

THE FOLLOWING MARYLAND STANDARD (CONSTRUCTION AND TEMPORARY TRAFFIC CONTROL) DETAILS ARE REQUIRED FOR THE PROJECT:

- MD 104.01-70-73 - CRASH CUSHION SAND FILLED PLASTIC BARRELS (TEMPORARY OR PERMANENT)
- MD 104.00-06-07 - GENERAL NOTES (SIGNS)
- MD 104.00-08-11 - GENERAL NOTES (PORTABLE VARIABLE MESSAGE SIGNS-PVMS, ARROW PANELS, CHANNELIZING DEVICES & PAVEMENT MARKINGS)
- MD 104.01-02 - SIGN SPACING CHART
- MD 104.01-30 B - CHANNELIZATION DEVICE SPACING EQUAL/LESS THAN 40 MPH
- MD 104.01-30 C - CHANNELIZATION DEVICE SPACING GREATER THAN 40 MPH
- MD 104.01-46 - PRECAST TEMPORARY 32 INCH F SHAPE CONCRETE TRAFFIC BARRIER TERMINAL END
- MD 104.01-47-49 - PRECAST TEMPORARY 32 INCH F SHAPE CONCRETE TRAFFIC BARRIER TERMINAL END - RIGHT SIDE APPROACH & DETAILS
- MD 104.01-50-52 - PRECAST TEMPORARY 32 INCH F SHAPE CONCRETE TRAFFIC BARRIER TERMINAL END - LEFT SIDE APPROACH & DETAILS
- MD 104.01-70-73 - CRASH CUSHION SAND FILLED PLASTIC BARRELS (TEMPORARY OR PERMANENT)
- MD 104.01-80 - TAPER LENGTH CRITERIA TABLE
- MD 104.02-02 - SHOULDER WORK/2-LANE, 2-WAY EQUAL/LESS THAN 40 MPH
- MD 104.02-04 - LANE SHIFT RIGHT OR LEFT SIDE/2-LANE, 2-WAY EQUAL/LESS THAN 40 MPH/15 MIN - 12 HRS. OR DAYTIME ONLY
- MD 104.02-18 - MOBILE MARKING OPERATION / 2 LANE, 2-WAY ALL SPEEDS
- MD 104.03-02 - SHOULDER WORK/MULTILANE UNDIV. EQUAL/LESS THAN 40 MPH
- MD 104.03-04 - LEFT LANE CLOSURE/MULTILANE UNDIV. EQUAL/LESS THAN 40 MPH
- MD 104.03-06 - RIGHT LANE CLOSURE/MULTILANE UNDIV. EQUAL/LESS THAN 40 MPH
- MD 104.03-08 - PARTIAL ROADWAY CLOSURE/MULTILANE UNDIV. EQUAL/LESS THAN 40 MPH
- MD 104.04-102 - RIGHT (LEFT) LANES CLOSURE/DIVIDED UNCON. EQUAL/LESS THAN 40 MPH
- MD 104.04-14 - LEFT-TURN BAY CLOSURE/DIVIDED UNCON. EQUAL/LESS THAN 40 MPH
- MD 104.06-09A - PED AND CURB-LANE CONTROL / MULTILANE UNDIV. SPEED LESS THAN OR EQUAL TO 40 MPH / OVER 12 HRS. OR NIGHTTIME USE
- MD 104.06-15-19 - PAVEMENT EDGE DROP-OFF
- MD 104.06-25 - MEDIAN WORK ALL SPEEDS
- MD 374.51 - PRECAST OR CAST IN PLACE SQUARE AND RECTANGULAR COG INLETS 5', 10', 15', & 20'
- MD 374.61 - PRECAST OR CAST IN PLACE SQUARE AND RECTANGULAR COS INLETS 5', 10', 15', & 20'
- MD 381.02 - PRECAST YARD INLET
- MD 384.01 - 48" DIAMETER PRECAST MANHOLE FOR 12" TO 24" PIPES
- MD 384.03 - 60" DIAMETER PRECAST MANHOLE FOR 27" TO 36" PIPES
- MD 384.05 - 72" DIAMETER PRECAST MANHOLE FOR 42" & 48" PIPES
- MD 384.07 - 84" DIAMETER PRECAST MANHOLE FOR 54" & 60" PIPES
- MD 384.09 - 96" DIAMETER PRECAST MANHOLE FOR 72" PIPES
- MD 384.11 - 120" DIAMETER PRECAST MANHOLE FOR 78" & 84" PIPES
- MD 387.11A - LONGITUDINAL UNDERDRAIN LOCATED AT CURB & GUTTER FOR FLEXIBLE PAVEMENT
- MD 620.02-01 - STANDARD TYPES C AND D CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER
- MD 630.02 - STANDARD ENTRANCE CONSTRUCTION RESIDENTIAL AND COMMERCIAL, METHOD NO. 2
- MD 645.02 - STANDARD MONOLITHIC CONCRETE MEDIAN TYPE 'B'
- MD 655.11 - SIDEWALK RAMPS PERPENDICULAR
- MD 655.12 - SIDEWALK RAMPS PARALLEL
- MD 655.13 - SIDEWALK RAMPS COMBINATION
- MD 655.21 - CUT-THROUGH MEDIAN AND ISLAND OPENINGS
- MD 655.40 - DETECTABLE WARNING SURFACES

