

Mr. Jason Cosler, PE Whitman, Requardt & Assoc 801 South Carolina Street Baltimore, MD 21231 Via email: jcosler@wrallp.com

> COMBINED STORMWATER MANAGEMEN CONCEPT/SITE DEVELOPMENT Boyd Transit Center Address: 15100 Barnesville RD Tract Size: 1.21 ac

Total Concept Area: 1.21 a

Watershed: Seneca Creek

Based on a review by the Department of Permitting Services Review Staff, the stormwater management concept for the above mentioned site is acceptable. The stormwater management concept proposes to meet required stormwater management goals via permeable paving. This approval includes the granting of a partial waiver from the requirements to provide on-site SWM

The following items will need to be addressed during the detailed sediment control/stormwater management plan stage:

- 1. A detailed review of the stormwater management computations will occur at the time of detailed plan review
- 2. An engineered sediment control plan must be submitted for this development. 3. All facilities must be designed using latest available MCDPS guidance documents
- This list may not be all-inclusive and may change based on available information at the time.

Payment of a stormwater management contribution in accordance with Section 2 of the Stormwater Management Regulation 4-90 is required.

Mr. Jason Cosler. PE March 23, 2020

This letter must appear on the sediment control/stormwater management plan at its initial submittal. The concept approval is based on all stormwater management structures being located outside of the Public Utility Easement, the Public Improvement Easement, and the Public Right of Way unless specifically approved on the concept plan. Any divergence from the information provided to this office; or additional information received during the development process; or a change in an applicable Executive Regulation may constitute grounds to rescind or amend any approval actions taken, and to reevaluate the site for additional or amended stormwater management requirements. If there are subsequent additions or modifications to the development, a separate concept request shall be required

If you have any questions regarding these actions, please feel free to contact Mary Fertig at 240 777-6340 or at mary.fertig@montgomerycountymd.gov.

Mark C. Etheridge, Manager Division of Land Development Services

MCE: MMF

SM File # 285472

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

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

DATE

To be completed by the consultant and placed on the firs	QUIREMENTS TABLE t sheet of the Sediment Control / Stormwater Management r all projects.			
Exempt: Yes No leave the No leave 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			

**Required Number of Shade Trees** Area (sq. ft.) of the Limits Number of Shade Trees Required of Disturbance 6,001 8,000 8,001 12,000 12,001 14,000

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  $\div 40,000 \times 15$ 

**EXEMPTION CATEGORIES:** 

55-5(a) any activity that is subject to Article II of 55-5(b) any commercial logging or timber arvesting operation with an approved exemption from Article II of Chapter 22A; 55-5(f) any activity conducted by the County Par

existing access road, if the person performing the

Fee in Lieu

14,001

(Trees Required – Trees Planted) x \$250

55-5(h) any stream restoration project if the erson performing the work has obtained all 55-5(i) cutting or clearing any tree to comply with applicable provisions of any federal, state, or local law overning safety of dams; 55-5(g) routine or emergency maintenance of an OTHER: Specify per Section 55-5 of the Code. existing stormwater management facility, including an

JASON D. COSLER, P.E. MD REGISTRATION NO. 28467

## CERTIFICATION OF QUANTITIES

FILL AS SHOWN ON THESE PLANS HAVE BEEN COMPUTED TO BE 4,500 CUBIC YARDS OF EXCAVATION AND 1,300 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 56,464 SQUARE FEET OR 1.30 ACRES.

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

I FURTHER CERTIFY THAT THE TOTAL AMOUNTS OF EXCAVATION AND

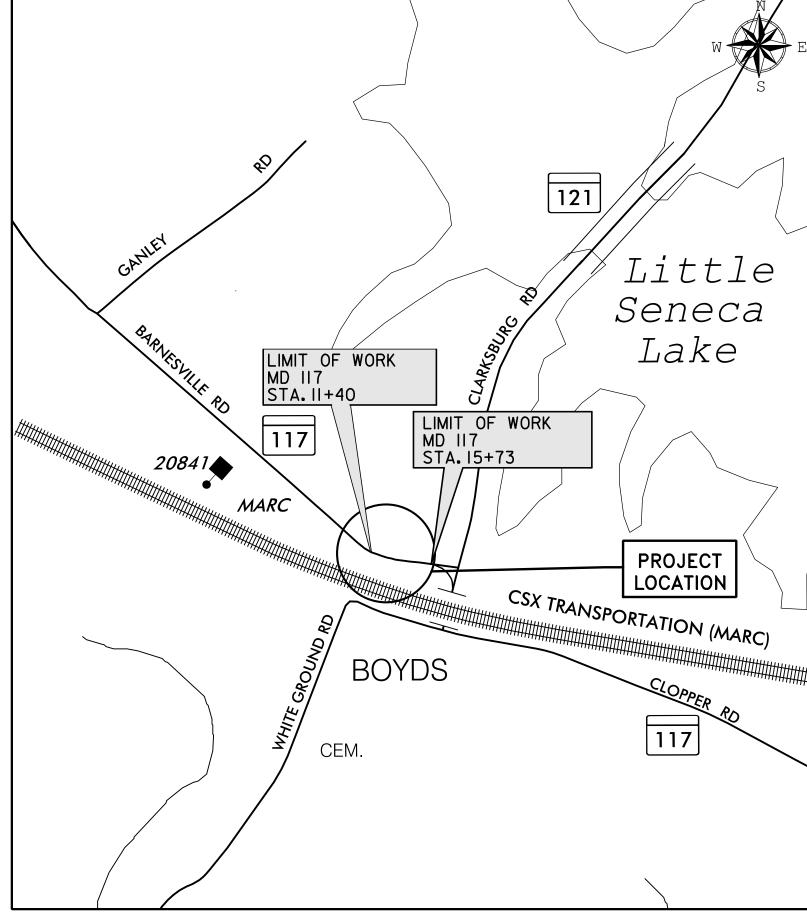
DATE

DEPARTMENT OF TRANSPORTATION BOYDS TRANSIT

IMPROVEMENTS -70% DESIGN

MONTGOMERY COUNTY

C. I. P. PROJECT 509337



PROJECT LENGTH = 0.08 MILES

EXPIRATION DATE:\_

MONTGOMERY COUNTY

measure type of drainage impervious

Does not drain to a SWM measure

QN Waiver acres and % impervious

QL Waiver arcres and % impevious

ESDv Provided 5,895 cf

Structural Required N/A

Strucutural Provided N/A

ESDv Required

Permeabl 0.51 ac. 0.42 ac.

0.51 ac. 0.42 ac.

N/A N/A

1.30 ac. 0.83 ac.

5,895 (ESD Target)/ 2,948 (ESD Min)

area to area to % Imperviou

measure

VICINITY MAP SCALE : 1"= 500'

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

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

## 11. ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE. 12. DISTURBED AREAS ADJACENT TO ESTABLISHED LAWNS SHALL BE SODDED. OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED. 13. 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.

REQD NOT REQD

X

PERMIT NO.

EXPIRATION DATE

RESTRICTION DATE:

TYPE OF PERMIT

Floodplain District WATERWAY/WETLANDS a. Corps of Engineers

b. M.D.E.

c. M.D.E. Water Quality Certification

M.D.E. Dam Safety DNR Roadside Tree Care Permit

DPS Roadside Tree

Protection Plan

NOTICE OF INTENT

M.C.D.P.S. STORMWATER

MANAGEMENT

M.C.D.P.S. SEDIMENT

GENERAL NOTES

2. THE SPECIFICATIONS FOR THIS CONTRACT WILL BE THOSE OF THE LATEST EDITION OF THE MARYLAND DEPARTMENT OF TRANSPORTATION

4. TYPES OF STORM DRAIN STRUCTURES REFER TO THE "DESIGN STANDARDS" OF MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION.

5. WHEN THE DROP ON THE MAIN LINE THROUGH A STORM DRAIN STRUCTURE CAN BE ACCOMMODATED BY AN INVERT SLOPE OF 1.5:1 OR

7. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO STORM DRAIN STRUCTURES, WHEN NECESSARY, TO MEET EXISTING CONDITIONS, AS

8. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE

TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN OR SIX (6) INCHES, WHICHEVER IS LESS, CONTACT MONTGOMERY COUNTY DEPARTMENT

EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF

9. REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE

OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.

AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE COUNTY BEFORE PROCEEDING WITH CONSTRUCTION.

FLATTER, A ROUNDED CHANNEL LINED WITH SEWER BRICK ON EDGE SHALL BE BUILT TO THE CROWN OF THE PIPES. WHEN THE INVERT

STATE HIGHWAY ADMINISTRATION. THE MARYLAND DEPARTMEMNT OF TRANSPORTATION 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.

1. SITE CLEANUP, DEMOLITION AND GROUNDWATER REMEDIATION SHALL BE DONE UNDER A SEPARATE CONTRACT.

SLOPES WOULD BE GREATER THAN 1.5:1 A SPECIAL INVERT SHALL BE CONSTRUCTED AS NOTED.

6. ALL STORM DRAIN PIPE SHALL BE INSTALLED WITH CLASS "C" BEDDING UNLESS OTHERWISE SPECIFIED.

APPROVED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR.

3. HORIZONTAL DATUM: NAD 83(1991) VERTICAL DATUM: NAVD 88.

14. 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 WSSC MAINTENANCE ENGINEER. CALL

15. ALL UTILITY POLES NOTED FOR RELOCATION SHALL BE PERFORMED BY OTHERS.

10. CLEARING IS TO BE LIMITED TO THE "LIMIT OF GRADING" AS SHOWN ON THE PLANS.

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

Checked by: PHD

17. 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.

0.8					Date 285472 .M. FILE NO.				THE DATE OF APPROVA	THIS PLAN WILL EXPIRE ONE Y AL IF THE PROJECT HAS NOT PERMIT HAS BEEN EXTENDED	STARTED	
				Reviewed	Date	Approved	Date				-	
0.8	948 cf	5,895 cf	5,895 cf			Reviewed	Date	_	Reviewed 	Date TBD	_	
0.8			N/A						Davisous	Data		
0.8			2,948 cf	STORMWA	ATER MANAGEMENT	SEDIMENT CONTROL	. TECHNICAL REQUIR	EMENTS	ADMINISTF	RATIVE REQUIREMENTS		
0.8			N/A		ERY COUNTY [ G SERVICES A				NEGATE THE	ROVAL DOES NOT E NEED FOR A ESS PERMIT.		
0.8			3,394 cf					MCDP	S-SC/SWM SH	HEET NO. 1	OF 1	8
		3,805 cf	3,394 cf				_					
ons Mir	lin ESDv	Max ESDv	volume									

Project No. : 32207.003

	Approved 28547		
DEPARTMENT OF	RY COUNTY TRANSPORTATI G, MARYLAND	ON	
RECOMMENDED FOR APPROVAL			
Chief, Transportation Planning and Design Se APPROVED	ection	Date Date	
Chief, Division of Transportation Engineering		Date	SCALE :

Designed by: <u>AMU</u> Drawn by: <u>AMU</u>

TI-01 TITLE SHEET

**BOYDS TRANSIT IMPROVEMENTS** 

JUNE 2022 SHEET \_\_\_\_1 of 27

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SHEET NO.	SC/SWM NO.	DRAWING DESCRIPTION	
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4		EC-02 - DEMO PLAN	
5		GS-01 - GEOMETRIC LAYOUT SHEET	
6	3	HT-01 - TYPICAL SECTIONS	
7	4	HT-02 - TYPICAL SECTIONS	
8	5	PD-01 - PAVEMENT DETAILS	
9	6	HD-01 - ROADWAY PLAN	
10	7	HD-02 - ROADWAY PLAN	
11		HP-01 - ROADWAY PROFILE	
12		CL-01 - CURB LAYOUT	
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19	12	ES-02 - EROSION AND SEDIMENT CONTROL PLAN STAGE 2 - FINAL GRADING	
20	13	DP-01 - DRAINAGE PROFILES	
21	14	DD-01 - FILTERING TREE PIT INLET DETAILS	
22	15	SW-01 - PERVIOUS CONCRETE SUBGRADE GRADING PLAN	
23		SN-2.01 - SIGNING AND MARKING PLAN	
24		LT-01 - LED PHOTOMETRIC PLAN	
25	16	LD-01 - TREE PROTECTION PLAN	
26	17	LD-02 - LANDSCAPE PLAN	
27	18	LD-03 - DETAILS AND NOTES	

## LEGEND

	TELEPHONE MANHOLE		
	WATER METER	OO	EXISTING W-BEAM
		<u> I I</u>	PROPOSED W-BEAM
	WATER VALVE	— wв —	WETLAND BUFFER
	SEWER MANHOLE		WETLAND
	STORM DRAIN MANHOLE	V V	
	GAS VALVE	- x x -	PROPOSED FENCE
	SIGN	- x x -	PROPOSED HANDRAIL
		-xx	EXISTING CHAINLINK FENCE
	LIGHT POLE		INDEX CONTOUR
	UTILITY POLE	300	INTERVAL CONTOUR
	FIRE HYDRANT		
	PARKING METER	— — C — →	TOP OF CUT
		⊢ F — ⊣	TOE OF FILL
1	TREE		EXISTING RIGHT OF WAY LINE
	BORING	LOD	LIMIT OF DISTURBANCE
	INLET		
	MANHOLE	TCE	TEMPORARY CONSTRUCTION EASEMENT
		PE	PERPETUAL EASEMENT

## **ABBREVIATIONS**

LP	Low Point	STA
LT		SO
MAX		S.Y
MOD	. Modified	SWM -
MIN	Minimum	SW
N	North	T
NB	Northbound	Ť
NB NE	Northeast	T.C.P.
NTS	Not To Scale	TYP
O.C		Ü.P
	Point of Curvature	VAR
D C C	Point of Compound Curve	V.C.L.
Г.С.С D/С	Point of Compound Curve Point of Crown	V.C.∟. W
Г/ U D/СГ	Postia Carda Flavatian	VV
P/ GE	Profile Grade Elevation	W WB
	Profile Ground Elevation	MR
	Profile Grade Line	
P/GL	Profile Ground Line	
P/ R	Point of Rotation	
	Point of Intersection	
	Point on Curve	
P.O.T	Point on Tangent.	
P.P.W.P	Polyvinyl Chloride Profile Wall Pipe	
PROP	Proposed	
PT	Point	
P.T	Point of Tangency Point of Vertical Curve	
P.V.C	Point of Vertical Curve	
PVC	Polyvinyl Chloride	
PVI	Polyvinyl Chloride Point of Intersection	
R		
RFT WALL	Retaining Wall	
RT VVALL	Retaining Wall Right	
RW or P W	Right of Way	
D D D	Right of Way Reinforced Cement Pipe	
К.С.Р	Reinforced Cement Pipe	
R.U.U.P	Reinforced Cement Concrete Pipe	
S		
SAM	Superpave Asphalt Mix	
SB	Southbound	
S.D	Storm Drain	
S.E	Storm Drain Superelevation	
St	Silt Fence	
S.F	. Square Feet	
SS	Sanitary Sewer	
SSD	Stopping Sight Distance	
SSD SSF	Stopping Sight Distance Super Silt Fence Standard	

# DRAINAGE STRUCTURE STAKEOUT LOCATION

APPROX...

C.M.P....

C.O..... COMB... CONC...

CONSTR.

C.P.P.-S.

C.P.P...

D.B.H....

D.H.V.\_\_

ELEV.

FWD...

 $INV_{--}$ 

LANDSC.

E.R.C.C.P.....

F or FL....

EX. or EXIST. Existing

B or B/L....

C or C/L....

A.A.S.H.T.O..... American Association of State Highway

..Approximate

Center of Curve

...Baseline

... Centerline

<sub>-</sub>Cleanout

\_\_Concrete

<sub>-</sub>Diameter

<sub>-</sub>East Electric

Each

Feet

<sub>--</sub>Flowline

Forward Gas

- High Point

\_Linear Feet

Height Inch

Invert Length Landscaped

Eastbound.

\_End Section

Concrete Pipe

..Hot Mix Asphalt

Elevation

<sub>-</sub>Combination

\_ Construction

Degree of Curve

..Double Opening

External Distance

...Design Hourly Volume ...Drop Inlet

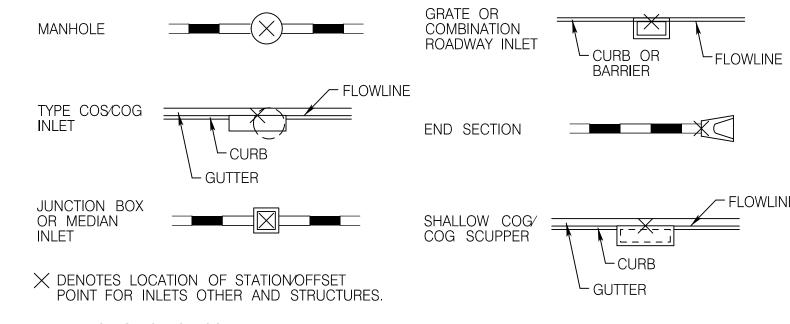
Transportation Officials

Corrugated Polyethylene Pipe
Diameter Breast Height

Elliptical Reinforced Cement Concrete Pipe

Horizontal Elliptical Reinforced

Cast Iron Pipe
Corrugated Metal Pipe
Corrugated Metal Pipe, Smooth Interior



T.C DENOTES TOP OF COVER

T.G DENOTES TOP OF GRATE

# DRAINAGE BUBBLES

(SAIVIPLES)	(SAIVIF LLS)						
INLET	<u> </u>						
MANHOLE	<u>MH</u>						
JUNCTION BOX ·····	JB						
FIELD CONNECTION	<u>C</u>						
BEND	B						
END SECTION	<u>ES</u>						
END WALL	<u>EW</u>						
ADJUST EX. STRUCTURE	A						

MCDPS-SC/SWM SHEET NO. 2 OF 18

Station

Sidewalk

Telephone

-Útility Pole

- Westbound

Tangent

<sub>-</sub>Typical

..Variés

. Water

..West

Single Opening
Square Yards

Terra Cotta Pipe

\_\_Vertical Curve Length

Stormwater Management

				· , - · · · · · · · · · · · · · ·	
	MERY COUNTY DE TING SERVICES AP	· · · · · · · <del></del> · · ·	= :	NOTE: MCDPS APPRINEGATE THE MCDPS ACCES	
STOF	RMWATER MANAGEMENT	SEDIMENT CONTROL	TECHNICAL REQUIREMENTS	ADMINISTRA	ATIVE REQUIREMENTS
<u>ESDS</u>	AND WAIVERS				
		Reviewed	Date		Date  XXXXX
Reviewed	Date	Approved	Date	SEDIMENT (	CONTROL PERMIT NO.
Approved	Date 285472 S.M. FILE NO.			THE DATE OF APPROVAL	S PLAN WILL EXPIRE TWO YEAR FROM IF THE PROJECT HAS NOT STARTED CRMIT HAS BEEN EXTENDED

EMENT PLAN IS FOR DEMONSTRATED COMPLIANCE WITH MINIMUM ENVIRONMENTAL RUNOFF TREATMENT IFT OR CONCENTRATE RUNOFF ONTO ANY ADJACENT PROPERTY WITHOUT THAT PROPERTY OWNER'S HER RESPONSIBLE PERSON OF PROFESSIONAL LIABILITY OR ETHICAL RESPONSIBILITY FOR THE JOWNHILL PROPERTIES

