

STRUCTURAL GENERAL NOTES

SPECIFICATIONS:

MDOT SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JULY 2021.

DESIGN:

AASHTO LOAD AND RESISTANCE FACTOR DESIGN (LRFD) BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION, 2020, INCLUDING ALL INTERIMS.

LOADING:

HL-93

LOAD RESTRICTIONS:

THERE ARE RESTRICTIONS FOR PLACING EQUIPMENT AND MATERIALS ON EXISTING AND NEW STRUCTURE(S). REFER TO SECTION TC 6.14

RETAINING WALL TYPES:

MSE WALL

STRUCTURAL STEEL:

NEW STRUCTURAL STEEL SHALL CONFORM TO A 709, GRADE 50. INCLUDING THE ADDITIONAL REQUIREMENTS FOR CHARPY V-NOTCH TESTING OF M 270, FOR PRIMARY LOAD CARRYING MEMBERS. REFER TO SECTION 909.01.

REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, WITH A YIELD STRENGTH OF $f_y = 60,000$ PSI AND SHALL BE EPOXY COATED.

FOR TIES AND STIRRUPS, STANDARD ACIBENDING TOLERANCES ARE MODIFIED TO PLUS (+) ZERO INCHES, MINUS (-) NORMAL ACIBENDING TOLERANCES

ALL SPLICES, NOT SHOWN, SHALL BE LAPPED AS PER BAR LAP CHARTS.

MINIMUM CONCRETE COVER 2" UNLESS OTHERWISE NOTED, WITH THE EXCEPTION OF BARS AT THE BOTTOM AND SIDES OF ALL FOOTINGS WHICH SHALL HAVE 3" MINIMUM COVER.

REINFORCED CONCRETE:

ALL CONCRETE FOR ABUTMENT BACKWALLS, PARAPET AT ABUTMENT WING WALLS AND ENTIRE SUPERSTRUCTURE(S) SHALL BE MIX NO. 6 (4500 PSI) CONTAINING SYNTHETIC FIBERS (SEE SECTION 902.15.01).

ALL CONCRETE FOR PARAPETS AND MOMENT SLABS ON WALLS, AND RETAINING WALLS WITHIN 10 FT. OF THE PAVED ROADWAY SHALL BE MIX NO. 6 (4500 PSI) CONTAINING SYNTHETIC FIBERS (SEE SECTION 902.15.01).

ALL OTHER STRUCTURE SHALL BE MIX NO. 3 (3500 PSI).

EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4"x3/4", EXCEPT AS NOTED OTHERWISE.

PROTECTIVE COATING:

APPLY CLEAR ANTI-GRAFFITICOATING TO ALL EXPOSED WALL SURFACE PER SPECIFICATIONS SECTION 917.04.

VERIFICATION OF EXISTING GEOMETRICS/STRUCTURES:

ALL DIMENSIONS AFFECTED BY THE FIELD GEOMETRICS AND/OR ELEVATION SHALL BE CHECKED IN THE FIELD BY THE CONTRACTOR, BEFORE ANY CONSTRUCTION BEGINS, AND BEFORE ANY MATERIAL IS ORDERED OR FABRICATED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY THE ENGINEER WITH ALL FIELD DIMENSIONS REQUIRED TO CHECK DETAIL DRAWINGS.

TEMPORARY SUPPORT DURING CONSTRUCTION:

THE DESIGN OF THE TEMPORARY SHEETING, SHORING AND TEMPORARY SUPPORT SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE DONE BY A REGISTERED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF MARYLAND AND FAMILIAR WITH THE PARTICULAR METHODS AND/OR PROCEDURES BEING PROPOSED. ALL SYSTEMS ARE SUBJECT TO THE EXAMINATION OF THE ENGINEER. THE WORK WILL NOT BE MEASURED BUT THE COST WILL BE INCIDENTAL TO OTHER ITEMS SPECIFIED.

UNDERGROUND WARNING TAPE:

INSTALL "NO DIG" DETECTABLE UNDERGROUND WARNING TAPE AT LEAST 24" BELOW THE PROPOSED GROUND OVER MSE WALL GEOSYNTHETIC REINFORCEMENT

UTILITIES:

PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR MUST NOTIFY "MISS UTILITY" AT 800-257-7777, 72 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) IN ADVANCE FOR THE EXACT LOCATION OF UTILITIES LOCATED ON THE SITE.

ALL EXISTING UTILITIES ON THE SITE, IF AFFECTED BY THE CONSTRUCTION, MUST BE PROTECTED AND TEMPORARILY SUPPORTED DURING CONSTRUCTION. ANY DAMAGE INCURRED TO UTILITIES MUST BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE. UTILITY RELOCATION, IF NECESSARY, SHALL BE COORDINATED WITH THE AGENCIES INVOLVED.

FOR FULL INFORMATION REGARDING UTILITY PROTECTION, SEE SECTION 107.03.06 "UTILITIES", SECTION 204.03.06 "PROTECTION OF STRUCTURES AND UTILITIES DURING CONSTRUCTION", SECTION 205 "TEST PIT EXCAVATION", AND SECTION 210 "TAMPED FILL" IN THE SPECIFICATIONS.

SOIL BEARING PRESSURE:

THE SUBGRADE SOIL OF RETAINING WALL SHALL BE PROOF-ROLLED IN ACCORDANCE WITH SPECIFICATION SECTION 204.03.04. PROOF-ROLLING SHALL BE INSPECTED BY THE ENGINEER. ANY SOFT OR LOOSE ZONES THAT CANNOT BE DENSIFIED IN-PLACE SHOULD BE UNDERCUT TO A DEPTH, LENGTH AND WIDTH AS DIRECTED BY THE ENGINEER. THE UNSUITABLE SOIL, WHERE EXISTS, CAN BE REMOVED UP TO A MAXIMUM DEPTH OF 24 INCHES BELOW THE FOOTING AND REPLACED WITH SUITABLE STRUCTURAL FILL IN ACCORDANCE WITH SPECIFICATION SECTIONS 204 AND 208. DEEPER UNDERCUTS SHOULD BE AVOIDED UNLESS APPROVED BY THE ENGINEER.

A FACTORED SOIL NOMINAL BEARING RESISTANCE OF 2,400 PSF (SERVICE LIMIT) AND 3,600 PSF (STRENGTH LIMIT) RESPECTIVELY IS RECOMMENDED FOR THE FOUNDATION SOILS OF RETAINING WALLS.

THE GEOTECHNICAL ENGINEER SHALL INSPECT, VERIFY, AND CERTIFY THAT THE SUBGRADE HAS THE REQUIRED BEARING CAPACITY.

THE DESIGNER OF THE PROPRIETARY RETAINING WALL SHALL VERIFY THE FACTORED DESIGN FOUNDATION PRESSURE IS NOT MORE THAN THE FACTORED SOIL NOMINAL BEARING RESISTANCE. OTHERWISE, THE ENGINEER SHALL BE NOTIFIED.

CONCRETE SEGMENTAL BLOCKS:

THE WALLS SHALL BE CONSTRUCTED WITH APPROVED SEGMENTAL BLOCKS/UNITS AND MECHANICALLY STABILIZED EARTH SYSTEMS. THE EXTERNAL FACE SHALL BE OF STONE STRAIGHT FINISH WITH A LIGHT-TO-DARK BROWN COLOR AS MANUFACTURED BY LISTED ANCHOR WALL SYSTEMS OR APPROVED EQUAL. CONCRETE UNITS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI. THE CONCRETE SHALL HAVE A MINIMUM ABSORPTION OF 7.5 LB PER CUBIC FEET. UNITS SHALL BE INTERLOCKED AND PROVIDE EITHER A NEAR VERTICAL FACE OR SETBACK OF 1:16.

CAST-IN-PLACE CONCRETE LEVELING PAD:

THE LOCATION FOR THE BOTTOM OF THE PAD SHOWN ON THE PLANS IS APPROXIMATE. THE FINAL LOCATION SHALL BE PROVIDED BY THE CONTRACTOR/SUPPLIER OF THE WALL SYSTEM.

BACKFILL:

SIZE NO. 57 STONE SHALL BE USED FOR BACKFILL FOR ALL PREAPPROVED ALTERNATE RETAINING WALLS REGARDLESS OF THE TYPE BACKFILL RECOMMENDED OR SPECIFIED BY THE RETAINING WALL MANUFACTURER.

GEOGRID:

GEOGRID SHALL BE PLACED AS REQUIRED AND SHALL HAVE THE PROPERTY REQUIREMENTS DESCRIBED WITHIN THE MANUFACTURER'S SPECIFICATIONS. GEOGRID SHALL BE HIGH DENSITY POLYETHYLENE SHEET OR POLYESTER WOVEN FIBER MATERIAL, PROVIDING AN ULTIMATE TENSILE STRENGTH OF 5,000 POUNDS OR MORE, SPECIFICALLY FOR USE AS SOIL REINFORCEMENT. A MANUFACTURER'S PRODUCT SHALL BE APPROVED BY THE ENGINEER.

LIST OF APPROVED MSE WALL MANUFACTURERS:

FOR A LIST OF MDOT SHA APPROVED MSE WALLS, REFER TO THE WEBSITE AT (<https://www.roads.maryland.gov/obd/MSEWallList.pdf>)

SUBMITTALS:

MANUFACTURER AND/OR BUILDER SHALL SUBMIT TO THE MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION AND THE MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION, THE FOLLOWING ITEMS FOR ENGINEER'S APPROVAL PRIOR TO FABRICATION OF WALL MEMBERS AND BEGINNING OF CONSTRUCTION:

- A. PRODUCT DATA - MANUFACTURER'S MATERIAL SPECIFICATIONS, INSTALLATION INSTRUCTIONS, AND GENERAL RECOMMENDATIONS FOR EACH MANUFACTURED PRODUCT SPECIFIED.
- B. CERTIFICATIONS - RETAINING WALL SYSTEM SUPPLIER SHALL PROVIDE CERTIFICATION THAT THE ULTIMATE STRENGTH OF THE STRUCTURAL GEOGRID IS EQUAL TO OR GREATER THAN THE ULTIMATE STRENGTH SPECIFIED IN THE PLANS.
- C. SHOP DRAWINGS - RETAINING WALL SYSTEM DESIGN, INCLUDING WALL ELEVATION VIEWS, DRAINAGE PROVISIONS, TYPICAL SECTIONS, DETAILS, AND CONNECTIONS.
- D. DESIGN CALCULATIONS - ENGINEERING DESIGN CALCULATIONS PREPARED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. ANALYSIS OF GLOBAL STABILITY MUST BE ADDRESSED AND INCORPORATED INTO THE SHOP DRAWINGS.
- E. SAMPLES:
 1. GEOGRID - FURNISH 12 INCH SQUARE OR LARGER PIECE.
 2. SEGMENTAL CONCRETE FACING UNIT - FURNISH ONE UNIT IN THE SELECTED COLOR AND FACE PATTERN.
 3. SHEAR PIN OR CONNECTION DEVICE.
- F. QUALITY CONTROL SUBMITTALS:
 1. DESIGN DATA - DESIGN CALCULATIONS AND PLANS FOR THE RETAINING WALL SYSTEM SHALL BE SIGNED / SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF MARYLAND WHO IS EMPLOYED WITH A FIRM THAT HAS DESIGNED AT LEAST 500,000 SF OF SEGMENTAL RETAINING WALLS.
 2. CERTIFICATES - MANUFACTURER'S CERTIFICATION THAT ULTIMATE TENSILE STRENGTH AND THE JUNCTION STRENGTH OF THE GEOGRID ARE EQUAL TO OR GREATER THAN THOSE SPECIFIED.
 3. TEST REPORTS - INDEPENDENT LABORATORY REPORTS STATING MOISTURE ABSORPTION AND COMPRESSIVE STRENGTH PROPERTIES OF THE CONCRETE RETAINING WALL UNITS MEET THE PROJECT SPECIFICATIONS WHEN TESTED IN ACCORDANCE WITH ASTM C140, SECTIONS 6, 8 AND 9.

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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

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

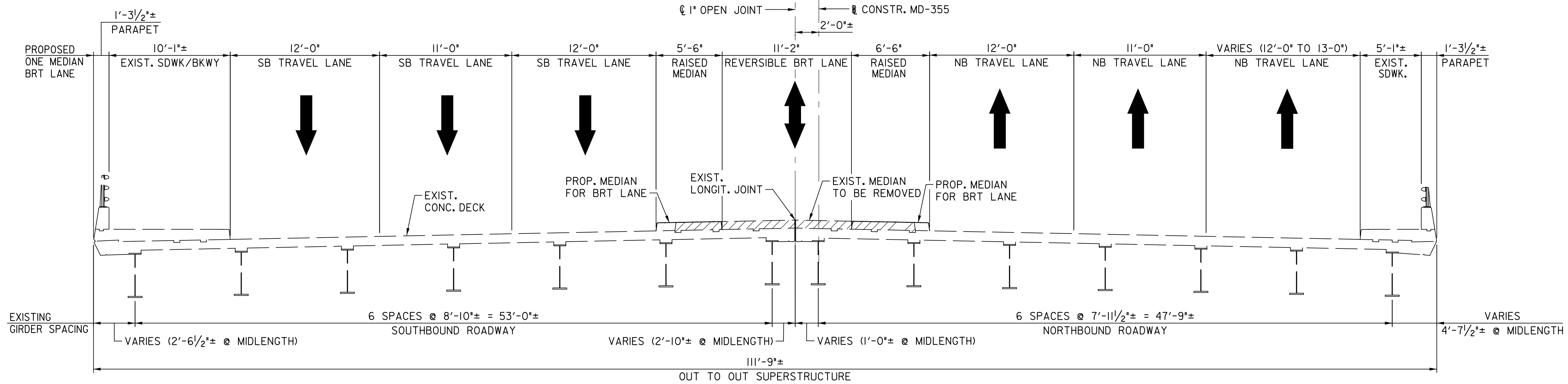
Designed by : _____ Drawn by : _____ Checked by : _____

MD 355 BUS RAPID TRANSIT (BRT)

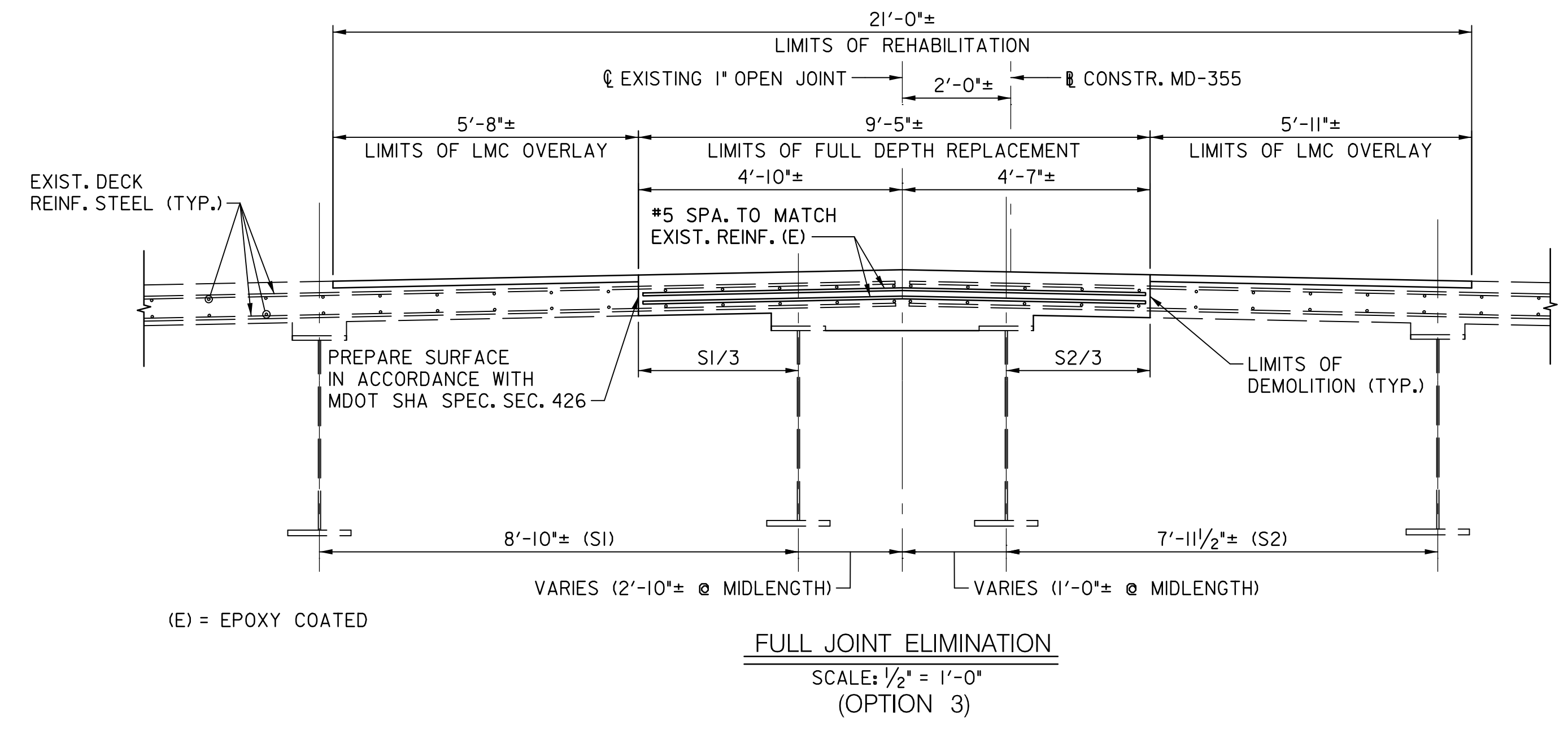
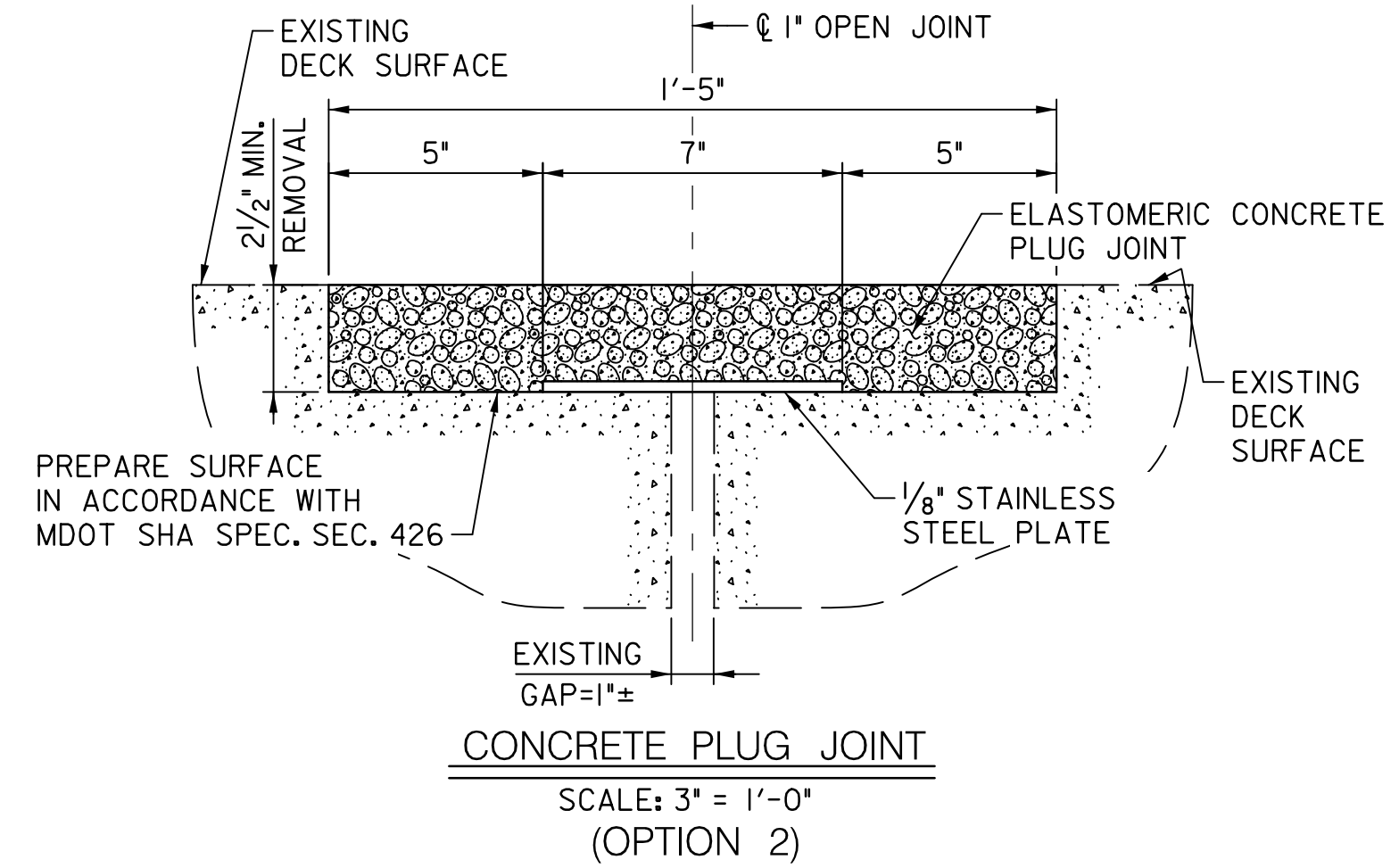
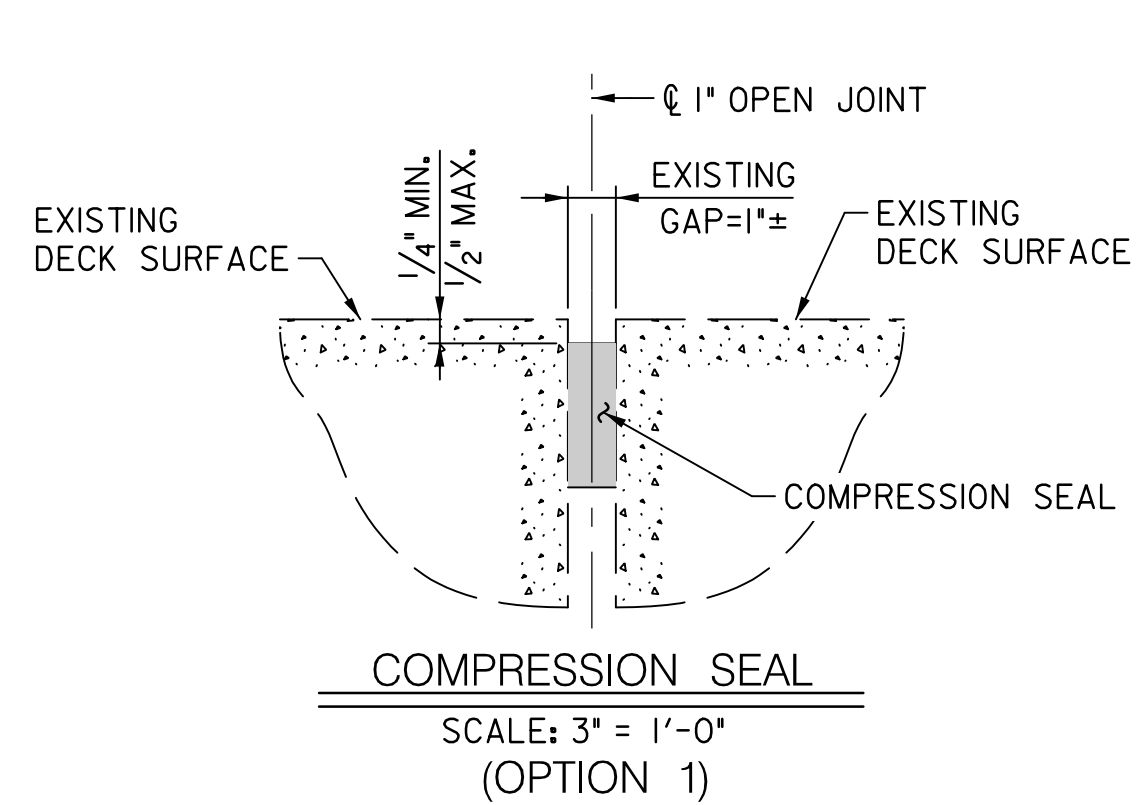
STRUCTURAL GENERAL NOTES

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 741 of 887



BRIDGE NO. 150055001
 FREDERICK ROAD (MD 355) OVER GREAT SENECA CREEK
 SCALE: 1" = 5'-0"
 (STA. 6063+95.50 TO STA. 6066+80.92)



- NOTES:
- FOR COMPRESSION SEAL NOTES, REFER TO MDOT SHA STD. DETAIL NO. SUP-JT(JS)-101.
 - FOR COMPRESSION SEAL REQUIREMENTS, REFER TO MDOT SHA SPEC. SEC. 911.04.

MEDIAN SEQUENCE OF CONSTRUCTION

- ENSURE ALL MEDIAN CLOSURE SIGNS AND MARKINGS ARE IN PLACE. INSTALL MAINTENANCE OF TRAFFIC DEVICES AND EROSION AND SEDIMENT CONTROLS.
- DURING LANE CLOSURE HOURS AS ALLOWED BY PERMITS, CLOSE LEFT LANES ADJACENT TO THE MEDIAN SCHEDULED FOR DEMOLITION.
- CONDUCT A FULL DEPTH SAW CUT OF THE EXISTING MEDIAN. THE SAW CUT SHALL BE MADE 1" BELOW THE TOP OF THE ADJACENT CONCRETE DECK.
- DEMOLITION THE MEDIAN AS INDICATED IN THESE CONTRACT DOCUMENTS.
- THE DEMOLITION OF THE EXISTING DECK SHALL BE MADE 1/2" MAXIMUM BELOW TO TOP OF DECK. THE CONTRACTOR SHALL ENSURE THAT THE DECK DEMOLITION LIMITS ARE NOT EXCEEDED AS SHOWN IN THE CONTRACTOR DOCUMENTS. DEMOLITION BEYOND THE LIMITS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- PLACE LMC OVERLAY IN ACCORDANCE WITH THE MDOT SHA SPECIFICATION SECTION 462 AND THE CONTRACT DOCUMENTS TO MATCH THE EXISTING ELEVATIONS AND CROSS SLOPES OF THE EXISTING DECK.
- CAST THE PROPOSED REVERSIBLE BRT LANE MEDIANS WITH REINFORCED CONCRETE AS INDICATED IN THESE CONTRACT DOCUMENTS.

OPTION 1: COMPRESSION SEAL
 PROS
 - LIMITED DECK IMPACT.

CONS
 - LEAST DURABLE OPTION.

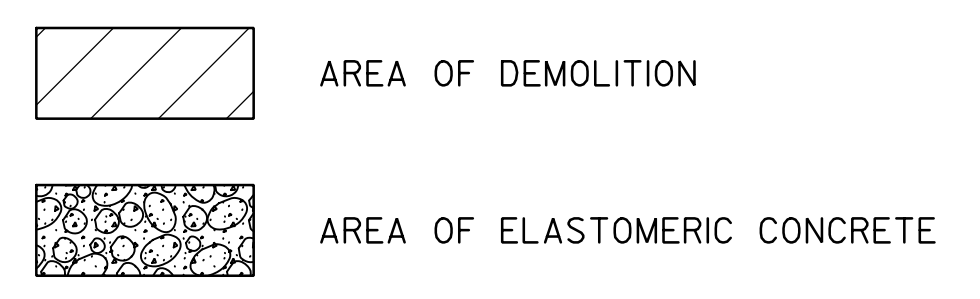
OPTION 2: CONCRETE PLUG JOINT
 PROS
 - REDUCED DECK IMPACT.
 - REDUCED FUTURE MAINTENANCE COMPARED TO COMPRESSION SEAL.

CONS
 - LIMITED USAGE HISTORY. VDOT RETROFITTING TRANSVERSE JOINTS WITH THIS SYSTEM.

OPTION 3: FULL JOINT ELIMINATION
 PROS
 - FUTURE MAINTENANCE MINIMIZED.

CONS
 - SIGNIFICANT DECK IMPACT/RECONSTRUCTION.

LEGEND



S-2

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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

Chief, Design Section _____ Date _____
 APPROVED

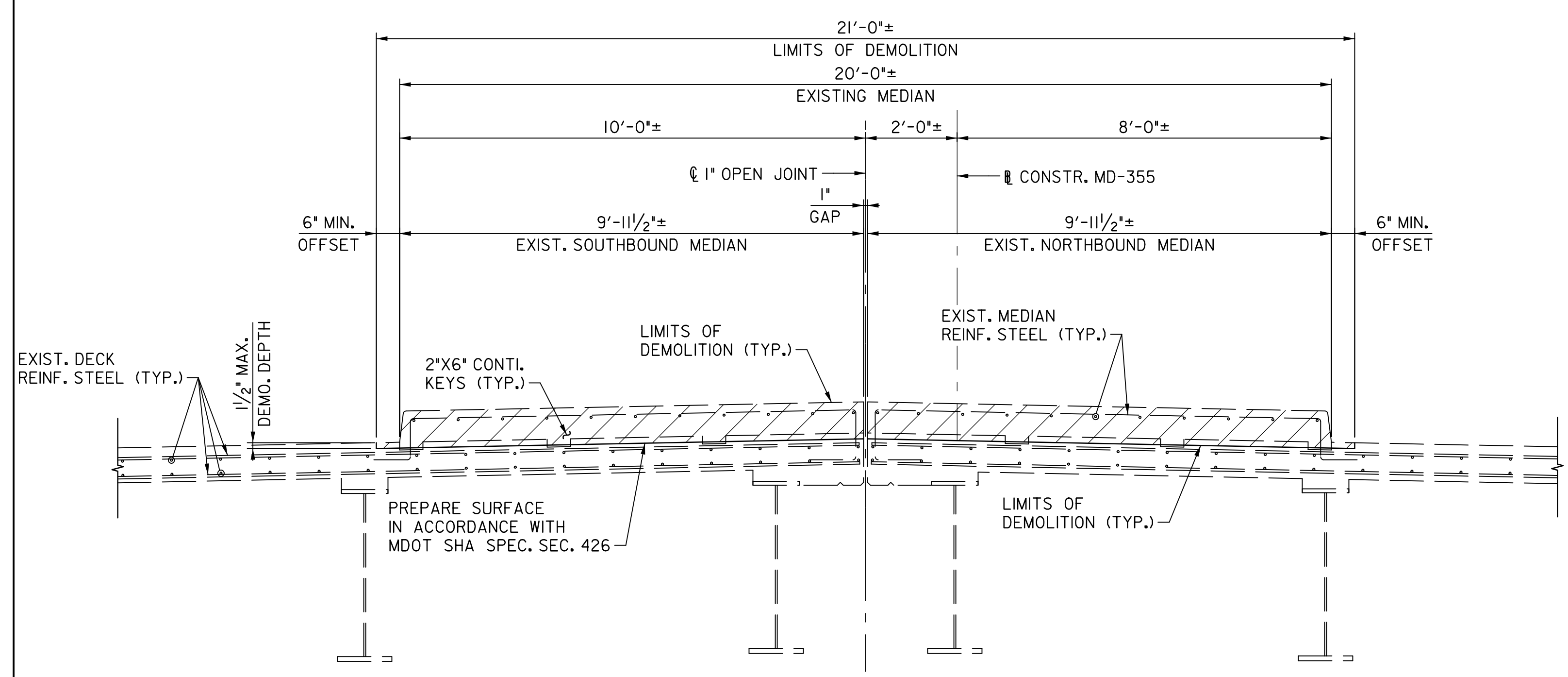
Chief, Division of Transportation Engineering _____ Date _____

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

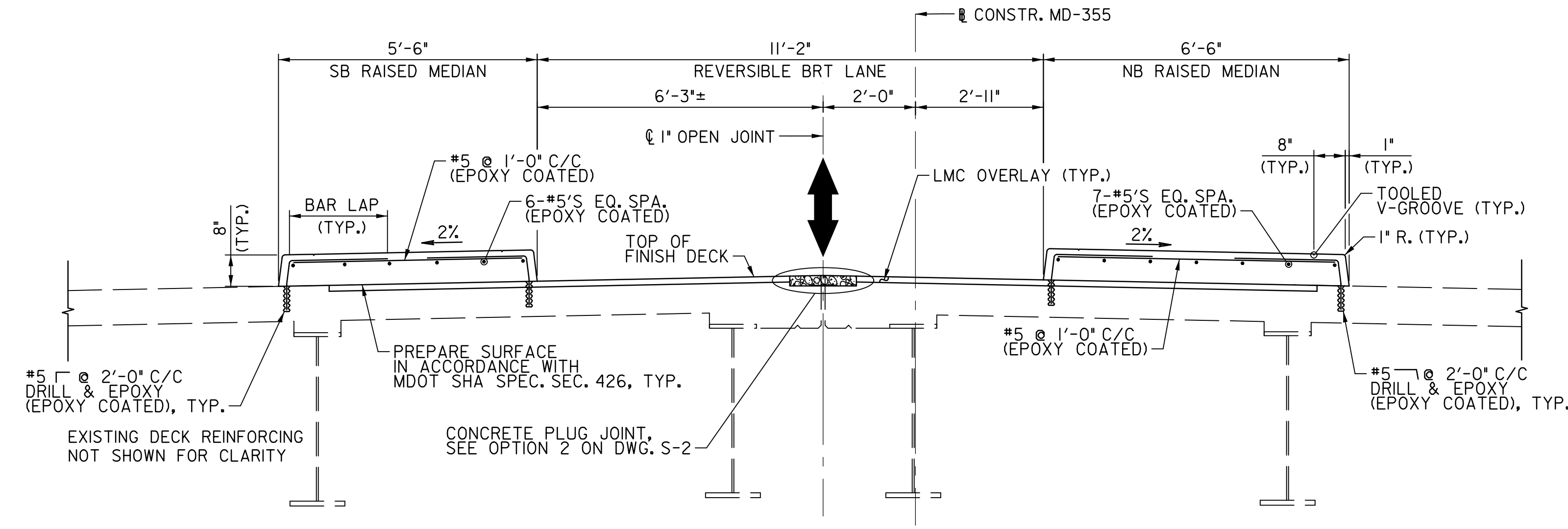
MD 355 BUS RAPID TRANSIT (BRT)
 BRIDGE NO. 150055001
 FREDERICK ROAD (MD ROUTE 355)
 OVER GREAT SENECA CREEK
 TYPICAL SECTION

SCALE : 1" = 5' DATE : DECEMBER 2022
 Project No. : 502005 SHEET 742 of 887

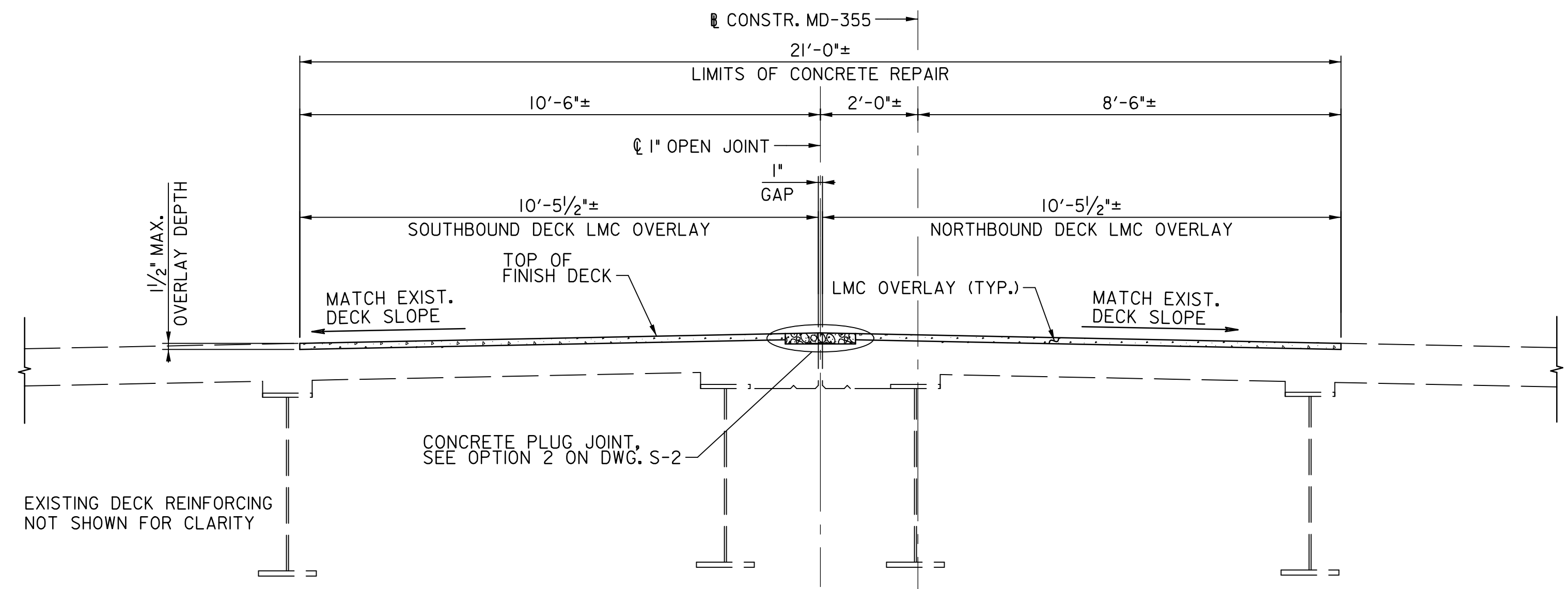
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DEMOLITION DETAILS
SCALE: 1/2" = 1'-0"



RAISED MEDIAN DETAILS
SCALE: 1/2" = 1'-0"



LMC OVERLAY DETAILS
SCALE: 1/2" = 1'-0"

LEGEND

- AREA OF DEMOLITION
- AREA OF LMC OVERLAY
- AREA OF ELASTOMERIC CONCRETE

- NOTES:**
1. FOR GENERAL NOTES, REFER TO DWG. S-1.
 2. FOR SEQUENCE OF DEMOLITION, REFER TO DWG. S-2.
 3. FOR SEQUENCE OF MEDIAN CONSTRUCTION, REFER TO DWG. S-2.
 4. FOR CONCRETE REPAIR TYPES AND PROCEDURES, REFER TO DWG. S-6.

S-3

Stantec
6110 FROST PLACE,
LAUREL, MARYLAND 20707
(301) 982-2900
www.stantec.com

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OF MARYLAND.
LICENSE NO: _____ EXPIRATION DATE: _____

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

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Chief, Design Section _____ Date _____
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Chief, Division of Transportation Engineering _____ Date _____

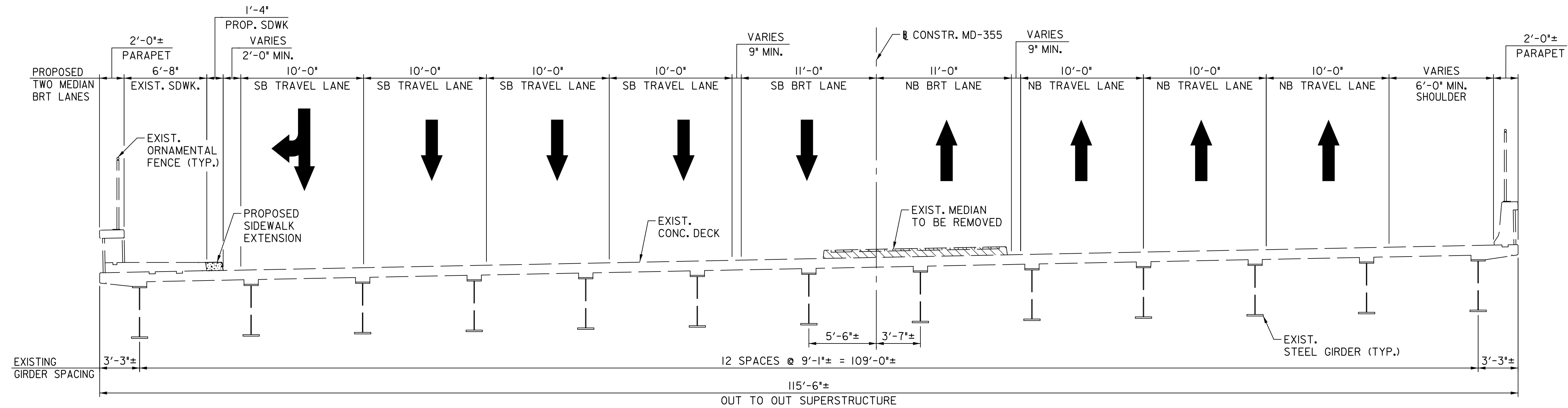
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MD 355 BUS RAPID TRANSIT (BRT)
BRIDGE NO. 15055001
FREDERICK ROAD (MD ROUTE 355)
OVER GREAT SENECA CREEK
DECK MODIFICATION DETAILS

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 743 of 887

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BRIDGE NO. 150194001
ROCKVILLE PIKE (MD 355) BRIDGE OVER MONTROSE PARKWAY
 SCALE: 1" = 5'-0"
 (STA. 2104 + 49.45 TO STA. 2106 + 28.47)

MEDIAN SEQUENCE OF CONSTRUCTION

1. ENSURE ALL MEDIAN CLOSURE SIGNS AND MARKINGS ARE IN PLACE. INSTALL MAINTENANCE OF TRAFFIC DEVICES AND EROSION AND SEDIMENT CONTROLS.
2. DURING LANE CLOSURE HOURS AS ALLOWED BY PERMITS, CLOSE LEFT LANES ADJACENT TO THE MEDIAN SCHEDULED FOR DEMOLITION.
3. CONDUCT A FULL DEPTH SAW CUT OF THE EXISTING MEDIAN. THE SAW CUT SHALL BE MADE 1" BELOW THE TOP OF THE ADJACENT CONCRETE DECK.
4. DEMOLITION THE MEDIAN AS INDICATED IN THESE CONTRACT DOCUMENTS.
5. THE DEMOLITION OF THE EXISTING DECK SHALL BE MADE 1/2" MAXIMUM BELOW TO TOP OF DECK. THE CONTRACTOR SHALL ENSURE THAT THE DECK DEMOLITION LIMITS ARE NOT EXCEEDED AS SHOWN IN THE CONTRACTOR DOCUMENTS. DEMOLITION BEYOND THE LIMITS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
6. PLACE LMC OVERLAY IN ACCORDANCE WITH THE MDOT SHA SPECIFICATION SECTION 462 AND THE CONTRACT DOCUMENTS TO MATCH THE EXISTING ELEVATIONS AND CROSS SLOPES OF THE EXISTING DECK.