FOR ALL STANDARDS REFERRED TO ON THE PLANS, THE CONTRACTOR MUST GO TO THE BOOK OF STANDARDS WHICH WILL HAVE THE MOST CURRENT VERSION. THE BOOK OF STANDARDS CAN BE ACCESSED AT: <http://apps.roads.maryland.gov/businesswithsha/bizStdsSpecs/desManualStdPub/publicationsonline/ohd/bookstd/index.asp>. ALL ITEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF THE REFERENCED STANDARD AT THE TIME OF CONSTRUCTION.

OWNER'S CERTIFICATION

I HEREBY CERTIFY THAT ALL 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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

DATE _____ TIMOTHY H. CUPPLES, P.E.
CHIEF, DIVISION OF
TRANSPORTATION ENGINEERING

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES EXECUTIVE REGULATIONS 5-90, 7-02AM AND 36-90, AND MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION "STORM DRAIN DESIGN CRITERIA" DATED AUGUST 1988.

I FURTHER CERTIFY THAT THE ESTIMATED TOTAL AMOUNTS OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE XXX,XXX CUBIC YARDS OF EXCAVATION AND XXX,XXX CUBIC YARDS OF FILL AND THAT THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE XXX,XXX SQUARE FEET.

DATE XX/XX/XXXX _____ XXXX XXXX, P.E.
MD. REGISTRATION NO. XXXXX



ALL AREAS OF SHA PROPERTY AND PROPERTY TO BE DEDICATED TO SHA SHALL BE RESTORED IN CONFORMANCE WITH SHA STANDARD SPECIFICATIONS, EXCEPT AS NECESSARY FOR WORK FOR WHICH THERE ARE NO SHA STANDARD SPECIFICATIONS.

PRIOR TO VEGETATIVE STABILIZATION, ALL DISTURBED AREAS MUST BE TOPSOILED PER THE MONTGOMERY COUNTY "STANDARDS AND SPECIFICATIONS FOR TOPSOIL".

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: XXXXX EXPIRATION DATE: XX-XX-XXXX

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

TI-01

MD 355 BUS RAPID TRANSIT (BRT)