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:\_

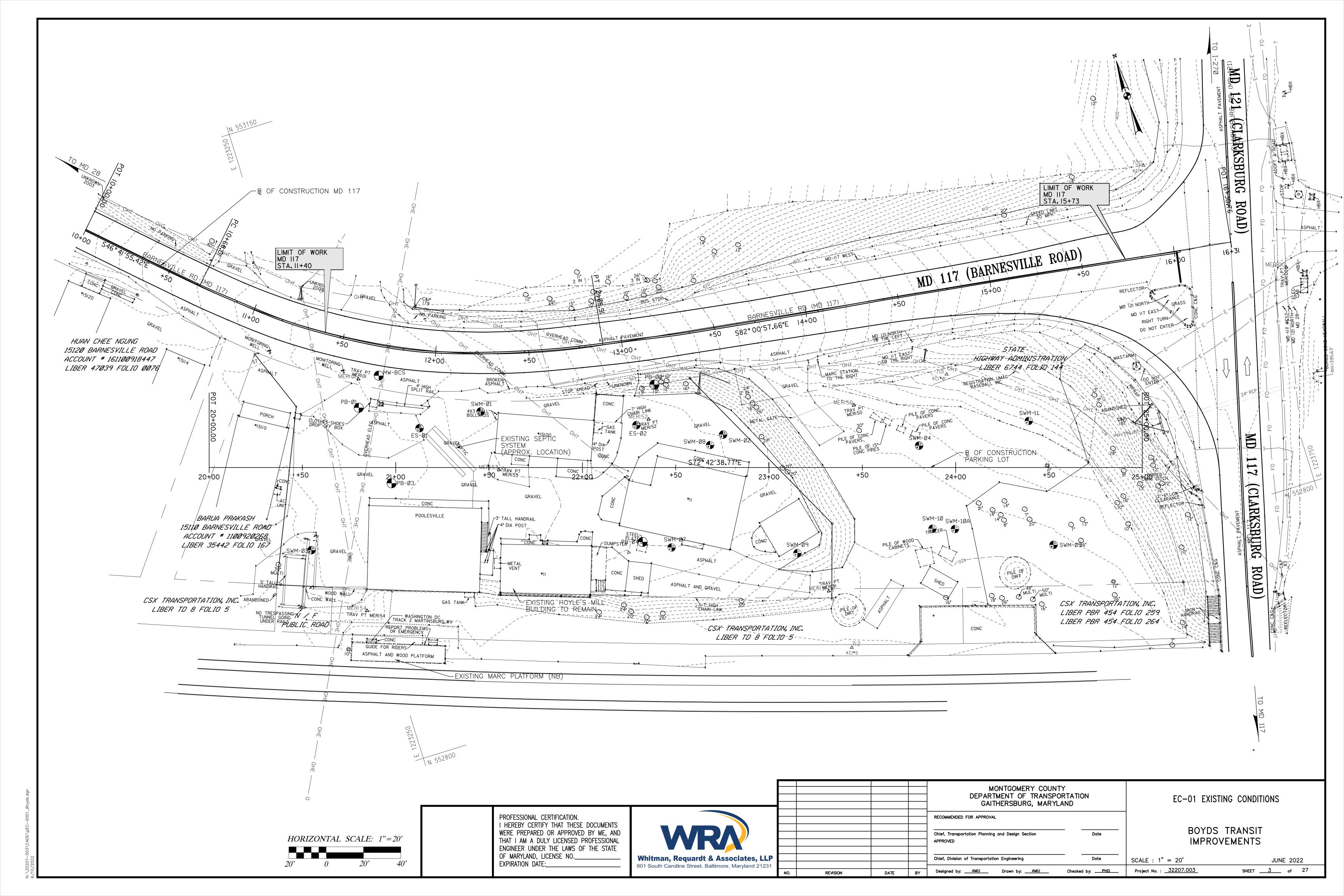


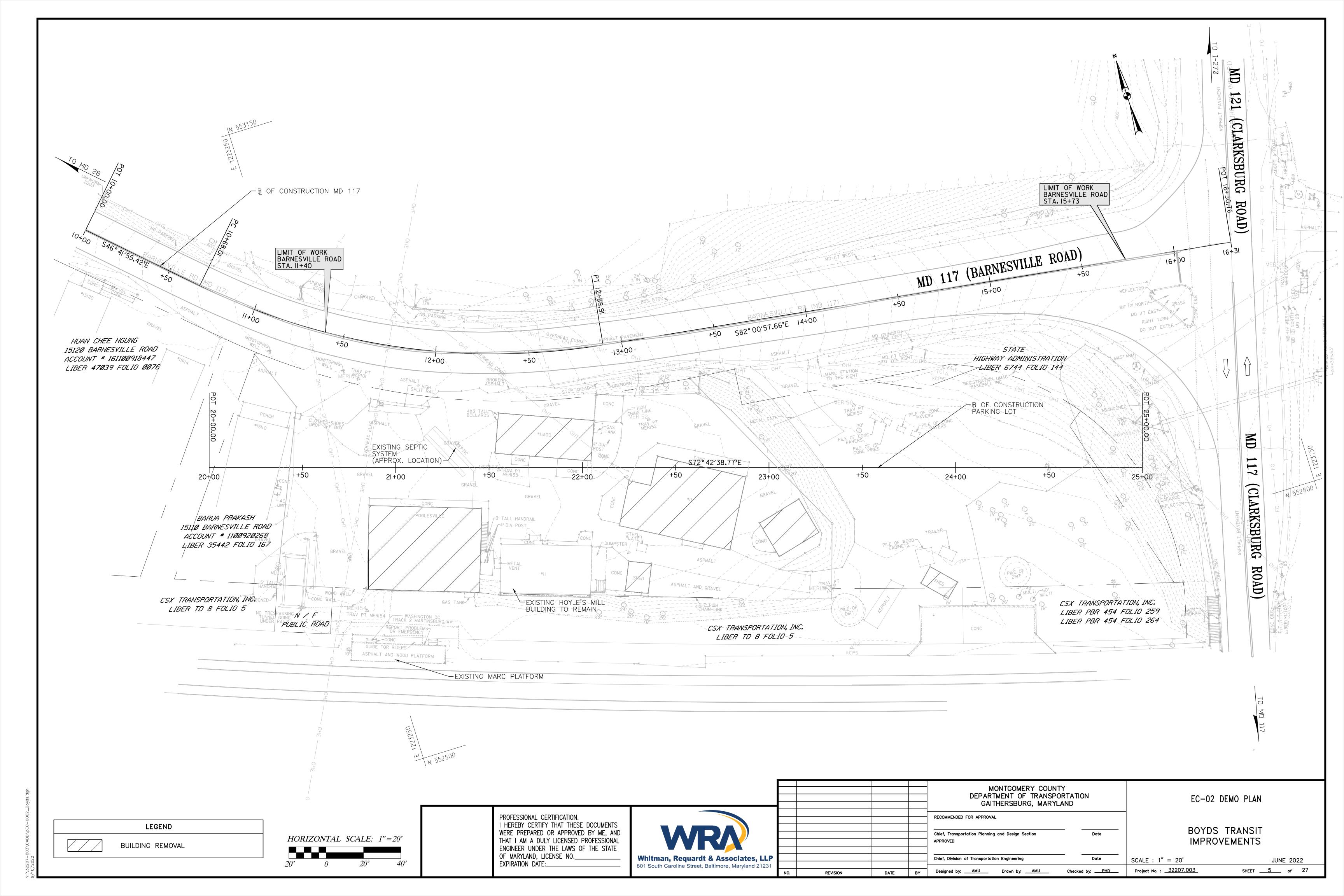
			DPS APPROVAL OF STANDARDS AND DO PERMISSION. IT DOI ADEQUACY OF THE	A SEDIMENT CONTROL OR STORMWAT SE NOT CREATE OR IMPLY ANY RIGH SE NOT RELIEVE THE DESIGN ENGINE DRAINAGE DESIGN AS IT AFFECTS UP	ER MANAGEMENT PLAN IS FOR DEMONSTR IT TO DIVERT OR CONCENTRATE RUNOFF ER OR OTHER RESPONSIBLE PERSON OF HILL OR DOWNHILL PROPERTIES
			MONTGOMERY COUNT DEPARTMENT OF TRANSPO GAITHERSBURG, MARYLA	RTATION	INDEX AN
			RECOMMENDED FOR APPROVAL		
			Chief, Transportation Planning and Design Section  APPROVED	Date	BC IM
			Chief, Division of Transportation Engineering	Date	SCALE : NTS
REVISION	DATE	RY	Designed by: <u>AMU</u> Drawn by: <u>JDG</u>	Checked by: PHD	Project No. : <u>32207.003</u>

INDEX OF SHEETS, LEGEND, AND ABBREVIATIONS

**BOYDS TRANSIT IMPROVEMENTS** 

JUNE 2022 SHEET <u>2</u> of 27





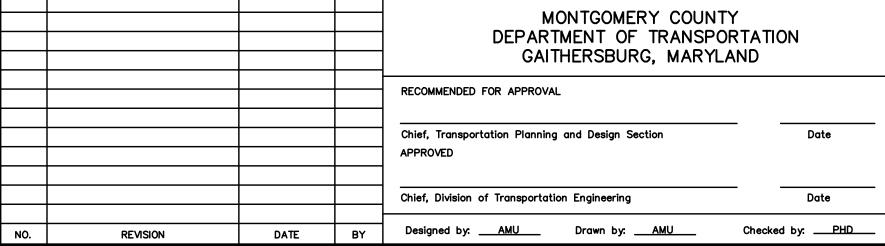


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OF MARYLAND, LICENSE NO.\_\_\_\_\_\_ EXPIRATION DATE:\_\_

20+00





LIMIT OF WORK MD II7 STA.15+73

MD 117-B

- BOF CONSTRUCTION PARKING LOT

14+00 S82°00′57.66°E 15+00

16+00 16+31

JUNE 2022

SHEET <u>3</u> of 27

**IMPROVEMENTS** 

**BOYDS TRANSIT** 

GS-01 GEOMETRIC LAYOUT SHEET

SCALE : 1" = 50'

Project No. : <u>32207.003</u>

1. HORIZONTAL DATUM: NAD 83(1991) VERTICAL DATUM: NAV 88.

ELEVATION EAST NORTH MER100 552,913.78 1,223,769.59 401.84 MER101 553,004.33 1,223,277.12 429.05 MER150 552,912.07 1,223,526.45 418.17 MER151 552,820.98 1,223,484.05 422.28 MER152 552,937.51 1,223,419.19 431.62 MER153 552,935.49 1,223,334.61 429.90 MER154 552,884.43 1,223,244.72 423.98 KCI#1/700 552,988.68 1,223,712.71 404.68 KCI#5/712 552,788.42 1,223,486.78 421.22

POT STA. 20+00.00 552,982.8390 1,223,186.6813
POT STA. 25+00.00 552,834.2413 1,223,664.0896

SURVEY CONTROL

KCI#6/701 552,913.13 1,223,578.80 413.62

TRAVERSE

	CONSTRUCTION CONTROL COORDINATES						
POINT	CURVE	DESCRIPTION	NORTH	EAST			
	₽ CONSTRUCTION MD 117 (BARNESVILLE ROAD)						
1	-	POT STA. 10+00.00	553,123.9829	1,223,161.3159			
2	MD 117-1	PC STA. 10+68.01	553,077.3405	1,223,210.8094			
3	MD 117-1	PI STA. 11+82.61	552,998.7409	1,223,294.2136			
4	MD 117-1	PT STA. 12+89.91	552,982.8228	1,223,407.7071			
5		POT STA. 16+30.76	552,935.4801	1,223,745.2524			
	B	CONSTRUCTION PARK	ING LOT				

	LEGEND
X-A	HORTIZONTAL LINE ID NUMBER
X-1	HORTIZONTAL CURVE ID NUMBER

-₽ OF CONSTRUCTION MD 117

MD 117-1

13+00

22+00

S72° 42′38<sub>•</sub>77"E

23+00

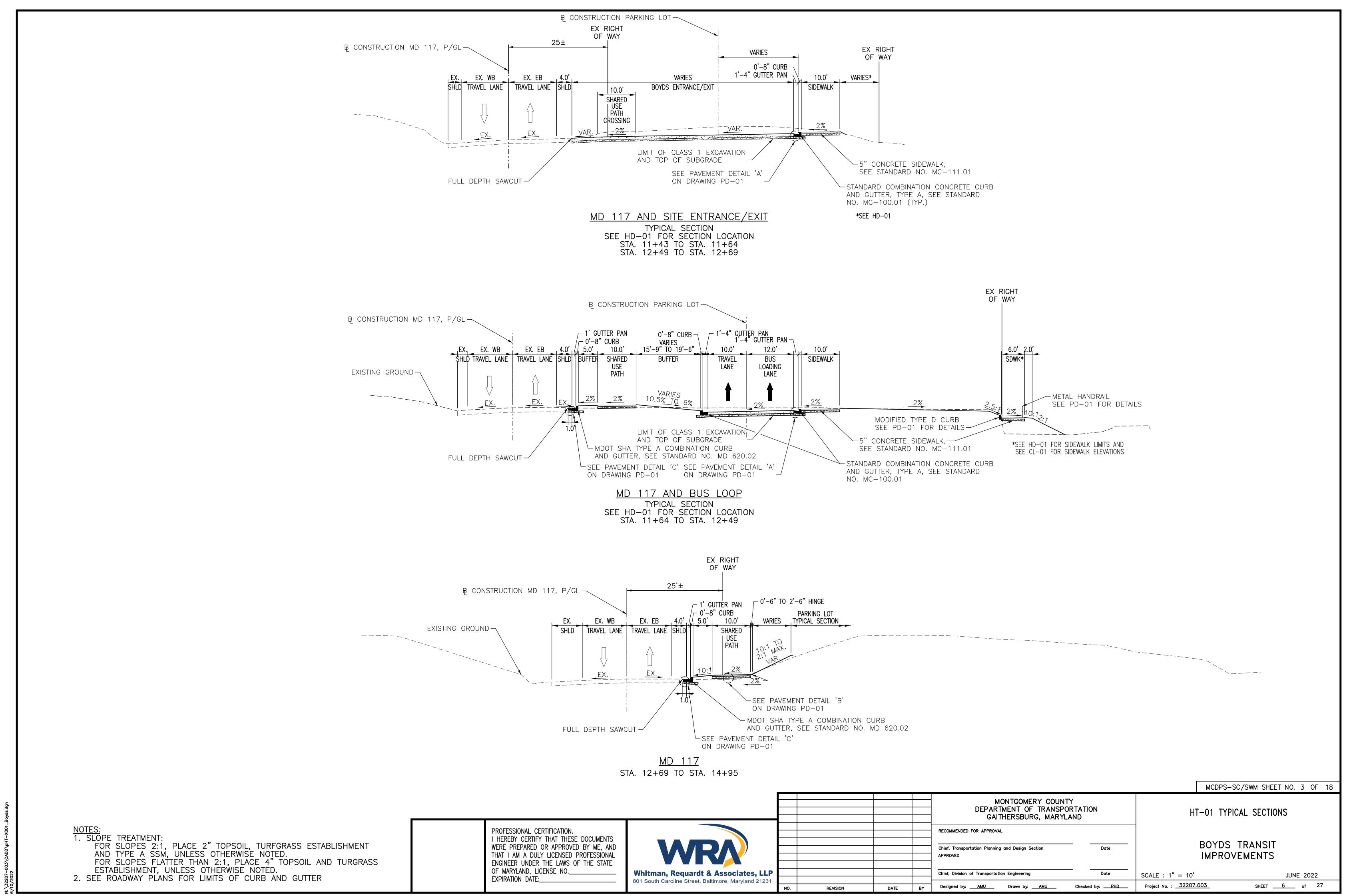
MERI5I▲

LIMIT OF WORK MD 117 STA.11+40

21+00

CURVE DATA									
CURVE	DELTA		DELTA Dc		R L T		E PI NORTH		PI EAST
MD 117-1	35°19′ 02.24″	LT	15°54' 55.78"	360.00'	221.91'	114.60'	17.80'	552,998.74	1,223,294.2

	LINE DATA	
LINE	LENGTH	BEARING
MD 117-A	68.01'	S 46° 41' 55.42" E
MD 117-B	340.85'	S 82° 00' 57.66" E
PARKING LOT-A	500.00'	S 72° 42' 38.77" E



.



NOTES: 1. SLOPE TREATMENT:
FOR SLOPES 2:1, PLACE 2" TOPSOIL, TURFGRASS ESTABLISHMENT
AND TYPE A SSM, UNLESS OTHERWISE NOTED.
FOR SLOPES FLATTER THAN 2:1, PLACE 4" TOPSOIL AND TURGRASS
ESTABLISHMENT, UNLESS OTHERWISE NOTED.
2. SEE ROADWAY PLANS FOR LIMITS OF CURB AND GUTTER



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section Chief, Division of Transportation Engineering Designed by: <u>AMU</u> Drawn by: <u>AMU</u> Checked by: PHD

EX RIGHT OF WAY

EXISTING GROUND

SEE PAVEMENT DETAIL 'D' ON DRAWING PD-01

VARIES 7'-12'±

0'-8" CURB — 1'-4" GUTTER PAN —

PARKING LANE

LIMIT OF CLASS 1 EXCAVATION

AND TOP OF SUBGRADE. SEE DRAWING

SW-01 FOR SUBGRADE GRADING PLAN.

CONSTRUCTION PARKING LOT

LANDSCAPED ISLAND

LIMIT OF CLASS 1 EXCAVATION

AND TOP OF SUBGRADE. SEE DRAWING SW-01 FOR SUBGRADE GRADING PLAN.

