

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION

BOYDS TRANSIT
IMPROVEMENTS
C. I. P. PROJECT 509337

DEVELOPER'S/BUILDER'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 OF A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

DATE

TIM 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 PUBLIC WORKS AND TRANSPORTATION "STORM DRAIN DESIGN CRITERIA" DATED JUNE, 2014.

DATE

PAMELA H. DESTINO, P.E.
MD REGISTRATION NO. 42708

CERTIFICATION OF QUANTITIES

I FURTHER CERTIFY THAT THE TOTAL AMOUNTS OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAVE BEEN COMPUTED TO BE 2,700 CUBIC YARDS OF EXCAVATION AND 90 CUBIC YARDS OF FILL AND THAT THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE A MAXIMUM OF 33,358 SQUARE FEET OR 0.77 ACRES.

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 ☐ No ☐ If exempt under Section 55-5 of the Code, please check the applicable exemption category below.

Total Property Area	Total Disturbed Area
square feet	square feet
Shade Trees Required	Shade Trees Proposed to be Planted

Fee in Lieu (Trees Required - Trees Planted) x \$250	\$

Required Number of Shade Trees

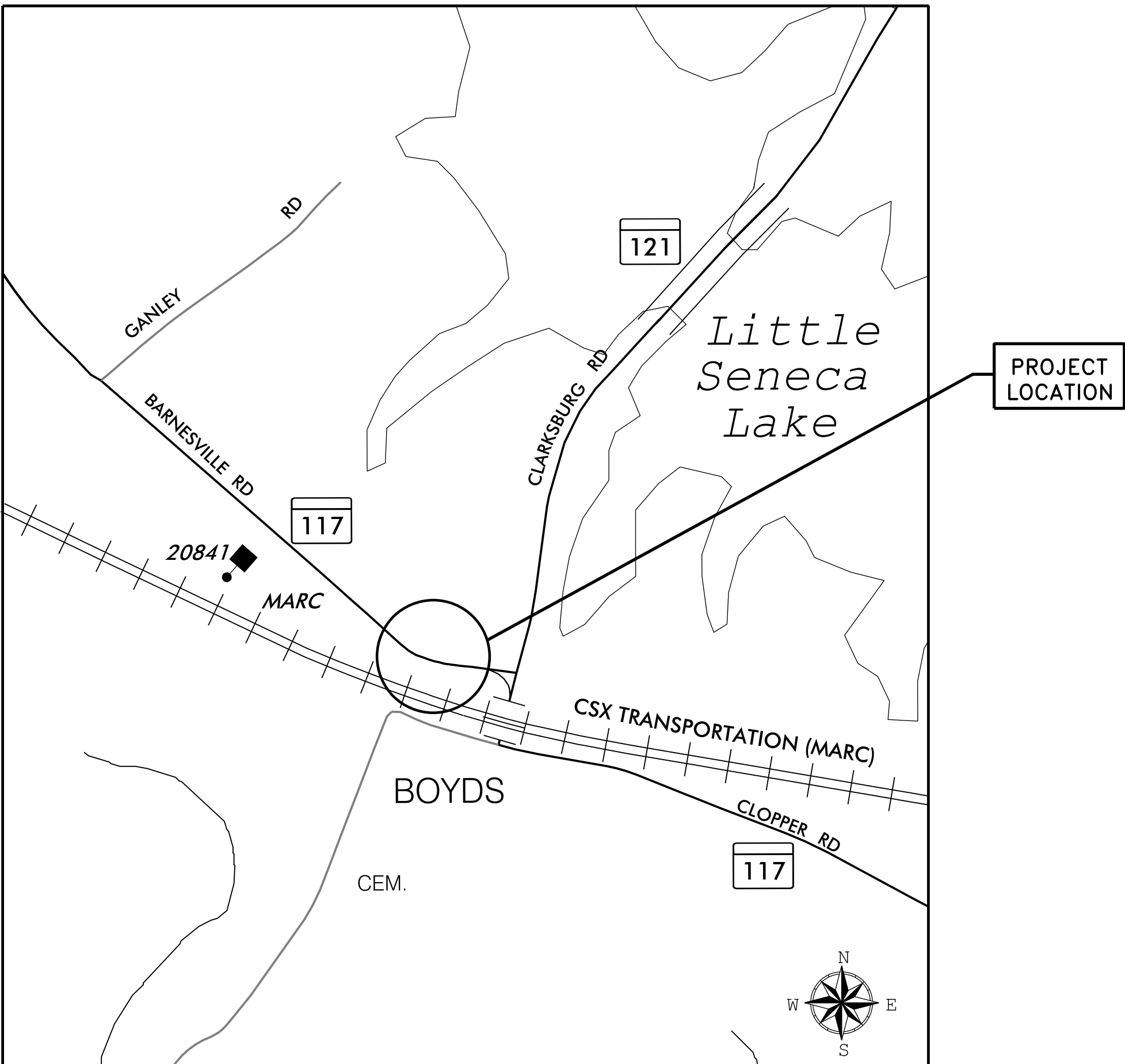
Area (sq. ft.) of the Limits of Disturbance	Number of Shade Trees Required
FROM 1	3
TO 6,000	6
6,001	9
8,001	12
12,001	15
14,001	