TITLE SHEET

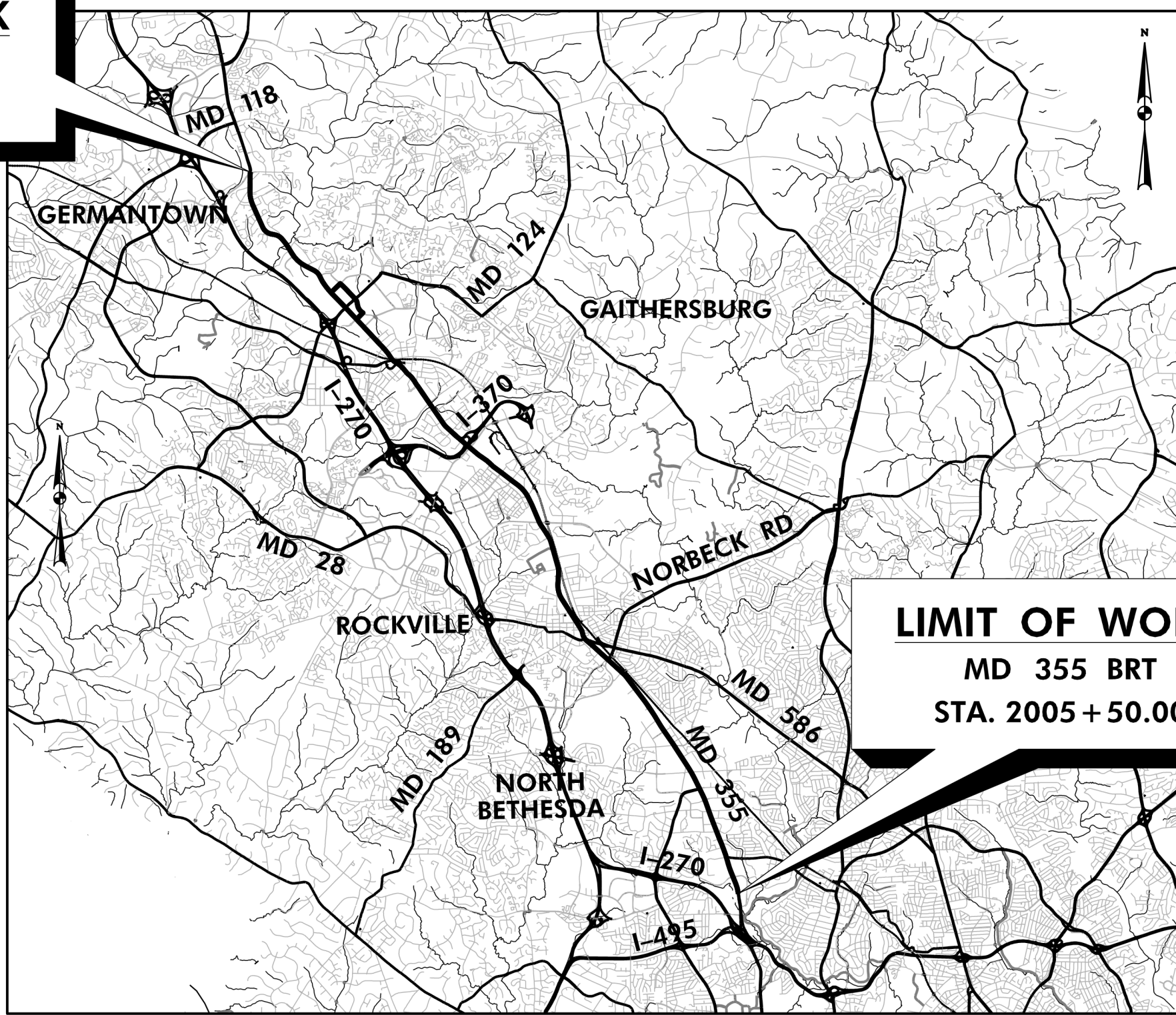
SCALE : N.T.S. DATE : DECEMBER 2022

Project No. : 502005 SHEET 01 of 887

**35% SUBMITTAL
DECEMBER 2022**

**MONTGOMERY COUNTY, MARYLAND
DEPARTMENT OF TRANSPORTATION
MD 355
BUS RAPID TRANSIT (BRT)
C. I. P. PROJECT NO. 502005
SHA TRACKING NO. XX-XX-XX-XXX-XX**

**LIMIT OF WORK
MD 355 BRT
STA. 6134 + 53.47**



**LIMIT OF WORK
MD 355 BRT
STA. 2005 + 50.00**

**VICINITY MAP
SCALE: 1" = 1000'**

RELATED REQUIRED PERMITS					
IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT					
TYPE OF PERMIT	REQD	NOT REQD	PERMIT #	EXPIRATION DATE	WORK RESTRICTION DATES
MDPS Floodplain District		X			
WATERWAYS/WETLAND(S)					
a. Corps of Engineers	X				
b. MDE	X				
c. MDE Water Quality Certification	X				
MDE Dam Safety		X			
*DPS Roadside Trees Protection Plan	X			Approval Date	
N.P.D.E.S. NOTICE OF BRENT	X		REGISTRATION NO. XXXXXXX		DATE FILED XX/XX/XXXX
FEMA LOMR (Required Post Construction)		X			
OTHERS:					
DPS Erosion and Sediment Control	X		XXXXXX		
MNCPPC Park Permit	X		XXXXXX		
* A copy of the Roadside Trees Protection Plan must be delivered to the sediment control inspector at the preconstruction meeting.					
OWNER/PERMIT APPLICANT INFORMATION					
NAME:	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION				
ADDRESS:	100 EDISON PARK DRIVE, GAITHERSBURG, MD 20878				
PHONE NUMBER:	(240) 777-7209				
CONTACT PERSON:	TIMOTHY H. CUPPLES, P.E.				

