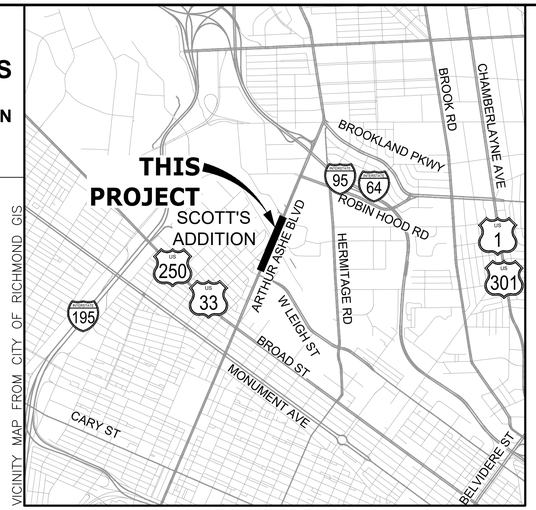
30% PLANS
NOT FOR CONSTRUCTION



VICINITY MAP

2,000' 0 2,000' 4,000'

SCALE: 1"=2,000'

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC WORKS
ENGINEERING & TECHNICAL SERVICES

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

PROJECT LIMITS: FROM NORFOLK STREET TO AVENUE OF CHAMPIONS

CITY PROJECT NUMBER: XXXXXX



FHWA XXX DATA XXXXX

FHWA REGION	STATE	FEDERAL PROJECT NUMBER	STATE PROJECT NUMBER
	VA.	N/A	N/A

NOTE: THESE PLANS ARE UNFINISHED AND UNAPPROVED AND SHALL NOT BE USED FOR CONSTRUCTION.

30% PLANS
03/25/2025

CITY OF RICHMOND

APPROVED FOR CONSTRUCTION	
DATE	PROJECT MANAGER
DATE	SURVEYS SUPERINTINDENT
DATE	CITY TRANSPORTATION ENGINEER
DATE	CAPITAL PROJECTS ADMINISTRATOR
DATE	CITY ENGINEER
DATE	DIRECTOR OF PUBLIC WORKS
DATE	MAINTENANCE ENGINEER

REVISIONS

NO.	DATE	COMMENTS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE CITY OF RICHMOND.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST VERSIONS OF VDOT'S 2020 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2011 WORK AREA PROTECTION MANUAL REVISION 2.1, THE LATEST VERSION OF THE MUTCD AND AS AMENDED BY THE CONTRACT PROVISIONS.

ALL PEDESTRIAN FACILITIES SHALL COMPLY WITH ADA AND PROWAG STANDARDS.

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA
ARTHUR ASHE BOULEVARD GS-5 URBAN PRINCIPAL ARTERIAL - 25 MPH POSTED SPEED ADT (2022): 23,866

OWNER:
CITY OF RICHMOND
DEPT. OF PUBLIC WORKS
900 E. BROAD ST., RICHMOND, VA, 23219
PROJECT MANAGER: YONGPING WANG
EMAIL: YONGPING.WANG@RVA.GOV
PHONE: (804) 646-2467

REVISIONS:

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.
7053 Celebration Park Avenue, Suite 300
Richmond, VA 23225 | TEL 804.200.6500 | www.timmons.com
JOB# 69863

03/25/2025

DRAWING NO.:

30% PLANS
NOT FOR CONSTRUCTION

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
R1.00	TITLE SHEET
R1.01	OVERALL INDEX OF SHEETS
R1.02	ROADWAY OVERALL PLAN
R2.00	GENERAL NOTES & DETAILS
R2.01	TYPICAL SECTIONS
R2.02	TYPICAL SECTIONS
R2.03	TYPICAL SECTIONS
R2.04	MAINTENANCE OF TRAFFIC PLAN
R2.05	MAINTENANCE OF TRAFFIC PLAN
R2.06	MOT PLAN – PHASE 1
R2.07	MOT PLAN – PHASE 2
R2.08	MOT PLAN – PHASE 3
R2.09	MOT PLAN – PHASE 4
R2.10	MOT PLAN – PHASE 5
R3.00	PLAN SHEET
R3.01	PROFILE SHEET
R4.00	PLAN SHEET
R4.01	PROFILE SHEET
R5.00	PLAN SHEET
R5.01	PROFILE SHEET
R6.00	CROSS SECTIONS
R6.01	CROSS SECTIONS
R6.02	CROSS SECTIONS
R6.03	CROSS SECTIONS
R6.04	CROSS SECTIONS
R6.05	CROSS SECTIONS
U1.00	OVERALL UTILITY PLAN
U2.00	WATERLINE PLAN & PROFILE
U3.00	WATERLINE PLAN & PROFILE
U3.01	WATERLINE PLAN & PROFILE

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
L1.00	ARCHITECTURAL OVERALL PLAN
L1.10	BRIDGE MATERIAL PLAN
L1.11	BRIDGE MATERIAL PLAN
L1.12	BRIDGE MATERIAL PLAN
L1.20	SITE SECTIONS
L1.21	SITE SECTIONS
L1.30	SITE STRUCTURES
L1.31	SITE STRUCTURES
L1.40	SITE SCHEDULE
L1.41	SITE DETAILS
L2.00	BRIDGE LAYOUT PLAN
L2.01	BRIDGE LAYOUT PLAN
L2.02	BRIDGE LAYOUT PLAN
L3.00	BRIDGE FURNISHINGS PLAN
L3.01	BRIDGE FURNISHINGS PLAN
L3.02	BRIDGE FURNISHINGS PLAN
L3.10	FURNISHING CUT SHEETS
L4.00	OVERALL PLANTING PLAN
L4.10	DETAIL PLANTING PLAN
L4.11	DETAIL PLANTING PLAN
L4.12	DETAIL PLANTING PLAN
L4.13	DETAIL PLANTING PLAN
L4.14	DETAIL PLANTING PLAN
L4.20	PLANTING DETAILS
L5.00	OVERALL LIGHTING PLAN
L5.10	DETAIL LIGHTING PLAN
L5.11	DETAIL LIGHTING PLAN
L5.12	DETAIL LIGHTING PLAN
L5.13	DETAIL LIGHTING PLAN
L5.14	DETAIL LIGHTING PLAN
L5.20	STREETSCAPE LIGHTING CUT SHEETS
L5.30	BRIDGE LIGHTING CUT SHEETS
L5.31	BRIDGE LIGHTING CUT SHEETS
L6.00	OVERALL IRRIGATION PLAN
L6.10	BRIDGE IRRIGATION PLAN
L6.11	BRIDGE IRRIGATION PLAN
L6.12	BRIDGE IRRIGATION PLAN

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
S1.00	GENERAL NOTES, PLAN AND ELEVATION
S2.00	ESTIMATED QUANTITIES AND INDEX OF SHEETS
S4.00	SEQUENCE OF CONSTRUCTION (SHEET 1 OF 3)
S4.01	SEQUENCE OF CONSTRUCTION (SHEET 2 OF 3)
S4.02	SEQUENCE OF CONSTRUCTION (SHEET 3 OF 3)
S6.00	ABUTMENT A STAGED DEMOLITION PLAN
S6.01	ABUTMENT A PLAN AND ELEVATION
S6.02	ABUTMENT A FOOTING PLAN AND DETAILS
S6.03	ABUTMENT B STAGED DEMOLITION PLAN
S6.04	ABUTMENT B PLAN AND ELEVATION
S6.05	ABUTMENT B FOOTING PLAN AND DETAILS
S6.06	ABUTMENT A SECTION AND DETAILS
S6.07	ABUTMENT B SECTION AND DETAILS
S7.00	PIER I PLAN AND ELEVATION
S9.00	FRAMING PLAN
S9.01	GIRDER ELEVATION
S9.02	GIRDER DETAILS
S9.03	BOLTED SPLICE DETAILS
S11.00	42" CPSR RAILING (CPSR-2)
S11.01	42" CPSR TERMINAL WALL (CPSRT-4)
S17.00	SOUTHWEST WALL ELEVATION
S17.01	SOUTHEAST WALL ELEVATION
S17.02	NORTHWEST WALL ELEVATION (SHEET 1 OF 2)
S17.03	NORTHWEST WALL ELEVATION (SHEET 2 OF 2)
S17.04	NORTHEAST WALL ELEVATION (SHEET 1 OF 2)
S17.05	NORTHEAST WALL ELEVATION (SHEET 2 OF 2)
S17.06	RETAINING WALL DETAILS (SHEET 1 OF 2)
S17.07	RETAINING WALL DETAILS (SHEET 2 OF 2)

SHEET TOTAL:	95

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... K. O'MEARA
DESIGNED BY: ..... A. SETTLEMYER

L:\20195983-AABB_Roadway\DWG\Sheet\CD\69863-203C-R1.01.dwg | Plotted on 3/24/2025 1:52 PM | by Anna Settlemyer

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

-LEGEND:-

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings:
- Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

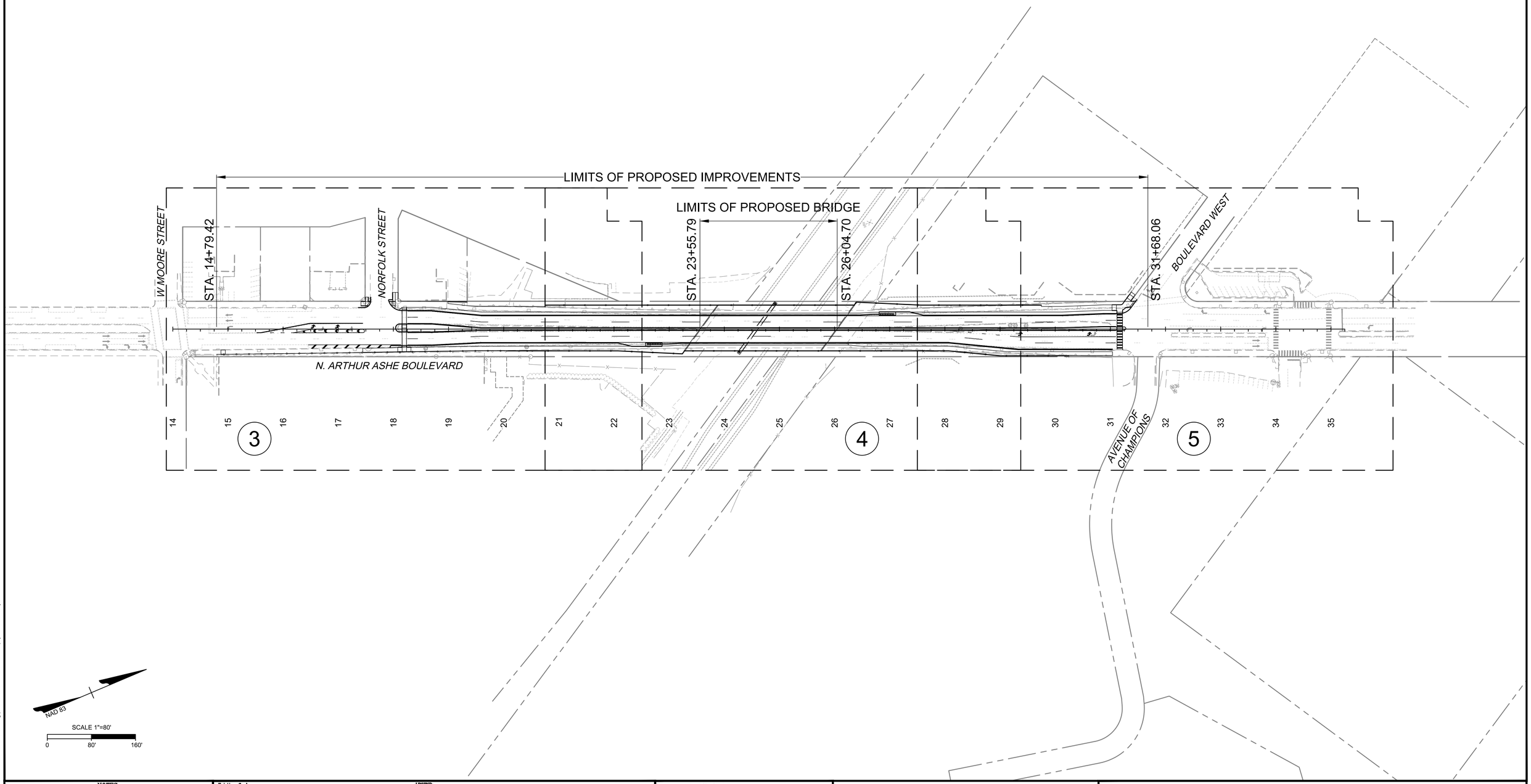
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

OVERALL INDEX OF SHEETS

DESIGN BY: ACS DRAWN BY: ACS CHECKED BY: RPO	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. N/A VERT. N/A	DATE 03/25/2025	SHEET R1.01	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... K. O'MEARA
DESIGNED BY: ..... A. SETTLEMYER



NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

--LEGEND:--

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

CITY OF RICHMOND ESTABLISHED 1742 — DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

ROADWAY OVERALL PLAN

DESIGN BY: ACS	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: ACS		HORIZ. DATUM: NAD83 VA-S	HORIZ. 1" = 25'	03/25/2025	R1.02	
CHECKED BY: KPO		VERT. DATUM: NAVD88	VERT. N/A			

L:\2026\69863-AABE_Roadway\DWG\Sheet\CD\69863-203C-R1.02.dwg | Plotted on 3/24/2025 1:52 PM | by Anna Settlemyer

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL WORK AND CONSTRUCTION OF ALL ITEMS WITHIN THE EXISTING CITY OF RICHMOND RIGHT-OF-WAY. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AN APPROVED WORK IN STREETS PERMIT (WISP).

2. THIS PROJECT TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF RICHMOND, THE LATEST STANDARDS AND SPECIFICATIONS OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT), AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE PAPER COPY OF THE PLAN ASSEMBLY.

3. PRIOR TO CONSTRUCTION OR EXCAVATION, THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY OF LOCATING ANY UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST WITHIN THE AREA OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF UTILITIES OF ANY UNMARKED UNDERGROUND UTILITIES IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT THE CONTRACTOR'S EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.

4. THE CONTRACTOR SHALL CALL "MISS UTILITY" 48 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY IF THE LOCATION OR ELEVATION OF KNOWN UTILITIES IS DIFFERENT FROM THAT SHOWN ON THE PLANS, IF THERE APPEARS TO BE A CONFLICT, AND/OR UPON DISCOVERY OF ANY UTILITY THAT IS NOT SHOWN ON PLAN.

   THE CONTRACTOR SHALL COORDINATE WITH CSXT TO HAVE CSXT'S FACILITIES MARKED WITHIN THE LIMITS OF CSXT RIGHT-OF-WAY, PRIOR TO PERFORMING WORK WITH THE POTENTIAL TO IMPACT BELOW-GRADE FACILITIES.

5. ALL UTILITY SERVICE INTERRUPTIONS SHALL BE KEPT AT AN ABSOLUTE MINIMUM. THE CONTRACTOR SHALL PROVIDE THE CITY WITH A DETAILED PLAN AND SCHEDULE FOR SERVICE INTERRUPTIONS A MINIMUM OF 72 HOURS IN ADVANCE. THE CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO SURROUNDING PROPERTIES DURING CONSTRUCTION. THE AFFECTED PROPERTY OWNERS SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF SERVICE INTERRUPTIONS.

6. EXISTING UTILITIES THAT ARE IN CONFLICT AND MAY NEED TO BE REMOVED OR RELOCATED WILL BE COORDINATED BY THE CITY. RELOCATIONS OF CITY FACILITIES WILL BE ADMINISTERED BY THE CITY DEPARTMENT OF PUBLIC UTILITIES (DPU). IN CASE OF EMERGENCIES OF UTILITY BREAKAGE/CONFLICT, CONTACT:
   - 6.1. GAS - 804-646-8300, 804-646-8309, 804-646-8310
   - 6.2. WATER - 804-646-8300, 804-646-8309, 804-646-8310
   - 6.3. SEWER - 804-646-8600, 804-646-8426
   - 6.4. POWER - 888-667-3000

7. ALL UTILITY CLEARANCES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE OBTAINED PRIOR TO CONSTRUCTION. EXCAVATION WITHIN 1.5' OF GAS OR ELECTRIC LINES SHALL BE PERFORMED BY HAND.

8. THE CONTRACTOR SHALL ADEQUATELY SUPPORT, AND BE RESPONSIBLE FOR, ALL UTILITY LINES EXPOSED AS A RESULT OF CONSTRUCTION ACTIVITY SHOWN ON THE PLANS.

9. ALL UTILITIES THAT ARE WITHIN THE CONSTRUCTION AREA SHALL BE RAISED OR LOWERED TO GRADE. THE CONTRACTOR SHALL ENSURE THAT ALL VALVES, DRIPS, PURGES, MANHOLES, OR OTHER BOXES ASSOCIATED WITH ALL UTILITIES IN THE CONSTRUCTION AREA ARE ADJUSTED PROPERLY TO THE NEW GRADE.

10. DURING EXCAVATION FOR INSTALLATION, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT NO UTILITIES OR MAIN LINES ARE DAMAGED DURING THE EXCAVATION PROCESS. ANY VEGETATION OR LANDSCAPING THAT IS TO BE PLANTED SHALL NOT BE PLACED DIRECTLY OVER ANY UTILITY MAIN.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL NECESSARY CONSTRUCTION PERMITS, AND FURNISH COPIES TO THE ENGINEER, PRIOR TO COMMENCING CONSTRUCTION ACTIVITY.

12. ALL WORK SHALL BE SUBJECT TO INSPECTION BY DESIGNATED CITY OFFICIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION TO THE CHIEF INSPECTOR AND THE CITY TRAFFIC ENGINEERING DIVISION 48 HOURS PRIOR TO THE START OF WORK.

13. VERTICAL DATUM IS BASED ON MEAN SEA LEVEL (NAVD 88). HORIZONTAL CONTROLS ARE BASED ON VIRGINIA STATE PLANE COORDINATE GRID, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83).

14. ANY DEVIATION FROM THE APPROVED PLANS AND/OR STANDARDS AND SPECIFICATIONS MUST BE APPROVED BY THE CITY TRAFFIC ENGINEERING DIVISION IN WRITING PRIOR TO START OF WORK. IF A CONFLICT IS FOUND TO EXIST, THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEERING DIVISION BEFORE ANY WORK IS STARTED.

15. IN ACCORDANCE WITH HANDICAP ACCESSIBILITY REQUIREMENTS, ALL APPLICABLE CODES AND REQUIREMENTS FOR ACCESSIBILITY FOR DISABLED PERSONS SHALL BE STRICTLY COMPLIED WITH.

16. DEMOLITION OF EXISTING ASPHALT PAVEMENT TO BE IN ACCORDANCE WITH CITY OF RICHMOND SPECIFICATIONS.

17. DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE CITY OF RICHMOND OR THE INSPECTOR.

18. THE CONTRACTOR SHALL PROVIDE ACCESS THROUGH THE SITE AS DIRECTED BY THE ENGINEER AT ALL TIMES DURING CONSTRUCTION AND SHALL ENSURE THE SAFETY OF PEDESTRIANS/BICYCLISTS FROM VEHICULAR TRAFFIC AND CONSTRUCTION HAZARDS.

19. THE CONTRACTOR SHALL NOTIFY THE SURVEYS DIVISION OF THE CITY OF RICHMOND'S DEPARTMENT OF PUBLIC WORKS BY EMAIL RIGHTOFWAY@RVA.GOV AND BY PHONE (804)-646-0436 OR (804)-646-5404 AT LEAST 48 HOURS PRIOR TO ANY ACTIVITIES WHICH MAY DISTURB THE LOCATION OR THE STABILITY OF ANY RIGHT-OF-WAY CORNERSTONE OR MARKER. THE CONTRACTOR WILL COORDINATE HIS WORK WITH THE SURVEYS DIVISION REPRESENTATIVE REGARDING THE PLACEMENT OR REPLACEMENT OF RIGHT-OF-WAY CORNERSTONES OR MARKERS IN ANY AREAS BEING AFFECTED BY CONSTRUCTION. ALL PLACEMENT OR REPLACEMENT OF RIGHT-OF-WAY CORNERSTONES OR MARKERS WILL BE PERFORMED BY SURVEYS DIVISION. THE CONTRACTOR WILL BE RESPONSIBLE FOR REIMBURSING THE CITY FOR ANY COSTS ASSOCIATED WITH REPLACING ANY R/W CORNERSTONES OR MARKERS THAT ARE DISTURBED WITHOUT GIVING PROPER NOTIFICATION.

20. ALL STREET EXCAVATION AND/OR RESTORATION SHALL BE DONE IN ACCORDANCE WITH THE CITY OF RICHMOND'S RIGHT OF WAY EXCAVATION AND RESTORATION MANUAL.

21. IF THE CONTRACTOR WISHES TO PERFORM WORK DURING EVENING HOURS AND/OR WEEKENDS, HE MUST FIRST RECEIVE APPROVAL FROM THE CITY PROJECT MANAGER.

22. CLEARING AND GRUBBING SHALL BE CONFINED TO THOSE AREAS NEEDED FOR CONSTRUCTION. NO TREES OR SHRUBS IN UN-GRADED AREAS SHALL BE CUT WITHOUT THE PERMISSION OF THE CITY PROJECT MANAGER.

23. CONSTRUCTION STAKING SHALL BE DONE ONLY BY A PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE COMMONWEALTH OF VIRGINIA. THE ENGINEER/SURVEYOR EMPLOYED BY THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION OF A DETAILED STAKING PLAN AND HAVING THAT PLAN REVIEWED AND APPROVED PRIOR TO START OF WORK BY THE ENGINEER.

24. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADEQUATE AND POSITIVE SITE DRAINAGE THROUGHOUT CONSTRUCTION. ANY SUBGRADE SOILS WHICH HAVE BEEN WEAKENED DUE TO INADEQUATE DRAINAGE, SATURATION AND/OR DISTURBANCE BY CONSTRUCTION SHALL BE UNDER-CUT AND REPLACED WITH COMPACTED STRUCTURAL FILL AT NO ADDITIONAL COST TO THE CITY.

25. WHENEVER THE CONTRACTOR'S OPERATIONS AFFECT VEHICULAR OR PEDESTRIAN TRAFFIC, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ANY AND ALL SAFETY CONTROL DEVICES IN ACCORDANCE WITH THE VDOT WORK AREA PROTECTION MANUAL AND AS DEEMED NECESSARY BY THE CITY OF RICHMOND AND THE ENGINEER.

26. ALL SIGNS, MAILBOXES, AND MARKINGS IN CONFLICT WITH ROADWAY CONSTRUCTION SHALL BE REMOVED AND RESET. ANY SIGNS AND OR MARKINGS NOT RESET SHALL REMAIN PROPERTY OF THE CITY OF RICHMOND.

27. NO LANDSCAPING OF ANY TYPE SHALL BE PLACED WITHIN A THREE FOOT RADIUS OF ANY FIRE HYDRANT. LANDSCAPING IN THE AREA OF FIRE HYDRANTS SHALL BE OF THE TYPE THAT WILL NOT ENCROACH ON THE REQUIRED THREE FOOT CLEAR RADIUS ON MATURITY OF GROWTH.

28. ALL BORROW EXCAVATION AND EMBANKMENT MATERIALS USED TO CONSTRUCT EMBANKMENTS FOR THIS PROJECT SHALL MEET A MINIMUM CBR VALUE OF X AND SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH SECTION 303.04(h) OF THE 2020 ROAD AND BRIDGE SPECIFICATIONS OR AS APPROVED BY THE CITY PROJECT MANAGER.

29. IF FIELD CONDITIONS ARE FOUND TO VARY FROM SURVEY DATA OR FROM WHAT IS SHOWN ON THE PLANS, THE CONTRACTOR IS TO NOTIFY THE THE CITY OF RICHMOND TRAFFIC ENGINEERING DIVISION AND THE ENGINEER OF RECORD IMMEDIATELY, PRIOR TO PROCEEDING WITH CONSTRUCTION.

30. THE INTENT OF THE PROPOSED ROADWAY TYPICAL SECTIONS, CROSS SECTIONS AND PROFILES IS TO REPRESENT A MILLING AND OVERLAY OPERATION IN THE AREAS DEPICTED AS SUCH ON THE PLAN SHEETS. CONTRACTOR SHALL USE STANDARD MILLING AND OVERLAY PROCEDURE TO RESURFACE THE ROADWAY AND MATCH EXISTING GRADES.

31. ALL REFERENCES TO STD. OR STANDARD ITEMS IN PLAN ASSEMBLY REFER TO VDOT STANDARD ITEMS FOUND IN VDOT ROAD AND BRIDGE STANDARDS (LATEST VERSION) AND CONSTRUCTED PER THE VDOT ROAD AND BRIDGE SPECIFICATIONS (LATEST VERSION).

32. LIMITS OF SIDEWALK AND CURB CONSTRUCTION ARE MINIMUM LIMITS. CONTRACTOR SHALL TIE TO NEAREST JOINT OR CREATE NO LESS THAN A 4' GAP BETWEEN JOINTS ON FINAL CONCRETE SIDEWALK OR CURB.

33. THE CONTRACTOR SHALL SET UTILITIES TO GRADE AS NEEDED. THE CONTRACTOR SHALL ROTATE MANHOLE FRAMES AND COVERS TO AVOID CONFLICTS WITH PROPOSED CURB OR OTHER SIDE FEATURES.

34. CURB RAMPS AND THEIR EXTENTS AS SHOWN IN THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL ENSURE THAT ALL CURBS RAMPS ARE COMPLIANT WITH THE TECHNICAL REQUIREMENTS SET FORTH IN THE PROWAG GUIDELINES. RAMPS MUST BE 6" THICK CONRETE.

SURVEY NOTES

THE CONTRACTOR SHALL NOTIFY THE SURVEYS DIVISION RICHMOND'S DEPARTMENT OF PUBLIC WORKS BY EMAIL RIGHTOFWAY@RVA.GOV AND BY PHONE (804) 646-0436 OR (804) 646-7612 AT LEAST 48 HOURS PRIOR TO ANY ACTIVITIES WHICH MAY DISTURB THE LOCATION OR THE STABILITY OF ANY RIGHT-OF-WAY CORNERSTONE OR MARKER. THE CONTRACTOR WILL COORDINATE THEIR WORK WITH THE SURVEYS DIVISION REPRESENTATIVE REGARDING THE PLACEMENT OR REPLACEMENT OF RIGHT-OF-WAY CORNERSTONES OR MARKERS IN ANY AREAS BEING AFFECTED BY CONSTRUCTION. ALL PLACEMENT OR REPLACEMENT OF RIGHT-OF-WAY CORNERSTONES OR MARKERS WILL BE PERFORMED BY SURVEYS DIVISION. THE CONTRACTOR WILL BE RESPONSIBLE FOR REIMBURSING THE CITY FOR ANY COSTS ASSOCIATED WITH REPLACING ANY RIGHT-OF-WAY CORNERSTONES OR MARKERS THAT ARE DISTURBED WITHOUT GIVING PROPER NOTIFICATION.

SURVEY IS A COMBINATION OF FIELD-RUN TOPOGRAPHIC SURVEY, GIS RECORDS, AS-BUILTS, AND SIMILAR. THE CONTRACTOR SHALL FIELD-VERIFY EXISTING CONDITIONS, INCLUDING UTILITIES, PRIOR TO CONSTRUCTION AND ADVISE THE ENGINEER IF CONFLICTS EXIST.

SEWER

- EXIST. SANITARY SEWER
- PROP. SANITARY SEWER
- EXIST. SANITARY MANHOLE
- PROP. SANITARY MANHOLE
- EXIST. CLEAN OUT
- PROP. CLEAN OUT

WATER

- EXIST. WATER LINE
- PROPOSED WATER LINE
- EXIST. WATER VALVE
- EXIST. WATER METER
- EXIST. FIRE HYDRANT
- EXIST. WATER LINE PLUG
- EXIST. SPRINKLER BOX

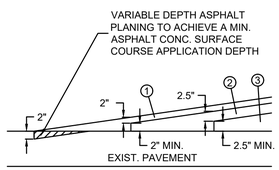
MISCELLANEOUS UTILITIES

- EXIST. LIGHT POLE
- EXIST. UTILITY POLE
- EXIST. GUY WIRE
- EXIST. OVERHEAD ELECTRIC
- EXIST. UNDERGROUND ELECTRIC LINE
- EXIST. GAS VALVE
- EXIST. GAS METER
- EXIST. GAS LINE
- EXIST. TELEPHONE PEDESTAL
- EXIST. UNDERGROUND TELEPHONE LINE
- EXIST. COMMUNICATION DUCT BANK
- EXIST. OVERHEAD TELEPHONE LINE
- EXIST. UNDERGROUND CABLE TV LINE
- EXIST. OVERHEAD CABLE TV LINE
- EXIST. FIBER OPTIC LINE
- EXIST. ELECTRICAL TRANSFORMER
- EXIST. ELECTRIC METER
- EXIST. CABLE TV PEDESTAL
- EXIST. FIBER OPTIC BOX

STORM

- EXIST. STORM SEWER
- PROP. STORM SEWER
- EXIST. DROP INLET & STRUCTURE NO.
- PROP. DROP INLET & STRUCTURE NO.
- EXIST. STORM SEWER MANHOLE
- PROP. STORM SEWER MANHOLE
- BENCH MARK #1 — BENCH MARK
- B-1 — APPROX. BORING LOCATION
- EXIST. PAVED DITCH
- PROP. CLEARING LIMITS
- EXIST. TREE LINE
- EXIST. SHRUB
- EXIST. TREE
- EXIST. CONTOUR
- PROP. CONTOUR
- EXIST. C/L SWALE
- EXIST. SIGN
- PROP. SIGN
- WETLANDS
- WATERS OF THE U.S.