S-4



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	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by : _____	Drawn by : _____
Checked by : _____	

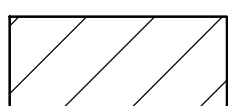
MD 355 BUS RAPID TRANSIT (BRT)
BRIDGE NO. 150194001
ROCKVILLE PIKE (MD ROUTE 355)
OVER MONTROSE PARKWAY
TYPICAL SECTION


SCALE : 1" = 5' DATE : DECEMBER 2022

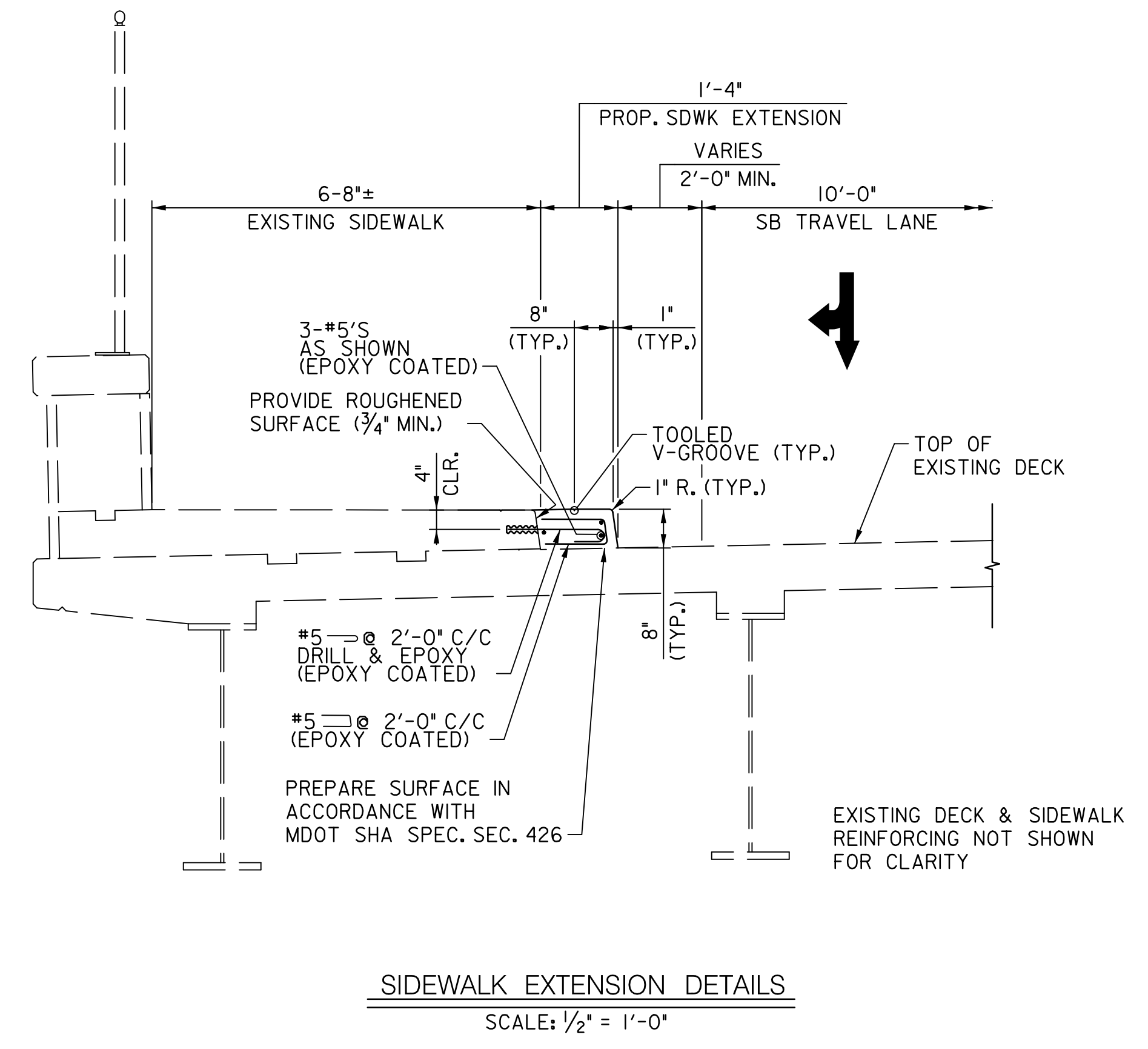
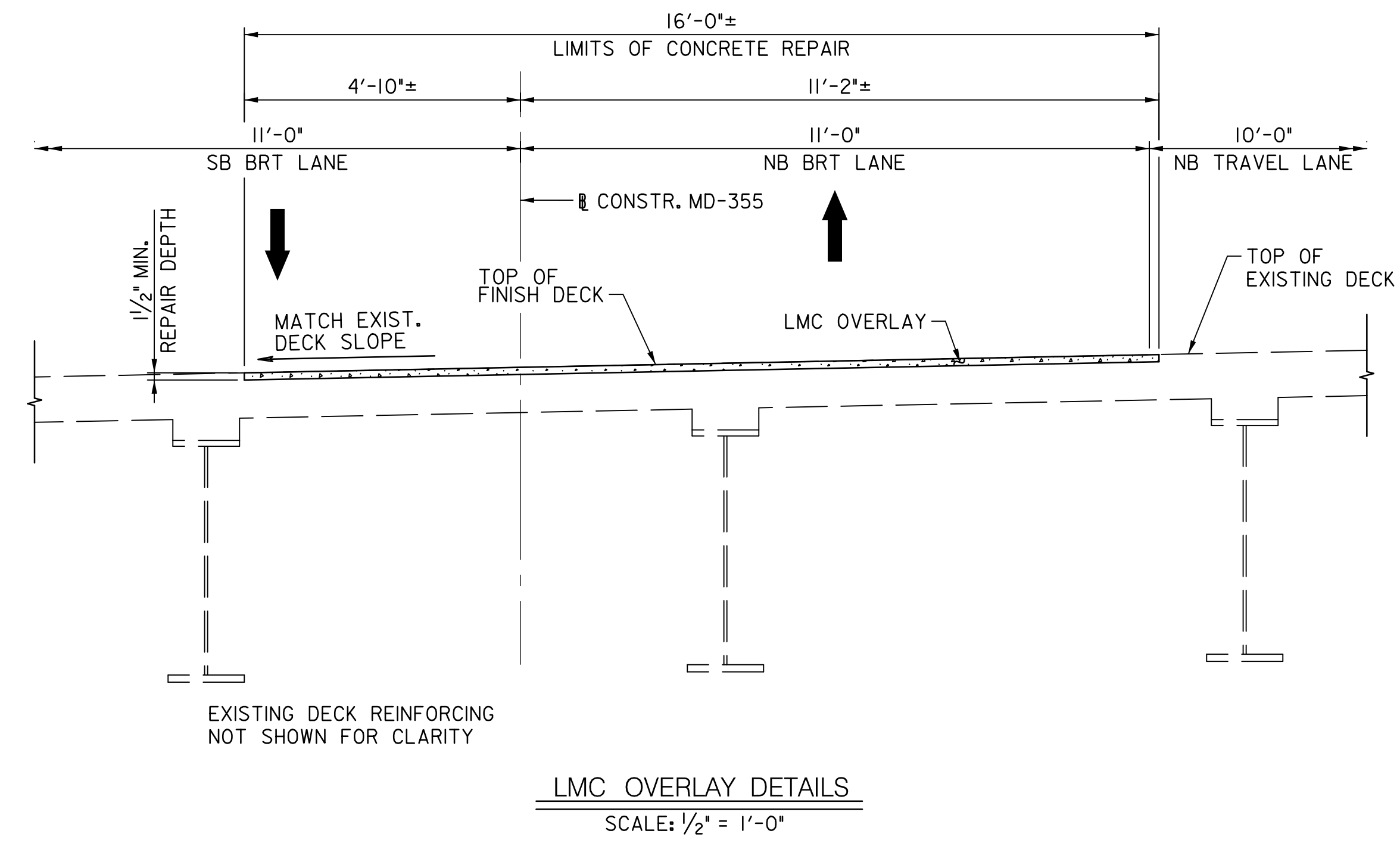
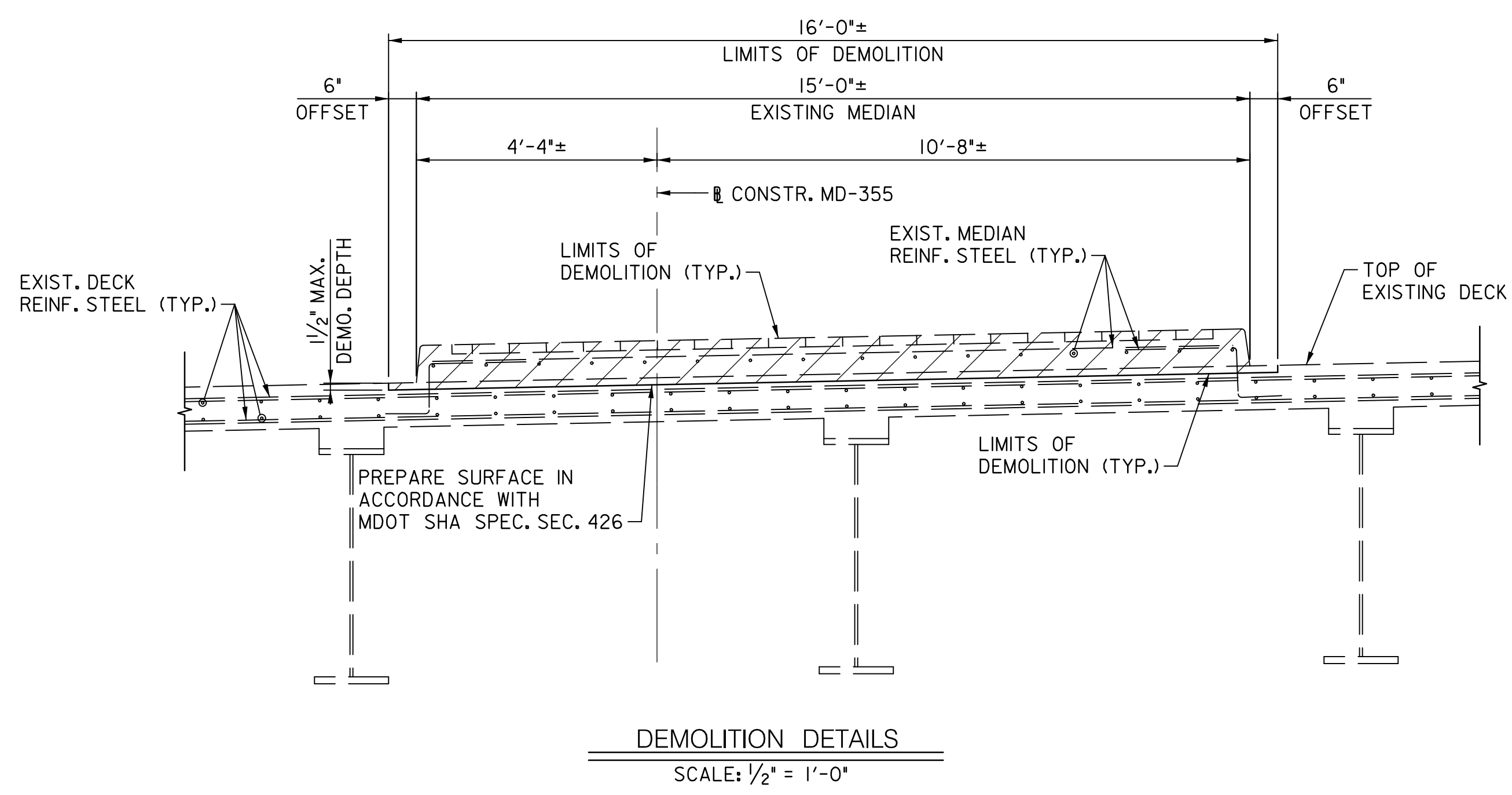
Project No. : 502005 SHEET 744 of 887

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LEGEND

 AREA OF DEMOLITION

 AREA OF LMC OVERLAY



- NOTES:**
1. FOR GENERAL NOTES, REFER TO DWG. S-1.
 2. FOR SEQUENCE OF DEMOLITION, REFER TO DWG. S-4.
 3. FOR SEQUENCE OF SIDEWALK CONSTRUCTION, REFER TO DWG. S-4.
 4. FOR CONCRETE REPAIR TYPES AND PROCEDURES, REFER TO DWG. S-6.

S-5



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DIVISION OF TRANSPORTATION ENGINEERING
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

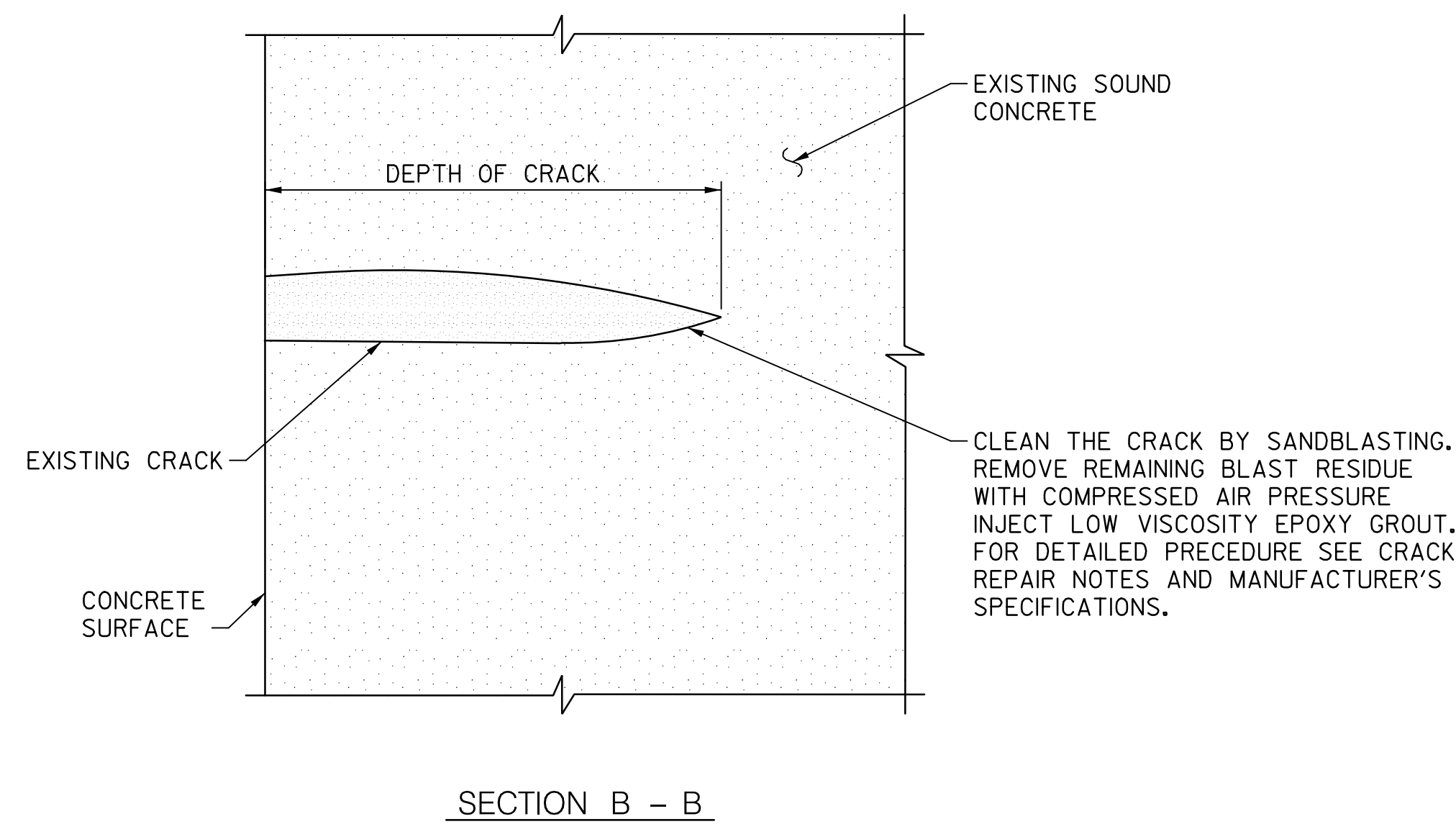
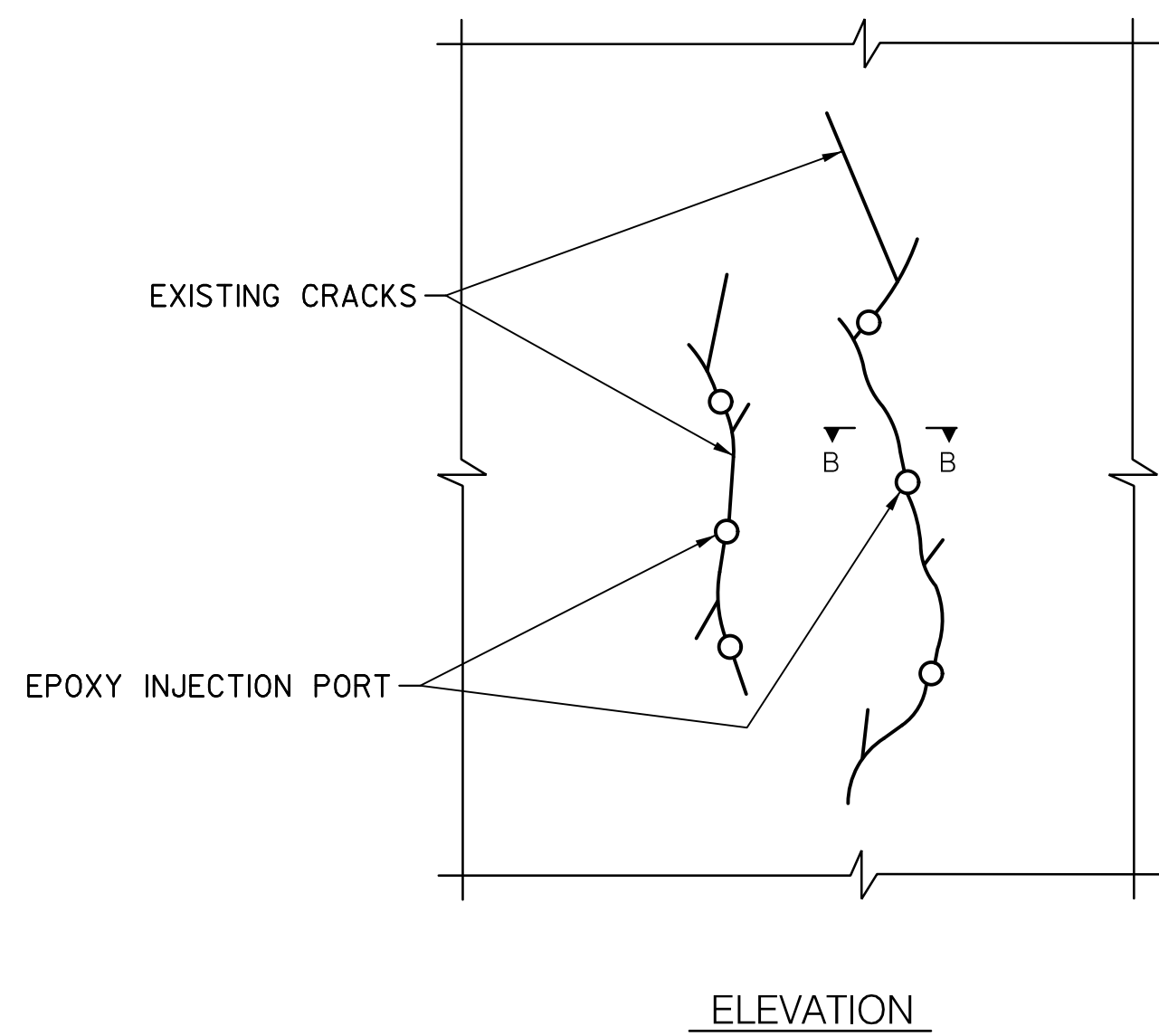
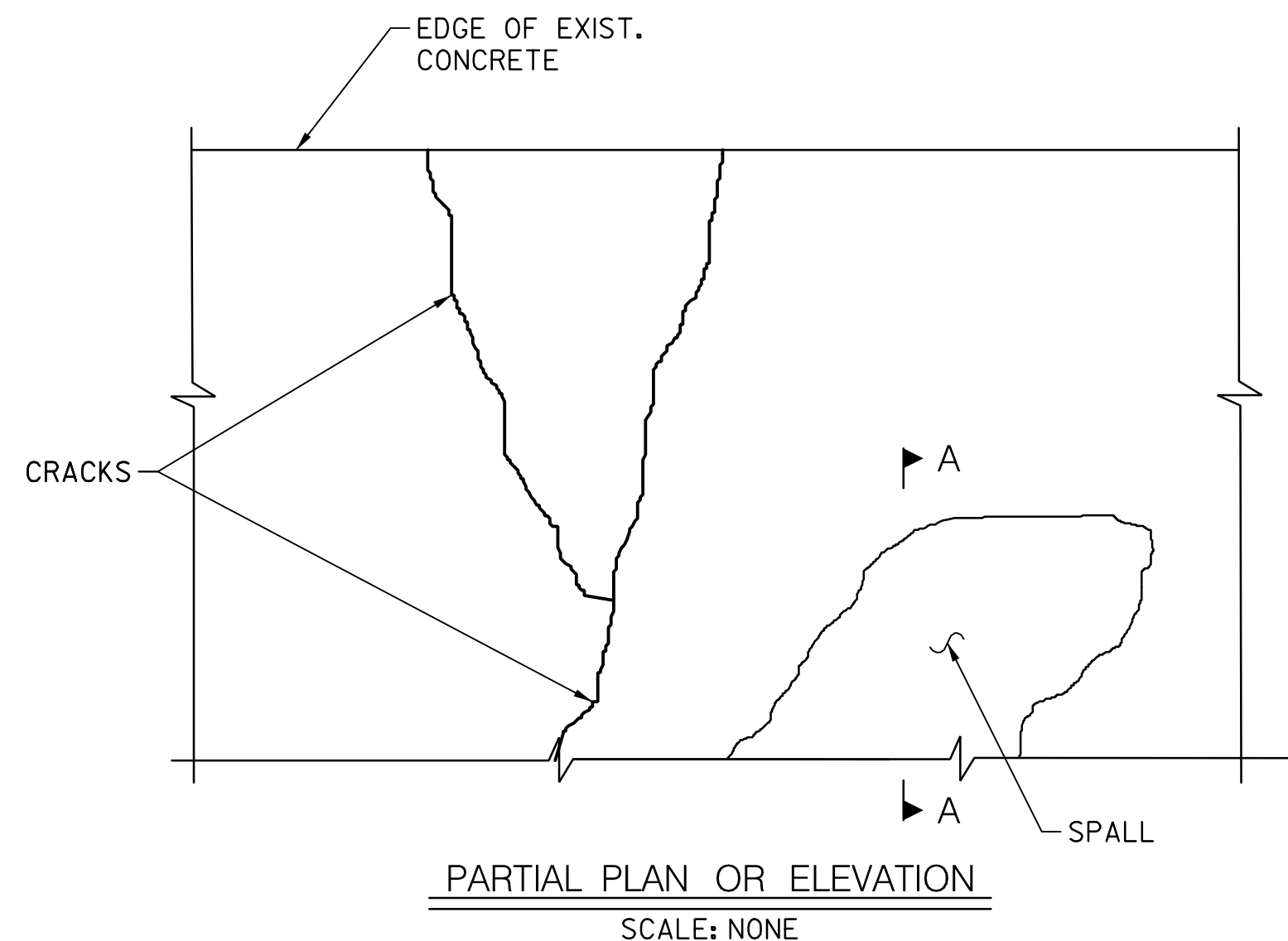
Chief, Division of Transportation Engineering _____ Date _____

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

MD 355 BUS RAPID TRANSIT (BRT)
BRIDGE NO. 150194001
ROCKVILLE PIKE (MD ROUTE 355)
OVER MONTROSE PARKWAY
DECK MODIFICATION DETAILS

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 745 of 887



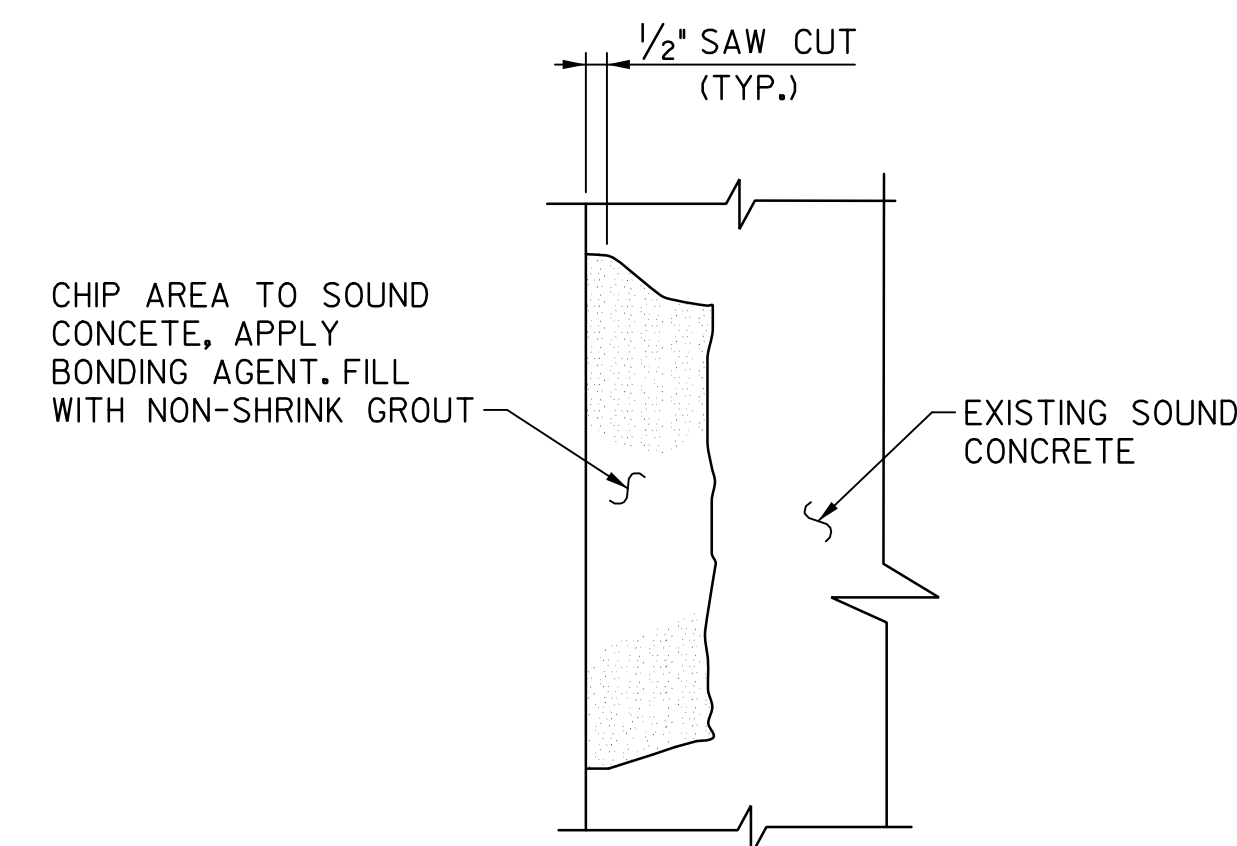
REPAIR TYPE 1
CRACK REPAIR
SCALE: NONE

REPAIR TYPE 1 – CRACK REPAIR:

- CLEAN ALL CRACKS OF LOOSE MATTER SUCH AS DIRT, LAITANCE, OIL, GREASE, SALT AND ANY OTHER CONTAMINANTS.
- APPLY SURFACE SEAL MATERIAL (USE SIKADUR 31 HI-MOD GEL BY SIKA CORPORATION OR APPROVED EQUAL) ACROSS THE FACE OF THE CONCRETE TO ENCLOSE THE CRACK.
- ESTABLISH OPENINGS (ENTRY PORTS) IN THE SURFACE SEAL AT 4" TO 18" APART.
- AFTER THE SURFACE SEAL SETS, INJECT LOW VISCOSITY EPOXY GROUT AT THE LOWEST PORT. USE SIKADUR 35 HI-MOD LV BY SIKA CORPORATION OR APPROVED EQUAL. CONTINUE INJECTION UNTIL RESIN BEGINS TO FLOW OUT OF THE PORT AT THE NEXT HIGHER LEVEL.
- REPEAT THE PROCEDURE UNTIL ALL PORTS HAVE BEEN FILLED.
- CURE AS PER THE MANUFACTURER'S SPECIFICATIONS.
- REMOVE SURFACE SEAL MATERIAL AND INJECTION PORTS AND APPLY EPOXY GROUT AS REQUIRED TO FINISH THE CRACK.

REPAIR TYPE 2 – CONCRETE REPAIR:

- SAW CUT AT LEAST 1/2" DEEP AROUND EDGE OF DESIGNATED REPAIR AREA.
- REMOVE DETERIORATED CONCRETE. IF REINFORCING STEEL IS ENCOUNTERED, REMOVE SOUND CONCRETE TO A DEPTH OF AT LEAST 1/2" CLEAR OF DEEPEST REINFORCEMENT.
- SQUARE CUT (UNDERCUT OR BEVEL CUT) EXISTING CONCRETE TO KEY IN NEW CONSTRUCTION.
- IF ENCOUNTERED SANDBLAST AND/OR WIRE BRUSH EXISTING REINFORCEMENT BARS.
- CLEAN CONCRETE REPAIR SURFACE. PREPARE SURFACE PER INTERNATIONAL CONCRETE REPAIR INSTITUTE (ICRI) "TECHNICAL GUIDELINES" GUIDELINE NOS. 310.IR-2008 AND 310.2R-2013.
- PLACE 3/8" DIA. CONCRETE ANCHORS AS NOTED OR AS DIRECTED BY THE ENGINEER AND SECURE WELDED WIRE FABRIC TO EXISTING REINFORCEMENT AND/OR ANCHORS. WELDED WIRE FABRIC SHALL BE TIED AT A MAXIMUM SPACING OF 16" IN EACH DIRECTION.
- SET FORMS MAINTAINING ALL CHAMFERS AND APPLY BOND BREAKER TO FORMS. PROVIDE ADEQUATE PORTS IN FORMS FOR APPLYING EPOXY GROUT. THE FORMS SHALL BE REMOVABLE.
- PRIME EXPOSED EXISTING REINFORCEMENT, WIRE FABRIC AND ANCHORS WITH ZINK RICH PRIMER (USE SIKA ARMATEC 10 ZR BY SIKA CORPORATION OR APPROVED EQUAL). APPLY EPOXY RESIN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- PRIME EXPOSED CONCRETE SURFACES WITH EPOXY RESIN (SIKADUR-32 HI-MOD BY SIKA CORPORATION OR APPROVED EQUAL). APPLY EPOXY RESIN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. BONDING COMPOUND SHALL BE IN "TACKY" CONDITION IMMEDIATELY PRIOR TO PLACING REPAIR CONCRETE.
- FILL CAVITY WITH EPOXY GROUT (SIKADUR-42 GROUT PAK LE BY SIKA CORPORATION OR APPROVED EQUAL). FINISH AND CURE CONCRETE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- FINISH SURFACE TO MATCH COLOR AND TEXTURE OF EXISTING SURFACE.



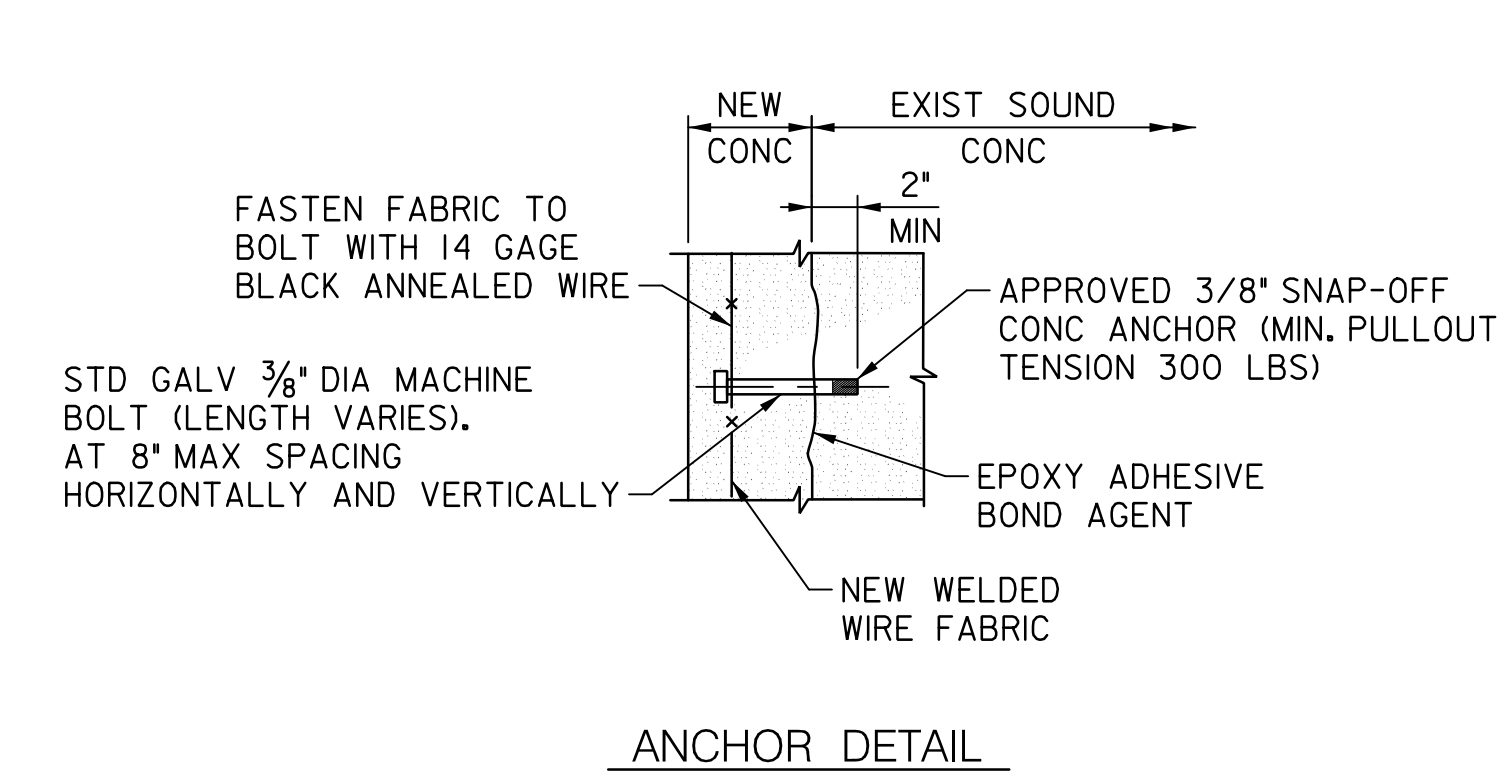
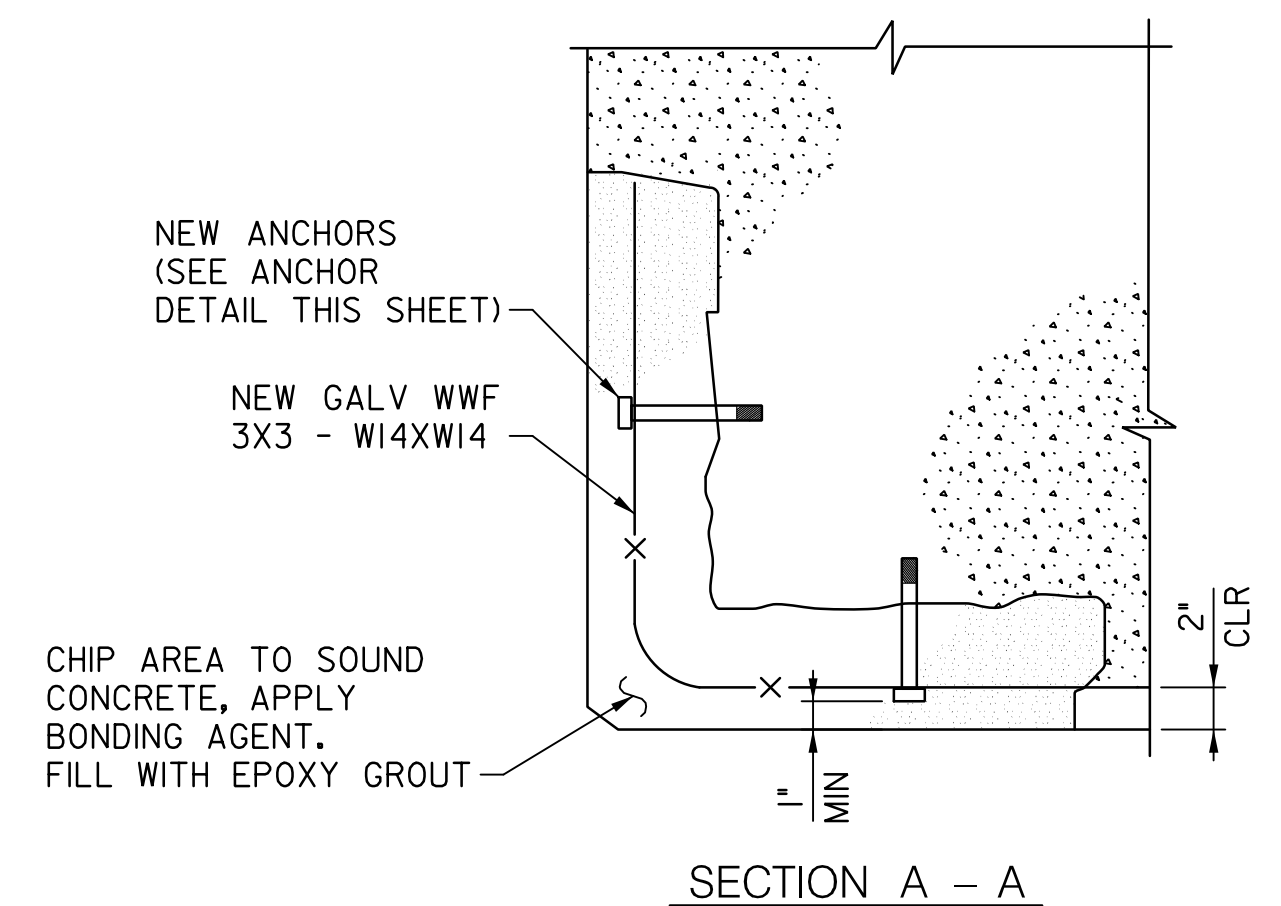
REPAIR TYPE 3
NON-SHRINK GROUT REPAIR
SCALE: NONE

REPAIR TYPE 3 – NON-SHRINK GROUT REPAIR:

- SAW CUT AT LEAST 1/2" DEEP AROUND EDGE OF DESIGNATED REPAIR AREA.
- REMOVE DETERIORATED CONCRETE TO A ROUGH PLANE SURFACE.
- CLEAN EXPOSED SOUND CONCRETE. IF ENCOUNTERED SANDBLAST AND/OR WIRE BRUSH EXISTING REINFORCEMENT BARS. PREPARE SURFACE PER INTERNATIONAL CONCRETE REPAIR INSTITUTE (ICRI) "TECHNICAL GUIDELINES" GUIDELINE NOS. 310.IR-2008 AND 310.2R-2013.
- SET FORMS MAINTAINING ALL CHAMFERS AND APPLY BOND BREAKER TO FORMS. PROVIDE ADEQUATE PORTS IN FORMS FOR APPLYING EPOXY GROUT. THE FORMS SHALL BE REMOVABLE.
- PRIME EXPOSED EXISTING REINFORCEMENT, WIRE FABRIC AND ANCHORS WITH ZINK RICH PRIMER (USE SIKA ARMATEC 10 ZR BY SIKA CORPORATION OR APPROVED EQUAL). APPLY EPOXY RESIN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- PRIME EXPOSED CONCRETE SURFACES WITH EPOXY RESIN (USE SIKADUR-32 HI-MOD BY SIKA CORPORATION OR APPROVED EQUAL). APPLY EPOXY RESIN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. BONDING COMPOUND SHALL BE IN "TACKY" CONDITION IMMEDIATELY PRIOR TO PLACING REPAIR CONCRETE.
- FILL CAVITY WITH NON-SHRINK GROUT (SIKADUR-42 GROUT PAK LE BY SIKA CORPORATION OR APPROVED EQUAL). FINISH AND CURE GROUT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- FINISH SURFACE TO MATCH COLOR AND TEXTURE OF EXISTING SURFACE.

NOTES:

- REPAIR TYPE 2 APPLIES TO ALL CASES WHERE MAXIMUM DEPTH OF DETERIORATED CONCRETE EXCEEDS AT LEAST IN PART THE EXPOSED DEPTH OF REINFORCING OF THE MEMBER OR 2".
- REPAIR TYPE 3 APPLIES TO ALL CASES WHERE MAXIMUM DEPTH OF DETERIORATED CONCRETE DOES NOT EXCEED THE DEPTH OF REINFORCING OR 2".
- IN GENERAL, SPALLS LESS THAN 0.25SF SURFACE OR LESS THAN 1/2" DEEP NEED NOT BE REPAIRED UNLESS REINFORCING STEEL IS EXPOSED.
- REPAIRS SHALL BE MADE TO LEAST NEAT RECTANGULAR AREAS. THEREFORE, A PORTION OF EACH REPAIR WILL REQUIRE THE REMOVAL OF SOUND CONCRETE.
- LOCATIONS OF REPAIR TYPE TO BE DETERMINED BY THE ENGINEER.



ANCHOR DETAIL

REPAIR TYPE 2
CONCRETE REPAIR
SCALE: NONE



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

Chief, Design Section _____ Date _____
APPROVED

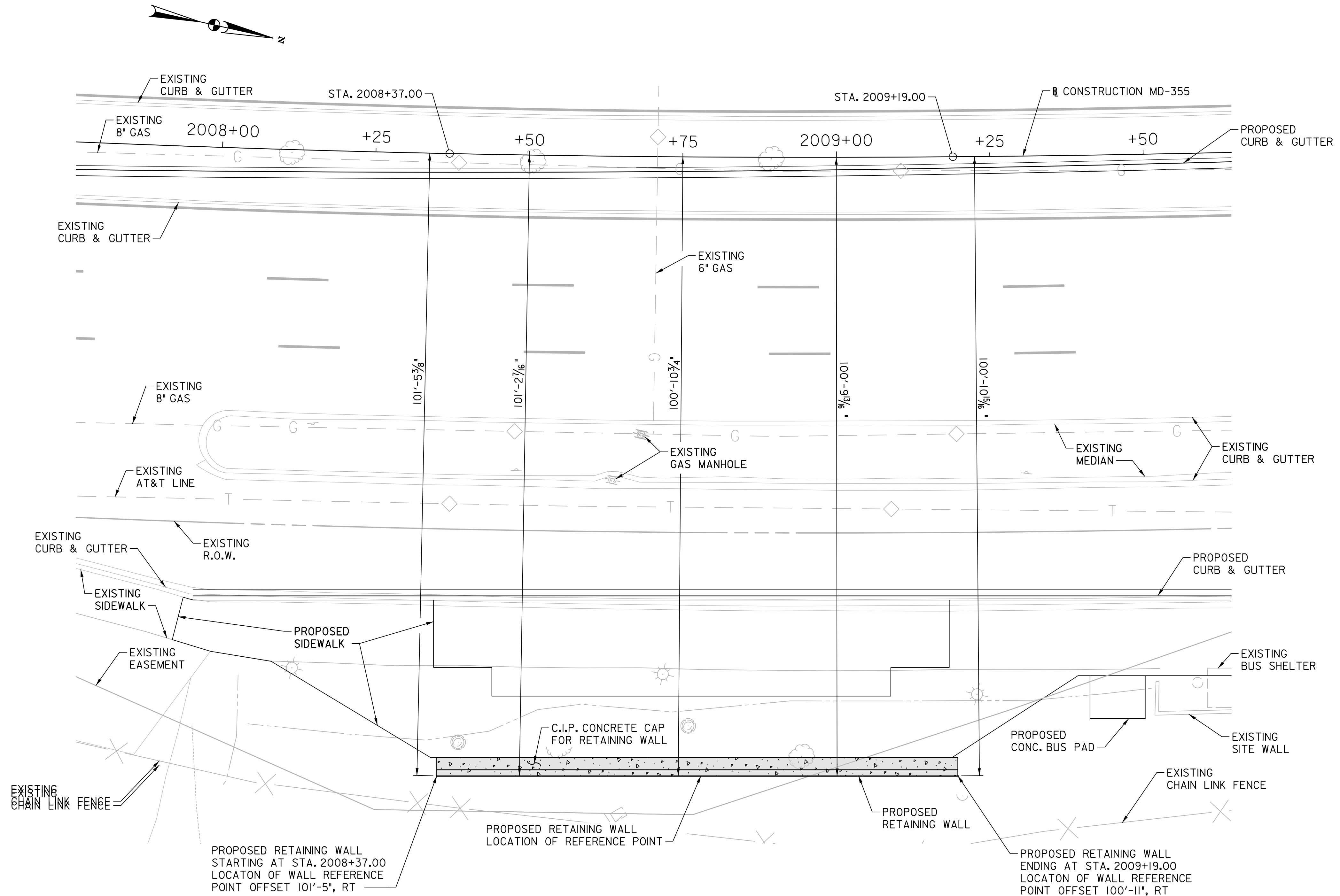
Chief, Division of Transportation Engineering _____ Date _____

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

MD 355 BUS RAPID TRANSIT (BRT)
CONCRETE REPAIR DETAILS

SCALE : AS SHOWN DATE : DECEMBER 2022
Project No. : 502005 SHEET 746 of 887

10/30/2022 P:\stntec-sc-pw\ben\tey.com\stntec-sc-pw-02\Documents\2026213\06\700 CAD\706 Struct\Concrete.Repairs.dgn



PLAN - RETAINING WALL NO. RW-200R
 STA. 2008+37.00 TO STA. 2009+19.00
 SCALE: 1" = 10'-0"

10/30/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\3106\700 CADD\706 Struct\RetWall_200R_Plan-Elev_M0355BRT.dgn

S-7



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

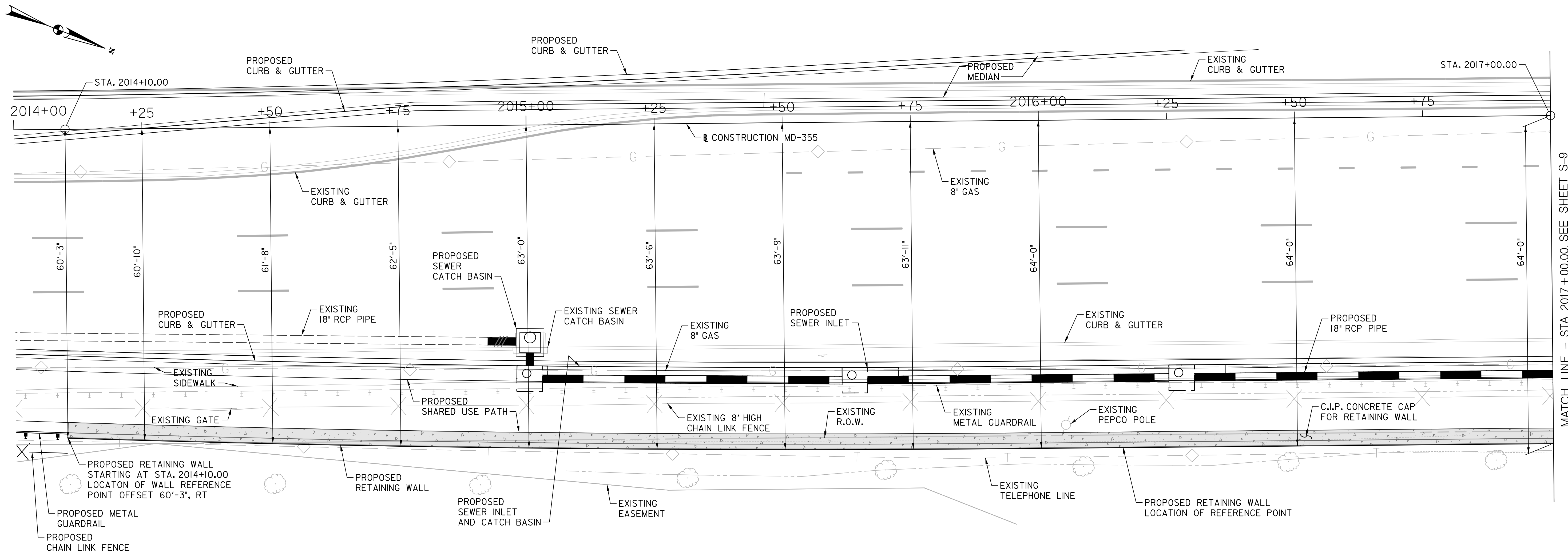
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by: _____	Drawn by: _____
Checked by: _____	

MD 355 BUS RAPID TRANSIT (BRT)
RETAINING WALL NO. RW-200R
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 747 of 887

10/30/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\3106\700 CAD\706 Struct\RetWall_201R_Plan-Elev_MD355BRT.dgn



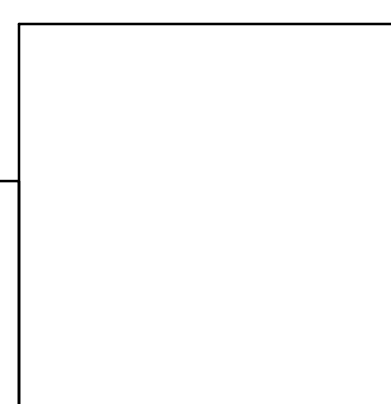
PLAN - RETAINING WALL NO. RW-201R
 STA. 2014+10.00 TO STA. 2018+20.00
 SCALE: 1" = 10'-0"

MATCH LINE - STA. 2017+00.00, SEE SHEET S-9

S-8



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

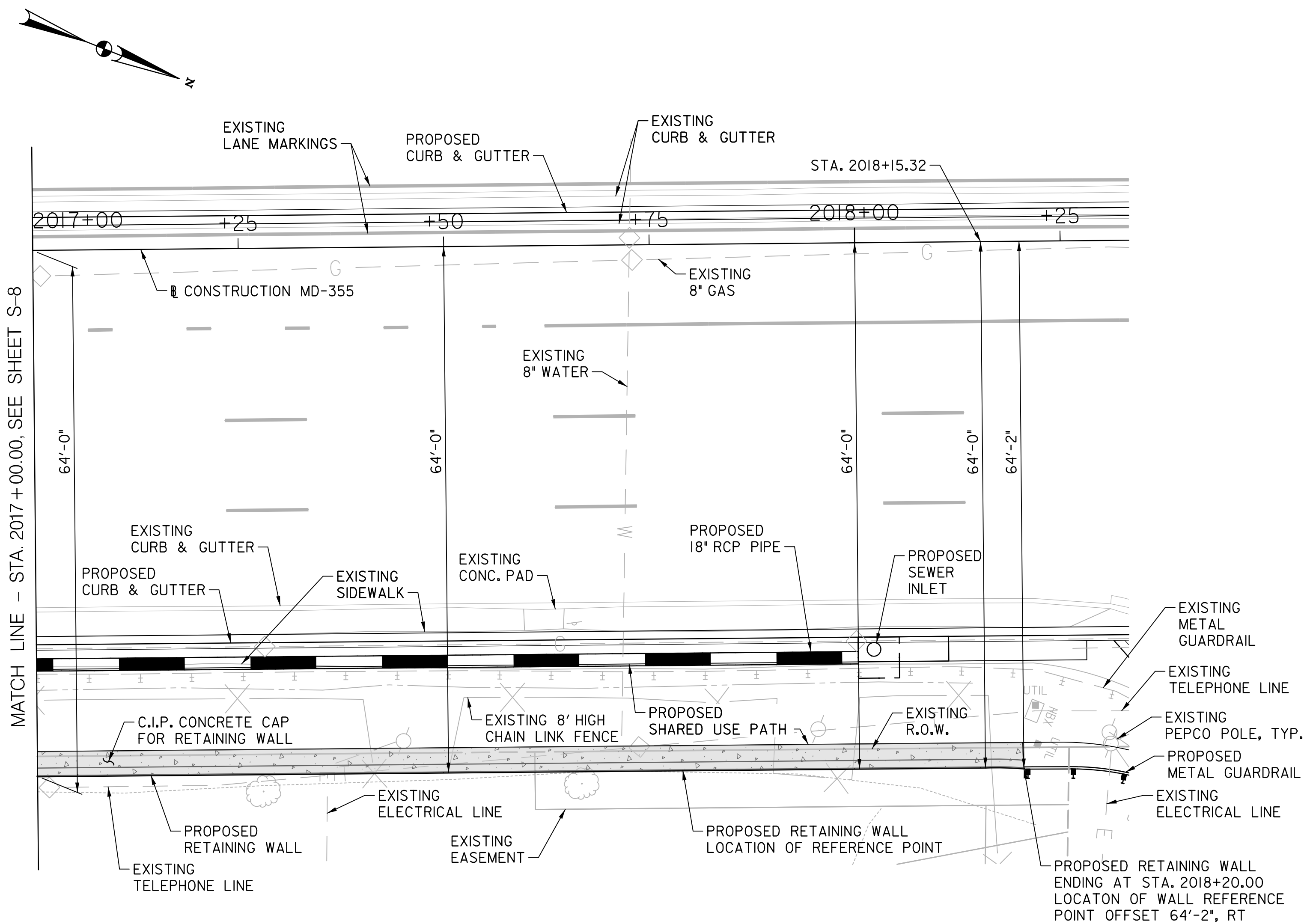
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-201R
 PLAN (1 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 748 of 887

10/30/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\2106\700 CADD\706 Struct\RetWall_201R_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-201R

STA. 2014+10.00 TO STA. 2018+20.00
SCALE: 1" = 10'-0"

S-9



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

Chief, Design Section _____ Date _____
APPROVED

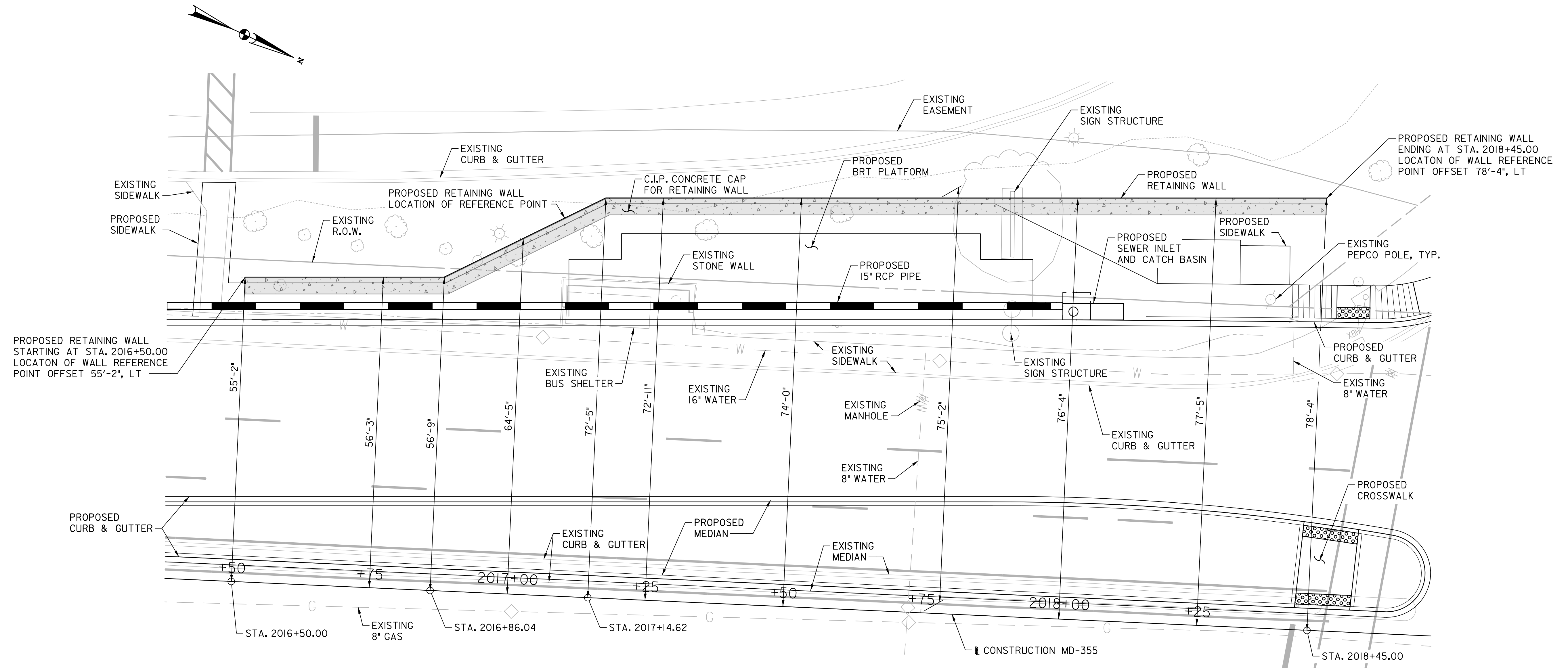
Chief, Division of Transportation Engineering _____ Date _____

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

MD 355 BUS RAPID TRANSIT (BRT)
RETAINING WALL NO. RW-201R
PLAN (2 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022
Project No. : 502005 SHEET 749 of 887

10/30/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_2021_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-202L
 STA. 2016+50.00 TO STA. 2018+20.00
 SCALE: 1" = 10'-0"

S-10



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

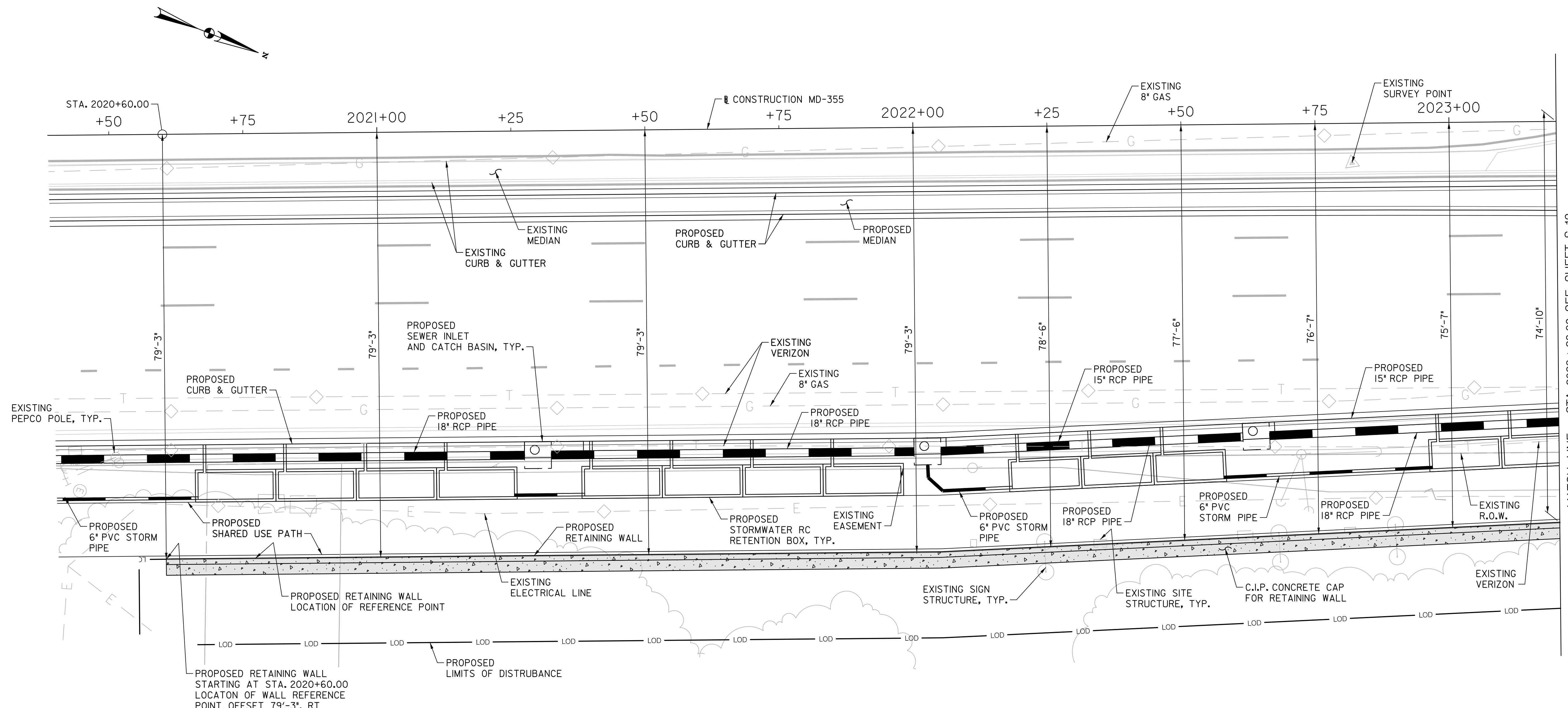
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-202L
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 750 of 887

10/30/2022 P:\stntec-sc-pw-bentley.com\stntec-sc-pw-02\Documents\2022\3106\700 CADD\706 Struct\RetWall_203R_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-203R
 STA. 2020+60.00 TO STA. 2024+10.00
 SCALE: 1" = 10'-0"

MATCH LINE - STA. 2023+20.00. SEE SHEET S-12

S-11



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

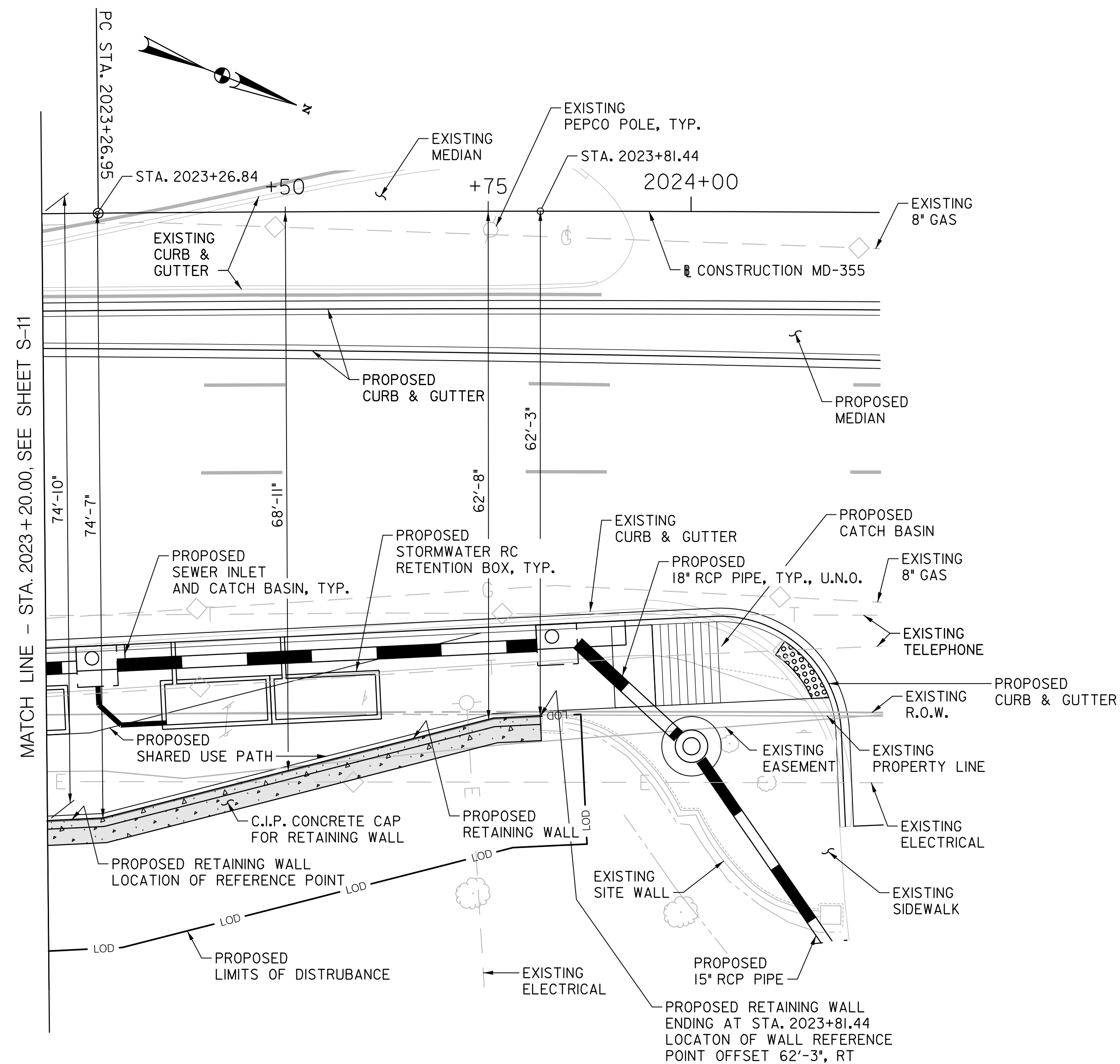
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-203R
 PLAN (1 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 751 of 887

10/30/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_203R_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-203R
 STA. 2020+60.00 TO STA. 2024+10.00
 SCALE: 1" = 10'-0"

S-12



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	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by: _____	Drawn by: _____
Checked by: _____	

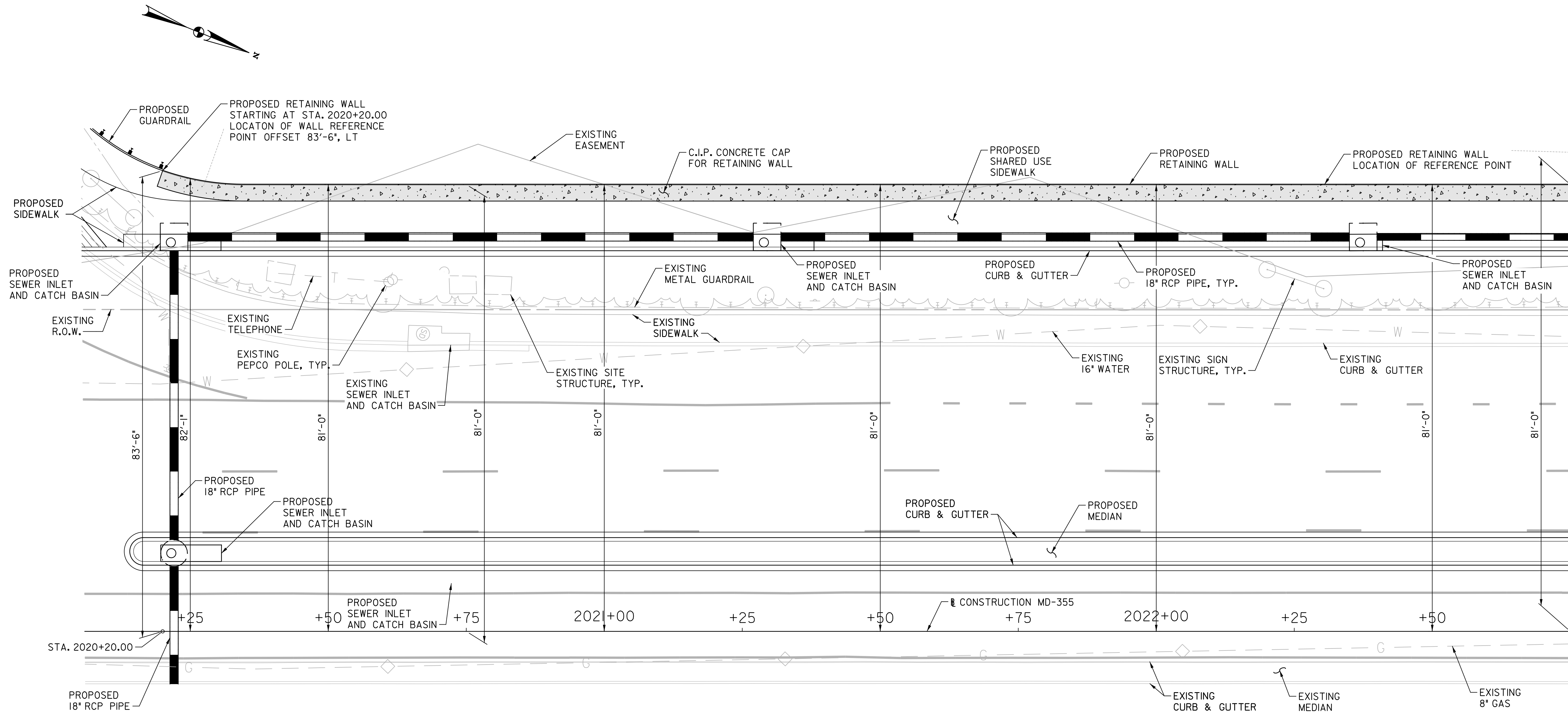
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-203R
 PLAN (2 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 752 of 887

10/30/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\3106\700 CADD\706 Struct\Elev\MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-204L
 STA. 2020+20.00 TO STA. 2032+90.00
 SCALE: 1" = 10'-0"

MATCH LINE - STA. 2022 + 75.00, SEE SHEET S-14

S-13



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

Chief, Design Section _____ Date _____
 APPROVED

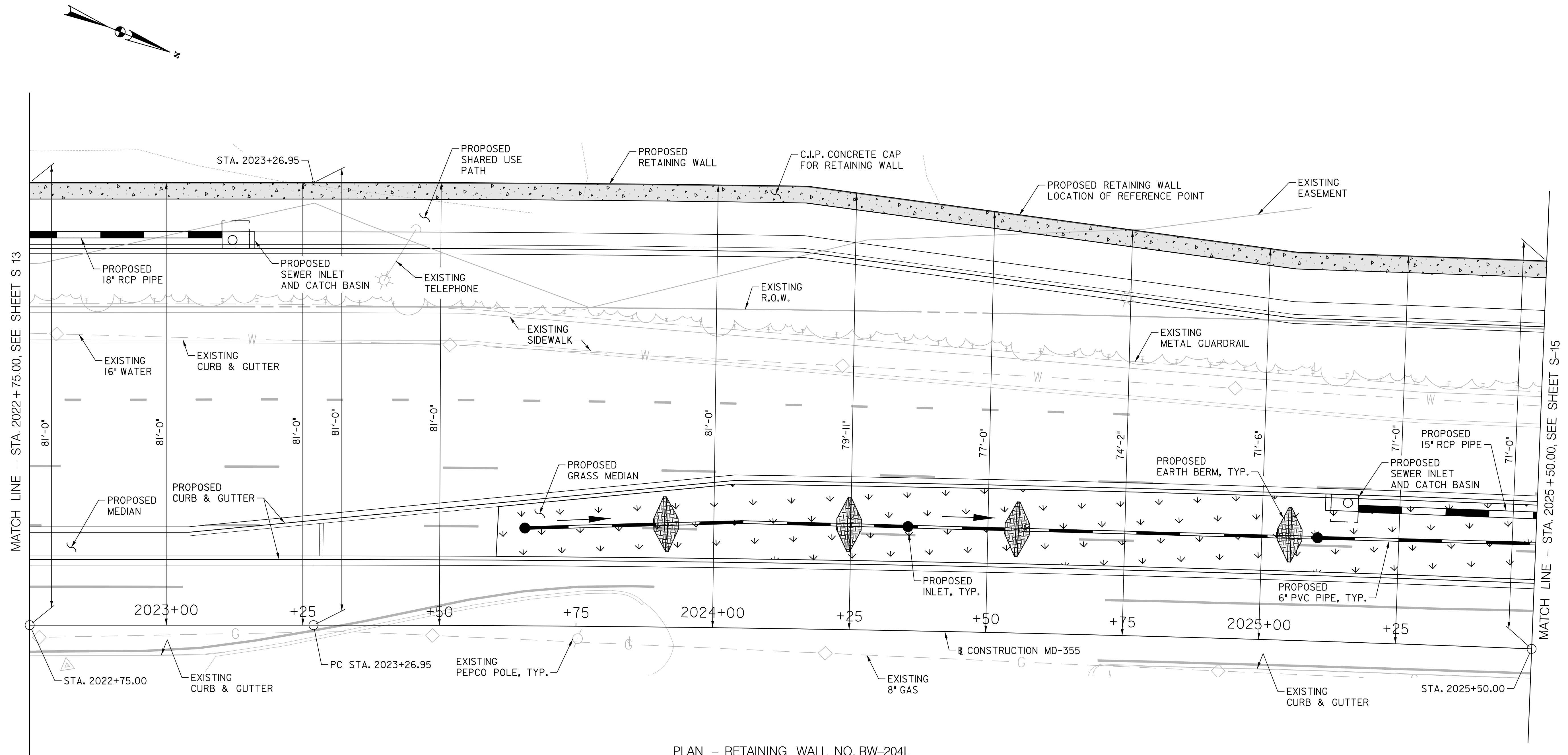
Chief, Division of Transportation Engineering _____ Date _____

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

MD 355 BUS RAPID TRANSIT (BRT)
RETAINING WALL NO. RW-204L
PLAN (1 OF 5)

SCALE : AS SHOWN DATE : DECEMBER 2022
 Project No. : 502005 SHEET 753 of 887

10/30/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\3106\700 CADD\706 Struct\RetWall_204L_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-204L
 STA. 2020+20.00 TO STA. 2032+90.00
 SCALE: 1" = 10'-0"

S-14



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

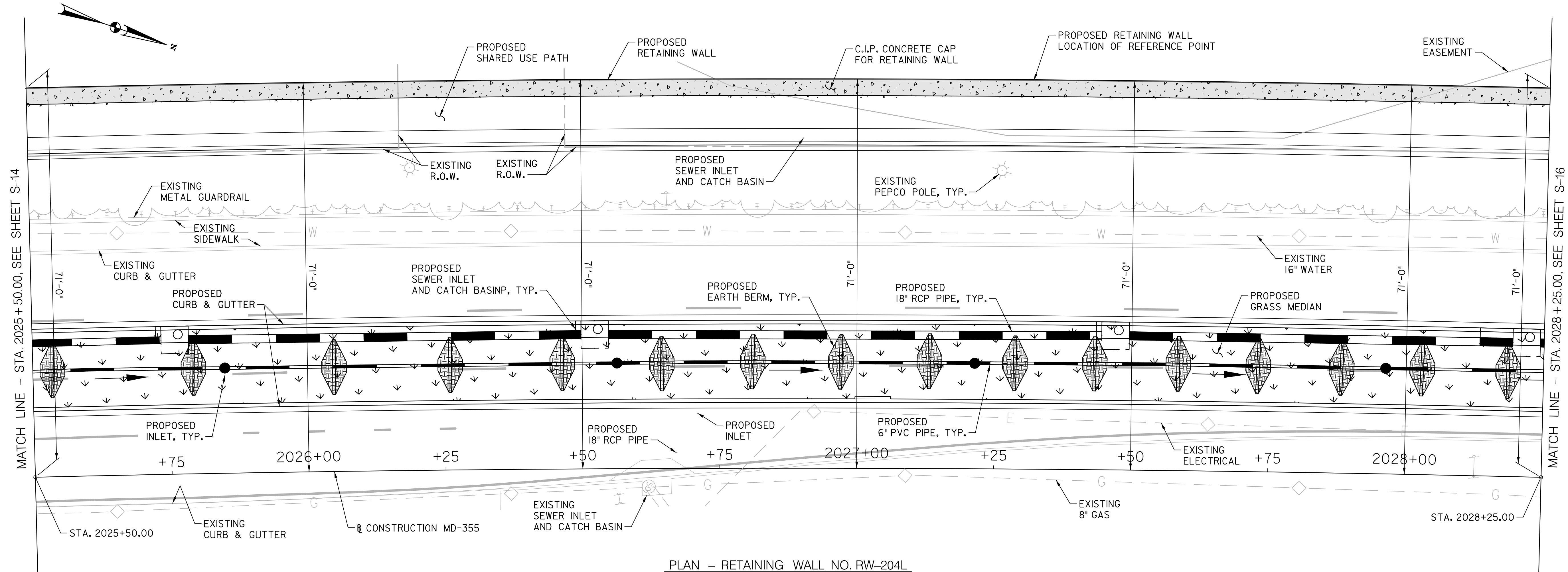
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-204L
 PLAN (2 OF 5)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 754 of 887

10/30/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2026213106\700 CADD\706 Struct\RetWall_204L_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-204L
 STA. 2020+20.00 TO STA. 2032+90.00
 SCALE: 1" = 10'-0"

S-15



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

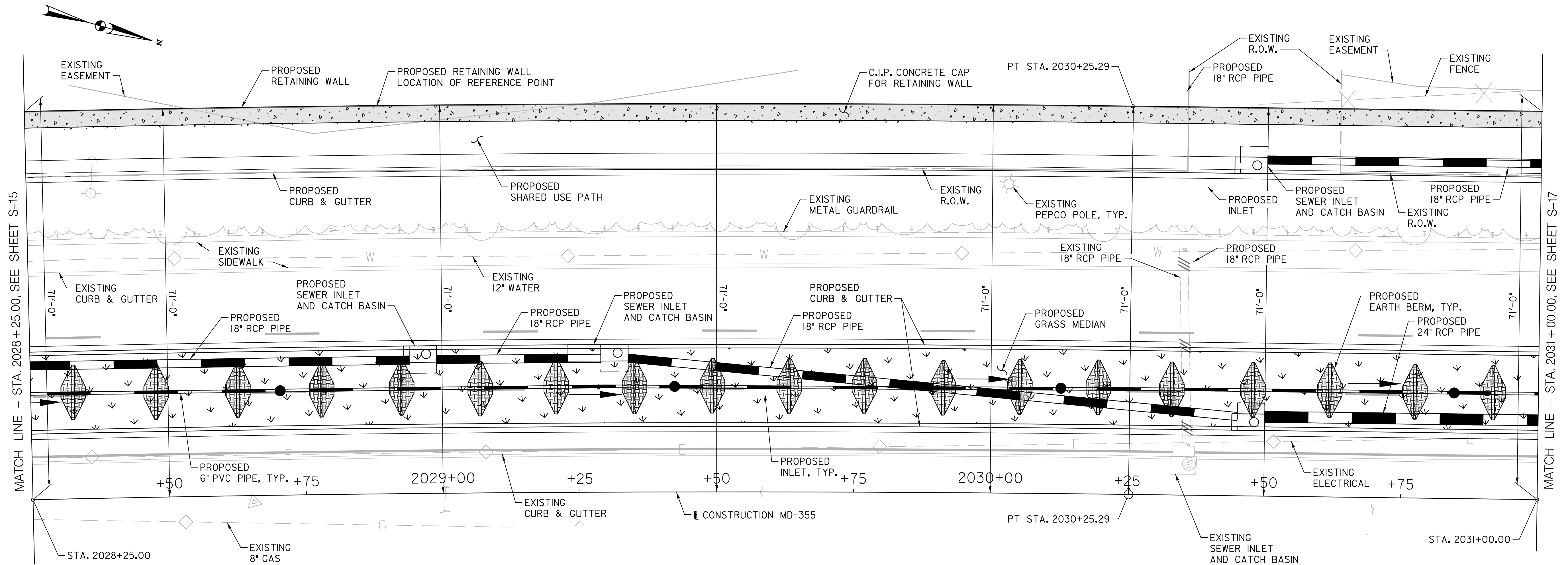
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-204L
 PLAN (3 OF 5)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 755 of 887

