

MATCH LINE - SEE DD - 34 STA. 3008 + 50.00

MATCH LINE - SEE PS - 36 STA. 3016 + 50.00

LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- ASSUMED EX. DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

GENERAL STORM DRAIN LABEL NOTES:  
 1. PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.  
 2. ATTEMPTS HAVE BEEN MADE TO UTILIZE EXISTING STORM DRAIN PIPES TO THE EXTENT PRACTICAL.  
 3. WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED IT MAY BE DETERMINED THAT THE EXISTING STORM DRAIN PIPE DOES NOT FUNCTION ADEQUATELY AND MAY NEED TO BE REPLACED.  
 4. EXISTING STORM DRAIN PIPES AND STRUCTURES TO REMAIN IN PLACE AND ONLINE WILL NEED TO BE INSPECTED AT A LATER PHASE TO DETERMINE THEIR CURRENT CONDITIONS AND MAY NEED TO BE CLEANED, REPAIRED, OR REPLACED.



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

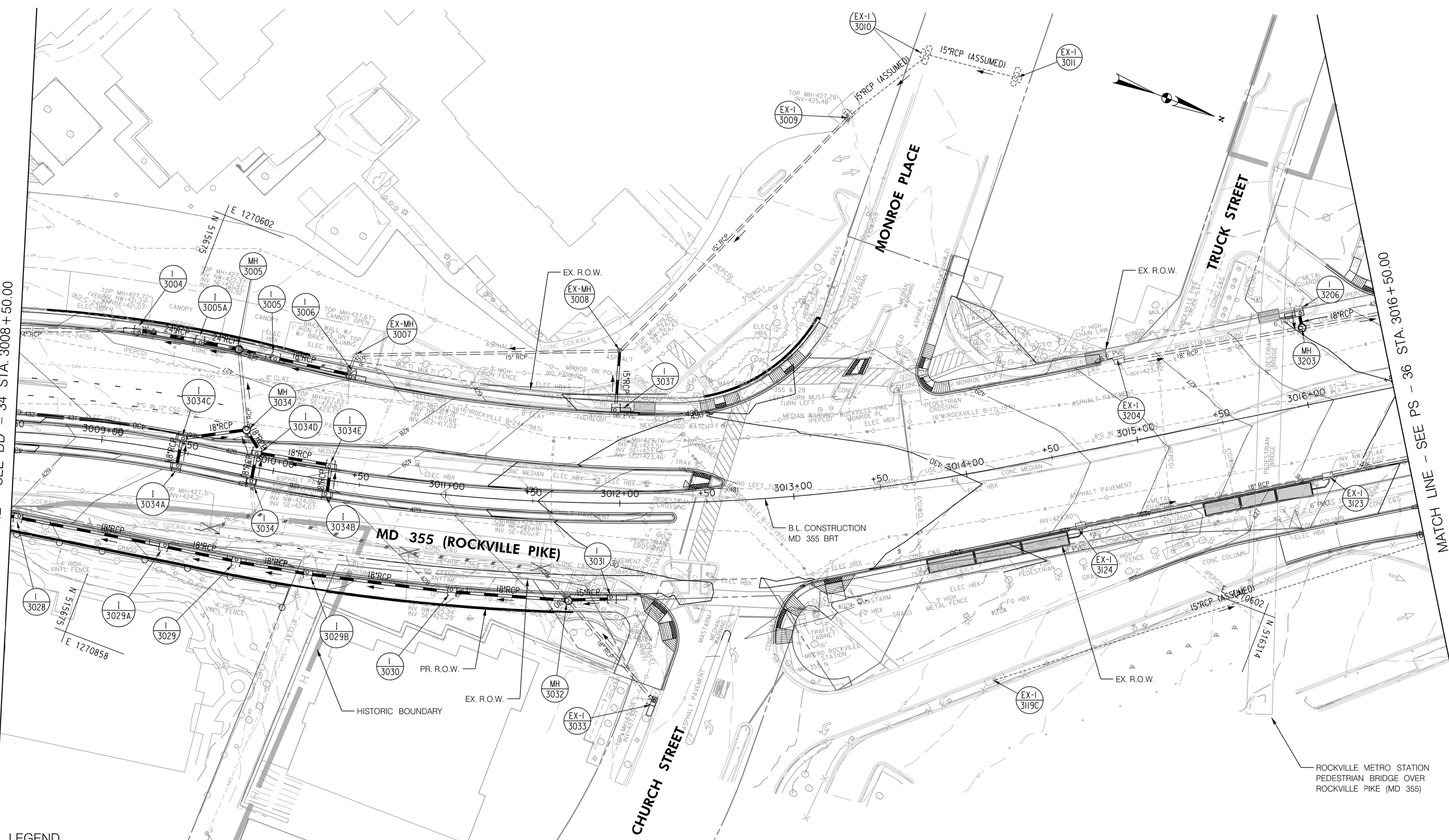
RECOMMENDED FOR APPROVAL  
 SEE TITLE SHEET FOR SIGNATURES  
 Chief, Design Section  
 APPROVED  
 SEE TITLE SHEET FOR SIGNATURES  
 Chief, Division of Transportation Engineering  
 DESIGNED BY: \_\_\_\_\_ DRAWN BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_

MD 355 BUS RAPID TRANSIT (BRT)  
 DRAINAGE PLAN  
 SEGMENT 3

SCALE : 1" = 30'  
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 443 of 887

DD-35

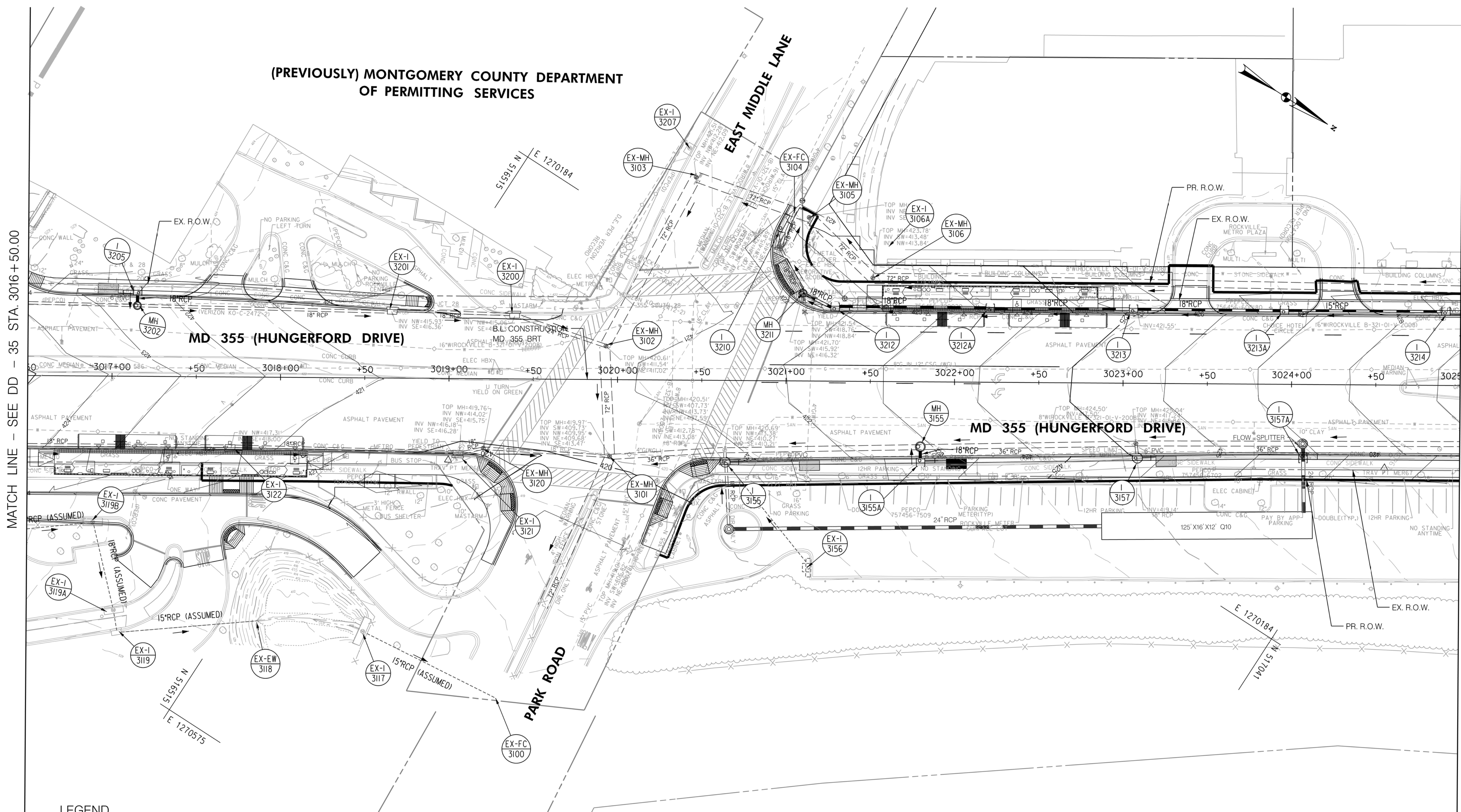




(PREVIOUSLY) MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES

MATCH LINE - SEE DD - 35 STA. 3016 + 50.00

MATCH LINE - SEE DD - 37 STA. 3025 + 00.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

GENERAL STORM DRAIN LABEL NOTES:  
 1. PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.  
 2. ATTEMPTS HAVE BEEN MADE TO UTILIZE EXISTING STORM DRAIN PIPES TO THE EXTENT PRACTICAL.  
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 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)  
 DRAINAGE PLAN  
 SEGMENT 3

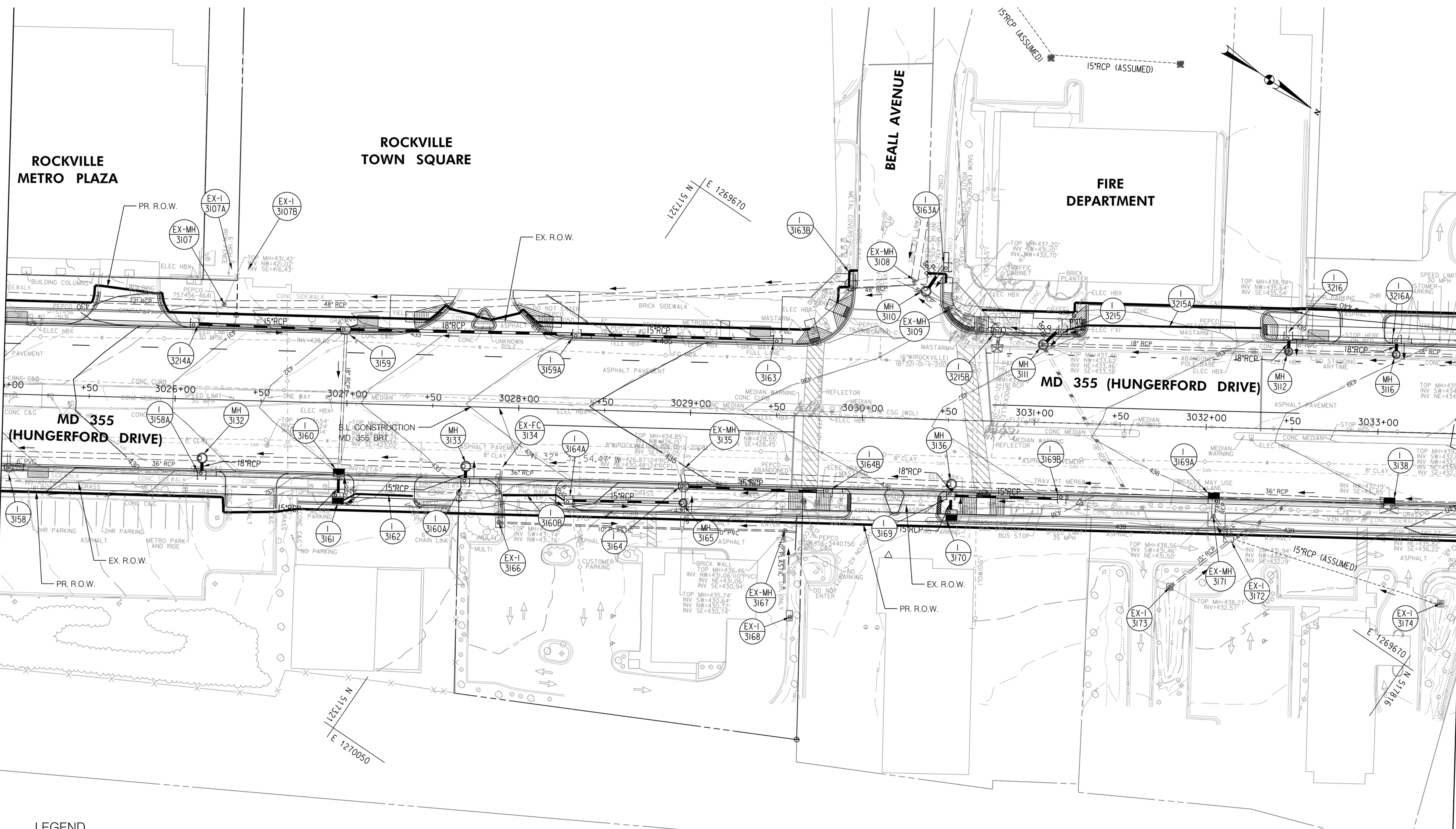
SCALE : 1" = 30'  
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 444 of 887



MATCH LINE - SEE DD - 36 STA. 3025+00.00

MATCH LINE - SEE DD - 38 STA. 3033+50.00



**LEGEND**

- |  |   |  |   |
|--|---|--|---|
|  | PROPOSED DRAINAGE STRUCTURE   |  | PROPOSED DRAINAGE PIPE                                  |
|  | EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM |  | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
|  | EXISTING DRAINAGE STRUCTURE   |  | EXISTING DRAINAGE PIPE                                  |
|  | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL                    |  | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL             |
|  | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED               |  | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED        |

**GENERAL STORM DRAIN LABEL NOTES:**  
 1. PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.  
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 LICENSE NO. \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL  
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 Chief, Design Section  
 APPROVED  
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 Chief, Division of Transportation Engineering  
 Designed by: \_\_\_\_\_ Drawn by: \_\_\_\_\_ Checked by: \_\_\_\_\_

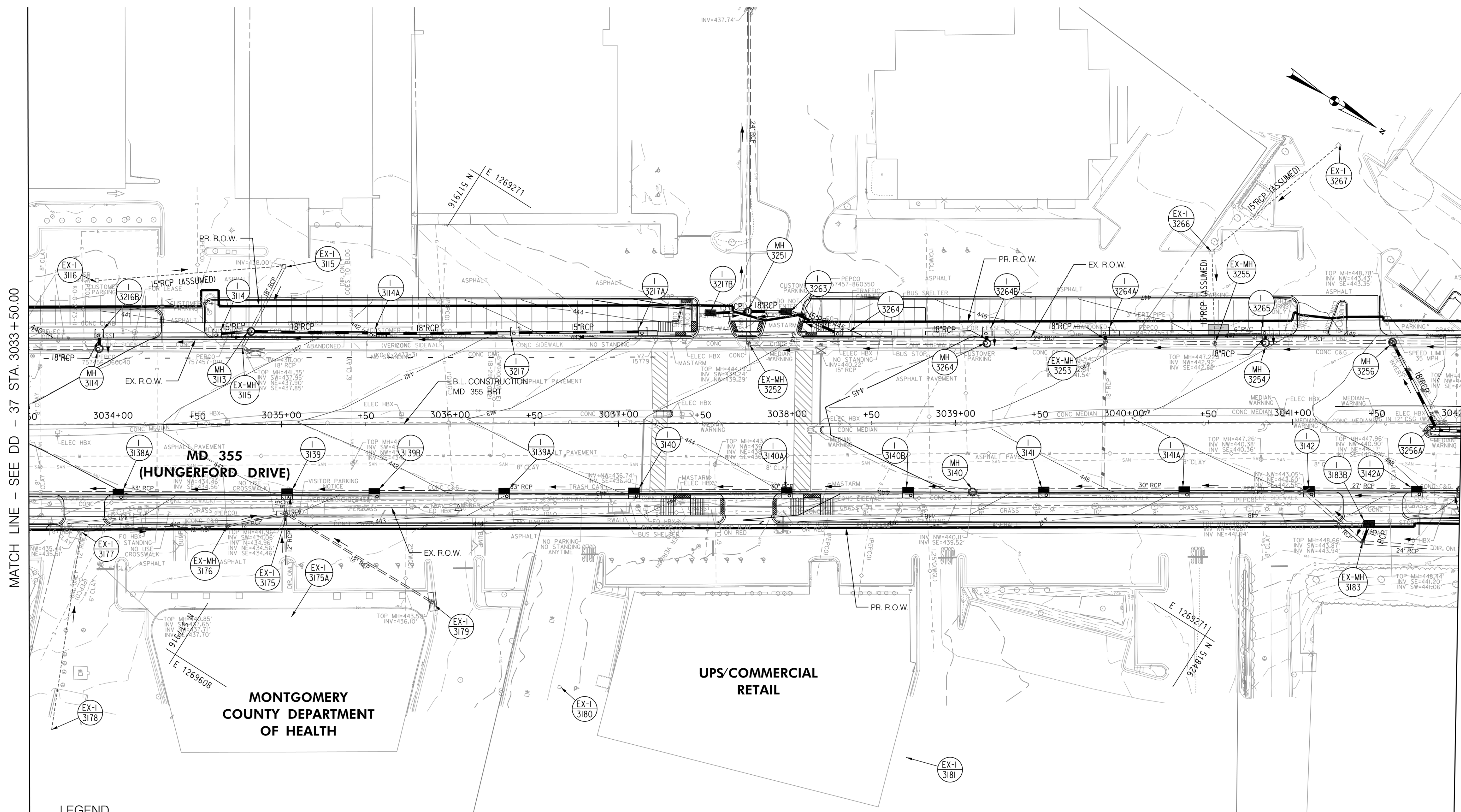
MD 355 BUS RAPID TRANSIT (BRT)  
 DRAINAGE PLAN  
 SEGMENT 3

SCALE : 1" = 30'  
 DATE : DECEMBER 2022  
 Project No. : 502005 SHEET 445 of 887



MATCH LINE - SEE DD - 37 STA. 3033 + 50.00

MATCH LINE - SEE DD - 39 STA. 3042 + 00.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED 48" RCP DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

GENERAL STORM DRAIN LABEL NOTES:  
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NO.	REVISION	DATE	BY

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

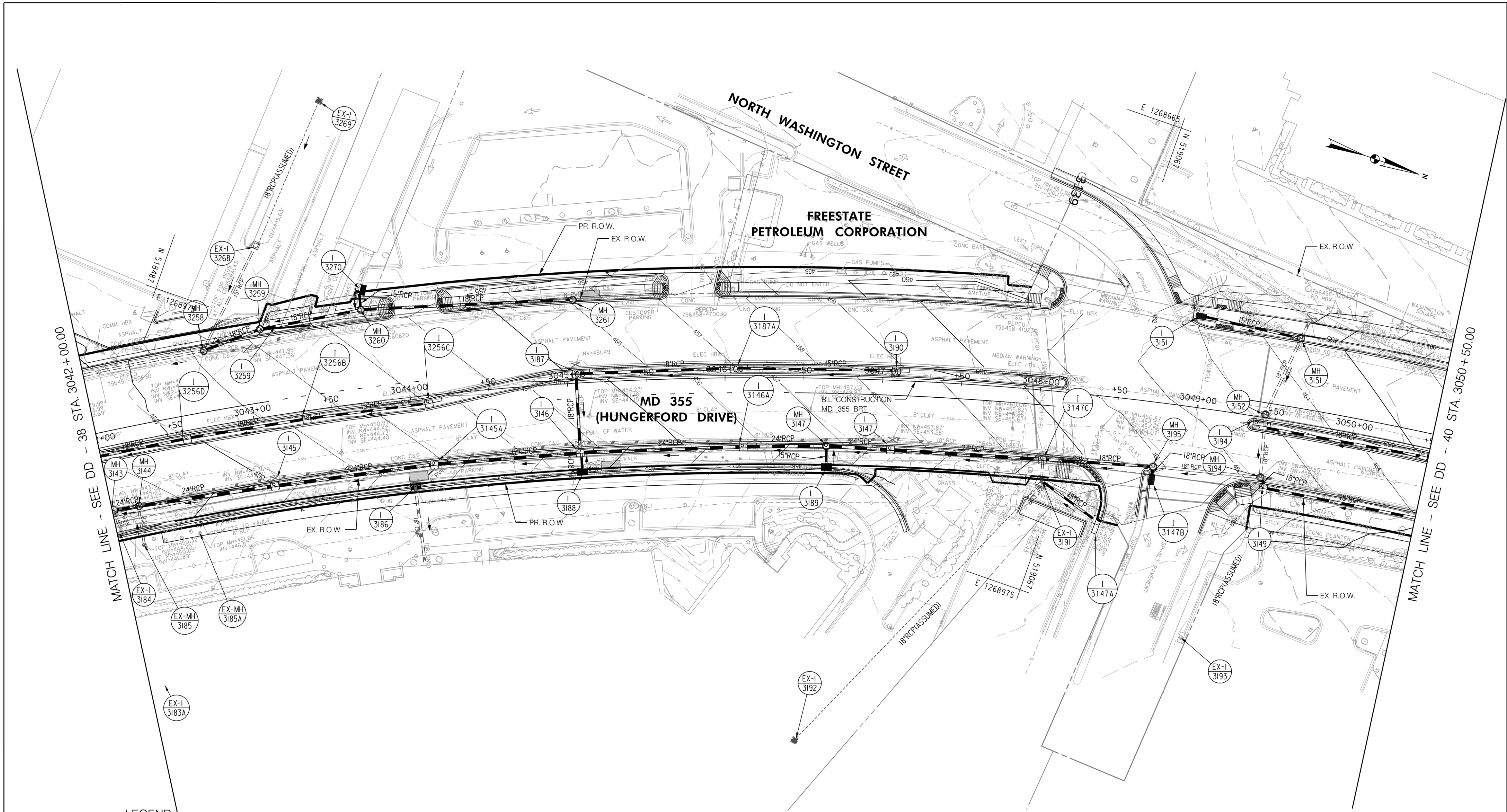
RECOMMENDED FOR APPROVAL  
 SEE TITLE SHEET FOR SIGNATURES  
 Chief, Design Section  
 Date \_\_\_\_\_  
 APPROVED  
 SEE TITLE SHEET FOR SIGNATURES  
 Chief, Division of Transportation Engineering  
 Date \_\_\_\_\_  
 Designed by: \_\_\_\_\_ Drawn by: \_\_\_\_\_ Checked by: \_\_\_\_\_