TREE CANOPY REQUIREMENTS TABLE	
To be completed by the consultant and placed on the first sheet of the Sediment Control/Stormwater Management plan set for all projects	
Exempt: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If exempt under Section 55-5 of the Code, please list the applicable exemption category below this table.	
Project is subject to Chapter 22A-9 of the Mont. Co. Forest Conservation Law	
Total Property Area	Total Disturbed Area
N/A square feet	XX,XXX square feet
Shade Trees Required	Shade Trees Proposed to be Planted
XX	0
Fee in Lieu (Trees Required - Trees Proposed) x \$250	Total Fee in Lieu \$ XX,XXX
Required Number of Shade Trees	
Area (sq. ft.) of the Limits of Disturbance	Number of Shade Trees Required
Exam	To
1	6,000
6,001	8,000
8,001	12,000
12,001	14,000
14,001	40,000
If the square footage of the limits of disturbance is more than 40,000, then the number of shade trees required must be calculated using the following formula: (Number of Square Feet in Limits of Disturbance / 40,000) x 15	
*Please list the square footage of each proposed planting area on the first sheet of the plan set.	
EXEMPTION CATEGORIES:	
<input type="checkbox"/> 55-5(e) any activity that is subject to Article II of Chapter 22A; <input type="checkbox"/> 55-5(b) any commercial logging or timber harvesting operation with an approved exemption from Article II of Chapter 22A; <input type="checkbox"/> 55-5(f) any activity conducted by the County Parks Department; <input type="checkbox"/> 55-5(g) routine emergency maintenance of an existing stormwater management facility, including an existing access road, if the person performing the maintenance has obtained all required permits; <input type="checkbox"/> 55-5(h) any stream restoration project if the person performing the work has obtained all necessary permits; <input type="checkbox"/> 55-5(i) cutting or clearing any tree to comply with applicable provisions of any federal, state, or local law governing safety of dams; <input type="checkbox"/> OTHER: Specify per Section 55-5 of the Code.	

APPROVALS:

TRAFFIC CONTROL PLANS	_____ SIGNATURE _____	_____ DATE _____
LIGHTING PLANS	_____ SIGNATURE _____	_____ DATE _____
SIGNING & PAVEMENT MARKING PLANS	_____ SIGNATURE _____	_____ DATE _____
TRAFFIC SIGNAL PLANS	_____ SIGNATURE _____	_____ DATE _____

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07	I-06	INDEX OF SHEETS
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PROFESSIONAL CERTIFICATION:
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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

SEE TITLE SHEET FOR SIGNATURES
Chief, Design Section _____ Date _____

APPROVED

SEE TITLE SHEET FOR SIGNATURES
Chief, Division of Transportation Engineering _____ Date _____

Designed by : _____ Drawn by : _____ Checked by : _____

MD 355 BUS RAPID TRANSIT (BRT)

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SCALE : N.T.S. DATE : DECEMBER 2022

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280	PR-607	ROADWAY PROFILE
281	PR-608	ROADWAY PROFILE
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283	PR-610	ROADWAY PROFILE
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289	PR-616	ROADWAY PROFILE
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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: _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

SEE TITLE SHEET FOR SIGNATURES _____ Date _____
Chief, Design Section

APPROVED

SEE TITLE SHEET FOR SIGNATURES _____ Date _____
Chief, Division of Transportation Engineering

Designed by : _____ Drawn by : _____ Checked by : _____

MD 355 BUS RAPID TRANSIT (BRT)

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SCALE : N.T.S. DATE : DECEMBER 2022

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578	ESC-53	EROSION AND SEDIMENT CONTROL PLAN - SEGMENT 4
579	ESC-54	EROSION AND SEDIMENT CONTROL PLAN - SEGMENT 4
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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: _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

SEE TITLE SHEET FOR SIGNATURES _____ Date _____
Chief, Design Section
APPROVED

SEE TITLE SHEET FOR SIGNATURES _____ Date _____
Chief, Division of Transportation Engineering

Designed by : _____ Drawn by : _____ Checked by : _____

MD 355 BUS RAPID TRANSIT (BRT)

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704	SN-2.58	SIGNING AND MARKING PLANS
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706	SN-2.60	SIGNING AND MARKING PLANS
707	SN-2.61	SIGNING AND MARKING PLANS
708	SN-2.62	SIGNING AND MARKING PLANS
709	SN-2.63	SIGNING AND MARKING PLANS
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711	SN-2.65	SIGNING AND MARKING PLANS
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I-05



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: _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

SEE TITLE SHEET FOR SIGNATURES
Chief, Design Section _____ Date _____
APPROVED

SEE TITLE SHEET FOR SIGNATURES
Chief, Division of Transportation Engineering _____ Date _____
Designed by : _____ Drawn by : _____ Checked by : _____

MD 355 BUS RAPID TRANSIT (BRT)

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SCALE : N.T.S. DATE : DECEMBER 2022