10/30/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_204L_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-204L
 STA. 2020+20.00 TO STA. 2032+90.00
 SCALE: 1" = 10'-0"

S-16



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

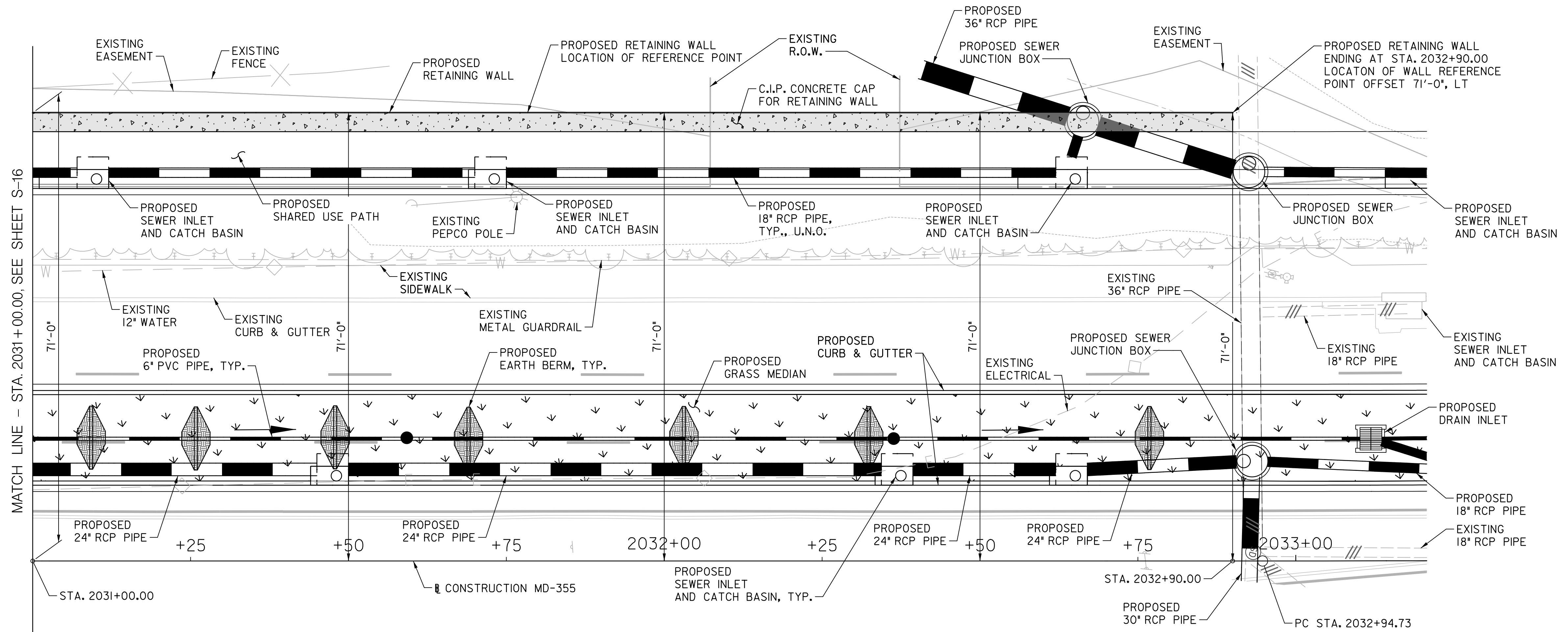
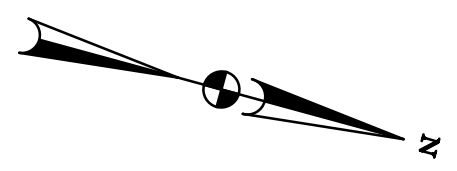
Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-204L
 PLAN (4 OF 5)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 756 of 887



PLAN - RETAINING WALL NO. RW-204L
 STA. 2020+20.00 TO STA. 2032+90.00
 SCALE: 1" = 10'-0"

10/30/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\306\700 CADD\706 Struct\RetWall_204L_Plan-Elev_MD355BRT.dgn

S-17



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

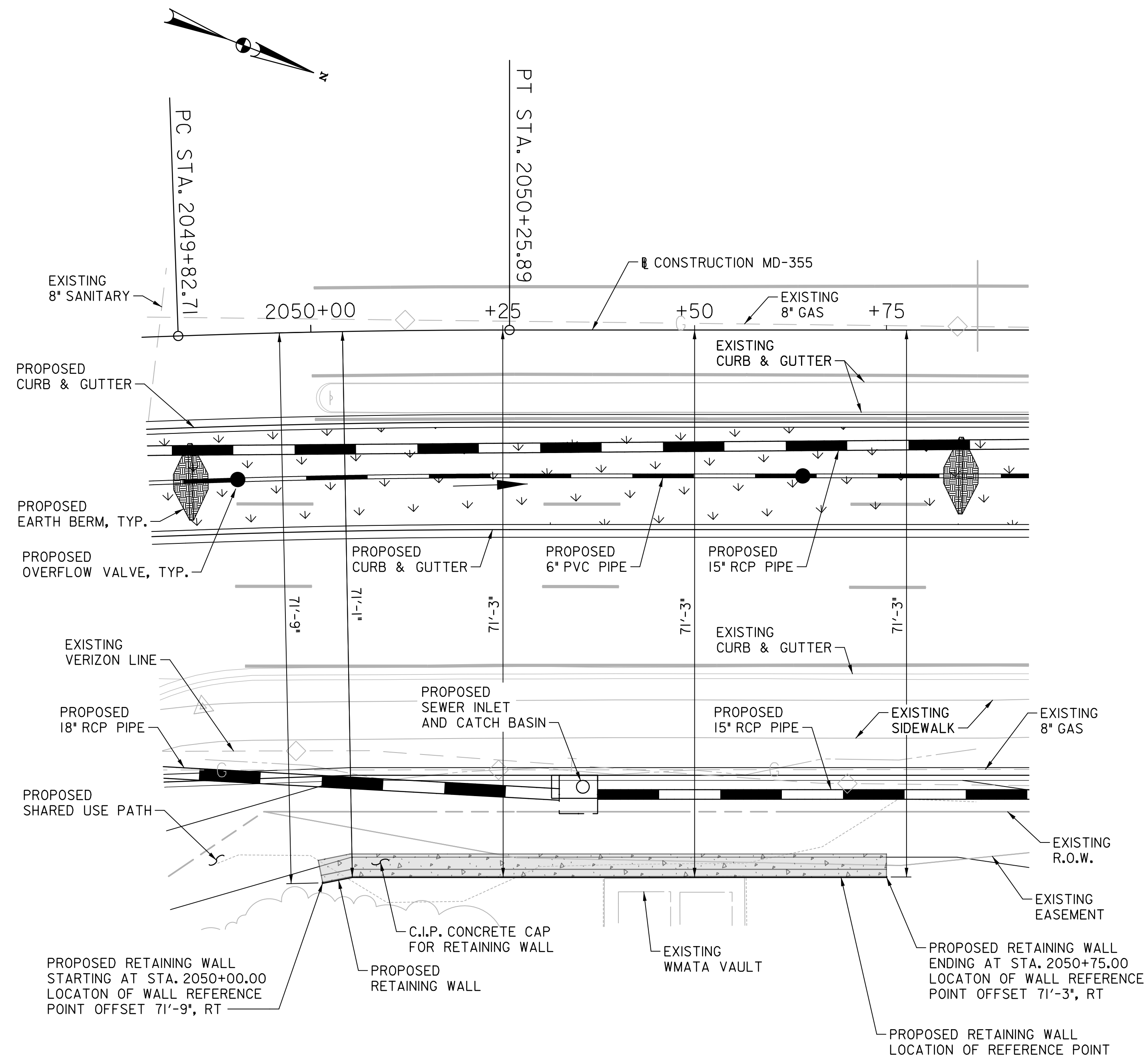
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-204L
 PLAN (5 OF 5)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 757 of 887

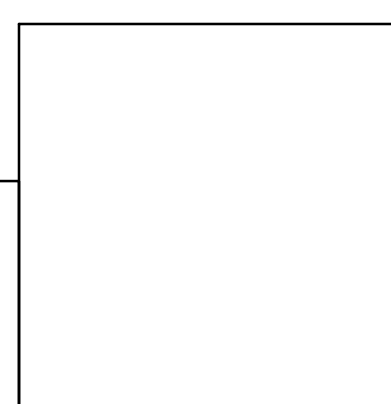
10/30/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\3106\700 CADD\706 Struct\RetWall_205R_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-205R
 STA. 2050+00.00 TO STA. 2050+75.00
 SCALE: 1" = 10'-0"



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

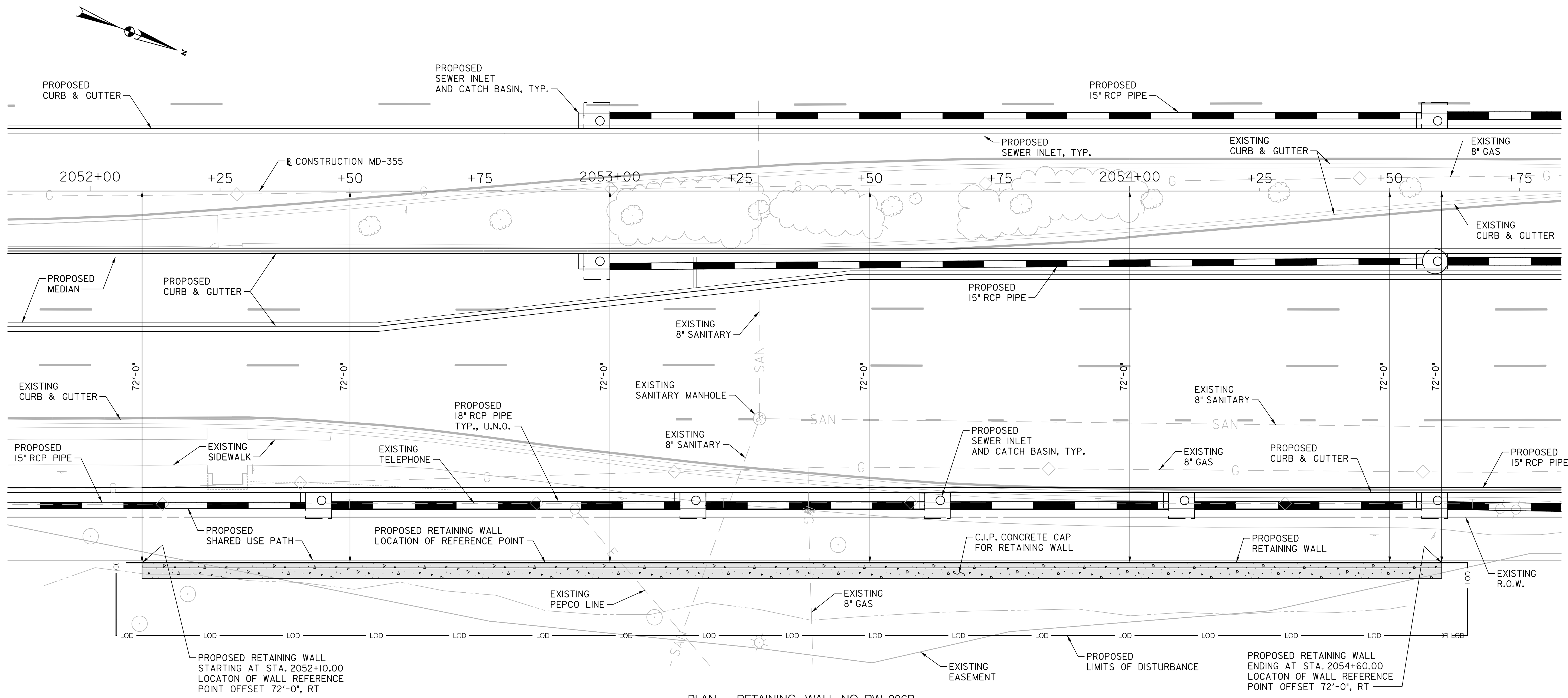
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by : _____	Drawn by : _____
Checked by : _____	

MD 355 BUS RAPID TRANSIT (BRT)
RETAINING WALL NO. RW-205R
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 758 of 887

10/30/2022 P:\stntec-sc-pw-bentley.com\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_206R_Plan-Elev_MD355BRT.dgn



PROPOSED RETAINING WALL
STARTING AT STA. 2052+10.00
LOCATION OF WALL REFERENCE
POINT OFFSET 72'-0", RT

PROPOSED RETAINING WALL
ENDING AT STA. 2054+60.00
LOCATION OF WALL REFERENCE
POINT OFFSET 72'-0", RT

PLAN - RETAINING WALL NO. RW-206R
STA. 2052+10.00 TO STA. 2054+60.00
SCALE: 1" = 10'-0"



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

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

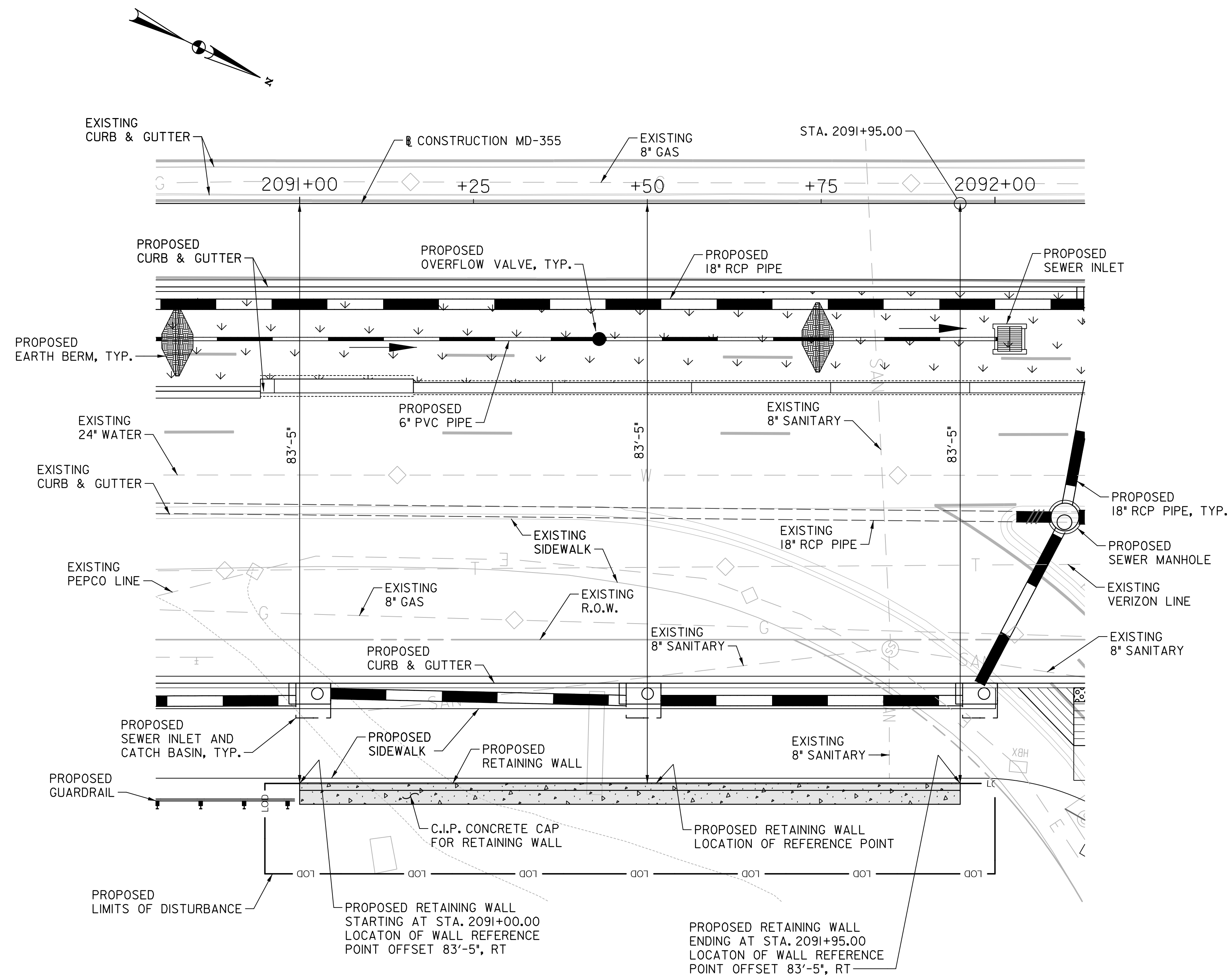
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-206R
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 759 of 887

10/30/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_207R_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-207R

STA. 2091+00.00 TO STA. 2091+95.00
SCALE: 1" = 10'-0"

S-20



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

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

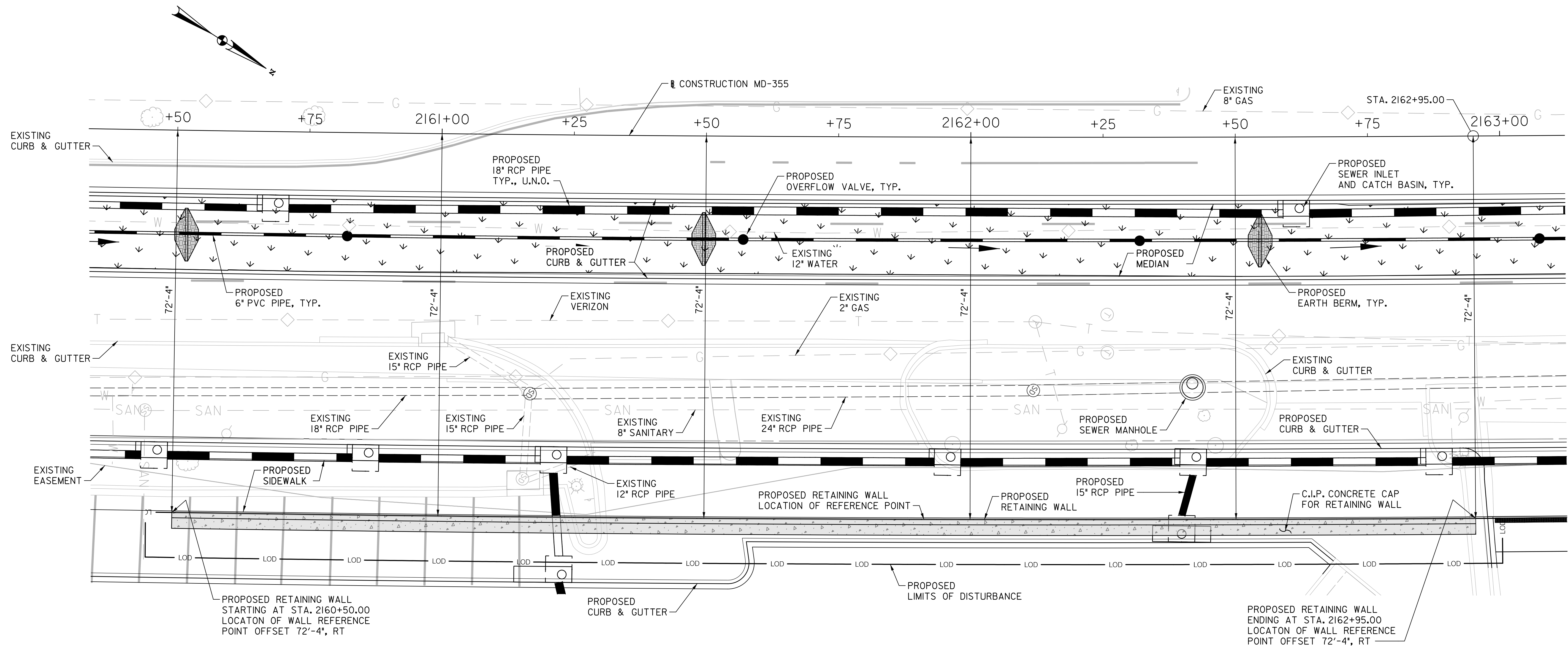
Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
RETAINING WALL NO. RW-207R
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 760 of 887

10/30/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_208R_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-208R
 STA. 2160+50.00 TO STA. 2162+95.00
 SCALE: 1" = 10'-0"

S-21



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

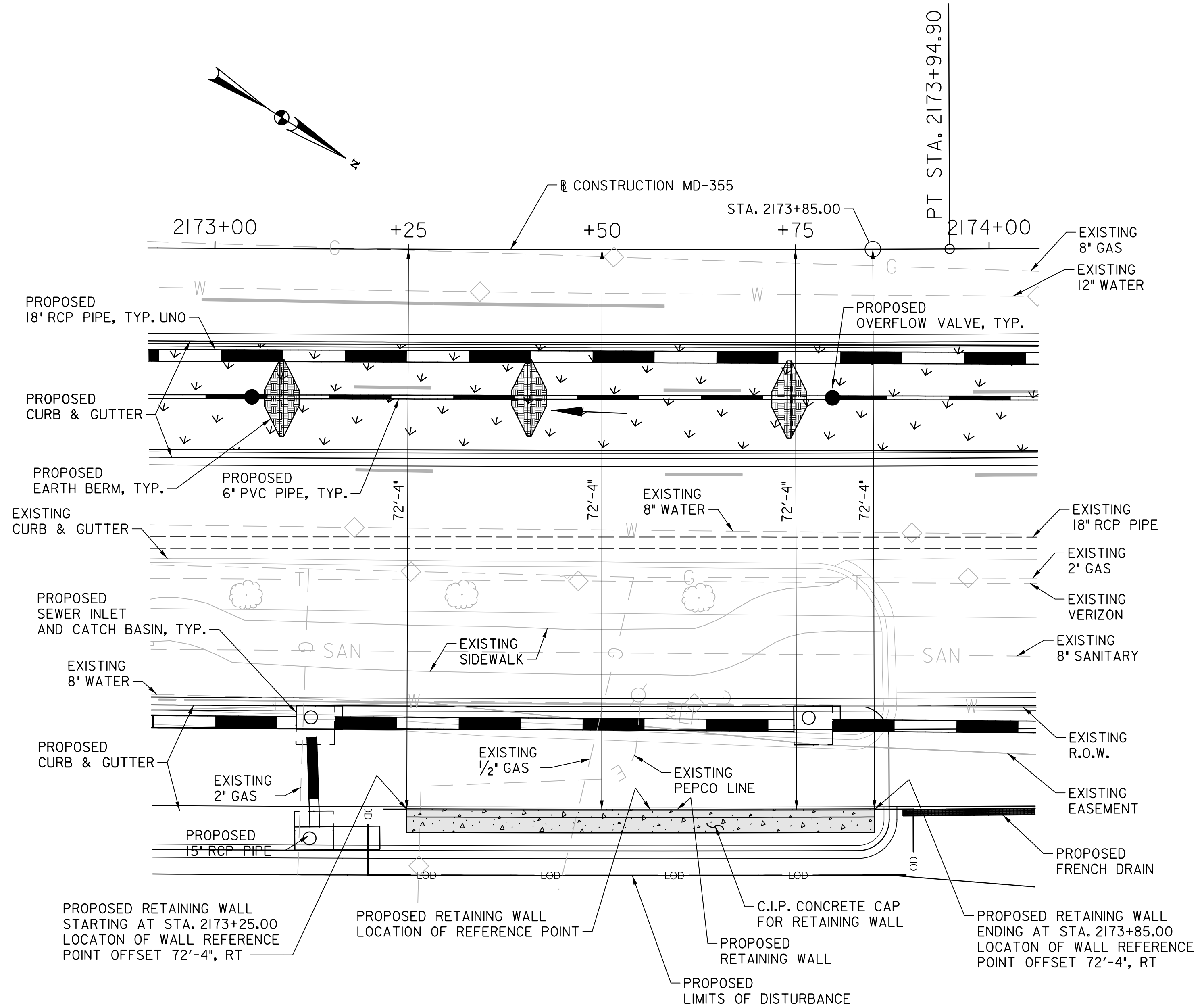
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-208R
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 761 of 887

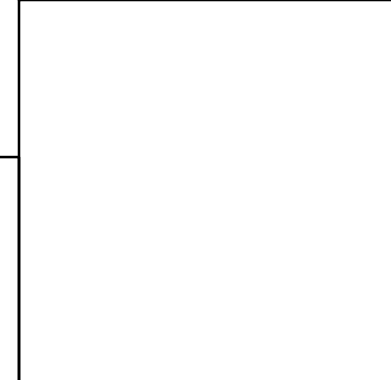
10/30/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_209R_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-209R
 STA. 2173+25.00 TO STA. 2173+85.00
 SCALE: 1" = 10'-0"



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

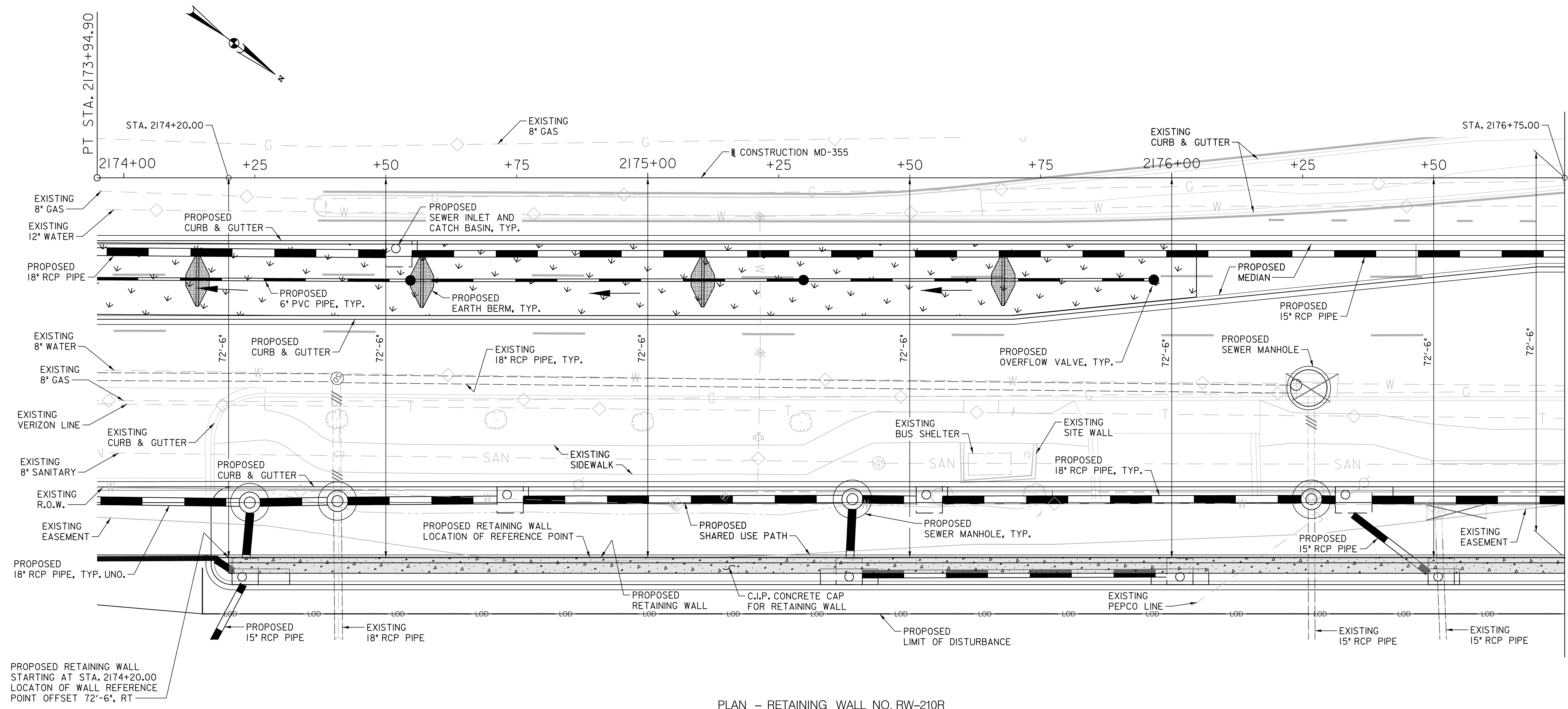
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by: _____	Drawn by: _____
Checked by: _____	

MD 355 BUS RAPID TRANSIT (BRT)
RETAINING WALL NO. RW-209R
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 762 of 887

10/31/2022 P:\stntec-sc-pw-bentley.com\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_210R_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-210R
 STA. 2174+20.00 TO STA. 2179+15.00
 SCALE: 1" = 10'-0"

MATCH LINE - STA. 2176 + 75.00, SEE SHEET S-24



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

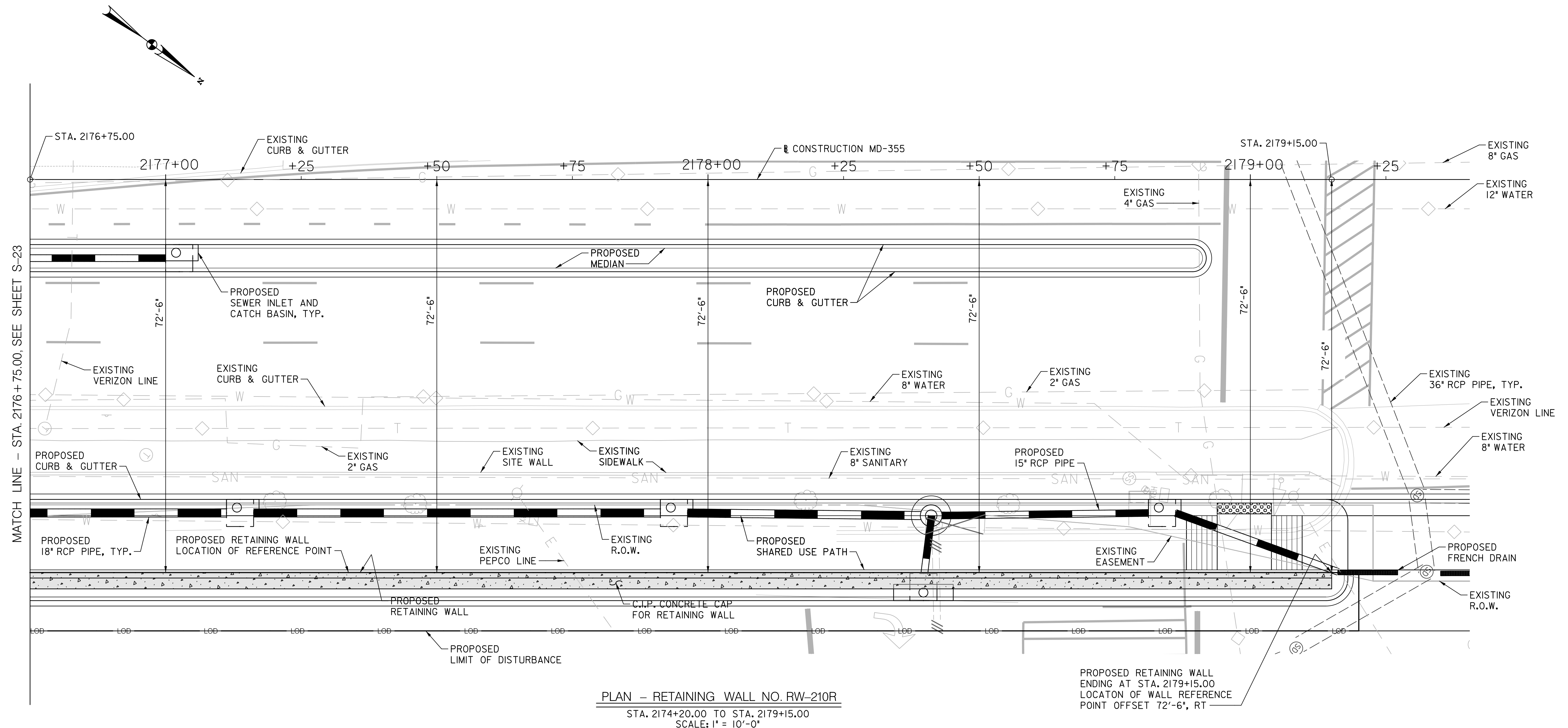
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-210R
 PLAN (1 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 763 of 887

10/31/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\2106\700 CADD\706 Struct\RetWall_210R_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-210R
 STA. 2174+20.00 TO STA. 2179+15.00
 SCALE: 1" = 10'-0"

S-24



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

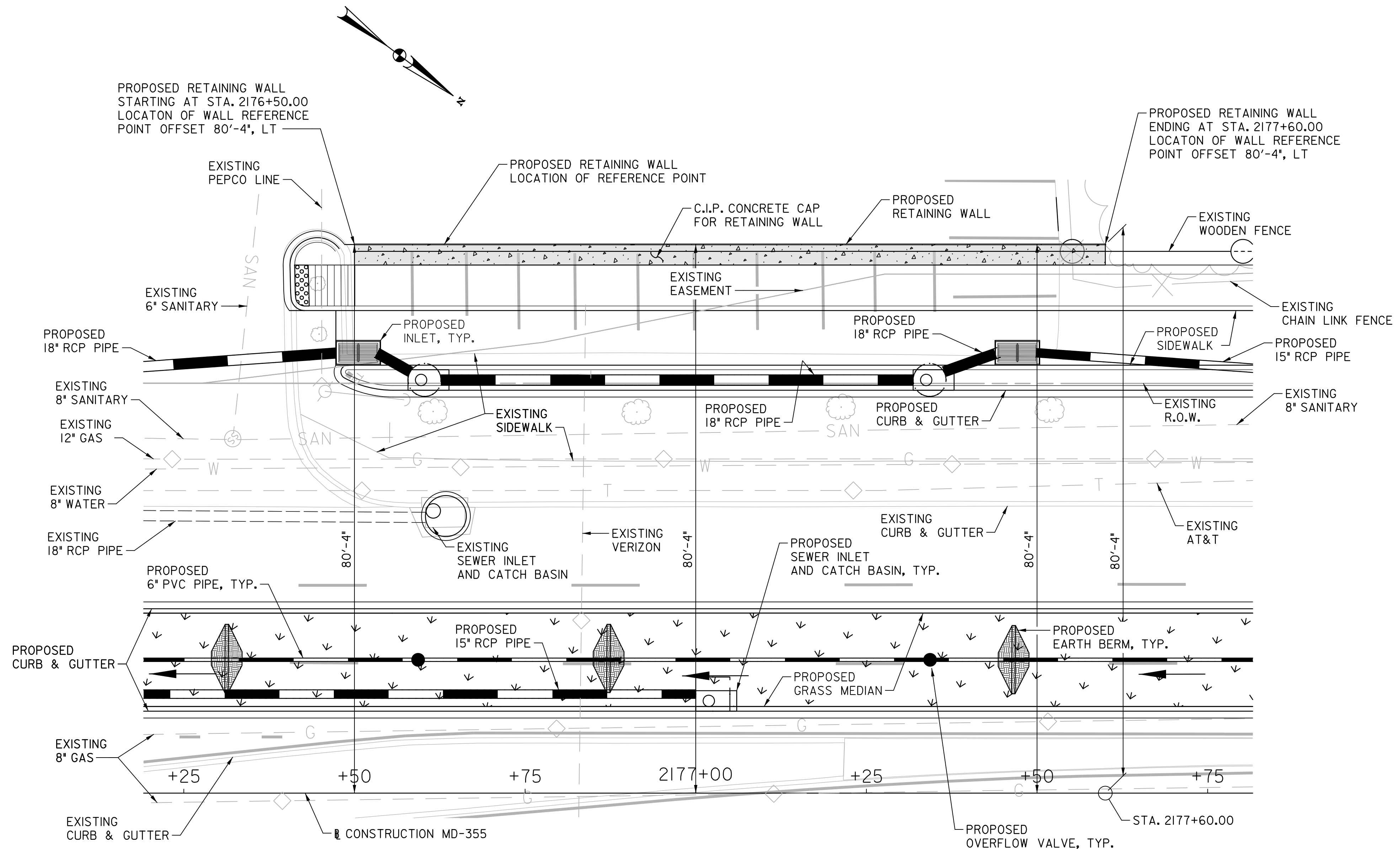
Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-210R
 PLAN (2 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 764 of 887



PLAN - RETAINING WALL NO. RW-211L
 STA. 2176+50.00 TO STA. 2177+60.00
 SCALE: 1" = 10'-0"

10/31/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\306\700 CADD\706 Struct\RetWall_211L_Plan-Elev_M0355BRT.dgn

S-25



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

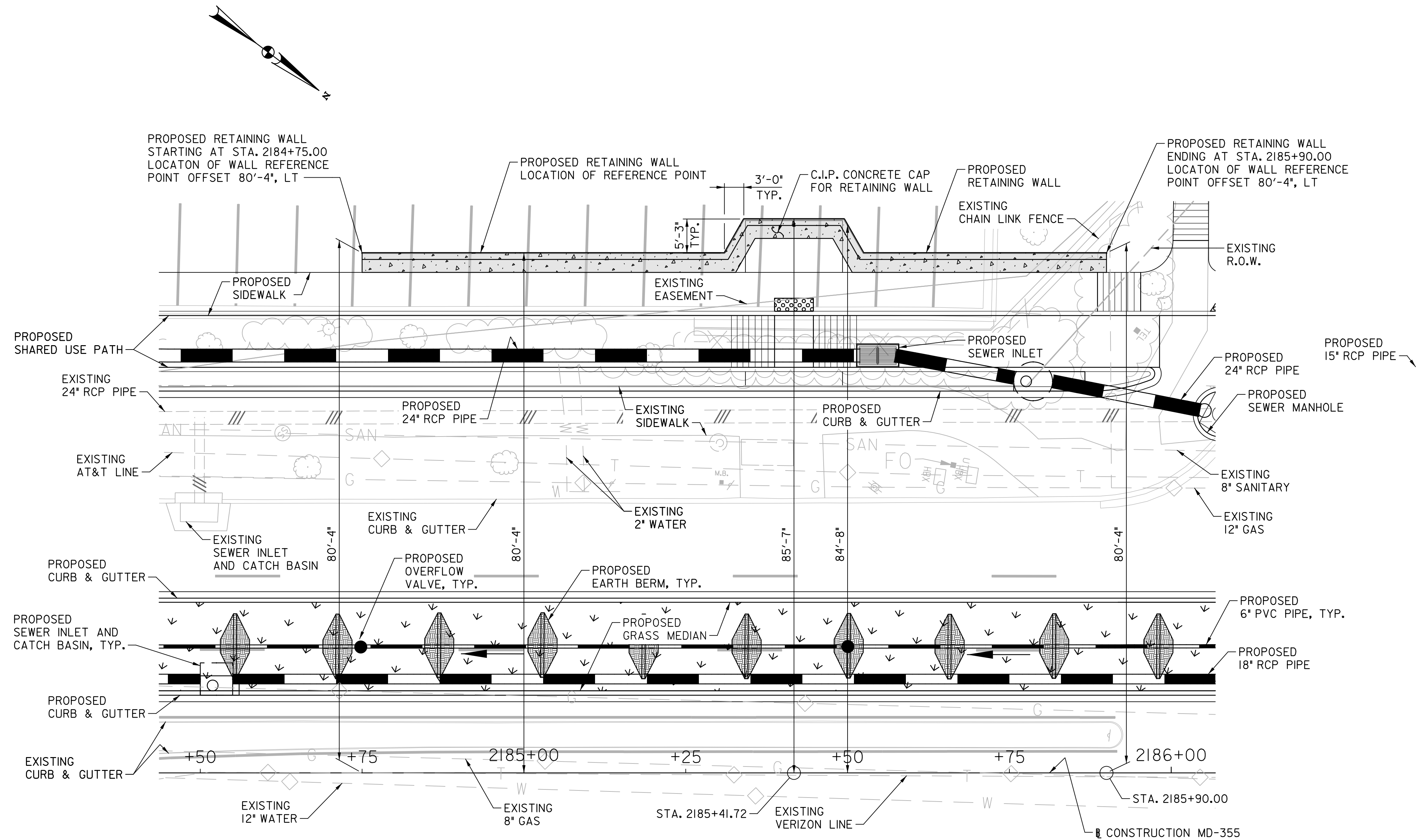
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by: _____	Drawn by: _____
Checked by: _____	

MD 355 BUS RAPID TRANSIT (BRT)
 RETAINING WALL NO. RW-211L
 PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 765 of 887

10/31/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_212L_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-212L
 STA. 2184+75.00 TO STA. 2185+90.00
 SCALE: 1" = 10'-0"



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

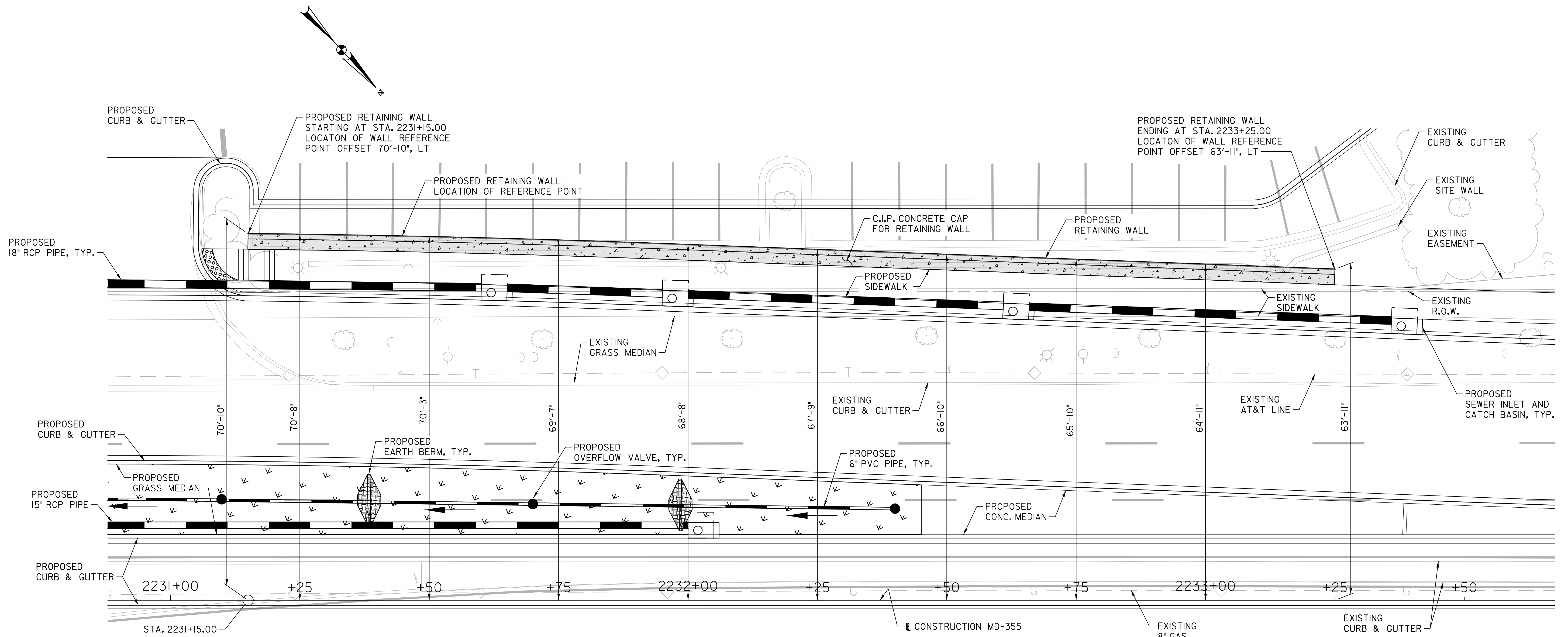
Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
RETAINING WALL NO. RW-212L
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 766 of 887

10/31/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2026213106\700 CADD\706 Struct\RetWall_213L_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-213L
 STA. 2231+15.00 TO STA. 2233+25.00
 SCALE: 1" = 10'-0"

S-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: _____

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

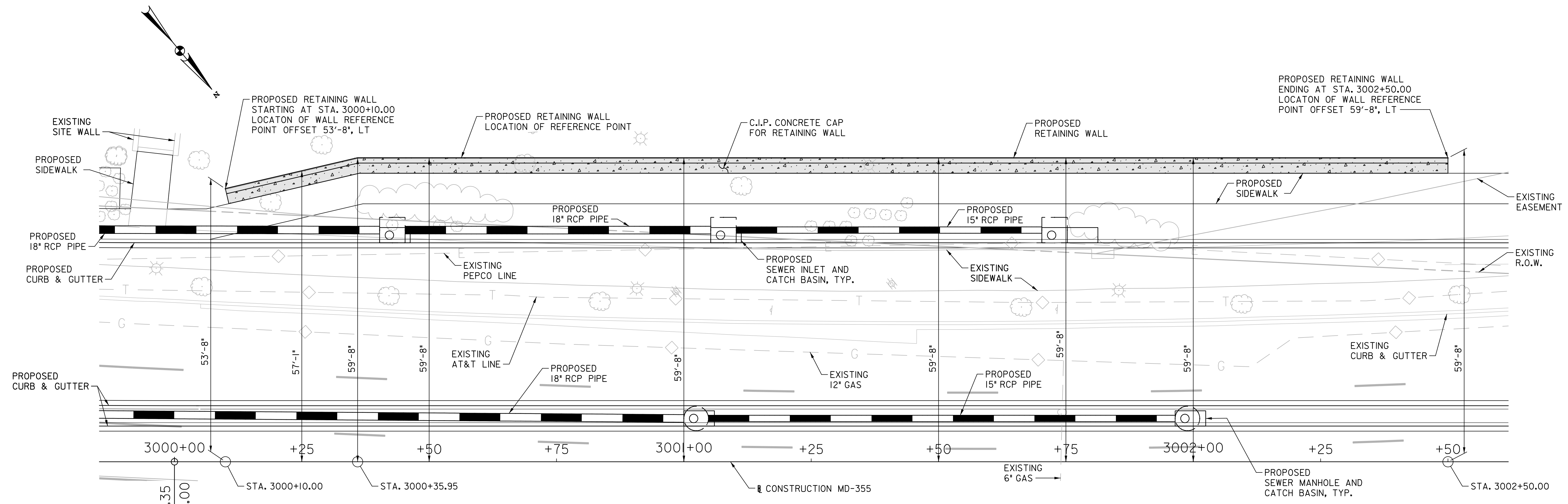
Chief, Division of Transportation Engineering _____ Date _____

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

MD 355 BUS RAPID TRANSIT (BRT)
RETAINING WALL NO. RW-213L
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022
 Project No. : 502005 SHEET 767 of 887

10/31/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_301L_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-301L
 STA. 3000+10.00 TO STA. 3002+50.00
 SCALE: 1" = 10'-0"

S-28



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

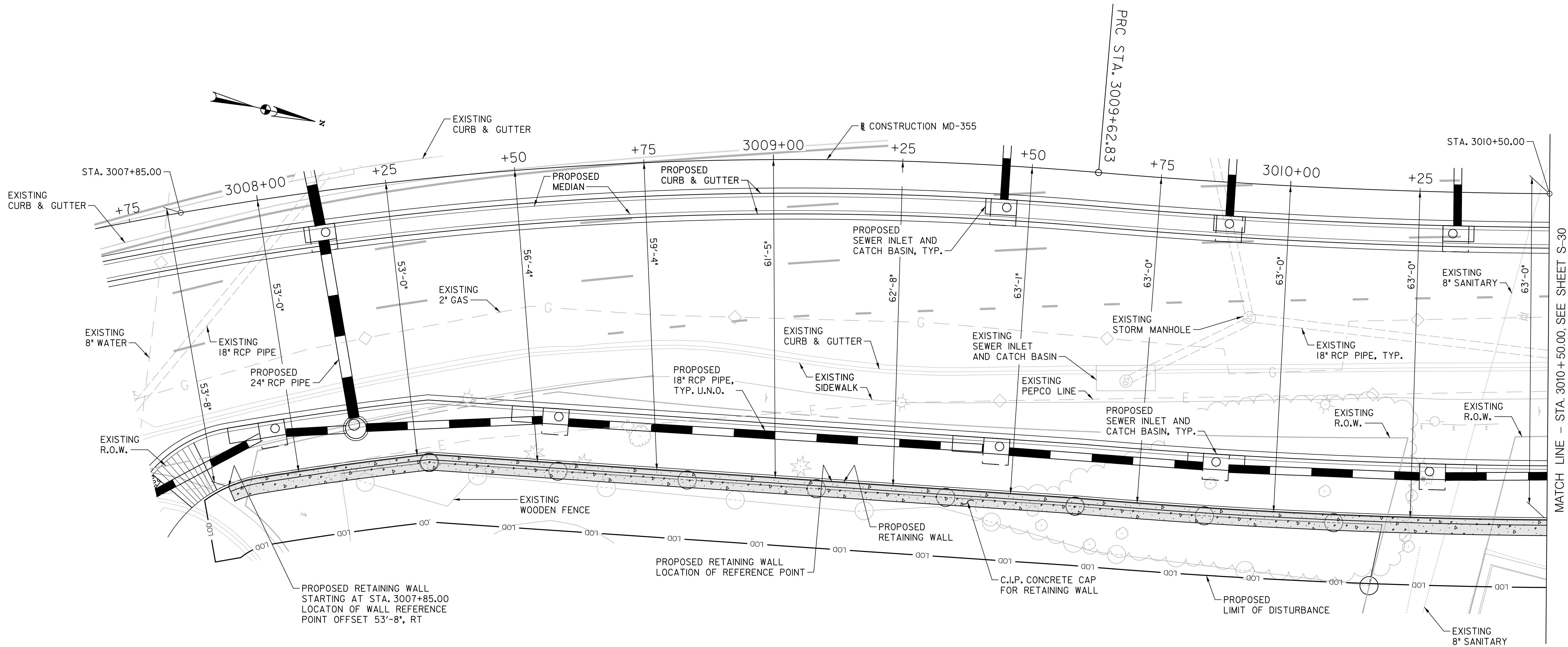
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-301L
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 768 of 887

10/31/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\306\700 CADD\706 Struct\RetWall_302R_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-302R
 STA. 3007+85.00 TO STA. 3011+75.00
 SCALE: 1" = 10'-0"

MATCH LINE - STA. 3010+50.00, SEE SHEET S-30

S-29



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

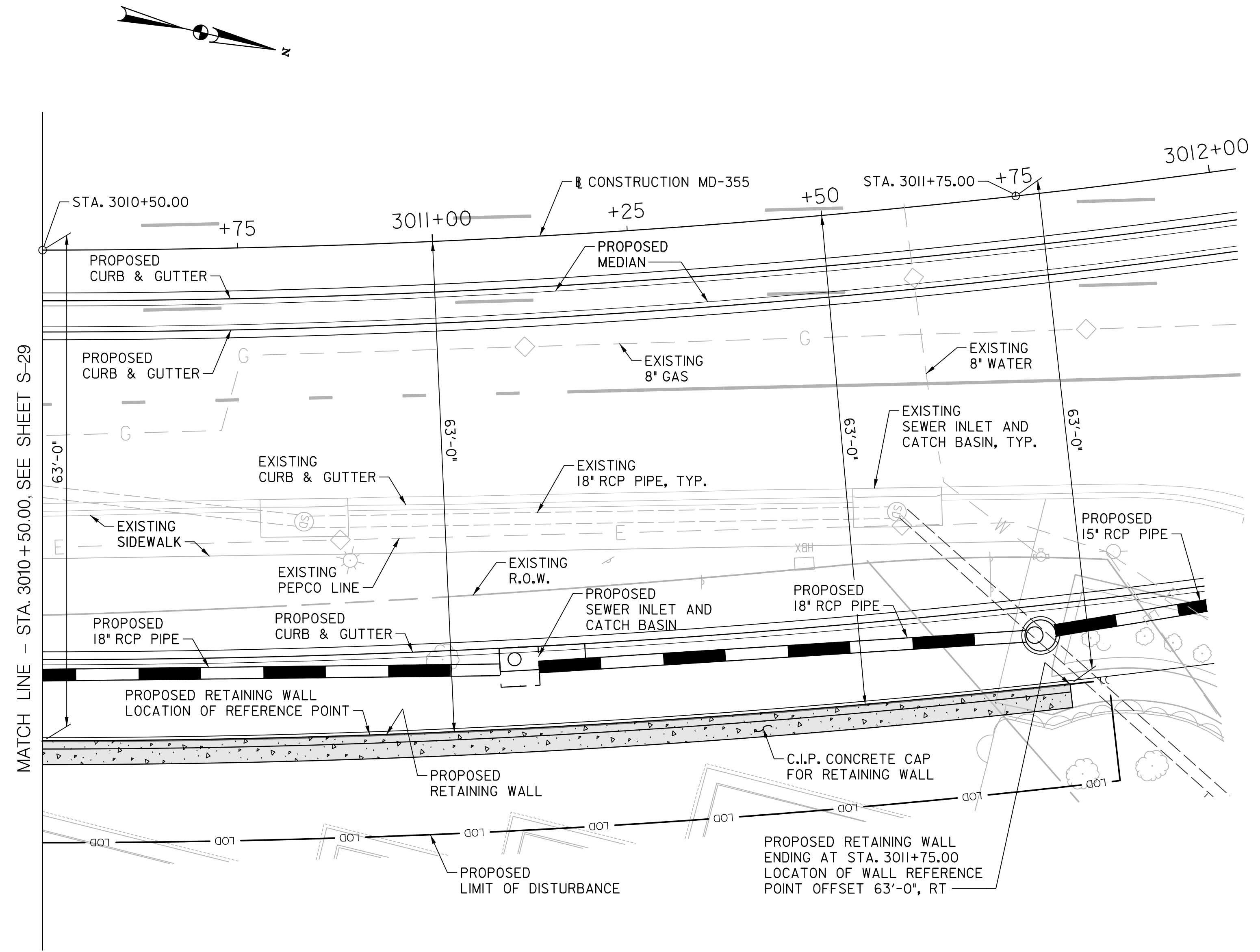
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-302R
 PLAN (1 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 769 of 887

10/31/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_302R_Plan-Elev_MD355BRT.dgn

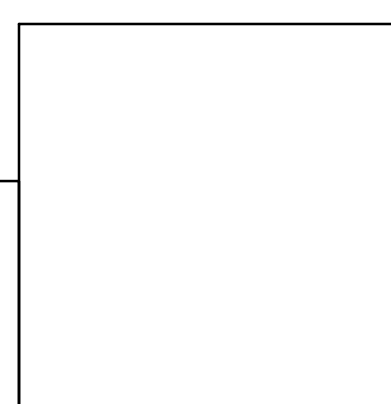


PLAN - RETAINING WALL NO. RW-302R
 STA. 3007+85.00 TO STA. 3011+75.00
 SCALE: 1" = 10'-0"

S-30



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: _____

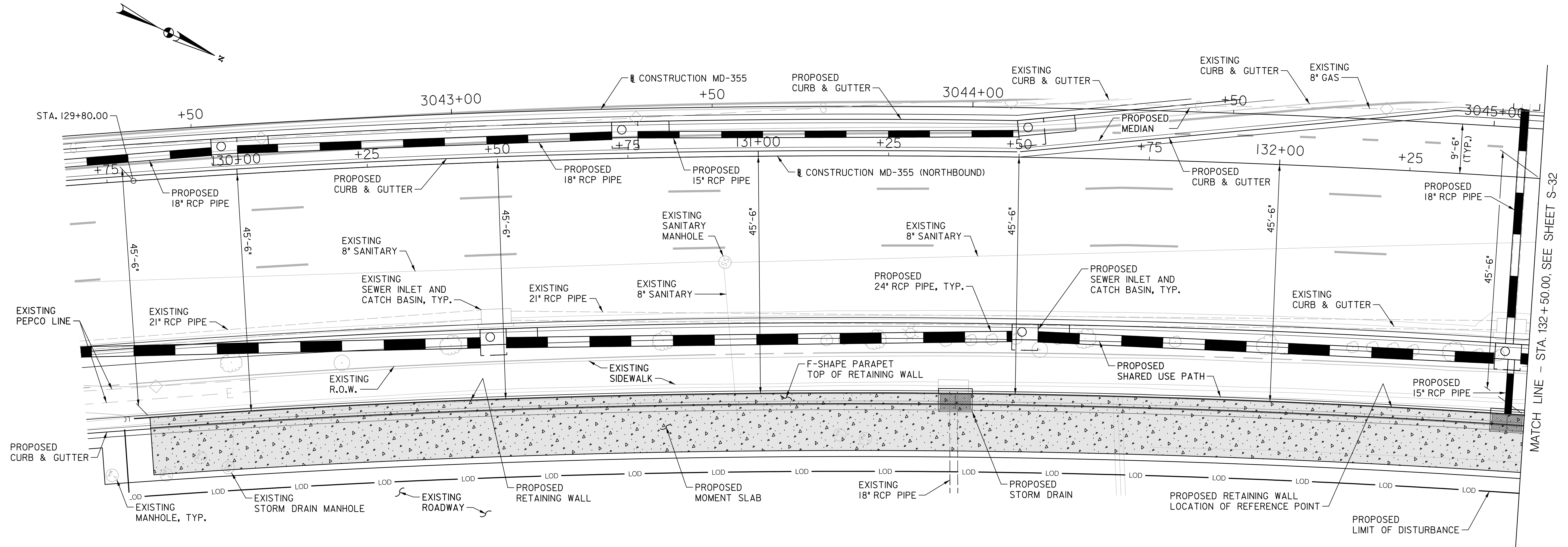


NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by: _____	Drawn by: _____
Checked by: _____	

MD 355 BUS RAPID TRANSIT (BRT)
 RETAINING WALL NO. RW-302R
 PLAN (2 OF 2)
 SCALE : AS SHOWN DATE : DECEMBER 2022
 Project No. : 502005 SHEET 770 of 887

11/1/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_303R_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-303R
 STA. 129+80.00 TO STA. 135+50.00
 SCALE: 1" = 10'-0"

S-31



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

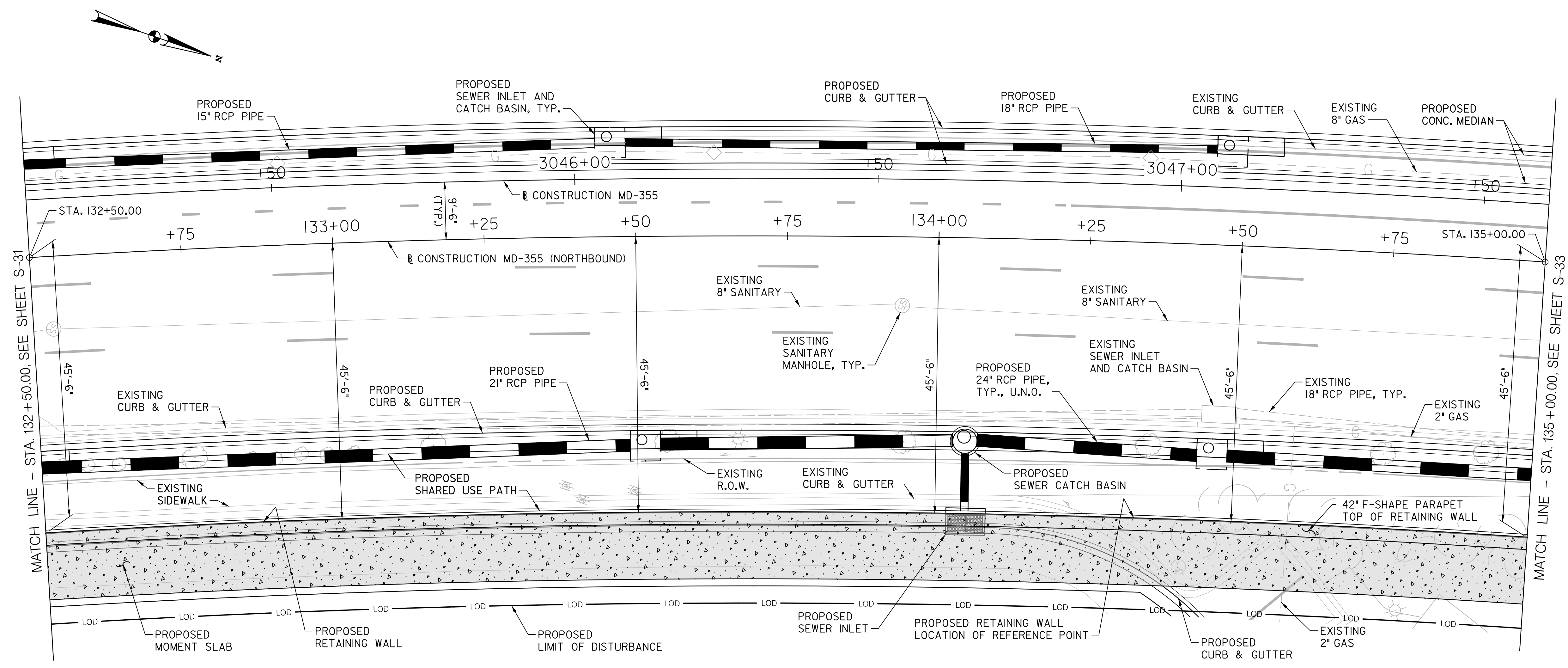
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-303R
 PLAN (1 OF 3)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 771 of 887

11/1/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_303R_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-303R
 STA. 129+80.00 TO STA. 135+50.00
 SCALE: 1" = 10'-0"

S-32



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

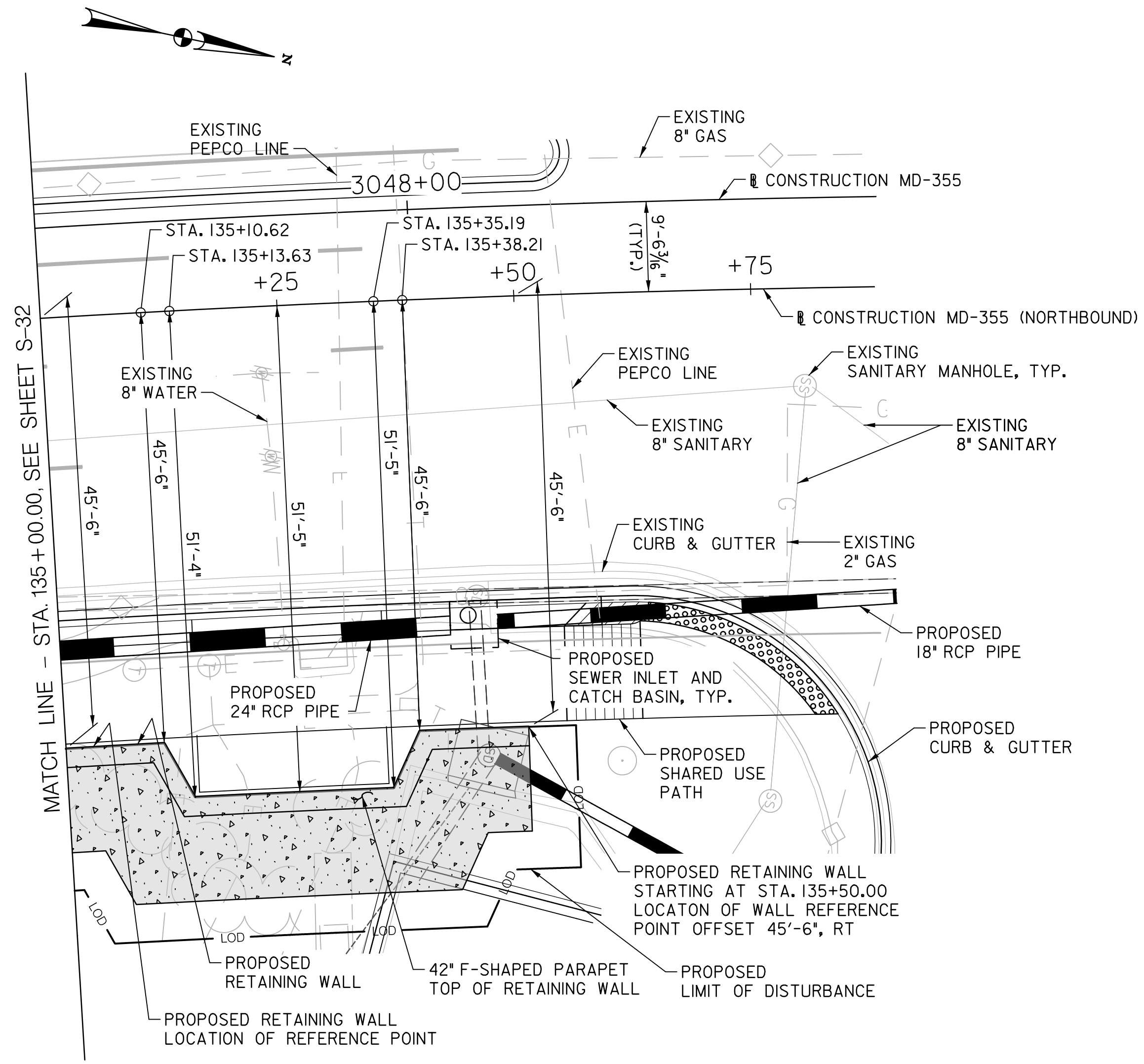
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by : _____	Drawn by : _____
Checked by : _____	

MD 355 BUS RAPID TRANSIT (BRT)
 RETAINING WALL NO. RW-303R
 PLAN (2 OF 3)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 772 of 887

11/1/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_303R_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-303R
 +STA. 129+80.00 TO STA. 135+50.00
 SCALE: 1" = 10'-0"

S-33



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

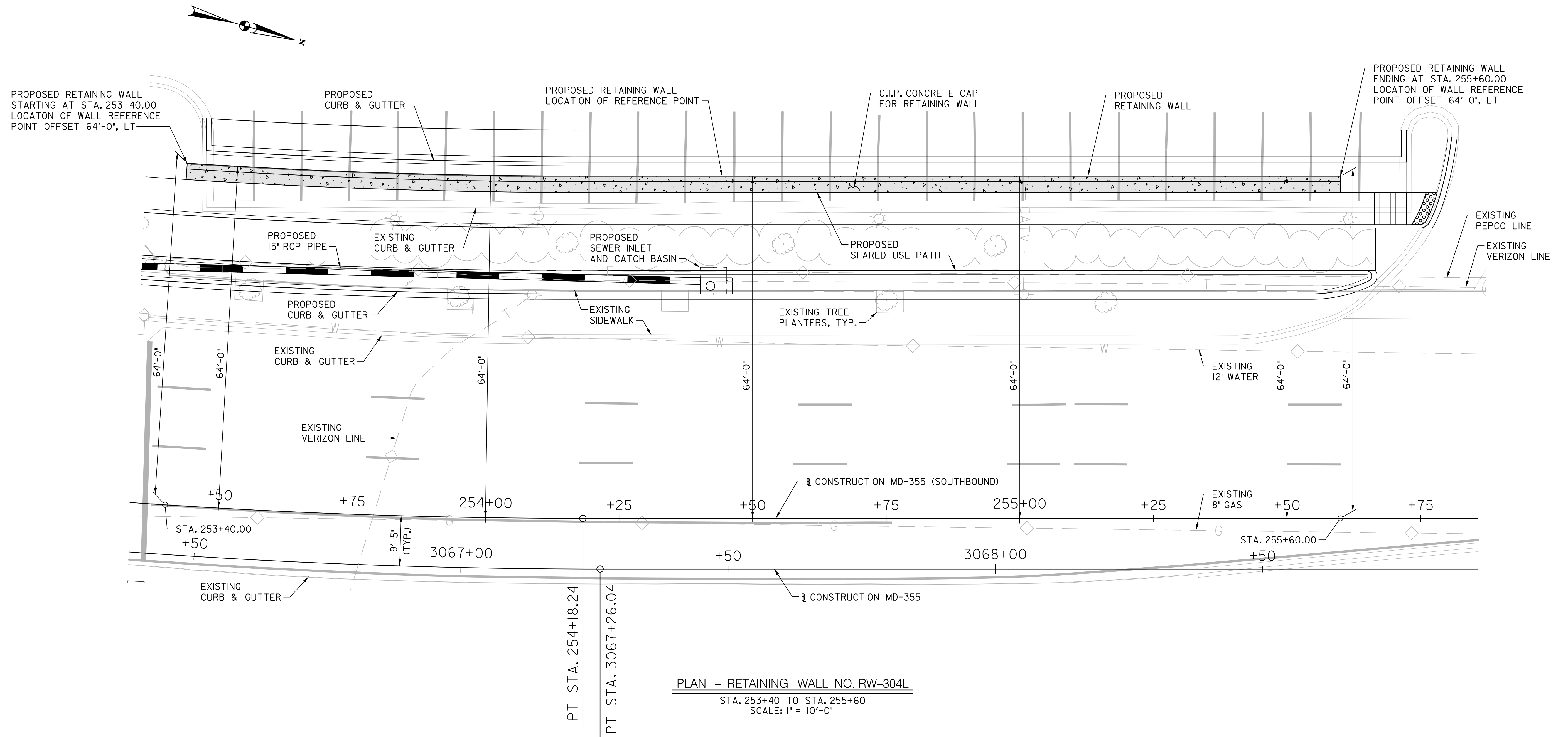
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section APPROVED	_____ Date
Chief, Division of Transportation Engineering	_____ Date
Designed by : _____	Drawn by : _____ Checked by : _____

MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-303R
PLAN (3 OF 3)

SCALE : AS SHOWN DATE : DECEMBER 2022
 Project No. : 502005 SHEET 773 of 887

10/31/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\106\700 CADD\706 Struct\RetWall_304L_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-304L
 STA. 253+40 TO STA. 255+60
 SCALE: 1" = 10'-0"

S-34



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

Chief, Design Section _____ Date _____
 APPROVED

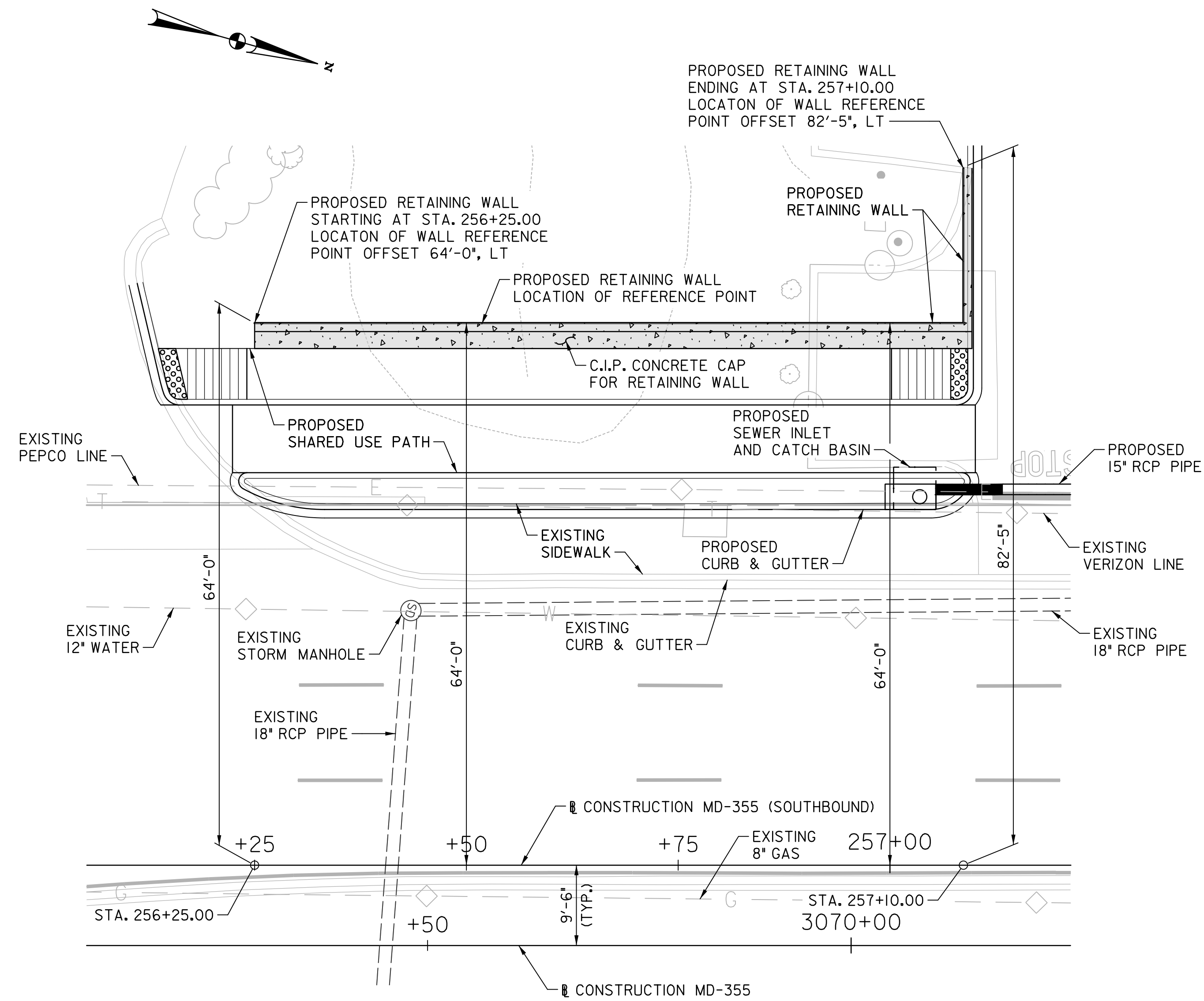
Chief, Division of Transportation Engineering _____ Date _____

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

MD 355 BUS RAPID TRANSIT (BRT)
 RETAINING WALL NO. RW-304L
 PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022
 Project No. : 502005 SHEET 774 of 887

10/31/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\2106\700 CADD\706 Struct\RetWall_305L_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-305L
 STA. 256+25.00 TO STA. 257+10.00
 SCALE: 1" = 10'-0"

S-35



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

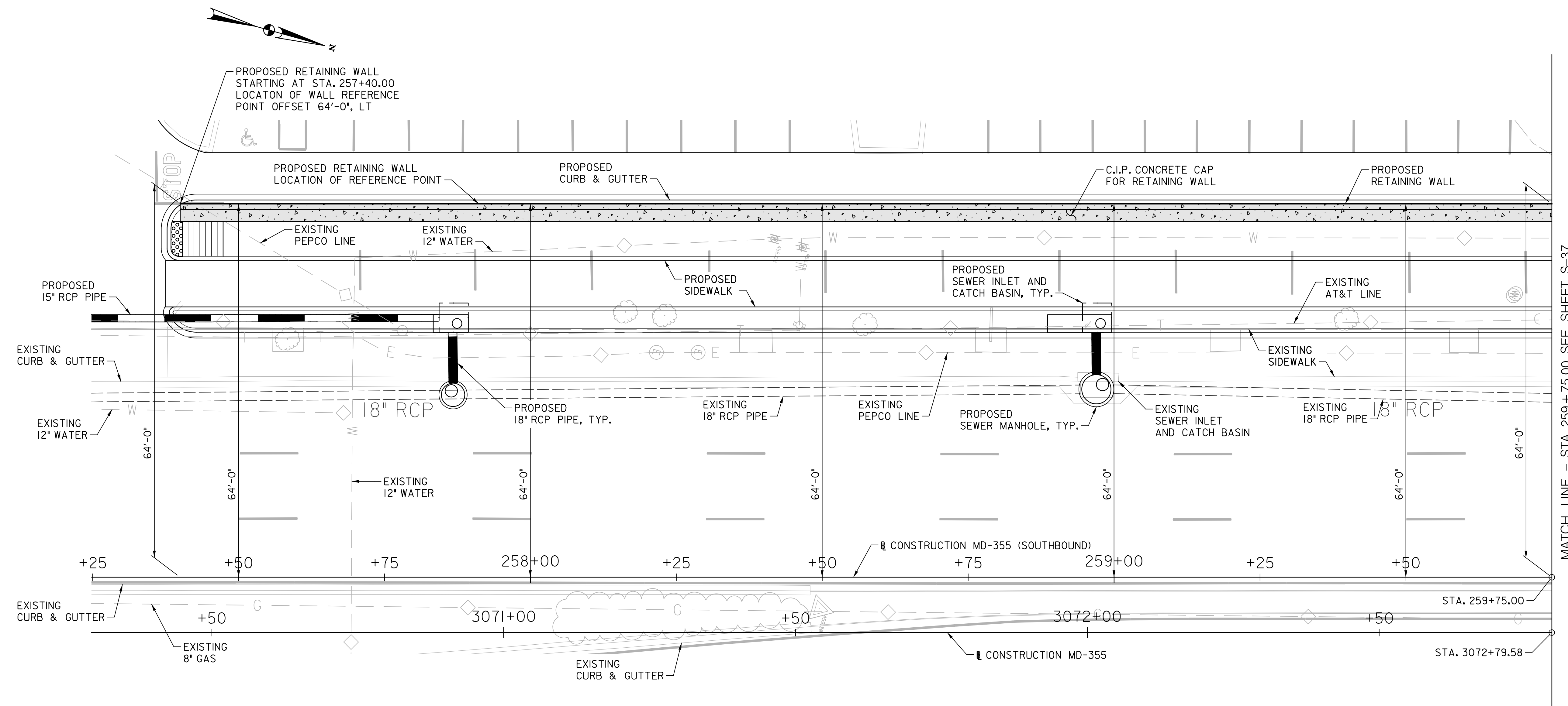
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-305L
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 775 of 887

10/31/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\306\700 CADD\706 Struct\RetWall_306L_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-306L
 STA. 257+40.00 TO STA. 261+00.00
 SCALE: 1" = 10'-0"

MATCH LINE - STA. 259+75.00. SEE SHEET S-37

S-36



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

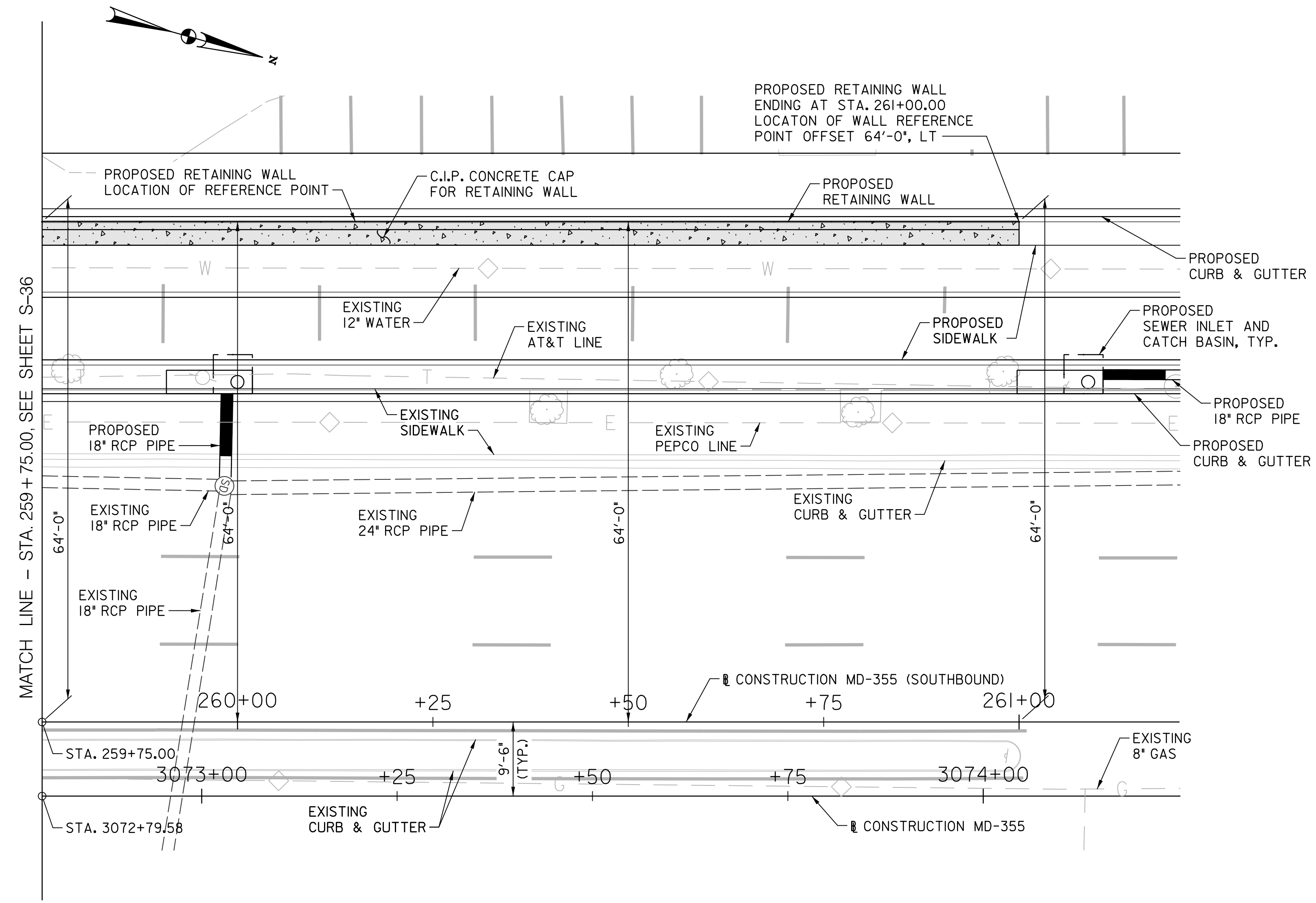
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by: _____	Drawn by: _____
Checked by: _____	

MD 355 BUS RAPID TRANSIT (BRT)
 RETAINING WALL NO. RW-306L
 PLAN (1 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 776 of 887

10/31/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\2106\700 CADD\706 Struct\RetWall_306L_Plan-Elev_MD355BRT.dgn

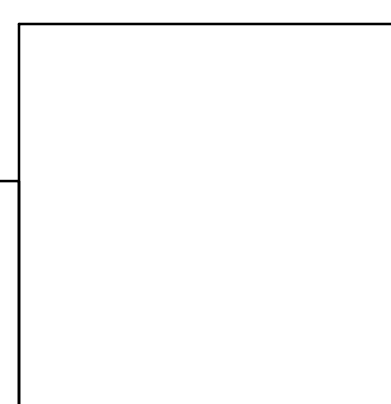


PLAN - RETAINING WALL NO. RW-306L
 STA. 257+40.00 TO STA. 261+00.00
 SCALE: 1" = 10'-0"

S-37



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

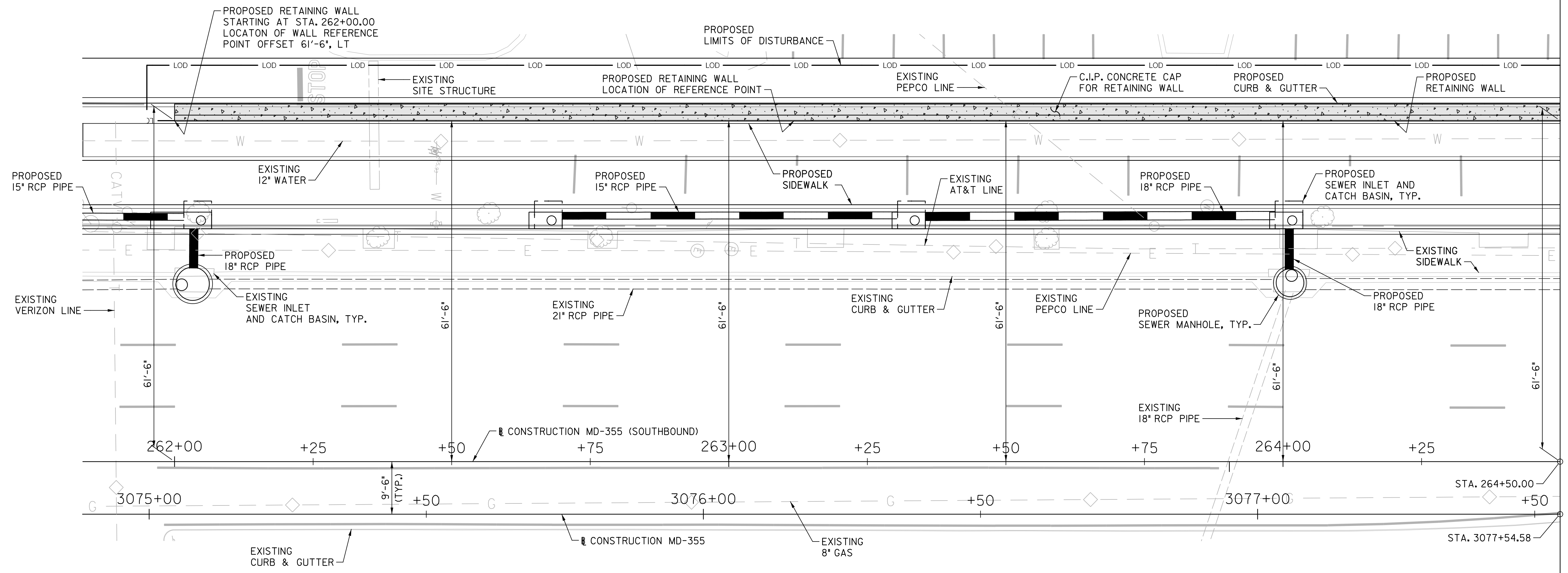
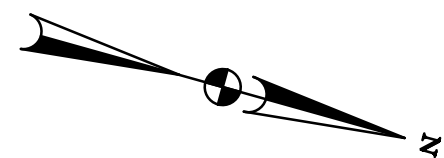
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by : _____	Drawn by : _____
Checked by : _____	

MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-306L
PLAN (2 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 777 of 887



MATCH LINE - STA. 264 + 50.00, SEE SHEET S-39

10/31/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\306\700 CADD\706 Struct\RetWall_307L_Plan-Elev_MD355BRT.dgn



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

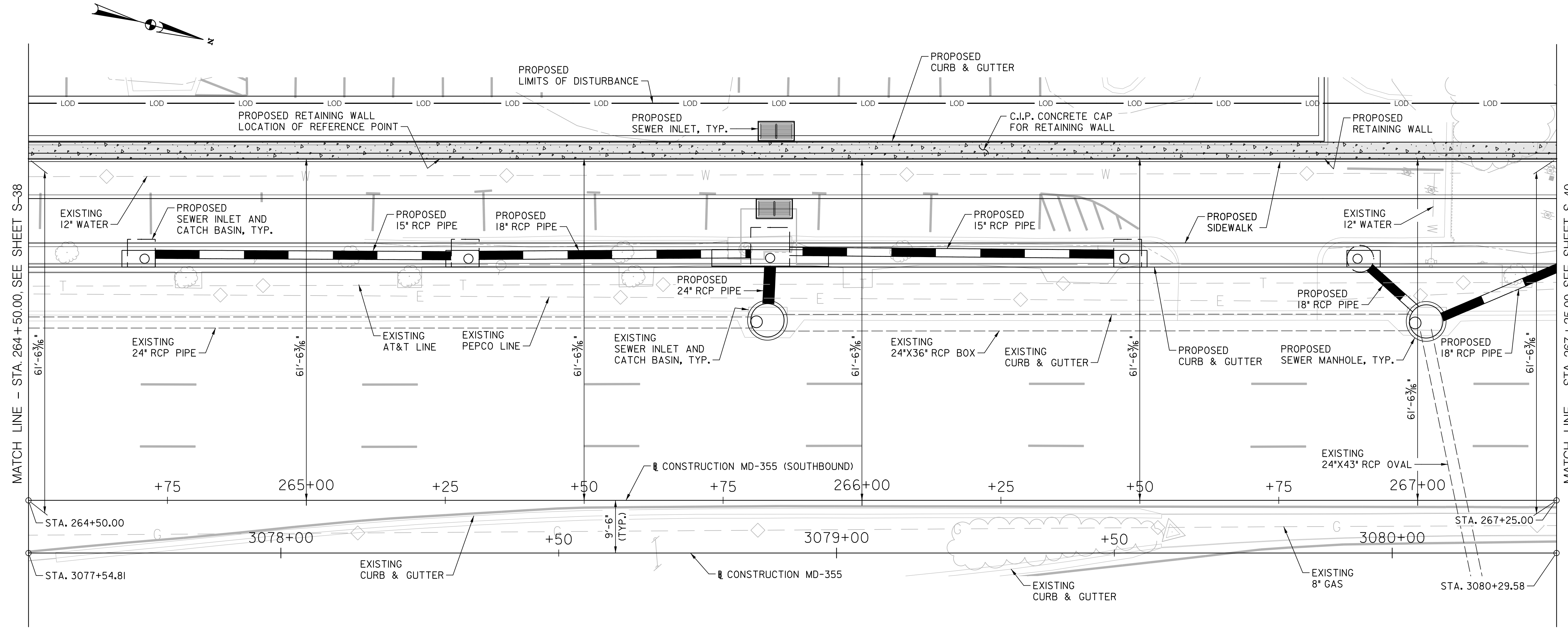
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-307L
 PLAN (1 OF 3)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 778 of 887

10/31/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_307L_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-307L
 STA. 262+00.00 TO STA. 269+25.00
 SCALE: 1" = 10'-0"

S-39



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

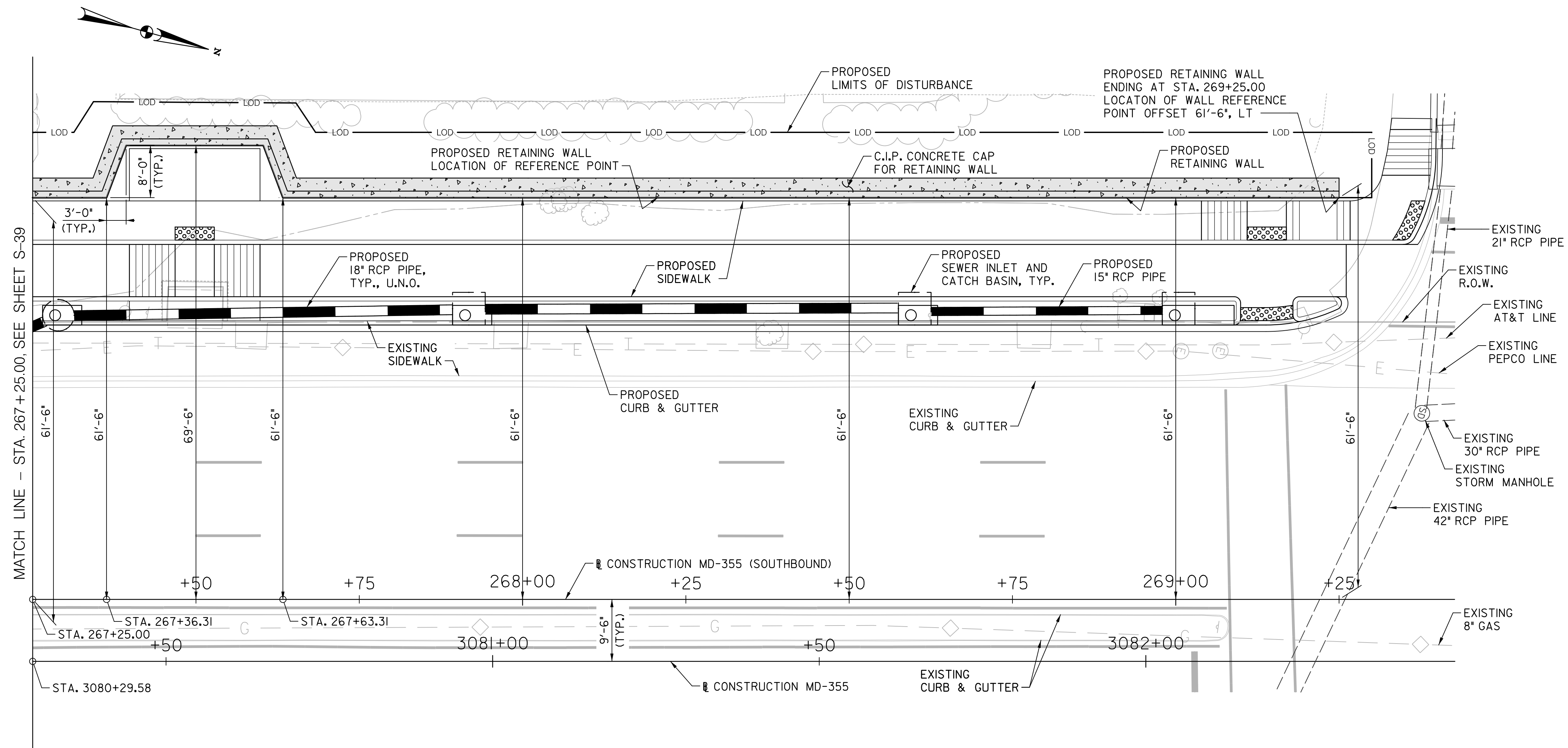
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-307L
 PLAN (2 OF 3)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 779 of 887

10/31/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\21306\700 CADD\706 Struct\RetWall_307L_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-307L
 STA. 262+00.00 TO STA. 269+25.00
 SCALE: 1" = 10'-0"

S-40



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

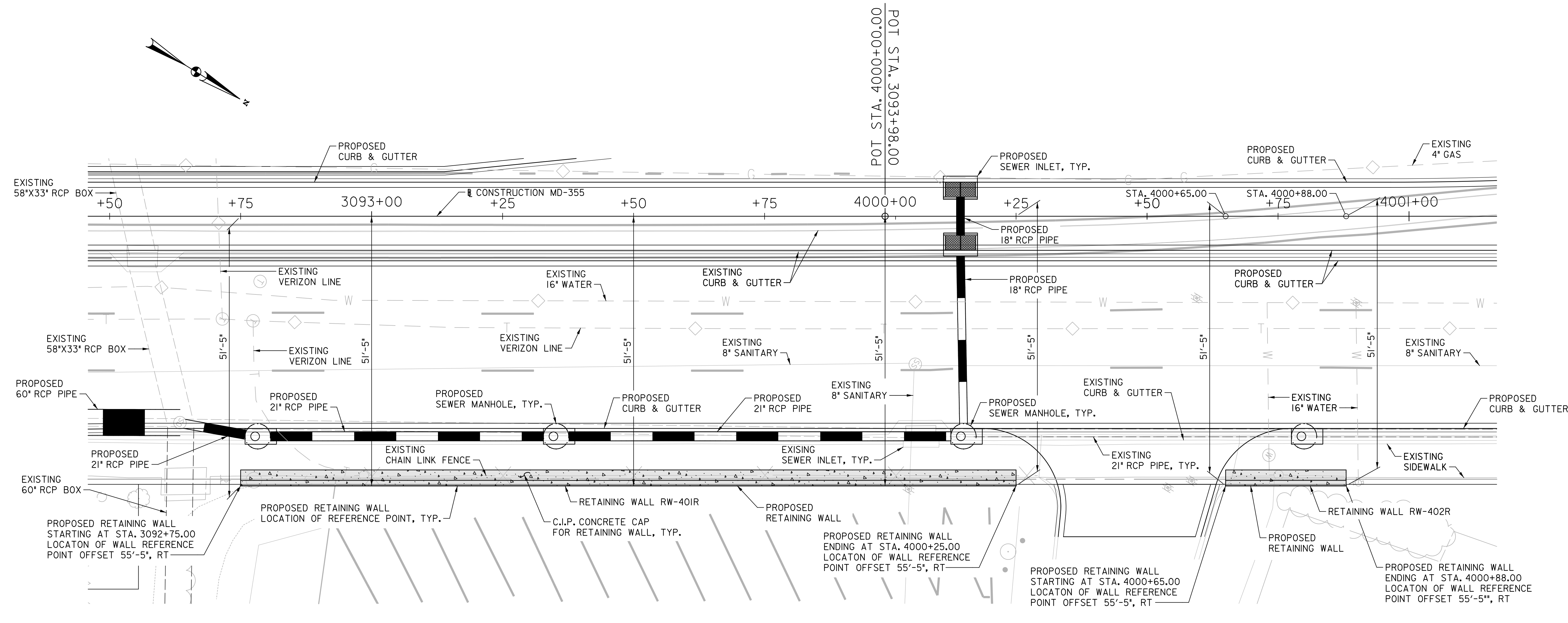
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-307L
PLAN (3 OF 3)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 780 of 887

10/31/2022 P:\stntec-sc-pw\stntec.com\stntec-sc-pw-02\Documents\2022\21306\700 CADD\706 Struct\RetWall_401R-402R_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NOS. RW-401R & RW-402R
 STA. 3092+75.00 TO STA. 4000+88.00
 SCALE: 1" = 10'-0"

S-41



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

MD 355 BUS RAPID TRANSIT (BRT)
RETAINING WALL NO. RW-401R
AND
RETAINING WALL NO. RW-402R
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 781 of 887

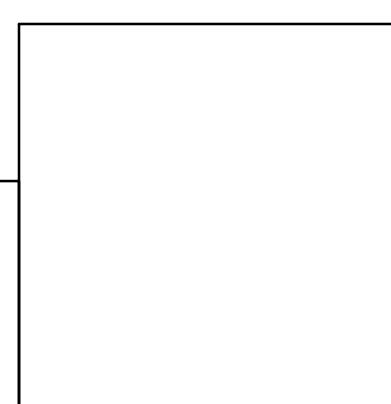
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S-42



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

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

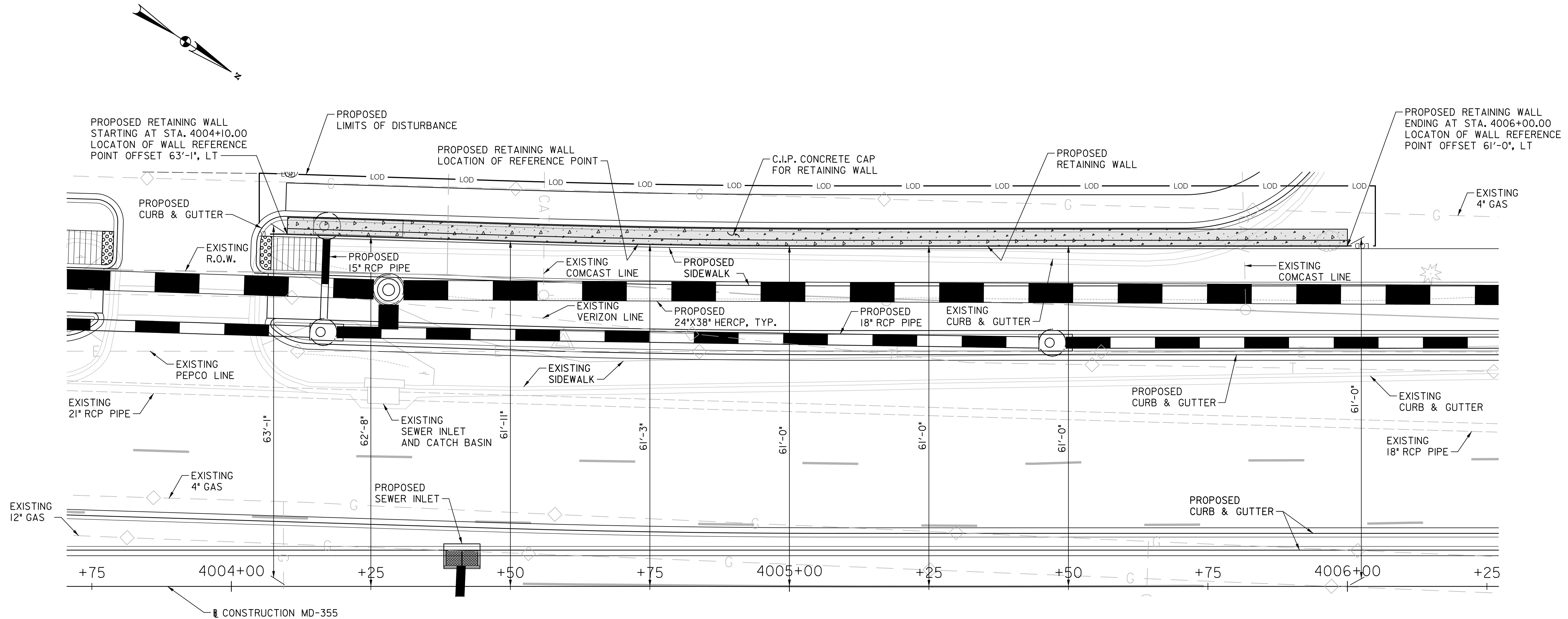
MD 355 BUS RAPID TRANSIT (BRT)

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SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 782 of 887

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PLAN - RETAINING WALL NO. RW-403L
 STA. 4004+10.00 TO STA. 4006+00.00
 SCALE: 1" = 10'-0"

S-43



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

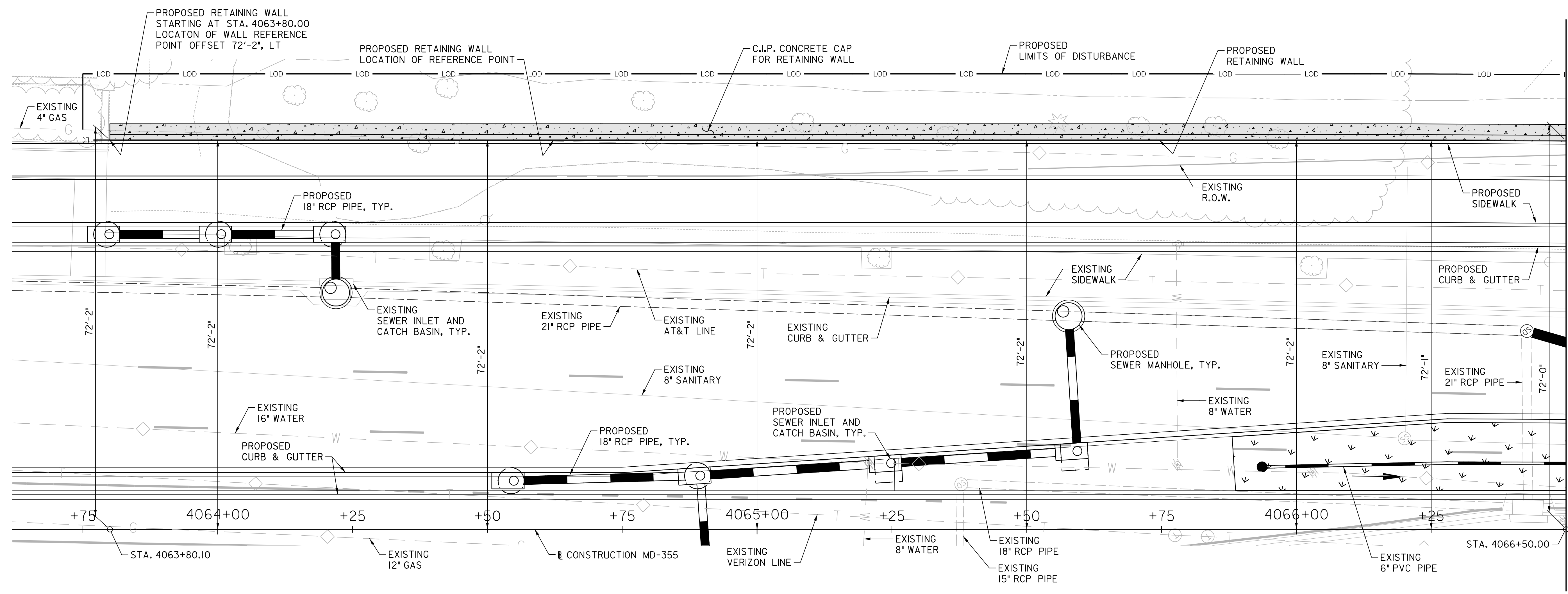
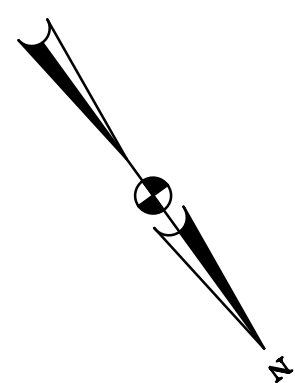
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

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

MD 355 BUS RAPID TRANSIT (BRT)
 RETAINING WALL NO. RW-403L
 PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022
 Project No. : 502005 SHEET 783 of 887

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PLAN - RETAINING WALL NO. RW-404L
 STA. 4063+80.10 TO STA. 4069+00.00
 SCALE: 1" = 10'-0"

MATCH LINE - STA. 4066+50.00, SEE SHEET S-45

S-44



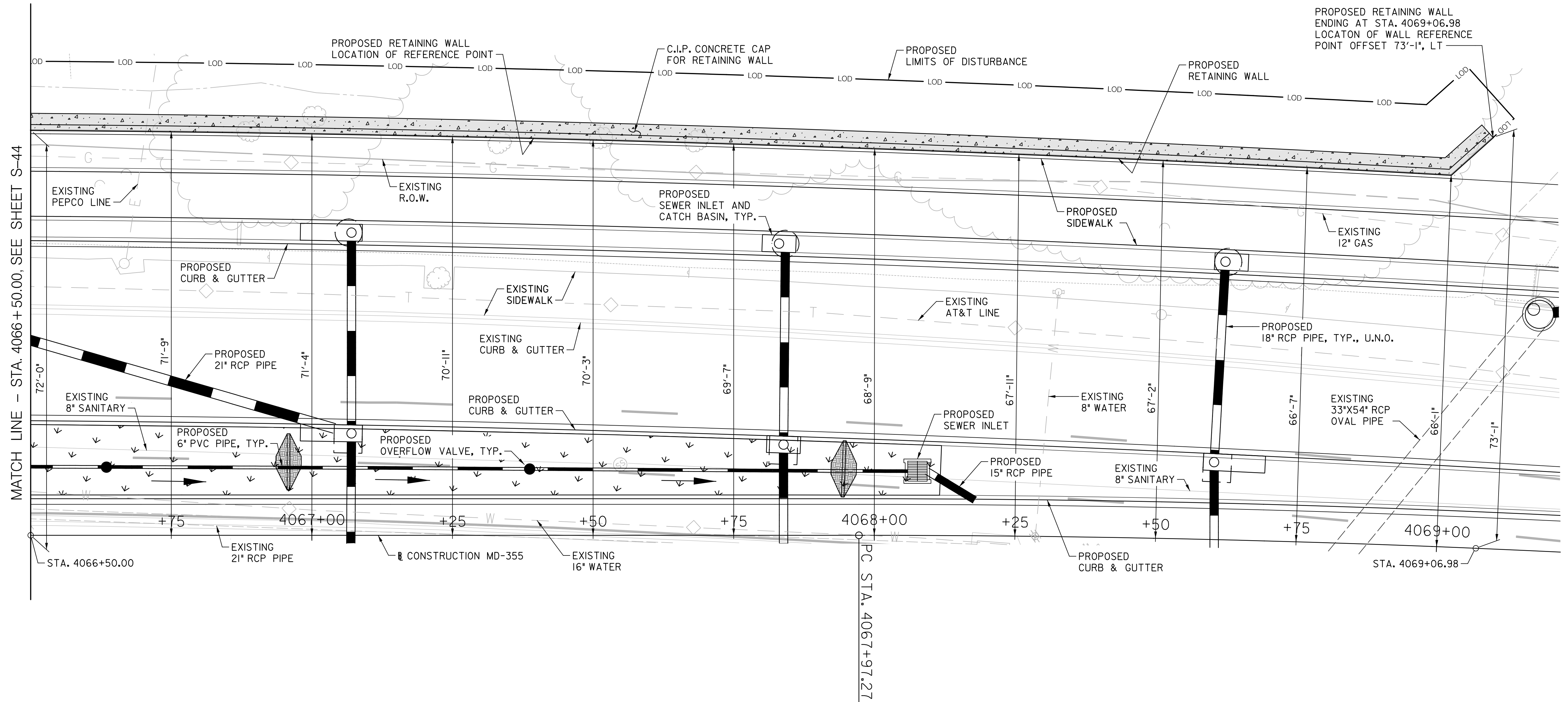
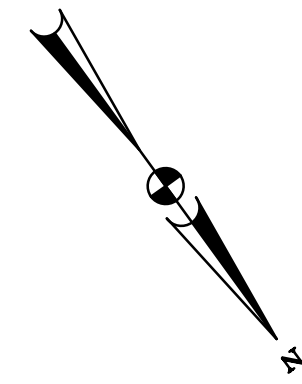
PROFESSIONAL CERTIFICATION:
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED
 OR APPROVED BY ME AND THAT I AM A DULY LICENSED
 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE
 OF MARYLAND.
 LICENSE NO: _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by: _____	Drawn by: _____
Checked by: _____	

MD 355 BUS RAPID TRANSIT (BRT)
RETAINING WALL NO. RW-404L
PLAN (1 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022
 Project No. : 502005 SHEET 784 of 887



PLAN - RETAINING WALL NO. RW-404L
 STA. 4063+80.10 TO STA. 4069+06.98
 SCALE: 1" = 10'-0"

11/1/2022
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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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

S-45

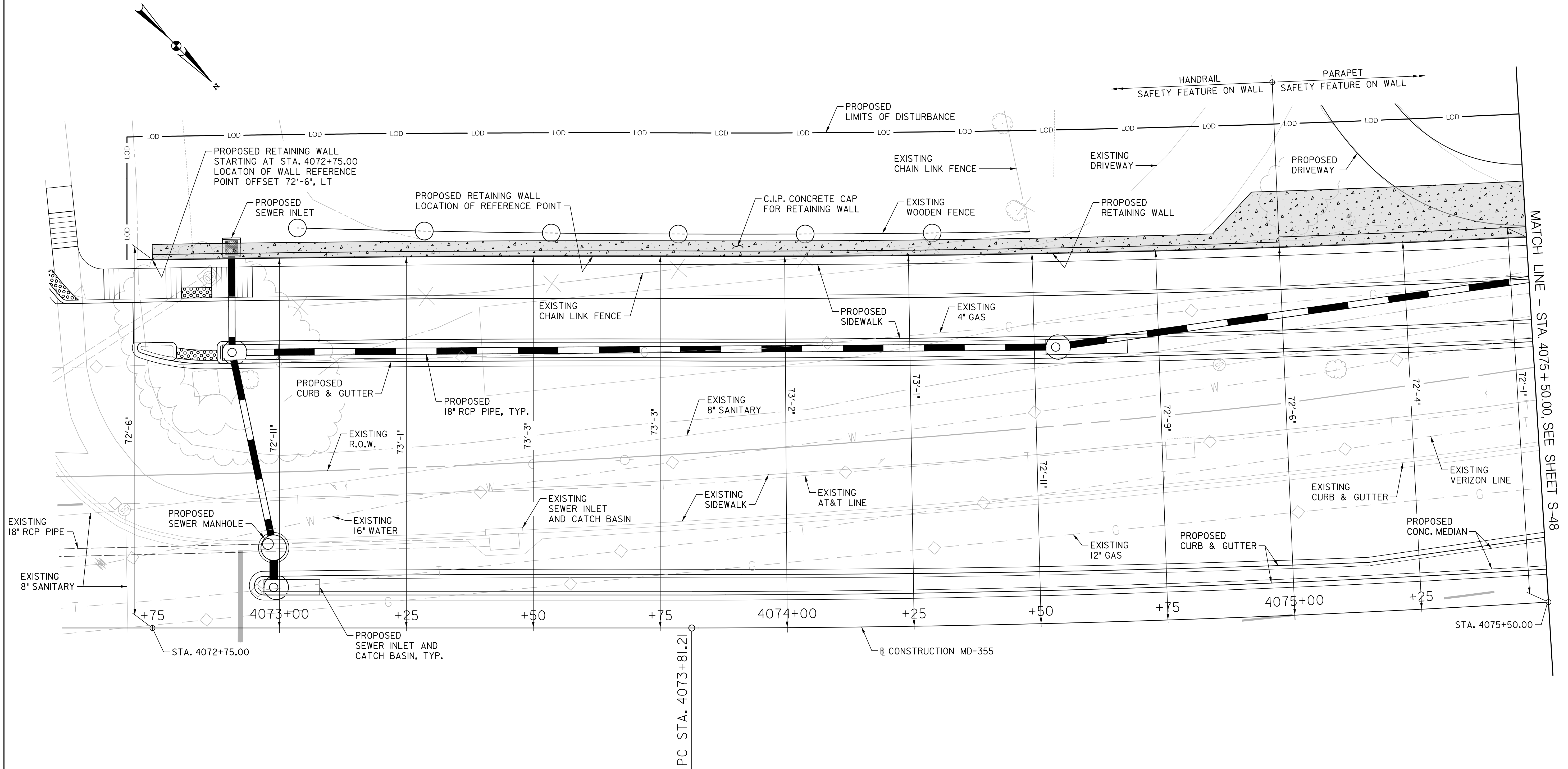
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-404L
 PLAN (2 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 785 of 887

11/1/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\3106\700 CADD\706 Struct\RetWall_406L_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-406L
 STA. 4072+75.00 TO STA. 4076+95.00
 SCALE: 1" = 10'-0"

S-47



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

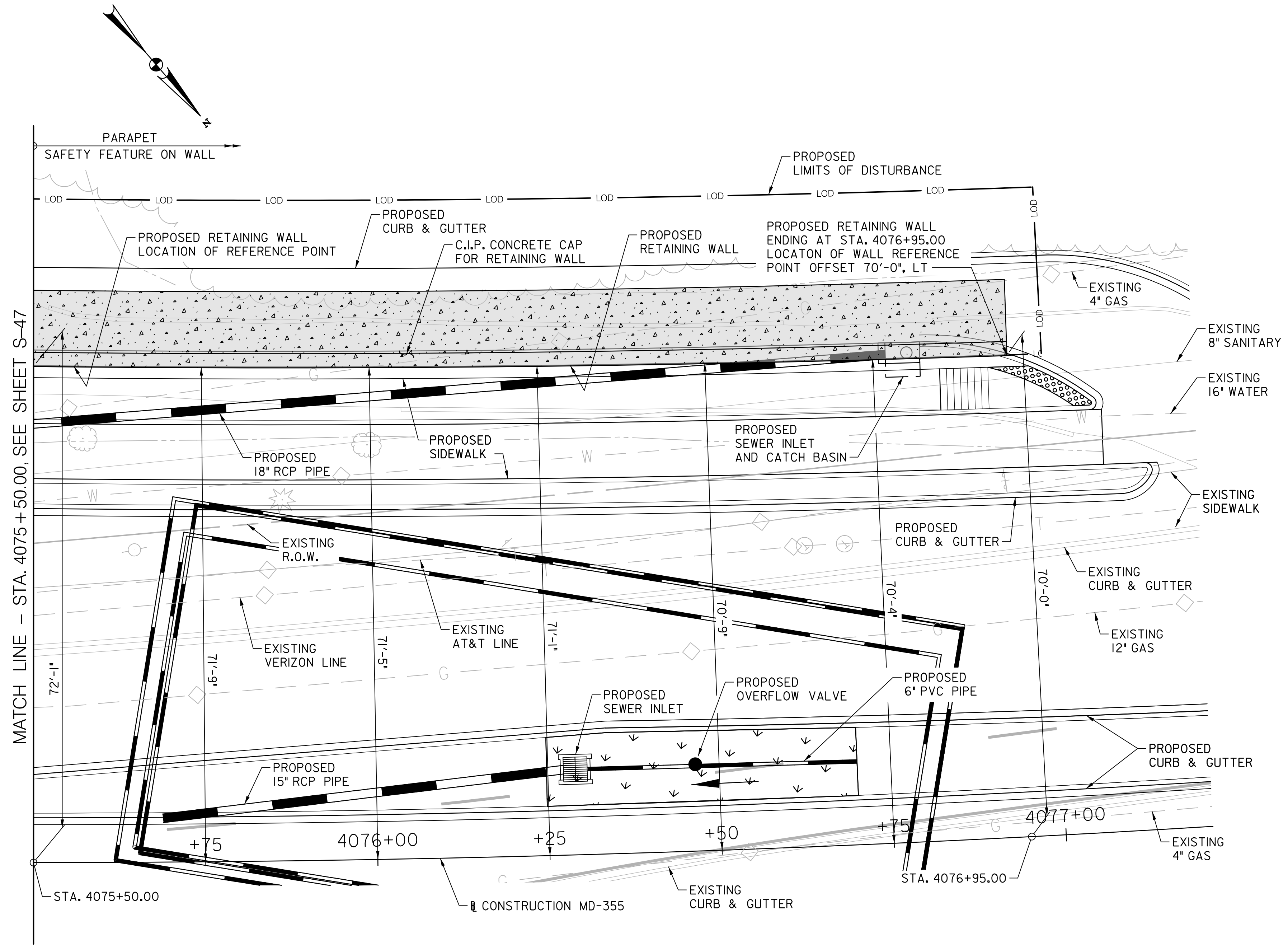
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-406L
 PLAN (1 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 787 of 887

11/1/2022
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PLAN - RETAINING WALL NO. RW-406L
 STA. 4072+75.00 TO STA. 4076+95.00
 SCALE: 1" = 10'-0"

S-48



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	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by: _____	Drawn by: _____
Checked by: _____	

MD 355 BUS RAPID TRANSIT (BRT)
 RETAINING WALL NO. RW-406L
 PLAN (2 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 788 of 887

11/1/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_407LR_Plan-Elev_MD355BRT.dgn

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S-49



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

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

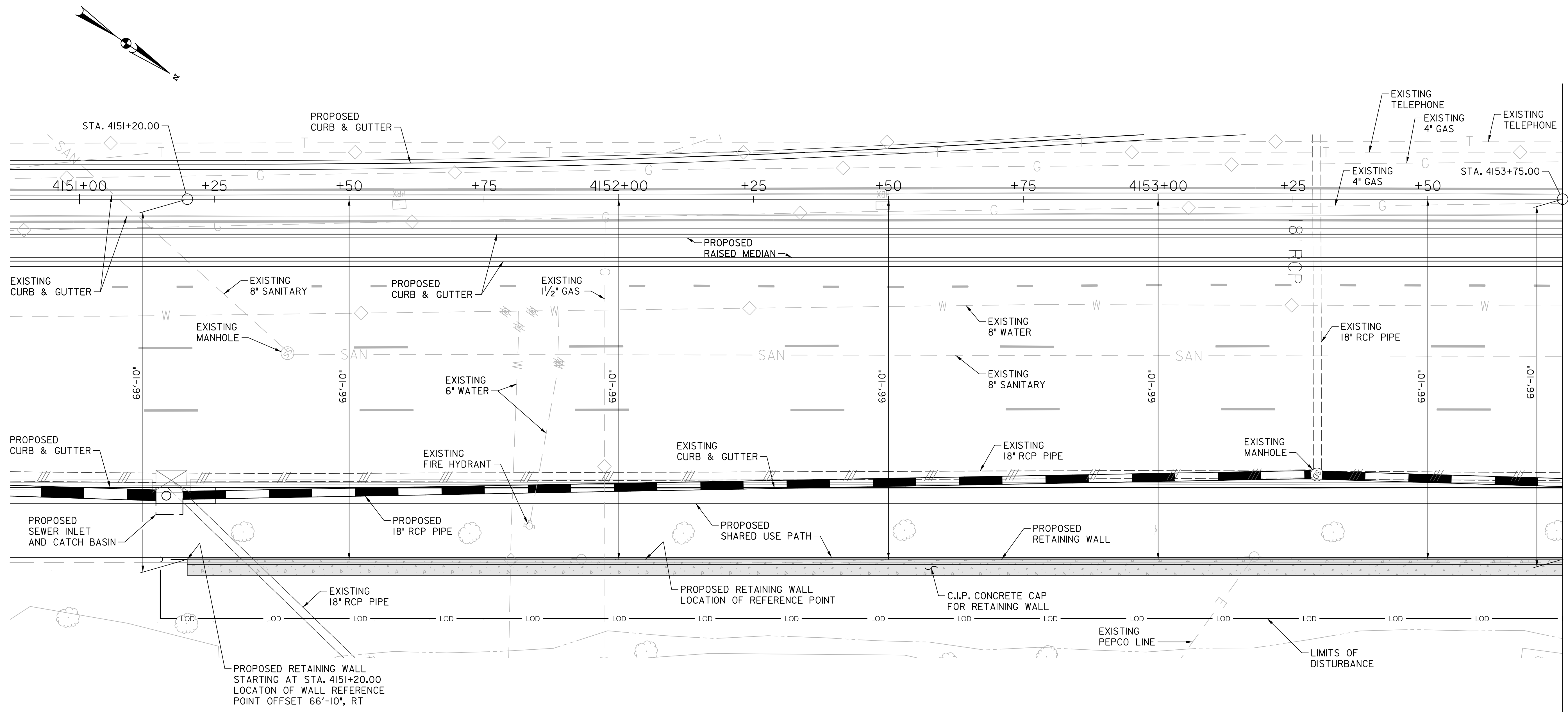
MD 355 BUS RAPID TRANSIT (BRT)

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SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 789 of 887

11/1/2022
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PLAN - RETAINING WALL NO. RW-408R
 STA. 4151+20.00 TO STA. 4154+68.34
 SCALE: 1" = 10'-0"

MATCH LINE - STA. 4153 + 75.00, SEE SHEET S-51

S-50



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

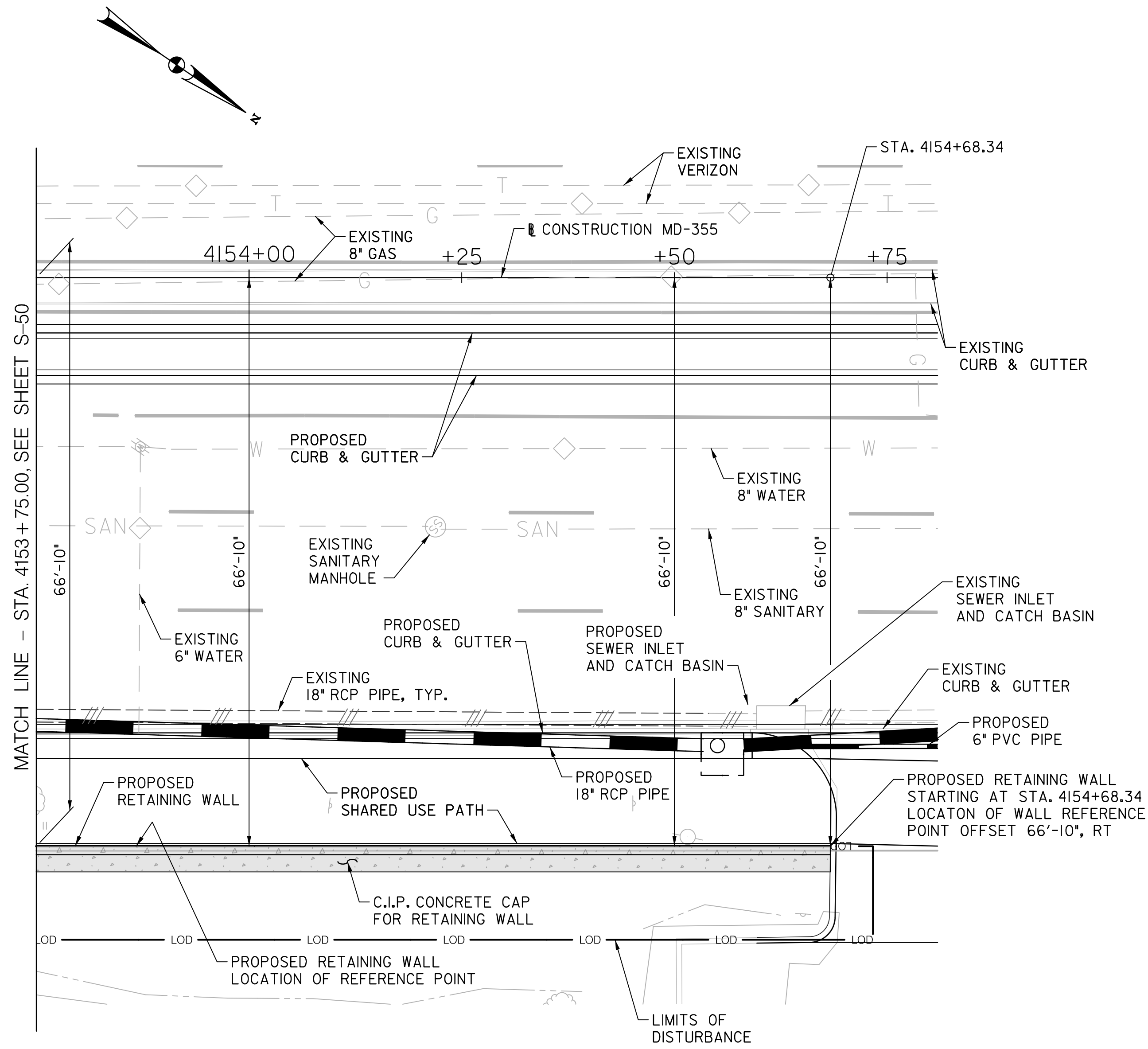
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

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

MD 355 BUS RAPID TRANSIT (BRT)
RETAINING WALL NO. RW-408R
PLAN (1 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022
 Project No. : 502005 SHEET 790 of 887

11/1/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\3106\700 CADD\706 Struct\RetWall_408R_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-408R
 STA. 4151+20.00 TO STA. 4154+68.34
 SCALE: 1" = 10'-0"

S-51



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

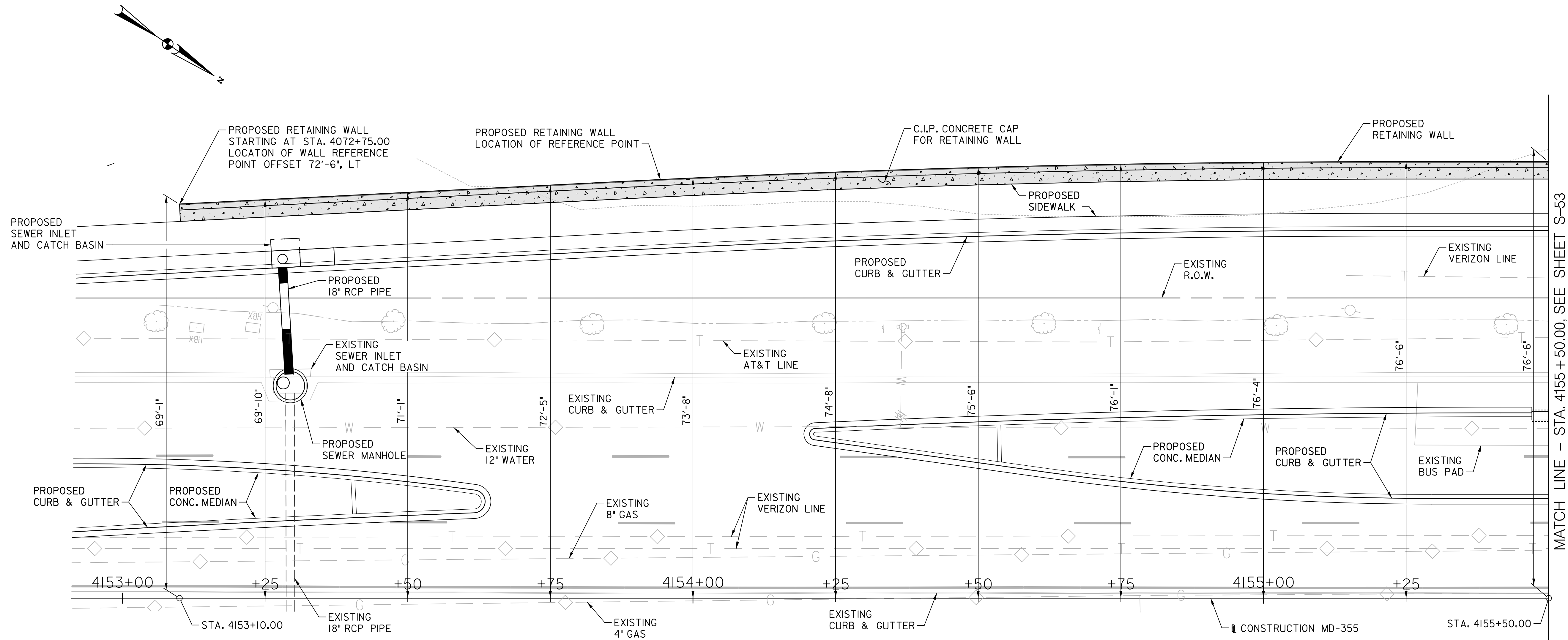
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

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

MD 355 BUS RAPID TRANSIT (BRT)
 RETAINING WALL NO. RW-408R
 PLAN (2 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022
 Project No. : 502005 SHEET 791 of 887

11/1/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_409L_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-409L
 STA. 4153+10.00 TO STA. 4156+30.00
 SCALE: 1" = 10'-0"

MATCH LINE - STA. 4155 + 50.00, SEE SHEET S-53

S-52



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

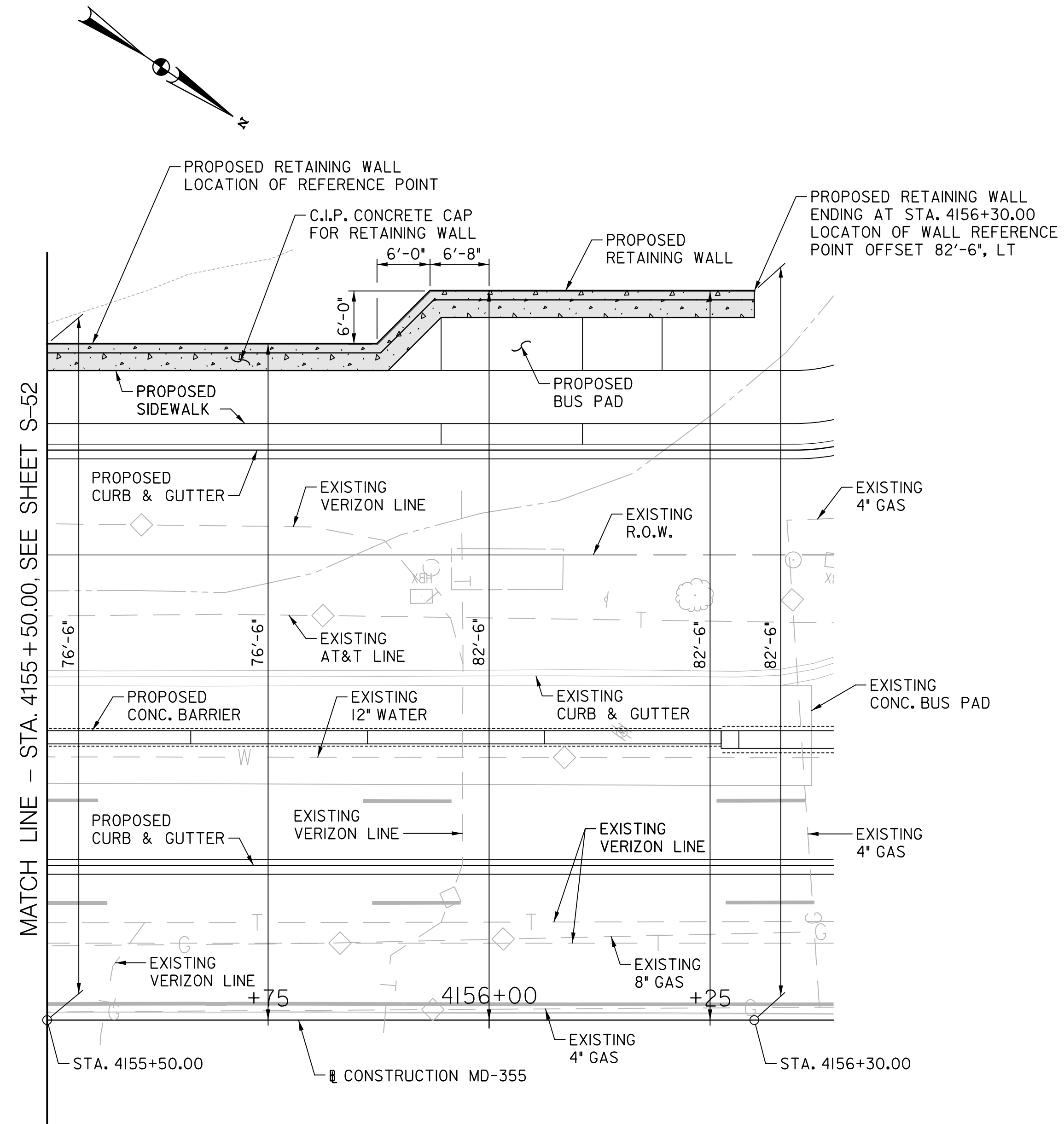
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-409L
 PLAN (1 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 792 of 887

11/1/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_409L_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-409L
 STA. 4153+10.00 TO STA. 4156+30.00
 SCALE: 1" = 10'-0"

S-53



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	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by : _____	Drawn by : _____
Checked by : _____	

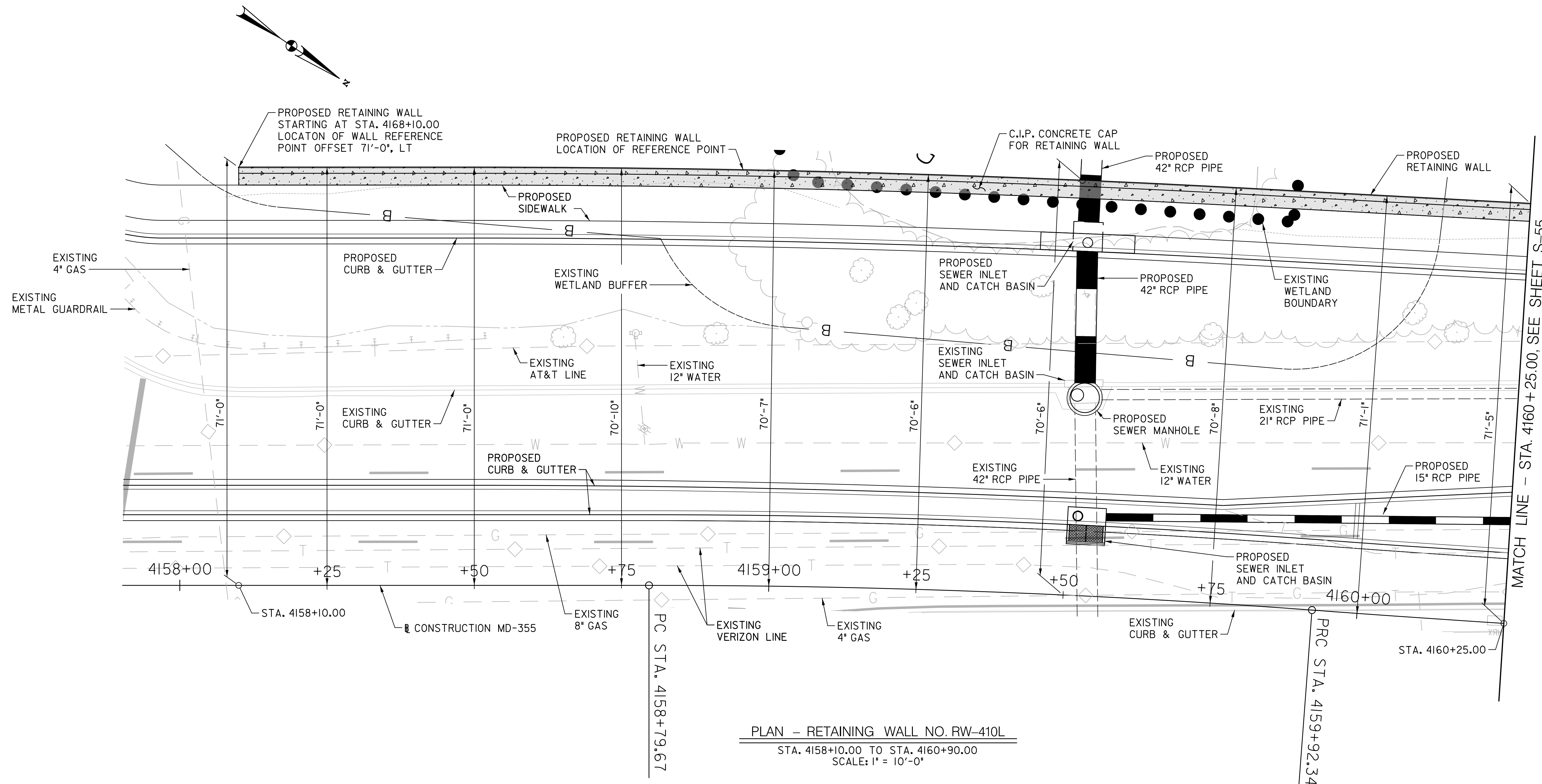
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-409L
PLAN (2 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 793 of 887

11/1/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2026213106\700 CADD\706 Struct\RetWall_410L_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-410L
 STA. 4158+10.00 TO STA. 4160+90.00
 SCALE: 1" = 10'-0"

S-54



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

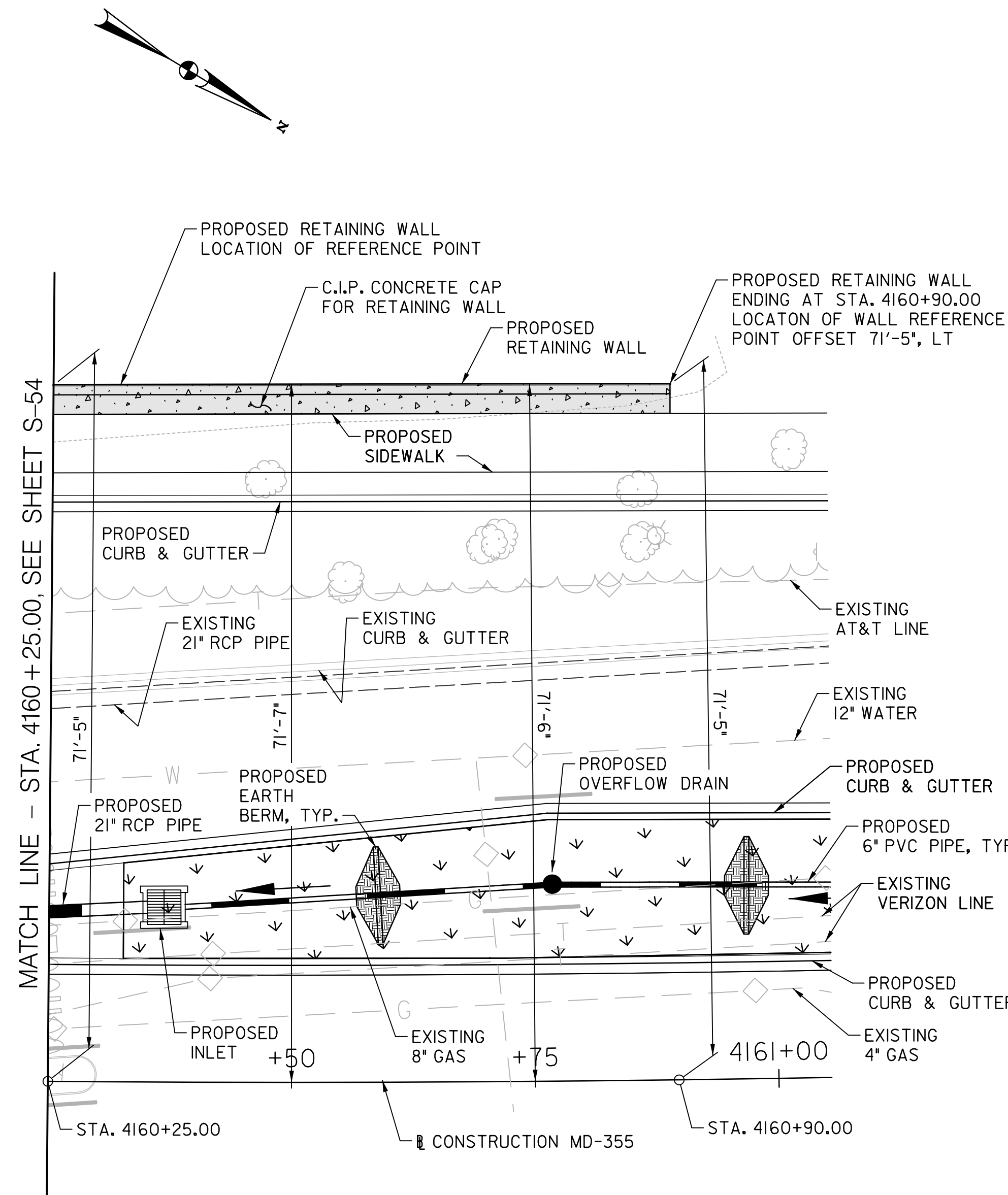
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

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

MD 355 BUS RAPID TRANSIT (BRT)
RETAINING WALL NO. RW-410L
PLAN (1 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022
 Project No. : 502005 SHEET 794 of 887

11/1/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_410L_Plan-Elev_MD355BRT.dgn

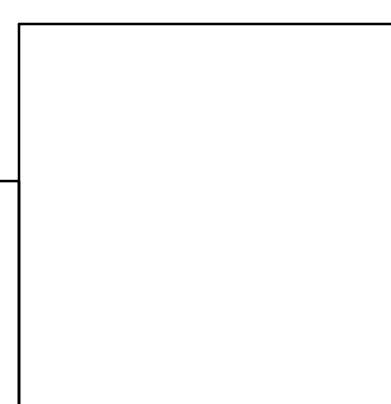


PLAN - RETAINING WALL NO. RW-410L
 STA. 4158+10.00 TO STA. 4160+90.00
 SCALE: 1" = 10'-0"

S-55



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

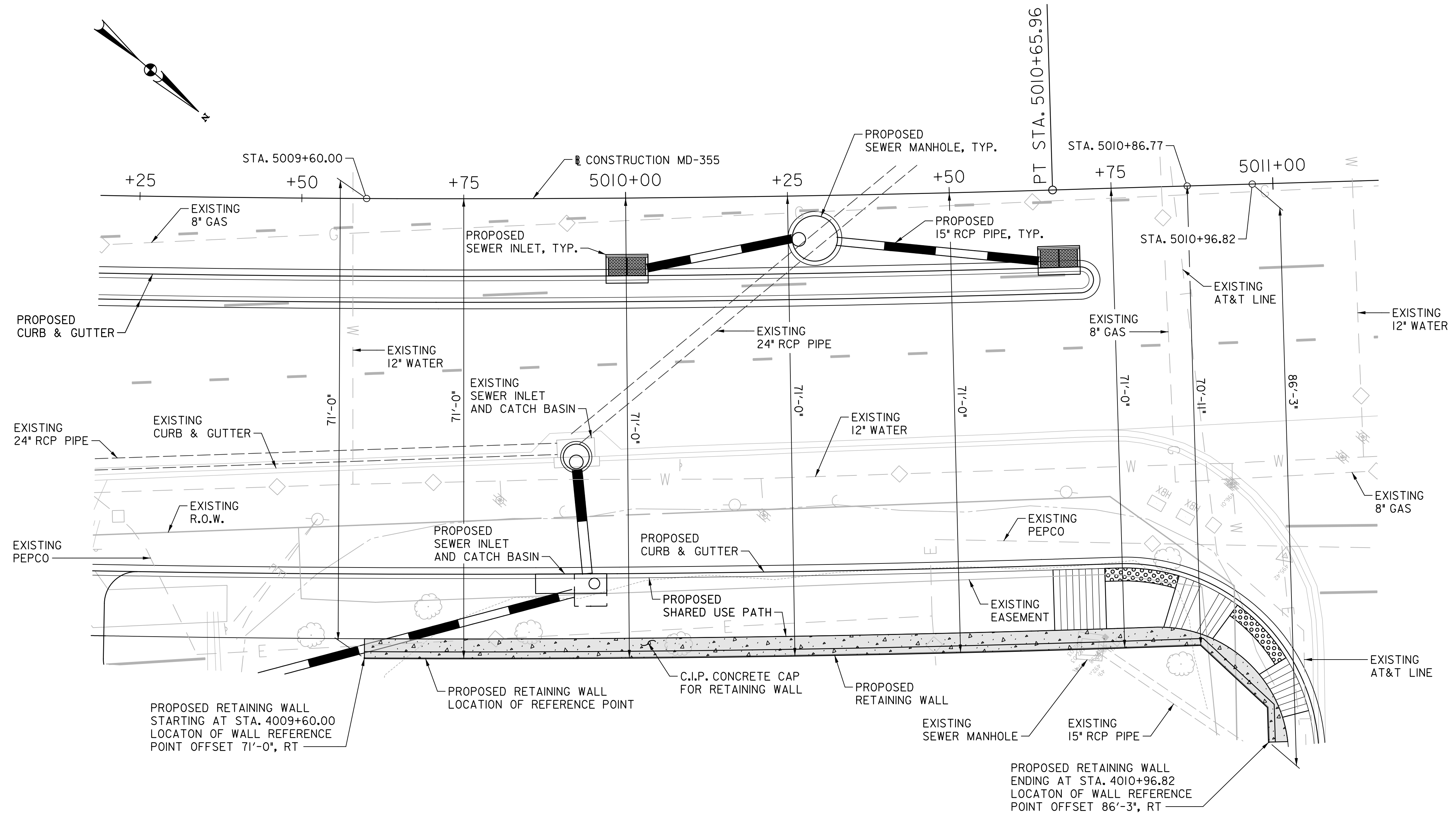
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by : _____	Drawn by : _____
Checked by : _____	

MD 355 BUS RAPID TRANSIT (BRT)
RETAINING WALL NO. RW-410L
PLAN (2 OF 2)

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 795 of 887

11/1/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\3106\700 CADD\706 Struct\RetWall_501R_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-501R
 STA. 5009+60.00 TO STA. 5010+96.82
 SCALE: 1" = 10'-0"

S-56



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

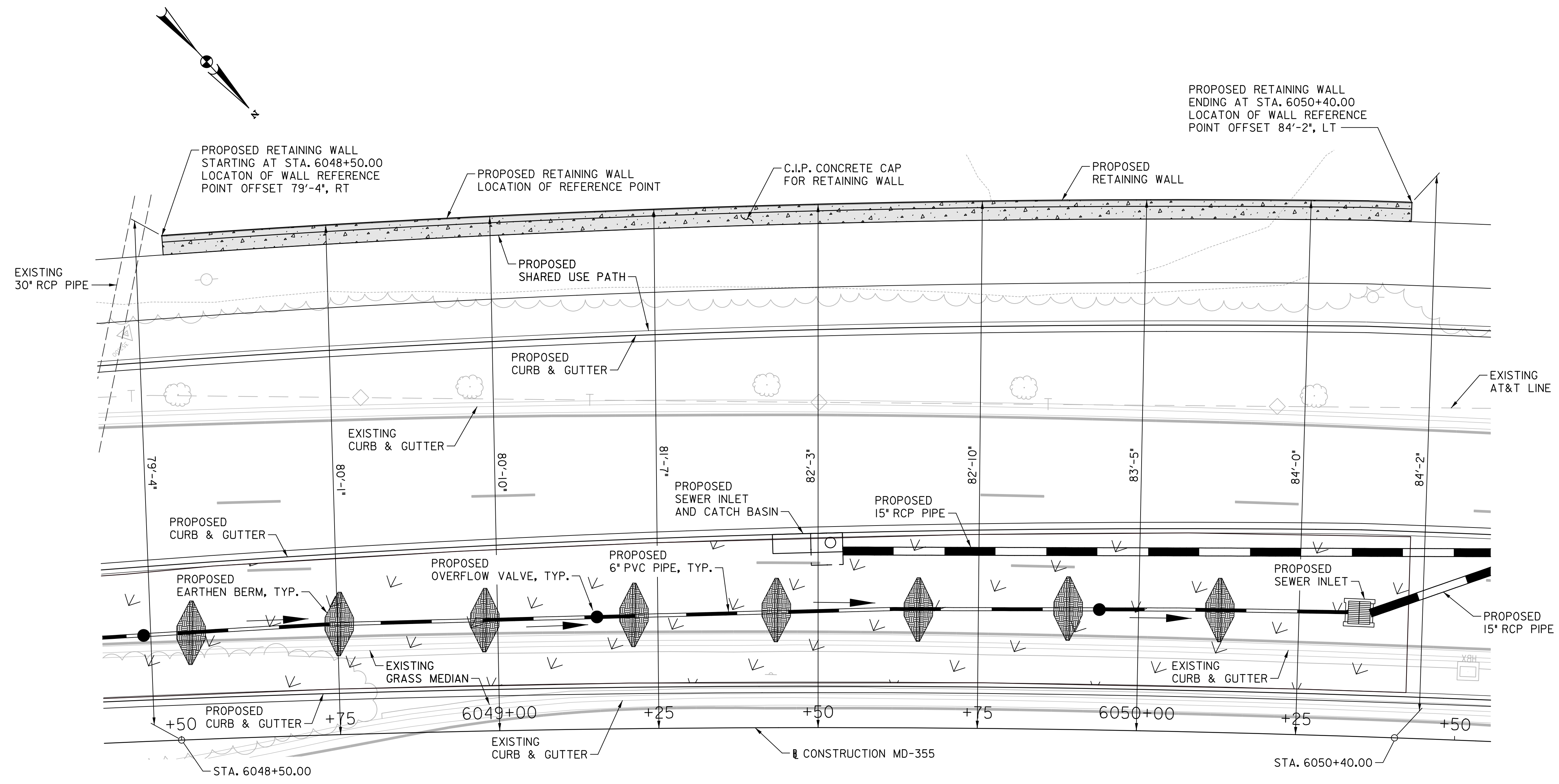
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

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

MD 355 BUS RAPID TRANSIT (BRT)
RETAINING WALL NO. RW-501L
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022
 Project No. : 502005 SHEET 796 of 887

11/1/2022 P:\st\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_601L_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-601L
 STA. 6048+50.00 TO STA. 6050+40.00
 SCALE: 1" = 10'-0"

S-57



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

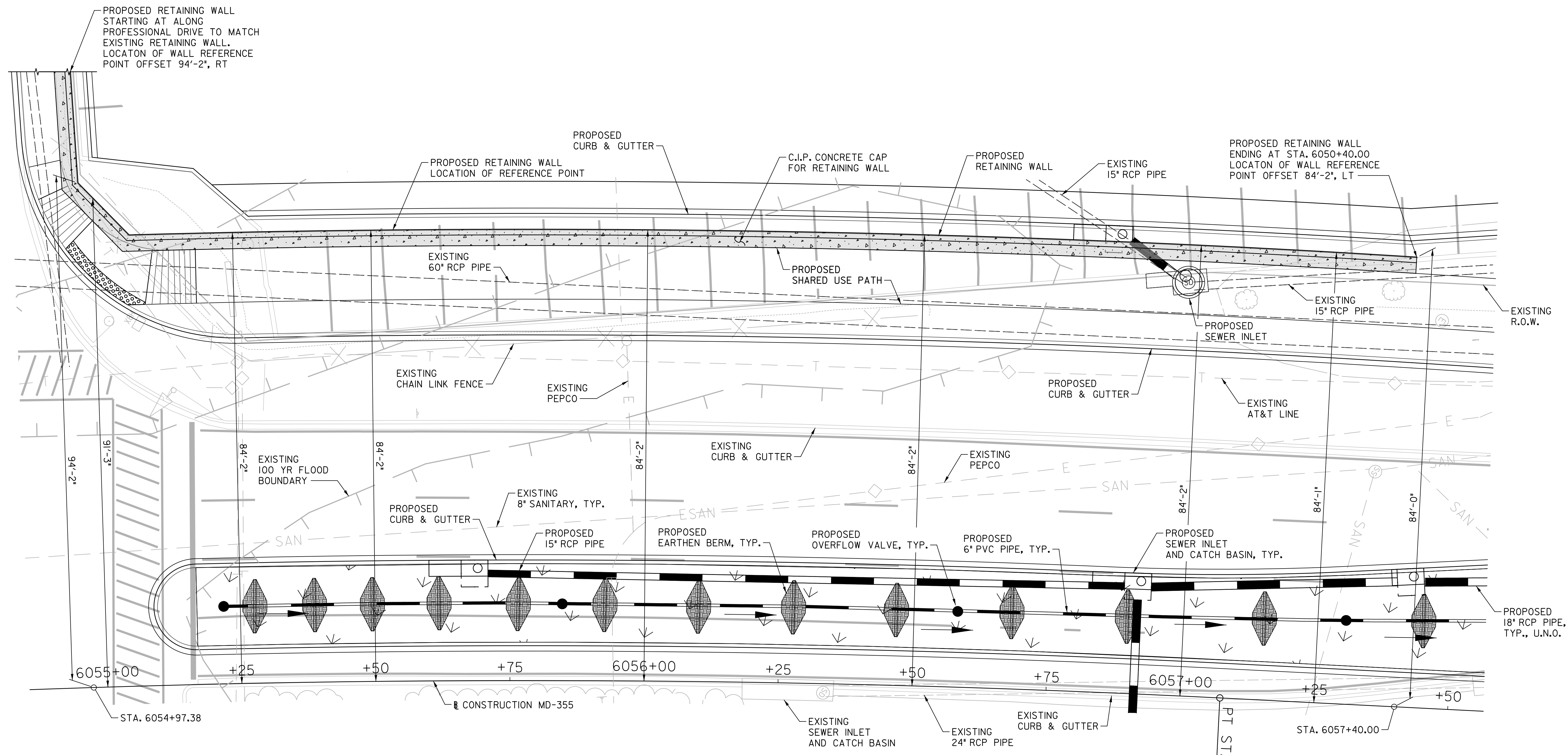
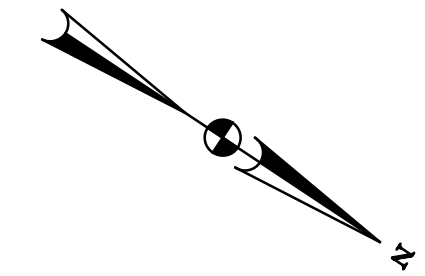
Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 RETAINING WALL NO. RW-601L
 PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 797 of 887

11/3/2022 P:\stntec-sc-pw\stntec.com\stntec-sc-pw-02\Documents\2022\3106\700 CADD\706 Struct\RetWall_602L_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-602L
 STA. 6054+97.38 TO STA. 6057+40.00
 SCALE: 1" = 10'-0"

S-58



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

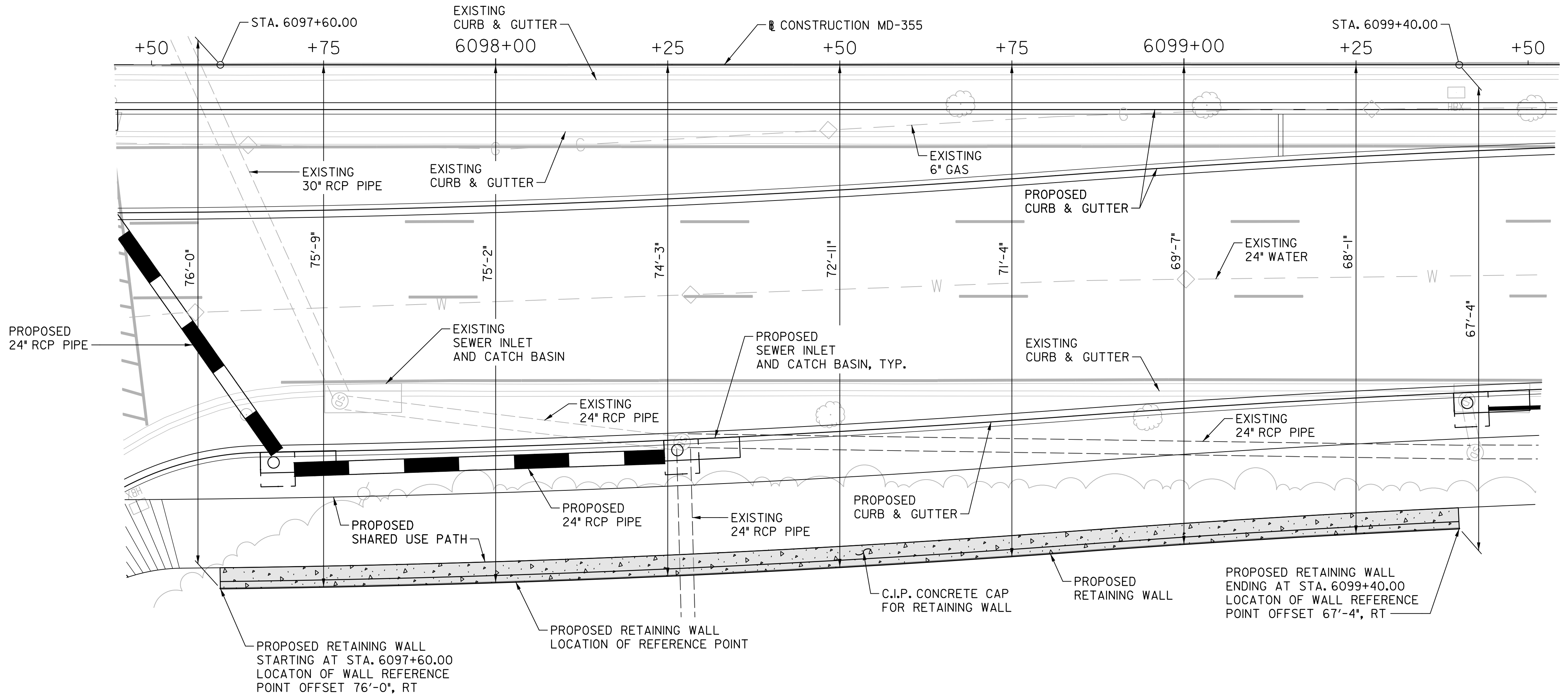
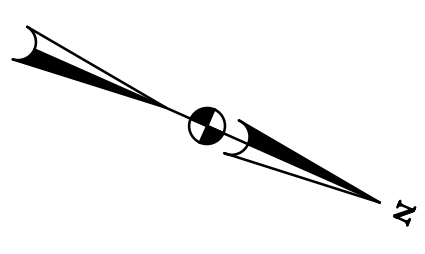
Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-602L
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 798 of 887



PLAN - RETAINING WALL NO. RW-603R
 STA. 6097+60.00 TO STA. 6099+40.00
 SCALE: 1" = 10'-0"

10/26/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_603R_Plan-Elev_MD355BRT.dgn

S-59



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

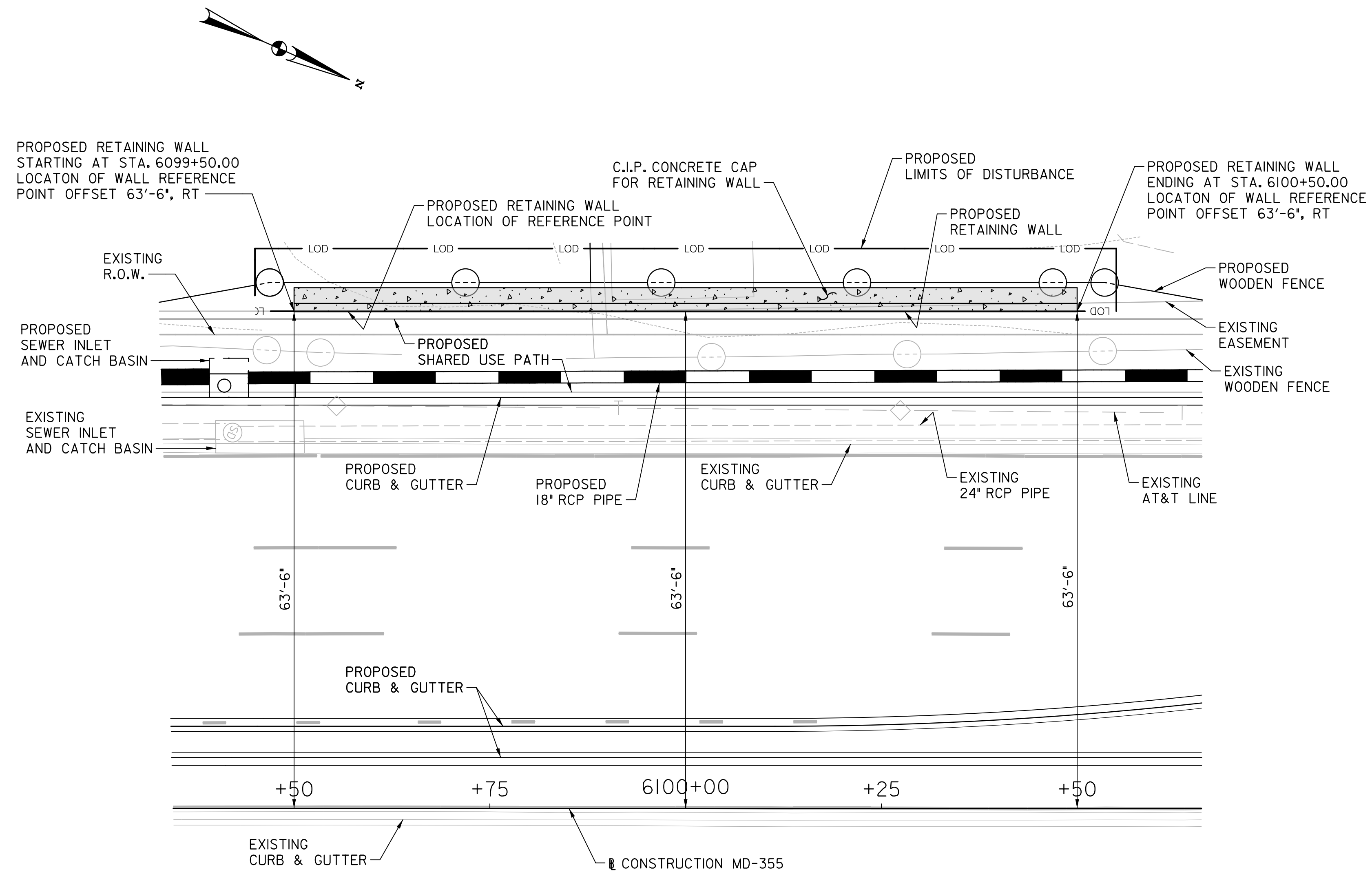
Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 RETAINING WALL NO. RW-603R
 PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 799 of 887

10/26/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\306\700 CADD\706 Struct\RetWall_604L_Plan-Elev_MD355BRT.dgn

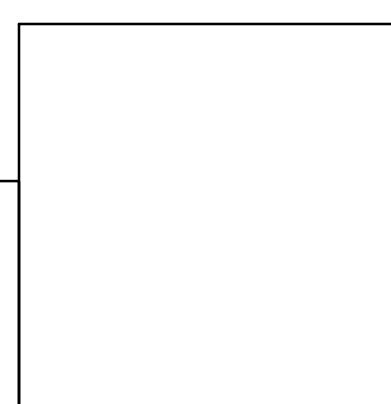


PLAN - RETAINING WALL NO. RW-604L
 STA. 6099+50.00 TO STA. 6100+50.00
 SCALE: 1" = 10'-0"

S-60



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

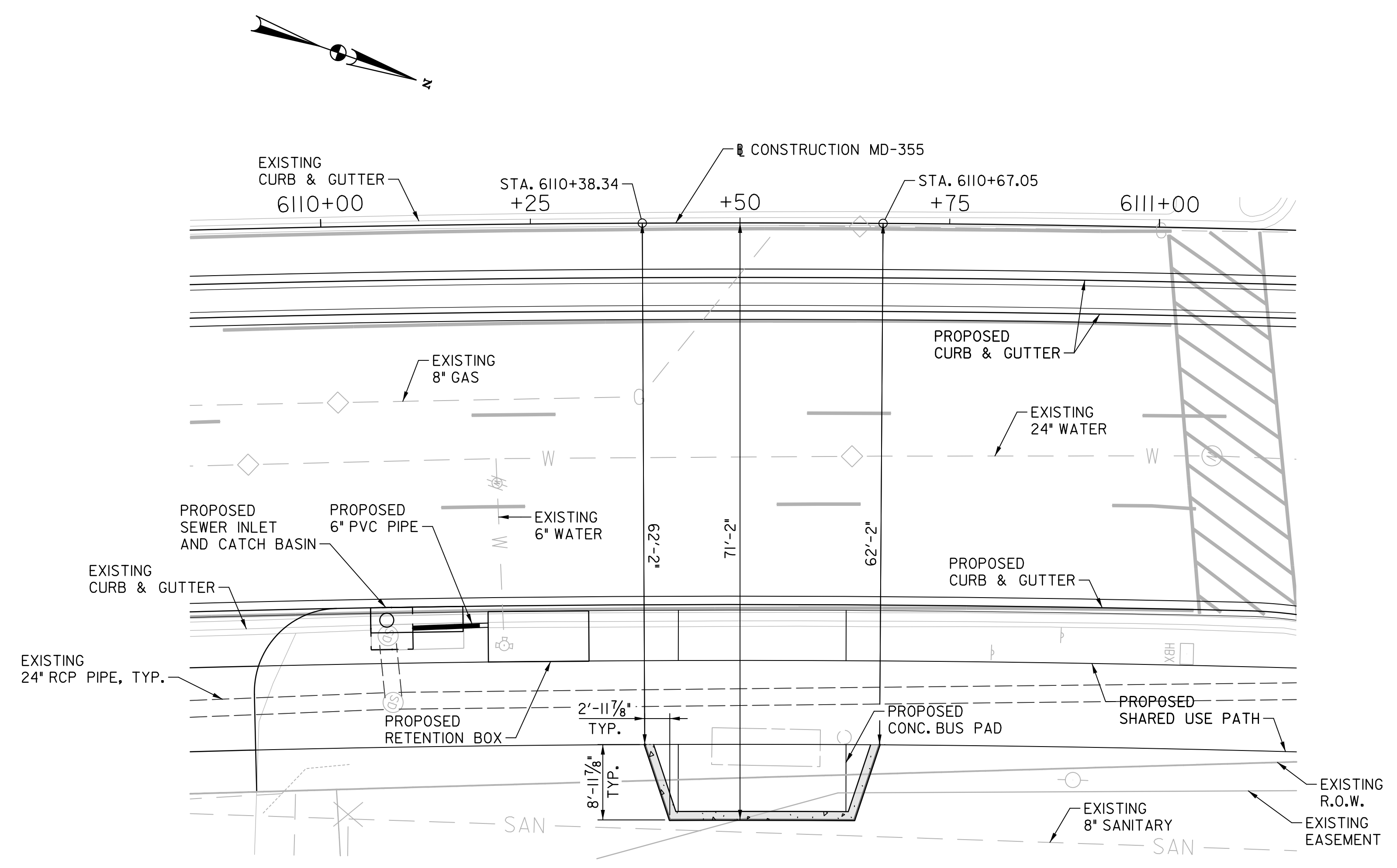
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-604L
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 800 of 887

10/26/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_605R_Plan-Elev_MD355BRT.dgn

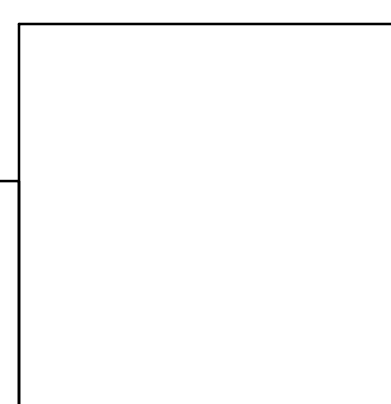


PLAN - RETAINING WALL NO. RW-605R
 STA. 6110+38.34 TO STA. 6110+67.05
 SCALE: 1" = 10'-0"

S-61



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

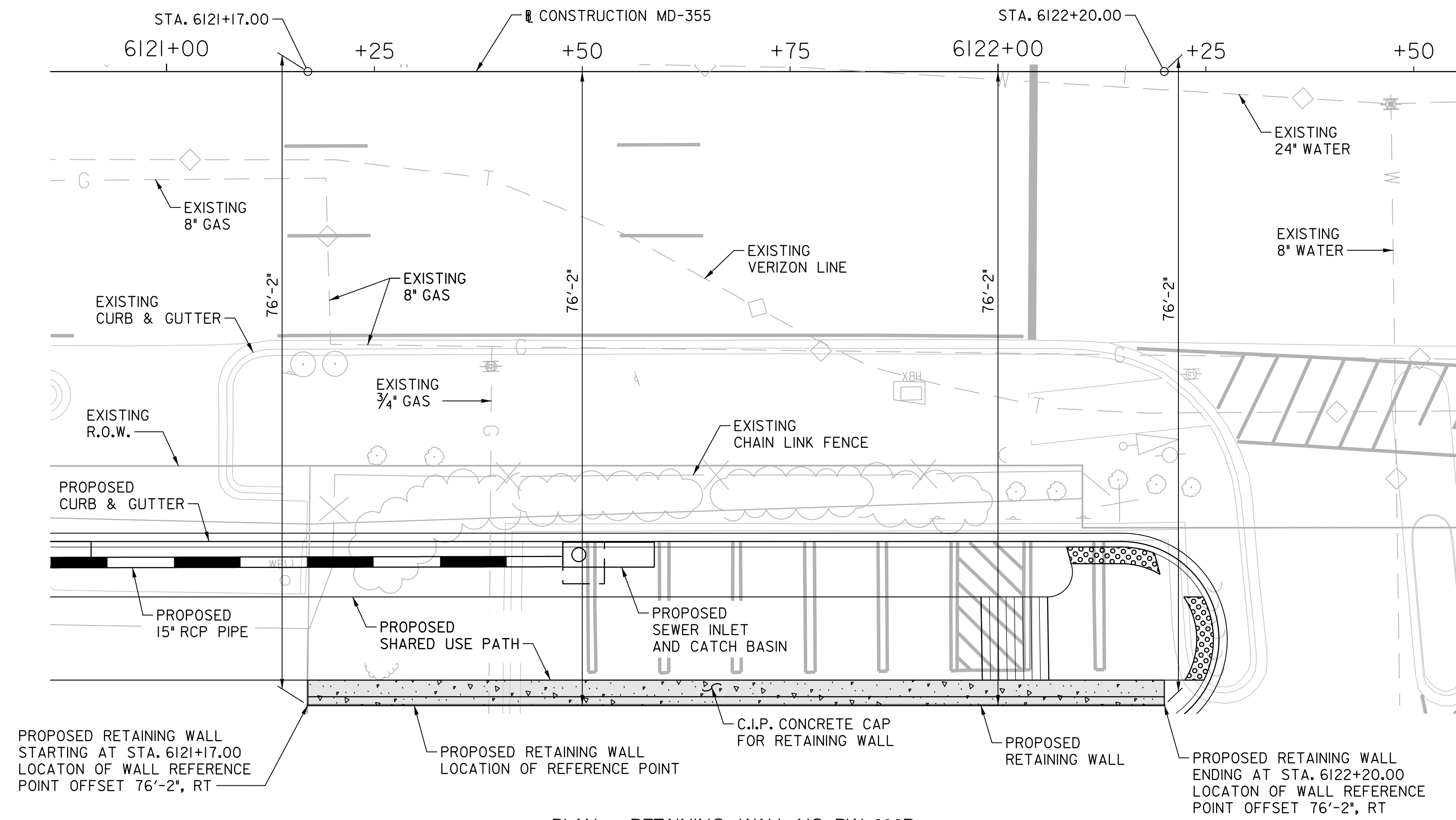
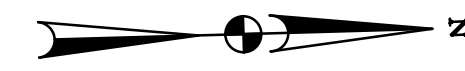
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by: _____	Drawn by: _____
Checked by: _____	

MD 355 BUS RAPID TRANSIT (BRT)
RETAINING WALL NO. RW-605R
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 801 of 887

10/27/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_606R_Plan-Elev_MD355BRT.dgn



S-62



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

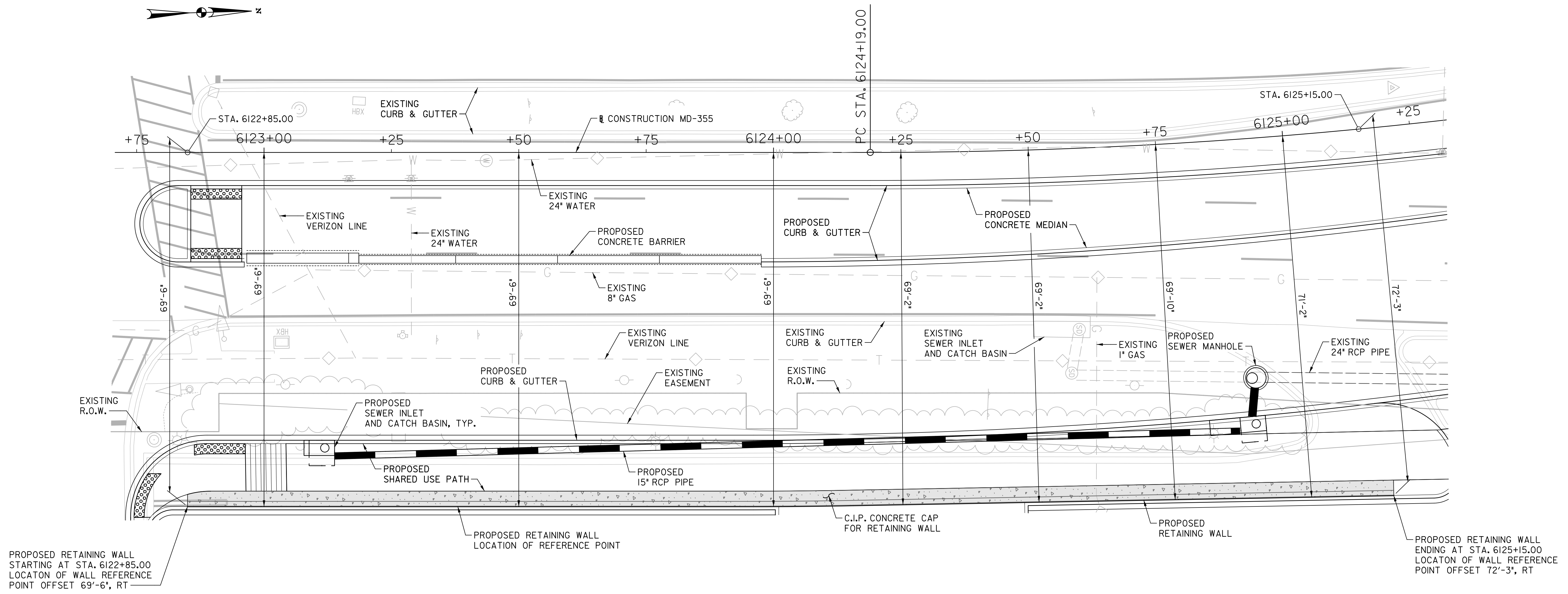
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL NO. RW-606R
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 802 of 887

10/28/2022 p:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\706 Struct\RetWall_607R_Plan-Elev_MD355BRT.dgn



PLAN - RETAINING WALL NO. RW-607R
 STA. 6122+85.00 TO STA. 6125+15.00
 SCALE: 1" = 10'-0"

S-63



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

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

MD 355 BUS RAPID TRANSIT (BRT)
RETAINING WALL NO. RW-607R
PLAN

SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 803 of 887

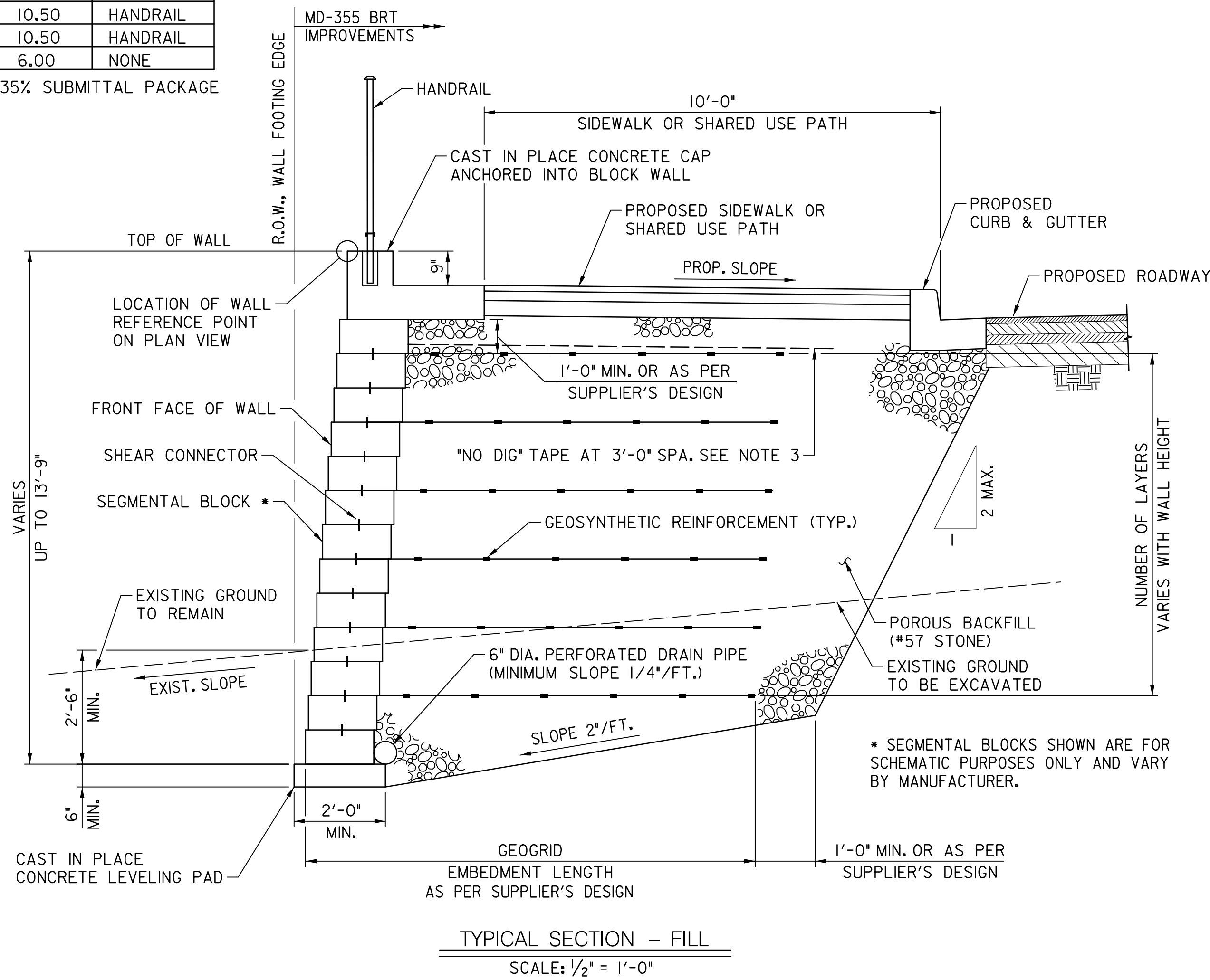
RETAINING WALL TABLE						
SEGMENT NO.	RETAINING WALL NAME	STARTING STATION	ENDING STATION	RETAINING WALL LENGTH (FT)	RETAINING WALL MAX. HEIGHT (FT)	SAFETY FEATURE ON WALL
2	RW-200R	2008+37.00	2009+19.00	82.00	8.50	HANDRAIL
2	RW-201R	2014+10.00	2018+20.00	410.00	7.25	HANDRAIL
2	RW-202L	2016+50.00	2018+45.00	195.00	8.00	HANDRAIL
2	RW-203R	2020+60.00	2024+10.00	350.00	9.75	HANDRAIL
2	RW-204L	2020+20.00	2032+90.00	1,270.00	10.75	HANDRAIL
2	RW-205R	2050+00.00	2050+75.00	75.00	6.50	HANDRAIL
2	RW-206R	2052+10.00	2054+60.00	250.00	8.50	HANDRAIL
2	RW-207R	2091+00.00	2091+95.00	95.00	8.00	HANDRAIL
2	RW-208R	2160+50.00	2162+95.00	245.00	5.00	HANDRAIL
2	RW-209R	2173+25.00	2173+85.00	60.00	5.00	HANDRAIL
2	RW-210R	2174+20.00	2179+15.00	495.00	6.50	HANDRAIL
2	RW-211L	2176+50.00	2177+60.00	110.00	6.25	HANDRAIL
2	RW-212L	2184+75.00	2185+90.00	115.00	10.50	HANDRAIL
2	RW-213L	2231+15.00	2233+25.00	210.00	10.50	HANDRAIL
2	RW-214R*	2235+50.00	3001+25.00	175.35	6.00	NONE

* - INDICATES THE RETAINING WALL PLAN SHEET IS NOT PROVIDED IN THE 35% SUBMITTAL PACKAGE

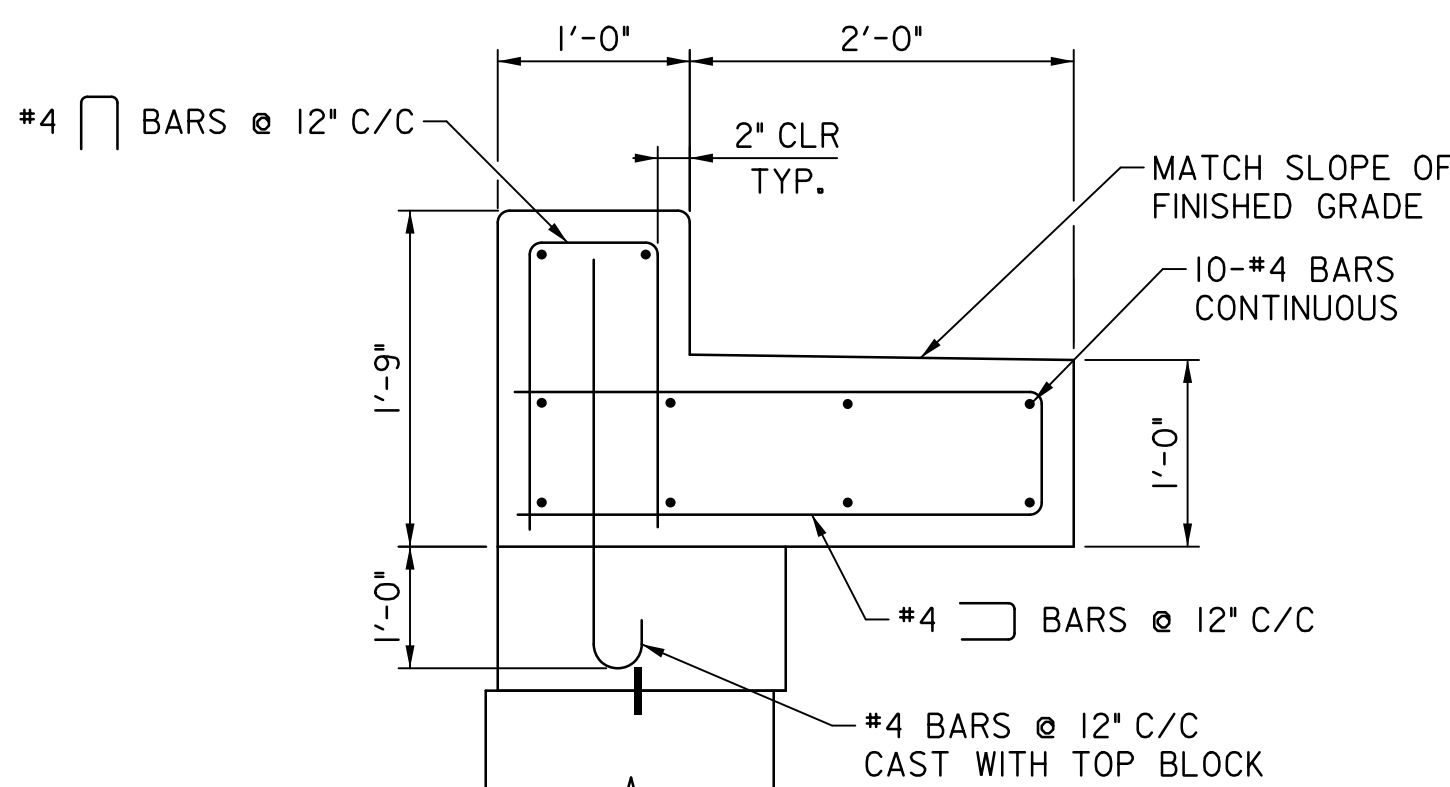
RETAINING WALL TABLE						
SEGMENT NO.	RETAINING WALL NAME	STARTING STATION	ENDING STATION	RETAINING WALL LENGTH (FT)	RETAINING WALL MAX. HEIGHT (FT)	SAFETY FEATURE ON WALL
3	RW-301L	3000+10.00	3002+50.00	240.00	11.50	HANDRAIL
3	RW-302R	3007+85.00	3011+75.00	390.00	8.00	HANDRAIL
3	RW-303R	129+80.00	135+50.00	570.00	6.50	PARAPET
3	RW-304L	253+40.00	255+60.00	220.00	5.55	HANDRAIL
3	RW-305L	256+25.00	257+10.00	85.00	5.25	HANDRAIL
3	RW-306L	257+40.00	261+00.00	2360.00	5.00	HANDRAIL
3	RW-307L	262+00.00	269+25.00	725.00	6.00	HANDRAIL

RETAINING WALL TABLE						
SEGMENT NO.	RETAINING WALL NAME	STARTING STATION	ENDING STATION	RETAINING WALL LENGTH (FT)	RETAINING WALL MAX. HEIGHT (FT)	SAFETY FEATURE ON WALL
4	RW-401R	3092+75.00	4000+25.00	148.00	7.50	HANDRAIL
4	RW-402R	4000+65.00	4000+88.00	23.00	7.50	HANDRAIL
4	RW-403L	4004+10.00	4006+00.00	190.00	6.50	HANDRAIL
4	RW-404L	4063+80.00	4069+00.00	520.00	7.50	HANDRAIL
4	RW-405L	4069+60.00	4071+60.00	200.00	11.50	HANDRAIL
4	RW-406L	4072+75.00	4076+95.00	420.00	15.50	HDRL/PARA
4	RW-407L*	4135+31.00	4135+50.00	19.00	7.50	HANDRAIL
4	RW-407R*	4137+22.00	4138+62.00	140.00	7.50	HANDRAIL
4	RW-408R	4151+20.00	4154+68.34	348.34	6.25	HANDRAIL
4	RW-409L	4153+10.00	4156+30.00	320.00	12.50	HANDRAIL
4	RW-410L	4158+10.00	4160+90.00	280.00	9.25	HANDRAIL

* - INDICATES THE RETAINING WALL PLAN SHEET IS NOT PROVIDED IN THE 35% SUBMITTAL PACKAGE



TYPICAL SECTION - FILL
SCALE: 1/2" = 1'-0"



CONCRETE CAP DETAILS
HANDRAIL NOT SHOWN FOR CLARITY
SCALE: 1" = 1'-0"

NOTES:

- ALL REINFORCING STEEL SHALL BE EPOXY COATED. THE COST OF REINFORCING STEEL IS INCIDENTAL TO PORTLAND CEMENT CONCRETE.
- NO DIG TAPE SHALL BE PLACED ABOVE THE GEOSYNTHETIC REINFORCEMENT AT 3'-0" ON CENTER. THE NO DIG TAPE SHALL EXTEND A MINIMUM OF 2'-0" BEYOND THE END OF THE GEOSYNTHETIC REINFORCEMENT.
- THE DESIGN OF THE TEMPORARY SHEETING, SHORING AND TEMPORARY SUPPORT SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE DONE BY A PROFESSIONAL ENGINEER REGISTERED IN STATE OF MARYLAND, AND SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE CONSTRUCTION. THE WORK WILL NOT BE MEASURED BUT THE COST WILL BE INCIDENTAL TO OTHER ITEMS SPECIFIED.

11/1/2022 p:\stntec-sc-pw\bentley.com\stntec-sc-pw-02\Documents\2022\306\700 CADD\706 Struct\RetWall_Typ-Sect.dgn



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

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

S-64

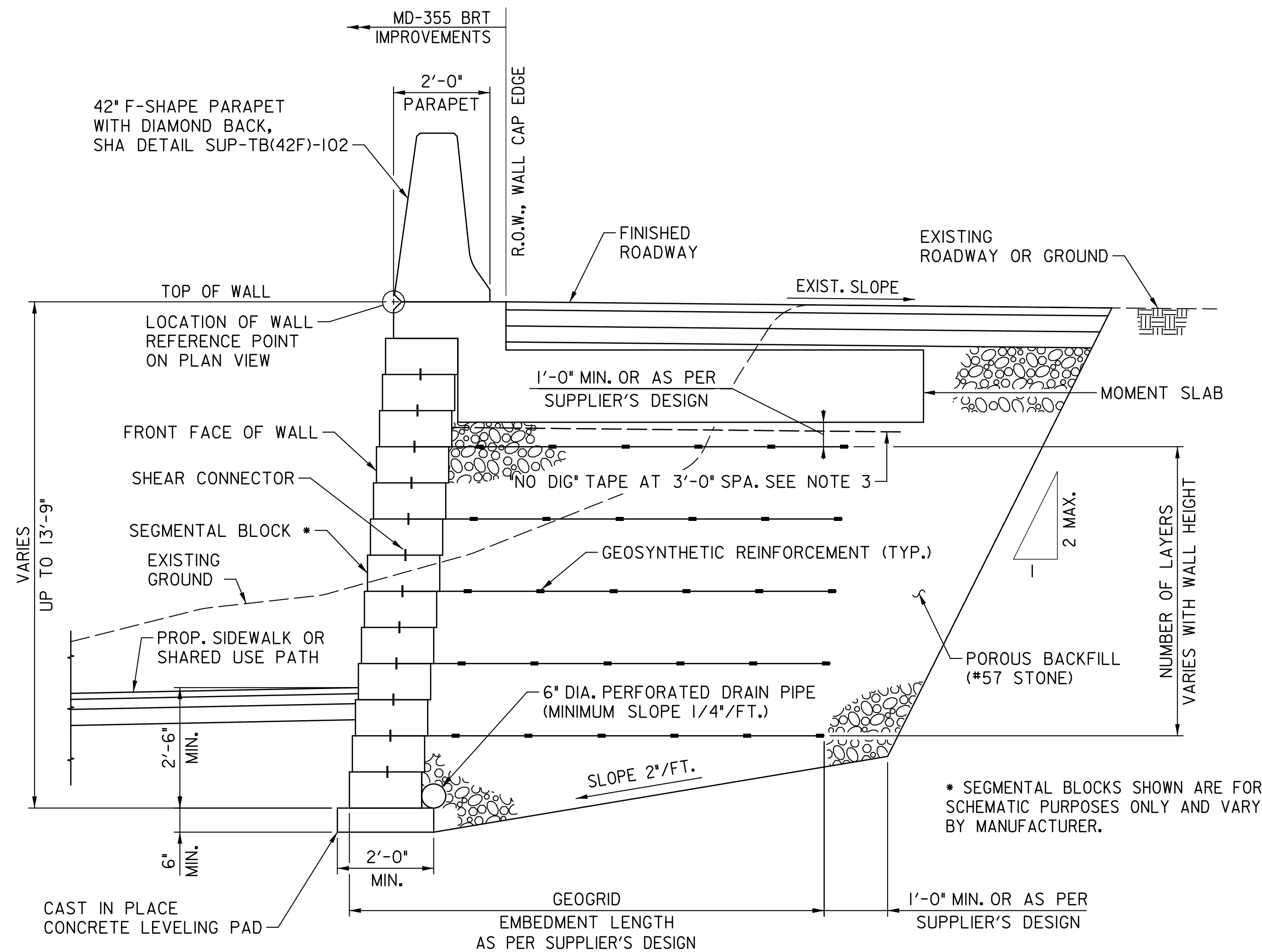
MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL
TYPICAL SECTION (1 OF 2)

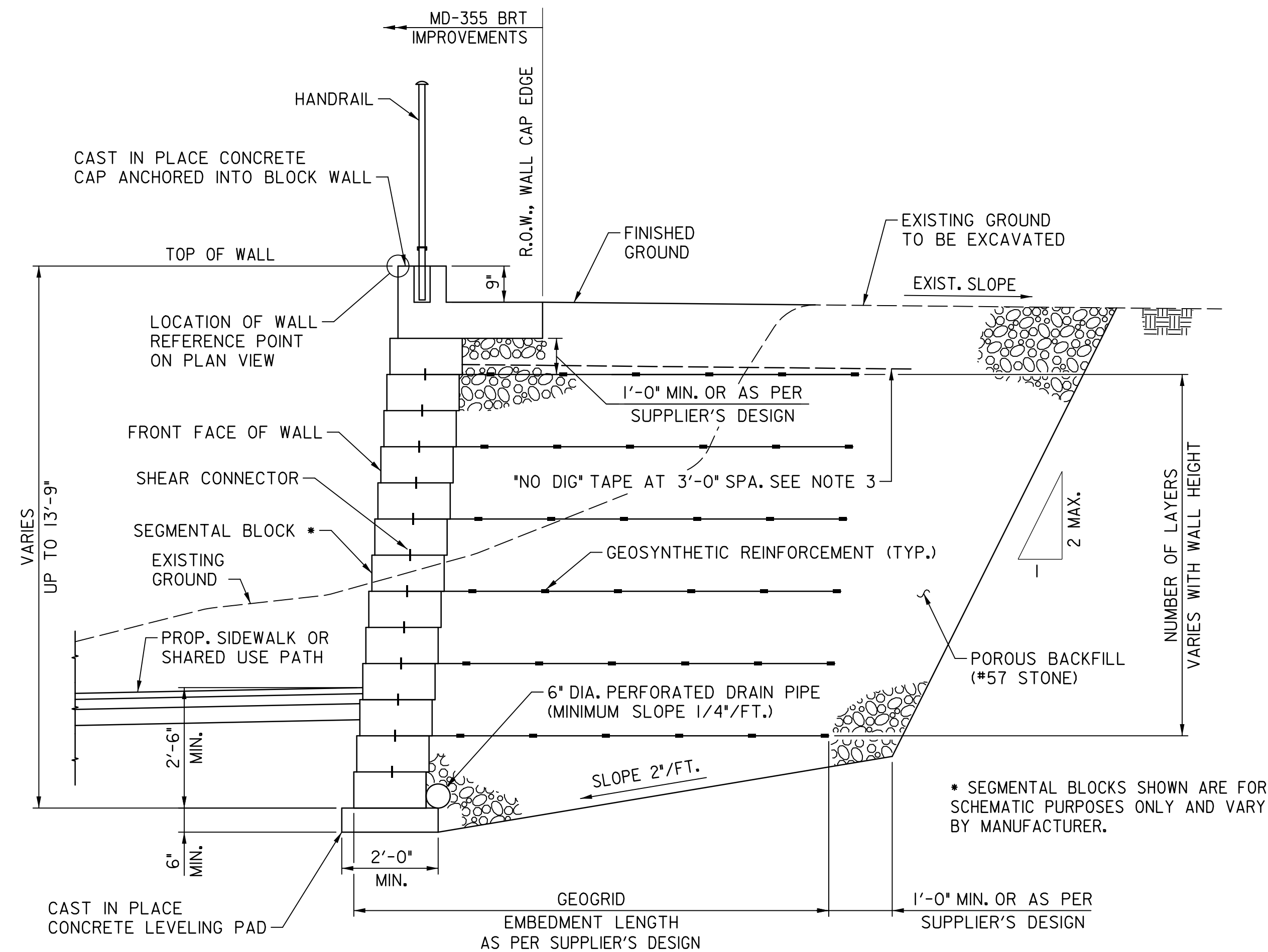
SCALE : AS SHOWN DATE : DECEMBER 2022

Project No. : 502005 SHEET 804 of 887

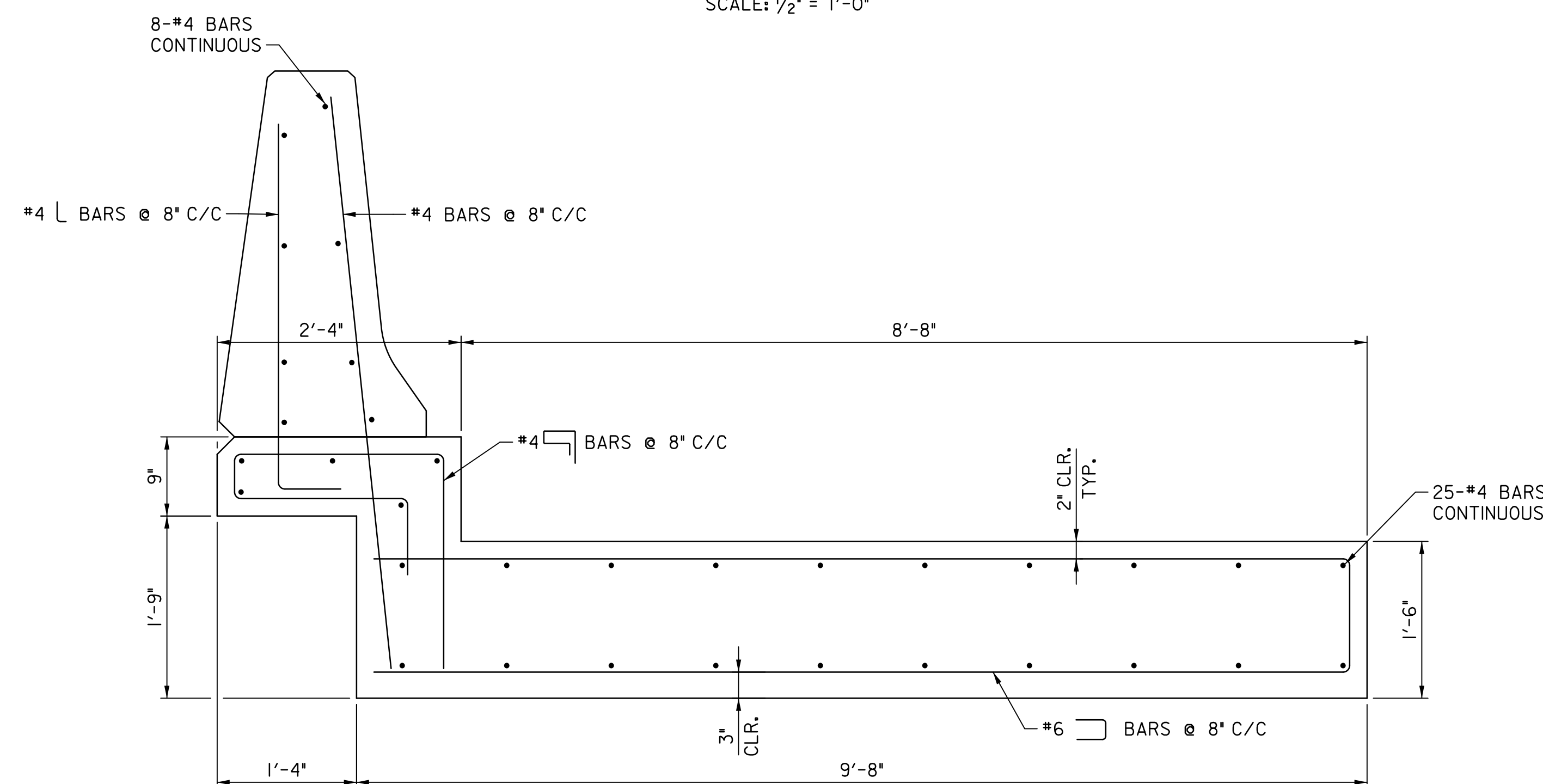
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TYPICAL SECTION (WITH PARAPET) - CUT
SCALE: 1/2" = 1'-0"



TYPICAL SECTION (WITH HANDRAIL) - CUT
SCALE: 1/2" = 1'-0"



CONCRETE MOMENT SLAB DETAILS
RETAINING WALL NOT SHOWN FOR CLARITY
SCALE: 1" = 1'-0"

NOTES:
I. PARAPET REBAR NOT SHOWN FOR CLARITY.

NOTES:

- ALL REINFORCING STEEL SHALL BE EPOXY COATED. THE COST OF REINFORCING STEEL IS INCIDENTAL TO PORTLAND CEMENT CONCRETE.
- NO DIG TAPE SHALL BE PLACED ABOVE THE GEOSYNTHETIC REINFORCEMENT AT 3'-0" ON CENTER. THE NO DIG TAPE SHALL EXTEND A MINIMUM OF 2'-0" BEYOND THE END OF THE GEOSYNTHETIC REINFORCEMENT.
- THE DESIGN OF THE TEMPORARY SHEETING, SHORING AND TEMPORARY SUPPORT SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE DONE BY A PROFESSIONAL ENGINEER REGISTERED IN STATE OF MARYLAND, AND SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE CONSTRUCTION. THE WORK WILL NOT BE MEASURED BUT THE COST WILL BE INCIDENTAL TO OTHER ITEMS SPECIFIED.

S-65

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

MD 355 BUS RAPID TRANSIT (BRT)

RETAINING WALL
TYPICAL SECTION (2 OF 2)

NO.	REVISION	DATE	BY

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

SCALE : AS SHOWN DATE : DECEMBER 2022
Project No. : 502005 SHEET 805 of 887



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: _____