MD 355 BUS RAPID TRANSIT (BRT)  
 DRAINAGE PLAN  
 SEGMENT 3

SCALE : 1" = 30'  
 DATE : DECEMBER 2022  
 Project No. : 502005 SHEET 446 of 887

DD-38





**LEGEND**

- |  |   |  |
|--|---|--|
|  | PROPOSED DRAINAGE STRUCTURE                           |  |
|  |   |  |
|  | EXISTING DRAINAGE STRUCTURE                           |  |
|  | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL      |  |
|  | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED |  |

**GENERAL STORM DRAIN LABEL NOTES:**  
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 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)  
 DRAINAGE PLAN  
 SEGMENT 3

SCALE : 1" = 30'  
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 447 of 887





MATCH LINE - SEE DD - 39 STA. 3050 + 50.00

MATCH LINE - SEE DD - 41 STA. 3059 + 00.00

**LEGEND**

- |  |   |  |   |
|--|---|--|---|
|  | PROPOSED DRAINAGE STRUCTURE                           |  | PROPOSED DRAINAGE PIPE                                  |
|  | PROPOSED 48" RCP PIPE (ASSUMED)                       |  | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
|  | EXISTING DRAINAGE STRUCTURE                           |  | EXISTING DRAINAGE PIPE                                  |
|  | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL      |  | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL             |
|  | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED |  | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED        |

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

NO.	REVISION	DATE	BY

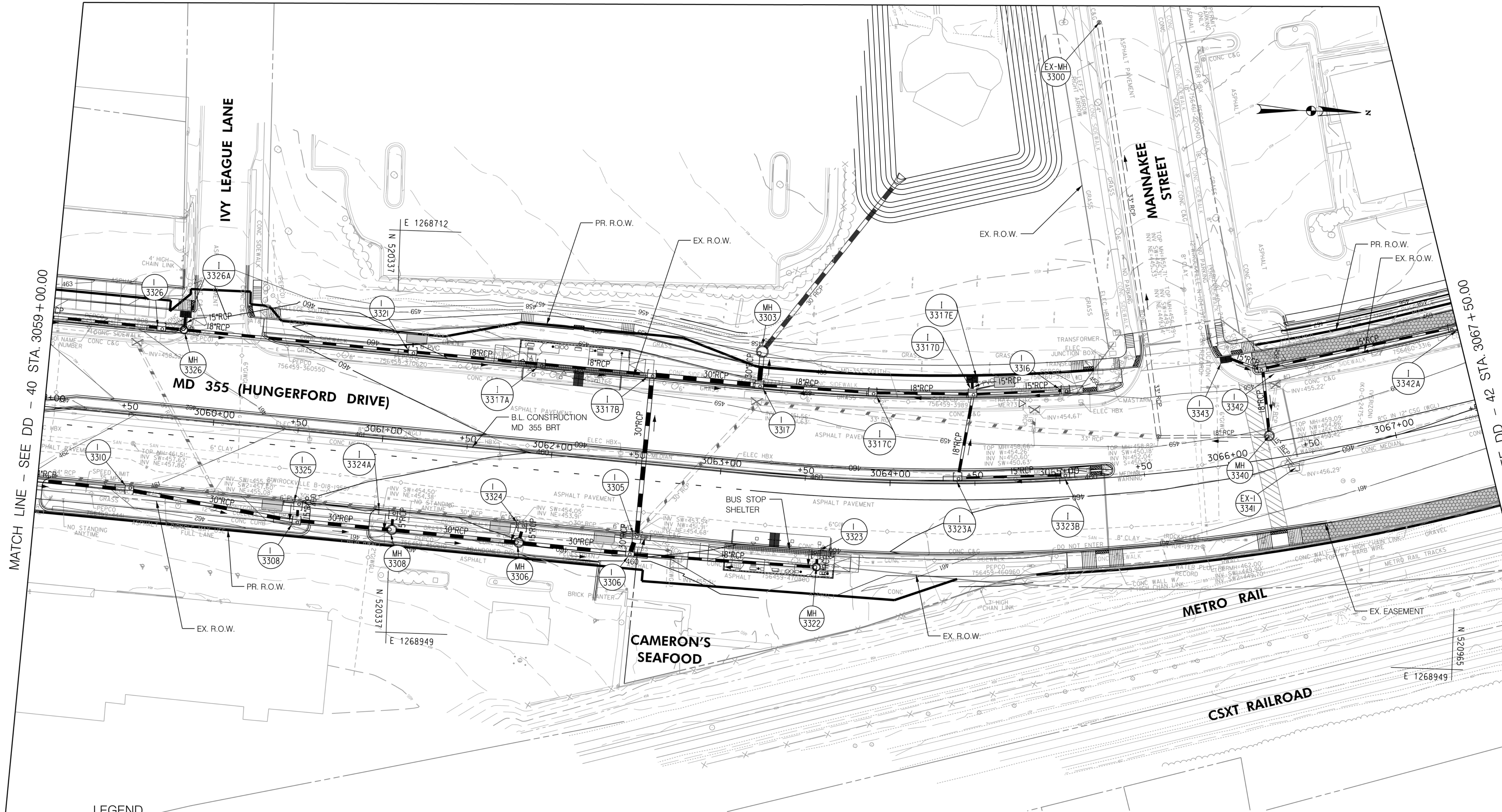
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
 GAITHERSBURG, MARYLAND

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)  
 DRAINAGE PLAN  
 SEGMENT 3

SCALE : 1" = 30'  
 DATE : DECEMBER 2022  
 Project No. : 502005 SHEET 448 of 887





MATCH LINE - SEE DD - 40 STA. 3059 + 00.00

MATCH LINE - SEE DD - 42 STA. 3067 + 50.00

**LEGEND**

- |  |   |  |   |
|--|---|--|---|
|  | PROPOSED DRAINAGE STRUCTURE   |  | PROPOSED DRAINAGE PIPE                                  |
|  | EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM |  | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
|  | EXISTING DRAINAGE STRUCTURE   |  | EXISTING DRAINAGE PIPE                                  |
|  | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL                    |  | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL             |
|  | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED               |  | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED        |

**GENERAL STORM DRAIN LABEL NOTES:**  
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 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

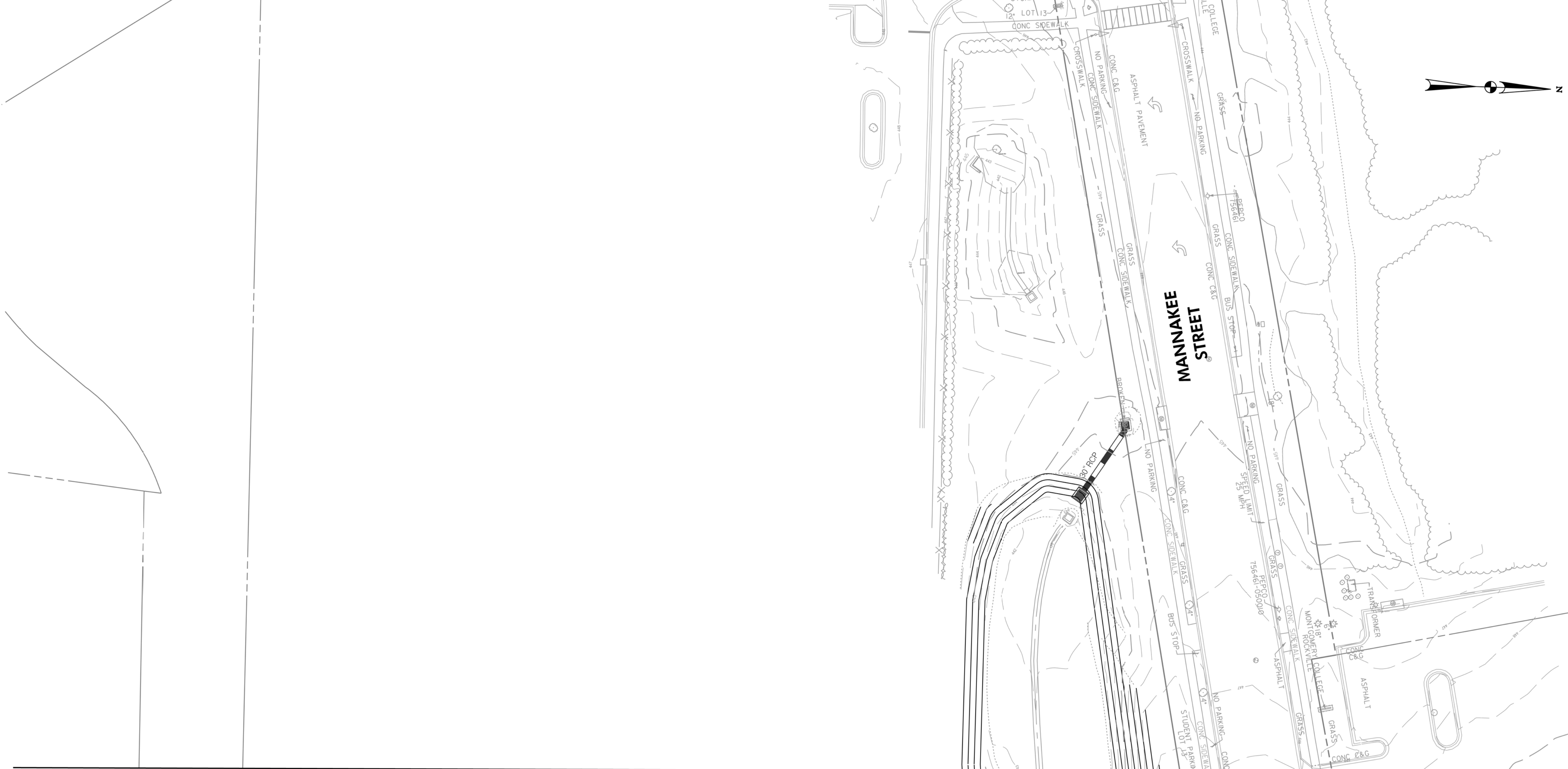
Designed by: \_\_\_\_\_ Drawn by: \_\_\_\_\_ Checked by: \_\_\_\_\_

MD 355 BUS RAPID TRANSIT (BRT)  
 DRAINAGE PLAN  
 SEGMENT 3

SCALE : 1" = 30'  
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 449 of 887





MATCH LINE - SEE DD - 41

**LEGEND**

	PROPOSED DRAINAGE STRUCTURE		PROPOSED DRAINAGE PIPE
	EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM		ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
	EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL		EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
	EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED		EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

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 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: \_\_\_\_\_

DD-41A

MD 355 BUS RAPID TRANSIT (BRT)

DRAINAGE PLAN  
 SEGMENT 3

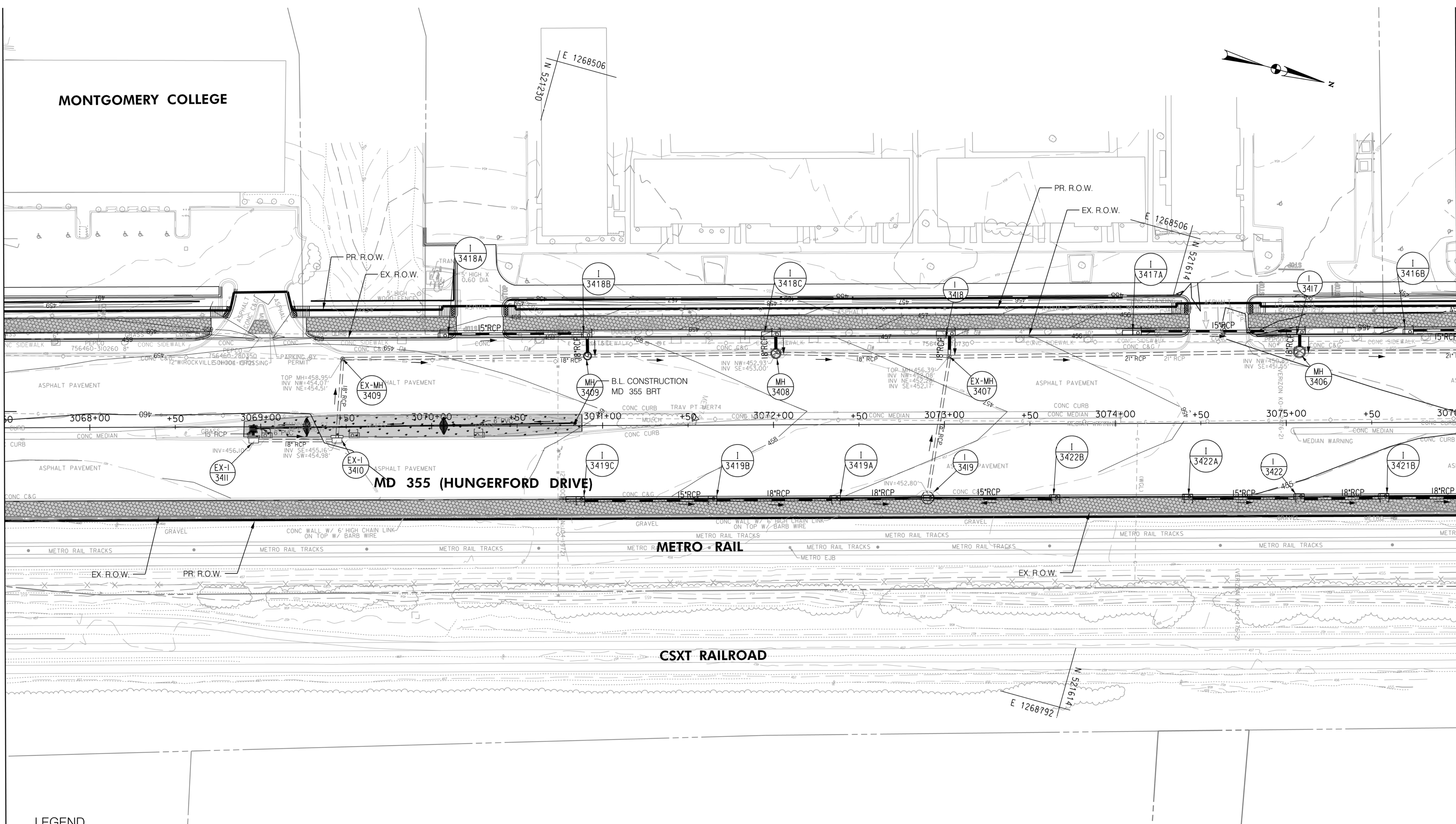
SCALE : 1" = 30'  
 DATE : DECEMBER 2022

Project No. : 502005  
 SHEET 450 of 887



MATCH LINE - SEE DD - 41 STA. 3067 + 50.00

MATCH LINE - SEE DD - 43 STA. 3076 + 00.00



**LEGEND**

- PROPOSED DRAINAGE STRUCTURE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

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 Chief, Division of Transportation Engineering  
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MD 355 BUS RAPID TRANSIT (BRT)

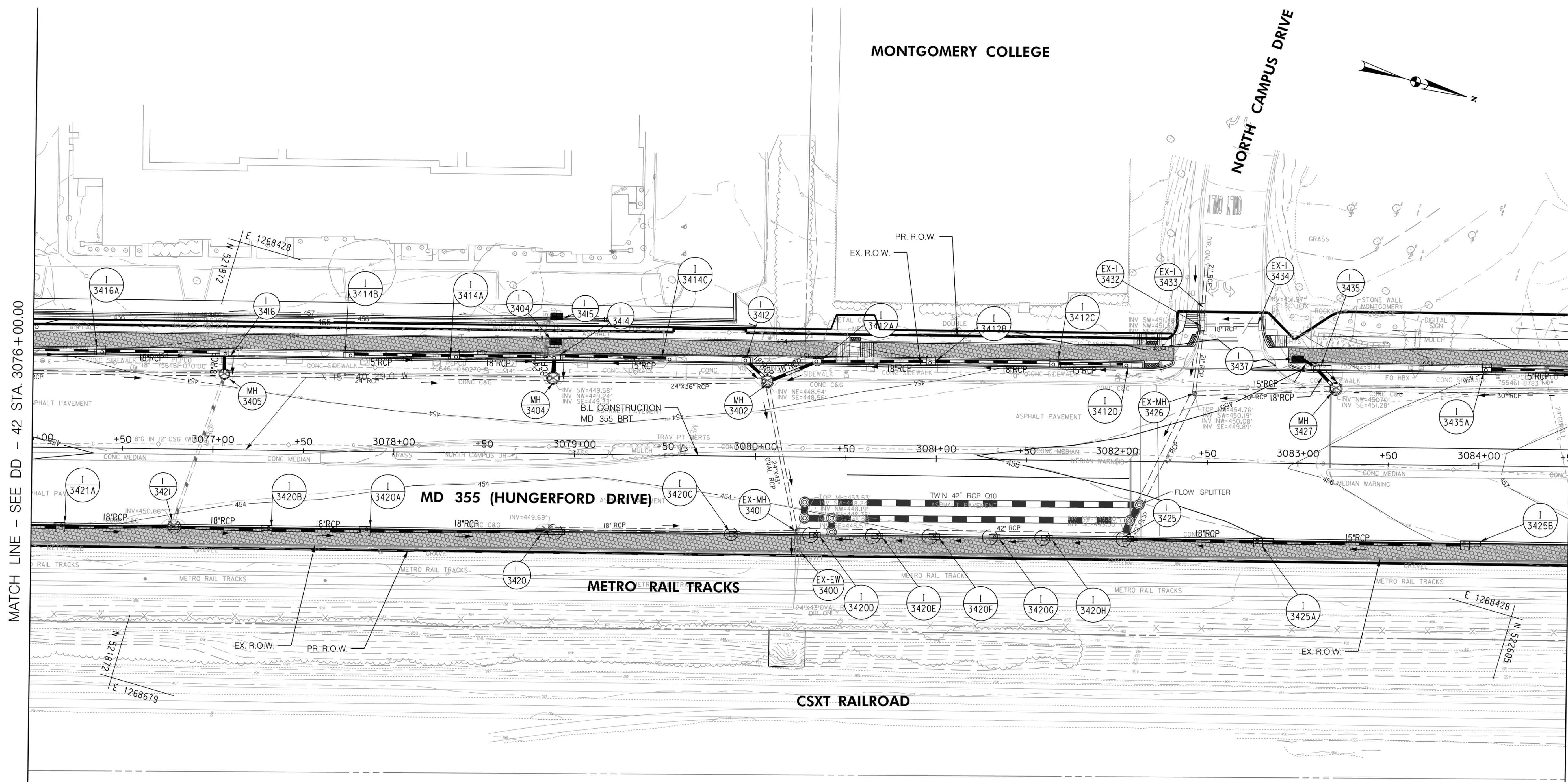
**DRAINAGE PLAN**  
 SEGMENT 3

SCALE : 1" = 30'  
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 451 of 887

DD-42



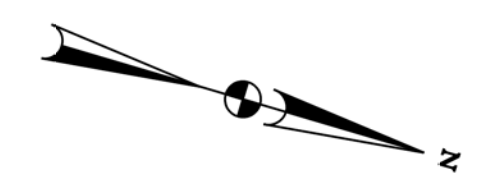


MATCH LINE - SEE DD - 42 STA. 3076 + 00.00

MATCH LINE - SEE DD - 44 STA. 3084 + 50.00

MONTGOMERY COLLEGE

NORTH CAMPUS DRIVE



**LEGEND**

- |  |   |  |   |
|--|---|--|---|
|  | PROPOSED DRAINAGE STRUCTURE   |  | PROPOSED DRAINAGE PIPE                                  |
|  | EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM |  | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
|  | EXISTING DRAINAGE STRUCTURE   |  | EXISTING DRAINAGE PIPE                                  |
|  | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL                    |  | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL             |
|  | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED               |  | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED        |

**GENERAL STORM DRAIN LABEL NOTES:**  
 1. PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.  
 2. ATTEMPTS HAVE BEEN MADE TO UTILIZE EXISTING STORM DRAIN PIPES TO THE EXTENT PRACTICAL.  
 3. WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED IT MAY BE DETERMINED THAT THE EXISTING STORM DRAIN PIPE DOES NOT FUNCTION ADEQUATELY AND MAY NEED TO BE REPLACED.  
 4. EXISTING STORM DRAIN PIPES AND STRUCTURES TO REMAIN IN PLACE AND ONLINE WILL NEED TO BE INSPECTED AT A LATER PHASE TO DETERMINE THEIR CURRENT CONDITIONS AND MAY NEED TO BE CLEANED, REPAIRED, OR REPLACED.