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) × 15

EXEMPTION CATEGORIES:

<input type="checkbox"/> 55-5(a) any activity that is subject to Article II of Chapter 22A;	<input type="checkbox"/> maintenance has obtained all required permits;
<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(h) any stream restoration project if the person performing the work has obtained all necessary permits;
<input type="checkbox"/> 55-5(i) any activity conducted by the County Parks Department;	<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"/> 55-5(j) routine or emergency maintenance of an existing stormwater management facility, including an existing access road, if the person performing the	<input type="checkbox"/> OTHER: Specify per Section 55-5 of the Code.



PROJECT LENGTH = 0.00 MILES MONTGOMERY COUNTY

VICINITY MAP
SCALE : 1"= 500'

OWNER/ADDRESS:
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

CONTACT
REBECCA PARK, P.E.
240-777-7263

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: _____



Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231

IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SHEET TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF APPROVED SEDIMENT CONTROL PERMIT.					
TYPE OF PERMIT	REQD	NOT REQD	PERMIT NO.	EXPIRATION DATE	WORK RESTRICTION DATES
M.C.D.E.P. Floodplain District		X			
WATERWAY/WETLANDS					
a. Corps of Engineers		X			
b. M.D.E.		X			
c. M.D.E. Water Quality Certification		X			
M.D.E. Dam Safety		X			
DNR Roadside Tree Core Permit		X			
DPS Roadside Tree Protection Plan		X			
N.P.D.E.S. NOTICE OF INTENT	X				
M.C.D.P.S. STORMWATER MANAGEMENT	X				
M.C.D.P.S. SEDIMENT CONTROL	X				

GENERAL NOTES

- THE SPECIFICATIONS FOR THIS CONTRACT WILL BE THOSE OF THE MARYLAND STATE HIGHWAY ADMINISTRATION DATED JULY 2008, ALL ERRATA AND ADDENDA THERETO. THE MARYLAND STATE HIGHWAY ADMINISTRATION BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES, WASHINGTON SUBURBAN SANITARY COMMISSION (W.S.S.C.) STANDARDS, MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION STANDARDS, AND SOIL CONSERVATION SERVICE POND CONSTRUCTION SPECIFICATIONS FOR MARYLAND.
- HORIZONTAL DATUM: NAD 83(1991) VERTICAL DATUM: NAVD 88.
- TYPES OF STORM DRAIN STRUCTURES REFER TO THE "DESIGN STANDARDS" OF MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION, UNLESS OTHERWISE NOTED.
- WHEN THE DROP ON THE MAIN LINE THROUGH A STORM DRAIN STRUCTURE CAN BE ACCOMMODATED BY AN INVERT SLOPE OF 1:5:1 OR FLATTER, A ROUNDED CHANNEL LINED WITH SEWER BRICK ON EDGE SHALL BE BUILT TO THE CROWN OF THE PIPES. WHEN THE INVERT SLOPES WOULD BE GREATER THAN 1:5:1 A SPECIAL INVERT SHALL BE CONSTRUCTED AS NOTED.
- ALL STORM DRAIN PIPE SHALL BE INSTALLED WITH CLASS "C" BEDDING UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO STORM DRAIN STRUCTURES, WHEN NECESSARY, TO MEET EXISTING CONDITIONS, AS APPROVED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN OR SIX (6) INCHES, WHICHEVER IS LESS, CONTACT MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
- REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
- CLEARING IS TO BE LIMITED TO THE "LIMIT OF GRADING" AS SHOWN ON THE PLANS.
- ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
- DISTURBED AREAS ADJACENT TO ESTABLISHED LAWNS SHALL BE SODDED. OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
- THE CONTRACTOR SHALL OBTAIN A ROADSIDE TREE PERMIT FOR ANY MAINTENANCE, TREATMENT, PLANTING, REMOVAL, OR ROOT CUTTING ON TREES WITHIN THE PUBLIC RIGHT OF WAY. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES, MARYLAND FOREST, PARK AND WILDLIFE SERVICE, TELEPHONE 301-854-6060.
- CONTACT THE WASHINGTON SUBURBAN SANITARY COMMISSION SYSTEM MAINTENANCE ENGINEER BEFORE EXCAVATING BENEATH OR IN THE VICINITY OF EXISTING WATER OR SEWER LINES. BACKFILL TO BE DONE UNDER SUPERVISION OF CALL 301-206-9772
- ALL UTILITY POLES NOTED FOR RELOCATION SHALL BE PERFORMED BY OTHERS.
- PRIOR TO VEGETATIVE STABILIZATION, ALL DISTURBED AREAS MUST BE TOPSOILED PER THE MONTGOMERY COUNTY "STANDARDS AND SPECIFICATIONS FOR TOPSOIL".
- CALL "MISS UTILITY" AT 1-800-257-7777 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