PARKING LOT

TYPICAL SECTION

\_ 0'-8" CURB

SEE PAVEMENT DETAIL 'D' ON DRAWING PD-01

┌ 1'-4" GUTTER PAN

HT-02 TYPICAL SECTIONS

MCDPS-SC/SWM SHEET NO. 4 OF 18

**BOYDS TRANSIT IMPROVEMENTS** 

JUNE 2022 SCALE: 1" = 10"Project No. : 32207.003 SHEET <u>7</u> of 27

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:\_\_\_

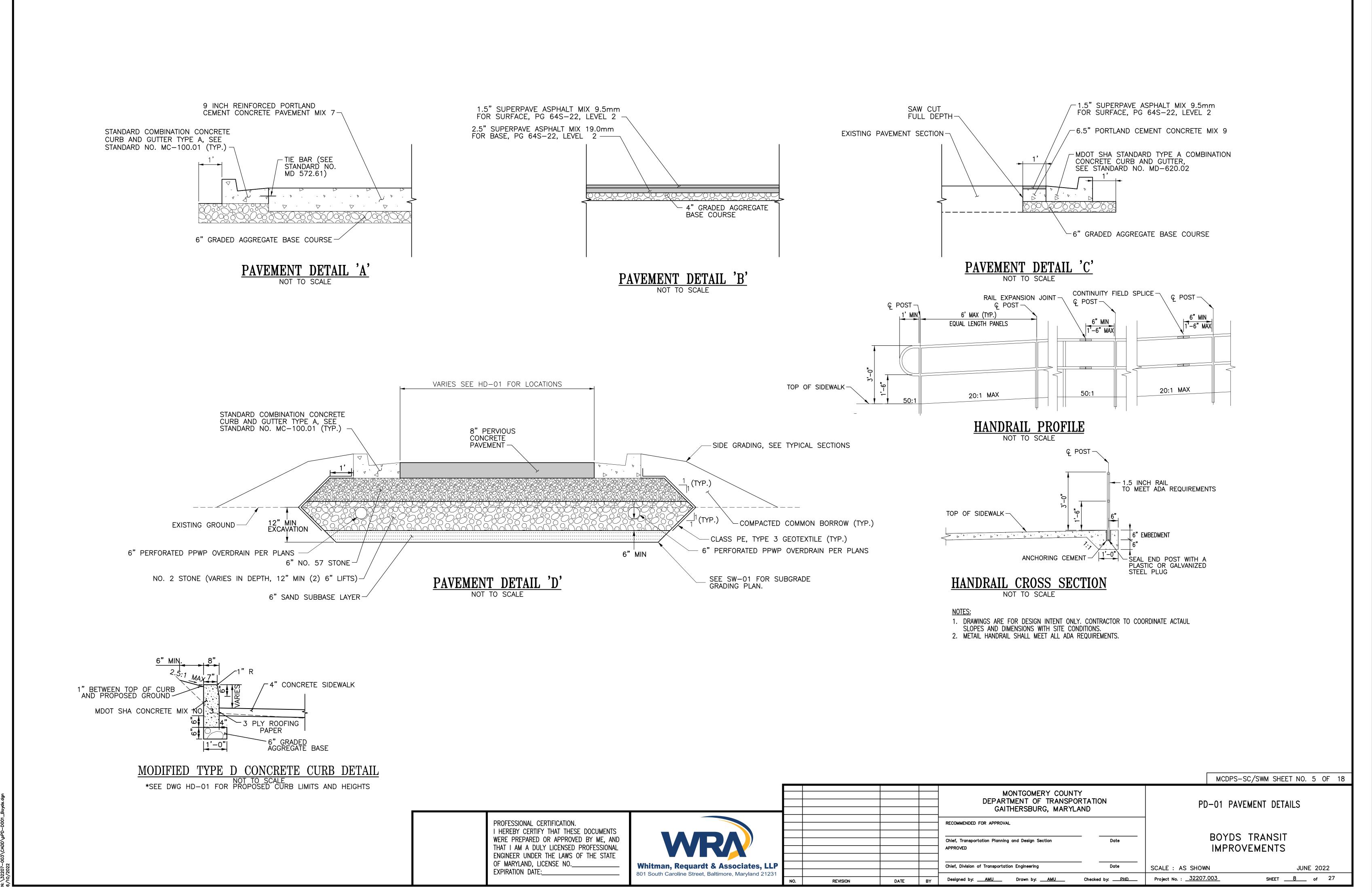
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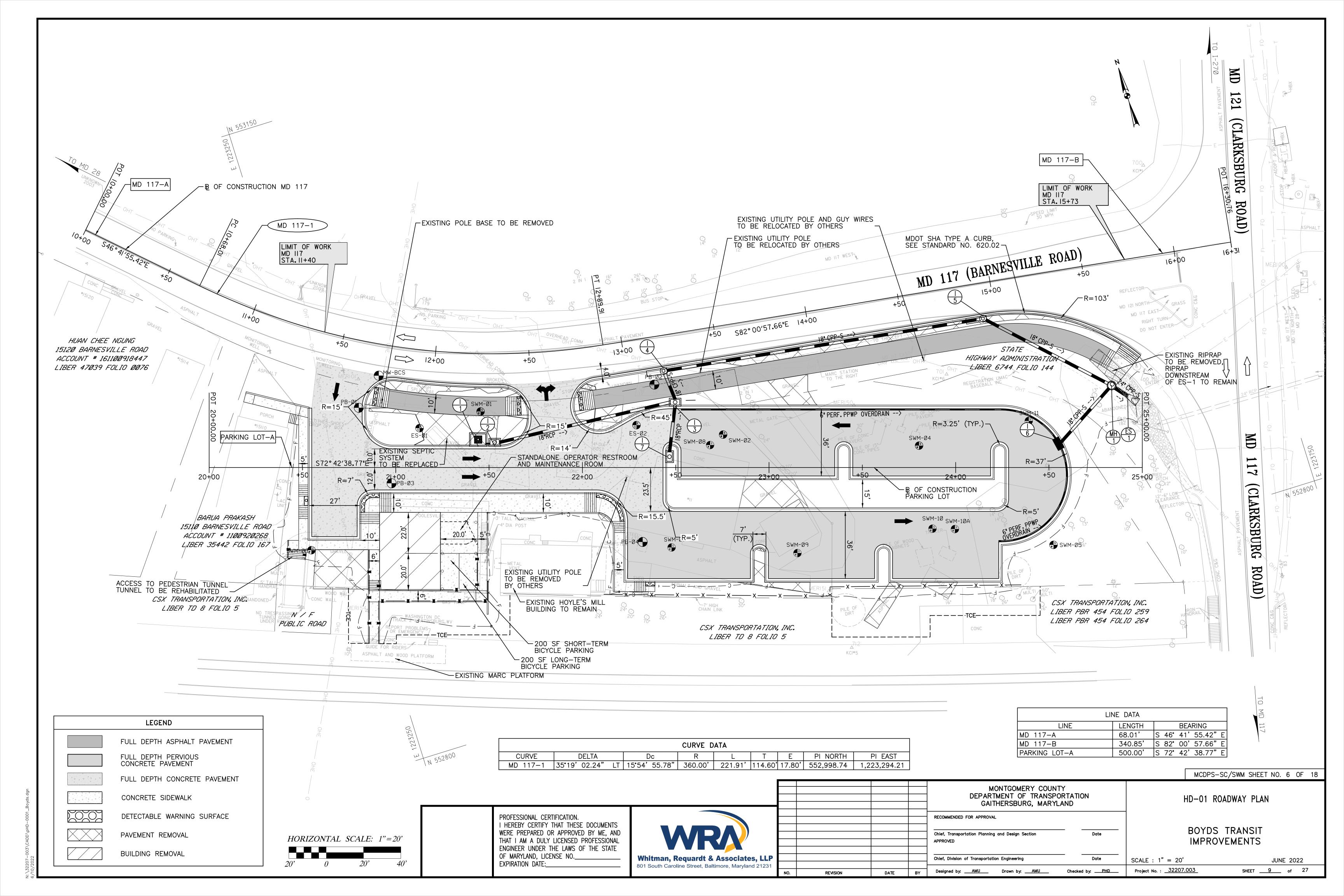
0'-6" TO 2'-0" HINGE — MD 117 TYPICAL SECTION

VARIES MD 117

STANDARD COMBINATION CONCRETE CURB

AND GUTTER, TYPE A, SEE STANDARD NO. MC-100.01 (TYP.)





MODIFIED TYPE D CONCRETE CURB							
STATION AND OFFSET	LENGTH	REMARKS					
21+66, 24' RT TO 22+17, 67' RT	88'	2' HEIGHT					
20+91, 61' RT TO 21+09, 66' RT	37'	1' HEIGHT					
21+09, 66 RT TO 21+24, 66' RT		1'-1'-6" HEIGHT					
11+10, 43' RT TO 11+41, 41' RT	35'	0-6"-1' HEIGHT					

MDOT SHA TYPE A COMBINATION CURB AND GUTTER (MD-620.02)					
STATION AND OFFSET	LENGTH	REMARKS			
11+69, 23' RT TO 12+46, 23' RT	84' BA	RNESVILLE RD			
12+72, 23' RT TO 15+73, 53' RT	315' BA	RNESVILLE RD			

	MDOT SHA 6 FT CHAIN LINK F	FENCE (MD	-690.01)
	STATION AND OFFSET	LENGTH	REMARKS
	22+12, 68' RT TO 24+35, 63' RT	228'	PARKING LOT
•		-	

4 INCH SIDEWALK (MC-110.01)								
STATION AND OFFSET AREA REMARKS								
20+19, 35' LT TO 22+39, 67' RT	4345 SF	SIDEWALK FROM COUNTRY STORE TO PARKING LOT						
11+68, 33' RT TO 11+79, 23' RT	123 SF	SHARED USE PATH RAMP						
12+37, 23' RT TO 12+48, 33' RT	124 SF	SHARED USE PATH RAMP						
12+70, 31' RT TO 12+81, 23' RT	121 SF	SHARED USE PATH RAMP						
15+52, 54' RT TO 15+72, 53' RT	195 SF	SHARED USE PATH RAMP						

MCDOT TYPE A COMBINATION CURB AND GUTTER (MC-100.01)						
STATION AND OFFSET LENGTH REMARKS						
20+55, 32' LT TO 21+96, 41' LT	947'	BOYDS COUNTRY STORE TO BUS EXIT				
22+43, LT&RT TO 24+28, LT&RT	500'	PARKING LOT				
13+08, 87' RT TO 14+95, 91' RT	142'	PARK AND RIDE BUS LOOP				

	STORM DRAIN STRUCTURE SCHEDULE							
STRUCTURE NO.	STATION	OFFSET	TYPE	BASELINE REMARKS				
I-1	21+44	11.3' LT.	8'x6' FILTERING TREE PIT INLET	PARKING LOT-A	DRAWING DD-01			
1–2	21+53	11.3' LT.	TYPE "A" INLET, 5' OPENING	PARKING LOT-A	PER MC 501.01			
1–3	22+50	32.8'LT.	TYPE "A" INLET, 5' OPENING	PARKING LOT-A	PER MC 501.01			
I-4	13+20	17.5' RT.	PRECAST CIRCULAR COG, 10'	BARNESVILLE-1	PER MD 374.62			
I <b>-</b> 5	14+93	17.6' RT.	PRECAST CIRCULAR COG, 10'	BARNESVILLE-1	PER MD 374.62			
I-6	24+57	13.7'LT.	"S-CV" CURVED VANE GRATE, DOUBLE	PARKING LOT-A	PER MD 374.70			
1–7	22+45	5.8' LT.	TYPE "A" INLET, 5' OPENING	PARKING LOT-A	PER MC 501.01			
MH-1	15+55	65.5' RT.	48" DIA. PRECAST MANHOLE	BARNESVILLE-1	PER MD 384.01			
*ES-1	15+63	72.4'RT.	CPP END SECTION, 24" CPP-S	BARNESVILLE-1	PER MANUFACTURER'S RECOMMENDATIONS			

*	REMOVE	AND	RESET	EXIS	STING	RIPRA	P AT	END	SECTION	

METAL HANDRAIL								
STATION AND OFFSET	LENGTH	REMARKS						
20+42, 48' RT TO 20+43, 39' RT	9.5	TUNNEL						
20+51, 49' RT TO 20+51, 44' RT	5'	TUNNEL						
20+86, 44' RT TO 20+86, 94' RT	50'	STAIRS						
20+91, 61' RT TO 20+91, 66' RT	5'	STAIRS						
20+91' 94' RT TO 21+48, 61' RT	92'	RAMP						
21+24, 66' RT TO 21+44, 46' RT	40'	BIKE STORAGE						

STORM DRAIN PIPE SCHEDULE							
FROM	ТО	SIZE	TYPE	CLASS	LENGTH		
I—1	1-2	6"	CPP-S	ST	2'		
I-2	1-3	18"	RCP	IV	94'		
1–3	I <b>-</b> 4	18"	CPP-S	ST	15'		
1-4	I <b>-</b> 5	18"	CPP-S	ST	170'		
I-5	MH-1	18"	CPP-S	ST	74'		
I-6	MH-1	18"	CPP-S	ST	38'		
I <b>-</b> 7	I <b>-</b> 3	18"	RCP	IV	25'		
MH-1	ES-1	24"	CPP-S	ST	8'		



			MONTGOMERY COUNTY DEPARTMENT OF TRANSPOR GAITHERSBURG, MARYLA	RTATION	
			RECOMMENDED FOR APPROVAL		
			Chief, Transportation Planning and Design Section  APPROVED	Date	
			Chief, Division of Transportation Engineering	Date	SCALE :
REVISION	DATE	BY	Designed by: <u>AMU</u> Drawn by: <u>AMU</u>	Checked by: PHD	Project No.