**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)

**DRAINAGE PLAN**  
 SEGMENT 3

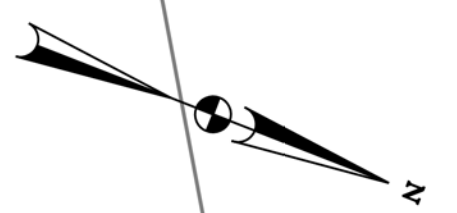
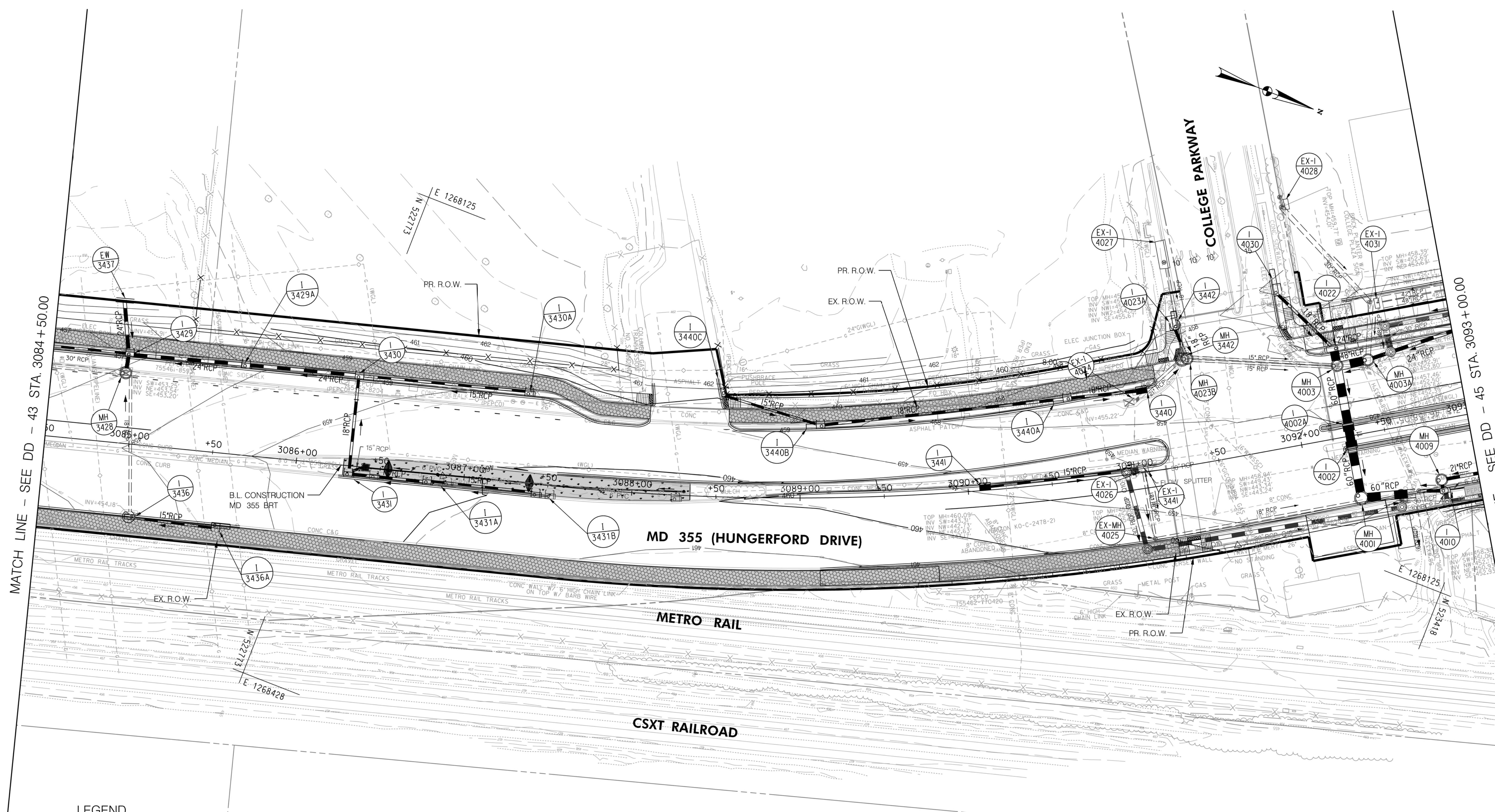
SCALE : 1" = 30'  
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 452 of 887



MATCH LINE - SEE DD - 43 STA. 3084 + 50.00

MATCH LINE - SEE DD - 45 STA. 3093 + 00.00



**LEGEND**

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED

**GENERAL STORM DRAIN LABEL NOTES:**  
 1. PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.  
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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION  
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 GAITHERSBURG, MARYLAND

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 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)  
 DRAINAGE PLAN  
 SEGMENT 3

SCALE : 1" = 30'  
 DATE : DECEMBER 2022

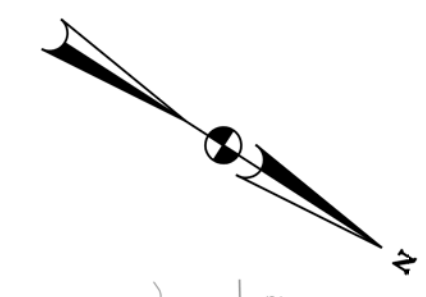
Project No. : 502005  
 SHEET 453 of 887



MATCH LINE - SEE DD - 44 STA. 3093+00.00

MATCH LINE - SEE DD - 46 STA. 4007+50.00

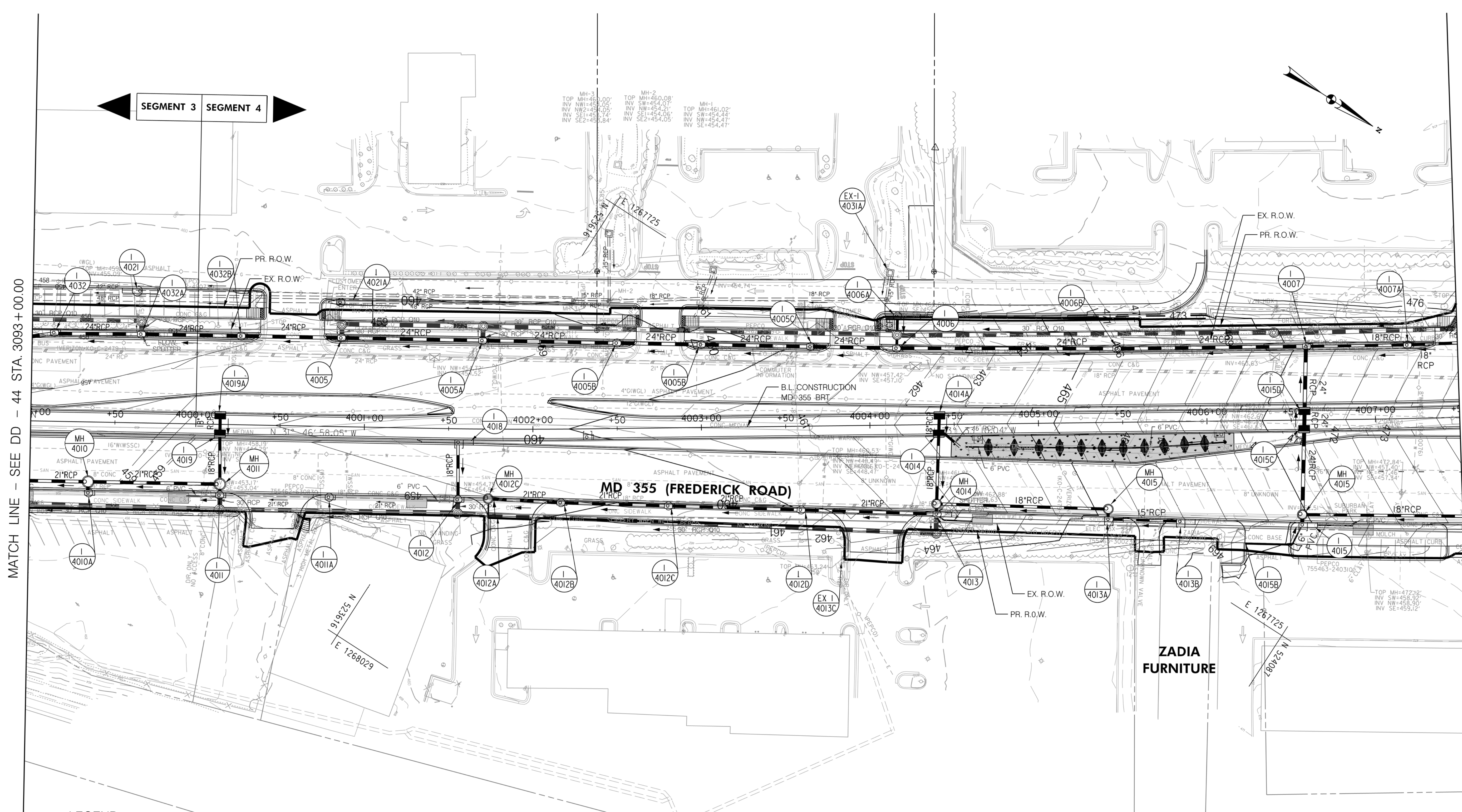
SEGMENT 3    SEGMENT 4



MH-3  
TOP MH=460.00'  
INV NW=451.05'  
INV SW=451.05'  
INV SE=451.74'  
INV SE2=453.84'

MH-2  
TOP MH=450.08'  
INV SW=454.21'  
INV SE=454.06'  
INV SE2=454.05'

MH-1  
TOP MH=461.02'  
INV SW=454.44'  
INV NW=454.47'  
INV SE=454.47'



**LEGEND**

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
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**Stantec**  
 6110 FROST PLACE,  
 LAUREL, MARYLAND 20707  
 (301) 982-2800  
 www.stantec.com

PROFESSIONAL CERTIFICATION:  
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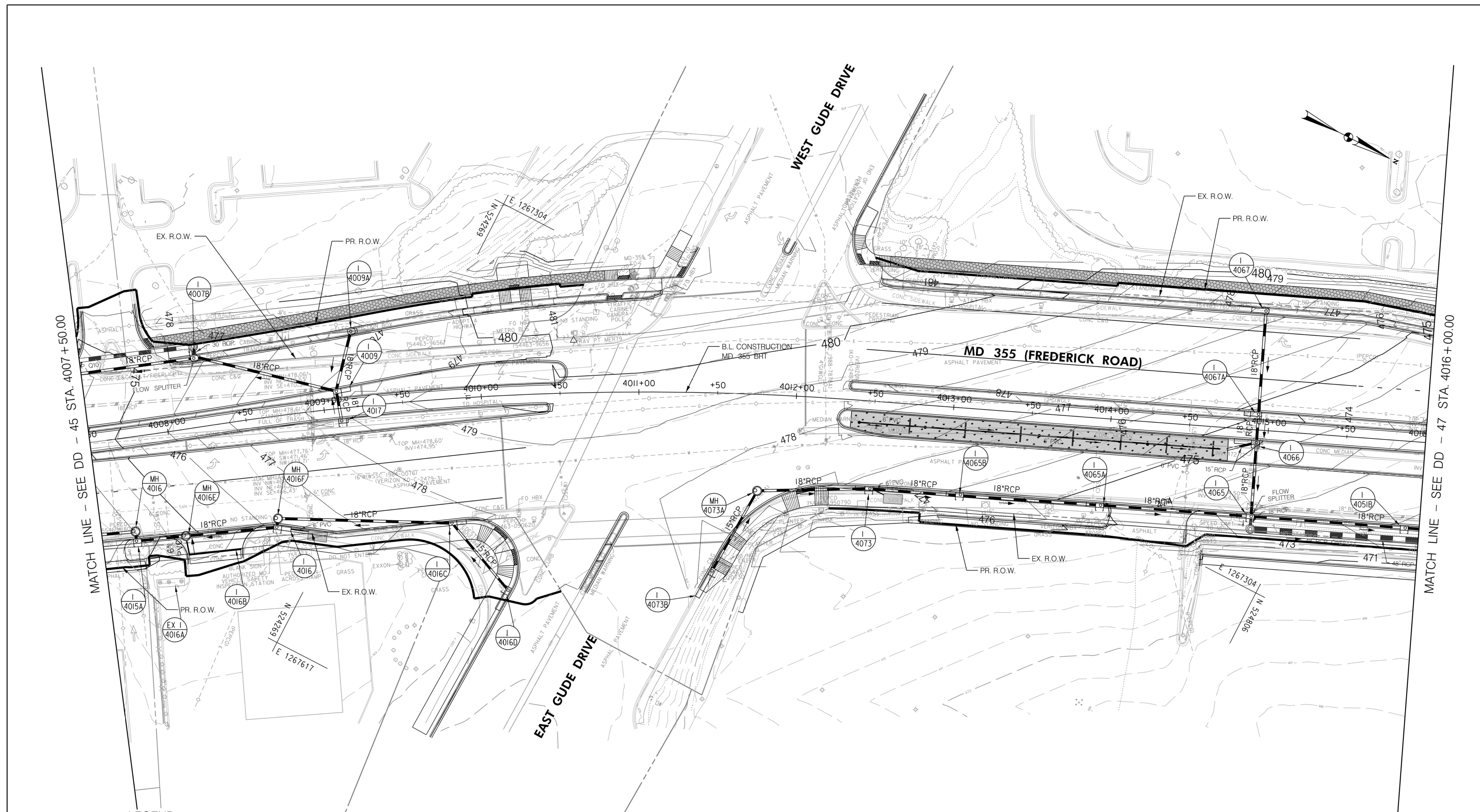
NO.	REVISION	DATE	BY

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)  
 DRAINAGE PLAN  
 SEGMENT 3 - SEGMENT 4  
 SCALE : 1" = 30'  
 DATE : DECEMBER 2022  
 Project No. : 502005 SHEET 454 of 887





MATCH LINE - SEE DD - 45 STA. 4007 + 50.00

MATCH LINE - SEE DD - 47 STA. 4016 + 00.00

**LEGEND**

- |  |   |  |   |
|--|---|--|---|
|  | PROPOSED DRAINAGE STRUCTURE                           |  | PROPOSED DRAINAGE PIPE                                  |
|  | EXISTING DRAINAGE STRUCTURE                           |  | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
|  | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL      |  | EXISTING DRAINAGE PIPE                                  |
|  | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED |  | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL             |
|  |   |  | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED        |

**GENERAL STORM DRAIN LABEL NOTES:**  
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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
 GAITHERSBURG, MARYLAND

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 Chief, Design Section  
 APPROVED  
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 Chief, Division of Transportation Engineering  
 Designed by: \_\_\_\_\_ Drawn by: \_\_\_\_\_ Checked by: \_\_\_\_\_

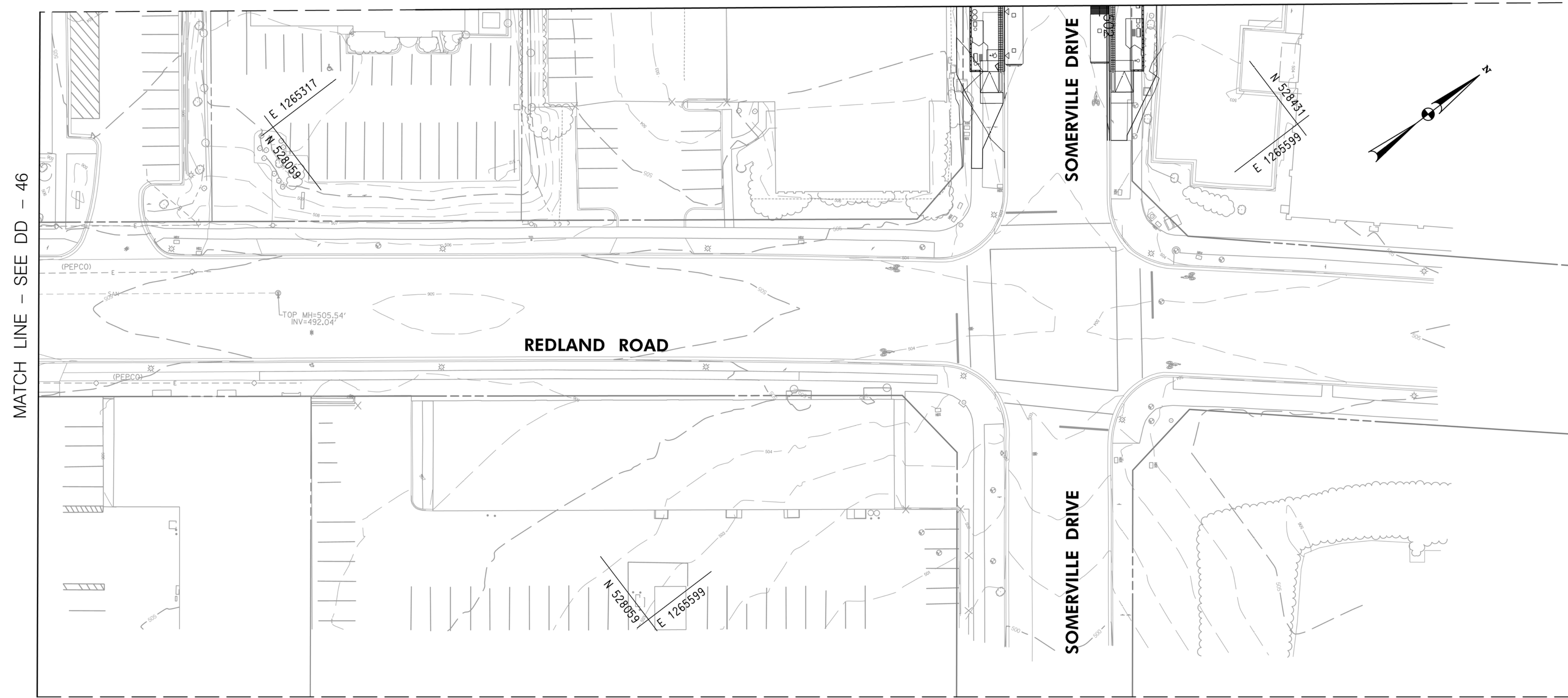
MD 355 BUS RAPID TRANSIT (BRT)  
 DRAINAGE PLAN  
 SEGMENT 4

SCALE : 1" = 30'  
 DATE : DECEMBER 2022  
 Project No. : 502005 SHEET 455 of 887



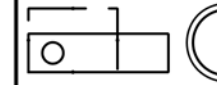
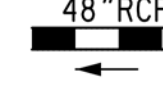



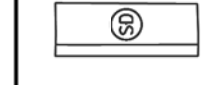
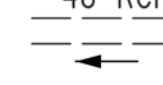
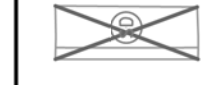

NOTE: NO ROADWAY AND DRAINAGE PROPOSED ON THIS SHEET.  
SHEETS INTEND TO SHOW BRT ROUTES.