MCDPS-SC/SWM SHEET NO. 1 OF 9

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
STORMWATER MANAGEMENT	SEDIMENT CONTROL TECHNICAL REQUIREMENTS	ADMINISTRATIVE REQUIREMENTS
Reviewed _____ Date _____	Reviewed _____ Date _____	Reviewed _____ Date _____
Approved _____ Date _____	Approved _____ Date _____	Approved _____ Date _____
S.W. FILE NO. _____		

MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED UNLESS THE PERMIT HAS BEEN EXTENDED

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: PHD Drawn by: JDG Checked by: JAG

TI-01 TITLE SHEET

BOYDS TRANSIT
IMPROVEMENTS








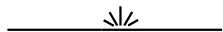

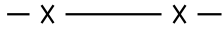

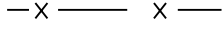



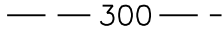

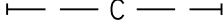

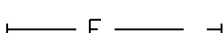

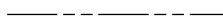







SCALE : NTS JUNE 2019

Project No. : 509337 SHEET 1 of 9

INDEX OF SHEETS

SHEET NO.	DRAWING DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, LEGEND, AND ABBREVIATIONS
3	GS-01 - GEOMETRIC LAYOUT SHEET
4	HT-01 - TYPICAL SECTIONS
5	PD-01 - PAVEMENT DETAILS
6	HD-01 - ROADWAY PLAN
7	HP-01 - ROADWAY PROFILE
8	GR-01 - SITE GRADING PLAN
9	SN-2.01 - SIGNING AND MARKING PLAN

LEGEND

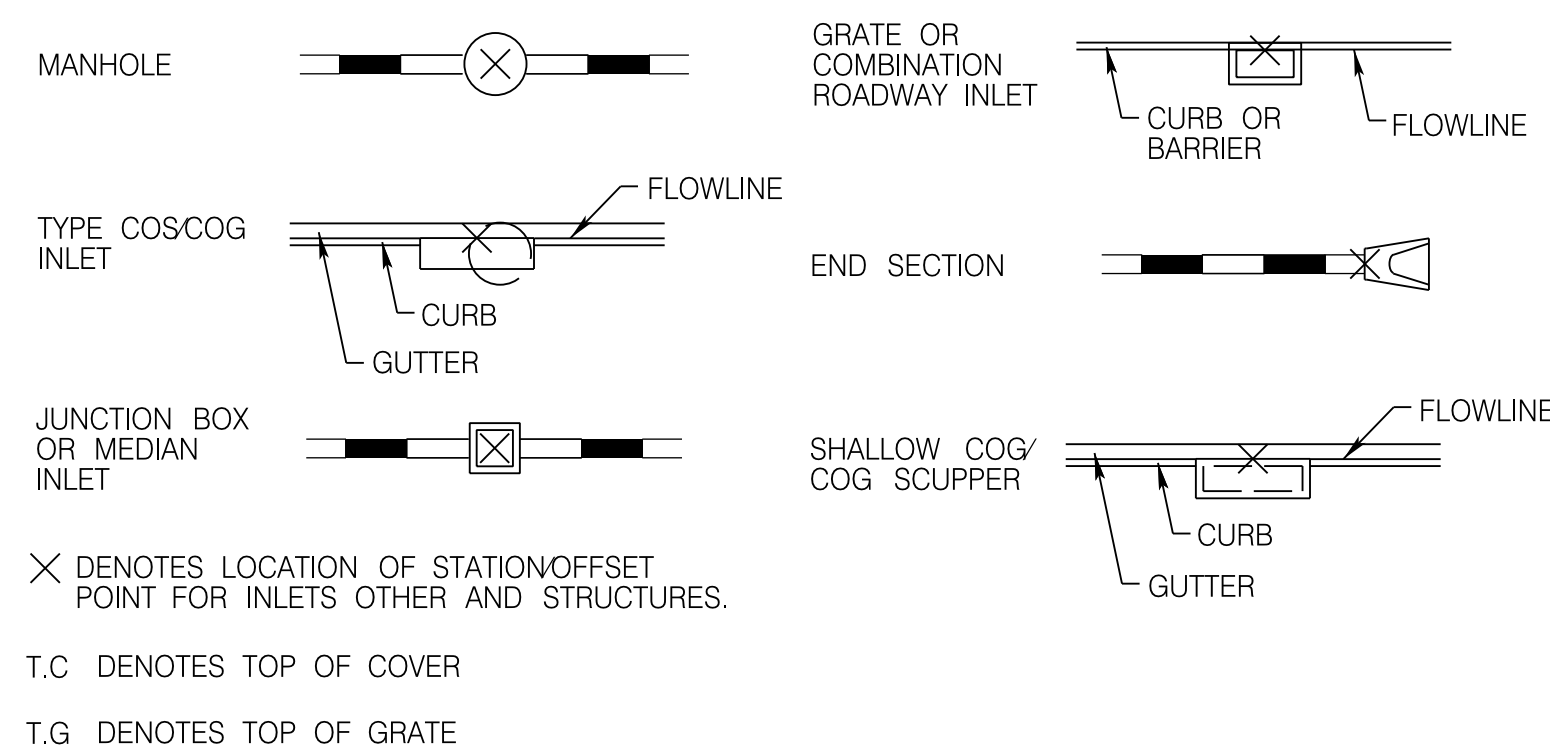
	TELEPHONE MANHOLE		EXISTING WBEAM
	WATER METER		PROPOSED WBEAM
	WATER VALVE		WETLAND BUFFER
	SEWER MANHOLE		WETLAND
	STORM DRAIN MANHOLE		PROPOSED FENCE
	GAS VALVE		EXISTING CHAINLINK FENCE
	SIGN		INDEX CONTOUR
	LIGHT POLE		INTERVAL CONTOUR
	UTILITY POLE		TOP OF CUT
	FIRE HYDRANT		TOE OF FILL
	PARKING METER		EXISTING RIGHT OF WAY LINE
	TREE		LIMIT OF DISTURBANCE
	BORING		TEMPORARY CONSTRUCTION EASEMENT
	INLET		PERPETUAL EASEMENT
	MANHOLE		