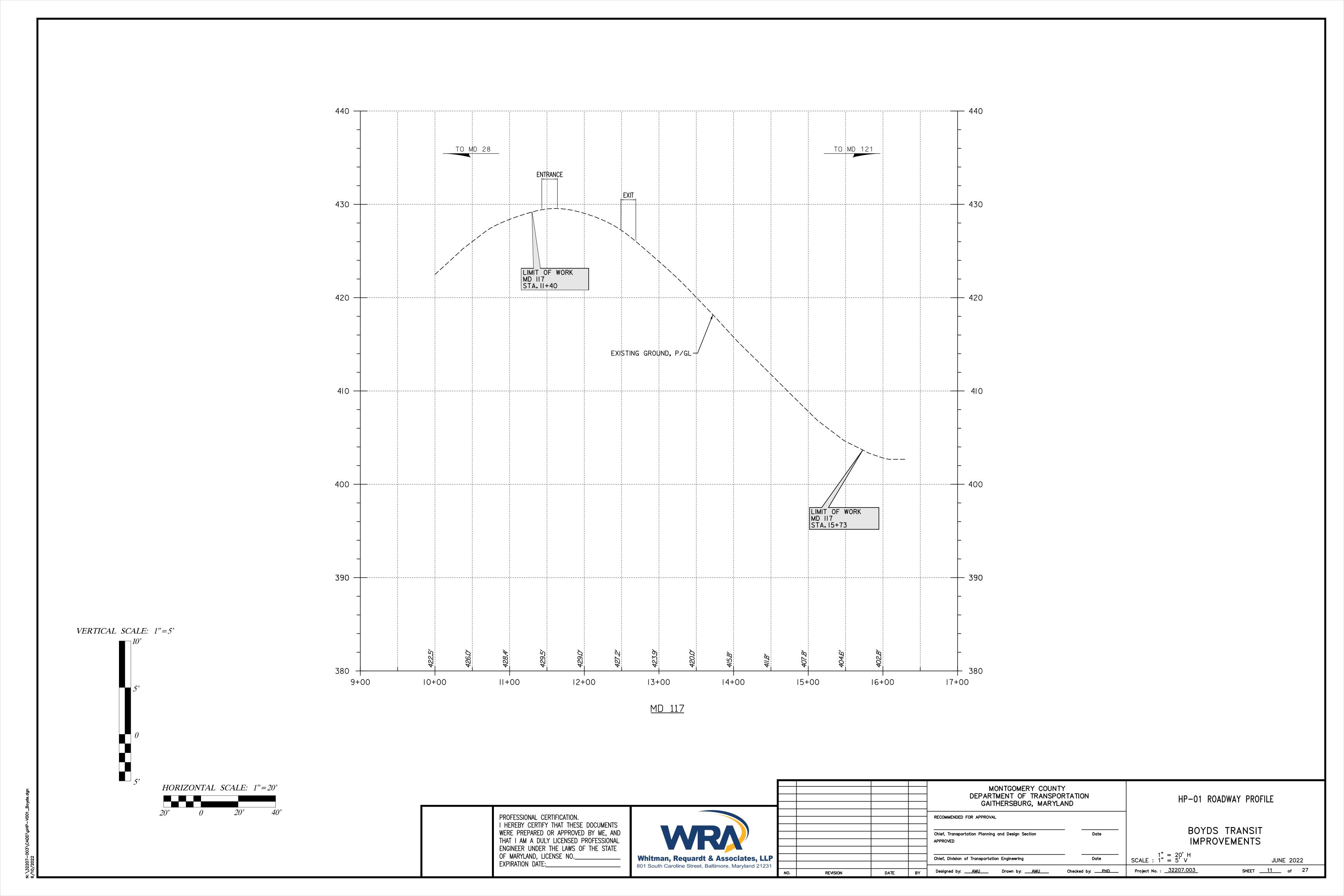
HD-02 ROADWAY PLAN

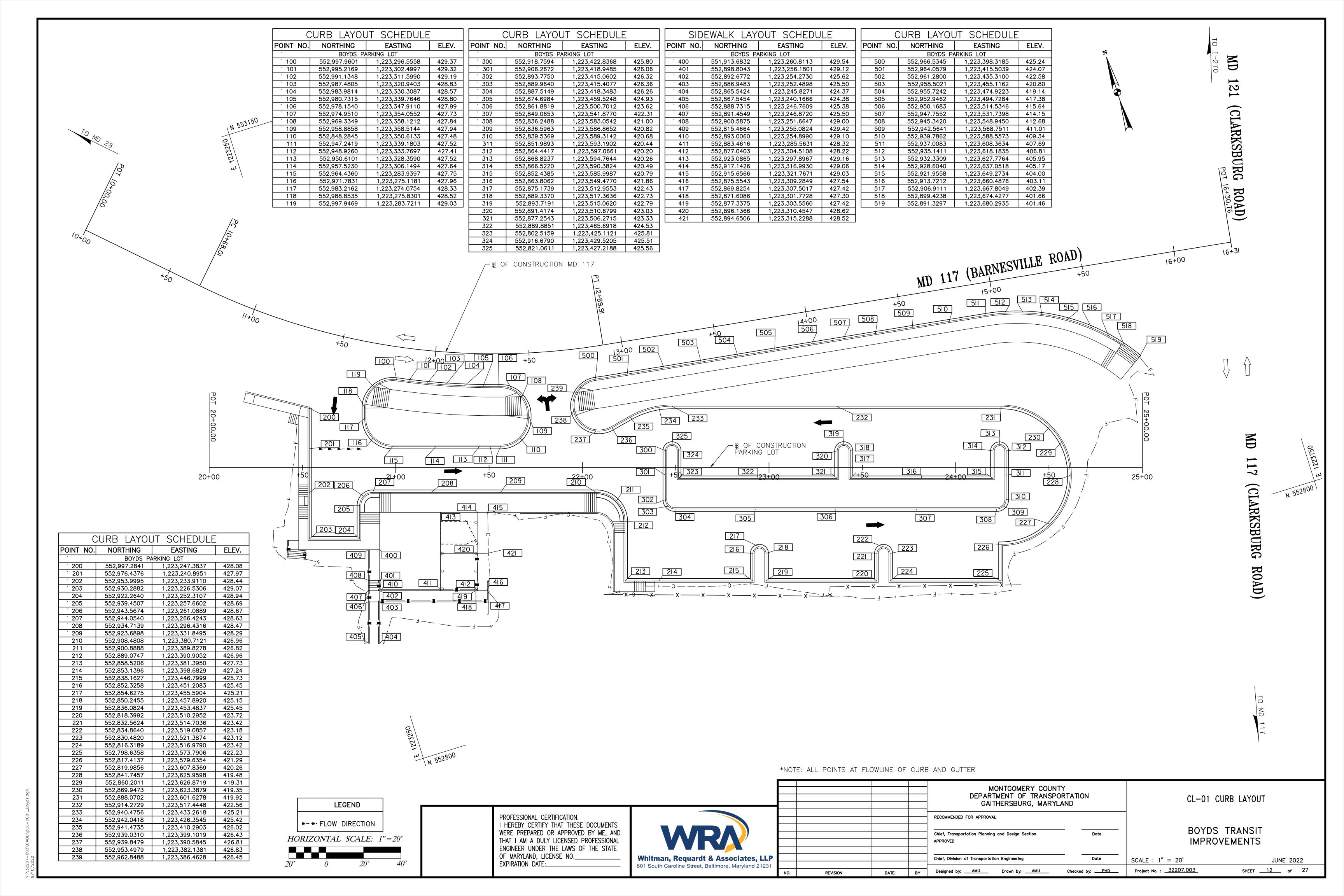
MCDPS-SC/SWM SHEET NO. 7 OF 18

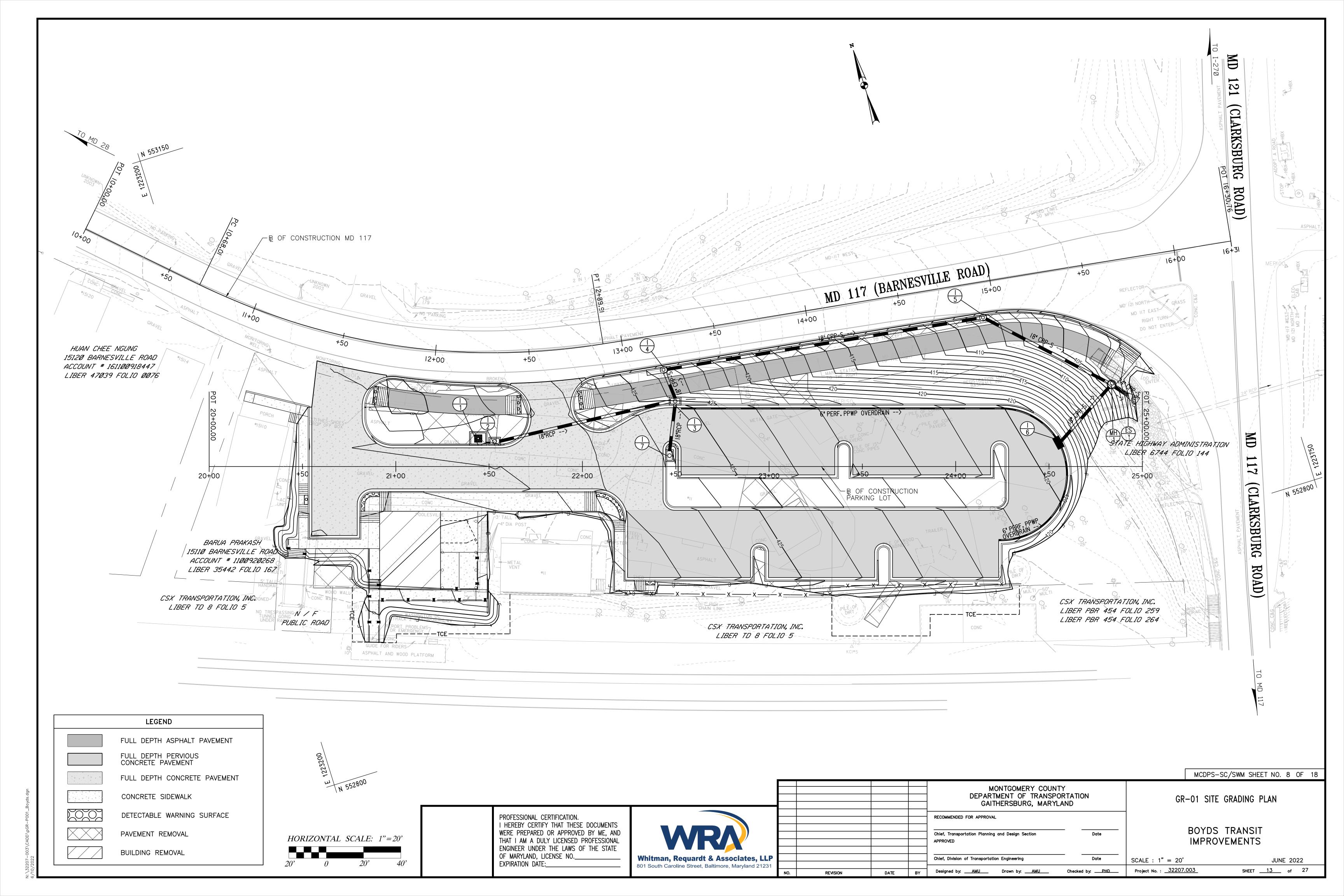
BOYDS TRANSIT

**IMPROVEMENTS** 

JUNE 2022 t No. : <u>32207.003</u> SHEET 10 of 27







#### TRAFFIC CONTROL GENERAL NOTES

TEMPORARY TRAFFIC CONTROL REQUIREMENTS

- I. THE PERMITTEE SHALL REFER TO THE ATTACHED TEMPORARY TRAFFIC CONTROL PLAN (TTCP) DRAWINGS TO SELECT THE APPROPRIATE WORK ZONE TEMPORARY TRAFFIC CONTROLS FOR EACH PHASE OF CONSTRUCTION, WORK ZONE SITUATIONS WHICH ARE NOT ADDRESSED IN THE ATTACHED TTCP SHALL CONFORM TO THE GUIDELINES SET FORTH IN THE MARYLAND MANUAL ON TRAFFIC CONTROL DEVICES, MOST RECENT EDITION, AND MARYLAND BOOK OF STANDARDS FOR HIGHWAYS. INCIDENTAL STRUCTURES. & TRAFFIC CONTROL APPLICATIONS.
- 2. ANY WORK WITHIN THE TRAVELED PORTION OF ROADWAYS SHALL BE RESTRICTED TO THE HOURS OF 9:00 AM TO 3:00 PM, MONDAY THROUGH FRIDAY, WORK ON HOLIDAYS AND WEEKENDS SHALL NOT OCCUR UNLESS AN EXCEPTION IS GRANTED IN WRITING BY THE COUNTY'S DOT INSPECTOR. REFER TO SP 104-01 FOR DETAILS ON LANE CLOSURE TIMINGS.
- 3. CONSTRUCTION ACTIVITY, LOADING OR UNLOADING OF EQUIPMENT SHALL NOT BLOCK ANY TRAFFIC LANE OTHER THAN THOSE DELINEATED WITHIN THE WORK ZONE.
- 4. EXCLUSIVE OF EMERGENCY WORK, THE PERMITTEE SHALL CONTACT OCCUPANTS OF ALL ADJOINING PROPERTIES AND INFORM THEM OF THE SCOPE AND THE TIMING OF CONSTRUCTION, A MINIMUM OF 48 HOURS NOTIFICATION SHALL BE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY ACTIVITY ON THE SITE.
- 5. ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS UNLESS PERMISSION FOR CLOSURE IS GRANTED BY THE PROPERTY OWNER/MANAGER. HOWEVER, ACCESSIBILITY FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
- 6. IF ANY TRAFFIC CONTROL SIGNS ARE TO BE PLACED ALONG A MDOT SHA ROADWAY OR WITHIN THE LIMITS OF AN INCORPORATED AREA. THE PERMITTEE SHALL NOTIFY THE APPROPRIATE AGENCY OF SIGNAGE TO BE INSTALLED.
- 7. NO HAZARDOUS MATERIALS SHALL BE STORED WITHIN PUBLIC RIGHT-OF-WAY. NO MATERIALS OR EQUIPMENT SHALL BE STORED ON THE ROADWAY SURFACE OR SIDEWALK DURING NON-WORK PERIODS.
- 8. ALL EXISTING TRAFFIC CONTROL DEVICES (I.E. SIGNS, MARKING, ETC.) THAT MUST BE REMOVED SHALL BE REPLACED IN THEIR PROPER LOCATION PRIOR TO THE COMPLETION OF THE PROJECT. COST FOR THE REPLACEMENT AND/OR REPAIR OF DEVICES DAMAGED AS A RESULT OF THE PROJECT SHALL BE ASSESSED TO THE PERMITTEE.
- 9. FOR MERGING, SHIFTING, SHOULDER TAPERS. THE MAXIMUM SPACING BETWEEN DEVICES EQUALS THE POSTED SPEED IN FEET.
- 10. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MUTCD, ALL SIGNS. TRAFFIC DRUMS AND CONES SHALL BE FULLY REFLECTORIZED WITH HIGH INTENSITY, REFLECTIVE SHEETING AS PER THE MUTCD,
- II. PROVISION SHALL BE MADE FOR SAFE MAINTENANCE OF PEDESTRIAN AND BICYCLE TRAFFIC, SUBJECT TO APPROVAL OF THE COUNTY'S DOT INSPECTOR, AT LEAST ONE 10-FOOT TRAVEL LANE SHALL BE AVAILABLE FOR TRAFFIC AT ALL TIMES.
- 12. ALL WARNING SIGNS, UNLESS OTHERWISE SPECIFIED, SHALL BE A MINIMUM OF 48" X 48", BLACK SYMBOL OR LEGEND ON ORANGE BACKGROUND AND DIAMOND SHAPED. ALL TEMPORARY TRAFFIC SIGNS SHALL BE PLACED ON PORTABLE SUPPORTS ("WINDMASTERS") AND SHALL BE REMOVED DURING NON-APPLICABLE PERIODS, ALL PORTABLE SIGNS SHALL MOUNTED A MINIMUM OF ONE (I) FOOT ABOVE THE LEVEL OF THE ROADWAY. WITH HIGHER MOUNTING HEIGHTS DESIRABLE,
- 13. WHEN PAVEMENT MARKINGS HAVE BEEN OBLITERATED BY THE WORK ACTIVITY. THE PERMITTEE SHALL INSTALL ANY CRITICAL INTERIM PAVEMENT MARKINGS PRIOR TO THE END OF THE WORKDAY AS SPECIFIED BY THE COUNTY'S DOT INSPECTOR AND/OR THE TRAFFIC ENGINEERING AND OPERATIONS SECTION, ON ROAD SECTIONS THAT ARE NOT SCHEDULED TO BE OVERLAID. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE (REMOVABLE) DETOUR GRADE MARKING TAPE.ANY CONFLICTING MARKINGS, WHICH NEED TO BE TEMPORARILY REMOVED, ARE TO BE MASKED USING "3M REMOVABLE BLACK LANE MASK" OR AN APPROVED EQUAL. ON ROAD SECTIONS THAT ARE TO BE OVERLAID, TEMPORARY MARKINGS CAN BE EITHER TAPE OR PAINT, ANY CONFLICTING MARKINGS SHOULD BE REMOVED WITH A PAVEMENT GRINDER.
- 14. CONTRACTOR SHALL INSTALL APPROPRIATE TEMPORARY TRAFFIC CONTROL DEVICES (I.E. CHAIN LINK FENCE/PLASTIC DRUMS) TO PROTECT MOTORISTS AND/OR PEDESTRIANS FROM HAZARDS WITHIN THE WORK AREA DURING NON-WORKING HOURS.
- 15. ALL TCP PLAN SHEETS SHOW SIGNING AND ROADWAY CONDITIONS DURING NON-WORK HOURS. THE CONTRACTOR SHALL FOLLOW STANDARDS AS LISTED UNDER SEQUENCE OF CONSTRUCTION DURING WORK HOURS.
- 16. DURING FLAGGING OPERATIONS, THE TRAVEL LANE NEXT TO THE WORK AREA SHALL BE SEPERATED BY DRUMS AND SPACED AS PER THE MARYLAND BOOK OF STANDARDS FOR THE ENTIRE DURATION OF THE PROJECT.
- 17. THE CONTRACTOR SHALL COVER THE WORK AREA SEGMENT WITH STEEL PLATES AND PLACE APPROPRIATE ADVANCE WARNING SIGNS FOR STEEL PLATES BEFORE OPENING ALL TRAVEL LANES TO TRAFFIC AT THE END OF WORK DAY FOR ENTIRE DURATION OF THE PROJECT.
- 18. ALL TRAFFIC CONTROL DEVICES AND STANDARDS SHALL CONFORM TO THE 30 MPH POSTED SPEED LIMIT AND 35 MPH DESIGN SPEED WITHIN THE ENTIRE PROJECT LIMITS.

## FLAGGING OPERATIONS

- I. WHEN POSSIBLE. TWO-WAY TRAFFIC SHALL BE MAINTAINED. OTHERWISE. FLAGGERS SHALL BE USED TO CONTROL TRAFFIC.
- 2. FLAGGERS SHALL BE MARYLAND STATE HIGHWAY ADMINISTRATION OR AATSA APPROVED FLAGGERS AND SHALL BE USED AT THE DIRECTION OF THE COUNTY INSPECTOR, FLAGGERS SHALL USE STOP/SLOW PADDLES TO DIRECT TRAFFIC.
- 3. RADIO COMMUNICATION SHALL BE REQUIRED BETWEEN FLAGGERS AT THE DISCRETION OF THE COUNTY INSPECTOR OR UNDER THE FOLLOWING CONDITIONS:
- \* IF THE FLAGGERS CANNOT SEE EACH OTHER \* IF THE LANE CLOSURE EXCEEDS 200 FEET

## PAVEMENT DROP-OFF

- I. ANY EXCAVATION(S) IN THE ROADWAY SHALL BE PAVED TO LEVEL GRADE OR PLATED AND THE ROADWAY REOPENED TO ITS FULL CROSS-SECTION PRIOR TO THE END OF EACH WORKDAY. "STEEL PLATES AHEAD" (W21-9) SIGNS SHALL BE PLACED APPROXIMATELY 250 FEET IN ADVANCE OF ANY STEEL PLATE, ANY EXCAVATIONS IN THE SIDEWALK SHALL BE BACKFILLED OR PLATED PRIOR TO THE END OF EACH WORKDAY AND SIDEWALK REOPENED TO ITS FULL CROSS SECTION.
- 2. TRAFFIC SHALL NOT BE PERMITTED WITHIN TEN (IO) FEET OF ANY EXCAVATION THAT RESULTS IN A VERTICAL DROP-OFF OF MORE THAN FIVE (5) INCHES IN THE LEVEL OF PAVEMENT DURING NON-WORKING HOURS UNLESS PROTECTED BY TEMPORARY CONCRETE BARRIERS OR RAMPED WITH AGGREGATE MATERIAL AT A 3:1 OR FLATTER SLOPE FROM THE EDGE OF PAVEMENT. WHEN RAMPING IS UTILIZED, TTC DRUMS SHALL BE POSITIONED ADJACENT TO THE EDGE OF THE WORK AREA ON THE TRAFFIC SIDE OF THE SLOPE.
- 3. TRAFFIC SHALL NOT BE PERMITTED WITHIN TWO (2) FEET OF ANY EXCAVATION THAT RESULTS IN A VERTICAL DROP-OFF OF MORE THAN TWO (2) INCHES BUT NO MORE THAN FIVE (5) INCHES IN THE LEVEL OF PAVEMENT DURING NON-WORKING HOURS UNLESS EITHER RAMPED WITH AGGREGATE MATERIAL AT A 4:1 OR FLATTER SLOPE, PROVIDED WITH AN ABUTTING WEDGE OF BITUMINOUS MATERIAL AT A 3:1 OR FLATTER SLOPE OR PROTECTED BY TRAFFIC DRUMS.

#### TRAFFIC CONTROL GENERAL NOTES (CONT.)

#### INSPECTOR AUTHORITY

- I. THE COUNTY'S DEPARTMENT OF TRANSPORTATION (DOT) INSPECTOR HAS THE AUTHORITY TO MODIFY THE TTCP AS DEEMED NECESSARY. THE INSPECTOR HAS THE AUTHORITY TO ORDER THE PERMITTEE TO STOP WORK AND VACATE THE PUBLIC RIGHT-OF-WAY IF THE TTCP IS NOT COMPLIED WITH,
- 2. THE IMPLEMENTATION DATE AND CONTINUANCE OF WORK ACTIVITIES MAY BE ALTERED AT THE DISCRETION OF THE COUNTY'S DOT INSPECTOR IN THE EVENT OF CONFLICTS WITH PREVIOUSLY APPROVED OR EMERGENCY ACTIVITIES.

#### MISCELLANEOUS

CONTACT INFORMATION

- I. THE PERMITTEE WILL BE SOLELY RESPONSIBLE FOR ALL ACCIDENTS AND/OR DAMAGE TO PERSONS AND/OR PROPERTY DAMAGE RESULTING FROM HIS OPERATIONS.
- 2. HAZARDOUS MATERIAL SHALL NOT BE STORED WITHIN PUBLIC RIGHT-OF-WAY. NO MATERIALS OR EQUIPMENT SHALL BE STORED ON THE ROADWAY SURFACE OR SIDEWALK DURING NON-WORKING PERIODS. ALL STORED MATERIALS AND EQUIPMENT SHALL BE SET BACK AT LEAST SIX (6) FEET BEHIND THE CURB ALONG A CLOSED SECTION ROADWAY AND AT LEAST TWELVE (12) FEET FROM THE EDGE OF OPEN SECTION ROADWAY.
- 3. ALL TTC DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TTC DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
- 4. AT THE COMPLETION OF WORK ACTIVITIES, CONDITIONS WITHIN THE PUBLIC SPACE SHALL BE FULLY RESTORED TO THOSE THAT EXISTED PRIOR TO THE WORK ACTIVITY.
- I. CONTACT THE MCDOT TRANSPORTATION MANAGEMENT CENTER 240-777-2100 BETWEEN 5:00 AM AND 11:00 PM TO INFORM THEM OF TEMPORARY LANE CLOSURES IN THE VICINITY OF ANY TRAFFIC SIGNALS.
- 2. THE PERMITTEE SHALL CONTACT THE TRANSPORTATION SYSTEMS ENGINEERING TEAM AT 240-777-2100 AT LEAST TWO WEEKS IN ADVANCE TO COORDINATE ANY MINOR TRAFFIC SIGNAL WORK, MAJOR TRAFFIC SIGNAL WORK SHALL BE COORDINATED A MINIMUM OF THIRTY (30) DAYS IN ADVANCE OF THE PROJECT, THE PERMITTEE SHALL CONTACT THE MONTGOMERY COUNTY TRAFFIC MANAGEMENT CENTER AT 240-777-2100 A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK TO HAVE EXISTING TRAFFIC SIGNAL EQUIPMENT MARKED.
- 3. THE PERMITTEE SHALL CONTACT TRAFFIC ENGINEERING STUDIES SECTION (TES) AT 240-777-6000 AT LEAST TEN (10) WORKING DAYS IN ADVANCE OF THE FINAL PAVING OPERATIONS TO SCHEDULE THE INSTALLATION OF PERMANENT PAVEMENT MARKING AND SIGNS.
- 4. THE PERMITTEE SHALL CONTACT THE DIRECTOR OF THE UPCOUNTY REGIONAL SERVICES CENTER AT 240-777-8040 AND THE DISTRICT 5 TRAFFIC SERGEANT OF THE MONTGOMERY COUNTY POLICE DEPARTMENT AT 240-773-6200, A MINIMUM OF ONE WEEK PRIOR TO THE BEGINNING OF ANY WORK ACTIVITIES.
- 5. FIELD ASSISTANCE BY THE MCDOT, DIVISION OF TRAFFIC ENGINEERING DESIGN AND OPERATION SECTION (TEDO) IS AVAILABLE UPON REQUEST. CONTACT TRAFFIC ENGINEERING DESIGN AND OPERATION SECTION (TEDO) AT 240-777-6000.
- 6. FOR MDOT SHA OFFICE OF TRAFFIC AND SAFETY. CALL 1-888-963-0307.

## MAINTENANCE OF TRAFFIC SEQUENCE OF CONSTRUCTION

- I. INSTALL TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLANS. TWO WAY TRAFFIC SHALL BE MAINTAINED ALONG BARNESVILLE ROAD AT ALL TIMES.
- 2. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS.
- 3. DEMOLISH BUILDINGS ON THE SITE THAT ARE NOT BEING MAINTAINED AND REMOVE EXISTING PAVEMENT.
- 4. COMPLETE SOIL CLEAN-UP.
- 5. COMPLETE CLEARING AND GRUBBING.
- 6. CONSTRUCT THE PARK AND RIDE ACCORDING TO THE PLANS.
- 7. CONSTRUCT THE OPERATOR RESTROOM AND ELECTRICAL CLOSET ACCORDING TO THE PLANS.
- 8. INSTALL ALL LANDSCAPING FEATURES AND INSTALL TREES AND SHRUBS.
- 9. CONSTRUCT FINAL PAVEMENT COURSE IN THE PARK AND RIDE AND ALONG BARNESVILLE ROAD.
- 10. REMOVE EROSION AND SEDIMENT CONTROL DEVICES.
- II. REMOVE TRAFFIC CONTROL DEVICES.