MATCH LINE - SEE DD - 46B



MATCH LINE - SEE DD - 46

**LEGEND**

-  PROPOSED DRAINAGE STRUCTURE
-  48" RCP PROPOSED DRAINAGE PIPE
-  48" RCP (ASSUMED) ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
-  EXISTING DRAINAGE STRUCTURE
-  48" RCP EXISTING DRAINAGE PIPE
-  EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
-  48" RCP EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
-  EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
-  48" RCP EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

**GENERAL STORM DRAIN LABEL NOTES:**

1. PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.
2. ATTEMPTS HAVE BEEN MADE TO UTILIZE EXISTING STORM DRAIN PIPES TO THE EXTENT PRACTICAL.
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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 : \_\_\_\_\_

DD-46A

MD 355 BUS RAPID TRANSIT (BRT)

**DRAINAGE PLAN  
SEGMENT 4**

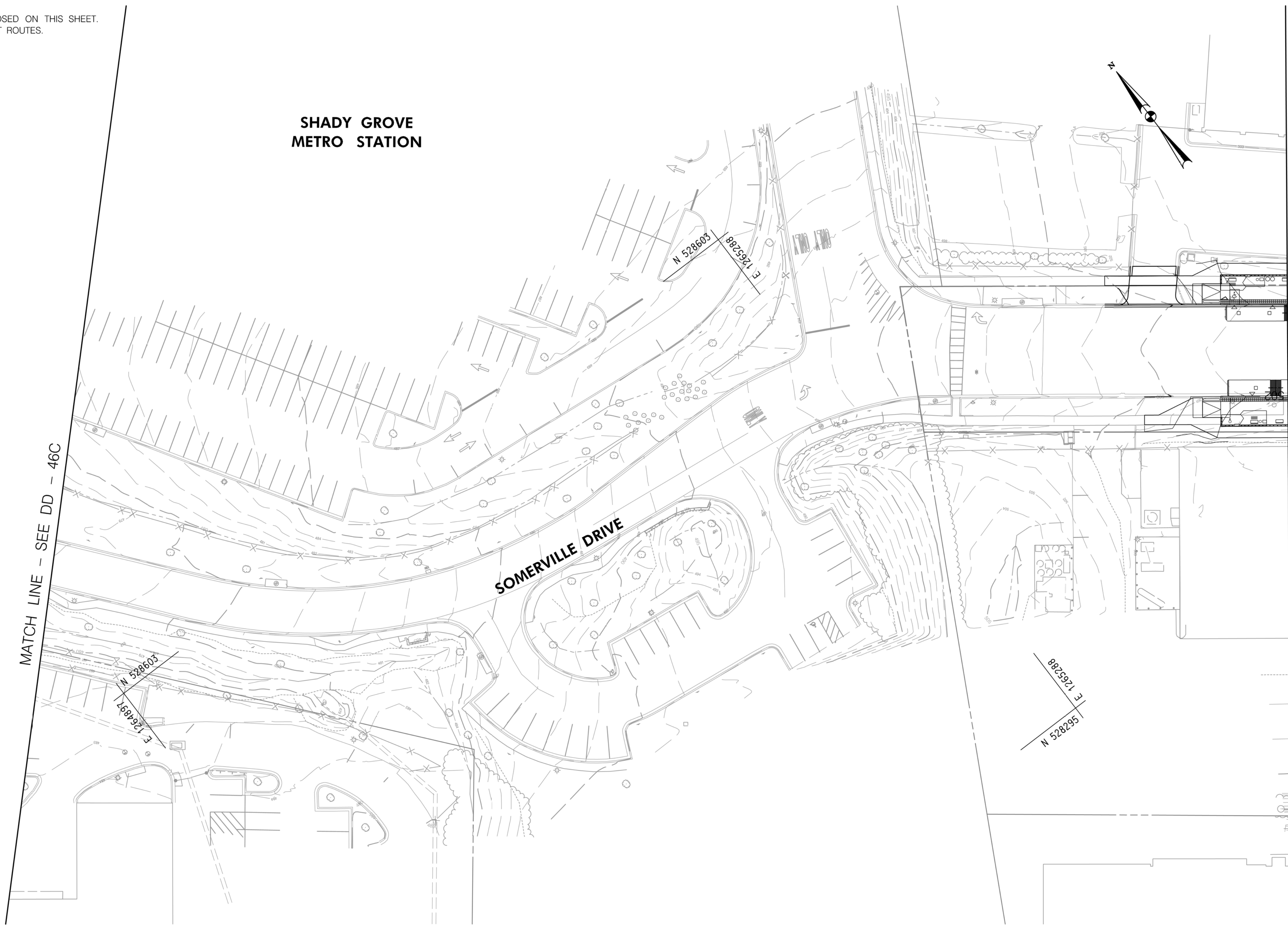
SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 456 of 887



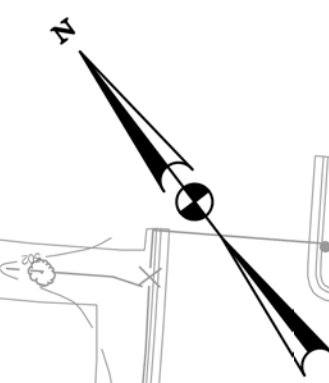
NOTE: NO ROADWAY AND DRAINAGE PROPOSED ON THIS SHEET. SHEETS INTEND TO SHOW BRT ROUTES.

### SHADY GROVE METRO STATION



MATCH LINE - SEE DD - 46C

MATCH LINE - SEE DD - 46A



#### LEGEND

- |  |   |  |   |
|--|---|--|---|
|  | PROPOSED DRAINAGE STRUCTURE   |  | PROPOSED DRAINAGE PIPE                                  |
|  | EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM |  | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
|  | EXISTING DRAINAGE STRUCTURE   |  | EXISTING DRAINAGE PIPE                                  |
|  | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL                    |  | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL             |
|  | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED               |  | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED        |

#### GENERAL STORM DRAIN LABEL NOTES:

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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)

DRAINAGE PLAN  
SEGMENT 4

SCALE : 1" = 30'

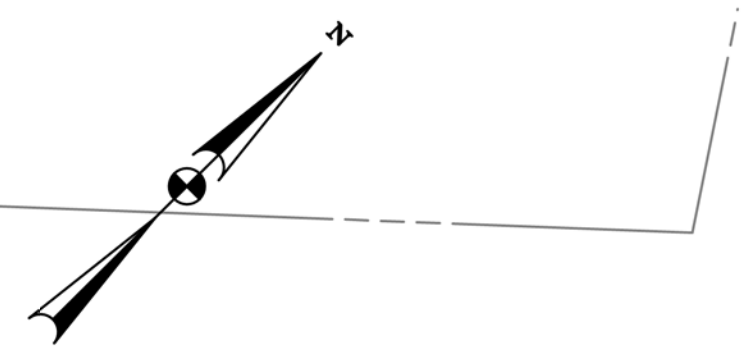
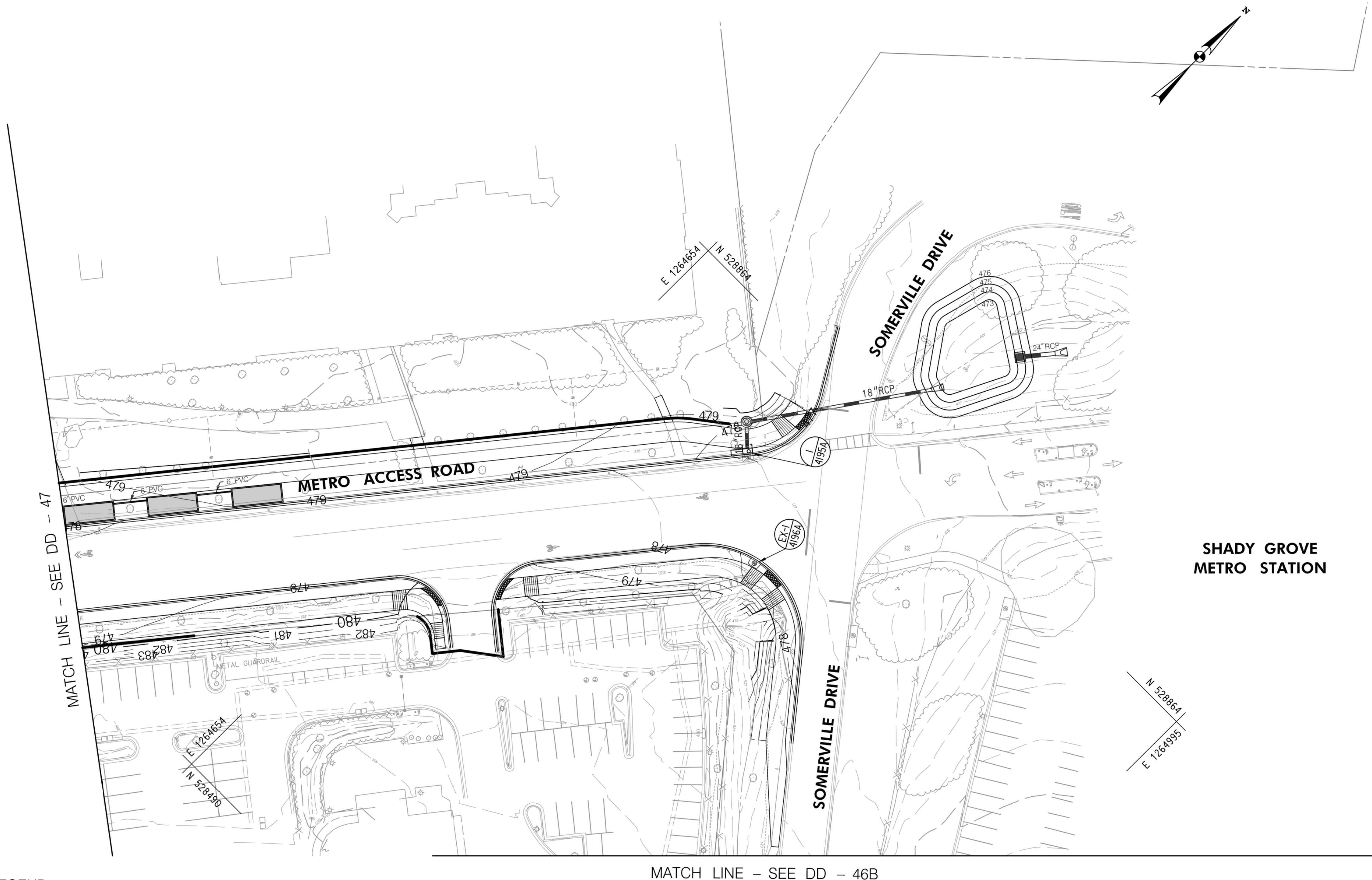
DATE : DECEMBER 2022

Project No. : 502005 SHEET 457 of 887

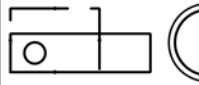
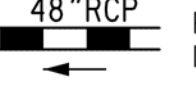




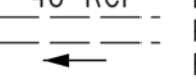
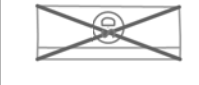

DD-46B



NOTE: NO ROADWAY AND DRAINAGE PROPOSED ON THIS SHEET.  
SHEETS INTEND TO SHOW BRT ROUTES.



**LEGEND**

-  PROPOSED DRAINAGE STRUCTURE
-  PROPOSED DRAINAGE PIPE
-  ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
-  EXISTING DRAINAGE STRUCTURE
-  EXISTING DRAINAGE PIPE
-  EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
-  EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
-  EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
-  EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION  
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 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 : \_\_\_\_\_

DD-46C

MD 355 BUS RAPID TRANSIT (BRT)

DRAINAGE PLAN  
 SEGMENT 4

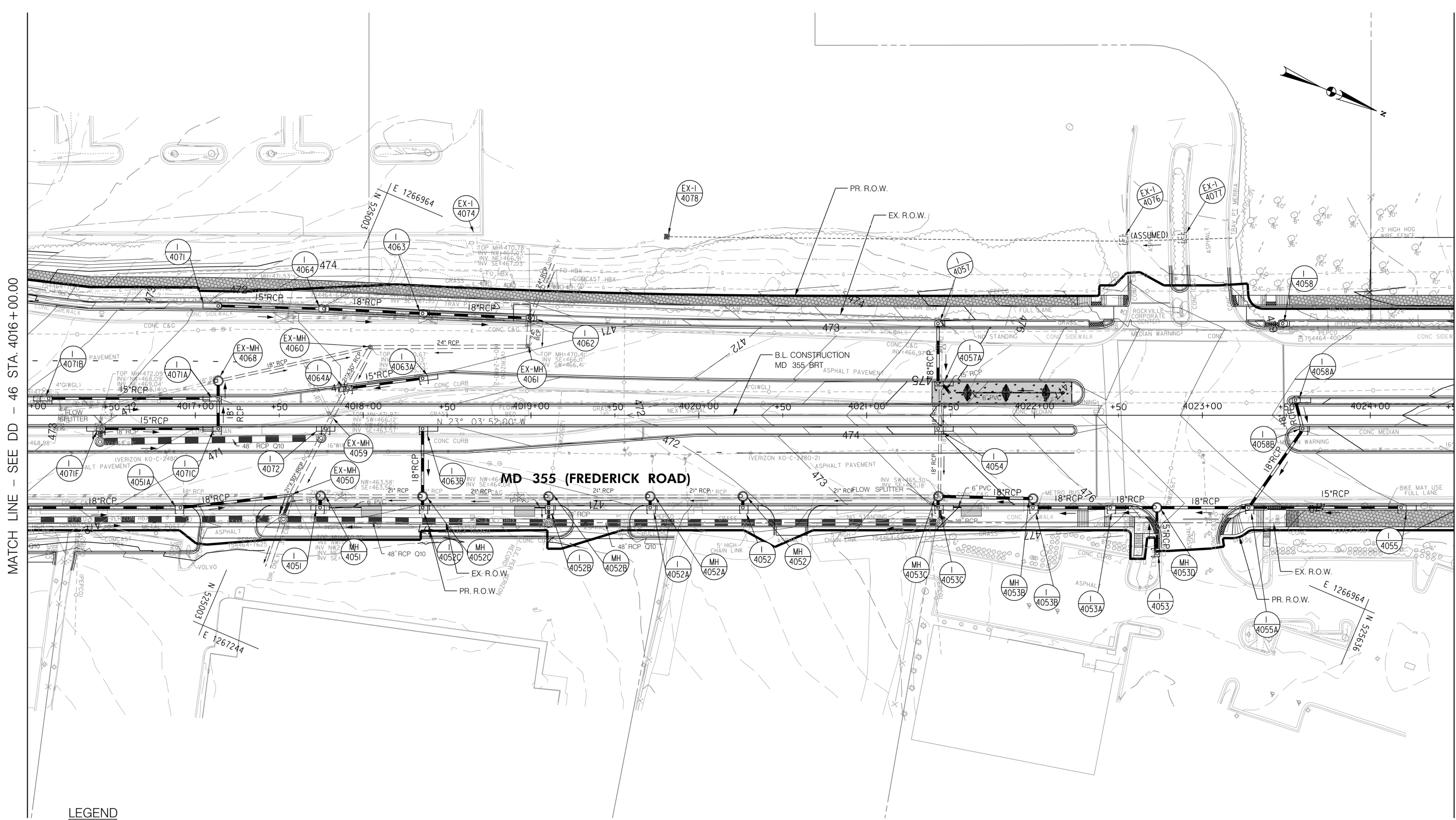
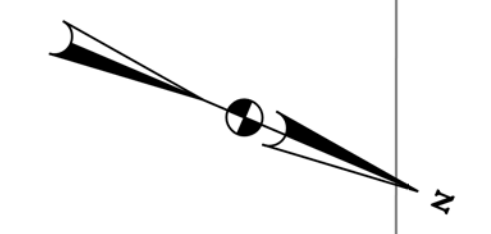
SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 458 of 887



MATCH LINE - SEE DD - 46 STA. 4016+00.00

MATCH LINE - SEE DD - 48 STA. 4024+50.00



**LEGEND**

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
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NO.	REVISION	DATE	BY

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 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)**

**DRAINAGE PLAN**  
 SEGMENT 4

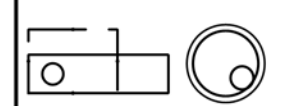

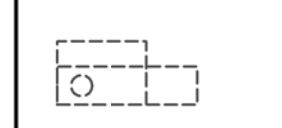



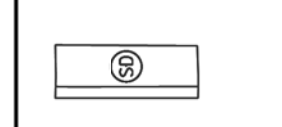
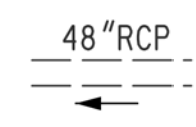


SCALE : 1" = 30'  
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 459 of 887



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**LEGEND**

	PROPOSED DRAINAGE STRUCTURE		PROPOSED DRAINAGE PIPE
	EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM		ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
	EXISTING DRAINAGE STRUCTURE		EXISTING DRAINAGE PIPE
	EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL		EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
	EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED		EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

**GENERAL STORM DRAIN LABEL NOTES:**

1. PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.
2. ATTEMPTS HAVE BEEN MADE TO UTILIZE EXISTING STORM DRAIN PIPES TO THE EXTENT PRACTICAL.
3. WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED IT MAY BE DETERMINED THAT THE EXISTING STORM DRAIN PIPE DOES NOT FUNCTION ADEQUATELY AND MAY NEED TO BE REPLACED.
4. EXISTING STORM DRAIN PIPES AND STRUCTURES TO REMAIN IN PLACE AND ONLINE WILL NEED TO BE INSPECTED AT A LATER PHASE TO DETERMINE THEIR CURRENT CONDITIONS AND MAY NEED TO BE CLEANED, REPAIRED, OR REPLACED.



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 : \_\_\_\_\_

PS-47A

MD 355 BUS RAPID TRANSIT (BRT)

DRAINAGE PLAN

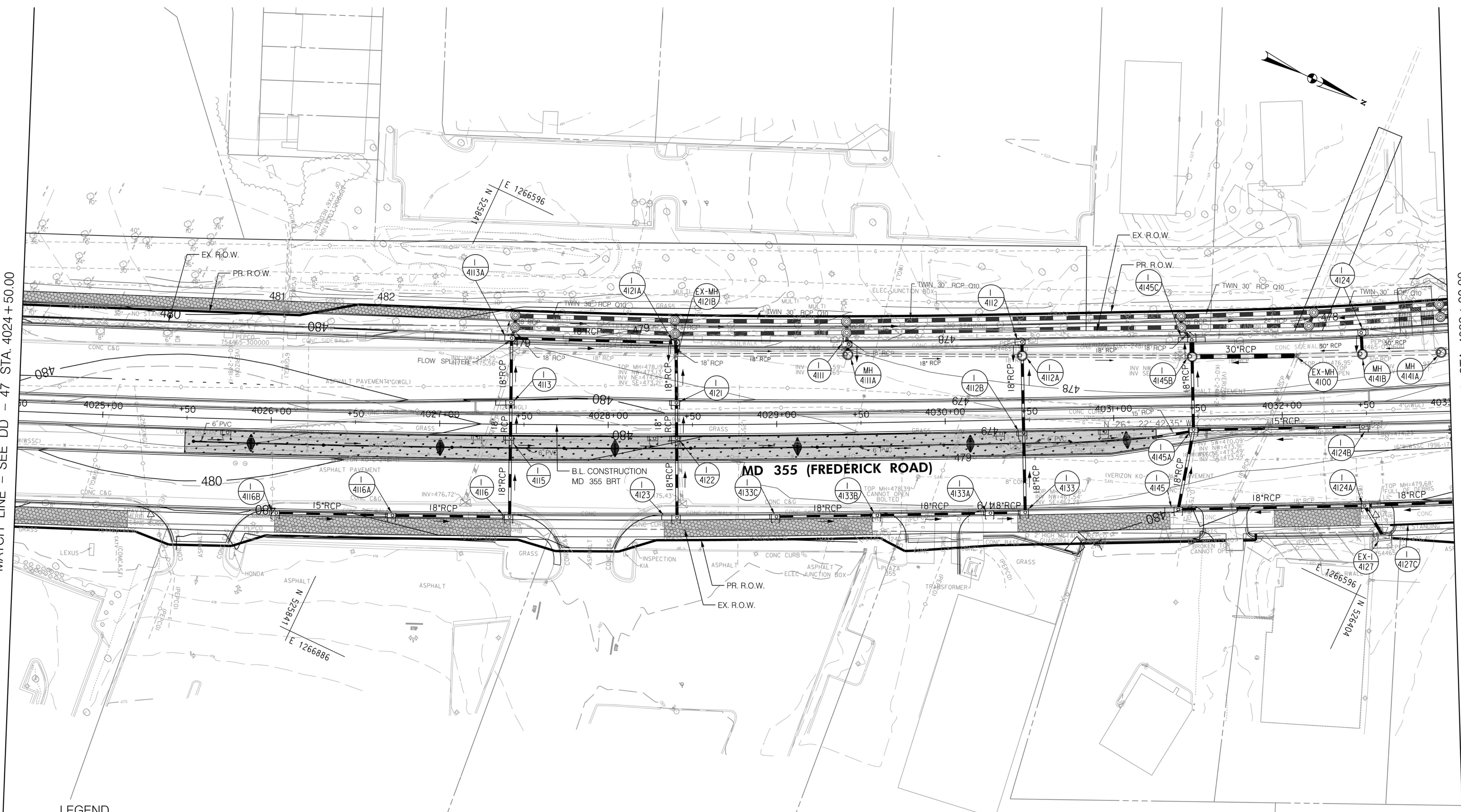
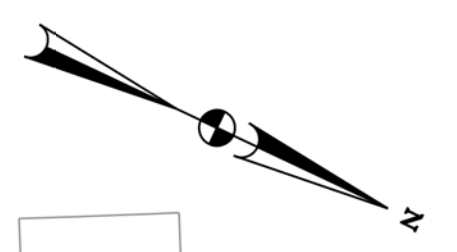
SCALE : 1" = 30'      DATE : DECEMBER 2022

Project No. : 502005      SHEET 460 of 887



MATCH LINE - SEE DD - 47 STA. 4024 + 50.00

MATCH LINE - SEE DD - 49 STA. 4033 + 00.00



**LEGEND**

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

**GENERAL STORM DRAIN LABEL NOTES:**  
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 LICENSE NO. \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_