30% PLANS
NOT FOR CONSTRUCTION

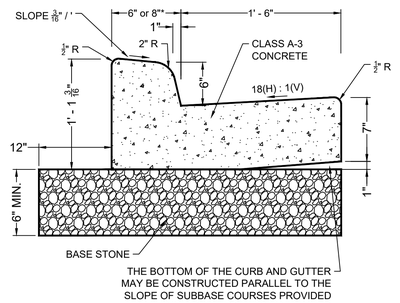


PAVEMENT BUILD-UP WITH OVERLAY

1. ASPHALT CONC. OVERLAY TY. SM-12.5 (2" MIN. DEPTH REQ'D.)
2. VAR. DEPTH IM-19.0 ASPHALT LEVELING COURSE (DEPTHS UP TO 3")
3. VAR. DEPTH BM-25.0 ASPHALT LEVELING COURSE (REMAINDER IF NECESSARY)
4. ASPHALT TACK COAT

CITY STANDARD MONOLITHIC CONCRETE CURB & GUTTER

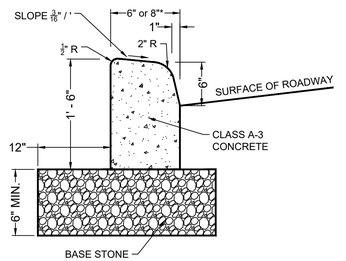
NOT TO SCALE



NOTES:
1.* 6" CURB REQ'D. FOR SINGLE FAMILY RESIDENTIAL
2.* 8" CURB REQ'D. FOR COMMERCIAL, CENTERAL BUSINESS DISTRICT, FAN, HIGH DENSITY AND MULTI-FAMILY
3. BASE STONE SHALL BE 6" MIN. COMPACTED THICKNESS 21A OR 21B

CITY STANDARD CONCRETE CURB

NOT TO SCALE



NOTES:
1.* 6" CURB REQ'D. FOR SINGLE FAMILY RESIDENTIAL
2.* 8" CURB REQ'D. FOR COMMERCIAL, CENTERAL BUSINESS DISTRICT, FAN, HIGH DENSITY AND MULTI-FAMILY
3. BASE STONE SHALL BE 6" MIN. COMPACTED THICKNESS 21A OR 21B

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... K. O'MEARA
DESIGNED BY: ..... A. SETTLEMYER

L:\2026\26863-AABB_Roadway\DWGS\Sheet\CD\26863-203C-R2.00.dwg | Plotted on 3/24/2025 1:53 PM | by Anna Settlemyer

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

--LEGEND:--

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

CITY OF RICHMOND ESTABLISHED 1742 — DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS
(127-1853) BRIDGE REPLACEMENT

GENERAL NOTES & DETAILS

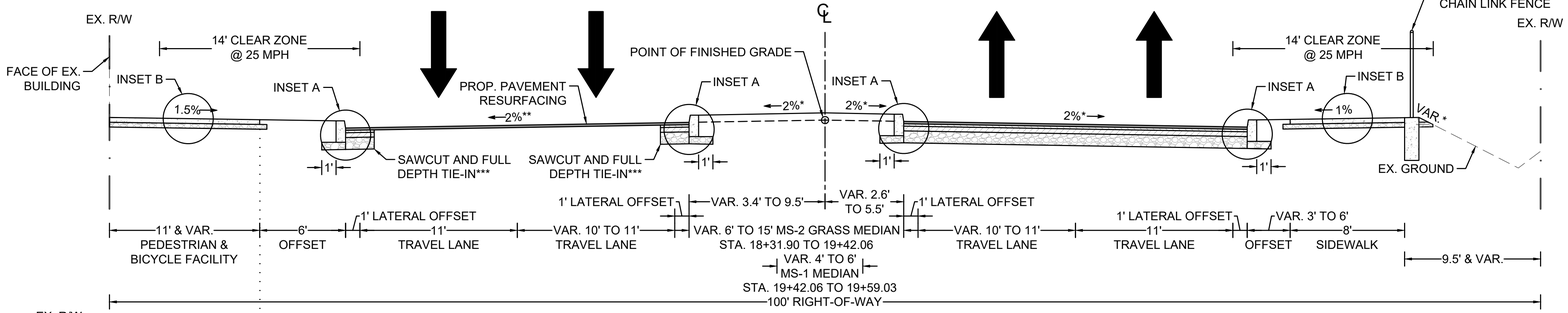
DESIGN BY: ACS DRAWN BY: ACS CHECKED BY: KPO	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. N/A VERT. N/A	DATE 03/25/2025	SHEET R2.00	DRAWING NO.

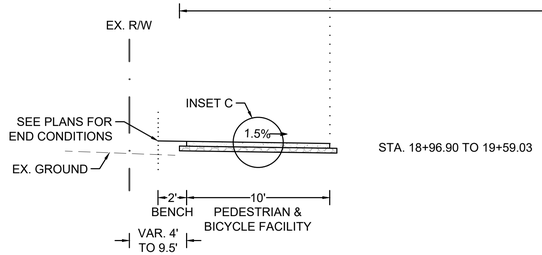
* SEE CROSS SECTIONS FOR SLOPES.
** CONTRACTOR SHALL MILL, OVERLAY, AND/OR BUILD-UP PAVEMENT WHERE NECESSARY TO ACHIEVE CROSS SLOPES AND MINIMUM 1.5" OVERLAY / BUILD-UP AS SHOWN ON THE CROSS SECTIONS.
*** 2' SAW CUT IN ACCORDANCE WITH VDOT WP-2. SEE CROSS SECTIONS AND PLAN SHEETS FOR LOCATIONS OF FULL-DEPTH PAVEMENT AND MILL & OVERLAY.
**** SEE STRUCTURAL AND LANDSCAPE ARCHITECTURE PLANS FOR DETAILS.

30% PLANS
NOT FOR CONSTRUCTION

N ARTHUR ASHE BOULEVARD

25 MPH URBAN PRINCIPAL ARTERIAL (GS-5)
NOT TO SCALE
AABB STA. 18+31.90 TO 19+59.03

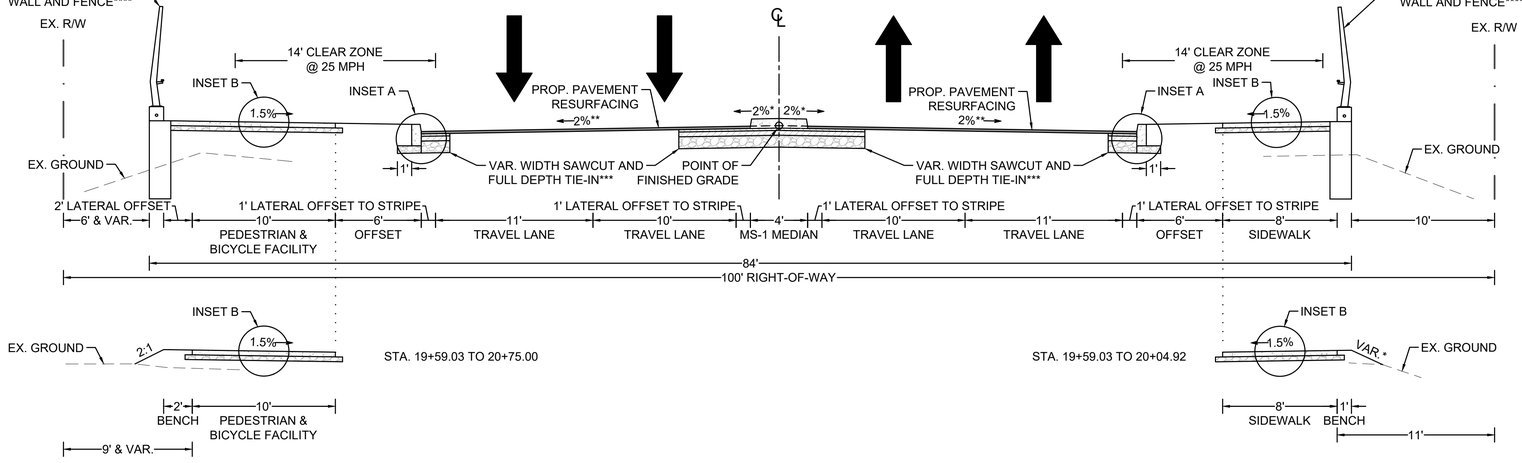




STA. 18+96.90 TO 19+59.03

N ARTHUR ASHE BOULEVARD

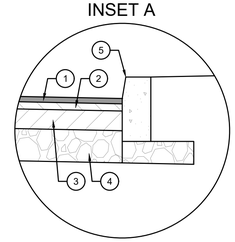
25 MPH URBAN PRINCIPAL ARTERIAL (GS-5)
NOT TO SCALE
AABB STA. 19+59.03 TO 21+75.00



STA. 19+59.03 TO 20+75.00

STA. 19+59.03 TO 20+04.92

INSET A

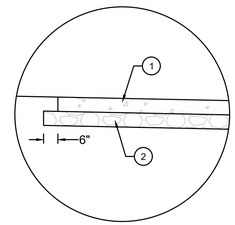


NOT TO SCALE

1. X" ASPHALT CONCRETE SURFACE COURSE (VDOT SM-12.5D)
2. X" ASPHALT CONCRETE INTERMEDIATE COURSE (IM-19.0D)
3. X" ASPHALT CONCRETE BASE COURSE (VDOT BM-25.0A)
4. X" AGGREGATE BASE MATERIAL (TYPE 1 NO. 21B)
5. CITY CURB (8" DEPTH) (SEE SHEET R2.00)

NOTE: AREAS OF PAVEMENT BUILDUP ARE TO BE IN ACCORDANCE WITH THE OVERLAY DETAIL ON SHEET R2.00.

INSET B



NOT TO SCALE

1. 4" CLASS A3 CONCRETE SIDEWALK OR BICYCLE & PEDESTRIAN FACILITY
2. 4" AGGREGATE BASE MATERIAL (TYPE 1 NO. 21B)

NOTE: PAVEMENT DEPTHS TO BE CONFIRMED AT A LATER SUBMISSION UPON RECEIPT OF GEOTECHNICAL REPORT.

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: K. O'MEARA
DESIGNED BY: A. SETTLEMYER

L:\2030\99863-AABB_Roadway\DWG\Sheet\CD\99863-203C-R2.01x.dwg | Plotted on 3/24/2025 1:53 PM | by Anna Settlemyer

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

-LEGEND:-
Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

CITY OF RICHMOND ESTABLISHED 1742 | DEPARTMENT OF PUBLIC WORKS
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT
TYPICAL SECTIONS

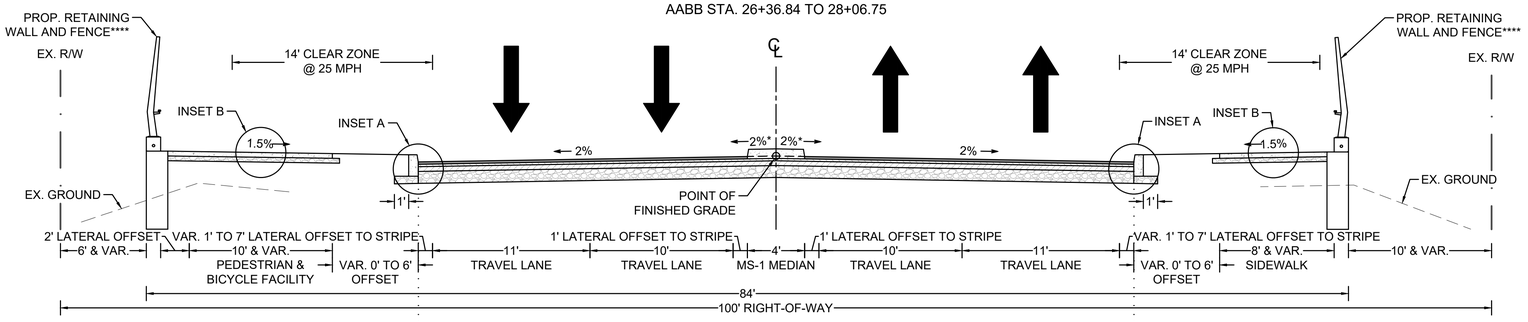
DESIGN BY: ACS	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: ACS		HORZ. DATUM: NAD83 VA-S	HORIZ. N.T.S.	03/25/2025	R2.01	
CHECKED BY: KPO		VERT. DATUM: NAVD88	VERT. N/A			

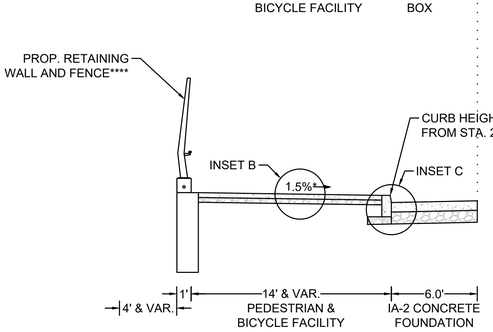
* SEE CROSS SECTIONS FOR SLOPES.
** CONTRACTOR SHALL MILL, OVERLAY, AND/OR BUILD-UP PAVEMENT WHERE NECESSARY TO ACHIEVE CROSS SLOPES AND MINIMUM 1.5" OVERLAY / BUILD-UP AS SHOWN ON THE CROSS SECTIONS.
*** 2' SAW CUT IN ACCORDANCE WITH VDOT WP-2. SEE CROSS SECTIONS AND PLAN SHEETS FOR LOCATIONS OF FULL-DEPTH PAVEMENT AND MILL & OVERLAY.
**** SEE STRUCTURAL AND LANDSCAPE ARCHITECTURE PLANS FOR DETAILS.

30% PLANS
NOT FOR CONSTRUCTION

N ARTHUR ASHE BOULEVARD

25 MPH URBAN PRINCIPAL ARTERIAL (GS-5)
NOT TO SCALE
AABB STA. 21+75.00 TO 23+26.57
AABB STA. 26+36.84 TO 28+06.75

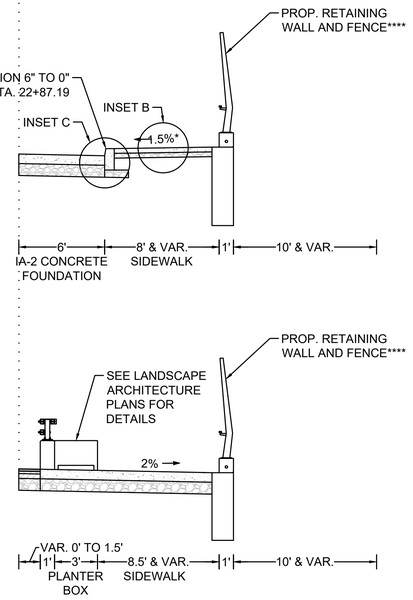




STA. 26+36.84 TO 26+80.72

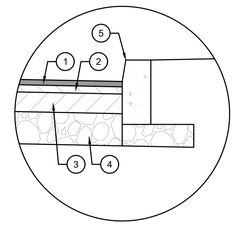
STA. 26+80.72 TO 27+10.72

STA. 22+57.19 TO 22+87.19



STA. 22+87.19 TO 23+26.57

INSET A

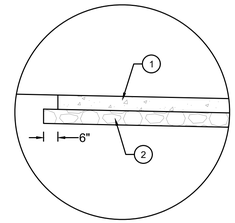


NOT TO SCALE

1. X" ASPHALT CONCRETE SURFACE COURSE (VDOT SM-12.5D)
2. X" ASPHALT CONCRETE INTERMEDIATE COURSE (IM-19.0D)
3. X" ASPHALT CONCRETE BASE COURSE (VDOT BM-25.0A)
4. X" AGGREGATE BASE MATERIAL (TYPE 1 NO. 21B)
5. CITY CURB (8" DEPTH) (SEE SHEET R2.00)

NOTE: AREAS OF PAVEMENT BUILDUP ARE TO BE IN ACCORDANCE WITH THE OVERLAY DETAIL ON SHEET R2.00.

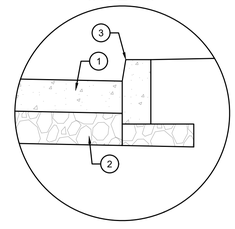
INSET B



NOT TO SCALE

1. 4" CLASS A3 CONCRETE SIDEWALK OR BICYCLE & PEDESTRIAN FACILITY
2. 4" AGGREGATE BASE MATERIAL (TYPE 1 NO. 21B)

INSET C



NOT TO SCALE

1. X" CLASS A3 CONCRETE (VDOT SM-12.5D)
2. X" AGGREGATE BASE MATERIAL (TYPE 1 NO. 21B)
3. CITY CURB (8" DEPTH, VAR. HEIGHT) (SEE SHEET R2.00)

NOTE: REFER TO STRUCTURAL SHEET S6.00 FOR BRIDGE TYPICAL SECTION. EDGE OF SLAB OUTER LIMITS FROM STATION 23+26.57 TO 26+36.84.

NOTE: PAVEMENT DEPTHS TO BE CONFIRMED AT A LATER SUBMISSION UPON RECEIPT OF GEOTECHNICAL REPORT.

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... K. O'MEARA
DESIGNED BY: ..... A. SETTLEMYER

L:\2020\69863-AABB_Roadway\DWG\Sheet\CD\69863-203C-R2.01x.dwg | Plotted on 3/24/2025 1:53 PM | by Anna Settlemyer

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

-LEGEND:-

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT
TYPICAL SECTIONS

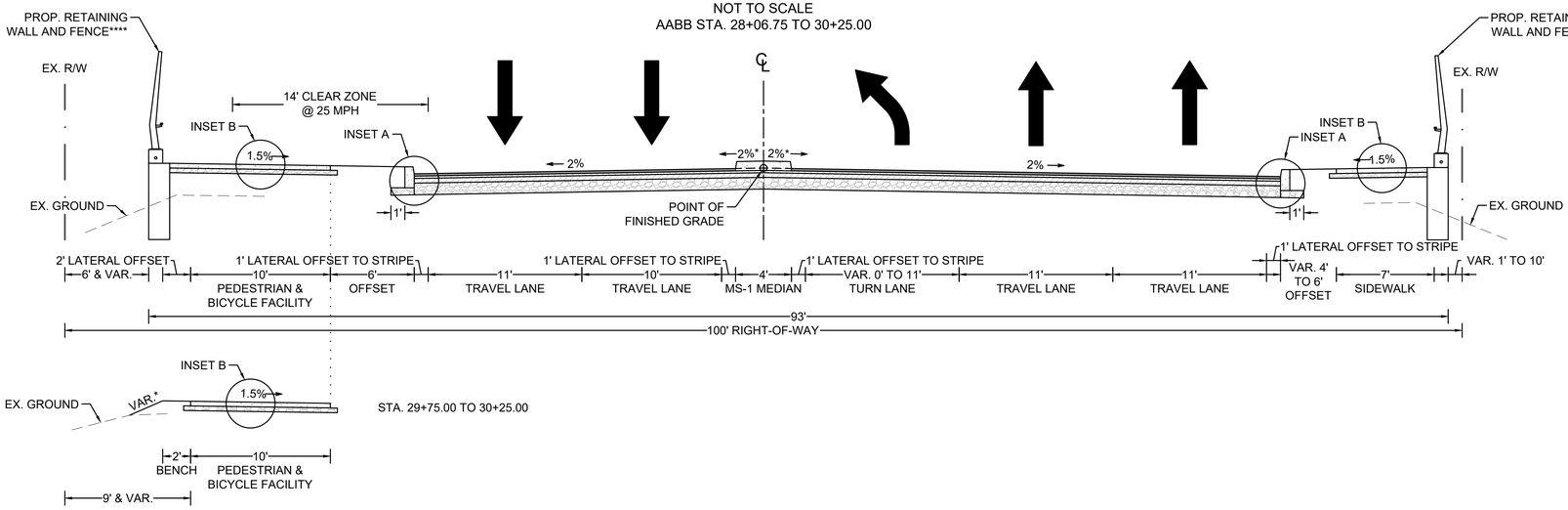
DESIGN BY: ACS	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: ACS		HORIZ. DATUM: NAD83 VA-S	HORIZ. N.T.S.	03/25/2025	R2.02	
CHECKED BY: KPO		VERT. DATUM: NAVD88	VERT. N/A			

* SEE CROSS SECTIONS FOR SLOPES.
** CONTRACTOR SHALL MILL, OVERLAY, AND/OR BUILD-UP PAVEMENT WHERE NECESSARY TO ACHIEVE CROSS SLOPES AND MINIMUM 1.5" OVERLAY / BUILD-UP AS SHOWN ON THE CROSS SECTIONS.
*** 2' SAW CUT IN ACCORDANCE WITH VDOT WP-2. SEE CROSS SECTIONS AND PLAN SHEETS FOR LOCATIONS OF FULL-DEPTH PAVEMENT AND MILL & OVERLAY.
**** SEE STRUCTURAL AND LANDSCAPE ARCHITECTURE PLANS FOR DETAILS.

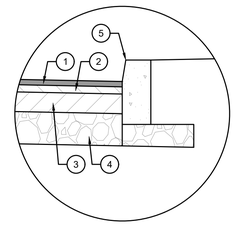
30% PLANS
NOT FOR CONSTRUCTION

N ARTHUR ASHE BOULEVARD

25 MPH URBAN PRINCIPAL ARTERIAL (GS-5)
NOT TO SCALE
AABB STA. 28+06.75 TO 30+25.00



INSET A

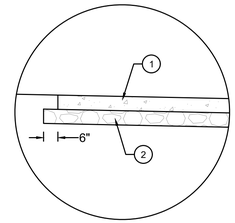


NOT TO SCALE

1. X" ASPHALT CONCRETE SURFACE COURSE (VDOT SM-12.5D)
2. X" ASPHALT CONCRETE INTERMEDIATE COURSE (IM-19.0D)
3. X" ASPHALT CONCRETE BASE COURSE (VDOT BM-25.0A)
4. X" AGGREGATE BASE MATERIAL (TYPE 1 NO. 21B)
5. CITY CURB (8" DEPTH) (SEE SHEET R2.00)

NOTE: AREAS OF PAVEMENT BUILDUP ARE TO BE IN ACCORDANCE WITH THE OVERLAY DETAIL ON SHEET R2.00.

INSET B

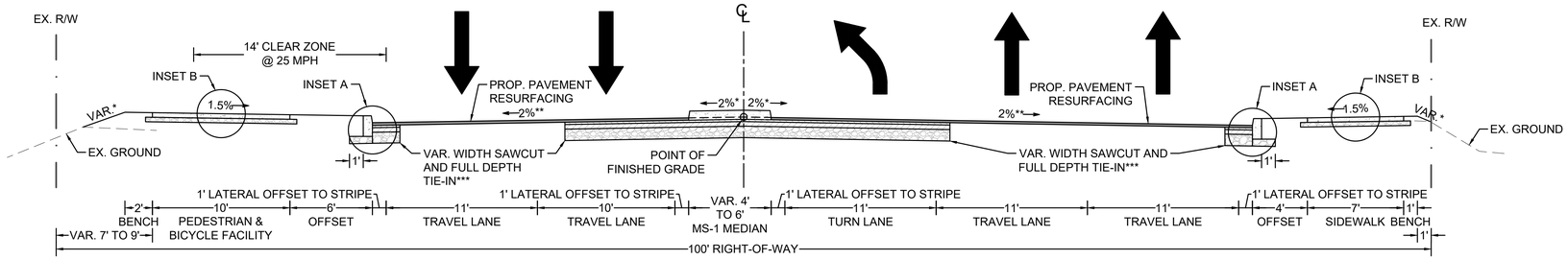


NOT TO SCALE

1. 4" CLASS A3 CONCRETE SIDEWALK OR BICYCLE & PEDESTRIAN FACILITY
2. 4" AGGREGATE BASE MATERIAL (TYPE 1 NO. 21B)

N ARTHUR ASHE BOULEVARD

25 MPH URBAN PRINCIPAL ARTERIAL (GS-5)
NOT TO SCALE
AABB STA. 30+25.00 TO 30+93.80



NOTE: PAVEMENT DEPTHS TO BE CONFIRMED AT A LATER SUBMISSION UPON RECEIPT OF GEOTECHNICAL REPORT.

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... K. O'MEARA
DESIGNED BY: ..... A. SETTLEMYER

L:\2030\99863-AABB_Roadway\DWG\Sheet\CD\99863-203C-R2.01x.dwg | Plotted on 3/24/2025 1:53 PM | by Anna Settlemyer

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

-LEGEND:-

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

CITY OF RICHMOND ESTABLISHED 1742 | DEPARTMENT OF PUBLIC WORKS
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT
TYPICAL SECTIONS

DESIGN BY: ACS	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: ACS		HORIZ. DATUM: NAD83 VA-S	HORIZ. N.T.S.	03/25/2025	R2.03	
CHECKED BY: KPO		VERT. DATUM: NAVD88	VERT. N/A			

30% PLANS
NOT FOR CONSTRUCTION

GENERAL:

1. ALTHOUGH THIS IS NOT A VDOT PROJECT, FOR PURPOSES OF DEVELOPING THE TRANSPORTATION MANAGEMENT PLAN, THE CONTRACTOR IS TO USE THE STANDARDS AND GUIDANCE OUTLINED IN THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION (NOVEMBER 1, 2020 REVISION 2.1).

2. THIS PROJECT IS CLASSIFIED AS TYPE B, CATEGORY IV UNDER THE VDOT CLASSIFICATION SYSTEM.

3. THE TOTAL PROJECT LENGTH IS APPROXIMATELY 1,400 FEET. THE WIDTH OF THE WORK ZONE IS APPROXIMATELY 50 FEET, BUT VARIABLE DEPENDING ON PHASE OF CONSTRUCTION.

4. THE PURPOSE OF THIS PROJECT IS TO REPLACE THE ARTHUR ASHE BOULEVARD BRIDGE ACROSS CSXT AND VPRA RAILROADS AND TO PROVIDE PEDESTRIAN FACILITIES FROM NORFOLK STREET IN THE SCOTT'S ADDITION NEIGHBORHOOD TO AVENUE OF CHAMPIONS NEAR CARMAX PARK CURRENTLY UNDER CONSTRUCTION.

5. TRAFFIC ALONG ARTHUR ASHE BOULEVARD AND ITS SURROUNDING SIDE STREETS CONSISTS OF LOCAL TRAFFIC FROM RESIDENTS AND BUSINESSES. NORTH OF THIS PROJECT IS AN ACCESS POINT TO I-95. TYPES OF TRAVELERS PRIMARILY INCLUDES LOCAL RESIDENTS WITH A SMALL PERCENTAGE OF TRUCKERS AND COMMUTERS.

6. THE EXISTING SPEED LIMIT ALONG THIS SEGMENT OF ARTHUR ASHE BOULEVARD IS 25 MPH, WHICH IS EXPECTED TO BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.

7. A WORK IN STREETS PERMIT (WISP) SHALL BE OBTAINED FROM THE CITY OF RICHMOND PRIOR TO ANY CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY.

PUBLIC COMMUNICATION PLAN:

1. THE CONTRACTOR SHALL ENSURE THAT LOCAL NEWSPAPERS AND RADIO STATIONS ARE INFORMED 72 HOURS IN ADVANCE OF ANY LANE CLOSURES.

2. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER AND THE CITY ENGINEER OF SCHEDULED WORK PLANS AND TRAFFIC DELAYS. THIS SHALL OCCUR BY DIRECT CONTACT AND/OR THROUGH THE ENGINEER AS APPROPRIATE (PHONE CALL).

3. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PROVIDED IN ADVANCE OF EACH PHASE OF CONSTRUCTION TO NOTIFY THE TRAVELING PUBLIC OF TRAFFIC CHANGES.