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

# DEPARTMENT OF TRANSPORTATION APPROVED

TCP-A TRAFFIC CONTROL PLAN GENERAL NOTES

> **BOYDS TRANSIT** IMPROVEMENTS

SCALE: NTS

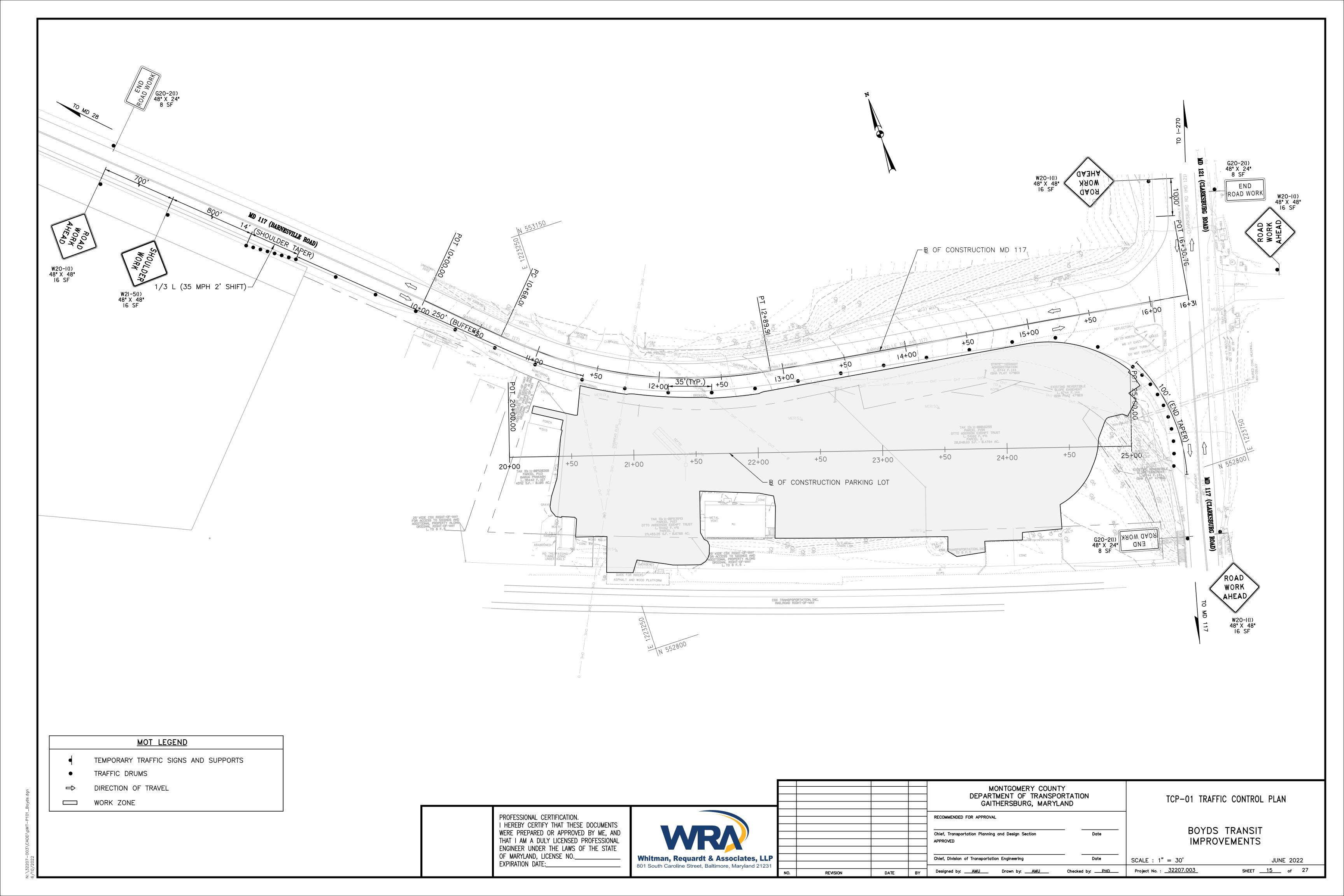
Project No. : 32207.003

JUNE 2022 SHEET <u>14</u> of 27

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:

GAITHERSBURG, MARYLAND RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section Chief, Division of Transportation Engineering Checked by: PHD Designed by: <u>AMU</u> Drawn by: <u>AMU</u>

MONTGOMERY COUNTY



## STANDARD EROSION AND SEDIMENT CONTROL NOTES

(JANUARY 2017, DPS NOTES)

- THE PERMITTEE SHALL NOTIFY THE DEPARTMENT OF PERMITTING SERVICES (DPS) FORTY-EIGHT (48) HOURS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITYAND, UNLESS WAIVED BY THE DEPARTMENT, SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETINGBETWEEN THEM OR THEIR REPRESENTATIVE. THEIR ENGINEER AND AN AUTHORIZED REPRESENTATIVE OF THE DEPARTMENT.
- 2. THE PERMITTEE MUST OBTAIN INSPECTION AND APPROVAL BY DPS AT THE FOLLOWING POINTS:
- A. AT THE REQUIRED PRE-CONSTRUCTION MEETING.
- B. FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES AND PRIOR TO ANY OTHER LAND DISTURBING ACTIVITY.
- C. DURING THE INSTALLATION OF A SEDIMENT BASIN OR STORMWATER MANAGEMENT STRUCTURE AT THE REQUIRED INSPECTION POINTS (SEE INSPECTION CHECKLIST ON PLAN). NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION IS MANDATORY.
- D. PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S).
- E. PRIOR TO FINAL ACCEPTANCE.
- THE PERMITTEE SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE, SHALL HAVE THEM INSPECTED AND APPROVED BY THE DEPARTMENT PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES, SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES, AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURE WITHOUT PRIOR PERMISSION FROM THE DEPARTMENT.
- 4. THE PERMITTEE SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED PUBLIC THOROUGHFARE(S). ALL MATERIALS DEPOSITED ONTO PUBLIC THOROUGHFARE(S) SHALL BE REMOVED IMMEDIATELY.
- 5. THE PERMITTEE SHALL INSPECT PERIODICALLY AND MAINTAIN CONTINUOUSLY IN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIMES AS THEY ARE REMOVED WITH PRIOR PERMISSION FROM THE DEPARTMENT. THE PERMITTEE IS RESPONSIBLE FOR IMMEDIATELY REPAIRING OR REPLACING ANY SEDIMENT CONTROL MEASURES WHICH HAVE BEEN DAMAGED OR REMOVED BY THE PERMITTEE OR ANY OTHER PERSON.
- 5. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:
- A. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO I VERTICAL (3H:IV): AND
- B. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
- ALL AREAS DISTURBED OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST BE MINIMIZED AND STABILIZED IMMEDIATEDLY, MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.
- . THE PERMITTEE SHALL APPLY SOD, SEED, AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS WITHIN SEVEN (7) CALENDAR DAYS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED ON THAT AREA, MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION, ACTIVE CONSTRUCTION AREAS SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS, AND AREAS WITHIN FIFTY (50) FEET OF A BUILDING UNDER CONSTRUCTION MAY BE EXEMPT FROM THIS REQUIREMENT, PROVIDED THAT EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND MAINTAINED TO PROTECT THOSE AREAS.
- . PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES. THE PERMITTEE SHALL STABILIZE ALL CONTRIBUTORY DISTURBED AREAS WITH REQUIRED SOIL AMENDMENTS AND TOPSOIL, USING SOD OR AN APPROVED PERMANENT SEED MIXTURE AND AN APPROVED ANCHORED MULCH. WOOD FIBER MULCH MAY ONLY BE USED IN SEEDING SEASON WHEN THE SLOPE DOES NOT EXCEED 10% AND GRADING HAS BEEN DONE TO PROMOTE SHEET FLOW DRAINAGE. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED WITHIN SEVEN (7) CALENDAR DAYS OF ESTABLISHMENT. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY, AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, AN APPROVED TEMPORARY SEED AND STRAW ANCHORED MULCH SHALL BE APPLIED TO DISTURBED AREAS. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE COMPLETED PRIOR TO THE FOLLOWING APRIL 15.
- 9. THE SITE PERMIT. WORK. MATERIALS. APPROVED SC/SWM PLANS. AND TEST REPORTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION BY DULY AUTHORIZED OFFICIALS OF MONTGOMERY COUNTY.
- 10. SURFACE DRAINAGE FLOWS OVER UNSTABILIZED CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER PREVENTING DRAINAGE FLOWS FROM TRAVERSING THE SLOPES OR BY INSTALLING MECHANICAL DEVICES TO LOWER THE WATER DOWNSLOPE WITHOUT CAUSING EROSION, DIKES SHALL BE INSTALLED AND MAINTAINED AT THE TOP OF CUT OR FILL SLOPES UNTIL THE SLOPE AND DRAINAGE AREA TO IT ARE FULLY STABILIZED, AT WHICH TIME THEY MUST BE REMOVED AND FINAL GRADING DONE TO PROMOTE SHEET FLOW DRAINAGE. MECHANICAL DEVICES MUST BE PROVIDED AT POINTS OF CONCENTRATED FLOW WHERE EROSION IS LIKELY TO OCCUR.
- . PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITHIN THREE (3) CALENDAR DAYS OF ESTABLISHMENT WITH SOD OR SEED WITH AN APPROVED EROSION CONTROL MATTING OR BY OTHER APPROVED STABILIZATION MEASURES.
- 12. SEDIMENT CONTROL DEVICES SHALL BE REMOVED. WITH PERMISSION OF THE DEPARTMENT. WITHIN THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS, STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL.
- 13. NO PERMANENT CUT OR FILL SLOPE WITH A GRADIENT STEEPER THAN 3:1 WILL BE PERMITTED IN LAWN MAINTENANCE AREAS OR ON RESIDENTIAL LOTS. A SLOPE GRADIENT OF UP TO 2:1 WILL BE PERMITTED IN NON-MAINTENANCE AREAS PROVIDED THAT THOSE AREAS ARE INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN WITH A LOW-MAINTENANCE GROUND COVER SPECIFIED FOR PERMANENT STABILIZATION. SLOPE GRADIENT STEEPER THAN 2: WILL NOT BE PERMITTED WITH VEGETATIVE STABILIZATION.
- 14. THE PERMITTEE SHALL INSTALL A SPLASHBLOCK AT THE BOTTOM OF EACH DOWNSPOUT UNLESS THE DOWNSPOUT IS CONNECTED BY A DRAIN LINE TO AN ACCEPTABLE OUTLET.
- 15. FOR FINISHED GRADING, THE PERMITTEE SHALL PROVIDE ADEQUATE GRADIENTS SO AS TO PREVENT WATER FROM STANDING ON THE SURFACE OF LAWNS MORE THAN TWENTY-FOUR (24) HOURS AFTER THE END OF A RAINFALL, EXCEPT IN DESIGNATED DRAINAGE COURSES AND SWALE FLOW AREAS, WHICH MAY DRAIN AS LONG AS FORTY-EIGHT (48) HOURS AFTER THE END OF A RAINFALL.
- 16. SEDIMENT TRAPS OR BASINS ARE NOT PERMITTED WITHIN 20 FEET OF A BUILDING WHICH IS EXISTING OR UNDER CONSTRUCTION, NO BUILDING MAY BE CONSTRUCTED WITHIN 20 FEET OF A SEDIMENT TRAP OR BASIN.
- 17. ALL INLETS IN NON-SUMP AREAS SHALL HAVE ASPHALT BERMS INSTALLED AT THE TIME OF BASE PAVING ESTABLISHMENT.
- 18. THE SEDIMENT CONTROL INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SEDIMENT CONTROL MEASURES, AS DEEMED NECESSARY.
- 19. ALL TRAP ELEVATIONS ARE RELATIVE TO THE OUTLET ELEVATION, WHICH MUST BE ON EXISTING UNDISTURBED GROUND.
- 20. VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL.

- 21. SEDIMENT TRAP(S)/BASIN(S) SHALL BE CLEANED OUT AND RESTORED TO THE ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO THE POINT OF ONE-HALF (1/2) THE WET STORAGE DEPTH OF THE TRAP/BASIN (I/4 THE WET STORAGE DEPTH FOR ST-III) OR WHEN REQUIRED BY THE SEDIMENT CONTROL INSPECTOR.
- 22. SEDIMENT REMOVED FROM TRAPS/BASINS SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN.
- 23. ALL SEDIMENT BASINS AND TRAPS MUST BE SURROUNDED WITH A WELDED WIRE SAFETY FENCE. THE FENCE MUST BE AT LEAST 42 INCHES HIGH, HAVE POSTS SPACED NO FARTHER APART THAN 8 FEET, HAVE MESH OPENINGS NO GREATER THAN TWO INCHES IN WIDTH AND FOUR INCHES IN HEIGHT, WITH A MINIMUM OF 14 GAUGE WIRE. SAFETY FENCE MUST BE MAINTAINED IN GOOD CONDITION AT ALL TIMES.
- 24. NO EXCAVATION IN THE AREA OF EXISTING UTILITIES IS PERMITTED UNLESS THEIR LOCATION HAS BEEN DETERMINED. CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF
- 25. OFF-SITE SPOIL OR BORROW AREAS MUST HAVE PRIOR APPROVAL BY DPS.

EARTH DIKE

TEMPORARY SWALE

STONE CHECK DAM.

SUPER SILT FENCE ...

SILT FENCE ....

PERIMETER DIKE/SWALE.

STONE OUTLET STRUCTURE

SILT FENCE ON PAVEMENT

STANDARD INLET PROTECTION

AT GRADE INLET PROTECTION.

CURB INLET PROTECTION

MEDIAN INLET PROTECTION

GABION INFLOW PROTECTION

RIPRAP INFLOW PROTECTION

REMOVABLE PUMPING STATION .

PORTABLE SEDIMENT TANK.

SUMP PIT ...

FILTER LOG ...

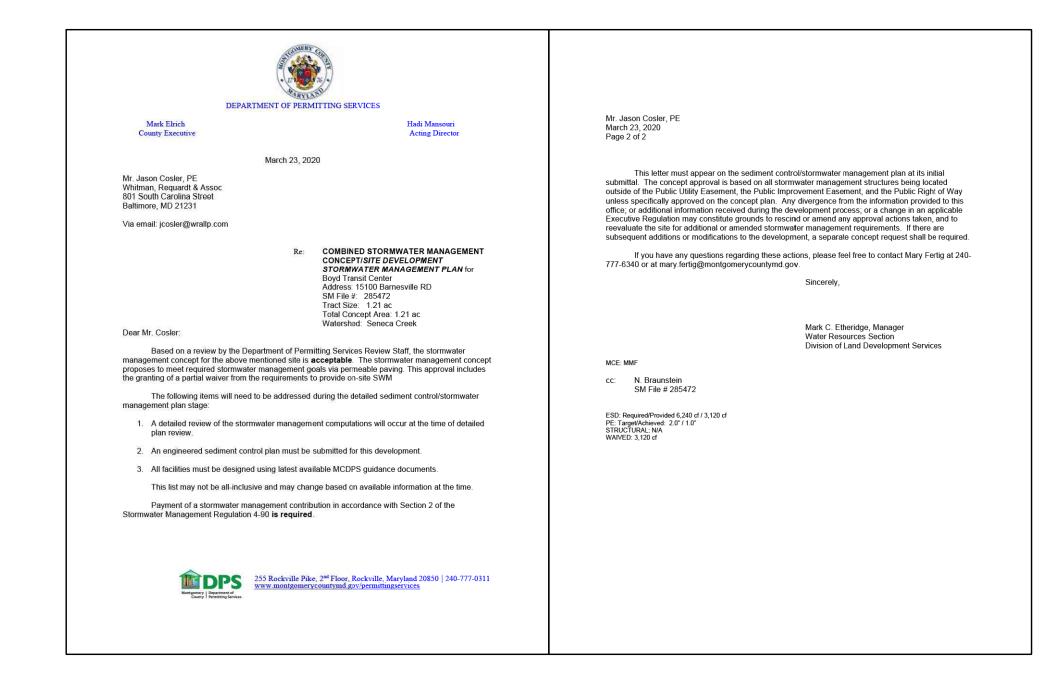
TEMPORARY BERM

- 26. SEDIMENT TRAP/BASIN DEWATERING FOR CLEANOUT OR REPAIR MAY ONLY BE DONE WITH THE DPS INSPECTOR'S PERMISSION. THE INSPECTOR MUST APPROVE THE DEWATERING METHOD FOR EACH APPLICATION. THE FOLLOWING METHODS MAY BE CONSIDERED:
- A. PUMP DISCHARGE MAY BE DIRECTED TO ANOTHER ON-SITE SEDIMENT TRAP OR BASIN. PROVIDED IT IS OF SUFFICIENT VOLUME AND THE PUMP INTAKE IS FLOATED TO PREVENT AGITATION OR SUCTION OF A DEPOSITED SEDIMENTS; OR
- B. THE PUMP INTAKE MAY UTILIZE A REMOVABLE PUMPING STATION AND MUST DISCHARGE INTO AN UNDISTURBED AREA THROUGH A NON-EROSIVE OUTLET; OR
- C. THE PUMP INTAKE MAY BE FLOATED AND DISCHARGE INTO A DIRT BAG (12 OZ. NON-WOVEN FABRIC), OR APPROVED EQUIVALENT, LOCATED IN AN UNDISTURBED BUFFER

REMEMBER: DEWATER OPERATIONS AND METHODS MUST HAVE PRIOR APPROVAL BY THE DPS INSPECTOR.

- 27. THE PERMITTEE MUST NOTIFY THE DEPARTMENT OF ALL UTILITY CONSTRUCTION ACTIVITIES WITHIN THE PERMITTED LIMITS OF DISTURBANCE PRIOR TO THE COMMENCEMENT OF THOSE ACTIVITIES.
- 28. TOPSOIL MUST BE APPLIED TO ALL PERVIOUS AREAS WITHIN THE LIMITS OF DISTURBANCE PRIOR TO PERMANENT STABILIZATION IN ACCORDANCE WITH MDE "STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS."

## STORMWATER MANAGEMENT CONCEPT APPROVAL



## MISS UTILITY

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.

<u>DESIGN CERTIFICAT</u>ION

"I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I & II, INCLUDING SUPPLEMENTS, THE ENVIRONMENT ARTICLE SECTIONS 4-101 THROUGH II6 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."

JASON D. COSLER	
NAME	SIGNATURE
28467	JUNE 6, 2022
MARYLAND. REGISTRATION NUMBER. P.E., R.L.S. OR R.L.A. (circle)	DATE

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

LICENSE NO	28467
EXPIRATION DATE:	12/20/2022

SITE	INFORMATION.	(NOT	FOR	BIDDING	PLIRPOSES
		UNUL	ΓUR	DIDUING	LUKLUSES!

REVISION

ROP

CWD - 12

PSD - 12

ST-I

PCWD

DESIGNATION CWD-12 REFERS TO 12 INCH CLEAR WATER DIVERSION.

DESIGNATION PSD-12 REFERS TO

| ST-II | ST-III

——LOD ——

TOTAL AREA OF SITE	1.30 ACRES
AREA DISTURBED	I.30 ACRES
AREA TO BE ROOFED OR PAVED _	0.72 ACRES
TOTAL CUT	4,500 CU. YI
TOTAL FILL	1,300 CU. YI
OFFSITE WASTE/BORROW	
AREA LOCATION (IF KNOWN) _	<u> N/A                                   </u>

MCDPS-SC/SWM SHEET NO. 9 OF 18 MONTGOMERY COUNTY

EN-01 EROSION AND SEDIMENT GENERAL CONTROL NOTES

**BOYDS TRANSIT** 

IMPROVEMENTS JUNE 2022

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

STANDARD SYMBOLS

PDS-I

—SSF——SSF—

├── SF0P ──┤

SIP

AGIP

CIP

GM

□ PST

----- FL-I8 -------

DESIGNATION FL-18 REFERS TO - 18 INCH DIAMETER FILTER LOG.

|--- FB-A ----|

|--- FB-B ----|

PLACE DESIGNATION (e.g., a-1) on STABILIZED CONSTRUCTION ENTRANCE.

SOIL STABILIZATION MATTING

CLEAR WATER DIVERSION PIPE

PIPE OUTLET SEDIMENT TRAP \_

STONE/RIPRAP OUTLET SEDIMENT TRAP ...

LIMIT OF DISTURBANCE .....

PUMP, CLEAR WATER DIVERSION .....