NO.	REVISION	DATE	BY

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

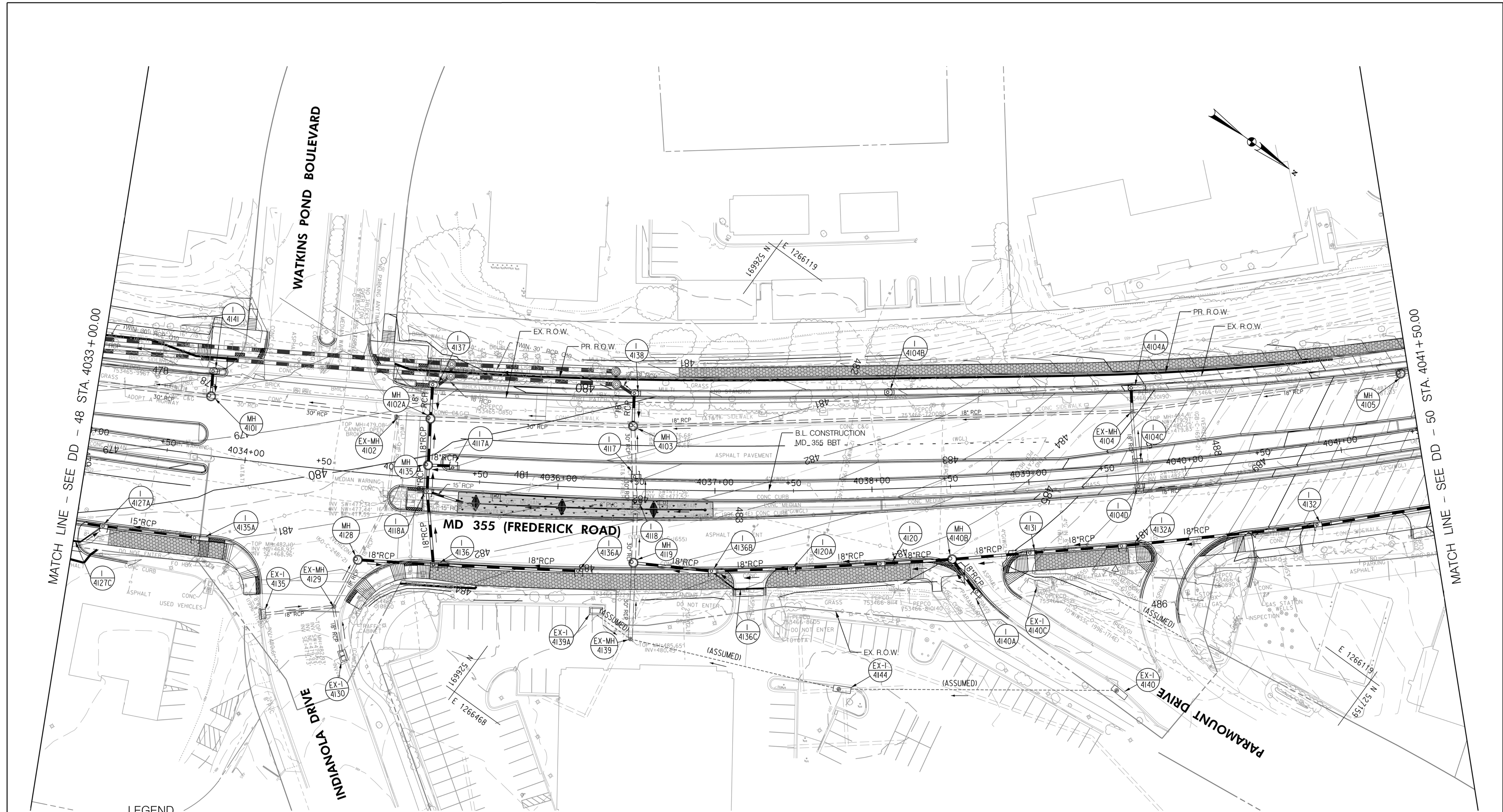
RECOMMENDED FOR APPROVAL  
 SEE TITLE SHEET FOR SIGNATURES  
 Chief, Design Section  
 APPROVED  
 SEE TITLE SHEET FOR SIGNATURES  
 Chief, Division of Transportation Engineering  
 Designed by: \_\_\_\_\_ Drawn by: \_\_\_\_\_ Checked by: \_\_\_\_\_

**MD 355 BUS RAPID TRANSIT (BRT)**

**DRAINAGE PLAN**  
 SEGMENT 4

SCALE : 1" = 30'  
 DATE : DECEMBER 2022  
 Project No. : 502005 SHEET 461 of 887





MATCH LINE - SEE DD - 48 STA. 4033+00.00

MATCH LINE - SEE DD - 50 STA. 4041+50.00

**LEGEND**

- |  |   |  |   |
|--|---|--|---|
|  | PROPOSED DRAINAGE STRUCTURE                           |  | PROPOSED 48" RCP PIPE                                   |
|  | EXISTING DRAINAGE STRUCTURE                           |  | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
|  | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL      |  | EXISTING DRAINAGE PIPE                                  |
|  | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED |  | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL             |
|  |   |  | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED        |

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NO.	REVISION	DATE	BY

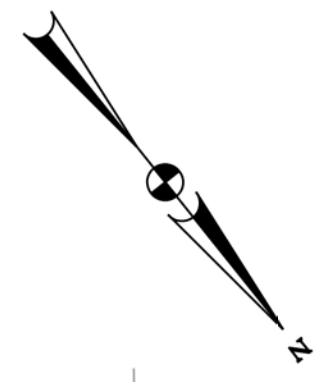
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
 GAITHERSBURG, MARYLAND

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)  
 DRAINAGE PLAN  
 SEGMENT 4

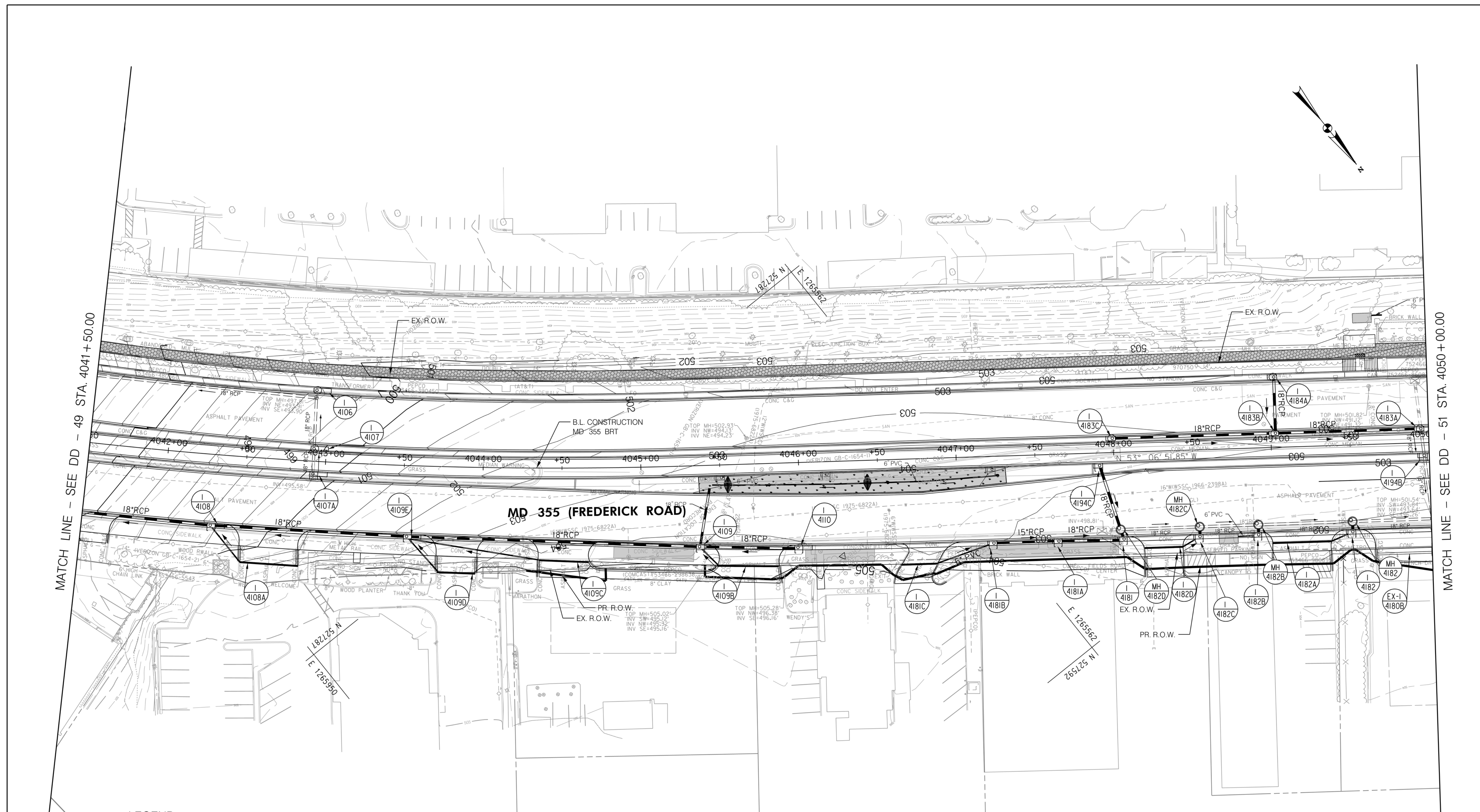
SCALE : 1" = 30'  
 DATE : DECEMBER 2022  
 Project No. : 502005 SHEET 462 of 887





MATCH LINE - SEE DD - 49 STA. 4041 + 50.00

MATCH LINE - SEE DD - 51 STA. 4050 + 00.00



**LEGEND**

- |  |   |  |   |
|--|---|--|---|
|  | PROPOSED DRAINAGE STRUCTURE   |  | PROPOSED DRAINAGE PIPE                                  |
|  | EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM |  | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
|  | EXISTING DRAINAGE STRUCTURE   |  | EXISTING DRAINAGE PIPE                                  |
|  | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL                    |  | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL             |
|  | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED               |  | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED        |

**GENERAL STORM DRAIN LABEL NOTES:**  
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 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: \_\_\_\_\_

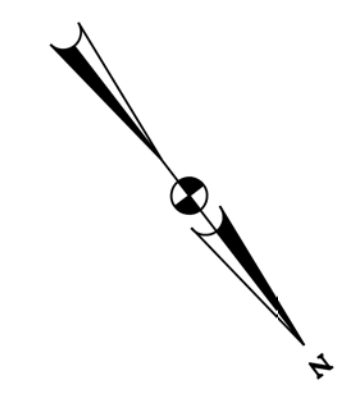
**MD 355 BUS RAPID TRANSIT (BRT)**

**DRAINAGE PLAN**  
**SEGMENT 4**

SCALE : 1" = 30'  
 DATE : DECEMBER 2022  
 Project No. : 502005 SHEET 463 of 887

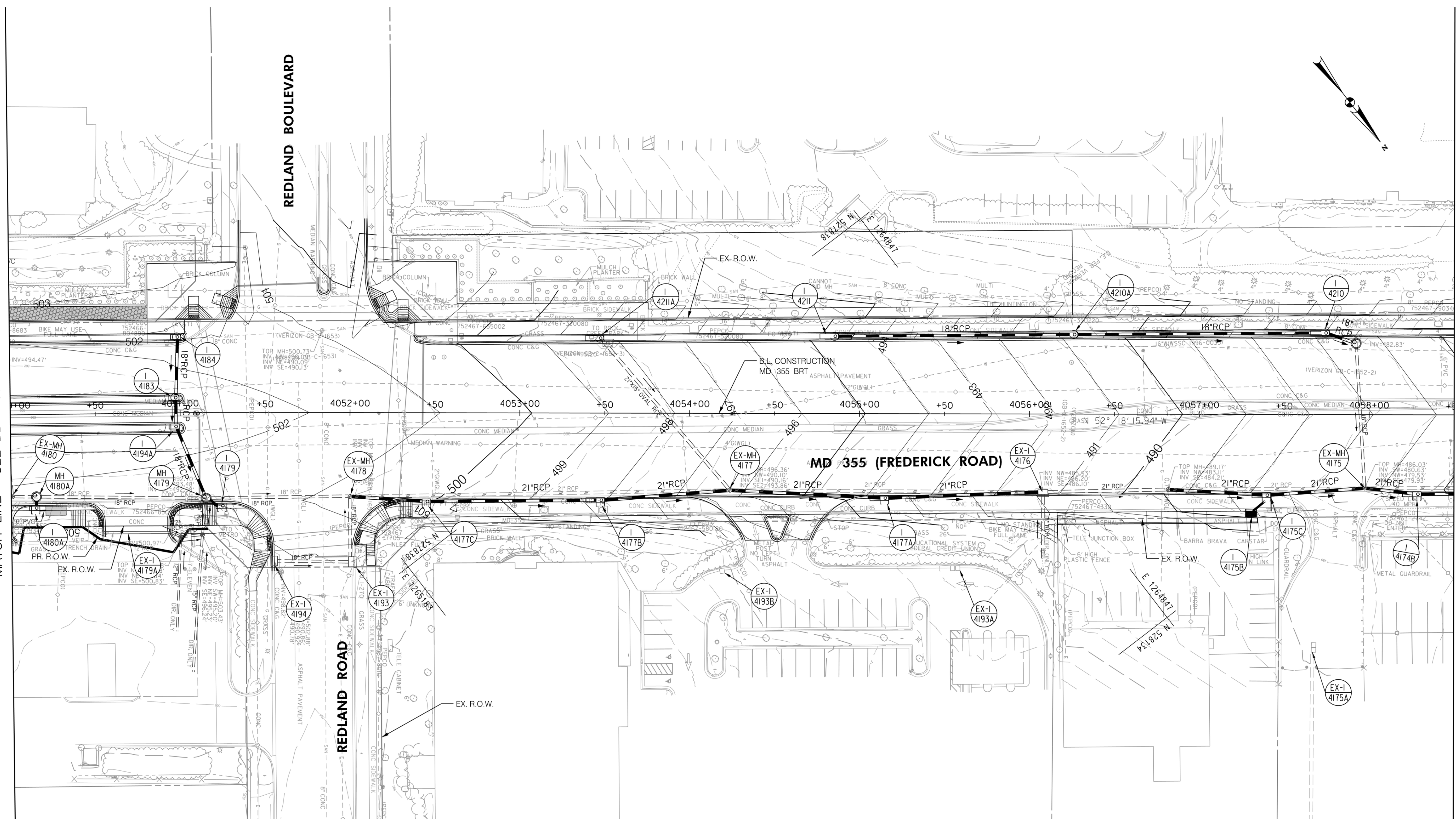
DD-50





MATCH LINE - SEE DD - 50 STA. 4050+00.00

MATCH LINE - SEE DD - 52 STA. 4058+50.00



**LEGEND**

	PROPOSED DRAINAGE STRUCTURE		PROPOSED DRAINAGE PIPE
	EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM		ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
	EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL		EXISTING DRAINAGE PIPE
	EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED		EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
			EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

**GENERAL STORM DRAIN LABEL NOTES:** MATCH LINE - SEE PS - 51A

- PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.
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**Stantec**  
6110 FROST PLACE,  
LAUREL, MARYLAND 20707  
(301) 962-2800  
www.stantec.com

PROFESSIONAL CERTIFICATION:  
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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  
APPROVED  
SEE TITLE SHEET FOR SIGNATURES  
Chief, Division of Transportation Engineering  
Designed by: \_\_\_\_\_ Drawn by: \_\_\_\_\_ Checked by: \_\_\_\_\_

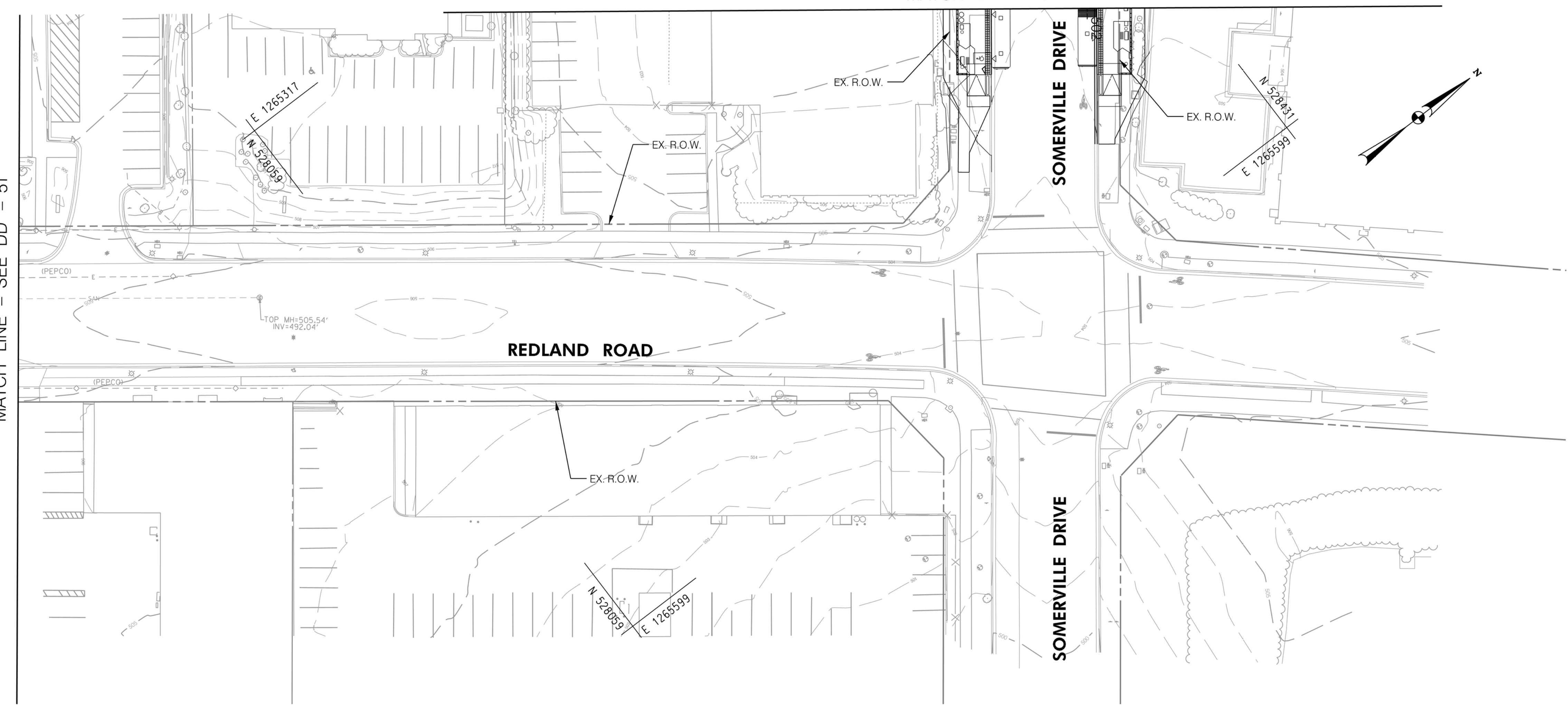
MD 355 BUS RAPID TRANSIT (BRT)  
DRAINAGE PLAN  
SEGMENT 4

SCALE : 1" = 30'  
DATE : DECEMBER 2022  
Project No. : 502005 SHEET 464 of 887



MATCH LINE - SEE DD - 51B

MATCH LINE - SEE DD - 51



**LEGEND**

- PROPOSED DRAINAGE STRUCTURE
- 48" RCP PROPOSED DRAINAGE PIPE
- 48" RCP (ASSUMED) ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- 48" RCP EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- 48" RCP EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- 48" RCP EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

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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 : \_\_\_\_\_

DD-51A

MD 355 BUS RAPID TRANSIT (BRT)

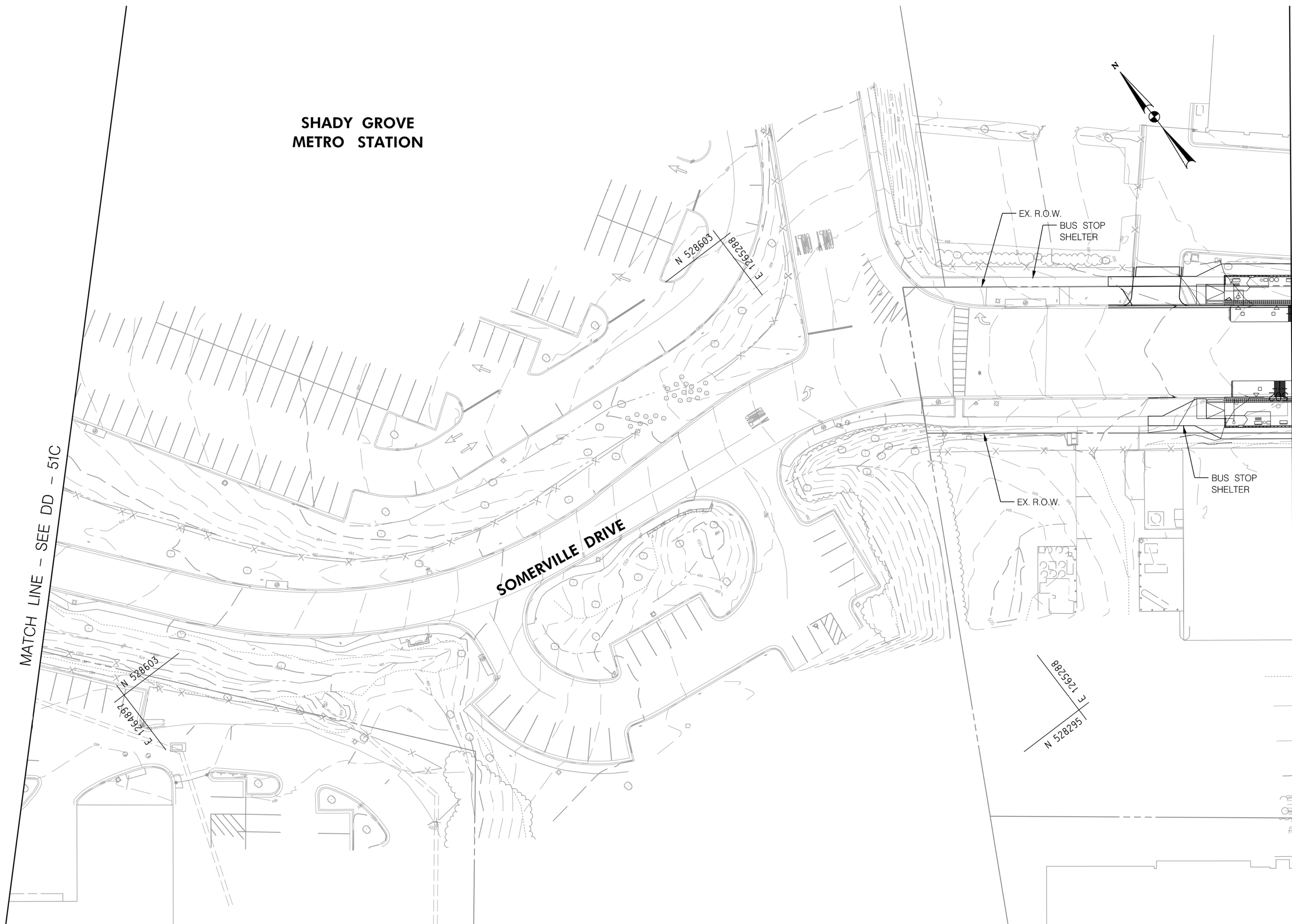
DRAINAGE PLAN  
 SEGMENT 4

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 465 of 887



**SHADY GROVE  
METRO STATION**



MATCH LINE - SEE DD - 51C

MATCH LINE - SEE DD - 51A

**LEGEND**

- PROPOSED DRAINAGE STRUCTURE
- 48" RCP PROPOSED DRAINAGE PIPE
- 48" RCP (ASSUMED) ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- 48" RCP EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- 48" RCP EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- 48" RCP EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION  
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 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: \_\_\_\_\_