TEMPORARY TRAFFIC CONTROL (TTC) / MAINTENANCE OF TRAFFIC (MOT):

1. LANE CLOSURES, CROSSOVERS, AND FLAGGING OPERATIONS ARE ANTICIPATED FOR THIS PROJECT AND SHALL BE PROVIDED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION (NOVEMBER 1, 2020 REVISION 2.1). THE FOLLOWING TEMPORARY TRAFFIC MEASURES SHALL BE USED DURING CONSTRUCTION:

   1.1. TTC-16.2: OUTSIDE LANE CLOSURE OPERATION ON A FOUR-LANE ROADWAY
   1.2. TTC-17.2: INSIDE LANE CLOSURE OPERATION ON A FOUR-LANE ROADWAY
   1.3. TTC-23.2: LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS
   1.4. TTC-26.2: LANE CLOSURE OPERATION - NEAR SIDE OF AN INTERSECTION
   1.5. TTC-27.2: LANE CLOSURE OPERATION - FAR SIDE OF AN INTERSECTION
   1.6. TTC-29.2: TURN LANE CLOSURE OPERATION
   1.7. TTC-36.2: CROSSWALK CLOSURE AND PEDESTRIAN DETOUR OPERATION
   1.8. TTC-44.2: MEDIAN CROSS-OVER OPERATION ON A MULTI-LANE ROADWAY
   1.9. TTC-53.0: SIGNING FOR PROJECT LIMITS

2. ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

TRANSPORTATION OPERATION PLAN:

1. THE CONTRACTOR MUST ADVISE EMERGENCY COMMUNICATIONS OF THE CITY AT 807-646-5700 ON ALL PLANNED LANE CLOSURES 24 HOURS IN ADVANCE.

2. IN CASE OF EMERGENCY, CALL 911.

   THE FOLLOWING IS A LIST OF LOCAL NON-EMERGENCY CONTACT INFORMATION:
   FIRE & EMS: 804-646-2500
   CITY POLICE: 804-646-3602
   CITY CHIEF: 804-646-6700
   STATE POLICE: 804-674-2000
   PROJECT PERSONNEL:
   CITY PROJECT MANAGER: YONGPING WANG (804-646-2467)
   ENGINEER CONTACT: KEVIN O'MEARA, TIMMONS GROUP (804-200-6423)
   INSPECTOR: TBD
   CITY OF RICHMOND DEPARTMENT OF PUBLIC WORKS: 804-646-6430

3. TRAFFIC INCIDENTS THAT MAY OCCUR WITHIN THE WORK ZONE:

   3.1. INSPECTOR SHALL NOTIFY THE CITY PROJECT MANAGER OF THE TRAFFIC INCIDENT AND TAKE PICTURES OF THE WORK ZONE SETUP.
   3.2. THE CONTRACTOR MAY HAVE TO HALT WORK OPERATIONS DEPENDING UPON THE INCIDENT SEVERITY.
   3.3. THE CITY POLICE WILL DETERMINE THE RESPONSE NECESSARY TO ALLOW TRAVELING PUBLIC AROUND THE INCIDENT, TAKE CONTROL OF THE INCIDENT, AND DIRECT ITS CLEARING AND RESTORATION TO NORMAL TRAFFIC CONDITIONS.

4. THE CITY POLICE INCIDENT REPORT WILL BE REVIEWED BY THE CITY PROJECT MANAGER AT 804-646-2467 TO DETERMINE ANY NECESSARY MODIFICATIONS TO THE WORK ZONE LAYOUT. IF CHANGES ARE NECESSARY, THEN A MEETING WILL BE CALLED WITH THE CONTRACTOR, CITY INSPECTOR, AND CITY PROJECT MANAGER TO DISCUSS THE MODIFICATION AND IMPLEMENTATION OF AN IMPROVED TRAFFIC CONTROL PLAN.

MAINTENANCE OF TRAFFIC (MOT) GENERAL NOTES:

1. ANY REQUIRED LANE CLOSURES MUST BE APPROVED IN ADVANCE BY THE CITY ENGINEER.

2. NORMAL WORKING HOURS ARE DEFINED AS 7:00 AM TO 7:00 PM, MONDAY THROUGH FRIDAY, UNLESS OTHERWISE DIRECTED BY THE CITY OR THE ENGINEER. NIGHTTIME WORKING HOURS ARE DEFINED AS 7:00 PM TO 7:00 AM.

3. STEEL PLATES ARE NOT ANTICIPATED ON THIS PROJECT, BUT IF THEY ARE USED, THE CONTRACTOR SHALL ENSURE THAT THEY ARE APPROVED BY THE CITY OF RICHMOND DEPARTMENT OF PUBLIC WORKS. ALL AREAS EXCAVATED DEEPER THAN 2" (TWO INCHES) BELOW EXISTING PAVEMENT SURFACE AND WITHIN THE CLEAR ZONE, AT THE CONCLUSION OF EACH WORK DAY, SHALL BE BACK FILLED TO FORM AN APPROXIMATE 6:1 WEDGE AGAINST THE PAVEMENT SURFACE FOR THE SAFETY AND PROTECTION OF VEHICULAR TRAFFIC. ALL COST PLACING, MAINTAINING, AND REMOVING THE 6:1 WEDGE SHALL BE INCLUDED IN THE BID PRICE FOR OTHER ITEMS IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. IN LIEU OF BACKFILLING EXCAVATED AREAS WITHIN THE ROADWAY, THE CONTRACTOR MAY USE TEMPORARY STEEL PLATES FOR THE SAFETY AND PROTECTION OF VEHICULAR TRAFFIC. THE PLACEMENT OF TEMPORARY STEEL PLATES SHALL BE IN ACCORDANCE WITH VIRGINIA WORK AREA PROTECTION MANUAL SPECIFICATIONS, SECTION 6G.15. TEMPORARY STEEL PLATES SHALL BE AFFIXED TO THE ROADWAY SURFACE VIA AND ASPHALT WEDGE. ADVANCE WARNING SIGNS W8-1 ("BUMP") AND W8-24 ("STEEL PLATES AHEAD") SHALL BE PLACED IN ADVANCE OF THE TEMPORARY STEEL PLATE.

4. ANY CONTRACT ITEM(S) NOT SPECIFICALLY NOTED IN THE MAINTENANCE OF TRAFFIC PLAN MAY BE SCHEDULED FOR CONSTRUCTION AT THE CONTRACTOR'S OPTION, AS APPROVED BY THE ENGINEER AND THE CITY.

5. VEHICULAR AND PEDESTRIAN ACCESS TO ADJACENT PROPERTIES AND CONNECTING STREETS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. PROPERTY OWNERS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO ANY ACTIVITIES WHICH WOULD IMPEDE ACCESS TO THE PROPERTY. IN ALL CASES IN WHICH EXISTING OR ESTABLISHED TRAFFIC PATTERNS WILL BE DISRUPTED, THE CONTRACTOR WILL NOTIFY ALL AFFECTED RESIDENTS AND/OR BUSINESSES A MINIMUM OF 48 HOURS IN ADVANCE OF THE ANTICIPATED DISRUPTION BY DISTRIBUTING DOOR-TO-DOOR NOTICIES. A COPY OF THE NOTICE SHALL BE FORWARDED TO THE PROJECT ENGINEER AND THE CITY FOR RECIEW AND APPROVAL PRIOR TO THE BEGINNING OF WORK. THE CONTRACTOR IS TO COORDINATE WITH BUSINESS OWNERS TO MINIMIZE IMPACTS. OVERNIGHT CONSTRUCTION OPERATIONS MAY BE NECESSARY TO MINIMIZE IMPACTS.

6. ALL TRAFFIC CONTROL SHALL BE SET UP AND SPACED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION (NOVEMBER 1, 2020 REVISION 2.1).

7. THE CONTRACTOR SHALL PROVIDE ADDITIONAL TRAFFIC CONTROL AS DIRECTED BY THE CITY OR THE PROJECT ENGINEER, SHOULD FIELD CONDITIONS WARRANT.

8. THE CONTRACTOR MAY REDUCE LANE WIDTHS TO 10' MINIMUM DURING CONSTRUCTION. ANY TEMPORARY PAVEMENT MARKINGS THAT ARE REQUIRED ARE THE RESPONSIBILITY OF THE CONTRACTOR.

9. THE CONTRACTOR IS RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF ALL TEMPORARY PAVEMENT MARKINGS AND SIGNAGE THAT ARE REQUIRED OR IMPLIED IN THE CONSTRUCTION PHASING SHEETS THAT FOLLOW. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TRAFFIC CONTROL DEVICES, SIGNAGE, EQUIPMENT, PERSONNEL, INCLUDING CERTIFIED TRAFFIC CONTROL PERSONNEL, ETC. TO CONTROL TRAFFIC DURING CONSTRUCTION WITHIN CITY-MAINTAINED RIGHT-OF-WAY. ALL TRAFFIC CONTROL SHALL BE IN STRICT ACCORDANCE WITH THE STANDARDS, GUIDELINES, POLICIES, AND OBJECTIVES OF THE LATEST EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION (NOVEMBER 1, 2020 REVISION 2.1), 2023 MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND ALL VDOT PERMITS.

10. AT NO TIME SHALL CONSTRUCTION OCCUR ON BOTH THE RIGHT AND LEFT SIDES OF VEHICLES UNLESS OTHERWISE SPECIFIED BY THE CITY AND THE ENGINEER.

11. ALL CONSTRUCTION MATERIALS AND EQUIPMENT MAY BE STORED ALONG THE WORK ZONE CORRIDOR OR STORED OFF-SITE. ALL CONSTRUCTION MATERIALS AND EQUIPMENT STORES ALONG THE CONSTRUCTION CORRIDOR SHALL BE OUTSIDE OF THE CLEAR ZONE/SIGHT DISTANCE RESTRICTIVE AREAS AND WITHIN CITY-MAINTAINED RIGHT-OF-WAY. ALL CONTRACTOR AND SUBCONTRACTOR EMPLOYEES SHALL PARK OFF-SITE. NO CONSTRUCTION MATERIALS OR EQUIPMENT SHALL BE STORED IN CSXT OR VPRA RIGHT-OF-WAY.

12. EMERGENCY VEHICLE, BUS, AND MAIL ROUTES SHALL BE MAINTAINED AT ALL TIMES.

13. A CSXT OR VPRA FLAGMAN MAY BE REQUIRED FOR ANY WORK WHICH REQUIRES ENTRY ONTO CSXT OR VPRA RIGHT-OF-WAY, ANY WORK THAT HAS POTENTIAL TO FOUL TRACK, AND ANY WORK TO BE PERFORMED WITHIN 50 FEET TO THE CENTERLINE OF TRACK. CSXT AND VPRA HAVE SOLE AUTHORITY TO DETERMINE THE NEED FOR FLAGGING REQUIRED TO PROTECT THEIR OPERATIONS AND PROPERTY.

14. BETWEEN PHASES, THE CONTRACTOR MAY TEMPORARILY CLOSE TURN LANES OUTSIDE OF PEAK HOURS IN ACCORDANCE WITH TTC-29.2.

15. THE CONTRACTOR MAY IMPLEMENT A TEMPORARY FLAGGING OPERATION AS NECESSARY TO COMPLETE UTILITY TIE-INS IN ACCORDANCE WITH TTC-23.2. FLAGGING SHALL ONLY BE IMPLEMENTED DURING NIGHTTIME HOURS.

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... K. O'MEARA
DESIGNED BY: ..... A. SETTLEMYER

L:\2839\69863-AABB_Roadway\DWG\Sheet\CD\69863-203C-R2.04x.dwg | Plotted on 3/24/2025 1:53 PM | by Anna Settlemyer

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

-LEGEND-
Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

MAINTENANCE OF TRAFFIC PLAN

DESIGN BY: ACS	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: ACS		HORIZ. DATUM: NAD83 VA-S	HORIZ. N/A	03/25/2025	R2.04	
CHECKED BY: KPO		VERT. DATUM: NAVD88	VERT. N/A			

30% PLANS
NOT FOR CONSTRUCTION

SUGGESTED SEQUENCE OF CONSTRUCTION:

PHASE 1 DEMOLITION OF MEDIAN AND INSTALLATION OF TEMPORARY TRAFFIC BARRIER

THIS PHASE OF CONSTRUCTION INCLUDES THE DEMOLITION OF MEDIAN ON ARTHUR ASHE BOULEVARD FROM NORFOLK STREET TO AVENUE OF CHAMPIONS THROUGH IMPLEMENTATION OF INSIDE LANE CLOSURES. THIS PHASE ALSO INCLUDES INSTALLATION OF TEMPORARY TRAFFIC BARRIER ON THE EXISTING BRIDGE DECK ADJACENT TO THE EXISTING NORTHBOUND LANES. THE CONTRACTOR SHALL INSTALL ASPHALT IN LOCATIONS OF MEDIAN DEMOLITION THAT ARE UTILIZED AS CROSSOVERS IN PHASE 2 AND PHASE 3. CONSTRUCTION INCLUDES THE UNDERGROUND DETENTION PIPE AT THE NORTH END OF THE PROJECT NEAR AVENUE OF CHAMPIONS. DURING THIS PHASE, THE 12" WATER AND GAS UTILITIES ARE TO BE TEMPORARILY RELOCATED UNDER THE NORTHBOUND SIDE OF THE EXISTING BRIDGE.

THE EXISTING NORTHBOUND INSIDE THROUGH LANE SHALL BE MAINTAINED, AND THE EXISTING NORTHBOUND OUTSIDE THROUGH LANE SHALL BECOME A RIGHT TURN ONLY LANE AT W LEIGH STREET. THE EXISTING SOUTHBOUND INSIDE THROUGH LANE SHALL BE MAINTAINED, AND THE EXISTING NORTHBOUND OUTSIDE THROUGH LANE SHALL BECOME A RIGHT TURN ONLY LANE ONTO BOULEVARD WEST. LEFT TURN LANES SHALL BE MAINTAINED ONTO AVENUE OF CHAMPIONS AND NORFOLK STREET.

PEDESTRIAN DETOURS SHALL BE PROVIDED FOR CROSSWALKS ACROSS ARTHUR ASHE BOULEVARD IN ACCORDANCE WITH TTC-36.2. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH TTC-17.2, TTC-27.2, TTC-53.0, AS PRESCRIBED IN THE GENERAL NOTES, MOT NOTES, AND THROUGH THE USE OF GROUP II CHANNELIZING DEVICES.

PHASE 2 TRAFFIC CROSSOVER TO NORTHBOUND LANES (STRUCTURAL SEQUENCE OF CONSTRUCTION PHASE I)

DURING THIS PHASE, A SINGLE THROUGH LANE SHALL BE MAINTAINED IN EACH DIRECTION. THIS PHASE INCLUDES IMPLEMENTATION OF A MEDIAN CROSSOVER OF THE SINGLE SOUTHBOUND THROUGH LANE TO THE EXISTING INNER NORTHBOUND THROUGH LANE. BOTH OF THE EXISTING SOUTHBOUND THROUGH LANES OF ARTHUR ASHE BOULEVARD WILL BE CLOSED FROM BOULEVARD WEST (ACROSS FROM AVENUE OF CHAMPIONS) TO NORFOLK STREET.

THE EXISTING INSIDE NORTHBOUND THROUGH LANE SHALL BE MAINTAINED THROUGH W LEIGH STREET AND SHIFT TO THE EXISTING OUTSIDE NORTHBOUND THROUGH LANE. THE EXISTING OUTSIDE THROUGH LANE SHALL BE CONVERTED TO A RIGHT TURN ONLY LANE ONTO WEST LEIGH STREET. A NORTHBOUND LEFT TURN LANE SHALL BE MAINTAINED ONTO NORFOLK STREET AND BOULEVARD WEST.

THE EXISTING SOUTHBOUND LEFT TURN LANE ONTO AVENUE OF CHAMPIONS SHALL BE MAINTAINED. THE EXISTING SOUTHBOUND RIGHT TURN LANE AT BOULEVARD WEST SHALL BE CLOSED, AND THE EXISTING SOUTHBOUND OUTSIDE THROUGH LANE SHALL BE CONVERTED TO A RIGHT TURN ONLY LANE ONTO BOULEVARD WEST.

APPROPRIATE SIGNING AND STRIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE 2023 MUTCD, THE LATEST EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION (NOVEMBER 1, 2020 REVISION, AND THE 2016 VDOT ROAD AND BRIDGE STANDARDS (APRIL 2024 REVISION). THIS PHASE MAY REQUIRE ADJUSTMENT OF SIGNAL HEADS AND/OR SIGNAGE ON THE MAST ARMS AT AVENUE OF CHAMPIONS.

CONSTRUCTION ACTIVITIES INCLUDE THE DEMOLITION OF THE SOUTHBOUND SIDE OF THE EXISTING BRIDGE AND PAVEMENT ALONG ARTHUR ASHE BOULEVARD BETWEEN NORFOLK STREET AND AVENUE OF CHAMPIONS. DUE TO ELEVATION DIFFERENCES BETWEEN THE PROPOSED BRIDGE AND THE EXISTING BRIDGE, SHEET PILE IS REQUIRED ON THE BRIDGE APPROACHES FROM EACH DIRECTION. SEE STRUCTURAL PLANS FOR DETAILS. TEMPORARY ASPHALT ON THE SOUTHBOUND SIDE WILL BE REQUIRED IN ADVANCE OF PHASE 3.

THIS PHASE INCLUDES CONSTRUCTION OF THE PROPOSED BRIDGE AND ROADWAY ONTHE EXISTING SOUTHBOUND SIDE. THIS INCLUDES STORMWATER FEATURES AND UTILITIES. THE CPSR-2 RAILING IS NOT TO BE CONSTRUCTED ON THE SOUTHBOUND SIDE OF THE BRIDGE DURING THIS PHASE. PRIOR TO AND IN ACCORDANCE WITH PHASE 3, TEMPORARY TRAFFIC BARRIER SHALL BE INSTALLED. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH TTC-27.2, TTC-44.2, TTC-53.0, AS PRESCRIBED IN THE GENERAL NOTES, MOT NOTES, AND THROUGH THE USE OF GROUP II CHANNELIZING DEVICES.

THE EXISTING PEDESTRIAN NORTHBOUND SIDEWALK SHALL REMAIN OPERATIONAL DURING THE ENTIRE PHASE FROM NORFOLK STREET TO AVENUE OF CHAMPIONS. DETOURS SHALL BE PROVIDED FOR THE SIDEWALK ON THE SOUTHBOUND SIDE IN ACCORDANCE WITH TTC-36.2, AS PRESCRIBED IN THE GENERAL NOTES, MOT NOTES, AND THROUGH THE USE OF GROUP II CHANNELIZING DEVICES.

PHASE 3 TRAFFIC CROSSOVER TO SOUTHBOUND LANES (STRUCTURAL SEQUENCE OF CONSTRUCTION PHASE II)

DURING THIS PHASE, A SINGLE THROUGH LANE SHALL BE MAINTAINED IN EACH DIRECTION. THE ULTIMATE SOUTHBOUND SIDE OF THE BRIDGE FROM PHASE 2 SHALL BE OPENED TO TRAFFIC. THIS PHASE INCLUDES IMPLEMENTATION OF A MEDIAN CROSSOVER OF THE SINGLE NORTHBOUND THROUGH LANE TO A TEMPORARY POSITION ON THE SOUTHBOUND SIDE. BOTH OF THE EXISTING NORTHBOUND THROUGH LANES OF ARTHUR ASHE BOULEVARD WILL BE CLOSED FROM NORFOLK STREET TO AVENUE OF CHAMPIONS.

THE EXISTING INSIDE NORTHBOUND THROUGH LANE SHALL BE MAINTAINED THROUGH W LEIGH STREET, WHICH WILL SHIFT AS NECESSARY TO CROSS OVER TO THE ULTIMATE SOUTHBOUND SIDE. THE EXISTING OUTSIDE THROUGH LANE SHALL BE CONVERTED TO A RIGHT TURN ONLY LANE ONTO WEST LEIGH STREET. A NORTHBOUND LEFT TURN LANE SHALL BE MAINTAINED ONTO NORFOLK STREET AND BOULEVARD WEST.

THE EXISTING SOUTHBOUND RIGHT TURN LANE AT BOULEVARD WEST SHALL BE CLOSED, AND THE EXISTING SOUTHBOUND OUTSIDE THROUGH LANE SHALL BE CONVERTED TO A RIGHT TURN ONLY LANE ONTO BOULEVARD WEST. A SOUTHBOUND LEFT TURN LANE ONTO AVENUE OF CHAMPIONS SHALL BE MAINTAINED.

APPROPRIATE SIGNING AND STRIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE 2023 MUTCD, THE LATEST EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION (NOVEMBER 1, 2020 REVISION, AND THE 2016 VDOT ROAD AND BRIDGE STANDARDS (APRIL 2024 REVISION). THIS PHASE MAY REQUIRE ADJUSTMENT OF SIGNAL HEADS AND/OR SIGNAGE ON THE MAST ARMS AT AVENUE OF CHAMPIONS.

AT THE BEGINNING OF THIS PHASE, THE 24" WATER LINE CONNECTION SHALL BE COMPLETED. CONSTRUCTION ACTIVITIES INCLUDE THE DEMOLITION OF THE NORTHBOUND SIDE OF THE EXISTING BRIDGE AND PAVEMENT ALONG ARTHUR ASHE BOULEVARD BETWEEN NORFOLK STREET AND AVENUE OF CHAMPIONS. THE NORTHBOUND SIDE OF THE PROPOSED BRIDGE AND ROADWAY WILL BE CONSTRUCTED. THIS INCLUDES STORMWATER FEATURES. THE CPSR-2 RAILING SHALL BE CONSTRUCTED ALONG THIS SIDE OF THE BRIDGE. THIS PHASE ALSO INCLUDES THE CONSTRUCTION OF MEDIAN ON THE BRIDGE DECK.

BY THE END OF THE PHASE, THE SHEET PILE INSTALLED IN PHASE 2 IS TO BE CUT X FEET BELOW THE PROPOSED ROAD SUBBASE AND COVERED WITH FILL MATERIAL, ENSURING ADEQUATE COMPACTION OF SOIL..

TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH TTC-27.2, TTC-44.2, TTC-53.0, AS PRESCRIBED IN THE GENERAL NOTES, MOT NOTES, AND THROUGH THE USE OF GROUP II CHANNELIZING DEVICES.

THE SOUTHBOUND PORTION OF THE PEDESTRIAN & BICYCLE FACILITY CONSTRUCTED IN PHASE 2 SHALL REMAIN OPERATIONAL DURING THE ENTIRE PHASE FROM NORFOLK STREET TO AVENUE OF CHAMPIONS. DETOURS SHALL BE PROVIDED FOR THE SIDEWALK ON THE NORTHBOUND SIDE IN ACCORDANCE WITH TTC-36.2, AS PRESCRIBED IN THE GENERAL NOTES, MOT NOTES, AND THROUGH THE USE OF GROUP II CHANNELIZING DEVICES.

PHASE 4 SOUTHBOUND OUTSIDE CONSTRUCTION (STRUCTURAL SEQUENCE OF CONSTRUCTION PHASE III)

THIS PHASE INCLUDES REMOVAL OF THE SOUTHBOUND CROSSOVER AND CONSTRUCTION OF THE CPSR-2 RAILING ADJACENT THE ULTIMATE OUTSIDE SOUTHBOUND THROUGH LANE. PLACEMENT OF IMPACT ATTENUATORS, PLANTER BOXES, AND CURB AT BRIDGE APPROACHES IS ALSO INCLUDED IN THIS PHASE. THE ULTIMATE OUTSIDE SOUTHBOUND AND INSIDE NORTHBOUND THROUGH LANES SHALL BE CLOSED.

TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH TTC-16.2, TTC-27.2, TTC-53.0, AS PRESCRIBED IN THE GENERAL NOTES, MOT NOTES, AND THROUGH THE USE OF GROUP II CHANNELIZING DEVICES.

THE NORTHBOUND SIDEWALK CONSTRUCTED IN PHASE 3 SHALL REMAIN OPERATIONAL DURING THE ENTIRE PHASE FROM NORFOLK STREET TO AVENUE OF CHAMPIONS. DETOURS SHALL BE PROVIDED FOR THE SIDEWALK ON THE SOUTHBOUND SIDE IN ACCORDANCE WITH TTC-36.2, AS PRESCRIBED IN THE GENERAL NOTES, MOT NOTES, AND THROUGH THE USE OF GROUP II CHANNELIZING DEVICES.

PHASE 5 MEDIAN CONSTRUCTION

THIS PHASE INCLUDES INSTALLATION OF THE PROPOSED MEDIAN. THE ULTIMATE INSIDE SOUTHBOUND AND NORTHBOUND THROUGH LANES SHALL BE CLOSED. BOTH THE NORTHBOUND SIDEWALK AND SOUTHBOUND PEDESTRIAN & BICYCLE FACILITY SHALL REMAIN OPERATIONAL DURING THE ENTIRE PHASE.

TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH TTC-17.2, TTC-27.2, TTC-53.0, AS PRESCRIBED IN THE GENERAL NOTES, MOT NOTES, AND THROUGH THE USE OF GROUP II CHANNELIZING DEVICES.

PHASE 6 RESURFACING AND FINAL STRIPING

THIS PHASE, THE CONTRACTOR SHALL PLACE FINAL SURFACE COURSE AND PAVEMENT MARKINGS THROUGH ALTERNATING LANE CLOSURES. BOTH THE NORTHBOUND SIDEWALK AND SOUTHBOUND PEDESTRIAN & BICYCLE FACILITY SHALL REMAIN OPERATIONAL DURING THE ENTIRE PHASE.

TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH TTC-16.2, TTC-17.2, TTC-26.2, TTC-27.2, TTC-53.0, AS PRESCRIBED IN THE GENERAL NOTES, MOT NOTES, AND THROUGH THE USE OF GROUP II CHANNELIZING DEVICES.