EXISTING CONTOURS ------

PROPOSED CONTOURS \_\_\_\_\_\_ 100 —

WETLAND BOUNDARY \_\_\_\_\_\_ -----

WETLAND BUFFER \_\_\_\_\_\_\_\_\_

WATERS OF THE U.S. -----

ROCK OUTLET PROTECTION

PIPE SLOPE DRAIN

GABIONS

Chief, Division of Transportation Engineering Designed by: <u>ABR</u> Drawn by: <u>ABR</u>

RECOMMENDED FOR APPROVAL

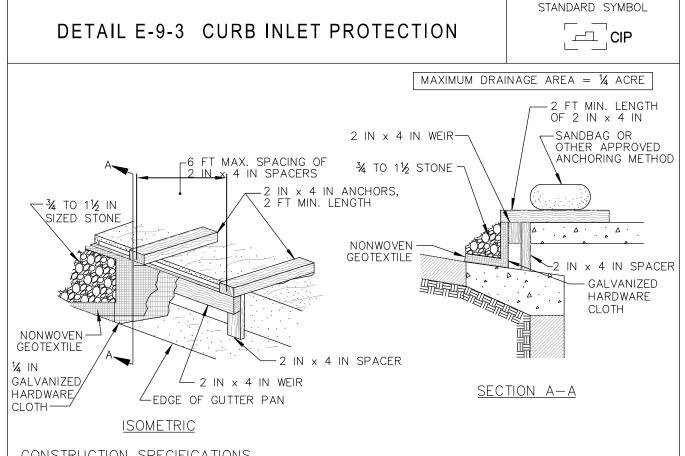
APPROVED

Chief, Transportation Planning and Design Section

DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND

> SCALE: NONE Project No. : 32207.003 Checked by: \_\_\_\_JDC\_\_\_\_

SHEET <u>16</u> of 27



#### CONSTRUCTION SPECIFICATIONS

- 1. USE NOMINAL 2 INCH x 4 INCH LUMBER
- 2. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
- 3. NAIL THE 2x4 WEIR TO 9 INCH LONG VERTICAL SPACERS (MAXIMUM 6 FEET APART).
- . ATTACH A CONTINUOUS PIECE OF 14 INCH GALVANIZED HARDWARE CLOTH, WITH A MINIMUM WIDTH OF 30 INCHES AND A MINIMUM LENGTH OF 4 FEET LONGER THAN THE THROAT OPENING, TO THE 2x4 WEIR, EXTENDING IT 2 FEET BEYOND THROAT ON EACH SIDE.
- PLACE A CONTINUOUS PIECE OF NONWOVEN GEOTEXTILE OF THE SAME DIMENSIONS AS THE HARDWARE CLOTH OVER THE HARDWARE CLOTH AND SECURELY ATTACH TO THE 2x4 WEIR.
- . PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL TO 2x4 ANCHORS (MINIMUM 2 FEET LENGTH). EXTEND THE ANCHORS ACROSS THE INLET TOP AND HOLD IN PLACE BY SANDBAGS OR OTHER APPROVED ANCHORING METHOD.
- INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING.
- FORM THE HARDWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE GUTTER AND FACE OF CURB TO SPAN THE INLET OPENING. COVER THE HARDWARE CLOTH AND GEOTEXTILE WITH CLEAN ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE.
- AT NON-SUMP LOCATIONS, INSTALL A TEMPORARY SANDBAG OR ASPHALT BERM TO PREVENT INLET BYPASS.
- O. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

## SEQUENCE OF CONSTRUCTION NOTES FOR EROSION AND SEDIMENT CONTROL (PROJECT IS EXEMPT FROM FOREST CONSERVATION LAW)

## GENERAL NOTES FOR PROJECT

- I. PRIOR TO CLEARING OF TREES, INSTALLING SEDIMENT CONTROL MEASURES, OR GRADING, A PRE-CONSTRUCTION MEETING MUST BE CONDUCTED ON-SITE WITH THE MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES (MCDPS) SEDIMENT CONTROL INSPECTOR (240) 777-0311 (48 HOURS NOTICE), THE OWNER'S REPRESENTATIVE, AND THE SITE ENGINEER. IN ORDER FOR THE MEETING TO OCCUR. THE PERMITTEE MUST PROVIDE ONE PAPER SET OF APPROVED SEDIMENT CONTROL PLANS TO THE MCDPS SEDIMENT CONTROL INSPECTOR AT THE PRE-CONSTRUCTION MEETING. IF NO PLANS ARE PROVIDED, THE MEETING SHALL NOT OCCUR AND WILL NEED TO BE RE-SCHEDULED PRIOR TO COMMENCING WORK.
- 2. THE LIMITS OF DISTURBANCE MUST BE FIELD MARKED PRIOR TO CLEARING OF TREES. INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION, OR OTHER LAND DISTURBING ACTIVITIES.

## FOLLOWING PROCEDURES SHALL BE IMPLEMENTED DURING EXECUTION OF THE DETAILED SEQUENCE CONSTRUCTION INCLUDED ON THE "EN-OI EROSION AND SEDIMENT CONTROL NOTES AND DETAILS"

- 3. CLEAR AND GRUB FOR INSTALLATION OF SEDIMENT CONTROL DEVICES.
- 4. ANY TRAPS AND BASINS SHALL BE CONSTRUCTED PRIOR TO ONSTRUCTION OF ANY EARTH DIKES THAT CONVEY DRAINAGE TO A TRAP AND/OR BASIN.
- 5. ONCE THE SEDIMENT CONTROL DEVICES ARE INSTALLED, THE PERMITTEE MUST OBTAIN WRITTEN APPROVAL FROM THE MCDPS INSPECTOR BEFORE PROCEEDING WITH ANY ADDITIONAL CLEARING, GRUBBING. OR GRADING.
- 6. COORDINATE SEDIMENT CONTROL ACTIVITIES WITH MAINTENANCE OF TRAFFIC PLAN.

## STAGE I - SUBGRADE

- 7. INSTALL PERIMETER CONTROL SSF I-I THROUGH SSF I-7 AND REMOVE EXISTING STRUCTURES WITHIN THE FOOTPRINT OF PROPOSED SUBGRADE GRADING.
- 8. INSTALL STABILIZED CONSTRUCTION ENTRANCE SCE I-I AND COMMENCE EXCAVATION OPERATIONS PER SUBGRADE GRADING PLAN ON SW-OI AND INSTALL SP I-I THROUGH SP I-4.
- 9. UPON COMPLETION OF SUBGRADE GRADING, INSTALL STORM DRAIN FROM I-6 TO ES-I AND REMOVE AND RESET EXISTING RIPRAP AS REQUIRED.
- 10. COMMENCE OPERATIONS TO INSTALL PERVIOUS CONCRETE AGGREGATE SUBBASE PER TYPICAL DETAIL ON SHEET 7. INSTALL AND CONNECT OVERDRAIN DRAINAGE SYSTEM TO 1-6.
- II. UPON PLACEMENT OF PERVIOUS CONCRETE SUBBASE, REMOVE SSF 1-5, SSF 1-6, SSF 1-7, AND SP I-I THROUGH I-4 AND INSTALL TSOS I-I AND PROCEED TO STAGE 2.

## STAGE 2

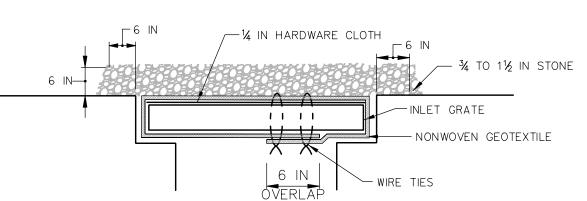
- 12. PERFORM DEMOLITION AND REMOVAL OF EXISTING POOLESVILLE BUILDING AND SEPTIC SYSTEM IMPROVEMENTS.
- 13. INSTALL THE REMAING PROPOSED STORM DRAIN SYSTEM STRUCTURES AND PIPES ALONG WITH INLET PROTECTION CIP 2-I, CIP 2-2, CIP 2-3, CIP 2-4, CIP 2-5, AND AGIP 2-I
- 14. UPON COMPLETION OF CONSTRUCTION AND WITH APPROVAL OF THE MCDPS SEDIMENT CONTROL INSPECTOR, THE SEDIMENT CONTROL DEVICES MAY BE REMOVED, ANY AREAS DISTURBED BY THE REMOVAL PROCESS MUST BE STABILIZED IMMEDIATELY.

IAXIMUM DRAINAGE AREA = 1 ACR 34 TO 11/2 IN STONE 1/4 IN GALVANIZED HARDWARE CLOTH NONWOVEN GEOTEXTILE <u>PLAN / CUT AWAY VIEW</u>

DETAIL E-9-2 AT-GRADE INLET PROTECTION

STANDARD SYMBOL

AGIP



## CONSTRUCTION SPECIFICATIONS

NATURAL RESOURCES CONSERVATION SERVICE

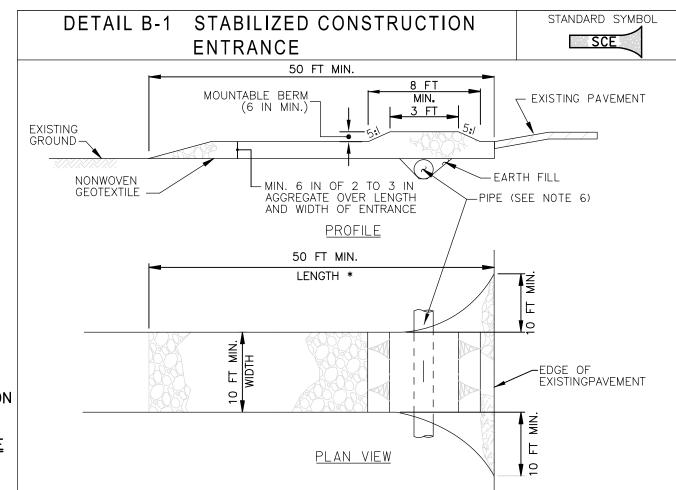
- . USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-I MATERIALS.
- . LIFT GRATE AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS. SECURE WITH WIRE TIES AND SET GRATE BACK IN PLACE.

CROSS SECTION

- 3. PLACE CLEAN  $^3\!\!4$  TO I $^\prime\!\!4$  inch stone or equivalent recycled concrete 6 inches thick on the
- 4. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION



## <u>CONSTRUCTION SPECIFICATIONS</u>

- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN, VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (\*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE. MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH
- PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-I MATERIALS.
- PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
- MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED T AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

PROFESSIONAL CERTIFICATION.

OF MARYLAND, LICENSE NO.\_\_

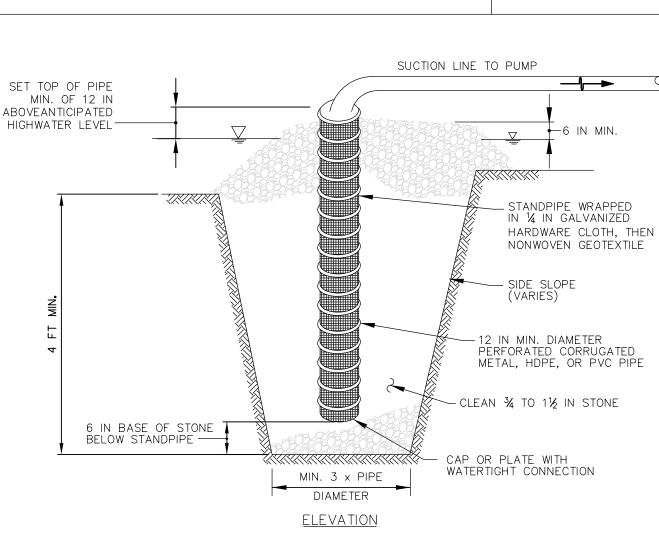
EXPIRATION DATE:\_

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



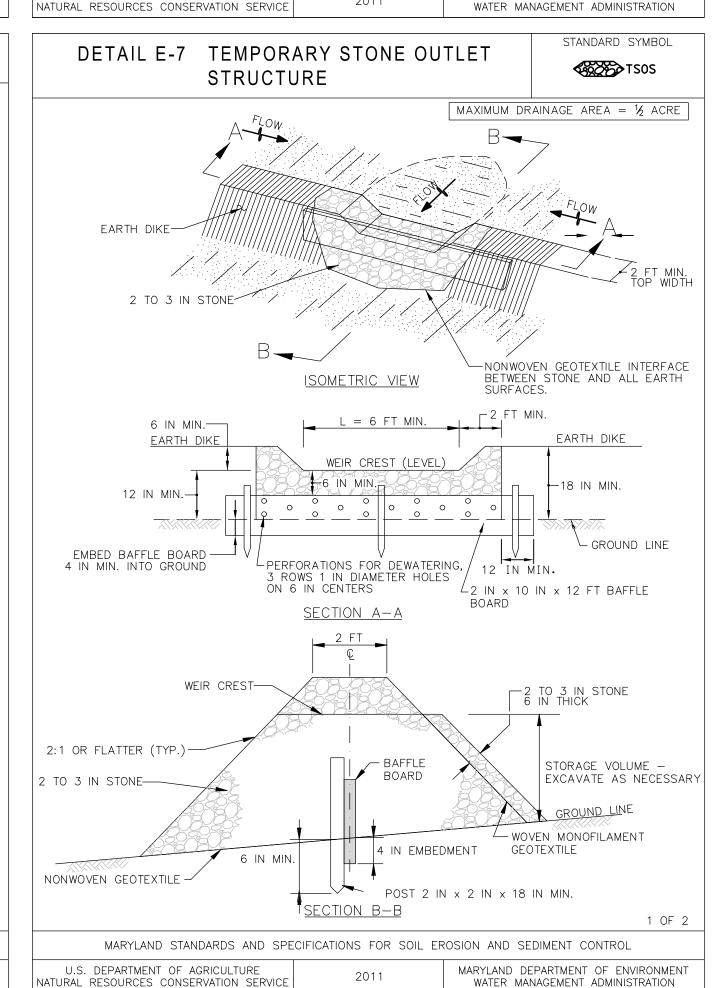
DETAIL F-2 SUMP PIT

STANDARD SYMBOL

#### CONSTRUCTION SPECIFICATIONS

- USE 12 INCH OR LARGER DIAMETER CORRUGATED METAL, HDPE, OR PVC PIPE WITH 1 INCH DIAMETER PERFORATIONS, 6 INCHES ON CENTER. BOTTOM OF PIPE MUST BE CAPPED WITH WATERTIGHT SEAL. WRAP PIPE WITH 1/4 INCH GALVANIZED HARDWARE CLOTH AND WRAP NONWOVEN GEOTEXTILE, AS
- SPECIFIED IN SECTION H-1 MATERIALS, OVER THE HARDWARE CLOTH. EXCAVATE PIT TO THREE TIMES THE PIPE DIAMETER AND FOUR FEET IN DEPTH. PLACE 34 TO 11/2 INCH
- STONE OR EQUIVALENT RECYCLED CONCRETE, 6 INCHES IN DEPTH PRIOR TO PIPE PLACEMENT. 4. SET TOP OF PIPE MINIMUM 12 INCHES ABOVE ANTICIPATED WATER SURFACE ELEVATION.
- BACKFILL PIT AROUND THE PIPE WITH 3/4 TO 11/2 INCH CLEAN STONE OR EQUIVALENT RECYCLED CONCRETE AND EXTEND STONE A MINIMUM OF 6 INCHES ABOVE ANTICIPATED WATER SURFACE
- 6. DISCHARGE TO A STABLE AREA AT A NONEROSIVE RATE
- A SUMP PIT REQUIRES FREQUENT MAINTENANCE. IF SYSTEM CLOGS, REMOVE PERFORATED PIPE AND REPLACE GEOTEXTILE AND STONE. KEEP POINT OF DISCHARGE FREE OF EROSION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT



118118118118 1/8//8//8 SURFACE— 2% IN DIAMETER GALVANIZED CHAIN LINK FENCE WITH GALVANIZED WOVEN SLIT FILM GEOTEXTILE ALUMINUM ELEVATION CHAIN LINK FENCING WOVEN SLIT FILM GEOTEXTILE-CHAIN LINK FENCE 8 IN MIN. INTO GROUND CROSS SECTION

DETAIL E-3 SUPER SILT FENCE

STANDARD SYMBOL

H—SSF—H

#### CONSTRUCTION SPECIFICATIONS

- INSTALL 23/8 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART, DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO
- 2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 $^3\!4$  INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
- 3. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-I MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID
- SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND. . WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
- 5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
- PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-I MATERIALS.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

#### DETAIL E-7 TEMPORARY STONE OUTLET **₹** STRUCTURE

CONSTRUCTION SPECIFICATIONS

- 1. PROVIDE STORAGE VOLUME AS SPECIFIED ON APPROVED PLANS.
- 2. USE NONWOVEN GEOTEXTILE ON INTERFACE BETWEEN GROUND AND STONE.
- · PERFORATE BAFFLE BOARD WITH 3 ROWS OF 1 INCH DIAMETER HOLES 6 INCHES ON CENTER, EMBED A MINIMUM OF 4 INCHES INTO GROUND, AND EXTEND BAFFEL BOARD MINIMUM OF 12 INCHES INTO EARTH DIKE.
- 4. USE CLEAN 2 TO 3 INCH STONE OR EQUIVALENT RECYCLED CONCRETE, PLACE WOVEN MONOFILAMENT GEOTEXTILE ON UPSTREAM FACE AND COVER WITH A MINIMUM OF 6 INCHES OF ADDITIONAL STONE.
- · USE NONWOVEN AND WOVEN MONOFILAMENT GEOTEXTILES AS SPECIFIED IN SECTION H-1
- 6. SET WEIR CREST OF STONE 6 INCHES LOWER THAN THE TOP OF EARTH DIKE. USE MINIMUM
- LENGTH OF 6 FEET FOR WEIR CREST. REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO WITHIN 6 INCHES OF WEIR CREST. REPLACE GEOTEXTILE AND STONE FACING WHEN STRUCTURE CEASES TO DRAIN, MAINTAIN LINE, GRADE,
- 8. UPON REMOVAL OF STONE OUTLET STRUCTURE, GRADE AREA FLUSH WITH EXISTING GROUND. WITHIN 24 HOURS STABILIZE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED ON APPROVED PLAN.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

Checked by: \_\_\_\_JDC\_\_\_\_

MONTGOMERY COUNTY

DEPARTMENT OF TRANSPORTATION

EN-02 EROSION AND SEDIMENT CONTROL NOTES

AND DETAILS

2 OF 2

SCALE: NONE

Project No. : 32207.003

GAITHERSBURG, MARYLAND RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section APPROVED Chief, Division of Transportation Engineering

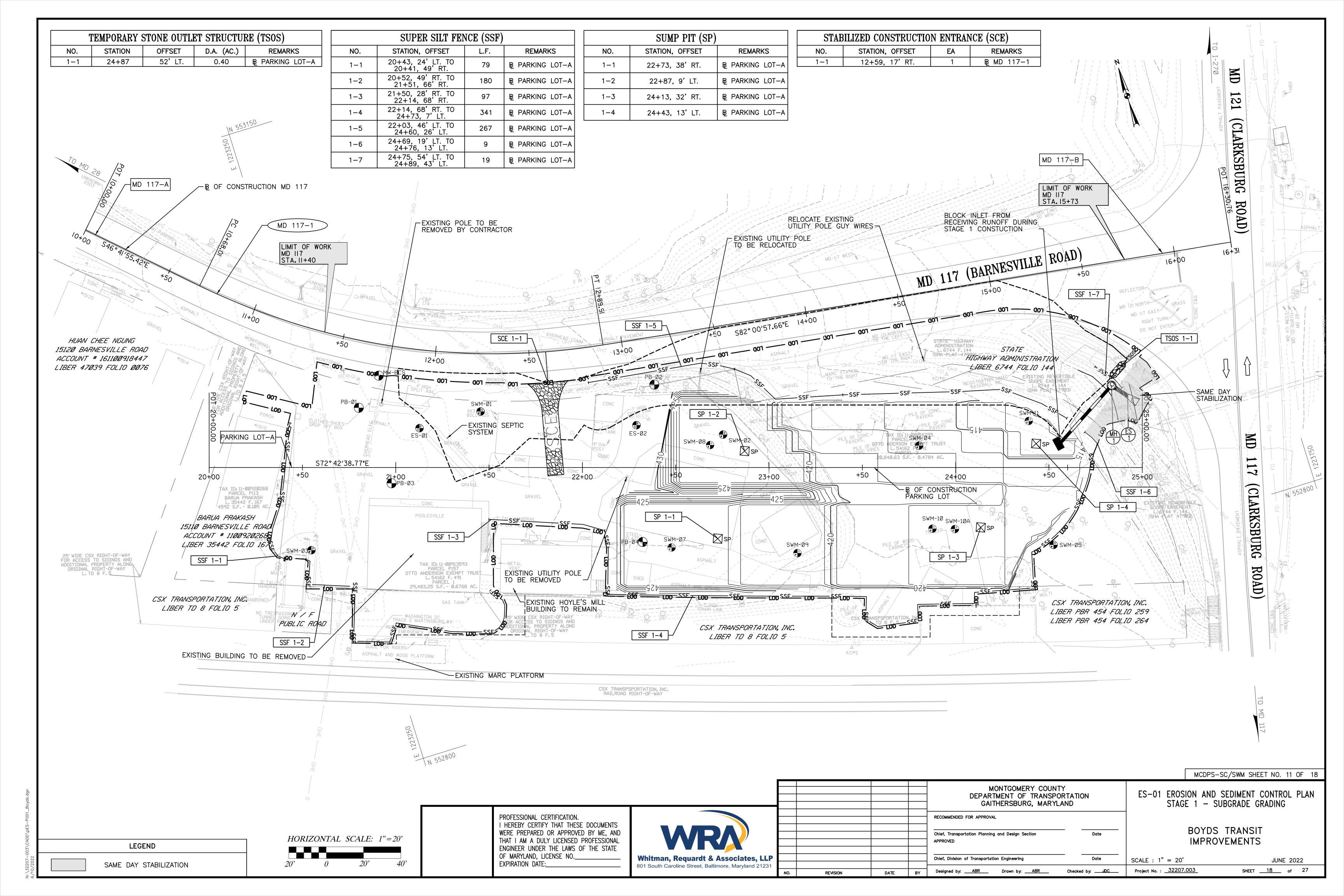
Whitman, Requardt & Associates, LLP 801 South Caroline Street, Baltimore, Maryland 21231 Designed by: <u>ABR</u> Drawn by: <u>ABR</u>