DD-51B

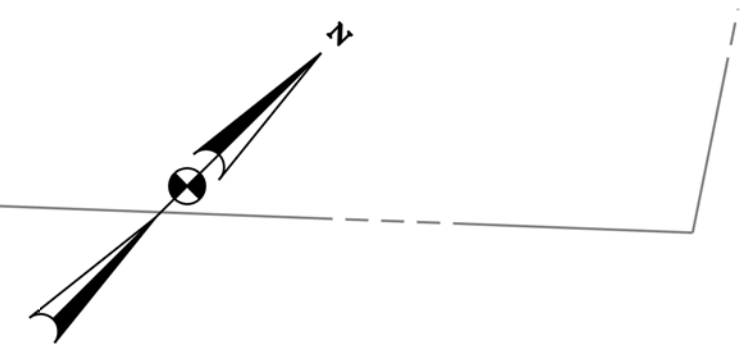
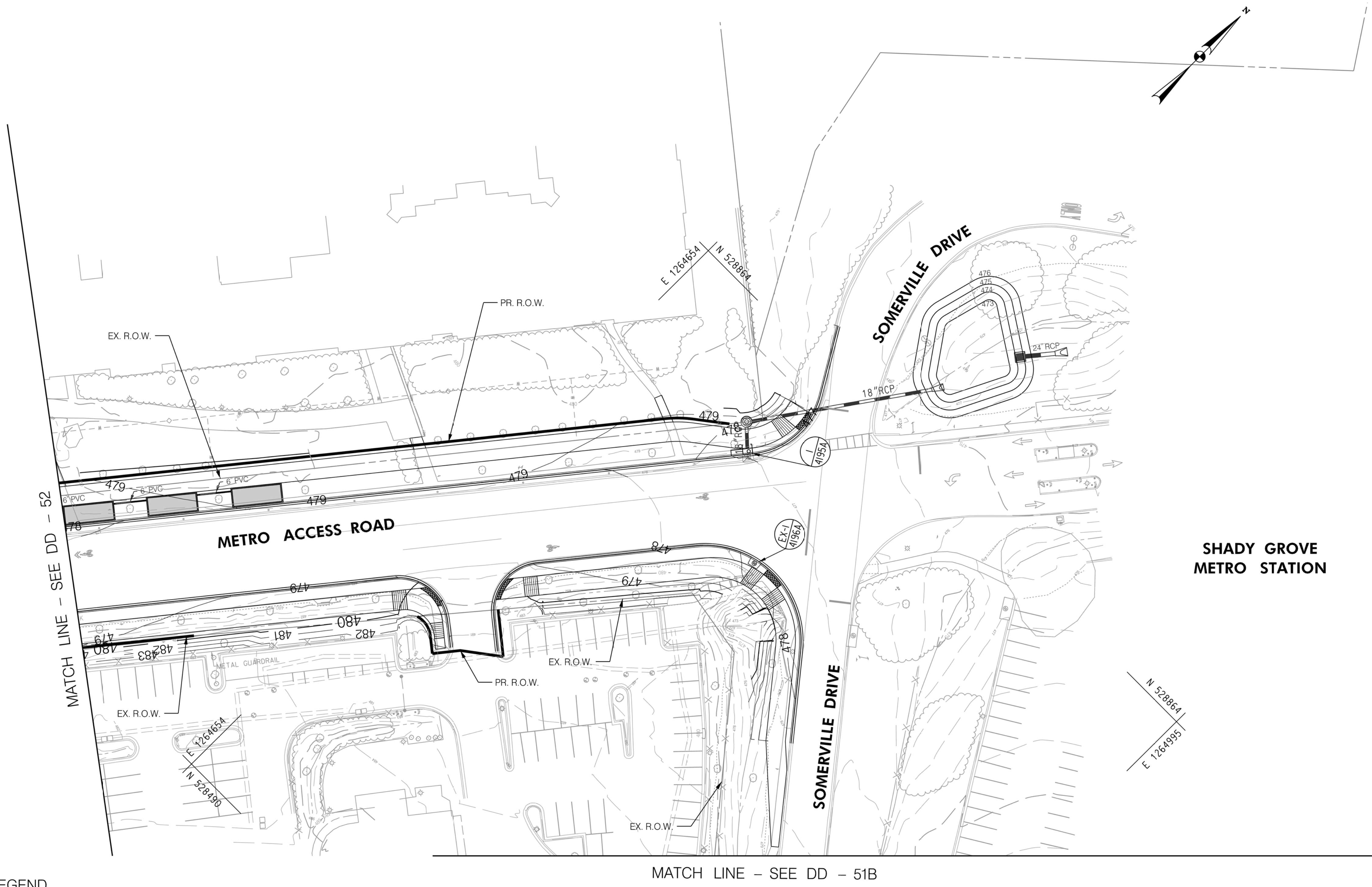
MD 355 BUS RAPID TRANSIT (BRT)

DRAINAGE PLAN  
 SEGMENT 4

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 466 of 887





**LEGEND**

- |  |   |  |   |
|--|---|--|---|
|  | PROPOSED DRAINAGE STRUCTURE   |  | PROPOSED DRAINAGE PIPE                                  |
|  | EXISTING DRAINAGE STRUCTURE   |  | EXISTING DRAINAGE PIPE                                  |
|  | EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM |  | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
|  | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL                    |  | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL             |
|  | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED               |  | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED        |

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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 : \_\_\_\_\_

DD-51C

MD 355 BUS RAPID TRANSIT (BRT)

DRAINAGE PLAN  
 SEGMENT 4

SCALE : 1" = 30' DATE : DECEMBER 2022

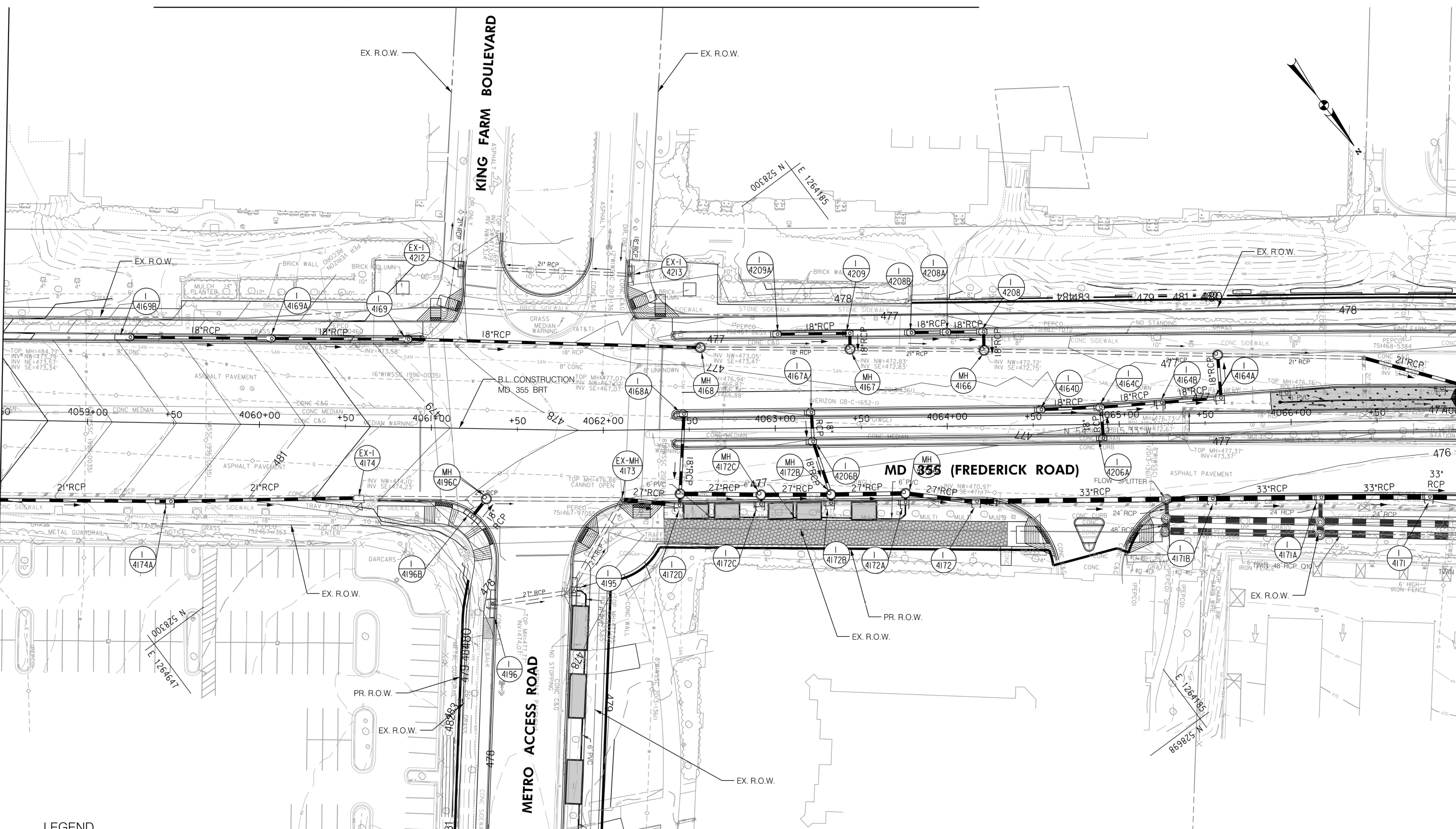
Project No. : 502005 SHEET 467 of 887



MATCH LINE - SEE DD - 52A

MATCH LINE - SEE DD - 51 STA. 4058 + 50.00

MATCH LINE - SEE DD - 53 STA. 4067 + 00.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
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 3. WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED IT MAY BE DETERMINED THAT THE EXISTING STORM DRAIN PIPE DOES NOT FUNCTION ADEQUATELY AND MAY NEED TO BE REPLACED.  
 4. EXISTING STORM DRAIN PIPES AND STRUCTURES TO REMAIN IN PLACE AND ONLINE WILL NEED TO BE INSPECTED AT A LATER PHASE TO DETERMINE THEIR CURRENT CONDITIONS AND MAY NEED TO BE CLEANED, REPAIRED, OR REPLACED.

MATCH LINE - SEE DD - 51C



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  
 APPROVED  
 SEE TITLE SHEET FOR SIGNATURES  
 Chief, Division of Transportation Engineering  
 Designed by: \_\_\_\_\_ Drawn by: \_\_\_\_\_ Checked by: \_\_\_\_\_

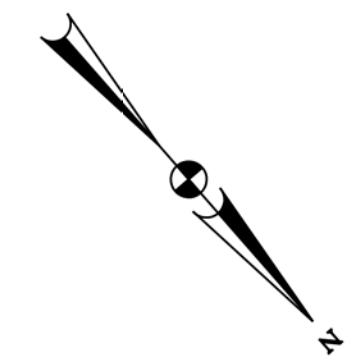
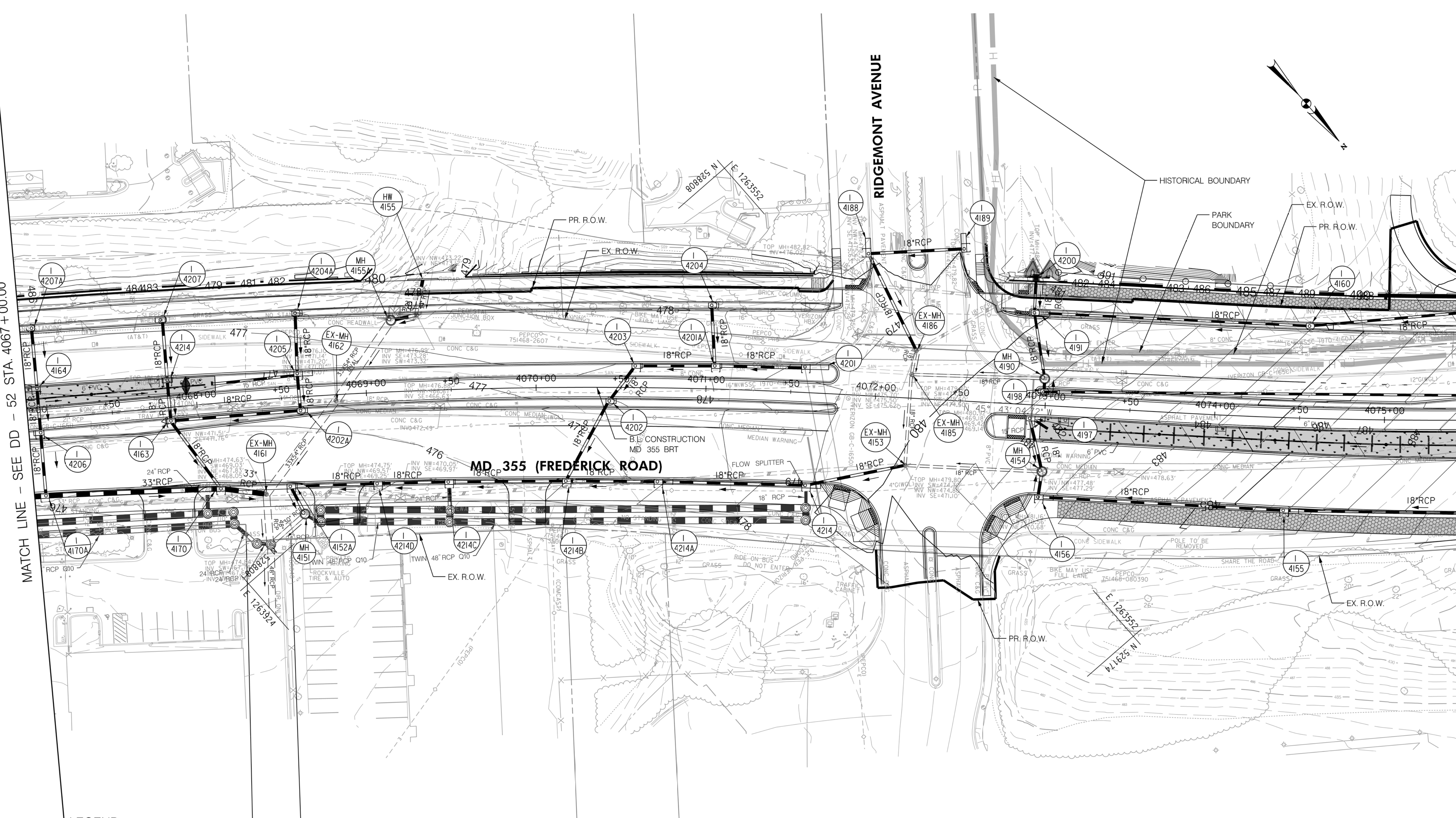
MD 355 BUS RAPID TRANSIT (BRT)  
 DRAINAGE PLAN  
 SEGMENT 4  
 SCALE : 1" = 30'  
 DATE : DECEMBER 2022  
 Project No. : 502005 SHEET 468 of 887

DD-52



MATCH LINE - SEE DD - 52 STA. 4067+00.00

MATCH LINE - SEE DD - 54 STA. 4075+50.00



**LEGEND**

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

**GENERAL STORM DRAIN LABEL NOTES:**  
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 Chief, Design Section  
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 Chief, Division of Transportation Engineering  
 Designed by: \_\_\_\_\_ Drawn by: \_\_\_\_\_ Checked by: \_\_\_\_\_

MD 355 BUS RAPID TRANSIT (BRT)

DRAINAGE PLAN  
 SEGMENT 4

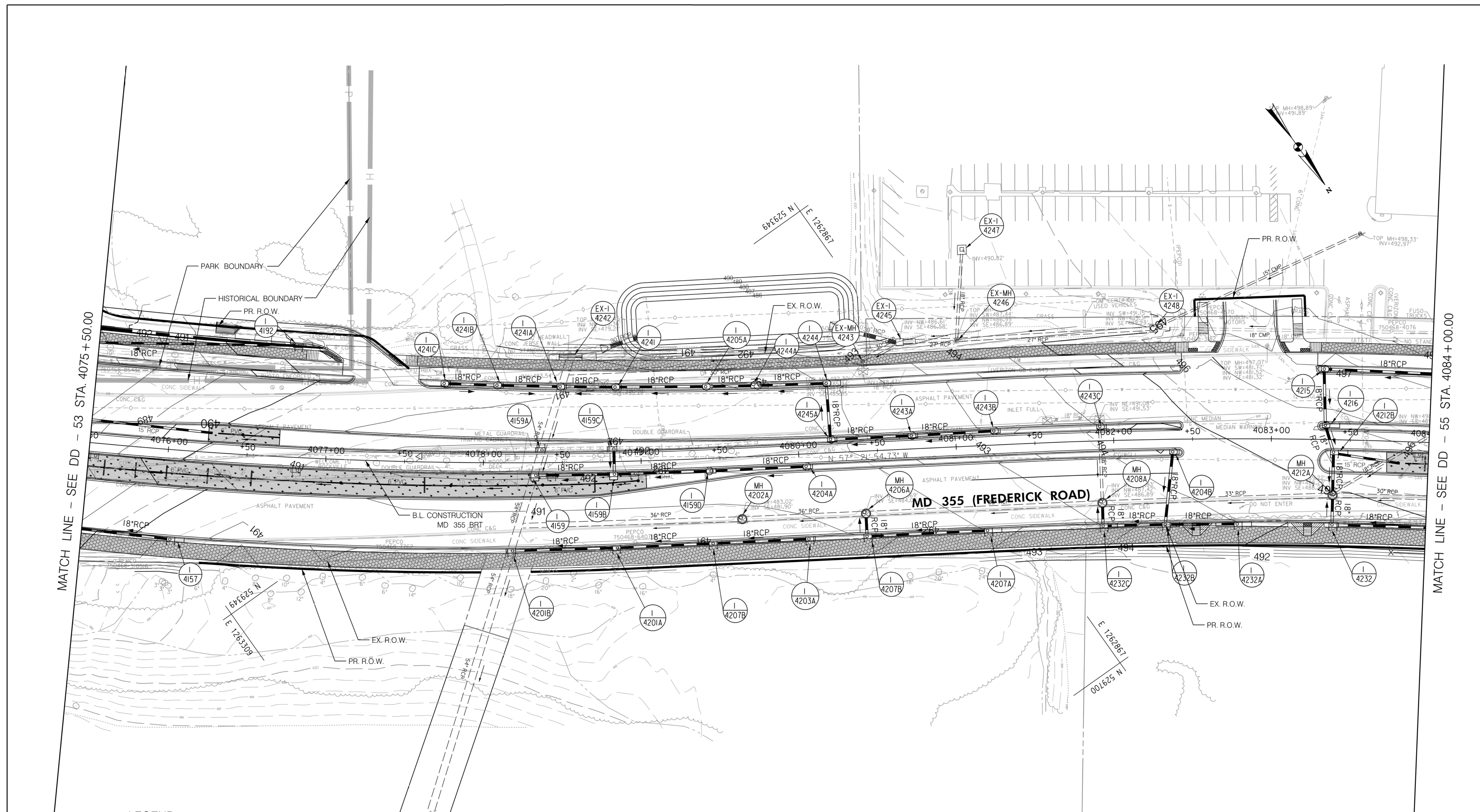
SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 469 of 887



MATCH LINE - SEE DD - 53 STA. 4075 + 50.00

MATCH LINE - SEE DD - 55 STA. 4084 + 00.00



**LEGEND**

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

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MD 355 BUS RAPID TRANSIT (BRT)