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SHEET NO.	DWG. NO.	DESCRIPTION
751	S-11	RETAINING WALL NO. RW-203R PLAN (1 OF 2)
752	S-12	RETAINING WALL NO. RW-203R PLAN (2 OF 2)
753	S-13	RETAINING WALL NO. RW-204L PLAN (1 OF 5)
754	S-14	RETAINING WALL NO. RW-204L PLAN (2 OF 5)
755	S-15	RETAINING WALL NO. RW-204L PLAN (3 OF 5)
756	S-16	RETAINING WALL NO. RW-204L PLAN (4 OF 5)
757	S-17	RETAINING WALL NO. RW-204L PLAN (5 OF 5)
758	S-18	RETAINING WALL NO. RW-205R PLAN
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760	S-20	RETAINING WALL NO. RW-207R PLAN
761	S-21	RETAINING WALL NO. RW-208R PLAN
762	S-22	RETAINING WALL NO. RW-209R PLAN
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775	S-35	RETAINING WALL NO. RW-305L PLAN
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779	S-39	RETAINING WALL NO. RW-307L PLAN (2 OF 3)
780	S-40	RETAINING WALL NO. RW-307L PLAN (3 OF 3)
781	S-41	RETAINING WALL NO. RW-401R PLAN & RW-402R
782	S-42	THIS SHEET INTENTIONALLY LEFT BLANK
783	S-43	RETAINING WALL NO. RW-403L PLAN
784	S-44	RETAINING WALL NO. RW-404L PLAN (1 OF 2)
785	S-45	RETAINING WALL NO. RW-404L PLAN (2 OF 2)
786	S-46	RETAINING WALL NO. RW-405L PLAN
787	S-47	RETAINING WALL NO. RW-406L PLAN (1 OF 2)
788	S-48	RETAINING WALL NO. RW-406L PLAN (2 OF 2)
789	S-49	THIS SHEET INTENTIONALLY LEFT BLANK
790	S-50	RETAINING WALL NO. RW-408R PLAN (1 OF 2)
791	S-51	RETAINING WALL NO. RW-408R PLAN (2 OF 2)
792	S-52	RETAINING WALL NO. RW-409L PLAN (1 OF 2)
793	S-53	RETAINING WALL NO. RW-409L PLAN (2 OF 2)
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SHEET NO.	DWG. NO.	DESCRIPTION
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803	S-63	RETAINING WALL NO. RW-607R PLAN
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807	AR-02	ARCHITECTURAL STATION LIST
808	AR-03	ARCHITECTURAL STATION TYPICAL SHELTER AND AMENITIES
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810	AR-05	ARCHITECTURAL PLATFORM PROTOTYPE 1 ELEVATION AND SECTIONS
811	AR-06	ARCHITECTURAL PLATFORM PROTOTYPE 2 PLAN
812	AR-07	ARCHITECTURAL PLATFORM PROTOTYPE 2 ELEVATION AND SECTIONS
813	AR-08	ARCHITECTURAL PLATFORM PROTOTYPE 3 PLAN
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855	TS-3	ITS STATION - GROSVENOR NORTH
856	TS-4	ITS STATION - SECURITY LANE SOUTH
857	TS-5	ITS STATION - SECURITY LANE NORTH
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862	TS-10	ITS STATION - TWINBROOK METRO NB
863	TS-11	ITS STATION - EDMONSTON DRIVE SB
864	TS-12	ITS STATION - EDMONSTON DRIVE NB
865	TS-13	ITS STATION - MOUNT VERNON PLACE
866	TS-14	ITS STATION - ROCKVILLE METRO NB
867	TS-15	ITS STATION - ROCKVILLE METRO SB
868	TS-16	ITS STATION - MONTGOMERY COLLEGE ROCKVILLE
869	TS-17	ITS STATION - KING FARM BLVD
870	TS-18	ITS STATION - SOUTH WESTLAND DRIVE SB
871	TS-19	ITS STATION - SOUTH WESTLAND DRIVE NB
872	TS-20	ITS STATION - EDUCATION BLVD SB
873	TS-21	ITS STATION - EDUCATION BLVD NB
874	TS-22	ITS STATION - ODENDHAL AVENUE SB
875	TS-23	ITS STATION - ODENDHAL AVENUE NB
876	TS-24	ITS STATION - LAKEFOREST TRANSIT CENTER - SB
877	TS-25	ITS STATION - LAKEFOREST TRANSIT CENTER - NB
878	TS-26	ITS STATION - CHRISTOPHER AVENUE - SB
879	TS-27	ITS STATION - CHRISTOPHER AVENUE - NB
880	TS-28	ITS STATION - MIDDLEBROOK ROAD SB
881	TS-29	ITS STATION - MIDDLEBROOK ROAD NB
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I-06



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