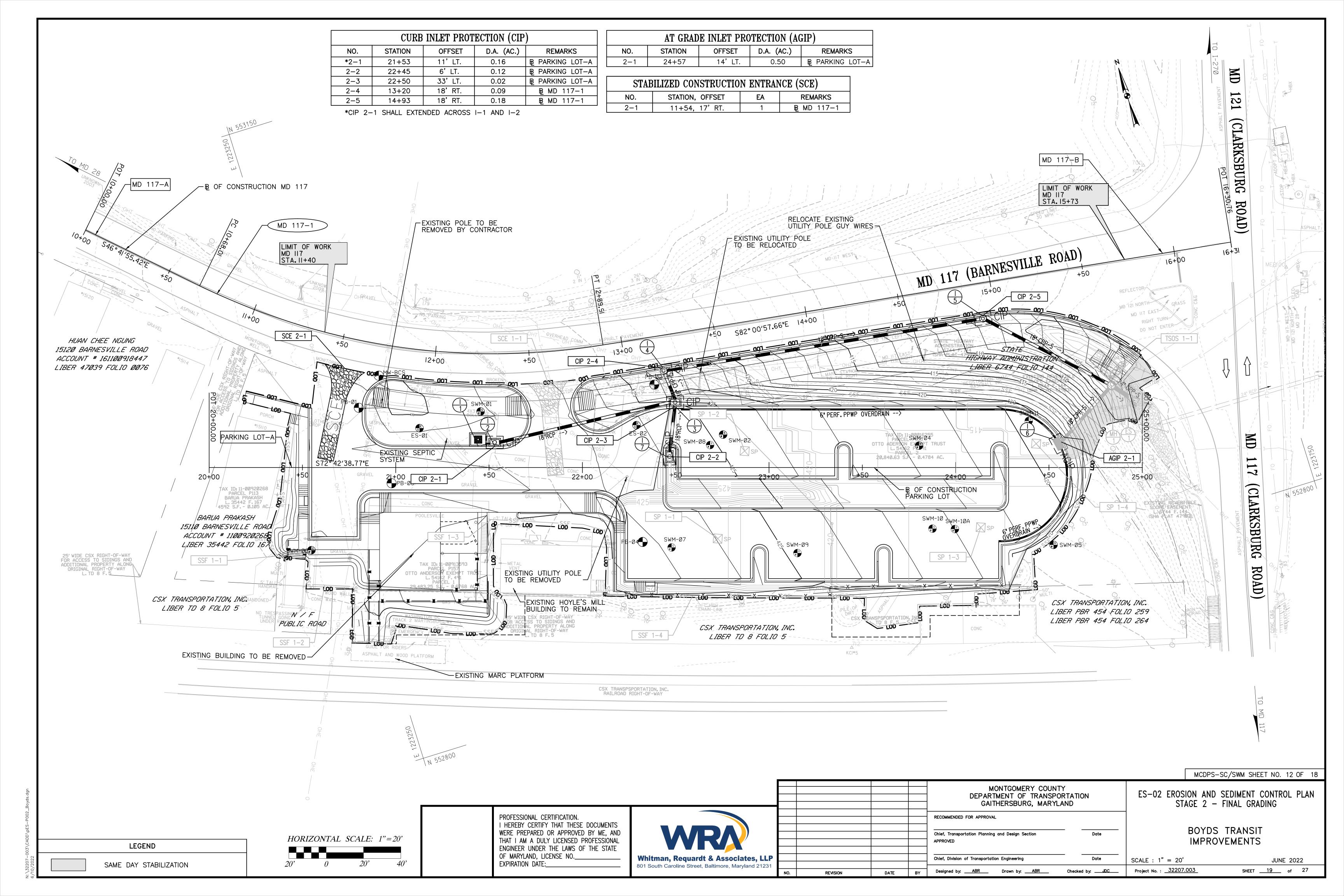
**BOYDS TRANSIT IMPROVEMENTS** 

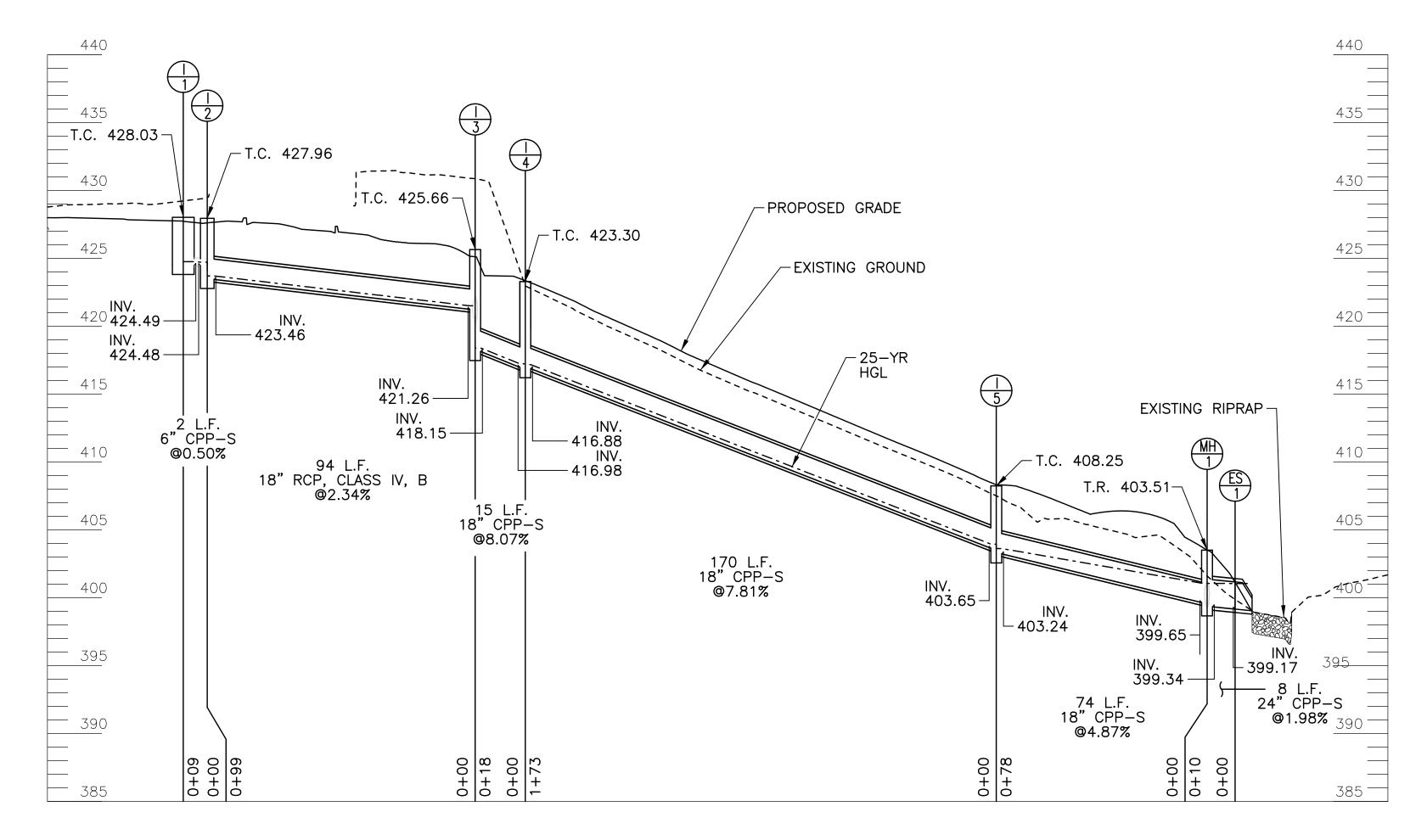
JUNE 2022

SHEET <u>17</u> of 27

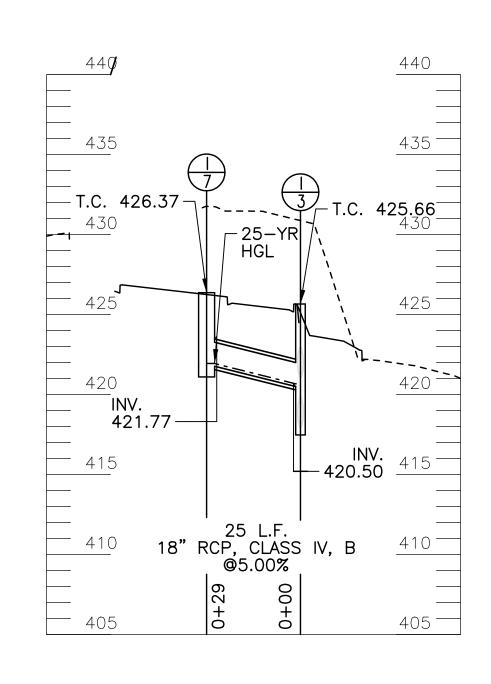
MCDPS-SC/SWM SHEET NO. 10 OF 18



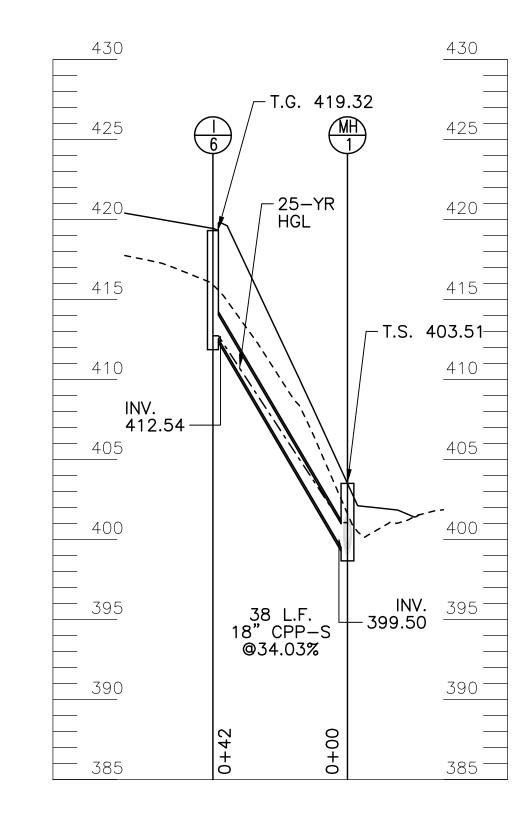




STA 21+44, LT B PARKING LOT-A LT TO STA 15+63, RT B MD 117-1 HORI SCALE: 1"=30' VERT SCALE: 1"=6'



STA 22+45, LT B PARKING LOT-A LT TO STA 22+50, LT B PARKING LOT-A HORI SCALE: 1"=30' VERT SCALE: 1"=6'



STA 24+57, LT B PARKING LOT-A LT TO STA 15+63, RT B MD 117-1 HORI SCALE: 1"=30' VERT SCALE: 1"=6'

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:\_



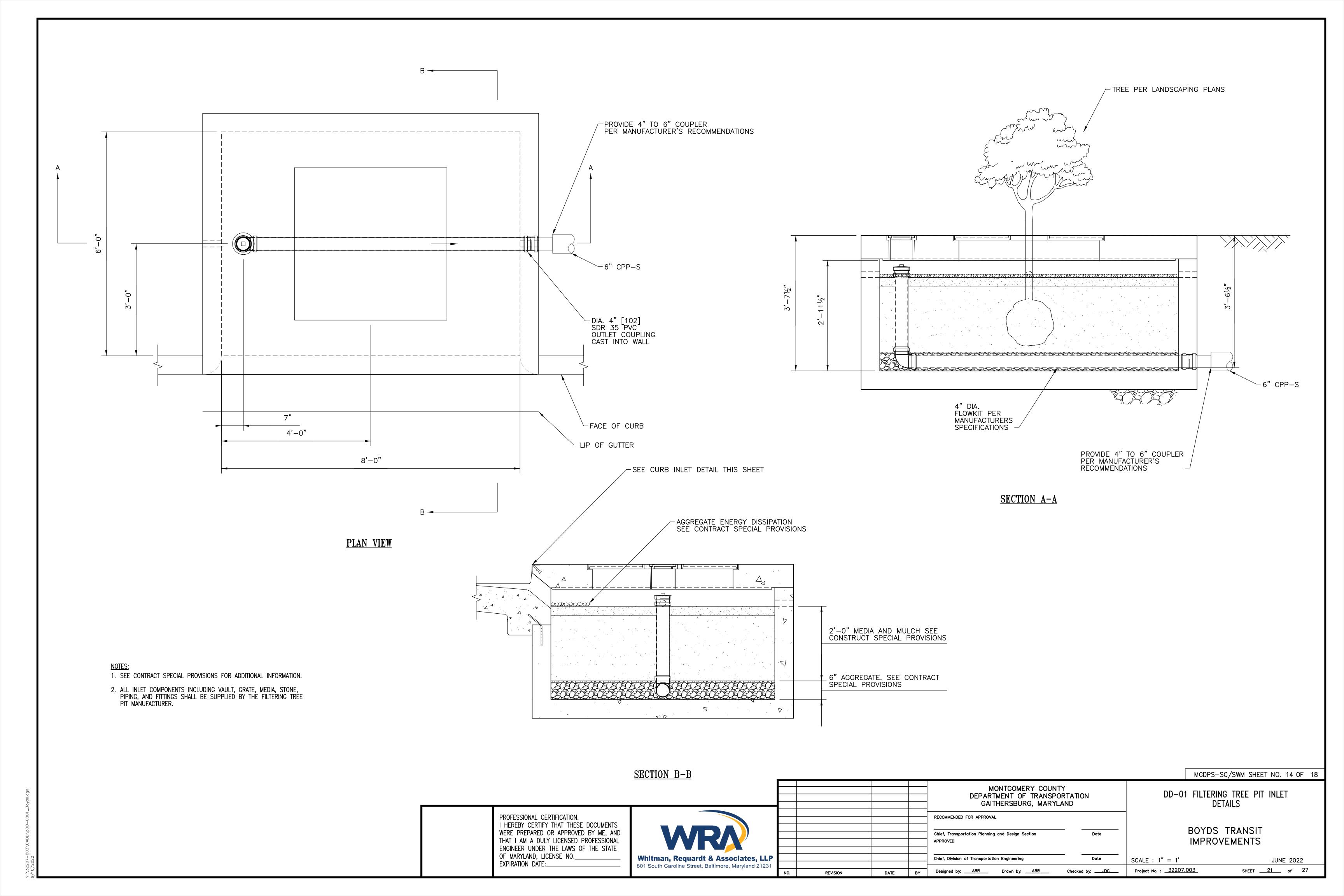
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section Chief, Division of Transportation Engineering Designed by: ABR Drawn by: ABR Checked by: \_\_\_\_JDC\_\_\_\_

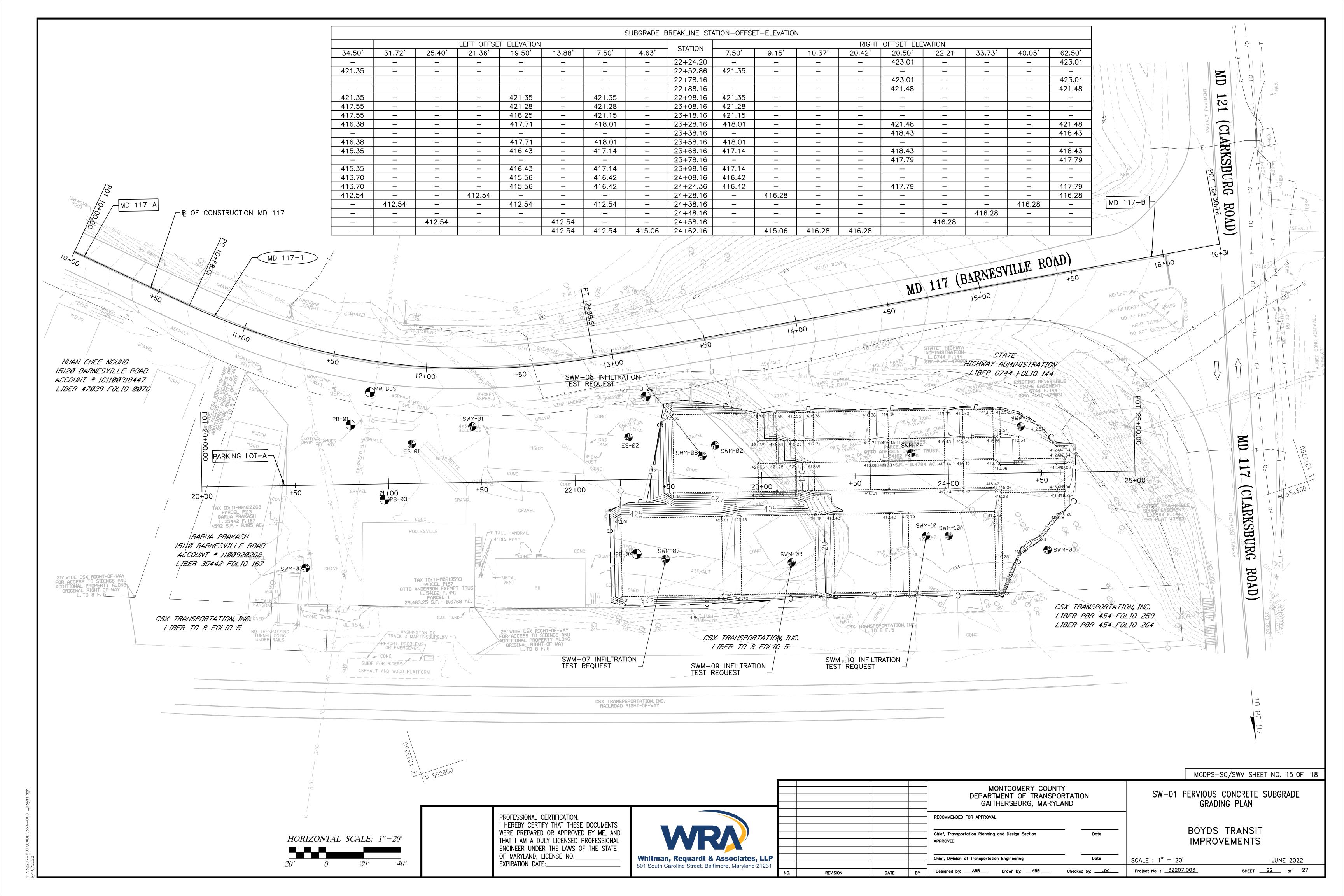
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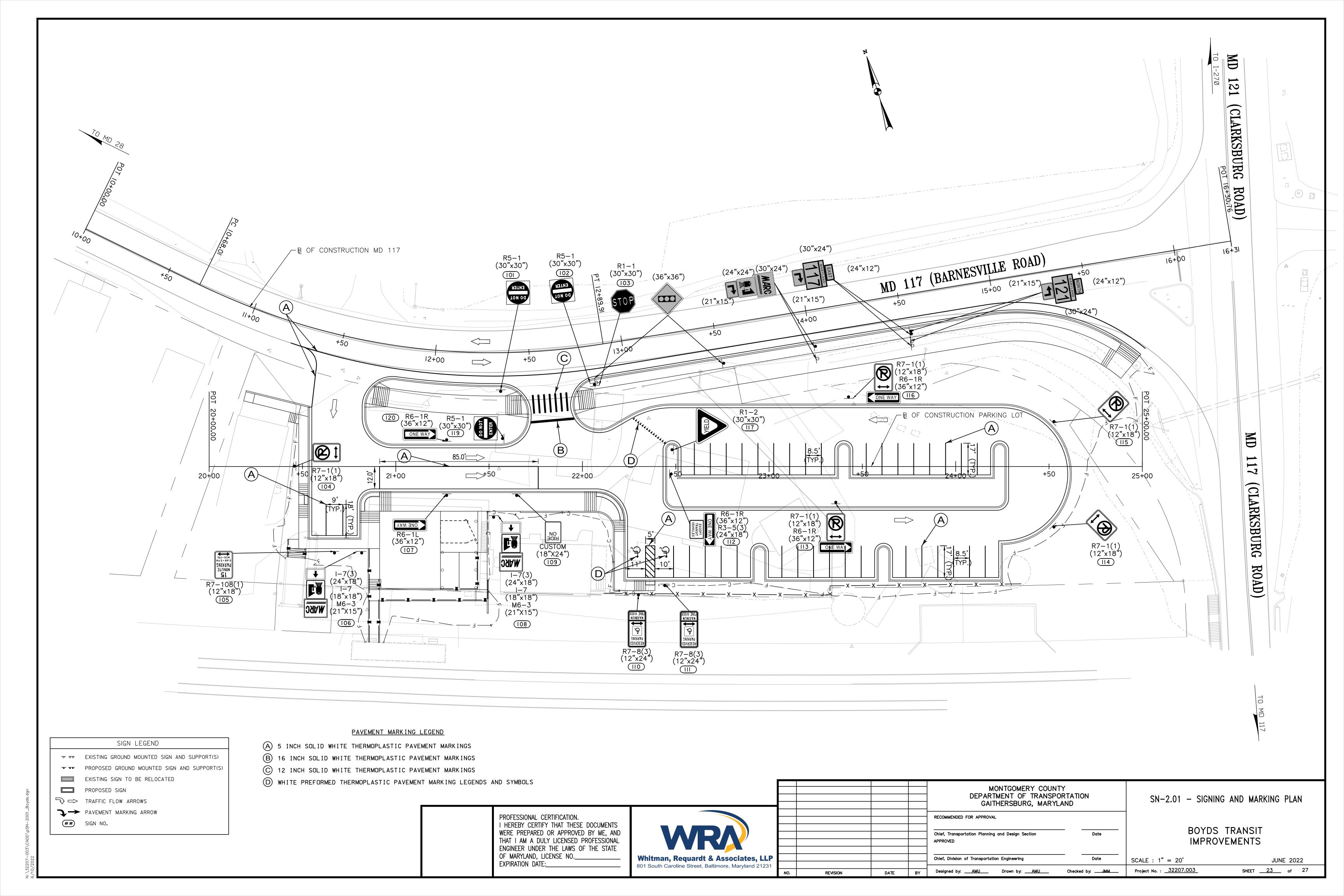
DP-01 DRAINAGE PROFILES