**DRAINAGE PLAN**  
 SEGMENT 4

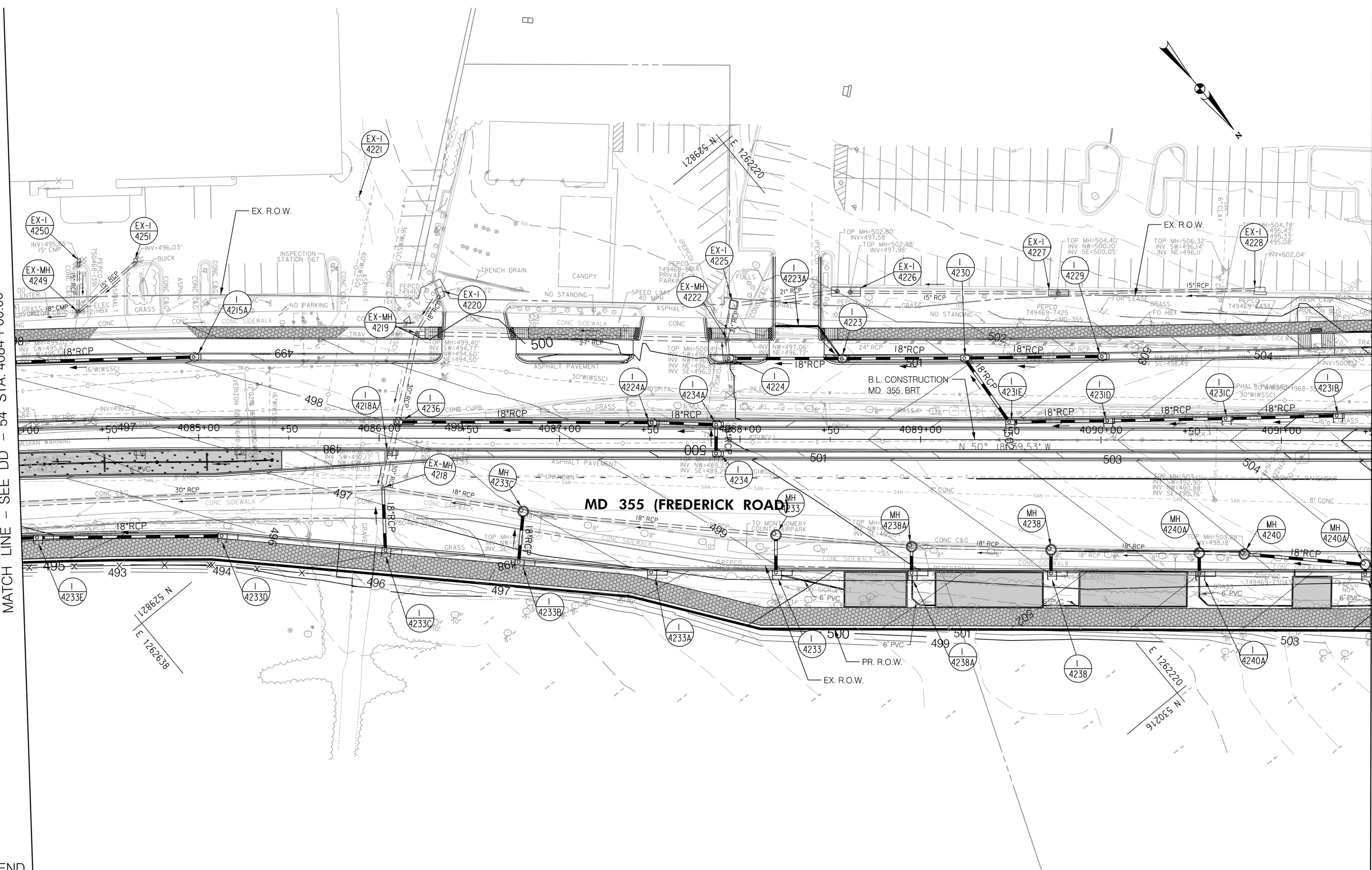
SCALE : 1" = 30'  
 DATE : DECEMBER 2022

Project No. : 502005  
 SHEET 470 of 887



MATCH LINE - SEE DD - 54 STA. 4084+00.00

MATCH LINE - SEE DD - 56 STA. 4091+50.00



**LEGEND**

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED

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MD 355 BUS RAPID TRANSIT (BRT)

DRAINAGE PLAN  
 SEGMENT 4

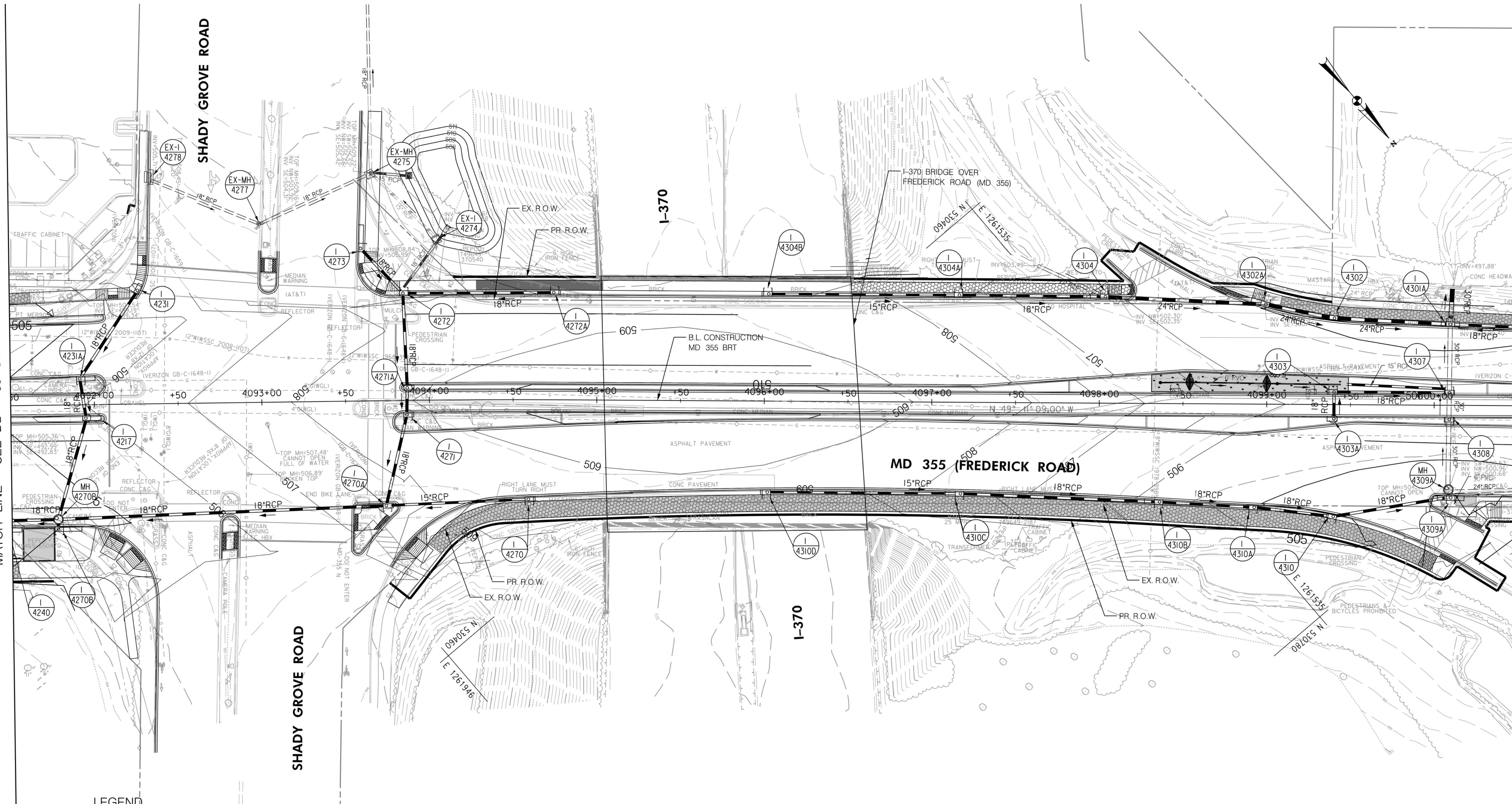
SCALE : 1" = 30'  
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 471 of 887



MATCH LINE - SEE DD - 55 STA. 4091+50.00

MATCH LINE - SEE DD - 57 STA. 4100+50.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED 48" RCP DRAINAGE PIPE
- EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

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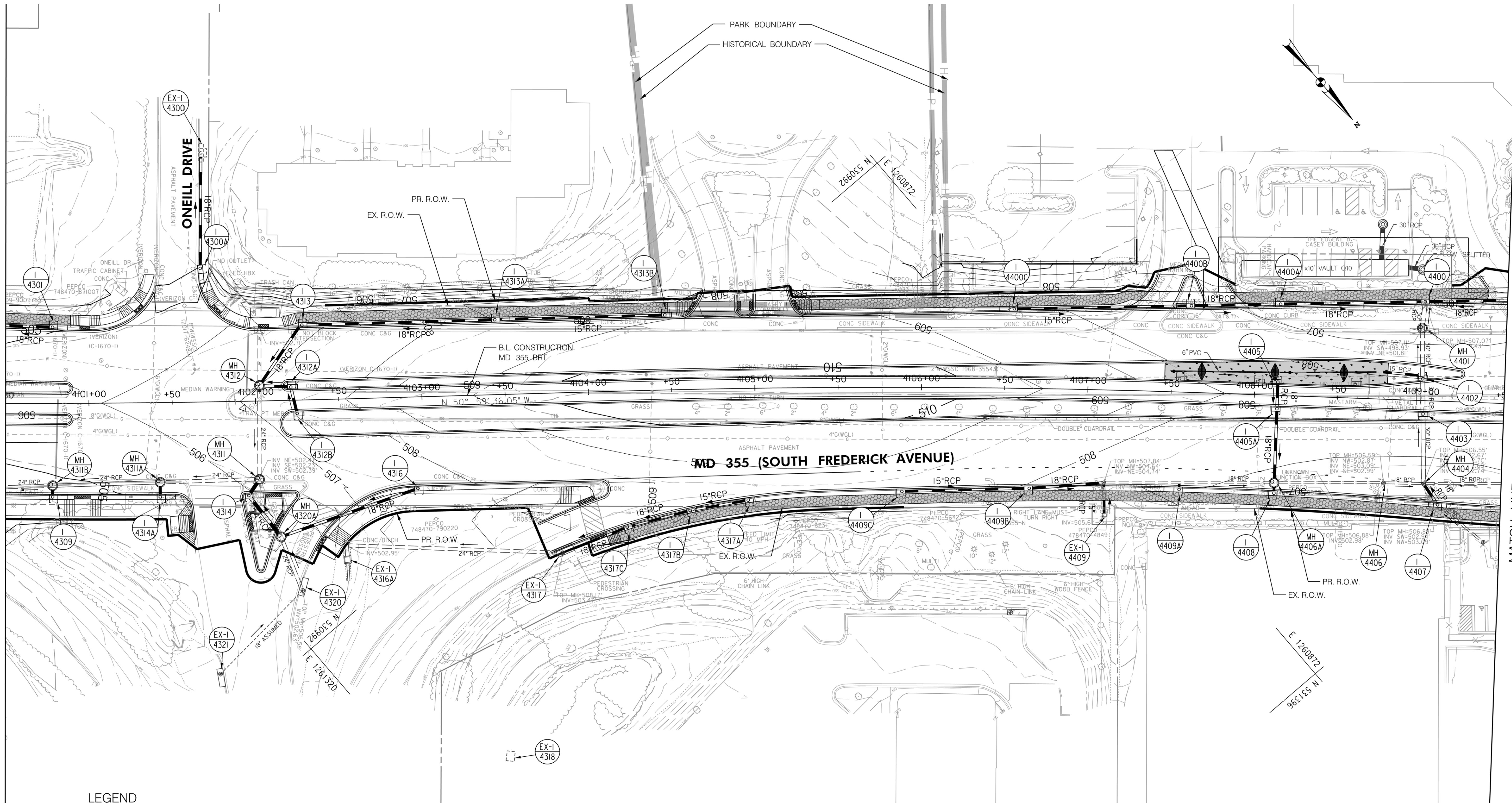
RECOMMENDED FOR APPROVAL  
 SEE TITLE SHEET FOR SIGNATURES  
 Chief, Design Section  
 APPROVED  
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 Chief, Division of Transportation Engineering  
 Designed by: \_\_\_\_\_ Drawn by: \_\_\_\_\_ Checked by: \_\_\_\_\_

MD 355 BUS RAPID TRANSIT (BRT)  
 DRAINAGE PLAN  
 SEGMENT 4  
 SCALE : 1" = 30'  
 DATE : DECEMBER 2022  
 Project No. : 502005 SHEET 472 of 887



MATCH LINE - SEE DD - 56 STA. 4100 + 50.00

MATCH LINE - SEE DD - 58 STA. 4109 + 50.00



**LEGEND**

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

**GENERAL STORM DRAIN LABEL NOTES:**

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**MD 355 BUS RAPID TRANSIT (BRT)**

**DRAINAGE PLAN**  
 SEGMENT 4

SCALE : 1" = 30'  
 DATE : DECEMBER 2022

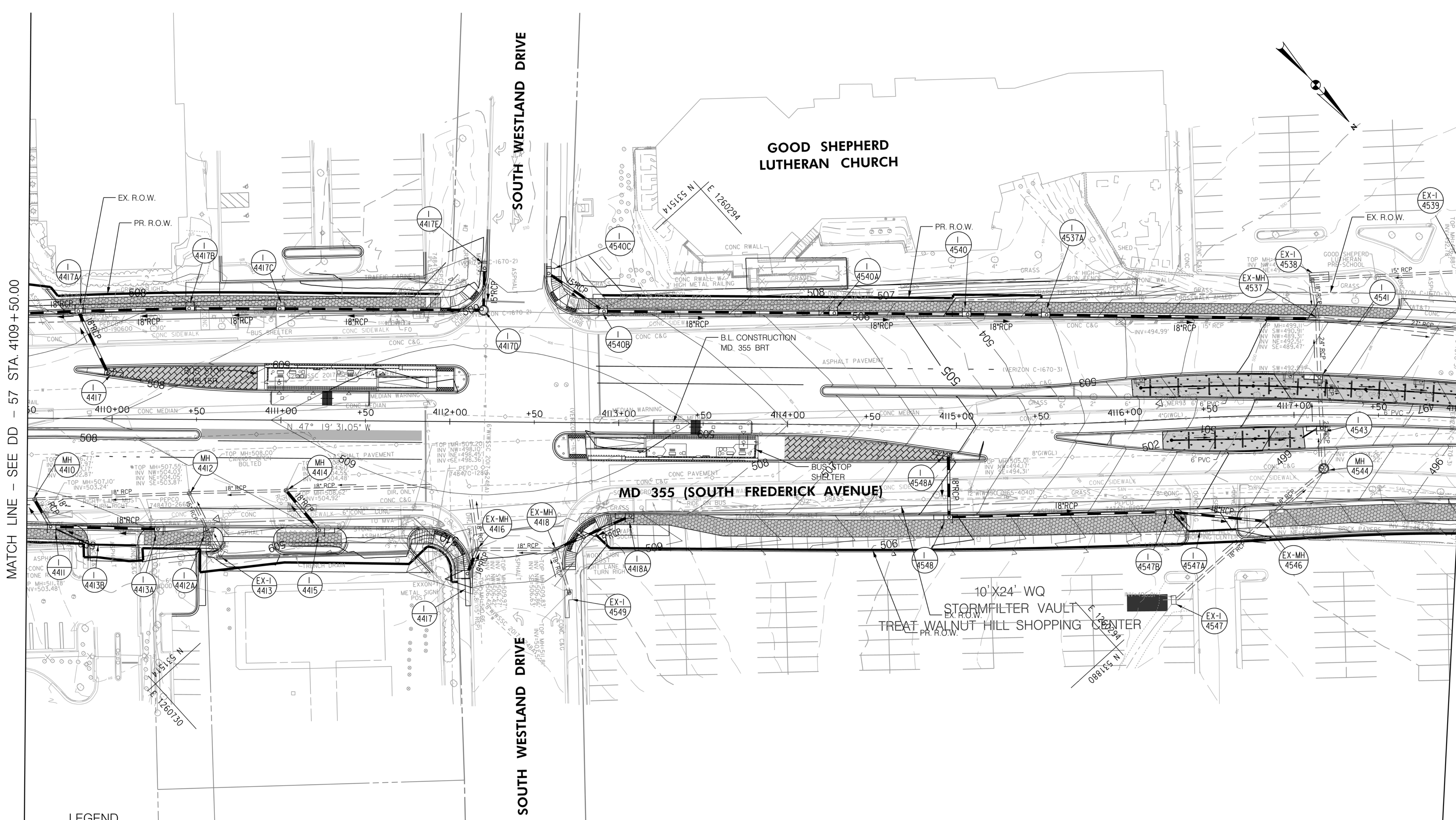
Project No. : 502005 SHEET 473 of 887

DD-57



MATCH LINE - SEE DD - 57 STA. 4109 + 50.00

MATCH LINE - SEE DD - 59 STA. 4118 + 00.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
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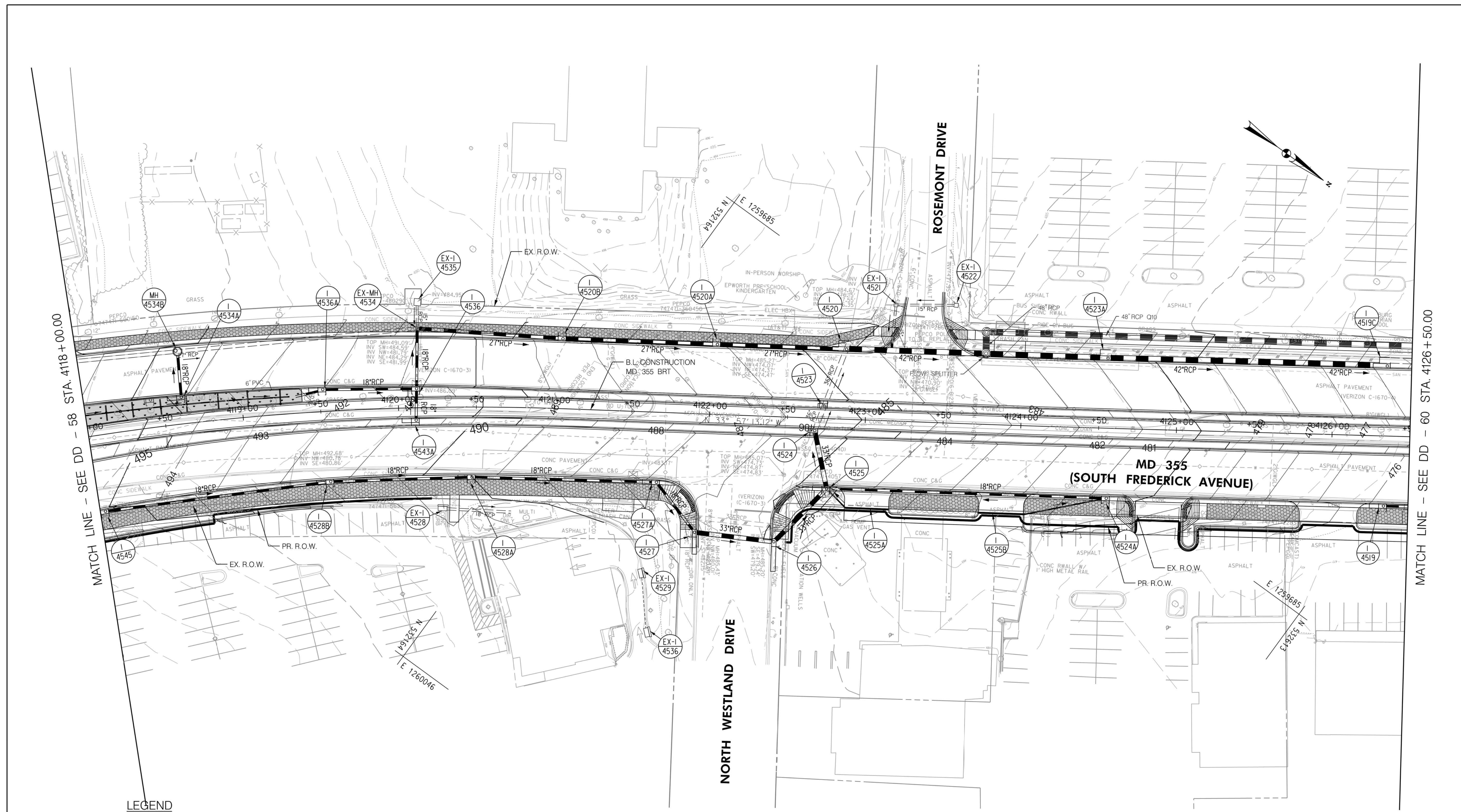
NO.	REVISION	DATE	BY

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

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 Chief, Design Section  
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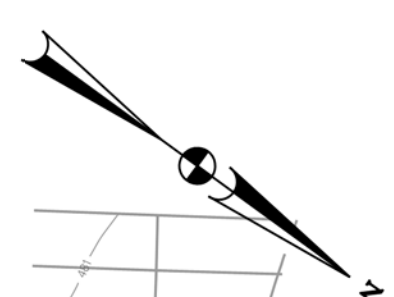
MD 355 BUS RAPID TRANSIT (BRT)  
 DRAINAGE PLAN  
 SEGMENT 4  
 SCALE : 1" = 30'  
 DATE : DECEMBER 2022  
 Project No. : 502005 SHEET 474 of 887





MATCH LINE - SEE DD - 58 STA. 4118 + 00.00

MATCH LINE - SEE DD - 60 STA. 4126 + 50.00



**LEGEND**

- |  |   |  |   |
|--|---|--|---|
|  | PROPOSED DRAINAGE STRUCTURE   |  | PROPOSED DRAINAGE PIPE                                  |
|  | EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM |  | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
|  | EXISTING DRAINAGE STRUCTURE   |  | EXISTING DRAINAGE PIPE                                  |
|  | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL                    |  | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL             |
|  | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED               |  | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED        |

**GENERAL STORM DRAIN LABEL NOTES:**  
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**MD 355 BUS RAPID TRANSIT (BRT)**

**DRAINAGE PLAN**  
**SEGMENT 4**

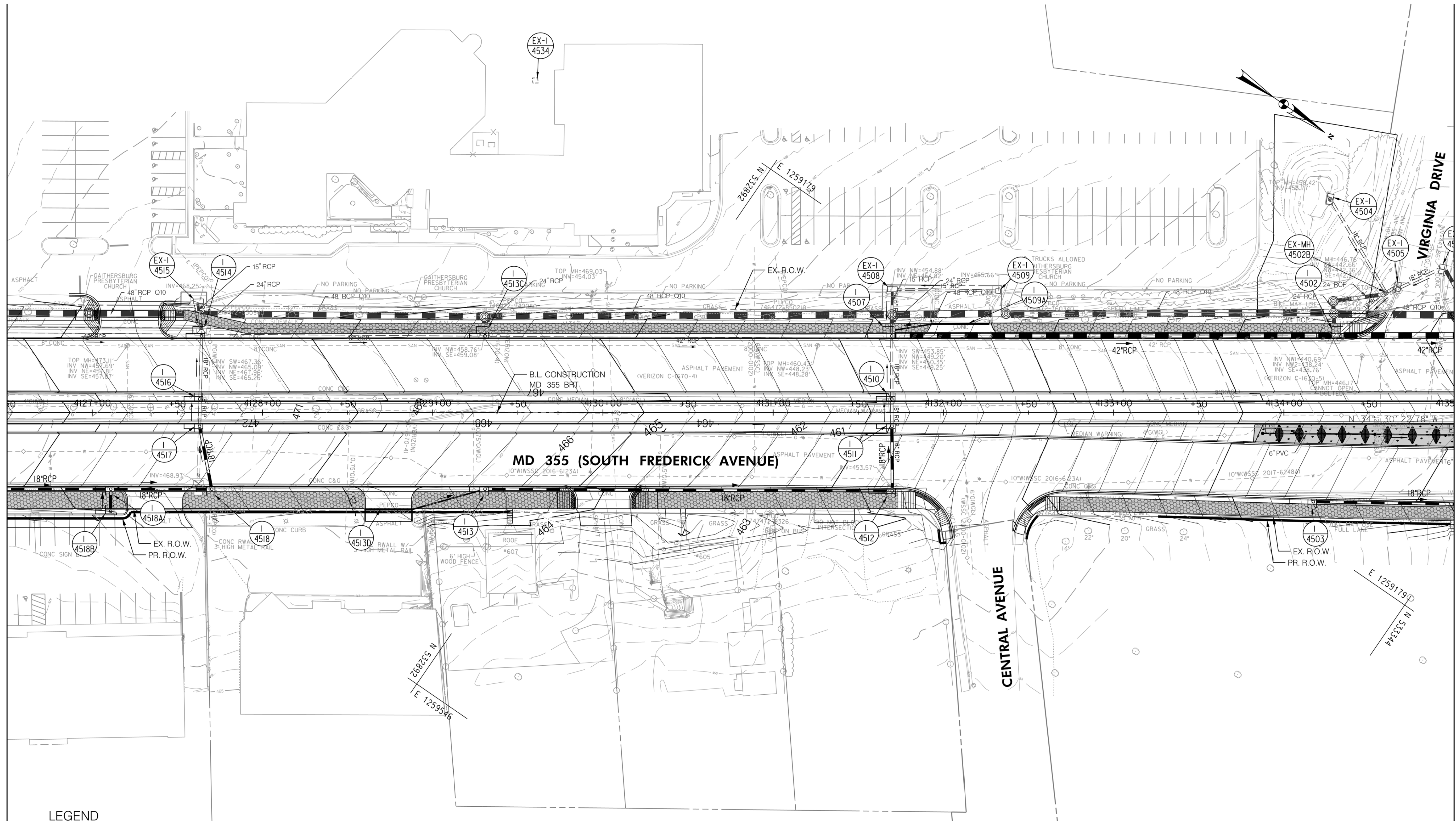
SCALE : 1" = 30'  
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 475 of 887



MATCH LINE - SEE DD - 59 STA. 4126+50.00

MATCH LINE - SEE DD - 61 STA. 4135+00.00



**LEGEND**

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
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**MD 355 BUS RAPID TRANSIT (BRT)**

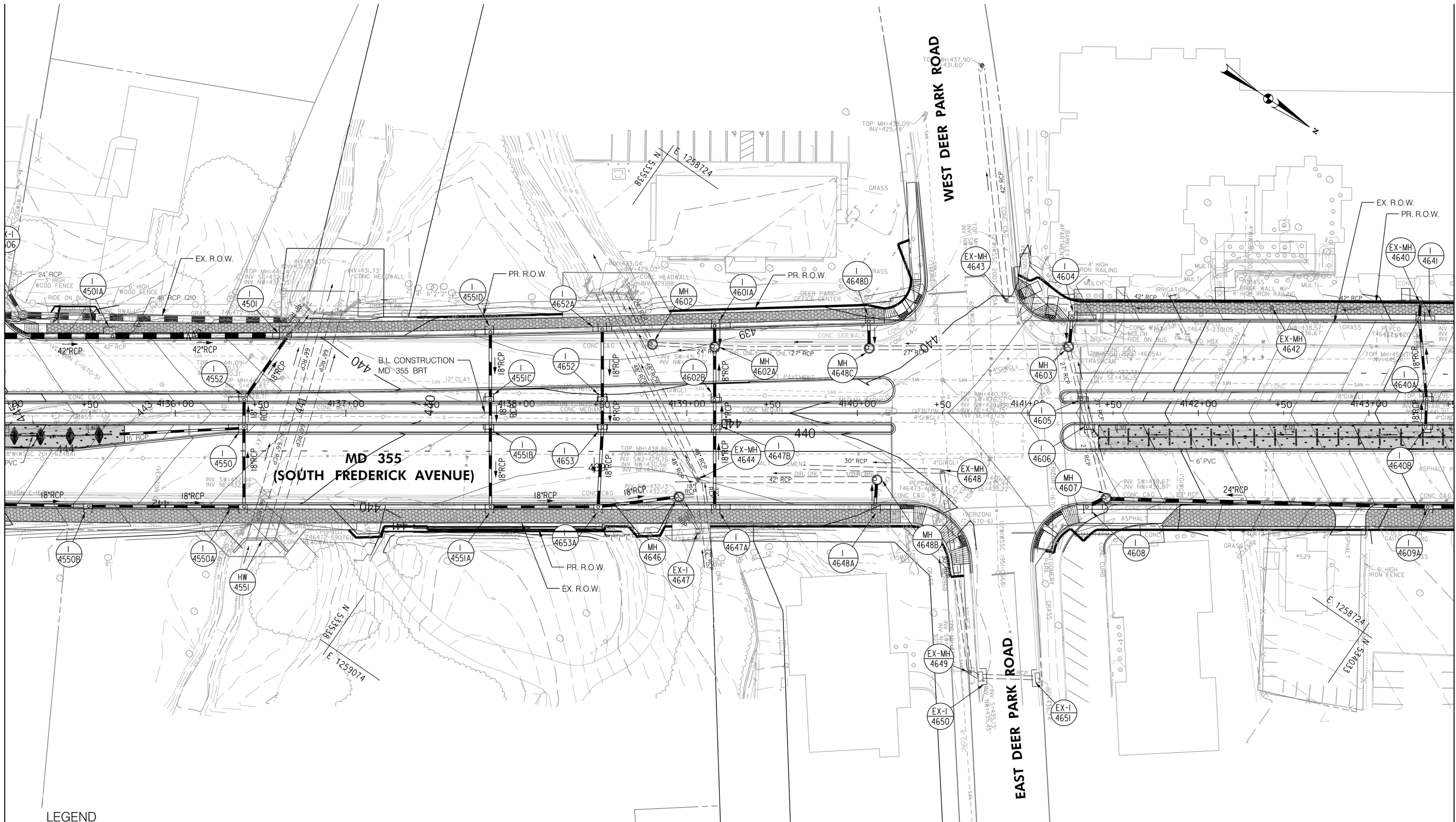
**DRAINAGE PLAN**  
**SEGMENT 4**

SCALE : 1" = 30'  
 DATE : DECEMBER 2022  
 Project No. : 502005 SHEET 476 of 887

DD-60



MATCH LINE - SEE DD - 60 STA. 4135+00.00



MATCH LINE - SEE DD - 62 STA. 4143+50.00

**LEGEND**

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
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 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)

**DRAINAGE PLAN**  
 SEGMENT 4

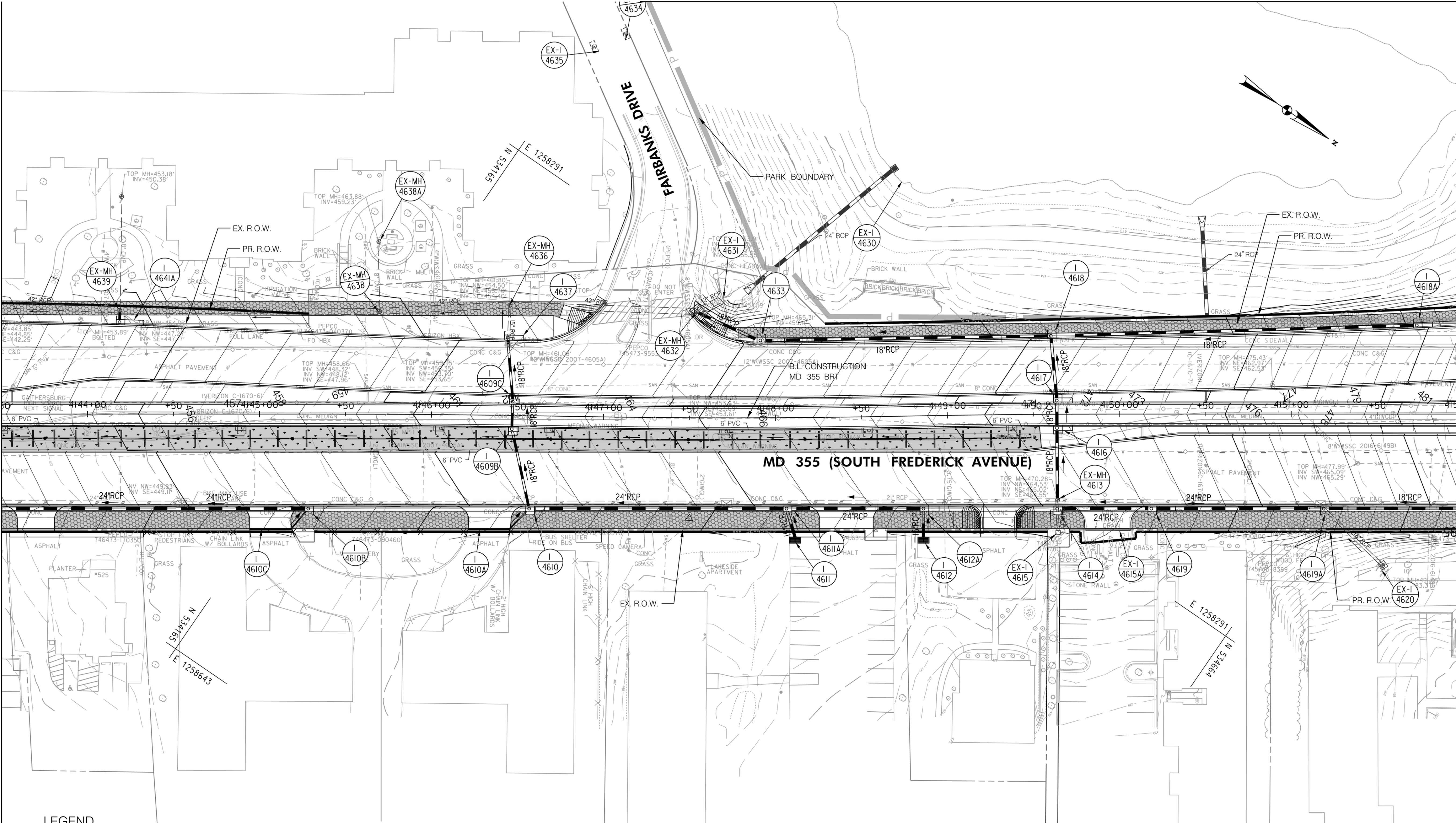
SCALE : 1" = 30'  
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 477 of 887



MATCH LINE - SEE DD - 61 STA. 4143+50.00

MATCH LINE - SEE DD - 63 STA. 4152+00.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

GENERAL STORM DRAIN LABEL NOTES:  
 1. PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.  
 2. ATTEMPTS HAVE BEEN MADE TO UTILIZE EXISTING STORM DRAIN PIPES TO THE EXTENT PRACTICAL.  
 3. WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED IT MAY BE DETERMINED THAT THE EXISTING STORM DRAIN PIPE DOES NOT FUNCTION ADEQUATELY AND MAY NEED TO BE REPLACED.  
 4. EXISTING STORM DRAIN PIPES AND STRUCTURES TO REMAIN IN PLACE AND ONLINE WILL NEED TO BE INSPECTED AT A LATER PHASE TO DETERMINE THEIR CURRENT CONDITIONS AND MAY NEED TO BE CLEANED, REPAIRED, OR REPLACED.



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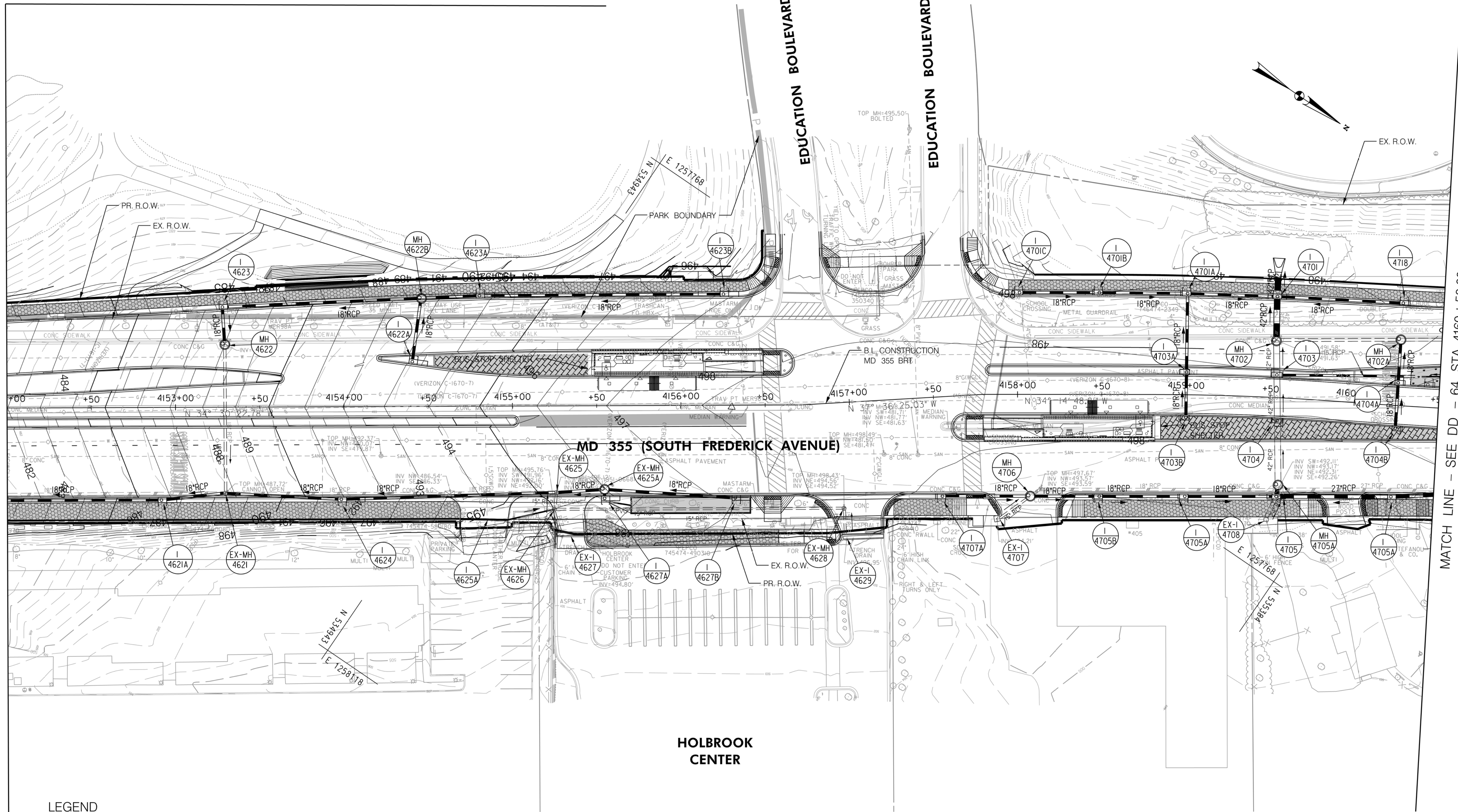
MD 355 BUS RAPID TRANSIT (BRT)  
 DRAINAGE PLAN  
 SEGMENT 4

SCALE : 1" = 30'  
 DATE : DECEMBER 2022  
 Project No. : 502005 SHEET 478 of 887



MATCH LINE - SEE DD - 62A

MATCH LINE - SEE DD - 62 STA. 4153+00.00



MATCH LINE - SEE DD - 64 STA. 4160+50.00

**LEGEND**

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

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**Stantec**  
 6110 FROST PLACE,  
 LAUREL, MARYLAND 20707  
 (301) 962-2800  
 www.stantec.com

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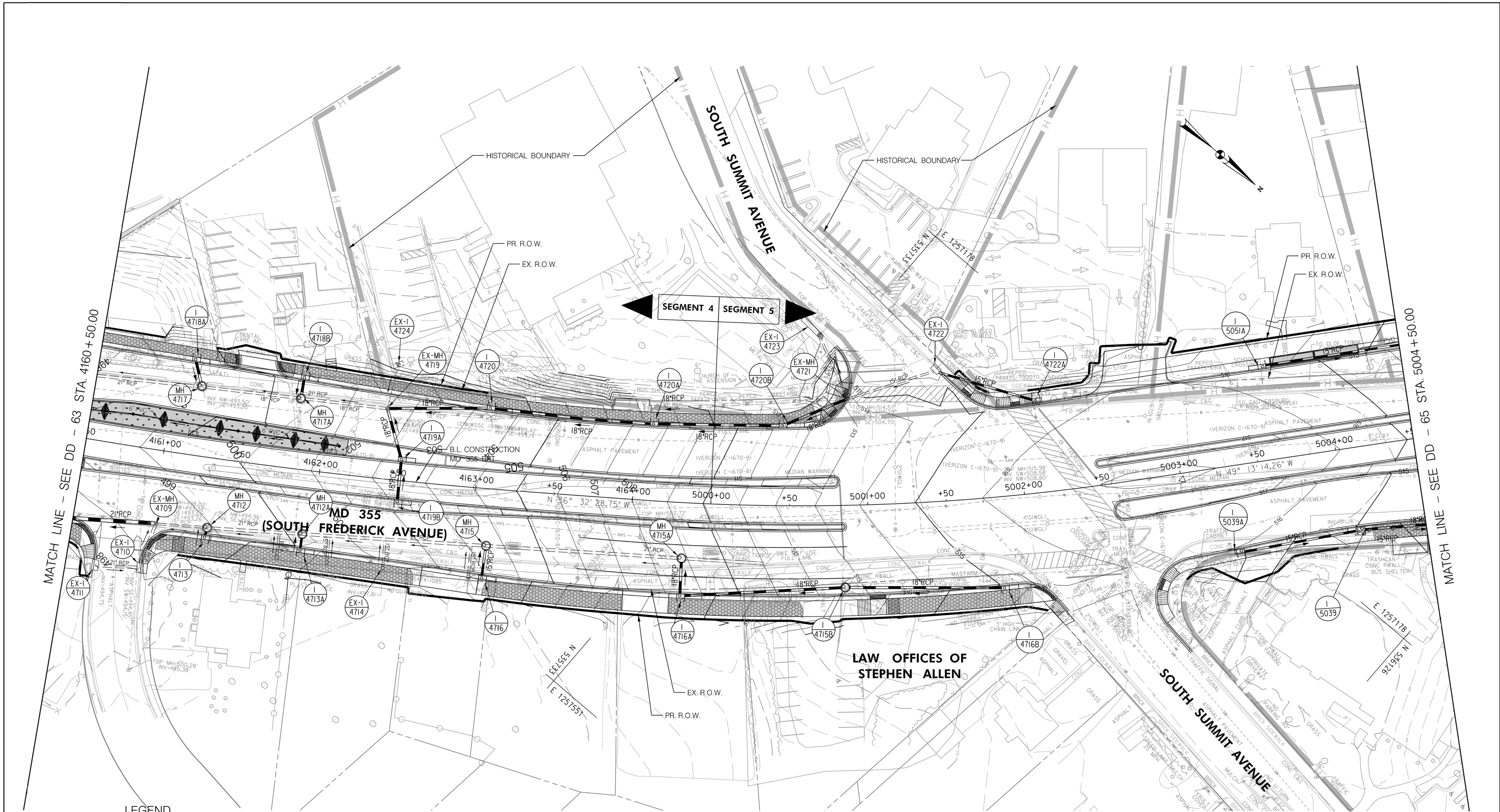
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION  
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MD 355 BUS RAPID TRANSIT (BRT)  
 DRAINAGE PLAN  
 SEGMENT 4

SCALE : 1" = 30'  
 DATE : DECEMBER 2022  
 Project No. : 502005 SHEET 479 of 887





MATCH LINE - SEE DD - 63 STA. 4160+50.00

MATCH LINE - SEE DD - 65 STA. 5004+50.00

SEGMENT 4    SEGMENT 5

**LEGEND**

- |  |   |  |   |
|--|---|--|---|
|  | PROPOSED DRAINAGE STRUCTURE   |  | PROPOSED DRAINAGE PIPE                                  |
|  | EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM |  | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
|  | EXISTING DRAINAGE STRUCTURE   |  | EXISTING DRAINAGE PIPE                                  |
|  | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL                    |  | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL             |
|  | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED               |  | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED        |

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MD 355 BUS RAPID TRANSIT (BRT)

**DRAINAGE PLAN**  
 SEGMENT 4 - SEGMENT 5

SCALE : 1" = 30'  
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 480 of 887

DD-64