A.A.S.H.T.O.....	American Association of State Highway Transportation Officials	LP.....	Low Point
APPROX.....	Approximate	LT.....	Left
B or B/L.....	Baseline	MAX.....	Maximum
C.C.....	Center of Curve	MOD.....	Modified
C or C/L.....	Centerline	MIN.....	Minimum
C.I.P.....	Cast Iron Pipe	N.....	North
C.M.P.....	Corrugated Metal Pipe	NB.....	Northbound
C.O.....	Cleanout	NE.....	Northeast
COMB.....	Combination	NTS.....	Not To Scale
CONC.....	Concrete	O.C.....	On Center
CONSTR.....	Construction	P.C.....	Point of Curvature
C.P.P.....	Corrugated Polyethylene Pipe	P.C.C.....	Point of Compound Curve
D.B.H.....	Diameter Breast Height	P/C.....	Point of Crown
DC.....	Degree of Curve	P/GE.....	Profile Grade Elevation
D.H.V.....	Design Hourly Volume	P.G.E.....	Profile Ground Elevation
D.I.....	Drop Inlet	P.G.L.....	Profile Grade Line
DIA.....	Diameter	P/GL.....	Profile Ground Line
D.O.....	Double Opening	P/R.....	Point of Rotation
E.....	East	P.I.....	Point of Intersection
E.....	Electric	P.O.C.....	Point on Curve
E.....	External Distance	P.O.T.....	Point on Tangent
EA.....	Each	PROP.....	Proposed
E.B.....	Eastbound	PT.....	Point
ELEV.....	Elevation	P.T.....	Point of Tangency
E.R.C.C.P.....	Elliptical Reinforced Cement Concrete Pipe	P.V.C.....	Point of Vertical Curve
ES.....	End Section	PVC.....	Polyvinyl Chloride
EX. or EXIST.....	Existing	PVI.....	Point of Intersection
FT.....	Feet	R.....	Radius
F or FL.....	Flowline	RET. WALL.....	Retaining Wall
FWD.....	Forward	RT.....	Right
G.....	Gas	R or R/W.....	Right of Way
H.E.R.C.P.....	Horizontal Elliptical Reinforced Concrete Pipe	R.C.P.....	Reinforced Cement Pipe
HP.....	High Point	R.C.C.P.....	Reinforced Cement Concrete Pipe
HMA.....	Hot Mix Asphalt	S.....	South
HT.....	Height	SAM.....	Superpave Asphalt Mix
IN.....	Inch	SB.....	Southbound
INV.....	Invert	S.D.....	Storm Drain
L.....	Length	S.E.....	Superelevation
LANDSC.....	Landscaped	SF.....	Silt Fence
L.F.....	Linear Feet	S.F.....	Square Feet
		SS.....	Sanitary Sewer
		SSD.....	Stopping Sight Distance
		SSF.....	Super Silt Fence









ABBREVIATIONS

LP.....	Low Point	STA.....	Station
LT.....	Left	SO.....	Single Opening
MAX.....	Maximum.	S.Y.....	Square Yards
MOD.....	Modified	SWM.....	Storm Water Management
MIN.....	Minimum	SW.....	Sidewalk
N.....	North	T.....	Tangent
NB.....	Northbound	T.....	Telephone
NE.....	Northeast	T.C.P.....	Terra Cotta Pipe
NTS.....	Not To Scale	TYP.....	Typical
O.C.....	On Center	U.P.....	Utility Pole
P.C.....	Point of Curvature	VAR.....	Varies
P.C.C.....	Point of Compound Curve	V.C.L.....	Vertical Curve Length
P/C.....	Point of Crown	W.....	Water
P/GE.....	Profile Grade Elevation	W.....	West
P.G.E.....	Profile Ground Elevation	WB.....	Westbound

DRAINAGE STRUCTURE STAKEOUT LOCATION



DRAINAGE BUBBLES (SAMPLES)

INLET	
MANHOLE	
JUNCTION BOX	
FIELD CONNECTION	
BEND	
END SECTION	
END WALL	
ADJUST EX. STRUCTURE	

MCDPS-SC/SWM SHEET NO. 2 OF 9

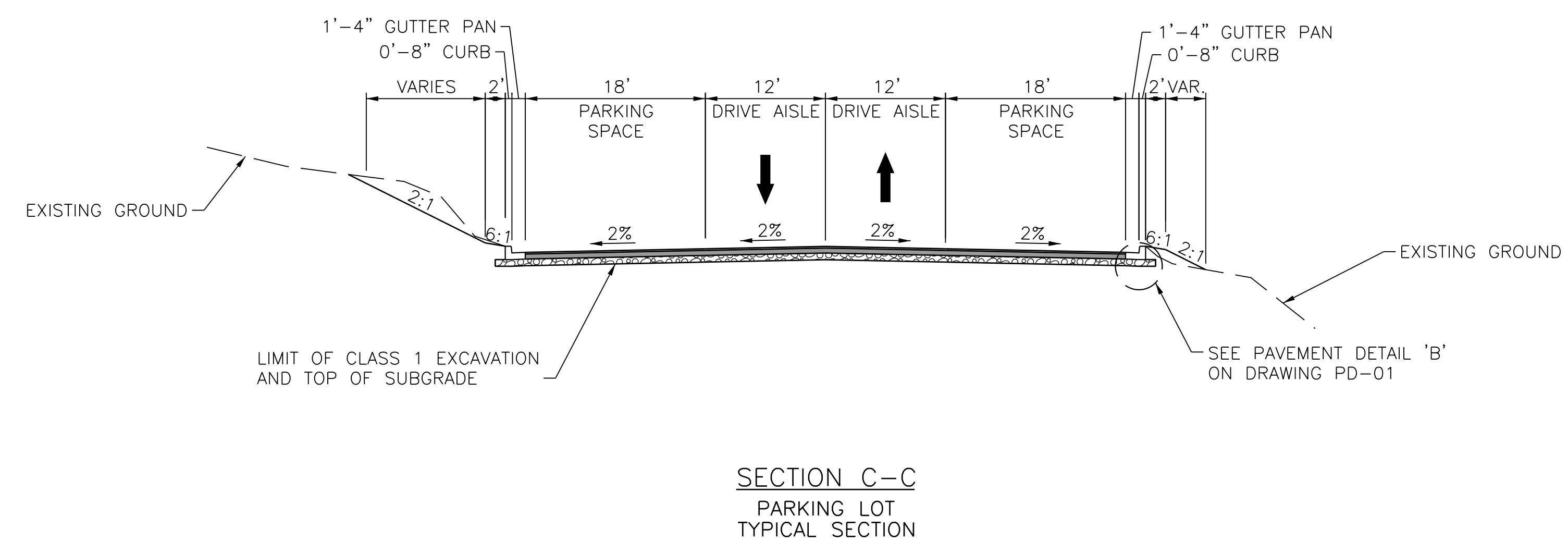
MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCOPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCOPS ACCESS PERMIT.
STORMWATER MANAGEMENT <u>ESDS AND WAIVERS</u> _____ Reviewed _____ Date _____ Approved _____ Date _____ _____ S.M. FILE NO. <u>XXXXXX</u>	SEDIMENT CONTROL TECHNICAL REQUIREMENTS _____ Reviewed _____ Date _____ Approved _____ Date _____ _____	ADMINISTRATIVE REQUIREMENTS _____ Reviewed _____ Date _____ <u>XXXXXX</u> SEDIMENT CONTROL PERMIT NO. _____ _____ MCOPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEAR FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED UNLESS THE PERMIT HAS BEEN EXTENDED

DPS APPROVAL OF A SEDIMENT CONTROL OR STORMWATER MANAGEMENT PLAN IS FOR DEMONSTRATED COMPLIANCE WITH MINIMUM ENVIRONMENTAL RUNOFF TREATMENT STANDARDS AND DOES NOT CREATE OR IMPLY ANY RIGHT TO DIVERT OR CONCENTRATE RUNOFF ONTO ANY ADJACENT PROPERTY WITHOUT THAT PROPERTY OWNER'S PERMISSION. IT DOES NOT RELIEVE THE ENGINEER OR OTHER RESPONSIBLE PERSON OF PROFESSIONAL LIABILITY OR ETHICAL RESPONSIBILITY FOR THE ADEQUACY OF THE DRAINAGE DESIGN AS IT AFFECTS VEHICULAR OR DOWNHILL PROPERTIES.

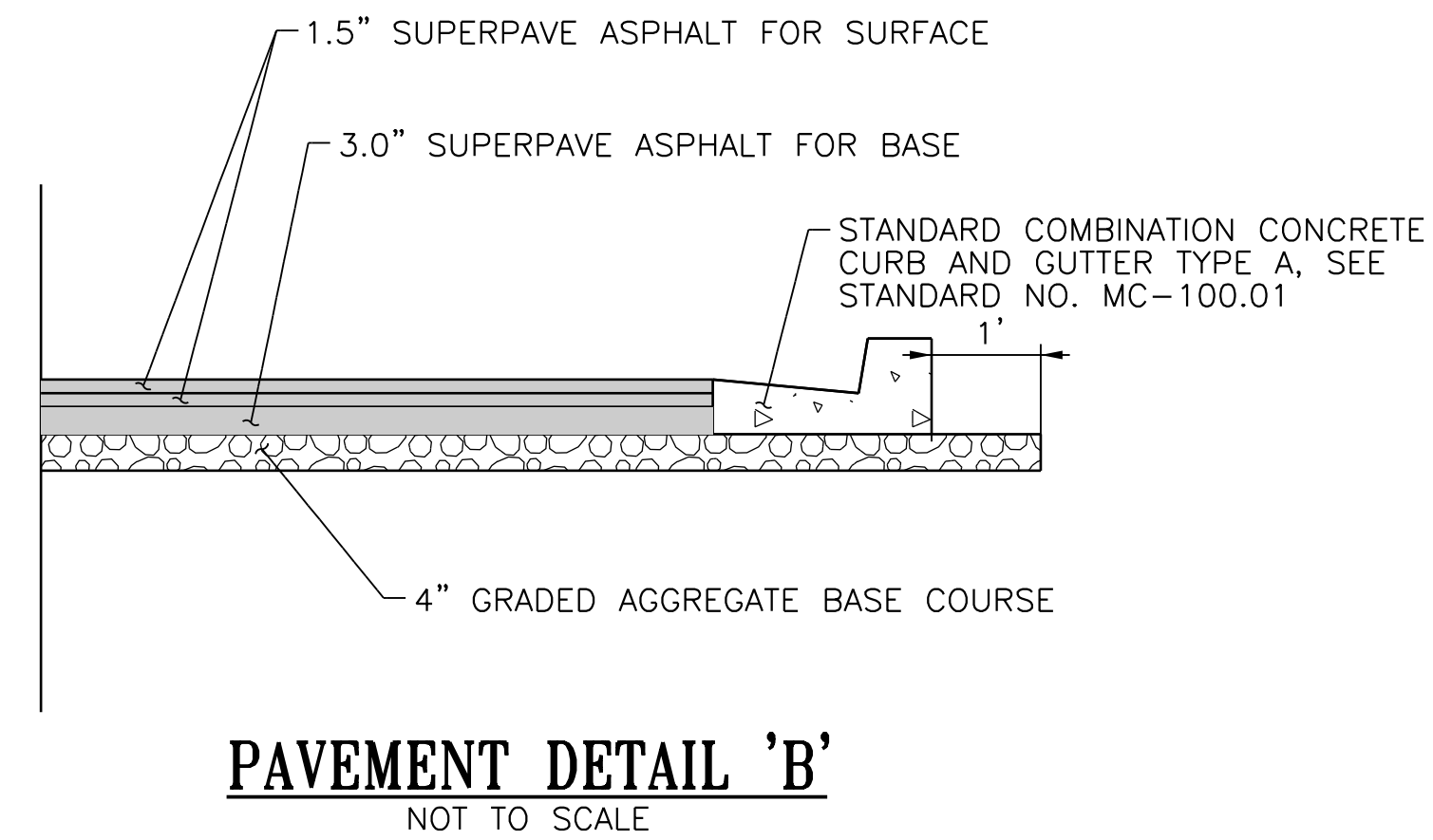
				<p style="text-align: center;">MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND</p>						<p style="text-align: center;">INDEX OF SHEETS, LEGEND, AND ABBREVIATIONS</p>							
				<p>RECOMMENDED FOR APPROVAL</p>													
				<p>_____ Chief, Transportation Planning and Design Section APPROVED</p>						<p>_____ Date</p>							
				<p>_____ Chief, Division of Transportation Engineering</p>						<p>_____ Date</p>							
				<p>Designed by: <u>PHD</u> Drawn by: <u>JDG</u> Checked by: <u>JAG</u></p>						<p>Project No. : <u>509337</u> SHEET <u>2</u> of <u>9</u></p>							
NO.				REVISION				DATE				BY					

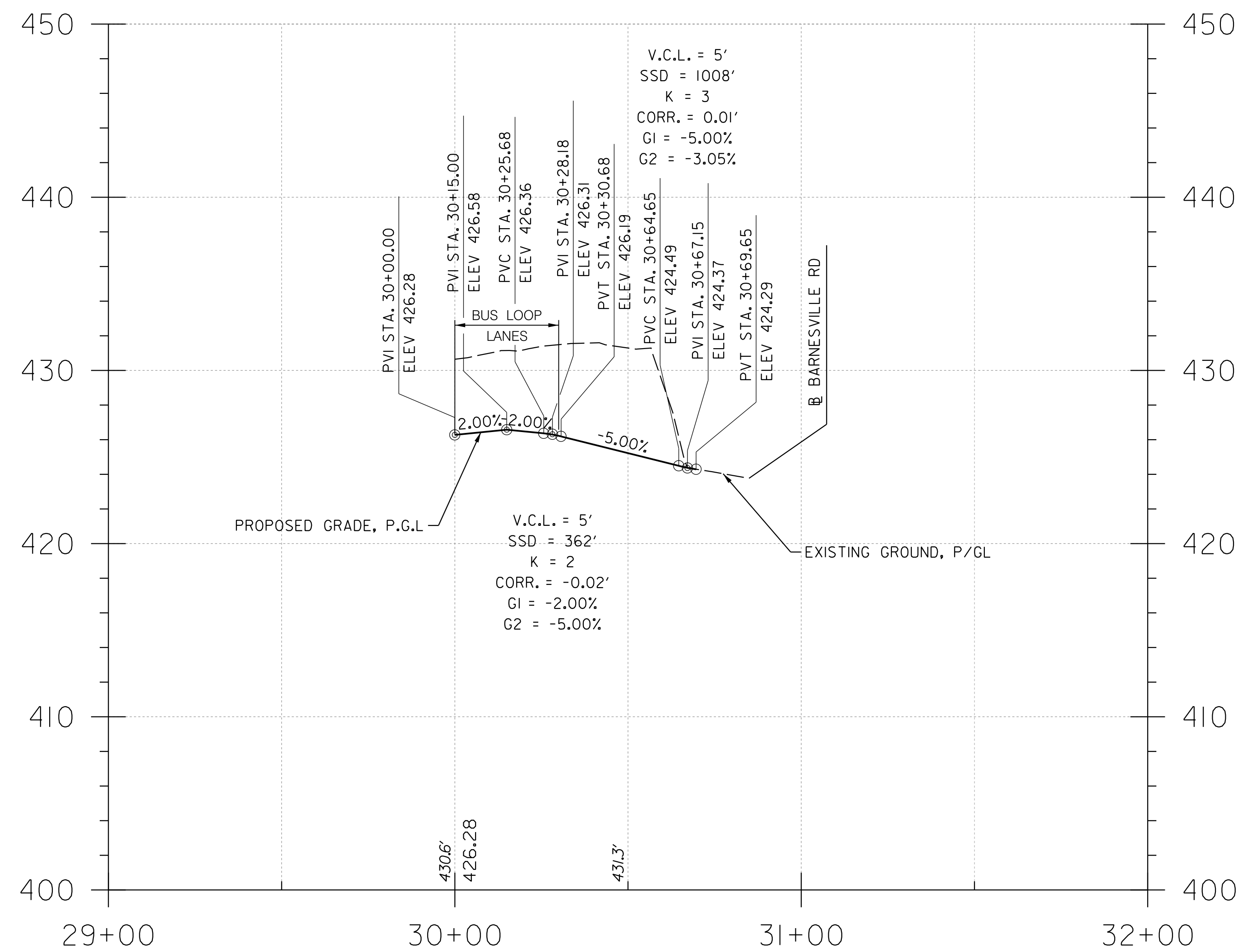
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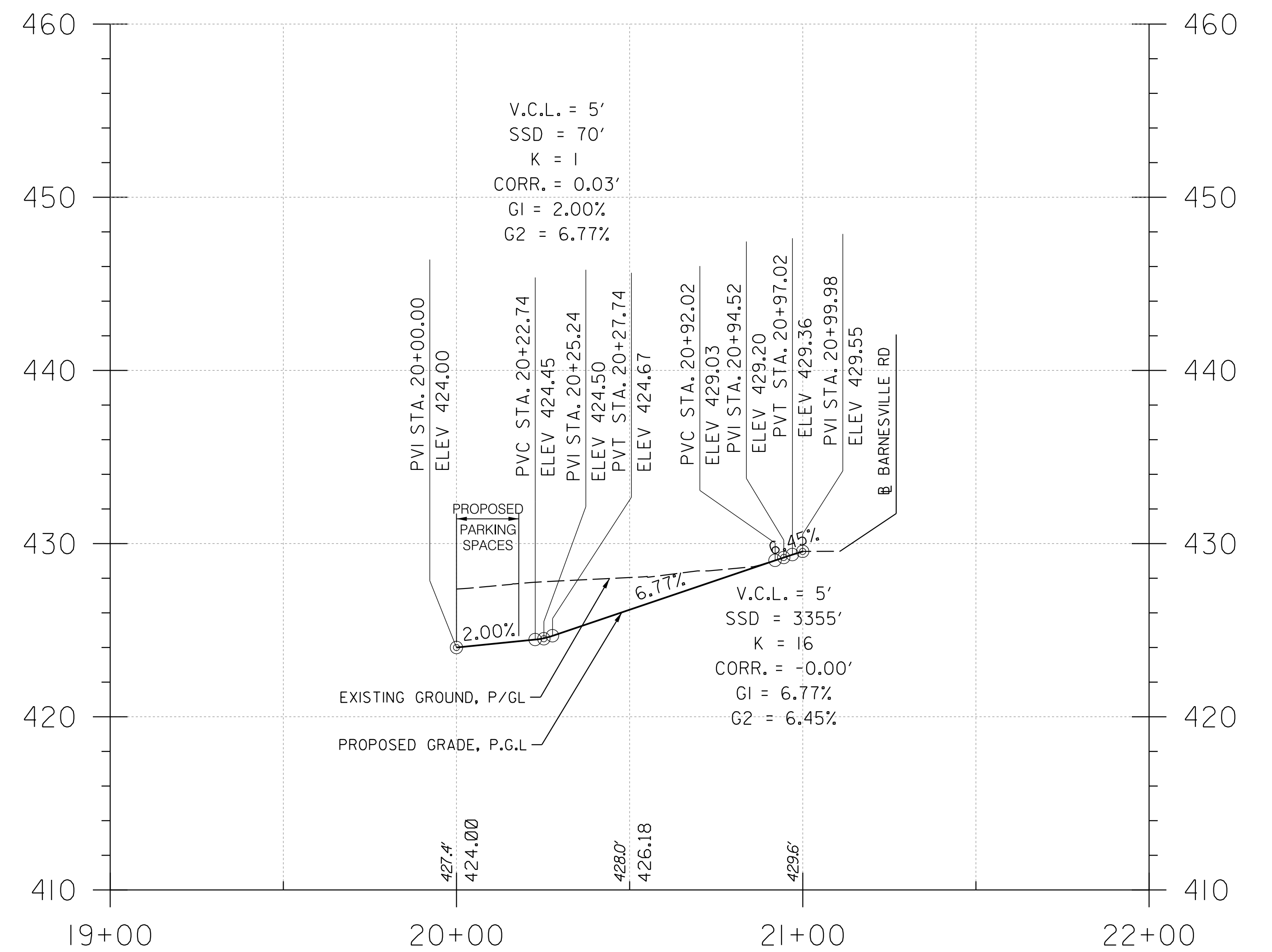


SECTION C-C
PARKING LOT
TYPICAL SECTION



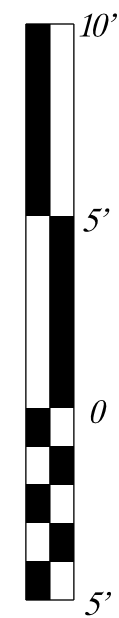


BOYDS EXIT

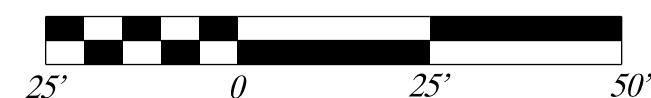


BOYDS ENTRANCE

VERTICAL SCALE: 1"=5'



HORIZONTAL SCALE: 1"=25'



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801 South Caroline Street, Baltimore, Maryland 21231

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
APPROVED _____ Date _____

Chief, Division of Transportation Engineering

Designed by: PHD Drawn by: KHL Checked by: JAG

HP-01 ROADWAY PROFILE

BOYDS TRANSIT
IMPROVEMENTS

1"= 25' H
SCALE : 1"= 10' V

JUNE 2019

Project No. : 509337

SHEET 7 of 9