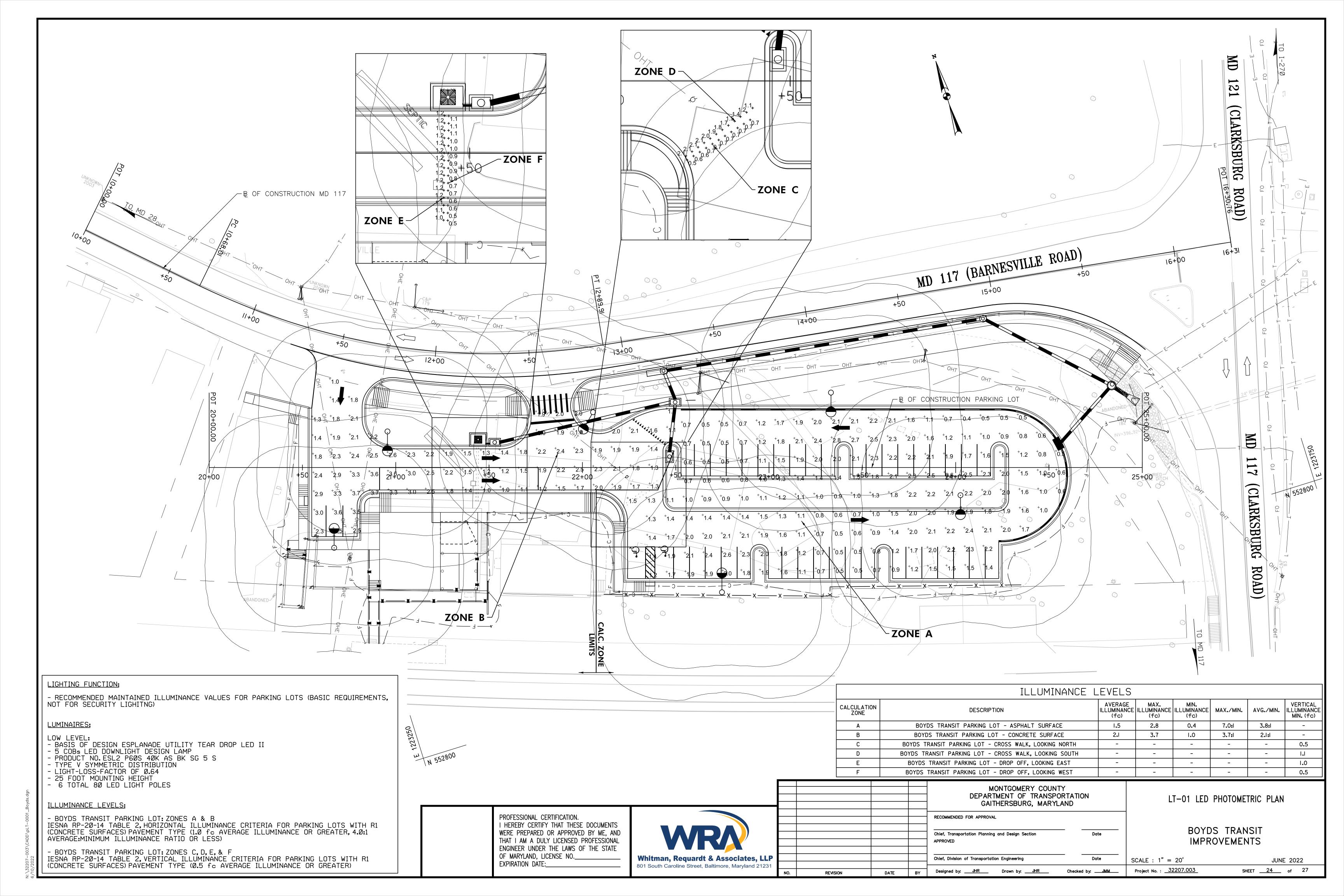
**BOYDS TRANSIT IMPROVEMENTS** 

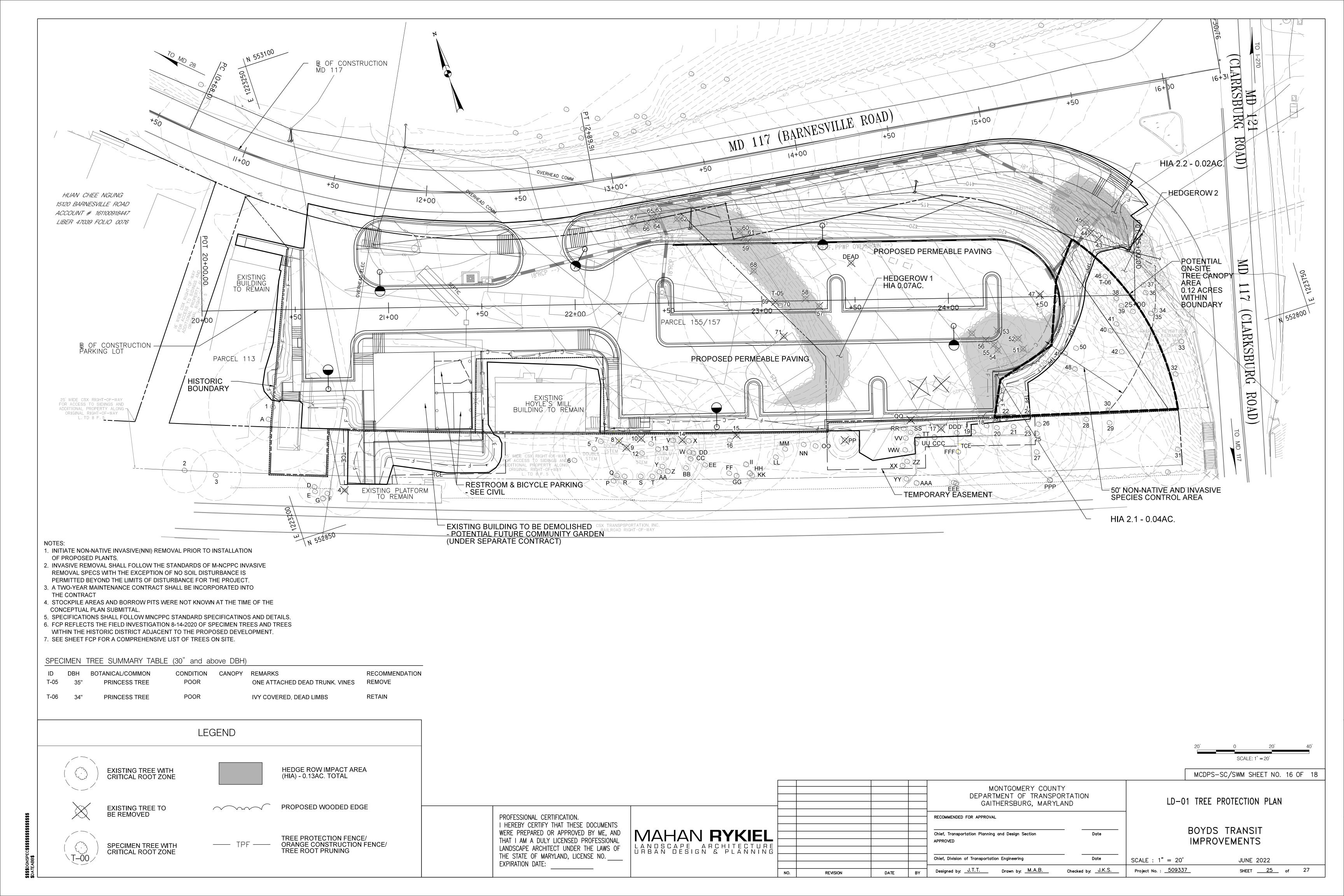
SCALE : 1" = 30'JUNE 2022 Project No. : 32207.003 SHEET <u>20</u> of 27

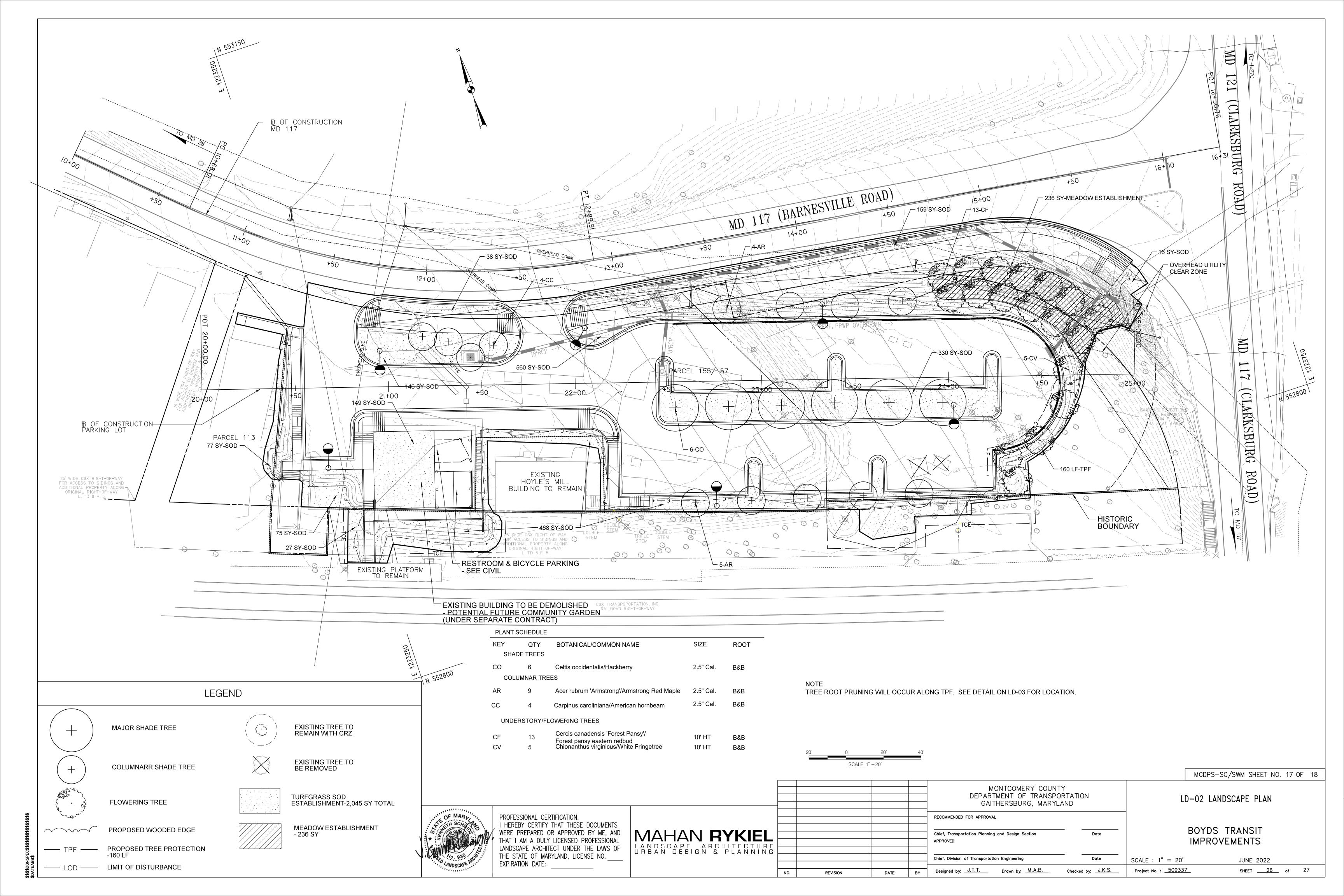


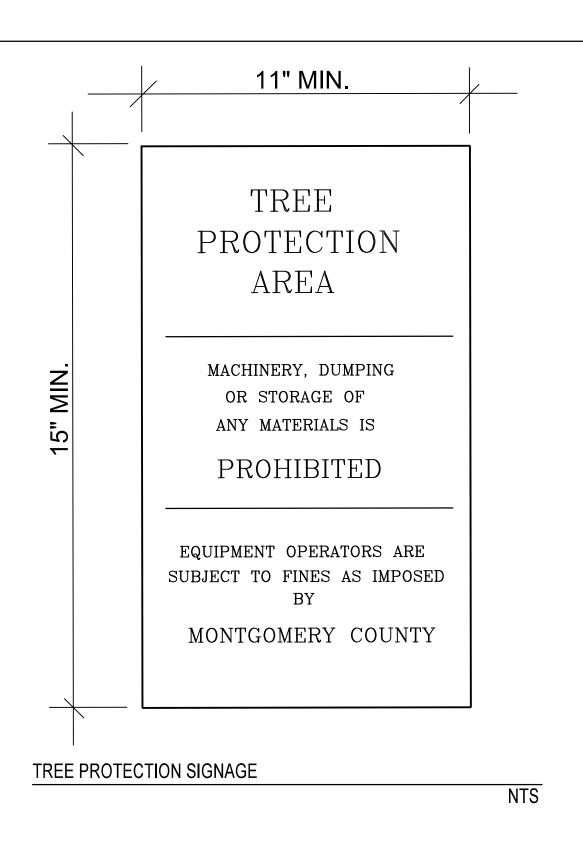




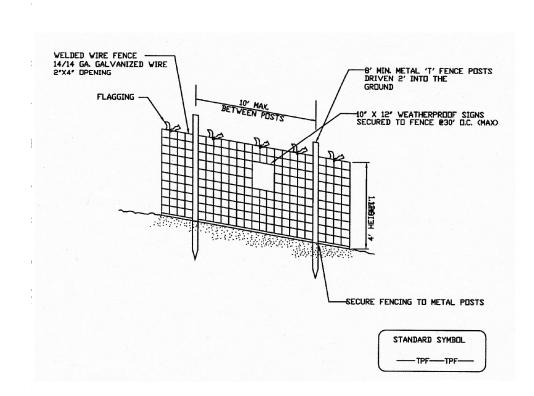






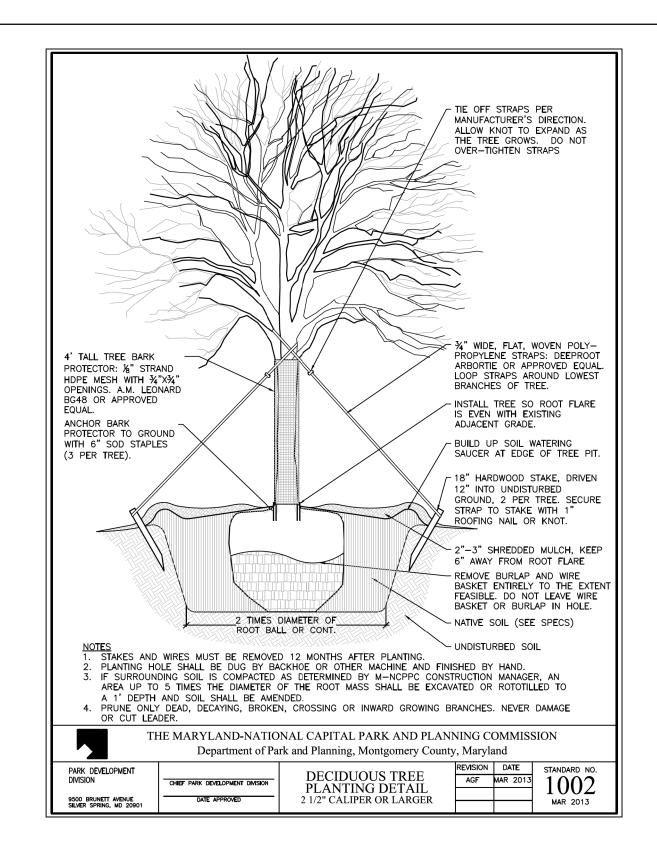


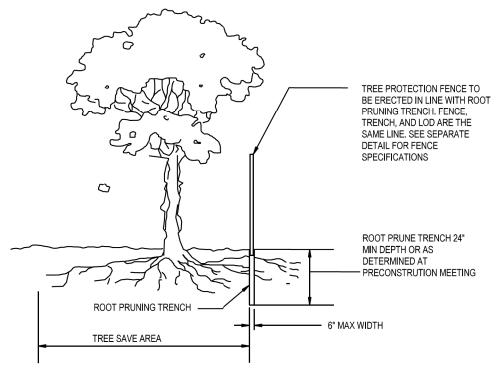
Tree Protection Fence Detail Not to scale



- 1. Practice may be combined with sediment control fencing.
- 2. Location and limits of fencing should be coordinated in field with arborist.
- 3. Boundaries of protection area should be staked
- prior to installing protective device. Root damage should be avoided.
- Protection signage is required.
  Fencing shall be maintained throughout construction.

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## NOTES:

1. RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION

2. BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING

AND FLAGGED PRIOR TO TRENCHING. 3. EXACT LOCATION OF TRENCH SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH

THE FOREST CONSERVATION (FC) INPECTOR. 4. TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH EXCAVATED SOIL OR OTHER ORGANIC

SOIL AS SPECIFIED PER PLAN OR BY THE FC INSPECTOR.

5. ROOTS SHALL BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE

6. ALL PRUNING MUST BE EXECUTED WITH LOD SHOWN ON PLANS OR AS AUTHORIZED IN

WRITING BY THE FC INSPECTOR.

ROOT PRUNING DETAIL

MCDPS-SC/SWM SHEET NO. 18 OF 18 MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION LD-03 DETAILS AND NOTES GAITHERSBURG, MARYLAND RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section

Designed by: <u>J.T.T.</u> Drawn by: <u>M.A.B.</u>

Chief, Division of Transportation Engineering

APPROVED

BOYDS TRANSIT **IMPROVEMENTS** SCALE : NTS JUNE 2022 Checked by: J.K.S. Project No. : <u>509337</u> SHEET <u>27</u> of 27

PROFESSIONAL CERTIFICATION. THE STATE OF MARYLAND, LICENSE NO. EXPIRATION DATE:

LANDSCAPE ARCHITECTURE URBAN DESIGN & PLANNING

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF