, LOCATE THESE ACTIVITIES AT NEARBY OFFSITE LOCATIONS AFTER HAVING OBTAINED ALL NECESSARY PERMITS FROM THE LOCAL JURISDICTION AND PROPERTY OWNER PERMISSION. PROVIDE COPIES OF THE APPROVALS, PERMITS AND PERMISSIONS TO THE REC AND THE ENGINEER.

WHEN THE LOD GREATER THAN OR EQUAL TO 1 ACRE AND THE APPROVED LOD SPECIFIES LOCATIONS FOR USE FOR THE PROJECT MAY INCLUDE ON-SITE CONSTRUCTION SUPPORT ACTIVITIES, SUCH AS ON-SITE CONCRETE OR ASPHALT BATCH PLANTS, HEAVY USE AREAS INCLUDING BUT NOT LIMITED TO EQUIPMENT STAGING AND STORAGE, AND MATERIAL STORAGE AREAS, STOCKPILE LOCATIONS, ON-SITE EXCAVATED MATERIAL TEMPORARY STORAGE UNTIL DISPOSED, AND ON-SITE BORROW PITS. DO NOT ALLOW THESE AREAS TO BE USED BY OTHERS NOT DIRECTLY ASSOCIATED WITH THE CONTRACT AND PERMANENTLY STABILIZE THESE AREAS WHEN THEY ARE NO LONGER NEEDED AND PRIOR TO CONTRACT CLOSEOUT.

## 14. PROHIBITED DISCHARGES

PREVENT RELEASE OF PROHIBITED DISCHARGES INCLUDING BUT NOT LIMITED TO THE FOLLOWING.

- A. WASTEWATER FROM CONCRETE WASHOUTS.
- B. WASTEWATER FROM WASHOUTS AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS.
- C. FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE.
- D. SOAPS, SOLVENTS, OR DETERGENTS USED IN EXTERNAL BUILDING WASHDOWN.
- E. TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE.
- F. WATER CONTAMINATED BY TOXIC OR HAZARDOUS SUBSTANCES (E.G. FROM SITES MANAGED UNDER MARYLAND'S VOLUNTARY CLEANUP PROGRAM (VCP) OR LAND RESTORATION PROGRAM (LRP) OR DEMOLITION DEBRIS CONTAMINATED BY PCBS, NOT ADDRESSED BY A SWPPP).

## 15. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

WHEN THE PROJECT LOD IS GREATER THAN OR EQUAL TO 1 ACRE, IMPLEMENT THE APPLICABLE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) TO PREVENT THE DISCHARGE OF POLLUTANTS FROM SPILLED OR LEAKED MATERIALS. WITHIN SEVEN (7) CALENDAR DAYS OF KNOWLEDGE OF THE RELEASE, PROVIDE A DESCRIPTION OF THE RELEASE, THE CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF THE RELEASE MDE. ADDITIONAL ACTION MAY BE REQUIRED.

- A. PERFORM EQUIPMENT AND VEHICLE FUELING AND MAINTENANCE IN ACCORDANCE WITH THE FOLLOWING.
  - I. ELIMINATE THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUELS AND OILS. DO NOT PERFORM ACTIVITIES INVOLVING CHEMICALS NEAR WATERS OF THE STATE, STORMWATER INLETS OR CONVEYANCES AND PROVIDE CONTAINMENT THROUGH THE USE OF SPILL KITS, BERMS, AND OTHER SUITABLE TECHNIQUES.
  - II. ENSURE ADEQUATE SUPPLIES ARE AVAILABLE AT ALL TIMES TO HANDLE SPILLS, LEAKS, AND DISPOSAL OF USED LIQUIDS.
  - III. USE DRIP PANS AND ABSORBENTS UNDER OR AROUND LEAKY VEHICLES.
  - IV. DISPOSE OF OR RECYCLE OIL AND OILY WASTES IN ACCORDANCE WITH OTHER FEDERAL, STATE, TRIBAL, OR LOCAL REQUIREMENTS.
  - V. CLEAN UP SPILLS AND CONTAMINATED SURFACES IMMEDIATELY BY USING DRY CLEAN UP MEASURES. DO NOT CLEAN CONTAMINATED SURFACES BY HOSING THE AREA DOWN.
  - VI. ELIMINATE THE SOURCE OF THE SPILL TO PREVENT A DISCHARGE OR A CONTINUATION OF AN ONGOING DISCHARGE.
- B. DO NOT WASH EQUIPMENT AND VEHICLES ON-SITE.
- C. STORE, HANDLE, AND DISPOSE OF BUILDING PRODUCTS, MATERIALS, AND WASTES IN ACCORDANCE WITH THE FOLLOWING.
  - I. FOR BUILDING MATERIALS AND BUILDING PRODUCTS INCLUDING BUT NOT LIMITED TO ASPHALT SEALANTS, COPPER FLASHING, ROOFING MATERIALS, ADHESIVES, CONCRETE ADMIXTURES, GRAVEL, AND MULCH, PROVIDE EITHER PLASTIC SHEETING COVERS TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER OR USE SIMILARLY EFFECTIVE MEANS THAT MINIMIZE THE DISCHARGE OF POLLUTANTS FROM AREAS IN WHICH THESE ITEMS ARE STORED.
  - II. MINIMIZATION OF EXPOSURE IS NOT REQUIRED WHERE THE EXPOSURE TO PRECIPITATION AND STORMWATER WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS OR WHERE EXPOSURE OF A SPECIFIC ITEM POSSES LITTLE RISK OF STORMWATER CONTAMINATION.

D. FOR PESTICIDES, HERBICIDES, INSECTICIDES, REFER TO SECTION 701 AND THE PERTINENT VEGETATIVE ESTABLISHMENT SPECIFICATIONS REGARDING SUBMITTAL OF NECESSARY INTEGRATED PEST MANAGEMENT FORMS AND PERTINENT LANDSCAPE REPORTING FORMS.

- E. FOR DIESEL FUEL, OIL, HYDRAULIC FLUIDS, OTHER PETROLEUM PRODUCTS, AND OTHER CHEMICALS, STORE CHEMICALS IN WATER-TIGHT CONTAINERS, AND PROVIDE COVER TO MINIMIZE EXPOSURE OF CONTAINERS TO PRECIPITATION AND TO STORMWATER OR USE A SIMILARLY EFFECTIVE MEANS THAT MINIMIZE THE DISCHARGE OF POLLUTANTS FROM AREAS IN WHICH THESE ITEMS ARE STORED, INCLUDING BUT NOT LIMITED TO THE USE OF SPILL KITS OR PROVIDE SECONDARY CONTAINMENT.
 

CLEAN UP SPILLS IMMEDIATELY, USING DRY CLEAN-UP METHODS WHERE POSSIBLE, AND DISPOSE OF USED MATERIALS AT A LOCATION THAT ACCEPTS THE TYPE OF WASTE TO BE DISPOSED. DO NOT HOSE DOWN THE AREA TO CLEAN SURFACES OR SPILLS AND ELIMINATE THE SOURCE OF THE SPILL TO PREVENT A DISCHARGE OR A FURTHERANCE OF AN ONGOING DISCHARGE.

## 15. STORMWATER POLLUTION PREVENTION PLAN (SWPPP) CONT.

F. FOR HAZARDOUS OR TOXIC WASTES, INCLUDING BUT NOT LIMITED TO PAINTS, CAULKS, SEALANTS, FLUORESCENT LIGHT BALLASTS, SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS, SEPARATE HAZARDOUS OR TOXIC WASTE FROM CONSTRUCTION AND DOMESTIC WASTE AND STORE WASTE IN SEALED CONTAINERS MADE OF SUITABLE MATERIALS TO PREVENT LEAKAGE AND CORROSION, AND WHICH ARE LABELED IN ACCORDANCE WITH APPLICABLE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REQUIREMENTS, AND ALL OTHER APPLICABLE FEDERAL, STATE, TRIBAL, OR LOCAL REQUIREMENTS.

STORE ALL OUTSIDE CONTAINERS WITHIN APPROPRIATELY SIZED SECONDARY CONTAINMENT TO PREVENT SPILLS FROM BEING DISCHARGED OR PROVIDE A SIMILARLY EFFECTIVE MEANS THAT PREVENT THE DISCHARGE POLLUTANTS FROM AREAS IN WHICH THESE ITEMS ARE STORED, INCLUDING BUT NOT LIMITED TO THE USE OF SPILL KITS.

DISPOSE OF HAZARDOUS OR TOXIC WASTE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED METHOD OF DISPOSAL AND IN COMPLIANCE WITH FEDERAL, STATE, TRIBAL, AND LOCAL REQUIREMENTS.

CLEAN UP SPILLS IMMEDIATELY, USING DRY CLEAN-UP METHODS, AND DISPOSE OF USED MATERIALS PROPERLY. DO NOT HOSE DOWN THE AREA TO CLEAN SURFACES OR SPILLS.

FOLLOW ALL OTHER FEDERAL, STATE, TRIBAL, AND LOCAL REQUIREMENTS REGARDING HAZARDOUS OR TOXIC WASTE.

ELIMINATE THE SOURCE OF THE SPILL TO PREVENT A DISCHARGE OR A FURTHERANCE OF AN ONGOING DISCHARGE.

G. FOR CONSTRUCTION WASTES INCLUDING BUT NOT LIMITED PACKAGING MATERIALS, SCRAP CONSTRUCTION MATERIALS, MASONRY PRODUCTS, TIMBER, PIPE, PLASTICS, STYROFOAM, CONCRETE, DEMOLITION DEBRIS AND OTHER TRASH OR BUILDING MATERIALS, PROVIDE WASTE CONTAINERS OF SUFFICIENT SIZE AND NUMBER TO CONTAIN WASTES. FOR WASTE CONTAINERS THAT HAVE LIDS, KEEP WASTE CONTAINER LIDS CLOSED WHEN NOT IN USE AND CLOSE LIDS AT THE END OF EACH WORKDAY AND DURING STORM EVENTS. FOR WASTE CONTAINERS THAT DO NOT HAVE LIDS, PROVIDE EITHER COVER TO MINIMIZE EXPOSURE OF WASTES TO PRECIPITATION OR USE A SIMILARLY EFFECTIVE MEANS THAT MINIMIZES THE DISCHARGE OF POLLUTANTS. REFER TO TC-6.10.

- I. FOR SANITARY WASTE, POSITION PORTABLE TOILETS SO THAT THEY ARE SECURE AND WILL NOT BE TIPPED OR KNOCKED OVER AND ARE LOCATED AWAY FROM WATERS OF THE STATE AND STORMWATER INLETS AND CONVEYANCES. REFER TO 103.03.05.
- II. FOR WASHING APPLICATORS AND CONTAINERS USED FOR STUCCO, PAINT, CONCRETE, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER MATERIALS, DIRECT WASH WATER INTO A LEAK-PROOF CONTAINER OR LEAK-PROOF AND LINED PIT SUCH THAT OVERFLOWS DO NOT OCCUR DUE TO INADEQUATE SIZING OR PRECIPITATION.
- III. FOR WASHOUT OR CLEANOUT WASTES, DO NOT DUMP LIQUID WASTES IN STORM SEWERS OR WATERS OF THE STATE. REMOVE AND DISPOSE OF HARDENED CONCRETE WASTE CONSISTENT WITH THE HANDLING OF OTHER CONSTRUCTION WASTES.
- IV. LOCATE WASHOUT AND CLEANOUT ACTIVITIES AS FAR AWAY AS POSSIBLE FROM WATERS OF THE STATE AND STORMWATER INLETS OR CONVEYANCES, AND TO THE EXTENT FEASIBLE, DESIGNATE AREAS TO BE USED FOR THESE ACTIVITIES AND CONDUCT SUCH ACTIVITIES ONLY IN THESE AREAS.

## 15. STORMWATER POLLUTION PREVENTION PLAN (SWPPP) CONT.

H. FOR THE APPLICATION OF FERTILIZERS, PERFORM THE FOLLOWING.

- I. REFER TO 920.03, 701.03, AND AS SPECIFIED REGARDING DEVELOPMENT OF ANY NECESSARY INTEGRATED PEST MANAGEMENT FORM AND SUBMITTAL OF ANY NECESSARY LANDSCAPE REPORTING FORM.
- II. APPLY FERTILIZER IN CONFORMANCE WITH MARYLAND LAW, SECTION 701, THE NMP DEVELOPED FOR THE BIORETENTION SOIL MIX (BSM) OR TOPSOIL SOURCE OF SUPPLY, AND THE PERTINENT VEGETATION ESTABLISHMENT AS SPECIFIED.
- III. DO NOT APPLY FERTILIZER BEFORE HEAVY RAINS OR WHEN GROUND IS FROZEN, OR WITHIN 10 FEET LATERAL DISTANCE FROM WATERS OF THE STATE, OR WITHIN ANY STORMWATER CONVEYANCE CHANNEL.
- IV. FOLLOW ALL OTHER FEDERAL, STATE, TRIBAL, AND LOCAL REQUIREMENTS REGARDING FERTILIZER APPLICATION, INCLUDING AGRICULTURE ARTICLE SECTION 8-803.4.
- V. DO NOT APPLY TO STORMWATER CONVEYANCE CHANNELS.
- VI. FOLLOW ALL OTHER FEDERAL, STATE, TRIBAL, AND LOCAL REQUIREMENTS REGARDING FERTILIZER APPLICATION, INCLUDING AGRICULTURE ARTICLE SECTION 8-803.4.
- I. IN THE EVENT OF A DISCHARGE RESULTING FROM A SPILL OF HAZARDOUS SUBSTANCES OR OIL FROM A CONSTRUCTION SITE WHERE THE RELEASE IS AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER 40 CFR PART 110, 40 CFR PART 117, OR 40 CFR PART 302, OCCURRING DURING A 24 HOUR PERIOD, NOTIFY THE NATIONAL RESPONSE CENTER (NRC) IN ACCORDANCE WITH THE REQUIREMENTS OF 40 CFR PART 110, 40 CFR PART 117, AND 40 CFR PART 302; 1-800-424-8802 OR 202-267-2675 (IN THE WASHINGTON, DC METROPOLITAN AREA) AND NOTIFY MDE BETWEEN 8 AM AND 5 PM AT 410-537-3510 OR ALL OTHER HOURS AT 866-633-4686.

## 16. CLEARING AND GRUBBING

UNLESS OTHERWISE SPECIFIED, THE CLEARING AND GRUBBING UNIT SIZE IS AS SPECIFIED IN 101.01.01 (E). DO NOT EXCEED A SINGLE 20-ACRE GRADING UNIT. ONCE THIS FIRST UNIT IS HALF GRADED AND PERMANENT STABILIZATION IS ESTABLISHED AND APPROVED, WORK MAY PROCEED TO A SECOND 20-ACRE GRADING UNIT. NO MORE THAN 30 ACRES MAY BE DISTURBED AT ANY TIME.


## 17. STOCKPILES

LOCATE STOCKPILES OUTSIDE OF SENSITIVE AREAS AND AWAY FROM STORMWATER CONVEYANCES, STORM DRAIN INLETS, AND AREAS WHERE STORMWATER FLOW IS CONCENTRATED.

FOR STOCKPILES THAT WILL BE UNUSED FOR MORE THAN SEVEN (7), OR THREE (3) DAYS FOR SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1)), APPLY APPROPRIATE TEMPORARY STABILIZATION AS SPECIFIED.


STORMWATER & SEDIMENT CONTROL FINAL APPROVAL	APPROVED MODIFICATIONS	REVISIONS	EROSION AND SEDIMENT CONTROL GENERAL NOTES	
APPROVED PLAN REVIEW DIVISION CHIEF			SCALE _____ NTS _____ ADVERTISED DATE _____ CONTRACT NO. _____ GA4335181 _____	
DATE _____			DESIGNED BY _____ COUNTY _____ GARRETT _____	
PRD NO: _____-PR-_____			DRAWN BY _____ LOGMILE _____	
			CHECKED BY _____ HORIZONTAL SCALE _____	
			MDE/PRD _____ 17-PR-0075 _____ VERTICAL SCALE _____	
			DRAWING NO. <b>ES-N2</b> OF <b>3</b> SHEET NO. 8 OF 10	

HIGHWAY HYDRAULICS DIVISION



US 219 AT US 40 ALT. PARK & RIDE

**STATE HIGHWAY ADMINISTRATION**



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Columbia, Maryland 21044  
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# EROSION AND SEDIMENT CONTROL - GENERAL NOTES

## 18. INGRESS / EGRESS CONTROLS

PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS AND MINIMIZE TRACKING OF SEDIMENT.

- A. RESTRICT CONSTRUCTION EQUIPMENT TO DESIGNATED ENTRANCE AND EXIT POINTS.
- B. USE APPROPRIATE STABILIZATION TECHNIQUES.
- C. IMPLEMENT ADDITIONAL TRACK-OUT CONTROLS AS NECESSARY TO ENSURE THAT SEDIMENT REMOVAL OCCURS PRIOR TO CONSTRUCTION EQUIPMENT EXIT.

WHEN NO SCE PROVIDED, KEEP EACH PIECE OF CONSTRUCTION EQUIPMENT WITHIN THE LOD UNTIL THE WORK IS COMPLETE AND CLEAN TREADS/TIRES PRIOR TO LEAVING THE LOD.

WHERE SEDIMENT HAS BEEN TRACKED-OUT ONTO PAVED ROADS, SIDEWALKS, OR OTHER PAVED AREAS OUTSIDE OF THE LOD, REMOVE THE DEPOSITED SEDIMENT BY THE END OF THE WORKDAY IN WHICH THE TRACK-OUT OCCURS. REMOVE THE TRACK-OUT BY SWEEPING, SHOVELING, OR VACUUMING THESE SURFACES, OR BY USING OTHER SIMILARLY EFFECTIVE MEANS OF SEDIMENT REMOVAL. DO NOT FLUSH THE ROADWAY OR SWEEP TRACKED-OUT SEDIMENT INTO STORMWATER CONVEYANCES, STORM DRAIN INLETS, OR WATERS OF THE STATE.

## 19. DUST CONTROL

MINIMIZE DUST. ON AREAS OF EXPOSED SOIL, MINIMIZE THE GENERATION OF DUST THROUGH THE APPROPRIATE APPLICATION OF WATER OR OTHER DUST SUPPRESSION TECHNIQUES.

## 20. STANDARD STABILIZATION NOTE

STABILIZE EXPOSED AREAS. IMPLEMENT AND MAINTAIN STABILIZATION MEASURES THAT MINIMIZE EROSION FROM EXPOSED AREAS.

AFTER INITIAL SOIL DISTURBANCE OR REDISTURBANCE, APPLY PERMANENT OR TEMPORARY STABILIZATION AS FOLLOWS.

- A. WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1).
- B. WITHIN SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING.

ADEQUATE VEGETATIVE STABILIZATION REQUIRES 95% GROUND COVER.

SAME DAY STABILIZATION ONLY APPLIES TO AREAS THAT HAVE BEEN STABILIZED BY NON-ERODIBLE MATERIAL INCLUDING BUT NOT LIMITED TO AGGREGATE, GRAVEL, POURED CONCRETE, AND ASPHALT PATCHING.

## 21. INCREMENTAL STABILIZATION

REFER TO THE MDE ESC HANDBOOK FOR THE INCREMENTAL STABILIZATION OF CUT AND FILLS.

## 22. EROSION AND SEDIMENT CONTROL EXCAVATION

DISPOSE OF MATERIAL REMOVED FROM ESC MEASURES AT AN APPROVED WASTE SITE AS SPECIFIED IN SECTION 201. MATERIALS MAY BE STORED FOR RE-USE WHEN APPROVED. MATERIALS STORED FOR RE-USE MAY BE REUSED ONCE DRIED AND ONLY WHEN IT MEETS THE REQUIREMENTS FOR EMBANKMENTS OR OTHER SUITABLE USES AND IS APPROVED.

## 23. SEDIMENT TRAPS AND BASINS

- A. SITUATE TRAPS AND BASINS OUTSIDE OF WATERS OF THE STATE AND NATURAL BUFFER AREAS.
- B. PREVENT TRAPS AND BASINS FROM COLLECTING WATER FROM WETLANDS.
- C. REMOVE ACCUMULATED SEDIMENT TO MAINTAIN CAPACITY AND PERFORM ROUTINE MAINTENANCE TO ENSURE THE TRAPS AND BASINS REMAIN IN EFFECTIVE OPERATING CONDITION.

## 24. STREAM RESTRICTION PERIODS

ALL IN-STREAM WORK IS PROHIBITED DURING STREAM CLOSURE PERIODS, WHICH PROTECT FISH AND OTHER WILDLIFE DEPENDENT ON THE STREAM FOR SPAWNING OR MIGRATION.

DO NOT WORK WITHIN STREAMS DURING THE FOLLOWING CLOSURE DATES, INCLUSIVE, FOR ANY GIVEN YEAR.

- A. USE I AND I-P: MARCH 1 TO JUNE 15.
- B. USE II AND II-P: JUNE 1 TO SEPTEMBER 30 AND DECEMBER 16 TO MARCH 14.
- C. USE III AND III-P: OCTOBER 1 TO APRIL 30.
- D. USE IV AND IV-P: MARCH 1 TO MAY 31.

## 25. DEWATERING PRACTICES

REFER TO 308.03.31.

## 26. TURBIDITY MONITORING BENCHMARK TO PROTECT WATER QUALITY (FOR PROJECTS WITH AN LOD GREATER THAN OR EQUAL TO 1 ACRE)

WHEN DISCHARGES FROM DEWATERING ENTER A TIER II STREAM OR WATERS LISTED AS IMPAIRED FOR SEDIMENT OR A SEDIMENT-RELATED PARAMETER, COMPLY WITH THE BENCHMARK MONITORING REQUIREMENTS AS SPECIFIED AND DOCUMENT IN THE DAILY REPORTS AND REPORTING FORMS THE PROCEDURES USED IN THE SWPPP.

THE BENCHMARK THRESHOLD IS NOT AN EFFLUENT LIMITATION; IT IS AN INDICATOR THAT THE DEWATERING CONTROLS MAY NOT BE WORKING TO PROTECT WATER QUALITY. INVESTIGATE AND TAKE CORRECTIVE ACTIONS AS APPROPRIATE THROUGH COORDINATION WITH THE REC AND THE ENGINEER.

### A. TURBIDITY MONITORING REQUIREMENTS

- I. SAMPLING FREQUENCY. COLLECT AT LEAST ONE TURBIDITY SAMPLE FROM THE DEWATERING DISCHARGE EACH DAY THE DISCHARGE OCCURS.
- II. SAMPLING LOCATION. TAKE SAMPLES AT ALL POINTS WHERE DEWATERING WATER IS DISCHARGED. TAKE SAMPLES AFTER THE DEWATERING WATER HAS BEEN PASSED THROUGH ESC MEASURES AND PRIOR TO ITS DISCHARGE INTO A RECEIVING WATER, CONSTRUCTED OR NATURAL SITE DRAINAGE FEATURE, OR STORM DRAIN INLET.
- III. REPRESENTATIVE SAMPLES. ENSURE SAMPLES TAKEN ARE REPRESENTATIVE OF THE DEWATERING DISCHARGE FOR ANY GIVEN DAY. FOLLOW THE US EPA "INSPECTION AND MONITORING GUIDE FOR CONSTRUCTION DEWATERING"(EPA 833-B-22-001).
- IV. TEST METHODS. MEASURE SAMPLES USING A TURBIDITY METER THAT REPORTS RESULTS IN NEPHELOMETRIC TURBIDITY UNITS (NTUS) AND CONFORMS WITH AN APPROVED METHOD CONTAINED IN PART 136 OF THE FEDERAL REGULATIONS (E.G., METHODS 180.1 AND 2130). USE THE METER, AND CONDUCT A CALIBRATION VERIFICATION PRIOR TO EACH USE, CONSISTENT WITH THE MANUFACTURER'S INSTRUCTIONS.

### B. THE DAILY THRESHOLD FOR TURBIDITY IS 150 NTU.

### C. COMPARE THE DAILY MAXIMUM OF THE TURBIDITY MONITORING RESULTS 150 NTU.

- I. IF THE DAILY MAXIMUM OF THE TURBIDITY MONITORING RESULTS EXCEEDS 150 NTU, CONDUCT FOLLOW-UP CORRECTIVE ACTION AND DOCUMENT CORRECTIVE ACTION TAKEN. COORDINATE EFFORTS WITH THE REC AND THE ENGINEER.
- II. COLLECT AND ANALYZE ADDITIONAL SAMPLES PER DAY AS DIRECTED BY THE REC OR THE ENGINEER AND INCLUDE IN THE DAILY REPORTS.
- III. DISCHARGE LOCATIONS ARE INDEPENDENT OF EACH OTHER AND SUBJECT TO THE SAME MONITORING, REPORTING, AND BENCHMARK THRESHOLD REQUIREMENTS.

## 26. TURBIDITY MONITORING BENCHMARK TO PROTECT WATER QUALITY (FOR PROJECTS WITH AN LOD GREATER THAN OR EQUAL TO 1 ACRE) (CONT.)

### D. REPORTING AND RECORDKEEPING.

- I. MAINTAIN A REPORT OF DAILY TURBIDITY MEASUREMENTS, CALIBRATION, TEST RESULTS, AND CORRECTIVE ACTIONS TAKEN.
- II. SUMMARIZE THE DATA USING THE SPECIFIED FORM AND SUBMIT TO THE ENGINEER AND REC EACH DAY. THE ENGINEER WILL SUBMIT REPORTS TO MDE USING THE EPERMITS SYSTEM (GOV.MARYLAND.GOV/MDE/NPDES/ACCOUNT/LOGIN) NO LATER THAN 28 DAYS FOLLOWING THE END OF EACH MONITORING QUARTER SPECIFIED. IF THERE ARE MONITORING DAYS IN WHICH THERE WAS NO DEWATERING DISCHARGE, OR IF THERE IS A MONITORING QUARTER WITH NO DEWATERING DISCHARGE, INDICATE THIS IN THE TURBIDITY MONITORING REPORT. KEEP COPIES OF COMPLETED REPORTS ONSITE FOR THE DURATION OF THE CONTRACT. RETAIN ALL SUCH INFORMATION FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THE CONTRACT IS CLOSED OUT.

MONITORING QUARTERS AND DEADLINES FOR REPORTING TURBIDITY BENCHMARK MONITORING DATA TABLE		
MONITORING QUARTER	PERIOD	REPORTING DEADLINE
1	JANUARY 1 TO MARCH 31	APRIL 28
2	APRIL 1 TO JUNE 30	JULY 28
3	JULY 1 TO SEPTEMBER 30	OCTOBER 28
4	OCTOBER 1 TO DECEMBER 31	JANUARY 28

### E. ALSO INCLUDE THE FOLLOWING FOR DEWATERING INSPECTIONS AND REPORTING.

- I. APPROXIMATE TIMES THAT THE DEWATERING DISCHARGE BEGAN AND ENDED EACH DAY.
- II. IF THE DEWATERING DISCHARGE IS A CONTINUOUS DISCHARGE THAT CONTINUES AFTER NORMAL BUSINESS HOURS, INDICATE THAT THE DISCHARGE IS CONTINUOUS.
- III. AVERAGE GALLONS PER DAY DISCHARGE RATE BASED ON PUMP CAPACITY AND THROTTLE SETTING.
- IV. INDICATION OF WHETHER OR NOT POLLUTANT DISCHARGES WERE OBSERVED AT THE POINT OF DISCHARGE TO RECEIVING WATERS FLOWING THROUGH OR IMMEDIATELY ADJACENT TO THE PROJECT, TO CONSTRUCTED OR NATURAL SITE DRAINAGE FEATURES, OR STORM DRAIN INLETS, INCLUDING BUT NOT LIMITED TO SEDIMENT PLUMES, SUSPENDED SOLIDS, UNUSUAL COLOR, PRESENCE OF ODOR, DECREASED CLARITY, PRESENCE OF FOAM, VISIBLE SHEEN ON THE WATER SURFACE OR VISIBLE OILY DEPOSITS ON THE BOTTOM OR ALONG THE STREAM BANK OF THE RECEIVING WATER.
- V. THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS.
- VI. THE NAME OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING OR MEASUREMENTS.
- VII. THE DATE(S) ANALYSES WERE PERFORMED.
- VIII. THE NAME OF INDIVIDUAL(S) WHO PERFORMED THE ANALYSES.
- IX. THE ANALYTICAL TECHNIQUES OR METHODS USED.
- X. THE RESULTS OF ANALYSES.
- XI. ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION.

## 27. UTILITY TIE-IN WORK

WHEN UTILITY TIE-IN WORK IS NECESSARY BEYOND THE APPROVED LOD AND ESC MEASURES, AND THE ASSOCIATED CUMULATIVE LOD INCREASE FOR ALL UTILITY TIE-IN WORK IS LESS THAN 400 SF, PERFORM THE FOLLOWING.

- A. CALL "MISS UTILITY" AT 1-800-257-7777 OR 811 AT LEAST 48 HOURS PRIOR TO THE START OF WORK.
- B. PLACE EXCAVATED MATERIAL ON THE HIGH SIDE OF TRENCHES.
- C. BACKFILL, COMPACT, AND PERMANENTLY STABILIZE ALL TRENCHES BY THE END OF EACH WORKDAY FOR UTILITY TIE-IN WORK.

WHEN THE ASSOCIATED CUMULATIVE LOD INCREASE FOR ALL UTILITY TIE-IN WORK FOR THE PROJECT EXCEEDS 400 SF, DO NOT PROCEED. ALERT THE REC AND THE ENGINEER.


## 28. FIELD MODIFICATIONS

REFER TO 308.01.06 AND 308.03.05.

## 29. SHUTDOWNS / LIQUIDATED DAMAGES

WHEN A PROJECT IS FOUND TO BE IN NON-COMPLIANCE OR IS ADVERSELY IMPACTING SENSITIVE AREAS, WATERS OF THE STATE, OR OTHER PROTECTED RESOURCES, THE ADMINISTRATION WILL IMPOSE PARTIAL OR TOTAL SHUTDOWNS AND MAY ADDITIONALLY IMPOSE ESC LIQUIDATED DAMAGES UNTIL COMPLIANCE IS RESTORED. OTHER PENALTIES MAY ALSO BE INCURRED. MDE RESERVES THE RIGHT TO PERFORM UNANNOUNCED INSPECTIONS AND IMPOSE ADDITIONAL REQUIREMENTS, RESTRICTIONS, OR PENALTIES.

**DATUM: NAD 83/91 Horizontal  
NAVD 88 Vertical**



**MARYLAND DEPARTMENT OF TRANSPORTATION**  
STATE HIGHWAY ADMINISTRATION

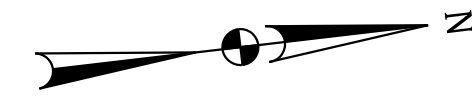
HIGHWAY HYDRAULICS DIVISION  
DISTRICT 6 – ENGINEERING SYSTEMS TEAM  
US 219 AT US 40 ALT. PARK & RIDE

STORMWATER & SEDIMENT CONTROL FINAL APPROVAL	APPROVED MODIFICATIONS	REVISIONS	<b>EROSION AND SEDIMENT CONTROL GENERAL NOTES</b>
<p>APPROVED <b>PLAN REVIEW DIVISION CHIEF</b></p> <p>DATE _____</p> <p>PRD NO: <u>    </u>-PR-<u>    </u></p>		<p><b>TENTATIVE</b> <u>MONTH DD, 20YY</u></p> <p>THIS DOCUMENT/PLAN IS DRAFT AND SUBJECT TO CHANGE. IT IS AN INTERAGENCY/INTRA-AGENCY DELIBERATIVE COMMUNICATION THAT IS NOT FOR PUBLIC DISCLOSURE UNDER MD. GENERAL PROVISIONS CODE ANN. § 4-344 (MARYLAND PUBLIC INFORMATION ACT).</p>	<p>SCALE <u>    </u> NTS <u>    </u> ADVERTISED DATE <u>    </u> CONTRACT NO. <u>    </u> GA4335181</p> <p>DESIGNED BY <u>    </u> COUNTY <u>    </u> GARRETT</p> <p>DRAWN BY <u>    </u> LOGMILE <u>    </u></p> <p>CHECKED BY <u>    </u> HORIZONTAL SCALE <u>    </u></p> <p>MDE/PRD <u>    </u> 17-PR-0075 <u>    </u> VERTICAL SCALE <u>    </u></p> <p>DRAWING NO. <b>ES-N3</b> OF <b>3</b> SHEET NO. 9 OF 10</p>

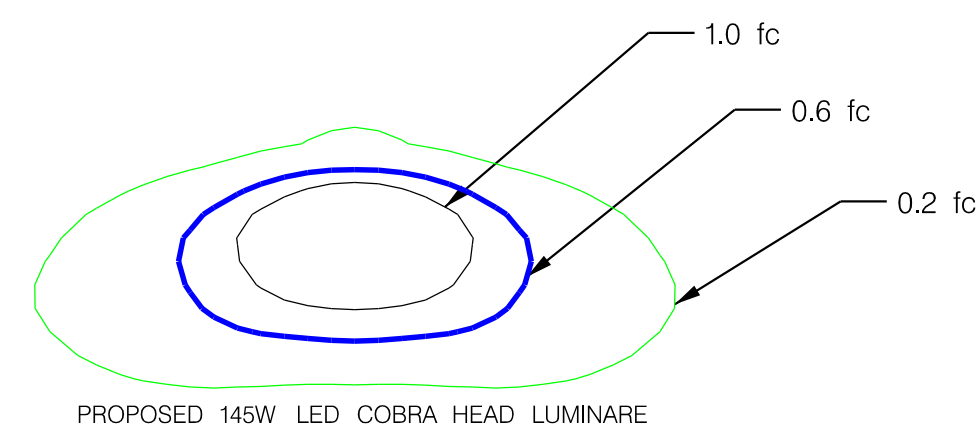
BAI

**BRUDIS & ASSOCIATES, INC.**  
Consulting Engineers

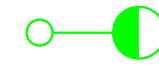

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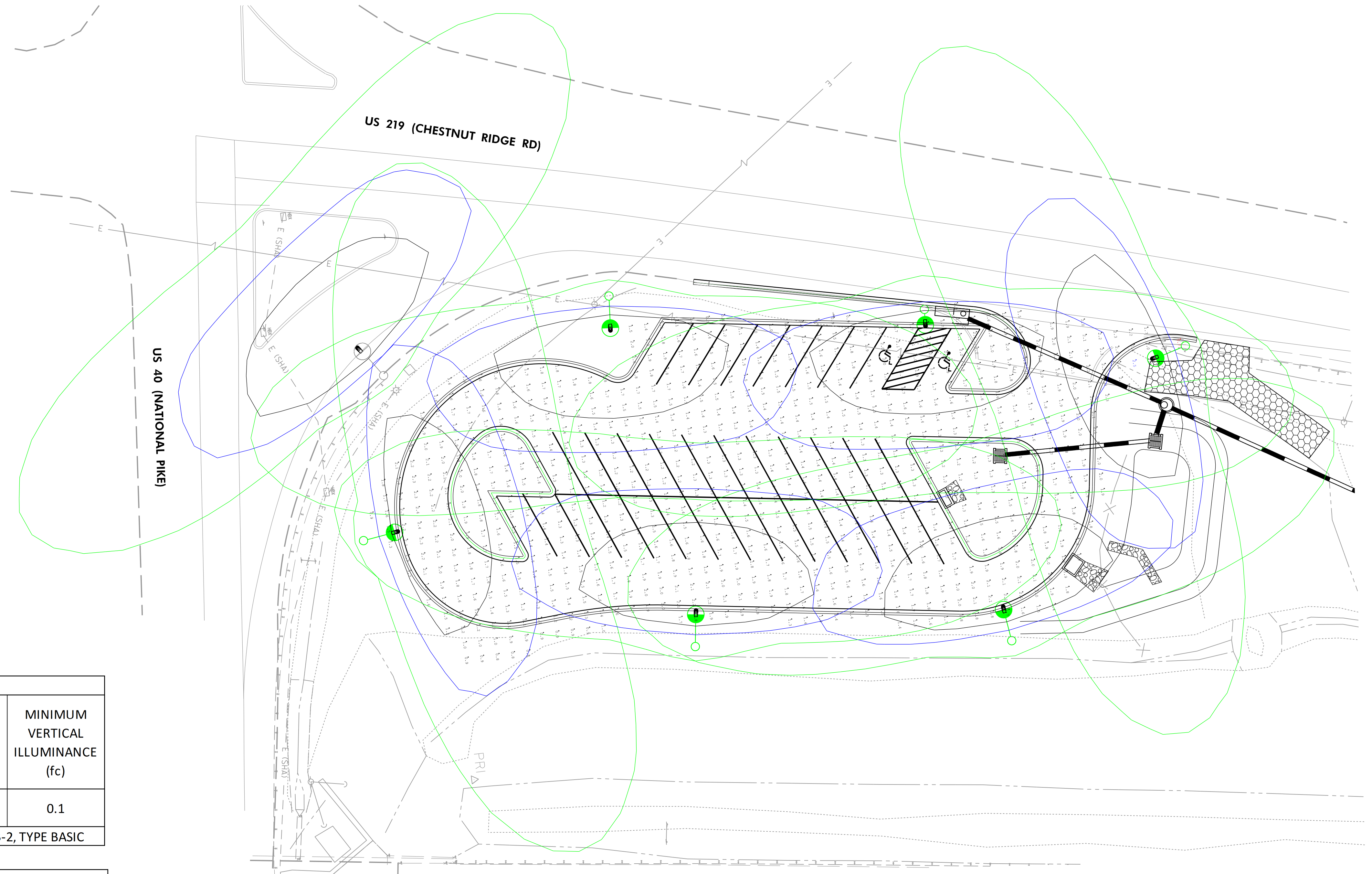


PHOTOMETRIC TEMPLATE LEGEND



SYMBOL LEGEND

-  PROPOSED LIGHTING STRUCTURE
-  EXISTING LIGHTING STRUCTURE




DESIGN CRITERIA					
CALCULATION ZONE NAME	AVERAGE MAINTAINED HORIZONTAL ILLUMINANCE (fc)	MAXIMUM HORIZONTAL ILLUMINANCE (fc)	MINIMUM HORIZONTAL ILLUMINANCE (fc)	HORIZONTAL MAX:MIN RATIO	MINIMUM VERTICAL ILLUMINANCE (fc)
BASIC PARKING*	-	-	0.2	20.0	0.1

\*DESIGN CRITERIA DERIVED FROM 2018 SHA LIGHTING GUIDELINES, TABLE IV.B-2, TYPE BASIC

CALCULATION SUMMARY					
CALCULATION ZONE NAME	AVERAGE MAINTAINED HORIZONTAL ILLUMINANCE (fc)	MAXIMUM HORIZONTAL ILLUMINANCE (fc)	MINIMUM HORIZONTAL ILLUMINANCE (fc)	HORIZONTAL MAX:MIN RATIO	MINIMUM VERTICAL ILLUMINANCE (fc)
PARKING LOT	1.59	2.50	0.70	3.57	0.10

LUMINAIRE DETAILS					
.IES FILE	WATTAGE	DISTRIBUTION	COLOR TEMP.	MOUNTING HEIGHT (FT.)	LLF
RFL-145W64LED-4K-R2M	145	TYPE II MEDIUM	4000K	40	0.64



**MARYLAND DEPARTMENT OF TRANSPORTATION**  
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

US 219 AT US 40 ALT. PARK & RIDE

REVISIONS	PHOTOMETRIC PLAN	
	SCALE 1" = 20'	ADVERTISED DATE _____ CONTRACT NO. GA4335181
	DESIGNED BY KN	COUNTY GARRETT
	DRAWN BY KN	LOGMILE _____
	CHECKED BY QL	TMS NO. _____
	MDE/PRD 17-PR-0075	TOD NO. _____
DRAWING NO. >	<b>PH - 01</b> OF <b>01</b>	SHEET NO. 10 OF 10

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BY: rebeat -