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... K. O'MEARA
DESIGNED BY: ..... A. SETTLEMYER

L:\2026\69863-AABB_Roadway\DWG\Sheet\CD\69863-203C-R2.04x.dwg | Plotted on 3/24/2025 1:53 PM | by Anna Settlemyer

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

--LEGEND:--

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

MAINTENANCE OF TRAFFIC PLAN

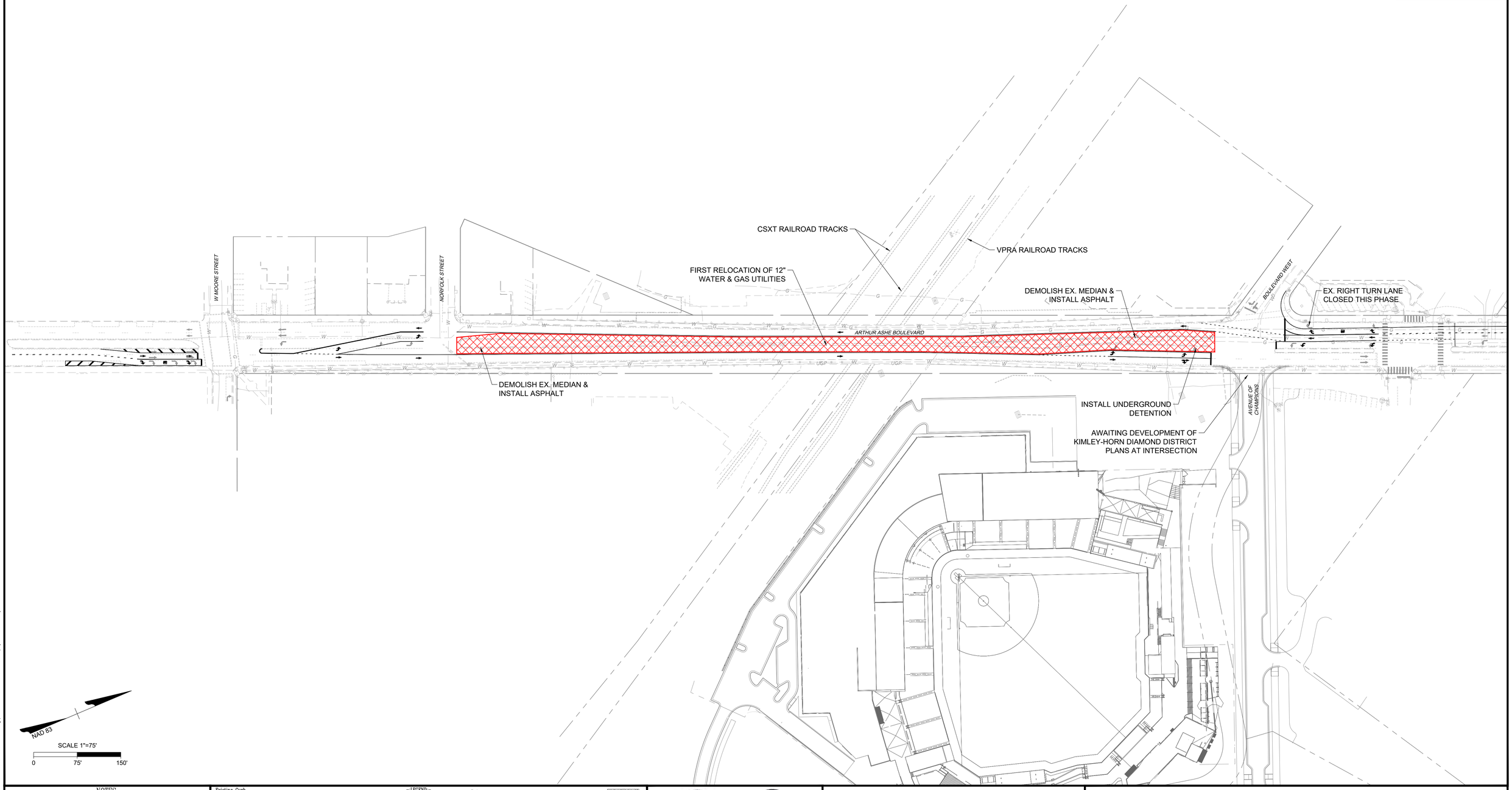
DESIGN BY: ACS	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: ACS		HORIZ. DATUM: NAD83 VA-S	HORIZ. N/A	03/25/2025	R2.05	
CHECKED BY: KPO		VERT. DATUM: NAVD88	VERT. N/A			

MAINTENANCE OF TRAFFIC LEGEND

PHASE 1 WORK AREA

MAINTENANCE OF TRAFFIC - PHASE 1

30% PLANS
NOT FOR CONSTRUCTION



SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: K. O'MEARA
DESIGNED BY: A. SETTLEMYER

L:\20\69863-AABB_Roadway\DWG\Sheet\CD\69863-203C-R2.06.dwg | Plotted on 3/24/2025 2:28 PM | by Anna Settlemyer

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

--LEGEND:--

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

CITY OF RICHMOND ESTABLISHED 1742

DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

MOT PLAN – PHASE 1

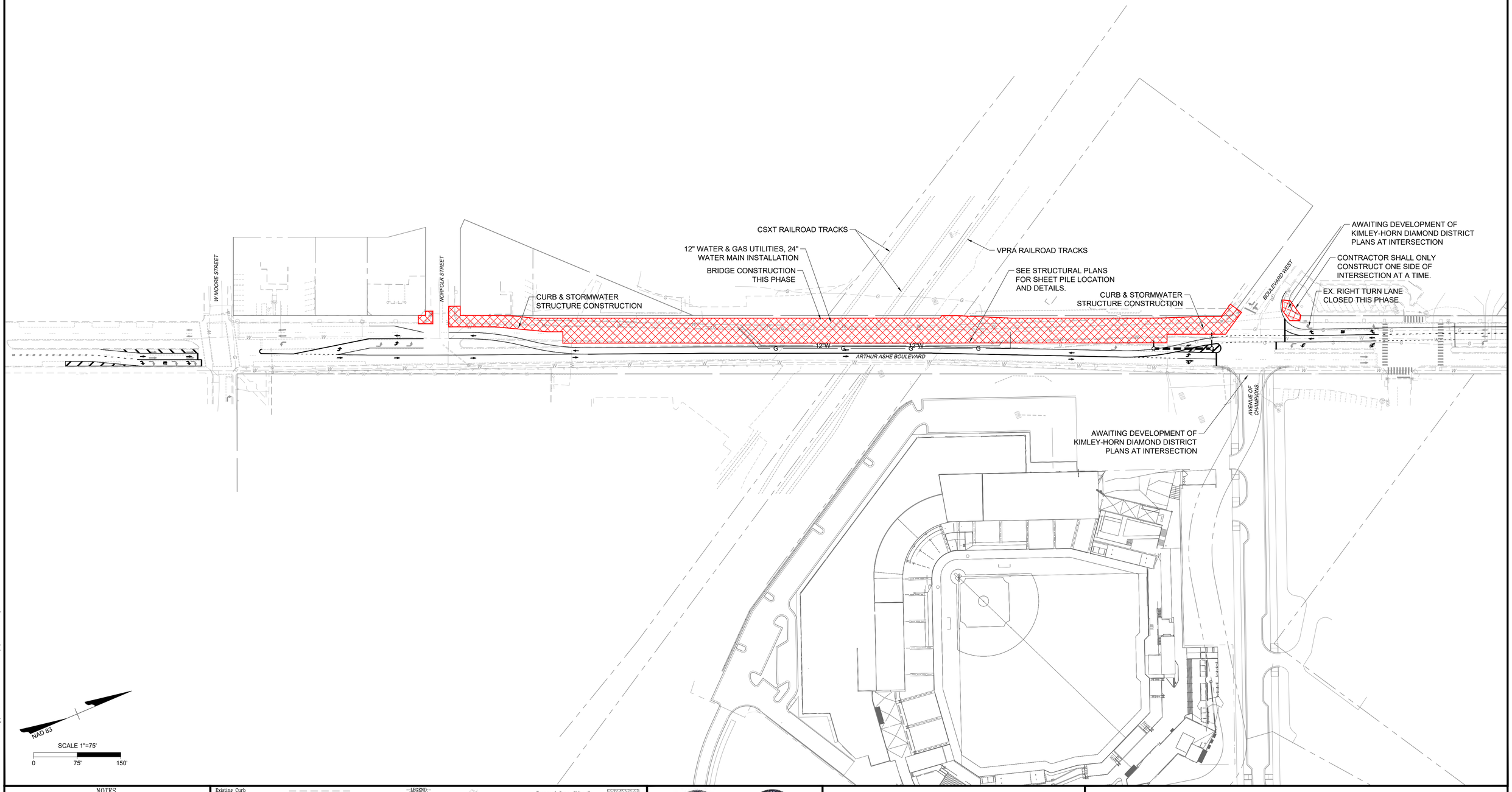
DESIGN BY: ACS DRAWN BY: ACS CHECKED BY: KPO	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA--S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 75' VERT. N/A	DATE 03/25/2025	SHEET R2.06	DRAWING NO.

MAINTENANCE OF TRAFFIC LEGEND

PHASE 2 WORK AREA

MAINTENANCE OF TRAFFIC - PHASE 2
(STRUCTURAL SEQUENCE OF CONSTRUCTION PHASE I)

30% PLANS
NOT FOR CONSTRUCTION



SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: K. O'MEARA
DESIGNED BY: A. SETTLEMYER

L:\2026\6963-AABI_Roadway\DWG\Sheet\CD\6963-203C-R2.07.dwg | Plotted on 3/24/2025 2:28 PM | by Anna Settlemyer

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

-LEGEND-

Existing Curb		Existing Curb Cut Ramp	
Curb & Gutter		Coping	
Sidewalk		Alley Crossing/Driveway	
Basin		Fire Hydrant	
Storm Sewer		Edge of Pavement	
Sewer Manhole		Fence	
Sanitary Sewer (Gravity)	SAN	Cornerstone	
Sanitary Sewer (Force Main)	FM	Property Pin	
Gas Line	G	Utility Pole	
Electric Line	UGP	Proposed Sewer	
Telephone/Telegraph	UGT	Manhole	
TV Cable	UCATV	Basin	
Water Line	W	Curb & Gutter	
Tree / Exist. Tree To Be Removed	/	Asphalt	
Property Line			

Proposed Conc. Sidewalk		Castings: Water Valve	
Brick Sidewalk		Water Meter	
		Gas Drip	
		Gas Valve	
		Telephone Manhole	
		Electric Manhole	
		Proposed Curb Cut Ramp	
		Decorative Light	
		Conduit	
		Conduit (Conc. Encased)	
		Retaining Wall	

CITY OF RICHMOND ESTABLISHED 1742 — DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

MOT PLAN – PHASE 2

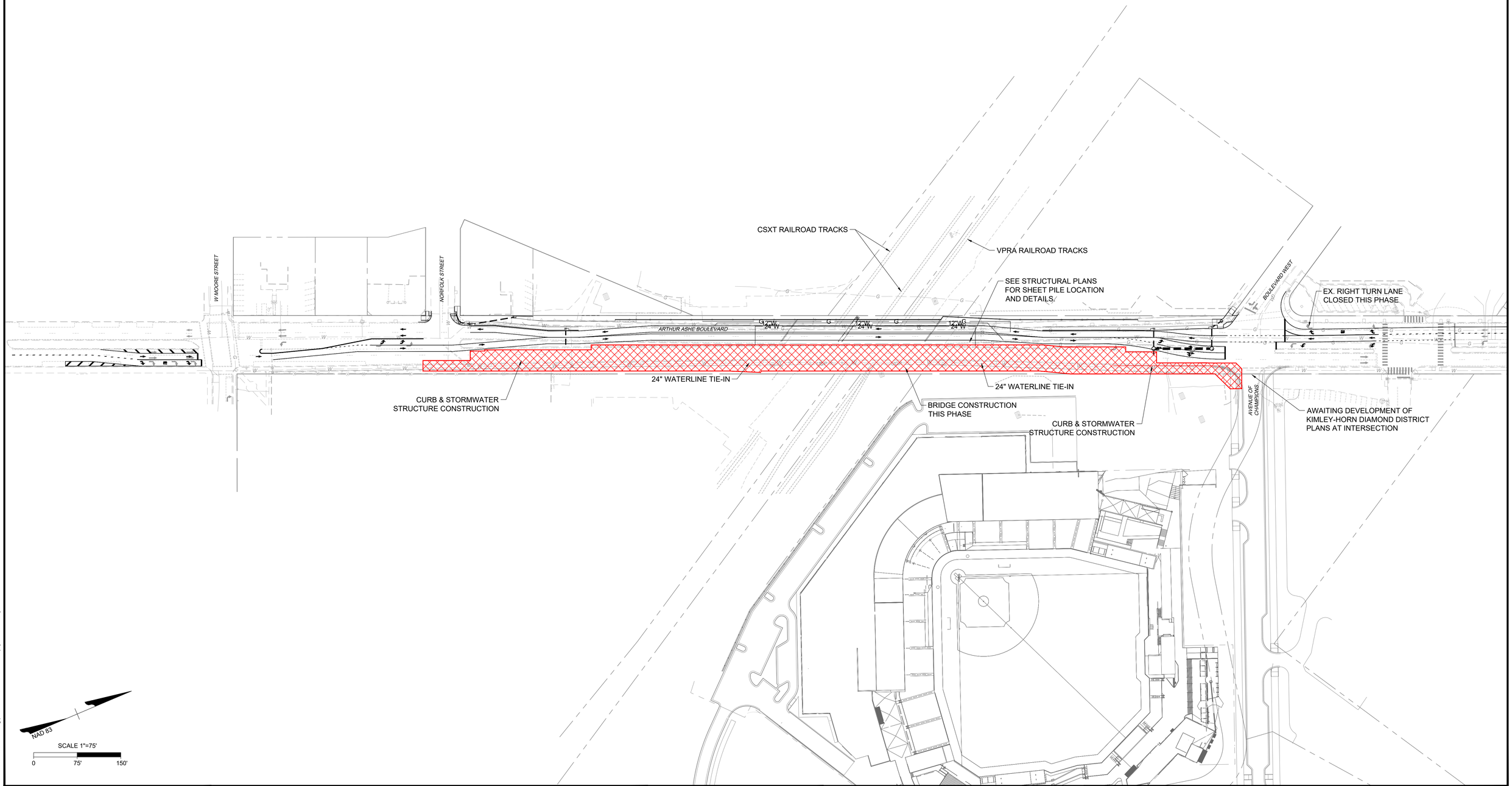
DESIGN BY: ACS	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: ACS		HORIZ. DATUM: NAD83 VA-S	HORIZ. 1" = 75'	03/25/2025	R2.07	
CHECKED BY: KPO		VERT. DATUM: NAVD88	VERT. N/A			

MAINTENANCE OF TRAFFIC LEGEND

PHASE 3 WORK AREA

MAINTENANCE OF TRAFFIC - PHASE 3
(STRUCTURAL SEQUENCE OF CONSTRUCTION PHASE II)

30% PLANS
NOT FOR CONSTRUCTION



NAD 83

SCALE 1"=75'

0 75' 150'

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... K. O'MEARA
DESIGNED BY: ..... A. SETTLEMYER

L:\2016\16863-AABB_Roadway\DWG\Sheet\CD\16863-203C-R2.08.dwg | Plotted on 3/24/2025 2:28 PM | by Anna Settlemyer

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

--LEGEND:--

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

CITY OF RICHMOND ESTABLISHED 1742

DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

MOT PLAN – PHASE 3

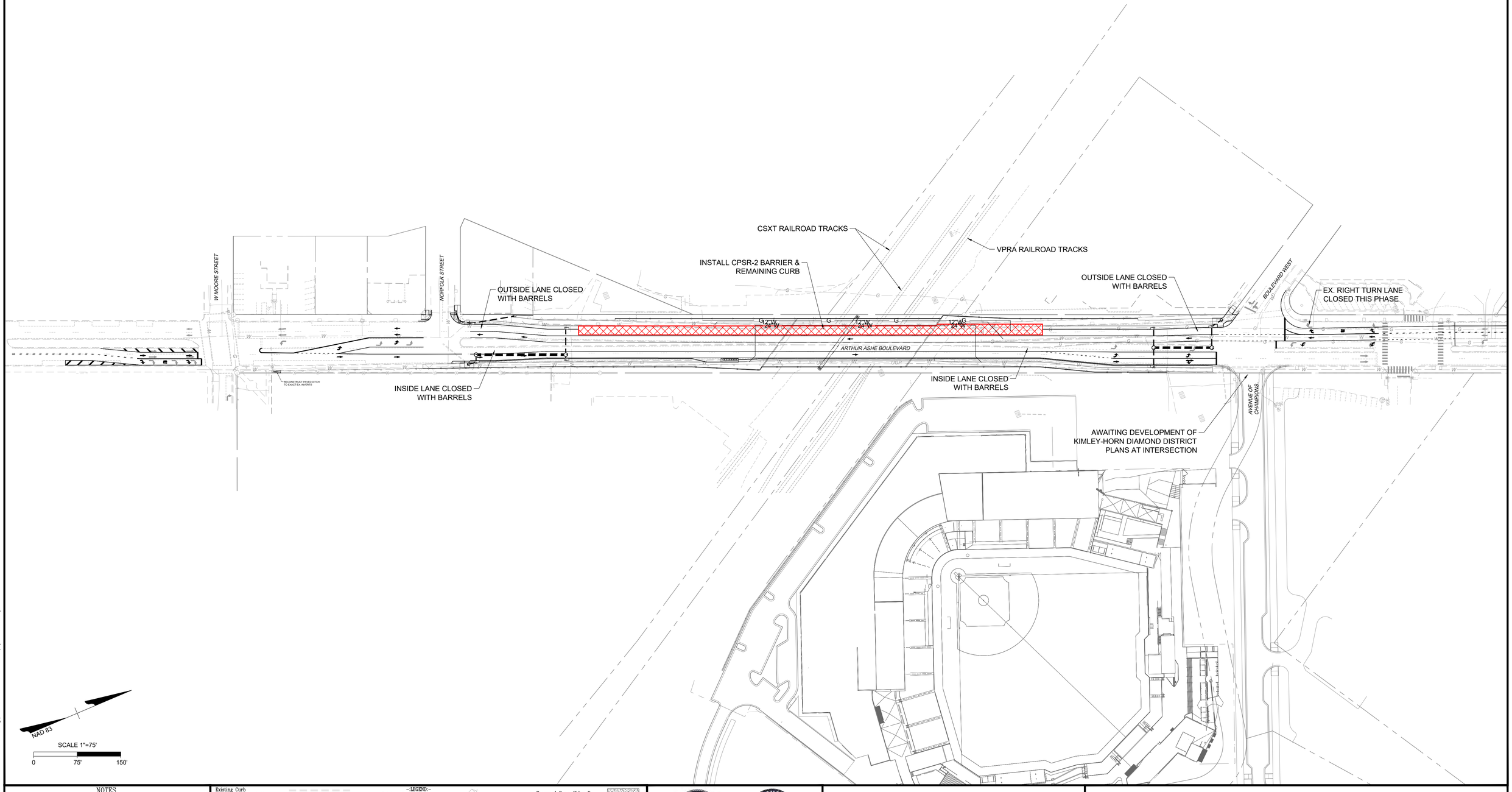
DESIGN BY: ACS DRAWN BY: ACS CHECKED BY: KPO	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 75' VERT. N/A	DATE 03/25/2025	SHEET R2.08	DRAWING NO.

MAINTENANCE OF TRAFFIC LEGEND

PHASE 4 WORK AREA

MAINTENANCE OF TRAFFIC - PHASE 4
(STRUCTURAL SEQUENCE OF CONSTRUCTION PHASE III)

30% PLANS
NOT FOR CONSTRUCTION



SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... K. O'MEARA
DESIGNED BY: ..... A. SETTLEMYER

L:\2026\69863-AABB_Roadway\DWG\Sheet\CD\69863-203C-R2.09.dwg | Plotted on 3/24/2025 2:28 PM | by Anna Settlemyer

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

LEGEND:

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

CITY OF RICHMOND ESTABLISHED 1742

DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

MOT PLAN – PHASE 4

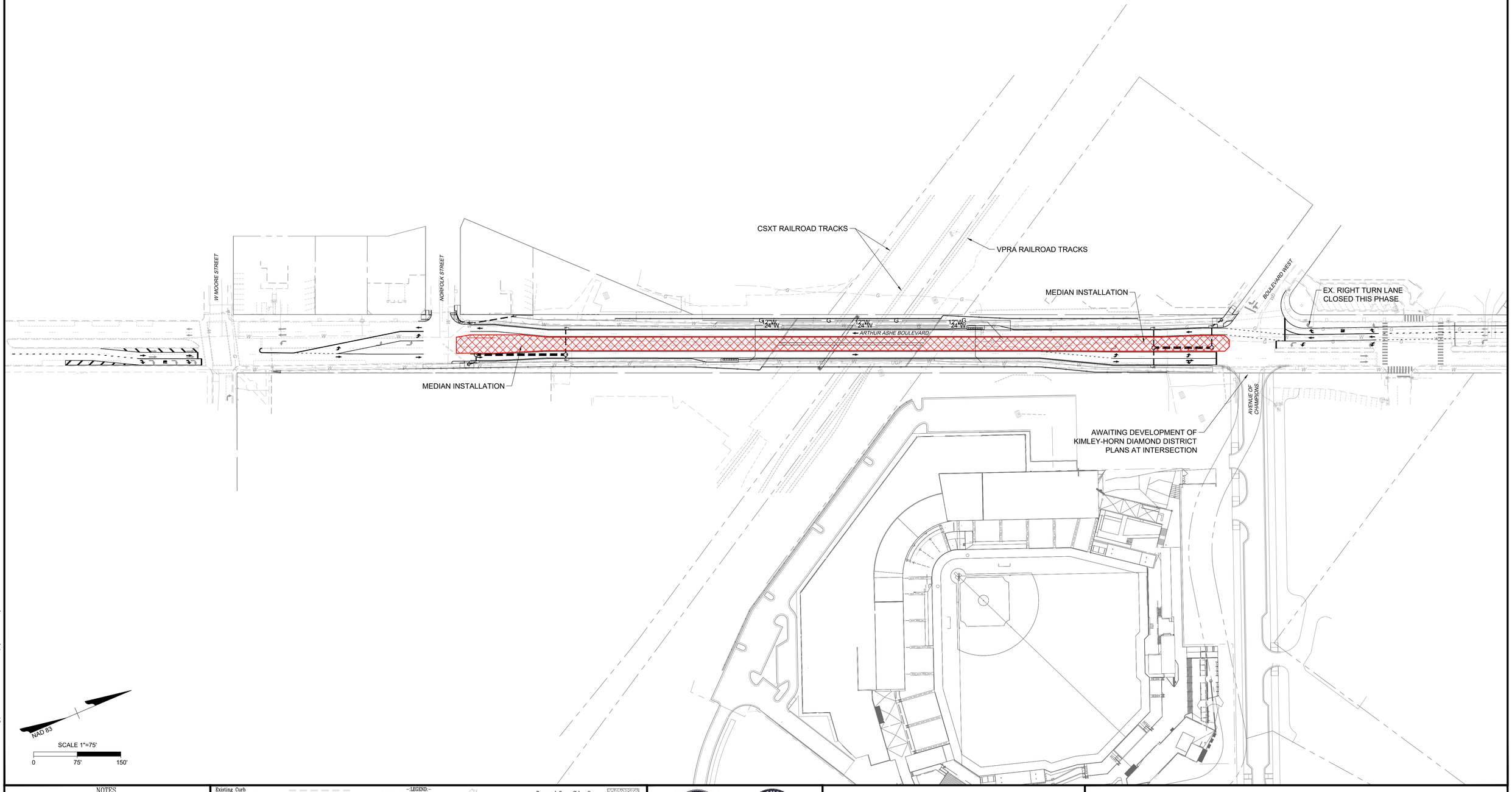
DESIGN BY: ACS DRAWN BY: ACS CHECKED BY: KPO	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 75' VERT. N/A	DATE 03/25/2025	SHEET R2.09	DRAWING NO.

MAINTENANCE OF TRAFFIC LEGEND

PHASE 5 WORK AREA

MAINTENANCE OF TRAFFIC - PHASE 5

30% PLANS
NOT FOR CONSTRUCTION



NAD 83

SCALE 1"=75'

0 75' 150'

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: K. O'MEARA
DESIGNED BY: A. SETTLEMYER

L:\2026\6863-AABB_Roadway\DWG\Sheet\C2\6863-203C-R2.10.dwg | Plotted on 3/24/2025 2:28 PM | by Anna Settlemyer

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

--LEGEND--

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

CITY OF RICHMOND ESTABLISHED 1742

DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

MOT PLAN – PHASE 5

DESIGN BY: ACS DRAWN BY: ACS CHECKED BY: KPO	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 75' VERT. N/A	DATE 03/25/2025	SHEET R2.10	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

NAD 83

SCALE 1"=25'
0 25' 50'

(A) DROP INLET
TOP = 192.92'
INV.(NE)=189.07' (12" TERRACOTTA)
INV.(S)=188.31' (12" TERRACOTTA)

(B) DROP INLET
TOP = 194.67'
INV.(E)=191.04' 15" RCP
INV.(W)=190.76' 15" RCP

(C) DROP INLET
TOP = 193.91'
INV.(W)=190.86' 15" RCP
INV.(S) FULL OF DEBRIS

(D) DROP INLET
TOP = 200.52'
INV.(S)=196.42'
INV.(N)=192.35' (CAN'T SEE PIPE)

(E) DROP INLET
TOP = 200.26'
INV.(NE)=195.25' (TERRA.)
INV.(S)=195.64' (STACKED) APPROX. DIR.
INV.(S)=193.97' (STACKED) APPROX. DIR.

(F) CATCH BASIN FULL OF DEBRIS
TOP =204.33'

(1) SANITARY MANHOLE
INACCESSIBLE NO HANDHOLE
TOP=194.56'

(2) SANITARY MANHOLE
TOP=200.34'
INV.(W)=187.84'
INV.(NE)=187.56' (CAN'T SEE PIPE)
INV.(S)=187.34'

(3) SANITARY MANHOLE
TOP=201.23'
INV.(E)=190.77' (CAN'T SEE PIPE)

LIGHTHOUSE PROPERTY ASSOCIATES, LLC
INST. #080008248
PARCEL ID: N0001596013
1300 N ARTHUR ASHE BLVD.

FAIRWAY NORTH, LLC
INSTRUMENT #110015087
PARCEL ID: N0001596007
1320 N ARTHUR ASHE BLVD.

1702 BELLEVILLE, LLC
INST. #210011706
PARCEL ID: N0001596002
1324 N ARTHUR ASHE BLVD.

PROGRESS DODSON III LLC
INSTRUMENT #150016687
PARCEL ID: N0001598001
1400 N ARTHUR ASHE BLVD.

KENNETH W. MINCZ & SANDRA H. MINCZ, TRUSTEES
INST. #1100113566
PARCEL ID: N0001598010
1410 N ARTHUR ASHE BLVD.

BTP BOULEVARD SQUARE LLC
INST. #060037406
INST. #060025815
INST. #060026927
INST. #060037405
PARCEL ID: N0001396028
1301 N ARTHUR ASHE BLVD.

W MOORE STREET
80' (PUBLIC) R/W
CITY OF RICHMOND BASELINE
SHEET 1TSE

NORFOLK STREET
80' (PUBLIC) R/W
CITY OF RICHMOND BASELINE
SHEET 1TNE

W LEIGH STREET
150' (PUBLIC) R/W
CITY OF RICHMOND BASELINE
SHEET 1TSE

ALTAMONT AV
CITY OF RICHMOND B
SHEET 1TNE

BEGIN CONSTR.
STA. 14+79.42

AABB CONSTR. ℄
N22° 56' 38.01"E

BEGIN MILL & OVERLAY
STA. 17+75.00

MATCH EX.

TIE TO EX. (TYP.)
2 PIPES 15"
TERRA. OR CONC.

TIE TO EX. SIDEWALK

90' TRANSITION (8.5' SHIFT AT 25 MPH)

REMOVE EX. GUARDRAIL

DEMOLISH EX. CONCRETE PAD TO RIGHT-OF-WAY

(REMOVE TYP.)

RECONSTRUCT SIDEWALK SLAB

RECONSTRUCT PAVED DITCH
TO EXACT EX. INVERTS

PROP. CHAIN LINK FENCE

10' CURB HEIGHT TRANSITION FROM 3" TO 6"

MATCHLINE SHEET R4.00 - STA. 21+25.00

KEY LEGEND

1. PROP. CITY CURB (8" DEPTH, 6" HEIGHT) REQ'D.
2. PROP. CITY CURB (8" DEPTH, 3" HEIGHT) REQ'D.
3. PROP. CITY CURB & GUTTER (8" DEPTH & 18" GUTTER PAN) REQ'D.
4. PROP. ST'D. CG-12 TY. A CURB RAMP REQ'D.
5. PROP. ST'D. CG-12 TY. B CURB RAMP REQ'D.
6. PROP. ST'D. CG-12 TY. M2 MEDIAN WITH CUT-THROUGH REQ'D.
7. PROP. ST'D. MS-1 (CITY CURB FACE) MEDIAN REQ'D.
8. PROP. ST'D. MS-2 (CITY CURB FACE) MEDIAN REQ'D.
9. PROP. ST'D IA-2 IMPACT ATTENUATOR
10. PROP. ST'D. WP-2 SAWCUT

* CONTRACTOR TO MILL, OVERLAY, AND / OR BUILD-UP PAVEMENT WHERE NECESSARY TO ACHIEVE CROSS SLOPES AND 2" OVERLAY / BUILD-UP CROSS SECTIONS AS SHOWN.

NOTE: CONTRACTOR TO REMOVE EXISTING TREES IN CONFLICT WITH PROPOSED PLAN FEATURES.

(C) EXISTING FEATURE TO BE REMOVED (BY CONTRACTOR)
(A) EXISTING UTILITY FEATURE TO BE ADJUSTED TO FINAL GRADE (BY CONTRACTOR)
(D) DO NOT DISTURB EXISTING FEATURE
(R) EXISTING UTILITY TO RELOCATED, REMOVED, OR ADJUSTED (BY OTHERS)

CONSTR. LIMITS: F (FILL) C (CUT)

- DETECTABLE WARNING SURFACE
- DEMOLITION OF PAVEMENT
- FULL DEPTH ASPHALT PAVEMENT
- MILL & VAR. DEPTH OVERLAY
- CONCRETE MEDIAN, BRIDGE DECK, & MISC. ITEMS
- CONCRETE SIDEWALK
- CONCRETE PEDESTRIAN & BICYCLE FACILITY
- CONCRETE IMPACT ATTENUATOR PAD
- MOD. FE-CL CHAIN LINK FENCE
- CPSR-2 RAILING (SEE STRUCTURAL PLANS)
- PEDESTRIAN FENCING (SEE STRUCTURAL PLANS)

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: K. O'MEARA
DESIGNED BY: A. SETTLEMYER

L:\2020\69863-AABB_Roadway\DWG\Sheet\CD\69863-203C-R3.00x.dwg | Plotted on 3/24/2025 2:38 PM | by Anna Settlemyer

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

-LEGEND:-

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

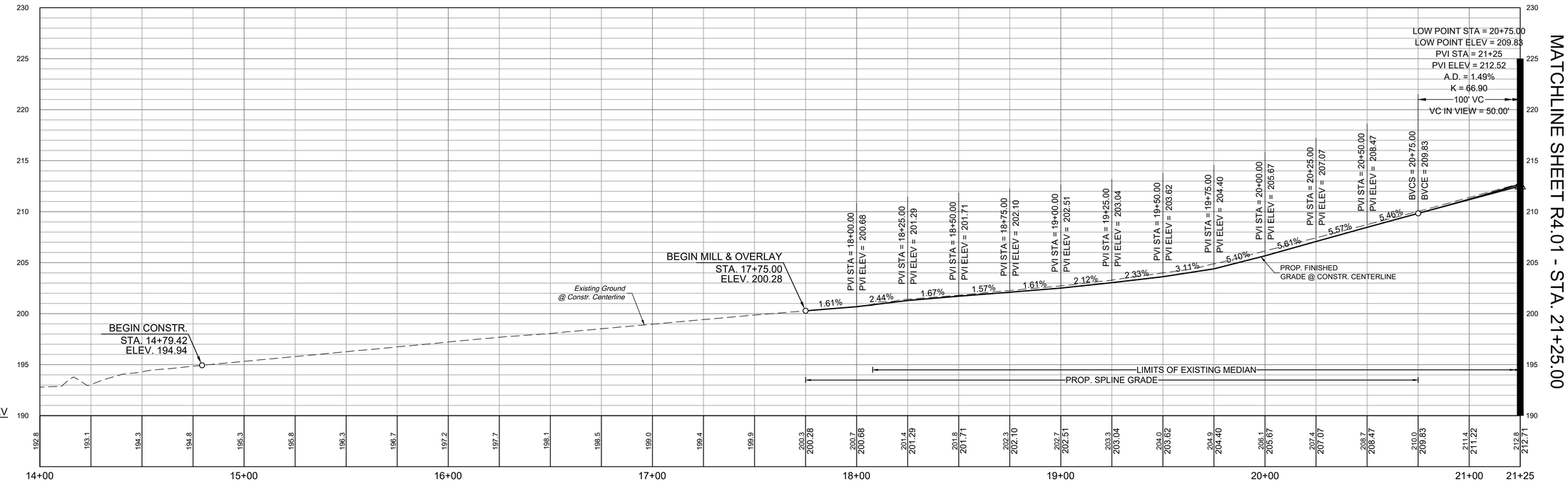
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT
PLAN SHEET

DESIGN BY: ACS	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: ACS		HORIZ. DATUM: NAD83 VA-S	HORIZ. 1" = 25'	03/25/2025	R3.00	
CHECKED BY: KPO		VERT. DATUM: NAVD88	VERT. N/A			

30% PLANS
NOT FOR CONSTRUCTION



5
0
0 25
PROFILE SCALE

SURVEYED BY: .....TIMMONS GROUP
SUPERVISED BY: .....K. O'MEARA
DESIGNED BY: .....ACS

L:\20\69863-AABB_Roadway\DWGS\Sheet\CD\69863-203C-R3.01v.dwg | Plotted on 3/24/2025 2:38 PM | by Anna Settlemyer

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

--LEGEND:--

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

PROFILE SHEET

DESIGN BY: ACS DRAWN BY: ACS CHECKED BY: KPO	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 25' VERT. 1" = 5'	DATE 03/25/2025	SHEET R3.01	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

NAD 83

SCALE 1"=25'
0 25' 50'

- (G) CATCH BASIN FULL OF DEBRIS TOP=199.13'
- (H) CATCH BASIN TOP=202.16' INV.(N)=199.91'
- (I) CATCH BASIN FULL OF DEBRIS TOP=200.19'
- (4) SANITARY MANHOLE TOP=206.67' INV.(W)=198.27' INV.(SW)=198.00' INV.(N)=198.00'
- (4) SANITARY MANHOLE TOP=206.57' INV.(W)=197.57' INV.(NE)=196.99' INV.(SW)=196.57'
- (1) WATER MANHOLE TOP=223.19'
- (2) WATER MANHOLE TOP=223.17'
- (3) WATER MANHOLE TOP=223.13'
- (4) WATER MANHOLE TOP=223.10'
- (5) WATER MANHOLE TOP=223.12'
- (6) WATER MANHOLE TOP=223.12'
- (7) WATER MANHOLE TOP=223.10'
- (A) GAS MANHOLE TOP=223.18'
- (B) GAS MANHOLE TOP=223.17'
- (C) GAS MANHOLE TOP=223.13'
- (D) GAS MANHOLE TOP=223.18'
- (E) GAS MANHOLE TOP=223.19'
- (F) GAS MANHOLE TOP=223.12'
- (F) GAS MANHOLE TOP=223.11'

MATCHLINE SHEET R3.00 - STA. 21+25.00

MATCHLINE SHEET R5.00 - STA. 28+00.00

UPC 117067
IN CONSTRUCTION Q4 2025

UPC 115408
IN DESIGN, BY OTHERS

EDGE OF PAVEMENT BRIDGE TRANSITION STA. 23+55.79

EDGE OF PAVEMENT BRIDGE TRANSITION STA. 26+04.70

REMOVE EX. GUARDRAIL

PROP. ULTIMATE LOCATION OF GAS LINE

PROP. ULTIMATE LOCATION OF 24" WATER MAIN

PROP. BRIDGE PIER

PROP. ULTIMATE LOCATION OF 12" WATER MAIN

30' CURB HEIGHT TRANSITION FROM 0" TO 6"

30' CURB HEIGHT TRANSITION FROM 6" TO 0"

PROP. TEMP. LOCATION OF 12" WATER MAIN

PROP. TEMP. LOCATION OF GAS LINE

(REMOVE TYP.)

AABB CONSTR. ℄

N22° 56' 38.01"E

CSX TRANSPORTATION (FORMERLY RICHMOND, FREDERICKSBURG AND POTOMAC RAILROAD)
VARIABLE WIDTH R/W
D.B. 281, PG. 179
VAL MAP 04661

VIRGINIA PASSENGER RAIL AUTHORITY (FORMERLY SEABOARD AIR LINE RAILROAD COMPANY)
VARIABLE WIDTH R/W
INST. #2100189866
VAL MAP 28653

PATTON AVE. (VAR. WIDTH PUBLIC) R/W
CITY OF RICHMOND BASELINE
SHEET 17NE

THE ECONOMIC DEVELOPMENT AUTHORITY OF THE CITY OF RICHMOND, VIRGINIA
INST. #240001521
D.P.W. DRAWING O-19237-A
PARCEL ID: N0001510012
2907 N ARTHUR ASHE BLVD.

CARMAX PARK UNDER CONSTRUCTION

KEY LEGEND

1. PROP. CITY CURB (8" DEPTH, 6" HEIGHT) REQ'D.
2. PROP. CITY CURB (8" DEPTH, 3" HEIGHT) REQ'D.
3. PROP. CITY CURB & GUTTER (8" DEPTH & 18" GUTTER PAN) REQ'D.
4. PROP. ST'D. CG-12 TY. A CURB RAMP REQ'D.
5. PROP. ST'D. CG-12 TY. B CURB RAMP REQ'D.
6. PROP. ST'D. CG-12 TY. M2 MEDIAN WITH CUT-THROUGH REQ'D.
7. PROP. ST'D. MS-1 (CITY CURB FACE) MEDIAN REQ'D.
8. PROP. ST'D. MS-2 (CITY CURB FACE) MEDIAN REQ'D.
9. PROP. ST'D IA-2 IMPACT ATTENUATOR
10. PROP. ST'D. WP-2 SAWCUT

* CONTRACTOR TO MILL, OVERLAY, AND / OR BUILD-UP PAVEMENT WHERE NECESSARY TO ACHIEVE CROSS SLOPES AND 2" OVERLAY / BUILD-UP CROSS SECTIONS AS SHOWN.

NOTE: CONTRACTOR TO REMOVE EXISTING TREES IN CONFLICT WITH PROPOSED PLAN FEATURES.

- (C) EXISTING FEATURE TO BE REMOVED (BY CONTRACTOR)
- (A) EXISTING UTILITY FEATURE TO BE ADJUSTED TO FINAL GRADE (BY CONTRACTOR)
- (D) DO NOT DISTURB EXISTING FEATURE
- (R) EXISTING UTILITY TO RELOCATED, REMOVED, OR ADJUSTED (BY OTHERS)

CONSTR. LIMITS: F (FILL) C (CUT)

- DETECTABLE WARNING SURFACE
- DEMOLITION OF PAVEMENT
- FULL DEPTH ASPHALT PAVEMENT
- MILL & VAR. DEPTH OVERLAY
- CONCRETE MEDIAN, BRIDGE DECK, & MISC. ITEMS
- CONCRETE SIDEWALK
- CONCRETE PEDESTRIAN & BICYCLE FACILITY
- CONCRETE IMPACT ATTENUATOR PAD
- MOD. FE-CL CHAIN LINK FENCE
- CPSR-2 RAILING (SEE STRUCTURAL PLANS)
- PEDESTRIAN FENCING (SEE STRUCTURAL PLANS)

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

--LEGEND:--

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

CITY OF RICHMOND ESTABLISHED 1742 — DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: K. O'MEARA
DESIGNED BY: A. SETTLEMYER

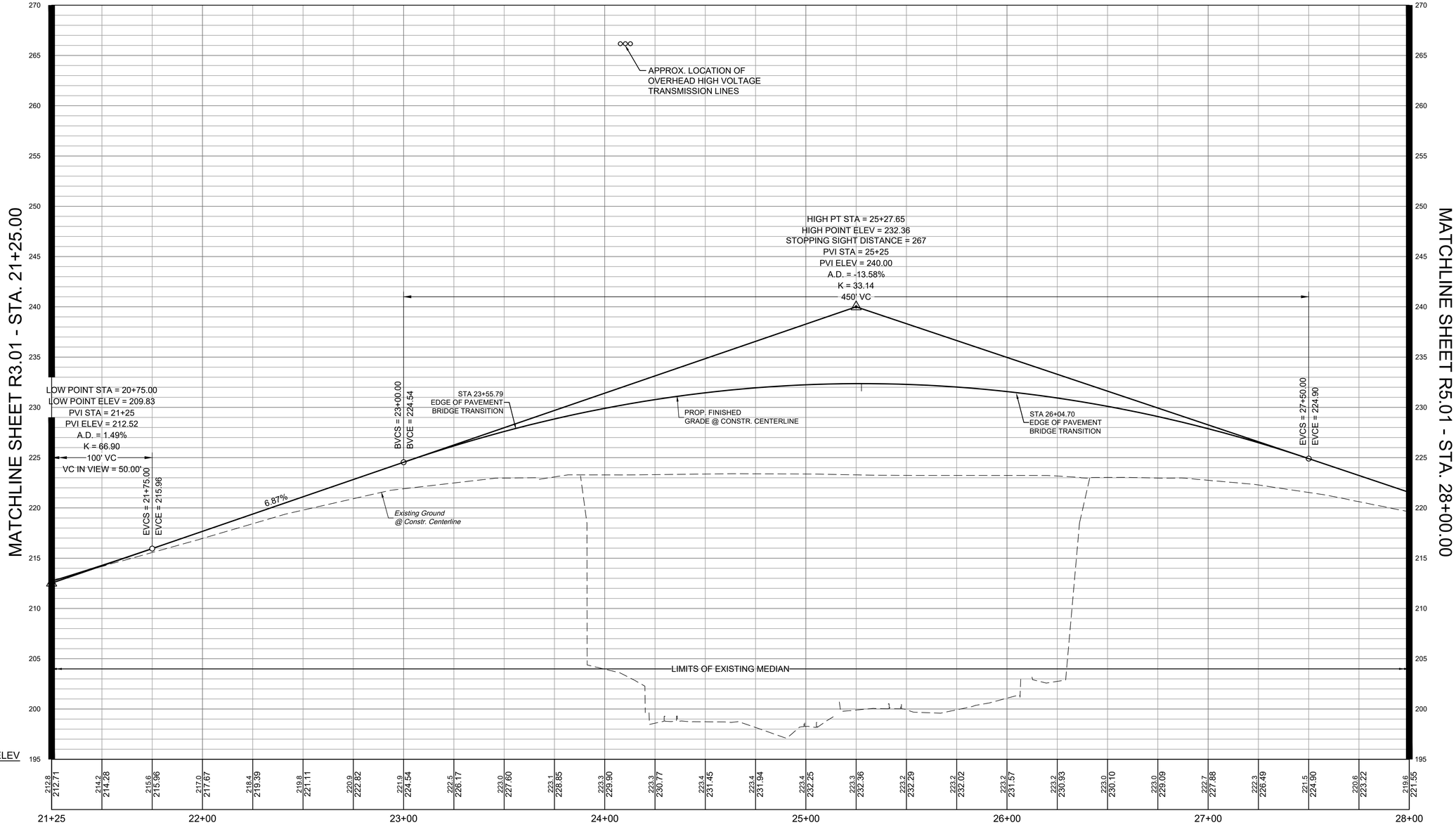
L:\2026\6863-A-ABB_Roadway\DWGS\Sheet\CD\6863-203C-R3.00v.dwg | Plotted on 3/24/2025 2:38 PM | by Anna Settlemyer

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT
PLAN SHEET

DESIGN BY: ACS	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: ACS		HORIZ. DATUM: NAD83 VA-S	HORIZ. 1" = 25'	03/25/2025	R4.00	
CHECKED BY: KPO		VERT. DATUM: NAVD88	VERT. N/A			

30% PLANS
NOT FOR CONSTRUCTION

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... K. O'MEARA
DESIGNED BY: ..... ACS



NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

--LEGEND:--

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT
PROFILE SHEET

DESIGN BY: ACS	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: ACS		HORIZ. DATUM: NAD83 VA-S	HORIZ. 1" = 25'	03/25/2025	R4.01	
CHECKED BY: KPO		VERT. DATUM: NAVD88	VERT. 1" = 5'			

L:\2020\69863-AABE_Roadway\DWG\Sheet\CD\69863-203C-R3.01x.dwg | Plotted on 3/24/2025 2:38 PM | by Anna Seiffernyer

30% PLANS
NOT FOR CONSTRUCTION

NAD 83

SCALE 1"=25'
0 25' 50'

- (J) CATCH BASIN TOP=201.65' INV.(W)=198.35' (PIPE CAPPED)
- (K) CATCH BASIN FULL OF DEBRIS TOP=200.89'
- (L) DROP INLET TOP=201.13' INV.(N)=197.37' INV.(E)=197.24'
- (M) DROP INLET TOP=200.53' PIPES CAPPED OFF
- (N) DROP INLET TOP=199.60' INV.(S)=196.72'
- (O) DROP INLET FULL OF DEBRIS TOP=200.28'
- (P) DROP INLET FULL OF DEBRIS TOP=200.25' INV.(S)=195.83'
- (Q) DROP INLET TOP=200.33' INV.(E)=195.78'
- (R) CATCH BASIN TOP=200.23' INV.(SW)=196.07' DRAINAGE MANHOLE TOP=200.42' INV.(NE)=195.58' INV.(NW)=194.20' INV.(SE)=193.57' INV.(SW)=194.77' 12" RCP INV.(SW)=193.76' 8" UNKNOWN
- (S) CATCH BASIN FULL OF DEBRIS TOP=199.45'
- (T) DROP INLET TOP=199.74' INV.(SW)=193.45'
- (U) DROP INLET TOP=200.63' INV.(SE)=194.67'
- (V) DROP INLET TOP=200.61' INV.(S)=195.50' INV.(SW)=192.43' (BOTTOM CHAMBER)
- (W) DRAINAGE MANHOLE TOP=201.19' INV.(N)=192.49' INV.(E)=192.11'
- (X) DROP INLET FULL OF DEBRIS TOP=201.11' INV.(N)=198.40'
- (Y) SANITARY MANHOLE TOP=203.80' INV.(E)=197.48' INV.(SW)=195.78' INV.(NE)=195.55' INV.(SE)=193.36' INV.(W)=191.60'
- (6) SANITARY MANHOLE TOP=189.55' INV.(S)=196.40' INV.(N)=196.13' INV.(W)=195.21'
- (7) SANITARY MANHOLE TOP=201.82' INV.(SE)=194.82'
- (8) SANITARY MANHOLE TOP=200.62' INV.(NW)=192.67' INV.(N)=187.32' INV.(SW)=187.32'
- (9) SANITARY MANHOLE TOP=200.80' INV.(W)=190.71' INV.(SE)=189.96' INV.(NW)=189.96'
- (10) SANITARY MANHOLE INACCESSIBLE TOP=200.03'
- (11) SANITARY MANHOLE TOP=199.84' INV.(NW)TO DI=192.60' INV.(S)=190.96' INV.(NW)TO SAN=182.89' INV.(SE)=181.34'
- (12) SANITARY MANHOLE TOP=200.57' INV.(SW)=189.97' INV.(NE)=189.47' INV.(NW)=189.39'
- (13) SANITARY MANHOLE TOP=200.55' INV.(NE)=193.76' (CAN'T SEE PIPE) INV.(E)=192.55' INV.(N)=186.00' INV.(SE)=180.90' (±60") INV.(NW)=180.90' (±60")
- (14) SANITARY MANHOLE TOP=200.90' INV.(W)=191.86' INV.(N)=191.86'

CC SCOTT'S ADDITION L.P.
INST. # 220011380
PARCEL ID: N0001605022
2902 N ARTHUR ASHE BLVD.

GH RICHMOND VA, LLC
INST.#230001692
PARCEL ID: N0001601002
2910 N ARTHUR ASHE BLVD.

CITY OF RICHMOND
INST.#140021788
ORDINANCE NO. 2013-223-2014-6
D.B. 17, PG. 53
D.P.W. DRAWING O22143
PARCEL ID: N0001510026
3001 N ARTHUR ASHE BLVD.

MATCHLINE SHEET R4.00 - STA. 28+00.00

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... K. O'MEARA
DESIGNED BY: ..... A. SETTLEMYER

L:\20356983-AABB_Roadway\DWG\Sheet\CD\69863-203C-R3.00x.dwg | Plotted on 3/24/2026 2:39 PM | by Anna Settlemyer

AWAITING DEVELOPMENT OF KIMLEY-HORN DIAMOND DISTRICT PLANS AT INTERSECTION

AWAITING DEVELOPMENT OF KIMLEY-HORN DIAMOND DISTRICT PLANS AT INTERSECTION

REMOVE EX. GUARDRAIL

REMOVE EX. GUARDRAIL

(REMOVE TYP.)

75' TRANSITION (3' SHIFT AT 25 MPH)

125' TAPER (12' SHIFT AT 25 MPH)

175' STORAGE

TIE TO EX. (TYP.)

TIE TO EX. (TYP.)

END CONSTR. STA. 31+68.06

AABB CONSTR. ℄

N22° 56' 38.01"E

BOULEVARD WEST
D.B. 807, PG. 384
D.P.W. DRAWING
CITY OF RICHMOND BASELINE SHEET 1 NE

9.63' Sidewalk Easement and Public Access Easement

VARIABLE WIDTH VEPCO EASEMENT D.B. 815, PG. 1258

EXIST. R/W

ONE STORY BUILDING FF=203.05'

MULTI-STORY BUILDING

APPROX. DIR. OF PIPE APPEARS TO GO TOWARDS BUILDING UNDER CONSTRUCTION

APPROX. DIR. OF PIPE PER GIS

APPROX. DIR. OF PIPE

APPROX. LOCATION OF 60" SANITARY PIPE PER GIS

APPROX LOCATION OF CITY OF RICHMOND U/G WATERLINE GIS MAPS SHOW 3" CIC WATERLINE GOING TO DEMOLISHED AUTO SHOP. POSS INACTIVE OR ABANDONED

GPS-MAGNAIL #3004
N:3732989.95713
E:11782704.67241
EL.=205.55'

GPS-MAGNAIL #3005
N:3733378.93377
E:11782879.29357
EL.=200.12'

SHERWOOD AVE. EXTENDED 40' (PRIVATE) R/W D.P.W. DRAWING #O2080

U/G NATURAL GAS - 2" PE (CITY OF RICHMOND)

U/G NATURAL GAS - 12" STEEL (CITY OF RICHMOND)

U/G NATURAL GAS - 2"STEEL SERVICE (CITY OF RICHMOND)

U/G WATERLINE - 24" CI (CITY OF RICHMOND)

U/G WATERLINE - 12" DIC (CITY OF RICHMOND)

U/G NATURAL GAS - 2"STEEL (CITY OF RICHMOND)

U/G WATERLINE - 16" CIC (CITY OF RICHMOND)

U/G WATERLINE - 12" CI (CITY OF RICHMOND)

U/G POWER (DOMINION ENERGY)

U/G COMM DUCT (VERIZON)

U/G COMM DUCT (COMCAST)

U/G COMM FIBER (MCI)

U/G COMM FIBER (LUMOS)

U/G POWER (PRIVATE)

U/G TRAFFIC CONTROL (CITY OF RICHMOND) 12" DECIDUOUS

U/G TRAFFIC CONTROL (CITY OF RICHMOND)

U/G WATERLINE - 24" CI (CITY OF RICHMOND)

U/G WATERLINE - 24" CIC (CITY OF RICHMOND)

6' CHAIN LINK FENCE

7' CHAIN LINK FENCE

EMPTY VAULT

COMMUNICATION VAULT

UTILITY VAULT

WATER VAULT

METAL SIGNAL BOX

PLANT BEDS

PARKING SPACE

PAINT STRIPE

CROSSWALK

HANDICAP RAMP

SIDEWALK

CURB

EDGE OF PAVEMENT

EDGE OF CONCRETE

BACK OF CURB

STOP LIGHT

SIGN

CREPE MYRTLE

DECIDUOUS

±39° PRC PER GIS

±40° BRICK TROUGH

24" RCP

12" RCP

15"-18" RCP CAPPED OFF

12"-15" RCP

12"-18" RCP

18" RCP

12" TERRA

GUARDRAIL

KEY LEGEND △

1. PROP. CITY CURB (8" DEPTH, 6" HEIGHT) REQ'D.
2. PROP. CITY CURB (8" DEPTH, 3" HEIGHT) REQ'D.
3. PROP. CITY CURB & GUTTER (8" DEPTH & 18" GUTTER PAN) REQ'D.
4. PROP. ST'D. CG-12 TY. A CURB RAMP REQ'D.
5. PROP. ST'D. CG-12 TY. B CURB RAMP REQ'D.
6. PROP. ST'D. CG-12 TY. M2 MEDIAN WITH CUT-THROUGH REQ'D.
7. PROP. ST'D. MS-1 (CITY CURB FACE) MEDIAN REQ'D.
8. PROP. ST'D. MS-2 (CITY CURB FACE) MEDIAN REQ'D.
9. PROP. ST'D IA-2 IMPACT ATTENUATOR
10. PROP. ST'D. WP-2 SAWCUT

* CONTRACTOR TO MILL, OVERLAY, AND / OR BUILD-UP PAVEMENT WHERE NECESSARY TO ACHIEVE CROSS SLOPES AND 2" OVERLAY / BUILD-UP CROSS SECTIONS AS SHOWN.

NOTE: CONTRACTOR TO REMOVE EXISTING TREES IN CONFLICT WITH PROPOSED PLAN FEATURES.

- (C) EXISTING FEATURE TO BE REMOVED (BY CONTRACTOR)
- (A) EXISTING UTILITY FEATURE TO BE ADJUSTED TO FINAL GRADE (BY CONTRACTOR)
- (D) DO NOT DISTURB EXISTING FEATURE
- (R) EXISTING UTILITY TO RELOCATED, REMOVED, OR ADJUSTED (BY OTHERS)

CONSTR. LIMITS: F (FILL) C (CUT)

- DETECTABLE WARNING SURFACE
- DEMOLITION OF PAVEMENT
- FULL DEPTH ASPHALT PAVEMENT
- MILL & VAR. DEPTH OVERLAY
- CONCRETE MEDIAN, BRIDGE DECK, & MISC. ITEMS
- CONCRETE SIDEWALK
- CONCRETE PEDESTRIAN & BICYCLE FACILITY
- CONCRETE IMPACT ATTENUATOR PAD
- MOD. FE-CL CHAIN LINK FENCE
- CPSR-2 RAILING (SEE STRUCTURAL PLANS)
- PEDESTRIAN FENCING (SEE STRUCTURAL PLANS)

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

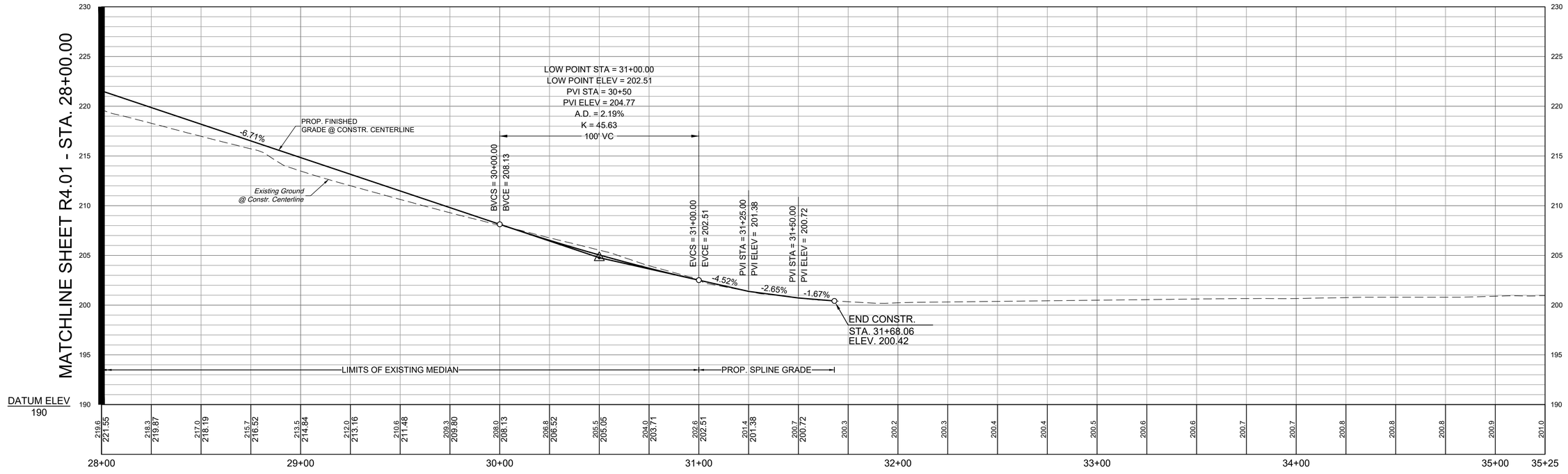
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT
PLAN SHEET

DESIGN BY: ACS	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: ACS		HORIZ. DATUM: NAD83 VA-S	HORIZ. 1" = 25'	03/25/2025	R5.00	
CHECKED BY: KPO		VERT. DATUM: NAVD88	VERT. N/A			

30% PLANS
NOT FOR CONSTRUCTION



5
0
0 25
PROFILE SCALE

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... K. O'MEARA
DESIGNED BY: ..... ACS

L:\2026\69863-AABB_Roadway\DWG\Sheet\C2\69863-203C-R3.01x.dwg | Plotted on 3/24/2025 2:39 PM | by Anna Settlemyer

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

--LEGEND--

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

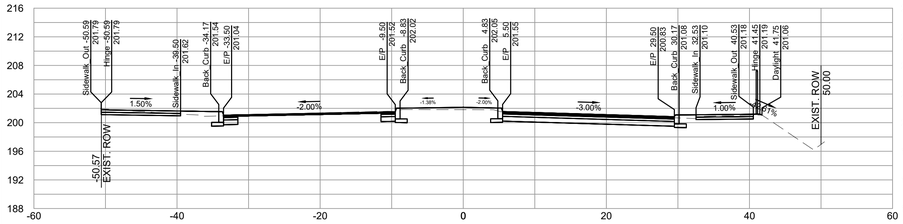
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

PROFILE SHEET

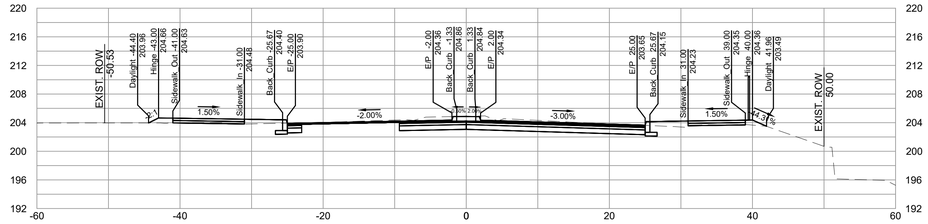
DESIGN BY: ACS DRAWN BY: ACS CHECKED BY: KPO	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 25' VERT. 1" = 5'	DATE 03/25/2025	SHEET R5.01	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

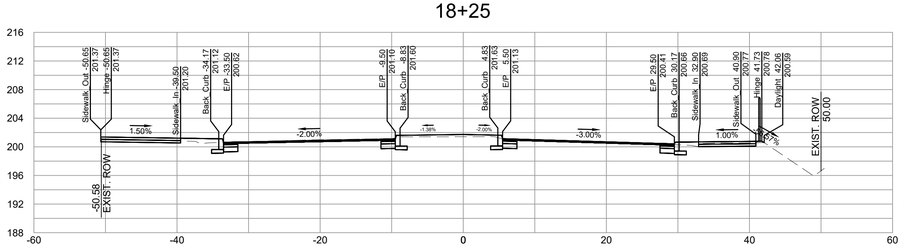
18+50



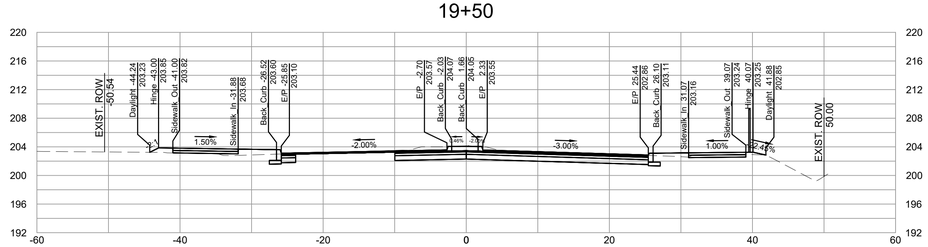
19+75



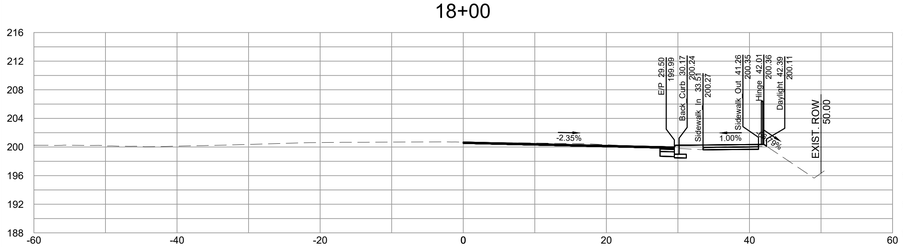
18+25



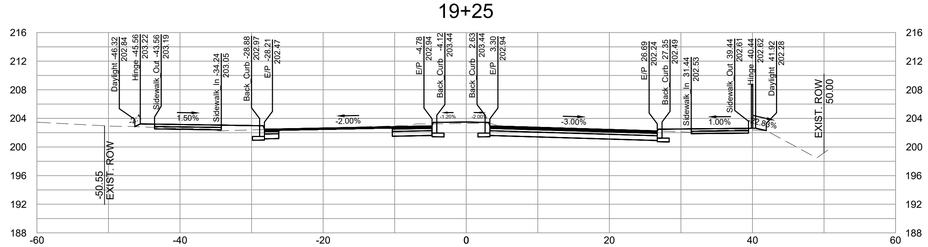
19+50



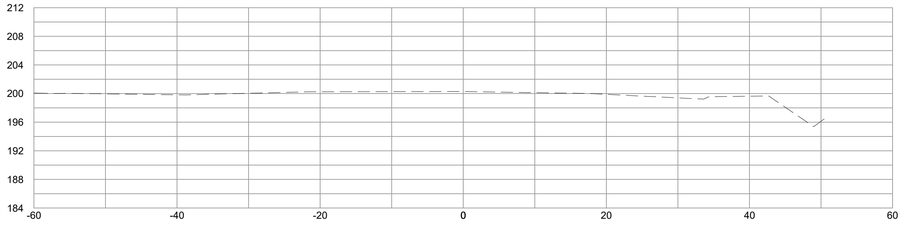
18+00



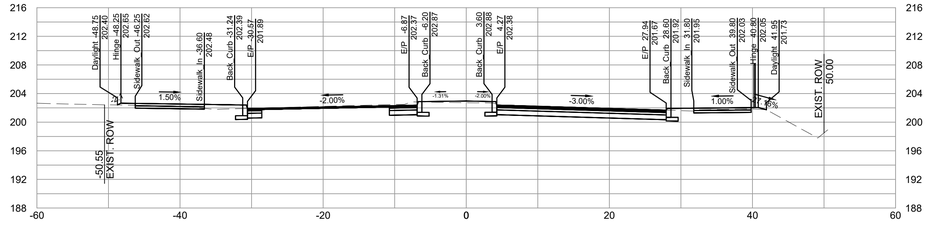
19+25



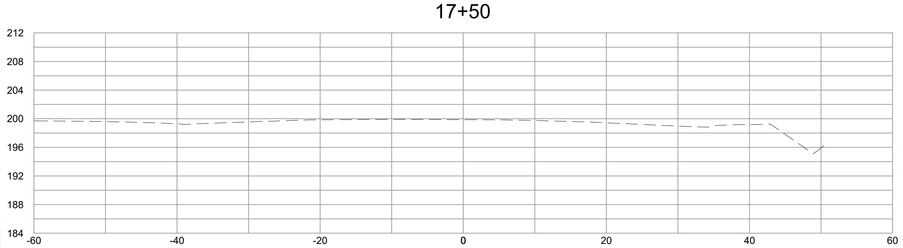
17+75



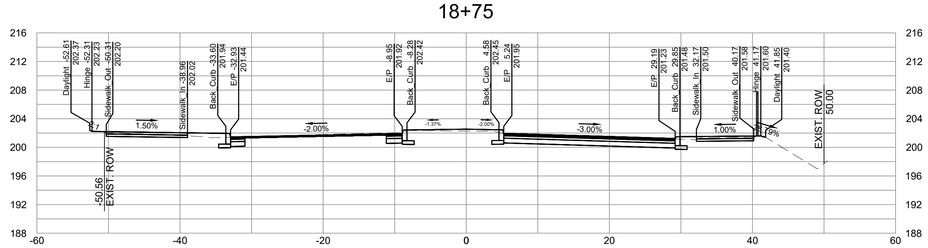
19+00



17+50



18+75



SURVEYED BY:.....TIMMONS GROUP.....
SUPERVISED BY:.....K. O'MEARA.....
DESIGNED BY:.....A. SETTLEMYER.....

L:\2026\6863-AABB_Roadway\DWG\Sheet\CD\6863-203C-R6.00x.dwg | Plotted on 3/24/2025 1:58 PM | by Anna Settlemyer

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

-LEGEND:-

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

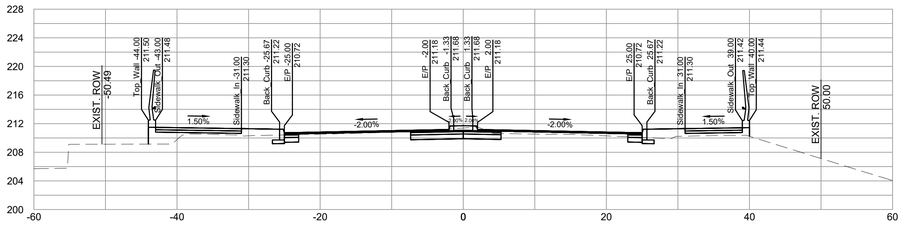
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

CROSS SECTIONS

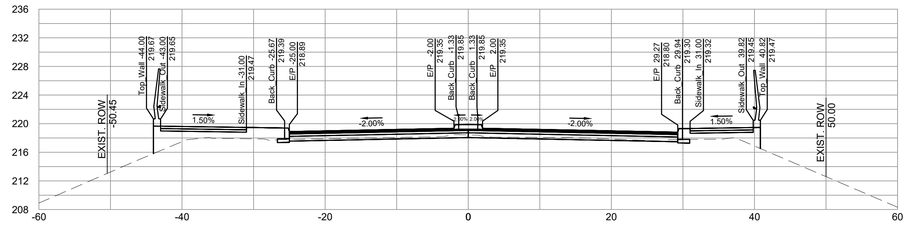
DESIGN BY: ACS	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: ACS		HORIZ. DATUM: NAD83 VA-S	HORIZ. 1" = 10'	03/25/2025	R6.00	
CHECKED BY: EPO		VERT. DATUM: NAVD88	VERT. N/A			

30% PLANS
NOT FOR CONSTRUCTION

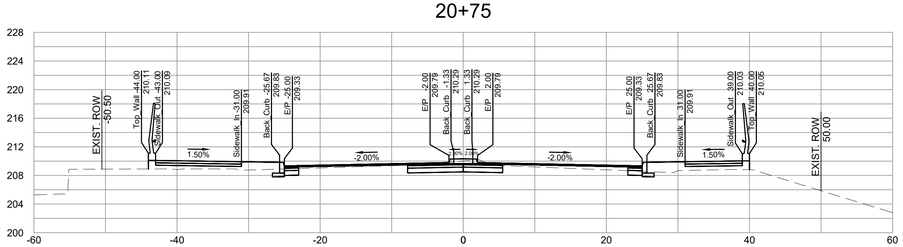
21+00



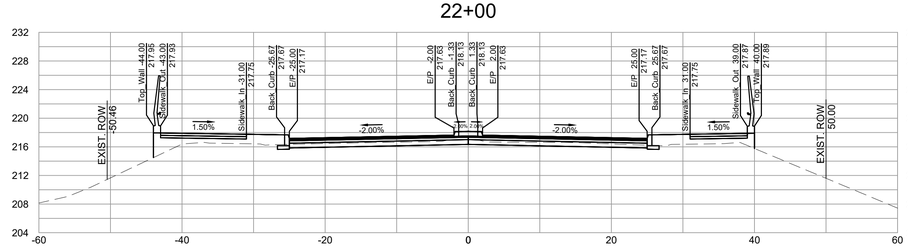
22+25



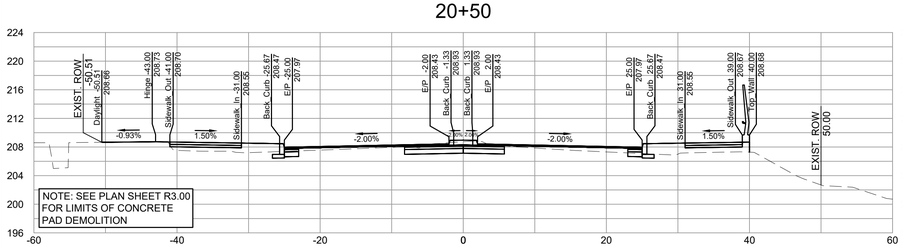
20+75



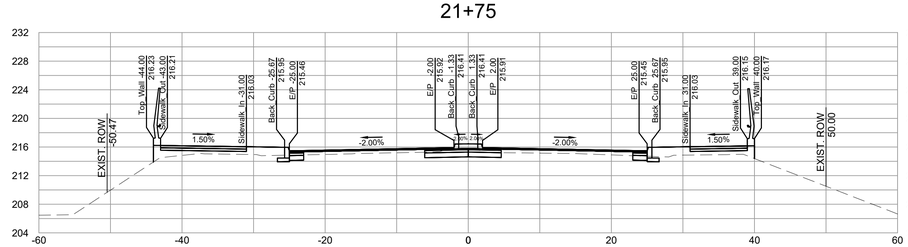
22+00



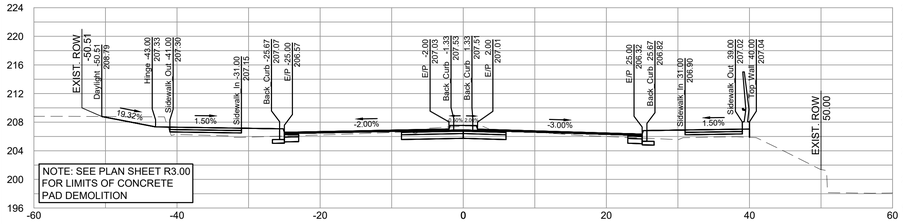
20+50



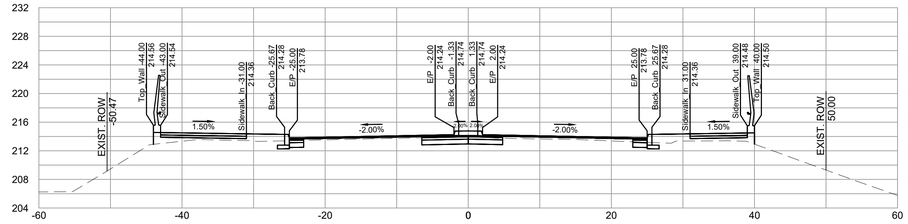
21+75



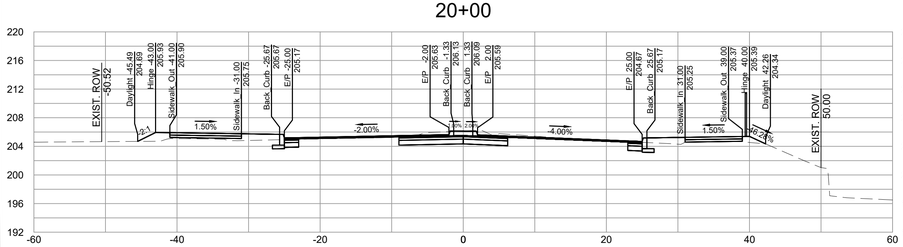
20+25



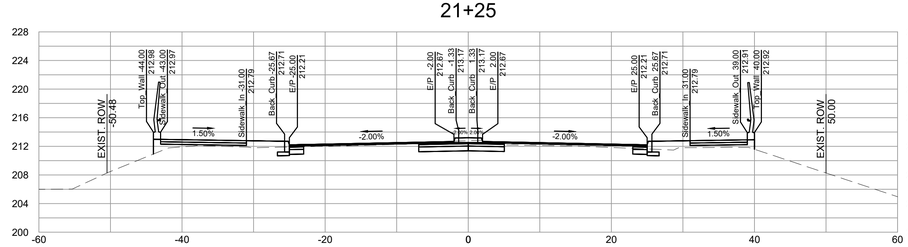
21+50



20+00



21+25



NOTE: SEE STRUCTURAL PLANS FOR BRIDGE AND RETAINING WALL DESIGN.

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... K. O'MEARA
DESIGNED BY: ..... A. SETTLEMYER

L:\2026\6863-AABB_Roadway\DWG\Sheet\CD\6863-203C-R6.60x.dwg | Plotted on 3/24/2025 1:59 PM | by Anna Settlemyer

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

-LEGEND:-

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

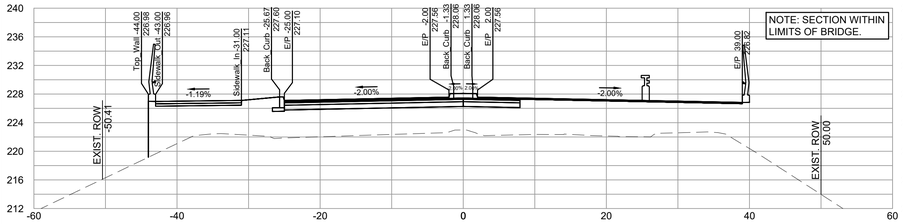
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

CROSS SECTIONS

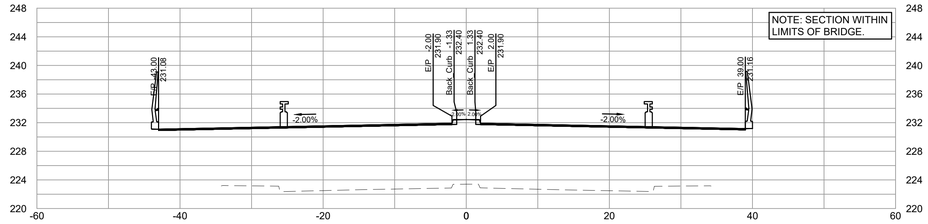
DESIGN BY: ACS DRAWN BY: ACS CHECKED BY: EPO	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET R6.01	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

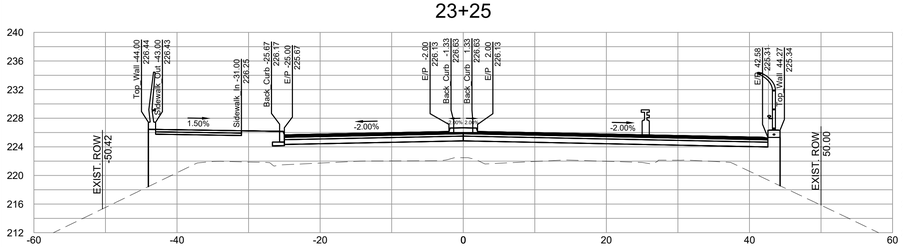
23+50



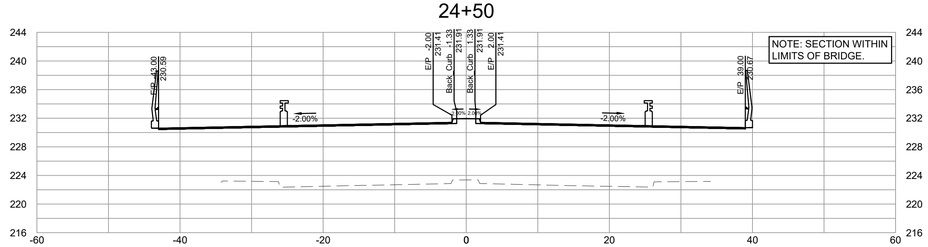
24+75



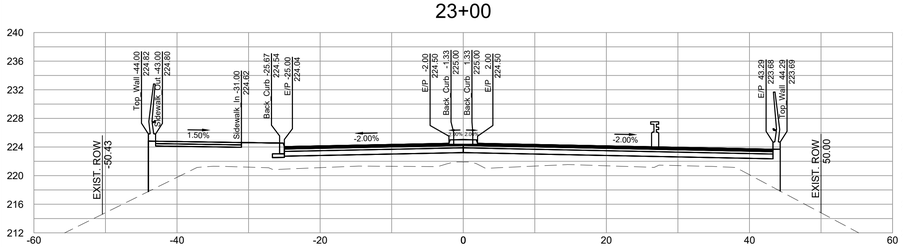
23+25



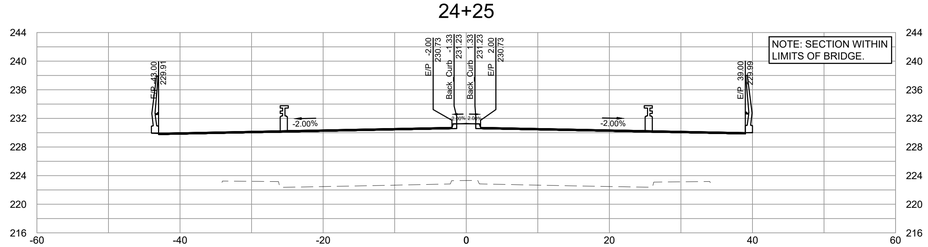
24+50



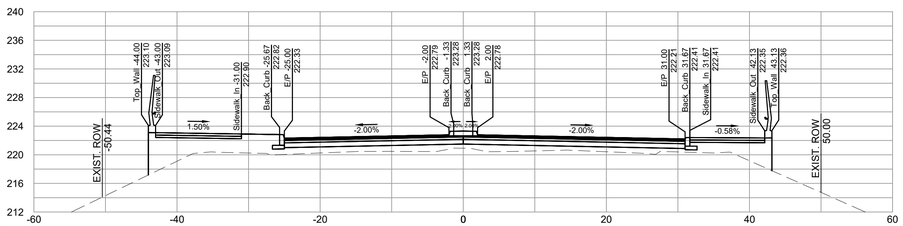
23+00



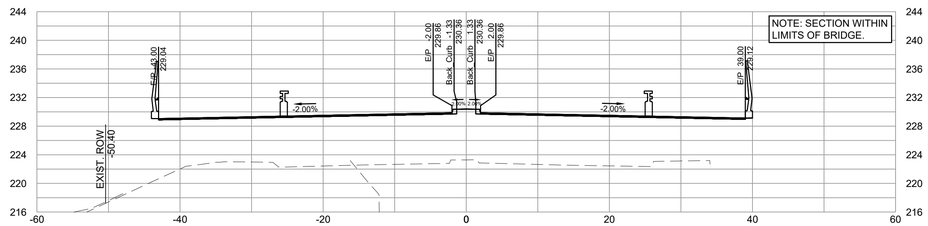
24+25



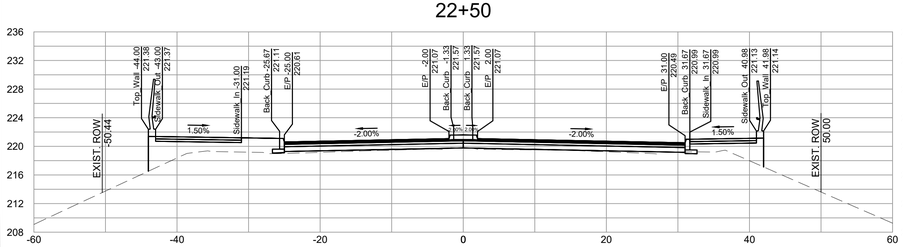
22+75



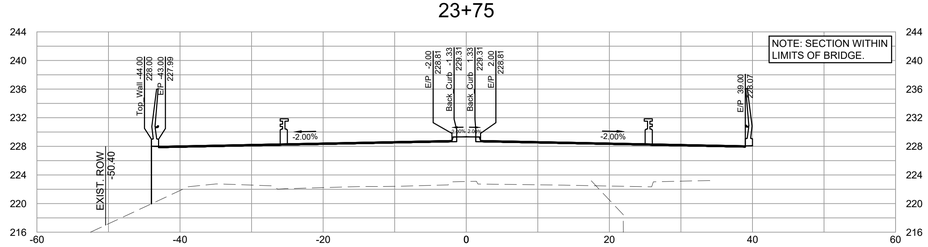
24+00



22+50



23+75



NOTE: SEE STRUCTURAL PLANS FOR BRIDGE AND RETAINING WALL DESIGN.

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... K. O'MEARA
DESIGNED BY: ..... A. SETTLEMYER

L:\2019\6983-AABB_Roadway\DWG\Sheet\CD\6983-203C-R6.60x.dwg | Plotted on 3/24/2025 1:59 PM | by Anna Settlemyer

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

-LEGEND:-

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

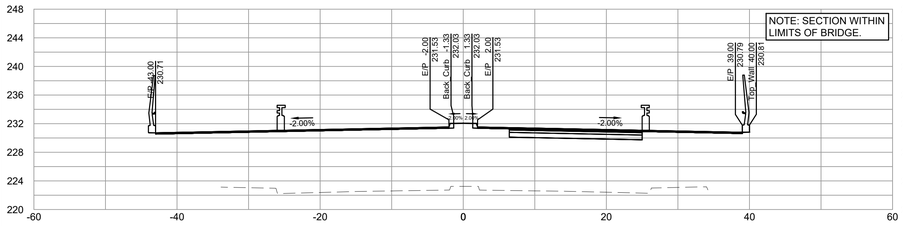
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

CROSS SECTIONS

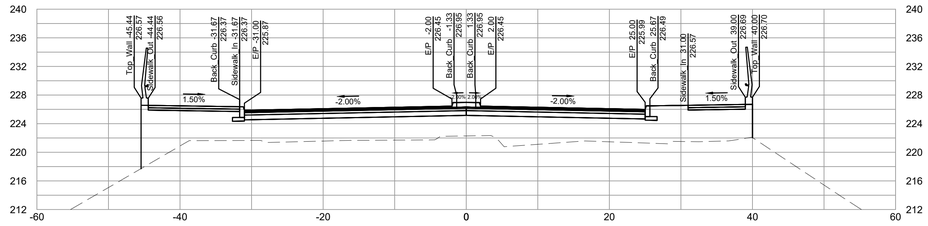
DESIGN BY: ACS	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: ACS		HORIZ. DATUM: NAD83 VA-S	HORIZ. 1" = 10'	03/25/2025	R6.02	
CHECKED BY: EPO		VERT. DATUM: NAVD88	VERT. N/A			

30% PLANS
NOT FOR CONSTRUCTION

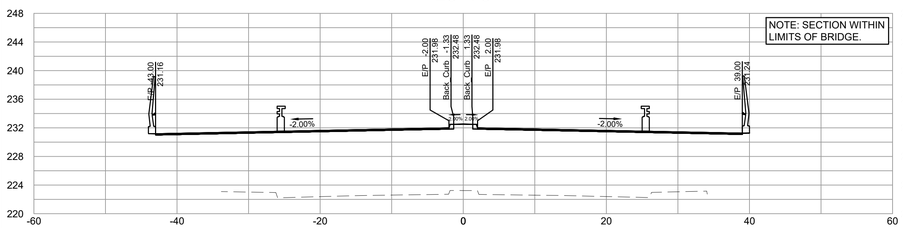
26+00



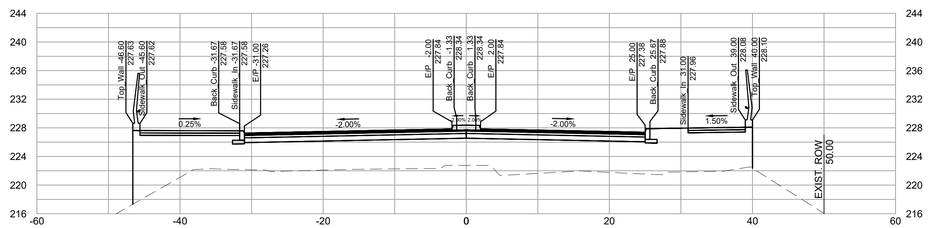
27+25



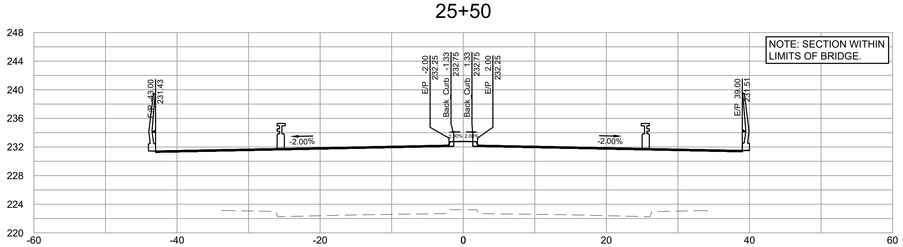
25+75



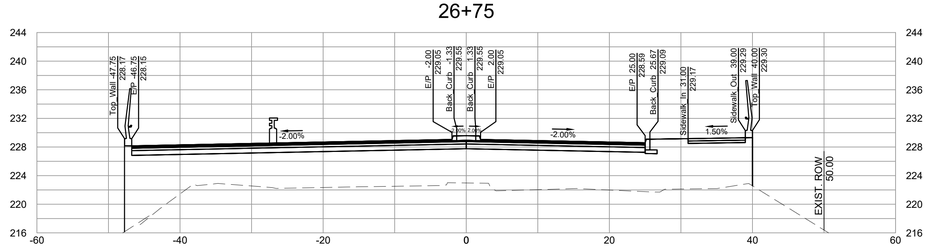
27+00



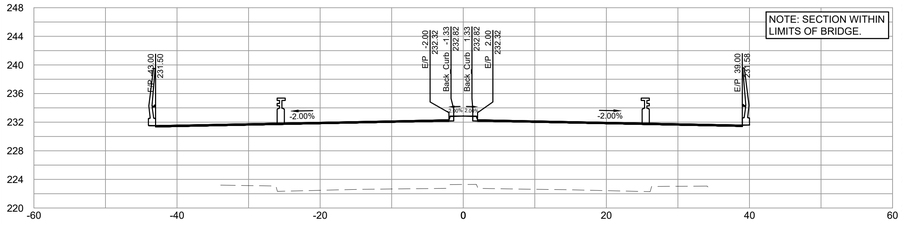
25+50



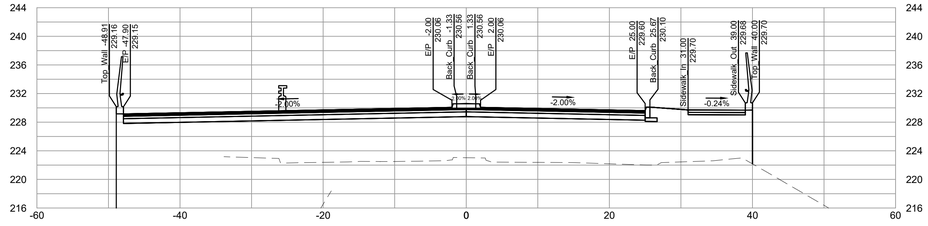
26+75



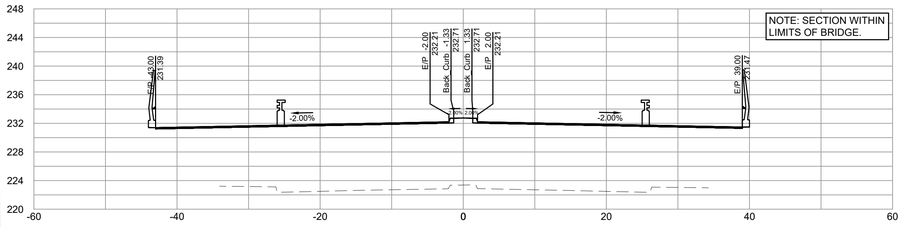
25+25



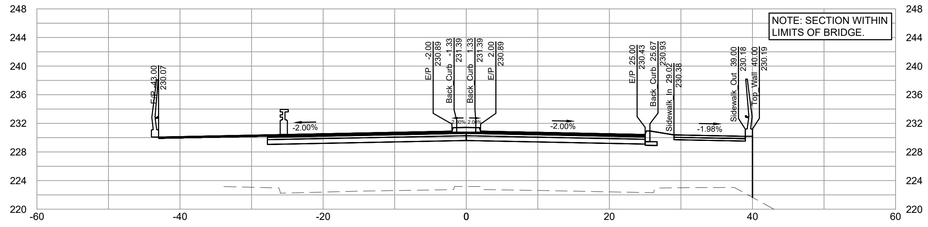
26+50



25+00



26+25



NOTE: SEE STRUCTURAL PLANS FOR BRIDGE AND RETAINING WALL DESIGN.

SURVEYED BY: .....TIMMONS GROUP.....
SUPERVISED BY: .....K. O'MEARA.....
DESIGNED BY: .....A. SETTLEMYER.....

L:\2036\6863-AABB_Roadway\DWG\Sheet\CD\6863-203C-R6.60x.dwg | Plotted on 3/24/2025 1:59 PM | by Anna Settlemyer

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

-LEGEND:-

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

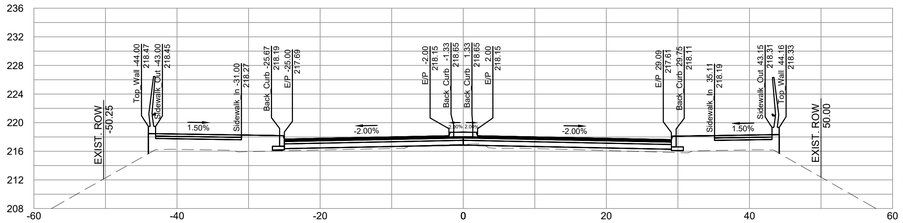
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

CROSS SECTIONS

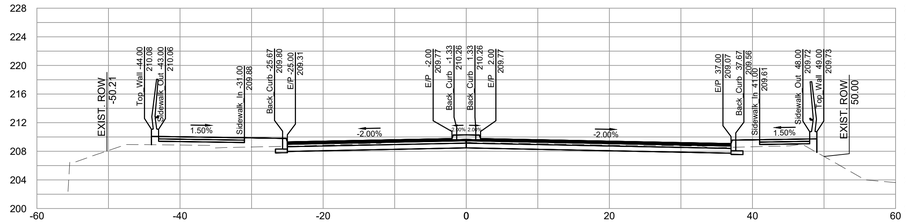
DESIGN BY: ACS DRAWN BY: ACS CHECKED BY: EPO	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET R6.03	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

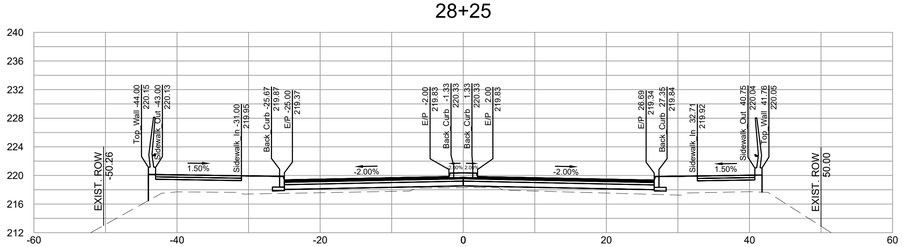
28+50



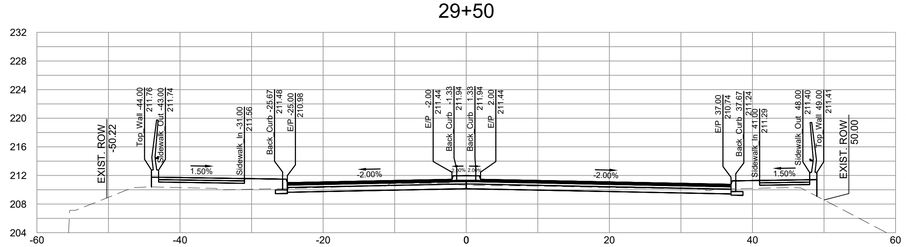
29+75



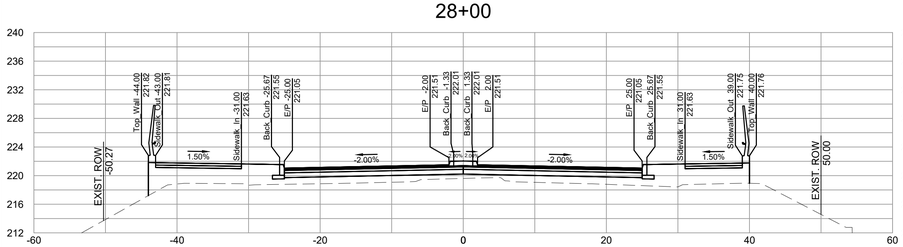
28+25



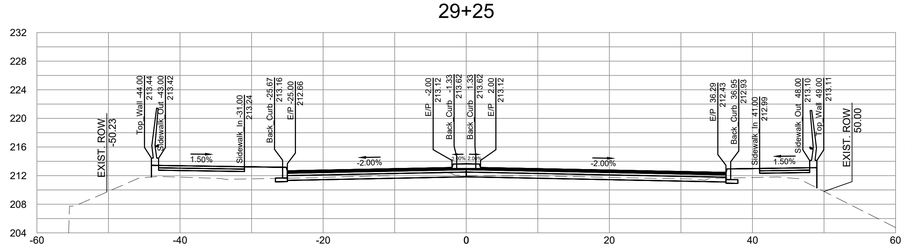
29+50



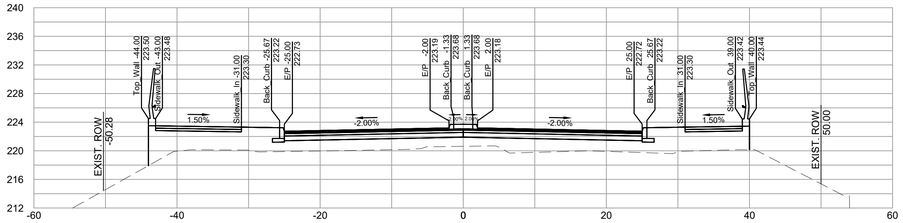
28+00



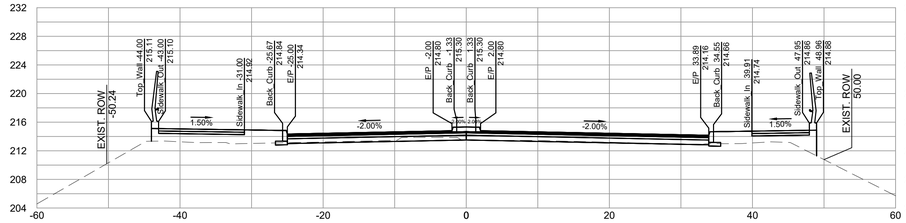
29+25



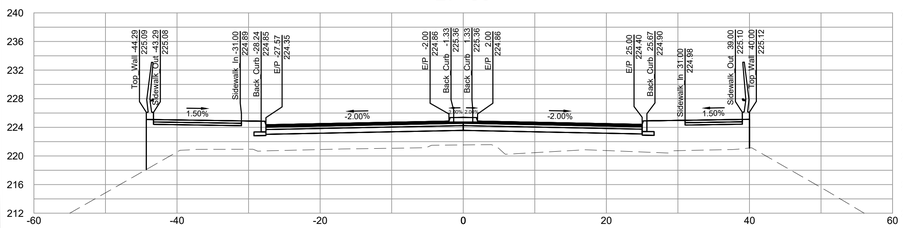
27+75



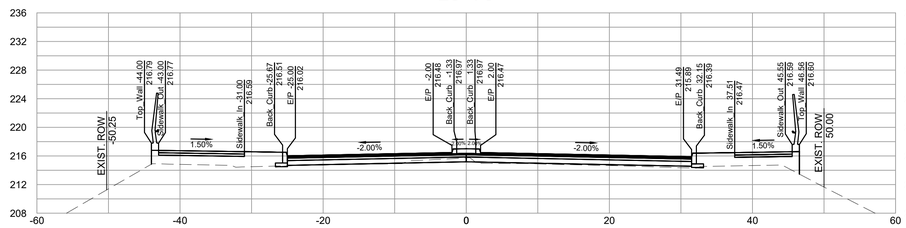
29+00



27+50



28+75



NOTE: SEE STRUCTURAL PLANS FOR BRIDGE AND RETAINING WALL DESIGN.

SURVEYED BY:.....TIMMONS GROUP
SUPERVISED BY:.....K. O'MEARA
DESIGNED BY:.....A. SETTLEMYER

L:\20\86\863-AABB_Roadway\DWG\Sheet\CD\86863-203C-R6.60x.dwg | Plotted on 3/24/2025 1:59 PM | by Anna Settlemyer

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

-LEGEND:-

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

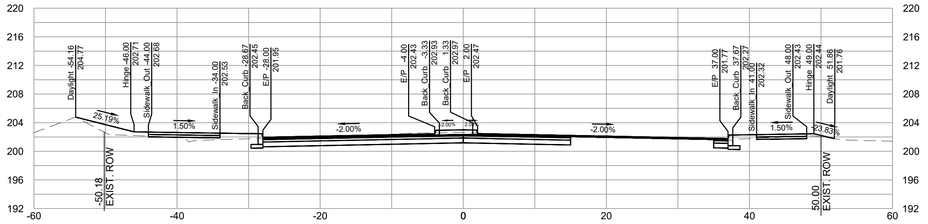
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

CROSS SECTIONS

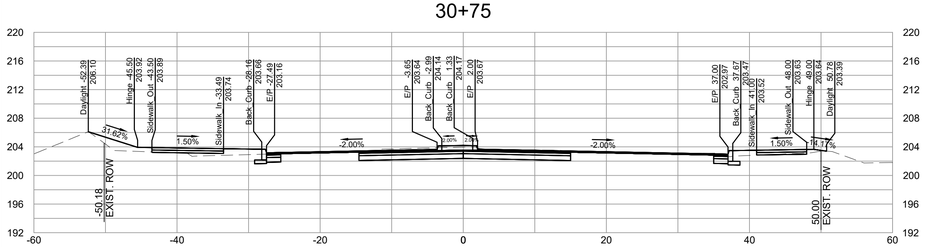
DESIGN BY: ACS DRAWN BY: ACS CHECKED BY: EPO	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET R6.04	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

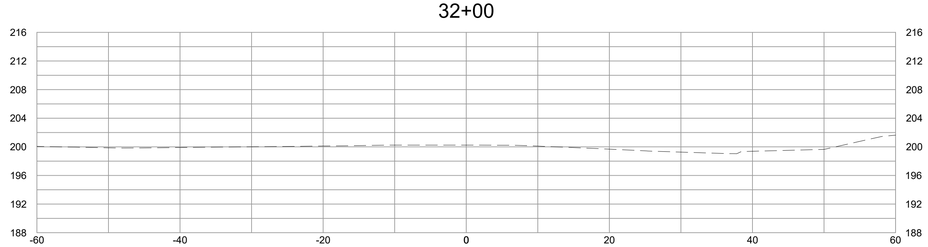
31+00



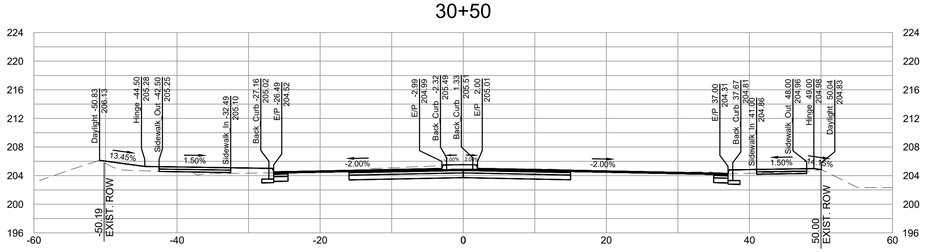
30+75



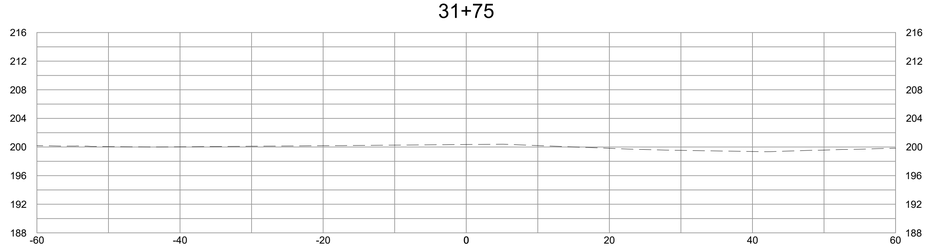
32+00



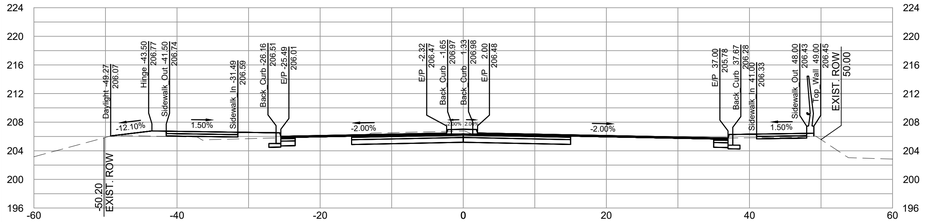
30+50



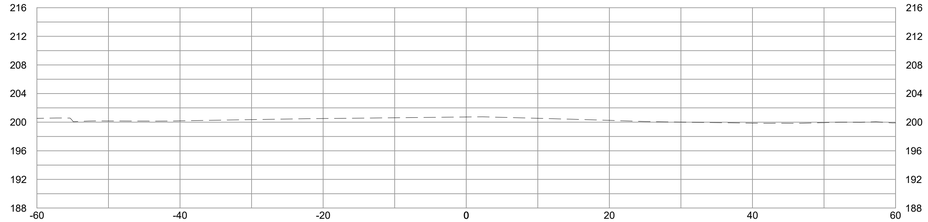
31+75



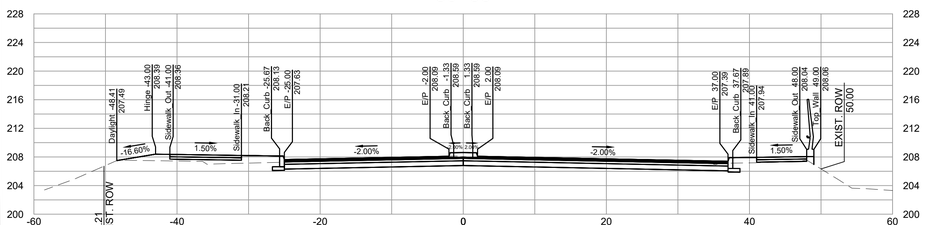
30+25



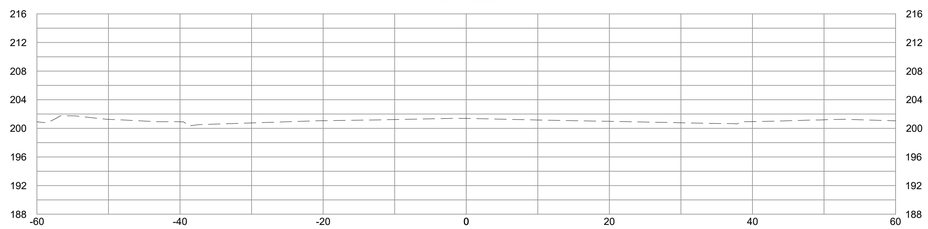
31+50



30+00



31+25



NOTE: SEE STRUCTURAL PLANS FOR BRIDGE AND RETAINING WALL DESIGN.

SURVEYED BY:.....TIMMONS GROUP.....
SUPERVISED BY:.....K. O'MEARA.....
DESIGNED BY:.....A. SETTLEMYER.....

L:\20395963-AABB_Roadway\DWG\Sheet\CD\59863-203C-R6.60x.dwg | Plotted on 3/24/2025 1:59 PM | by Anna Settlemyer

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August , 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

-LEGEND:-

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

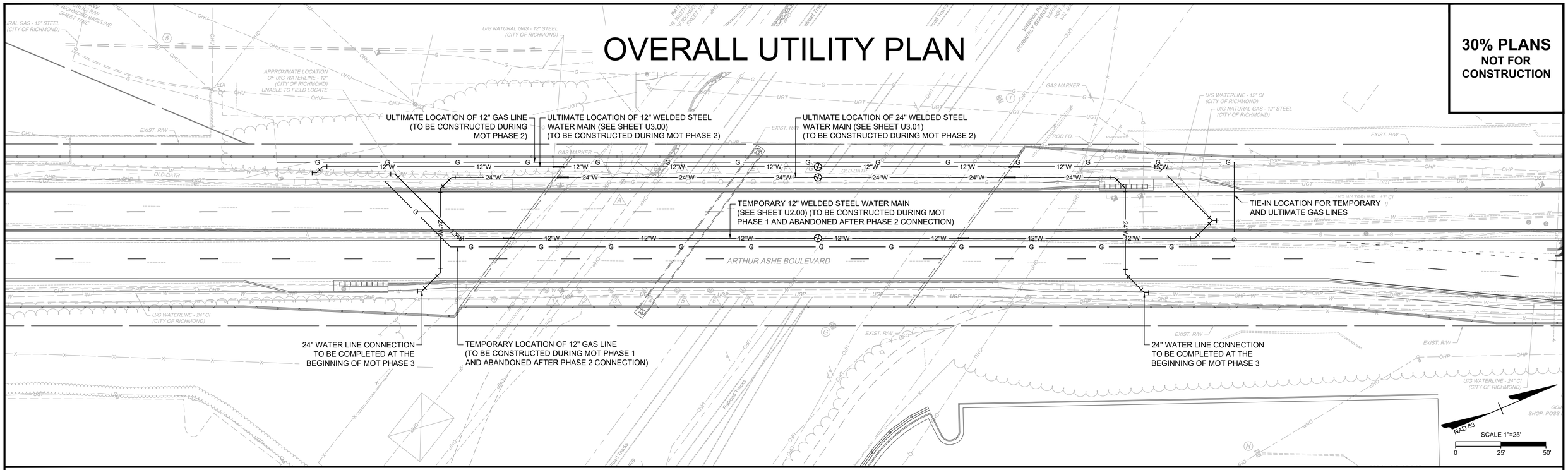
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

CROSS SECTIONS

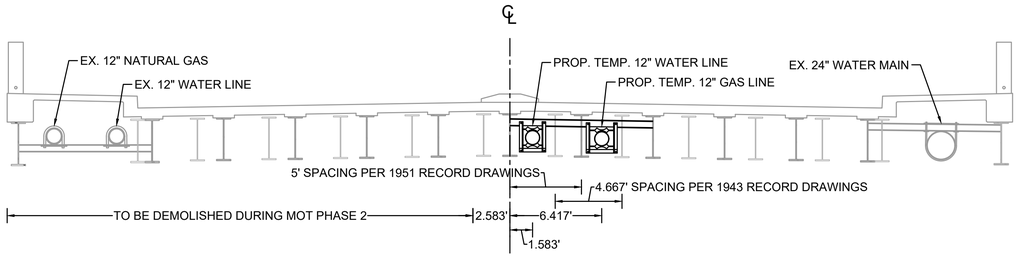
DESIGN BY: ACS	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: ACS		HORIZ. DATUM: NAD83 VA-S	HORIZ. 1" = 10'	03/25/2025	R6.05	
CHECKED BY: EPO		VERT. DATUM: NAVD88	VERT. N/A			

OVERALL UTILITY PLAN

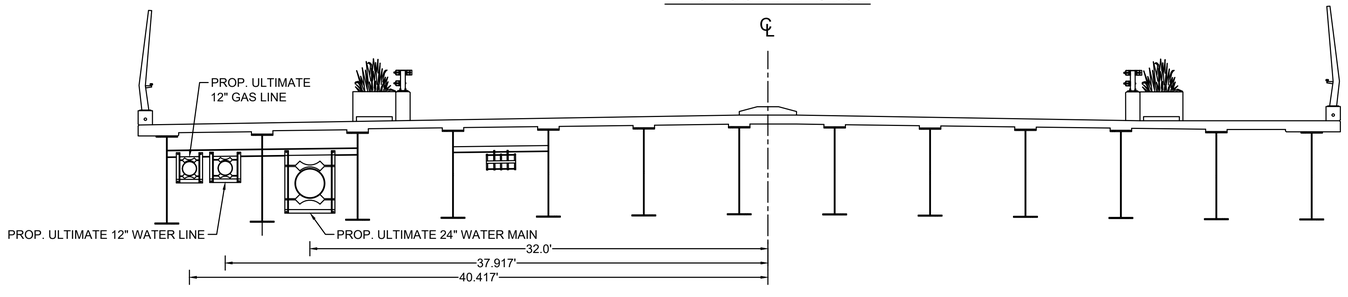
30% PLANS
NOT FOR CONSTRUCTION



EXISTING BRIDGE



PROPOSED BRIDGE



SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: K. TURNER
DESIGNED BY: S. HUANG

L:\2026\69863-AABB_Roadway\DWG\Sheet\CD\69863-203C-U1.00x.dwg | Plotted on 3/24/2025 8:03 AM | by Anna Sattlemyer

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

--LEGEND:--

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

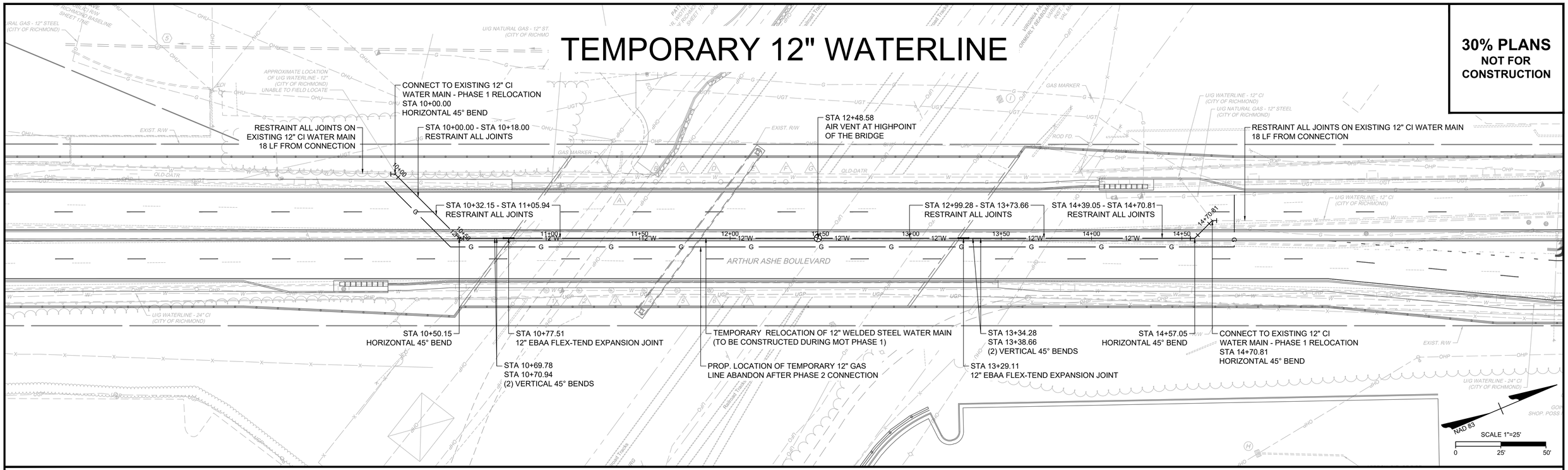
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

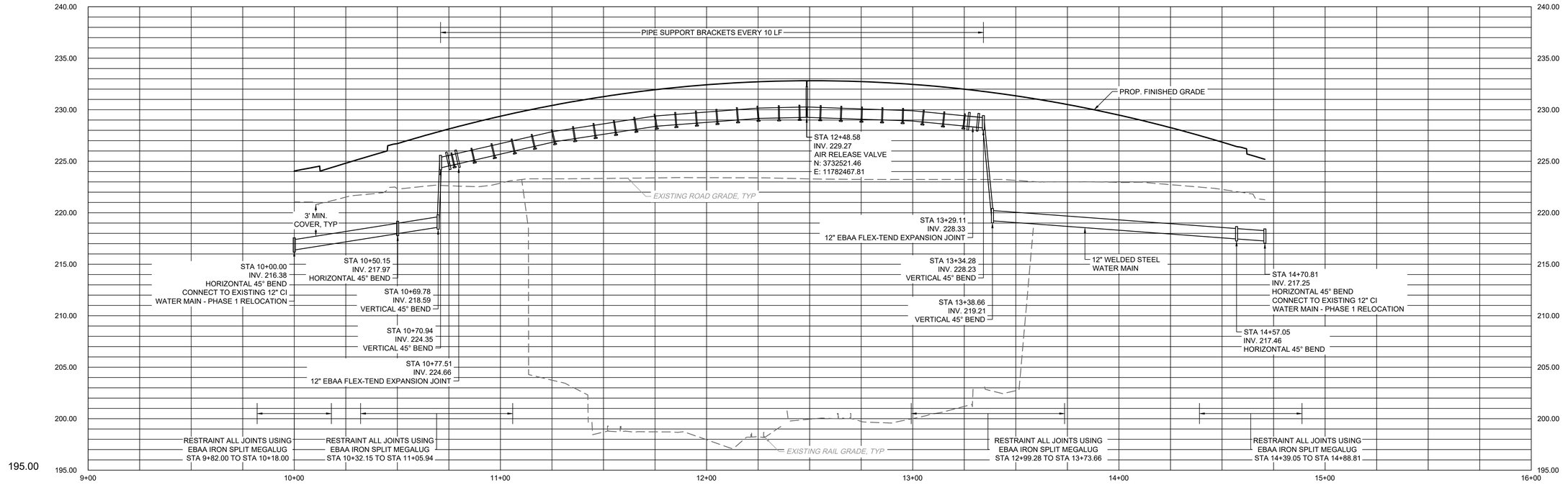
OVERALL UTILITY PLAN

DESIGN BY: GH	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: GH		HORIZ. DATUM: NAD83 VA-S	HORIZ. 1" = 25'	03/25/2025	U1.00	
CHECKED BY: KT		VERT. DATUM: NAVD88	VERT. N/A			

TEMPORARY 12" WATERLINE

30% PLANS
NOT FOR CONSTRUCTION





SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... K. TURNER
DESIGNED BY: ..... G. HUANG

L:\20\69\863-AABB_Roadway\DWG\Sheet\CD\69863-203C-U1-60x.dwg | Plotted on 3/24/2025 10:51 AM | by Gina Huang

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

--LEGEND:--

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

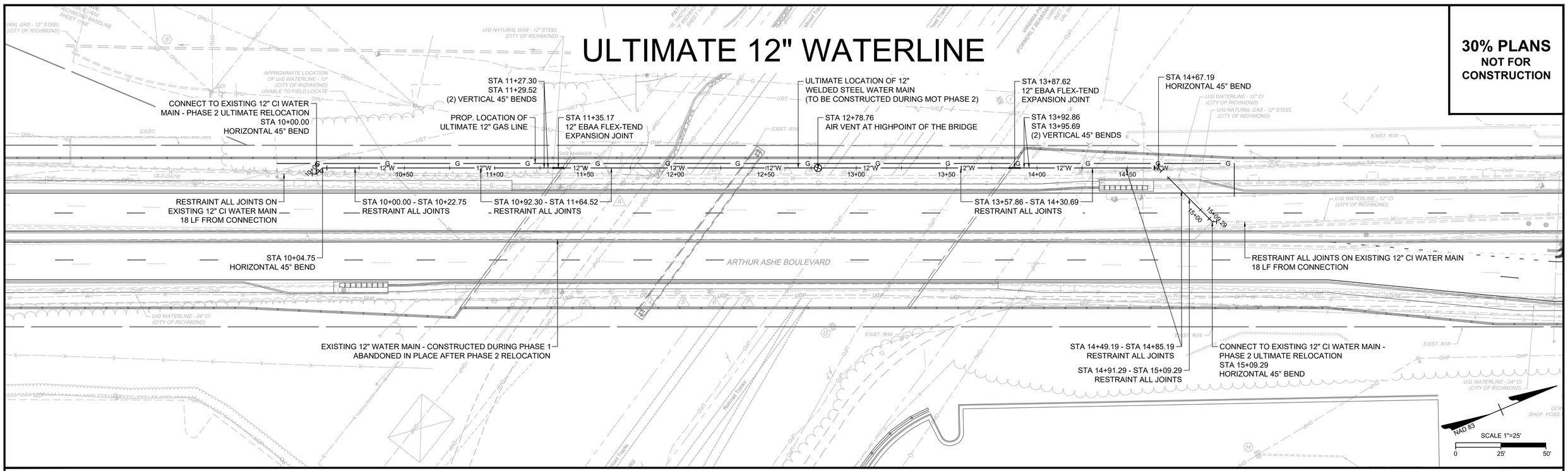
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

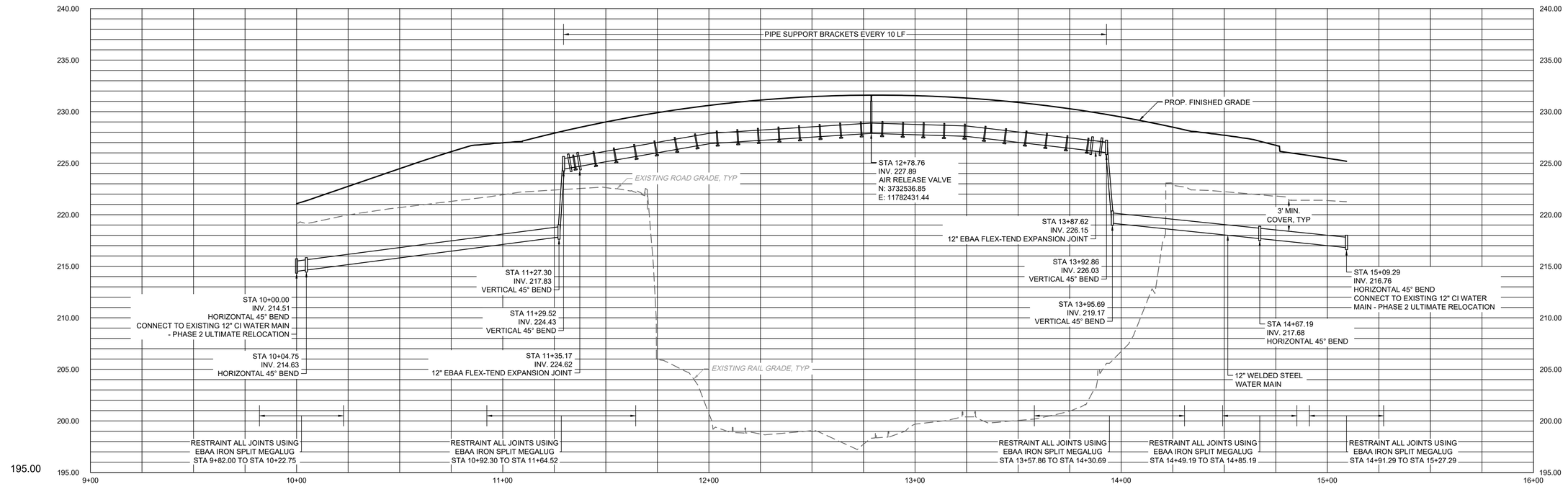
WATERLINE PLAN & PROFILE

DESIGN BY: GH	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: GH		HORZ. DATUM: NAD83 VA-S	HORIZ. 1" = 25'	03/25/2025	U2.00	
CHECKED BY: KT		VERT. DATUM: NAVD88	VERT. 1" = 5'			

ULTIMATE 12" WATERLINE

30% PLANS
NOT FOR CONSTRUCTION





SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... K. TURNER
DESIGNED BY: ..... G. HUANG

L:\20\95983-AABB_Roadway\DWG\Sheet\CD\95983-203C-U1-80v.dwg | Plotted on 3/24/2025 10:35 AM | by Gina Huang

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

--LEGEND:--

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

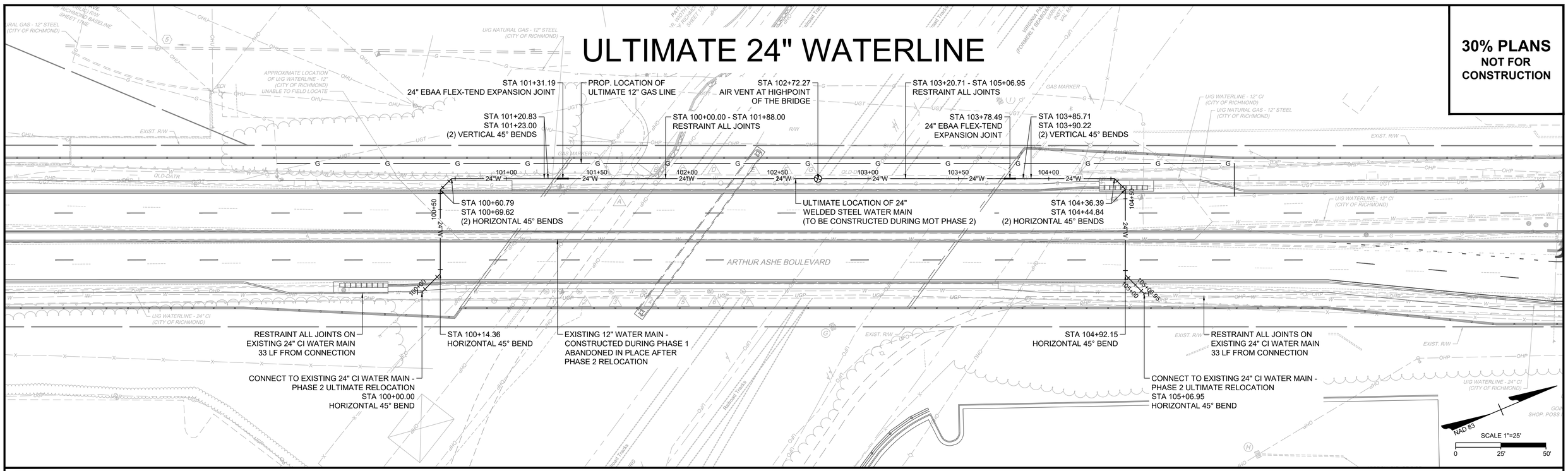
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

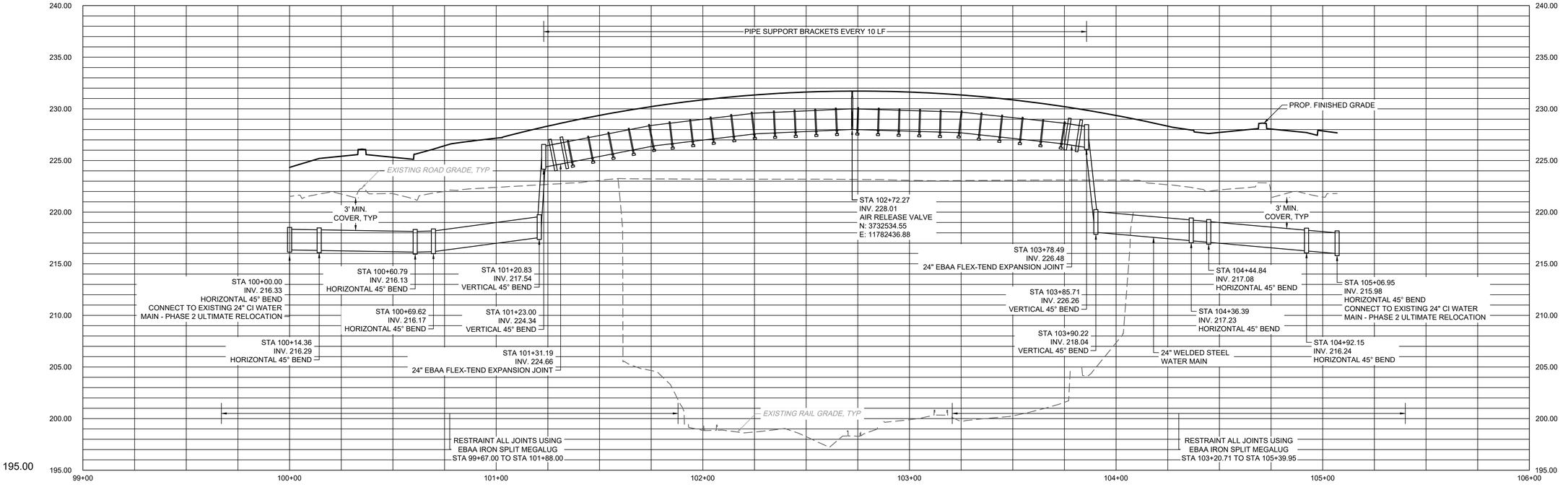
WATERLINE PLAN & PROFILE

DESIGN BY: GH	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: GH		HORIZ. DATUM: NAD83 VA-S	HORIZ. 1" = 25'	03/25/2025	U3.00	
CHECKED BY: KT		VERT. DATUM: NAVD88	VERT. 1" = 5'			

ULTIMATE 24" WATERLINE

30% PLANS
NOT FOR CONSTRUCTION





SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... K. TURNER
DESIGNED BY: ..... G. HUANG

L:\20\95983-AABB_Roadway\DWG\Sheet\CD\95983-203C-U1-80x.dwg | Plotted on 3/24/2025 10:49 AM | by Gina Huang

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

Existing Curb
- Curb & Gutter
- Sidewalk
- Basin
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (Gravity)
- Sanitary Sewer (Force Main)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

--LEGEND:--

Existing Curb Cut Ramp
- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole

Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

Proposed Conc. Sidewalk
- Brick Sidewalk

Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole

Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

WATERLINE PLAN & PROFILE

DESIGN BY: GH	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: GH		HORIZ. DATUM: NAD83 VA-S	HORIZ. 1" = 25'	03/25/2025	U3.01	
CHECKED BY: KT		VERT. DATUM: NAVD88	VERT. 1" = 5'			

30% PLANS
NOT FOR CONSTRUCTION

L1.10, L2.00, L3.00

L1.11, L2.01, L3.01

L1.12, L2.02, L3.02

NAD 83

SCALE 1"=50'

0 50' 100'

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

OVERALL BRIDGE MATERIAL PLAN

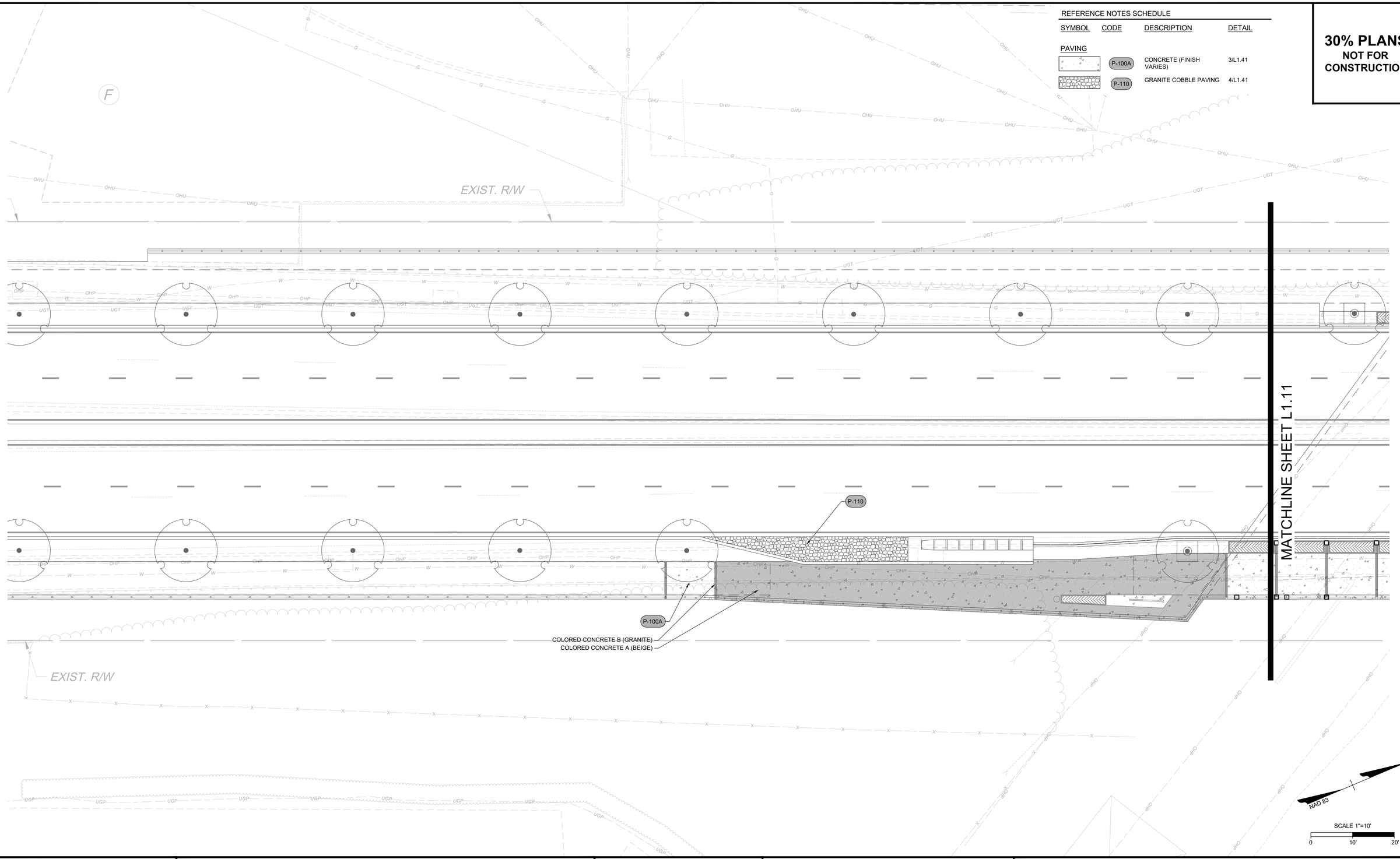
DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 50' VERT. N/A	DATE 03/25/2025	SHEET L1.00	DRAWING NO.

L:\20369863-AABB_Roadway\DWG\Sheet\CD\69863-310L-L1.00.dwg | Plotted on 3/24/2025 12:03 PM | by Sam Haush

30% PLANS
NOT FOR CONSTRUCTION

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
PAVING			
	P-100A	CONCRETE (FINISH VARIES)	3/L1.41
	P-110	GRANITE COBBLE PAVING	4/L1.41



SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\2026\6863-AABB_Roofmw\DWG\Sheet\CD\6863-310L-L1.10r.dwg | Plotted on 3/24/2025 12:05 PM | by Sam Haush

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

BRIDGE MATERIAL PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L1.10	DRAWING NO.

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
PAVING			
	P-100A	CONCRETE (FINISH VARIES)	3/L1.41
	P-110	GRANITE COBBLE PAVING	4/L1.41

30% PLANS
NOT FOR CONSTRUCTION

EXIST. R/W

P-100A

OVERHEARD CANOPY SUPER STRUCTURE BASE, TYP., SEE L2.00 SERIES

COLUMN BASE, TYP., SEE L2.00 SERIES

COLORED CONCRETE B (GRANITE)
COLORED CONCRETE A (BEIGE)

MATCHLINE SHEET L1.10

COLUMN BASE, TYP., SEE L2.00 SERIES

COLORED CONCRETE B (GRANITE)
COLORED CONCRETE A (BEIGE)

P-100A

OVERHEARD CANOPY SUPER STRUCTURE BASE, TYP., SEE L2.00 SERIES

MATCHLINE SHEET L1.12

EXIST. R/W

Railroad Tracks

NAD 83

SCALE 1"=10'

0 10' 20'

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\20\69863-AABB_Roadway\DWG\Sheet\C\69863-310-L1.10v.dwg | Plotted on 3/24/2025 12:05 PM | by Sam Haush

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

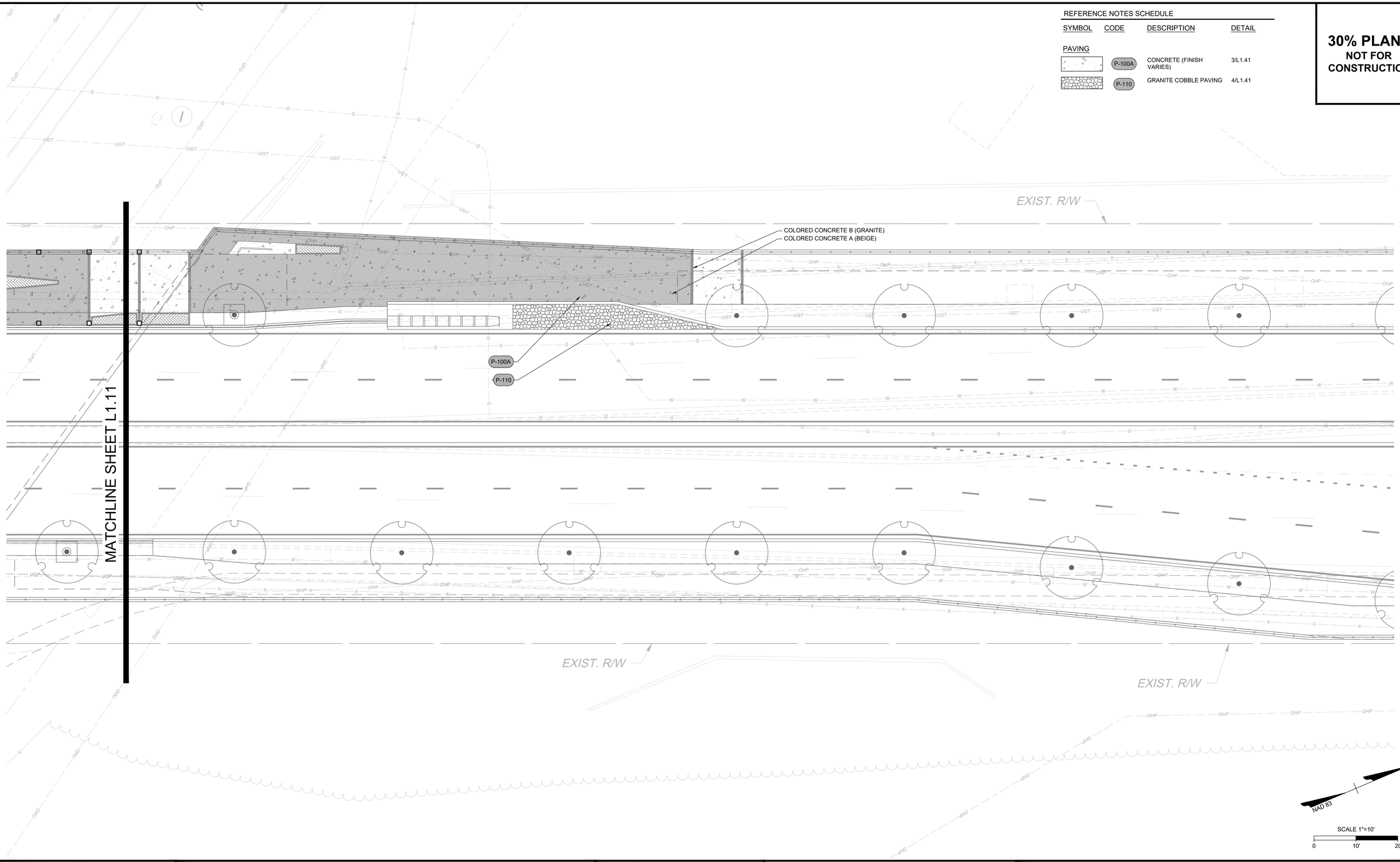
BRIDGE MATERIAL PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L1.11	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
PAVING			
	P-100A	CONCRETE (FINISH VARIES)	3/L1.41
	P-110	GRANITE COBBLE PAVING	4/L1.41



SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\20\69863-AABB_Roadway\DWG\Sheet\C\69863-310-L1.10v.dwg | Plotted on 3/24/2025 12:05 PM | by Sam Haleh

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

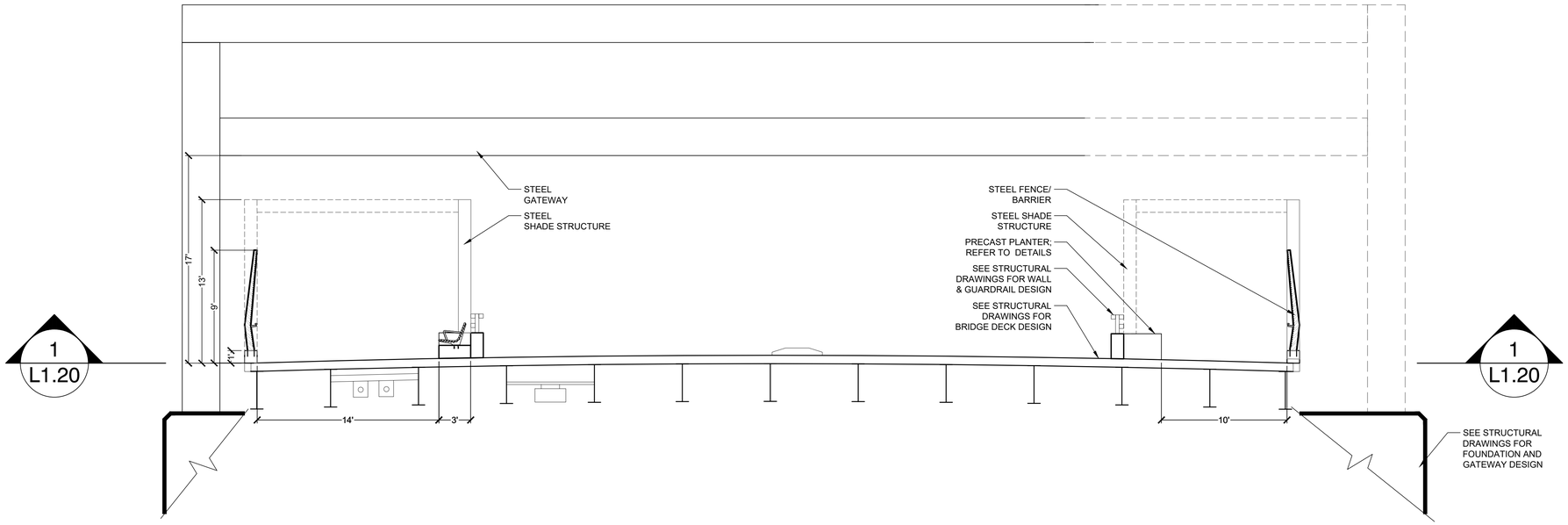
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

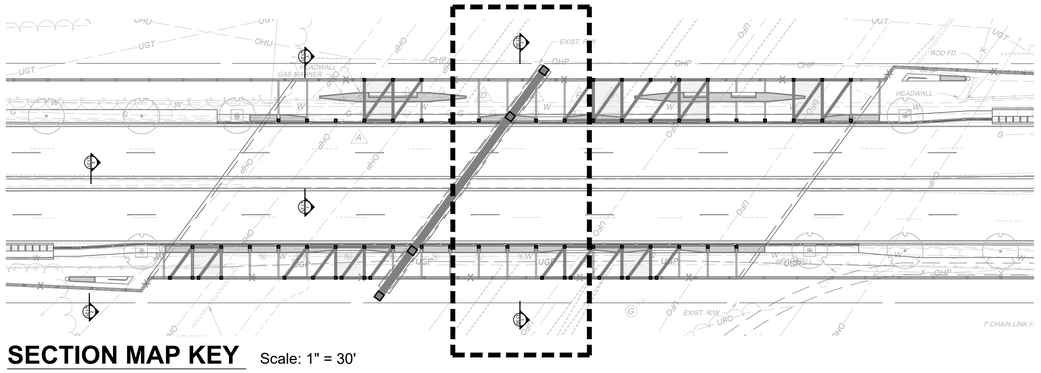
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT
BRIDGE MATERIAL PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L1.12	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION



SECTION 1: Scale: 1" = 5'



SECTION MAP KEY Scale: 1" = 30'

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: S. HAUSH

L:\20\69\6983-AABB_Roadway\DWG\Sheet\CD\69863-310L-L1.20x.dwg | Plotted on 3/24/2025 12:39 PM | by Ryan Elder

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

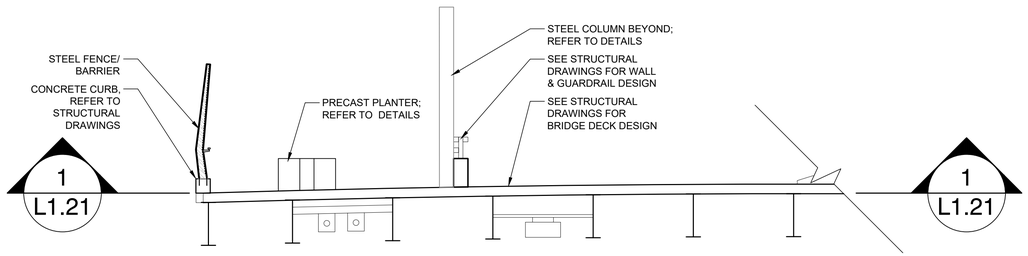
TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

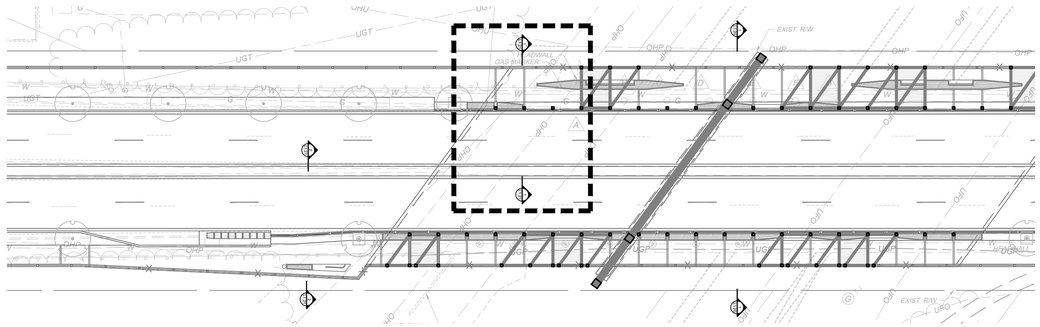
SITE SECTIONS

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 25' VERT. N/A	DATE 03/25/2025	SHEET L1.20	DRAWING NO.

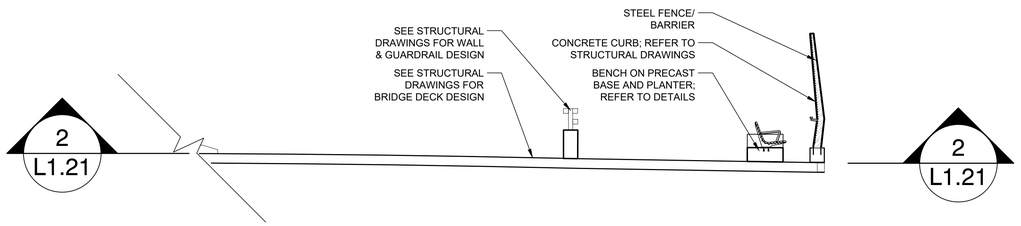
30% PLANS
NOT FOR CONSTRUCTION



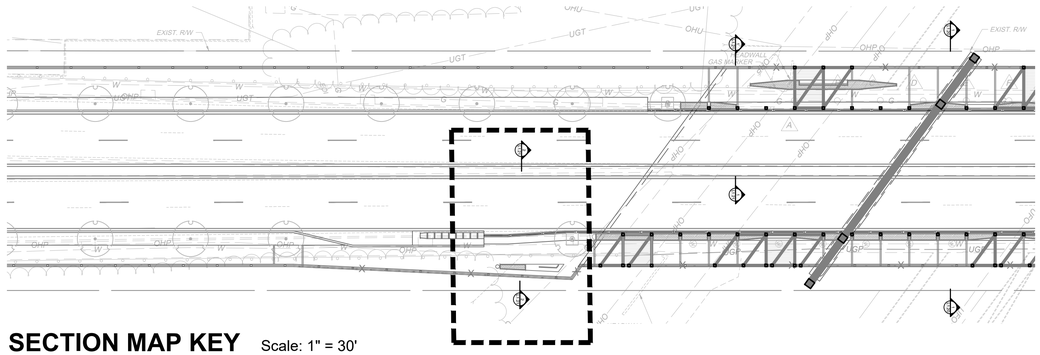
SECTION 1: Scale: 1" = 5'



SECTION MAP KEY Scale: 1" = 30'



SECTION 2: Scale: 1" = 5'



SECTION MAP KEY Scale: 1" = 30'

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY, + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\2024\99863-AABB_Rodney\DWG\Sheet\CD\99863-310-L1.20x.dwg | Plotted on 3/24/2025 12:38 PM | by Ryan Elder

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

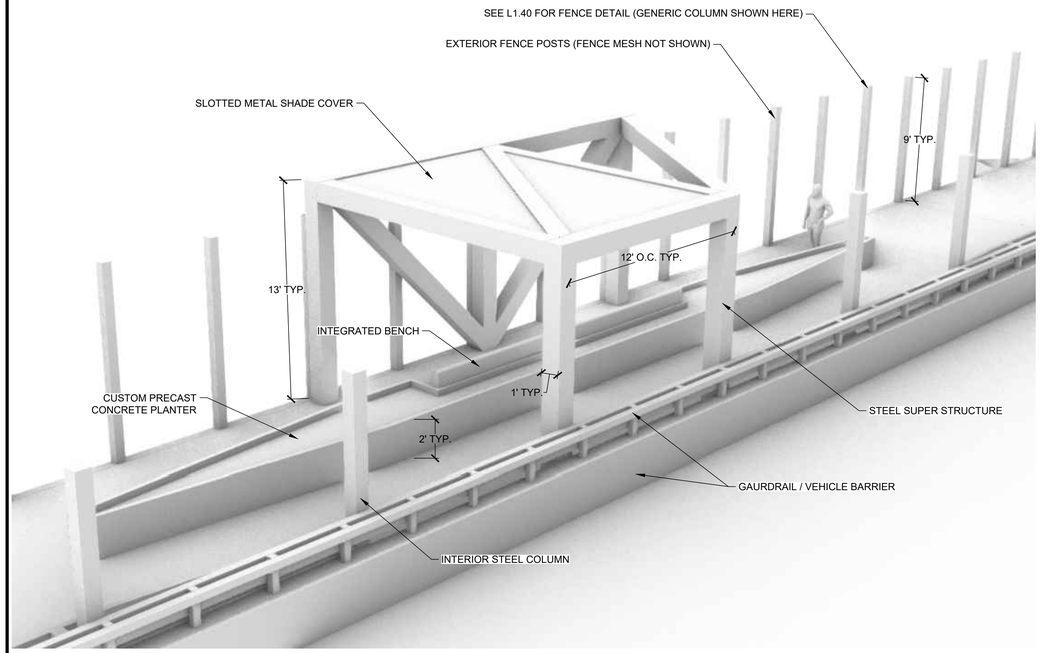
TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

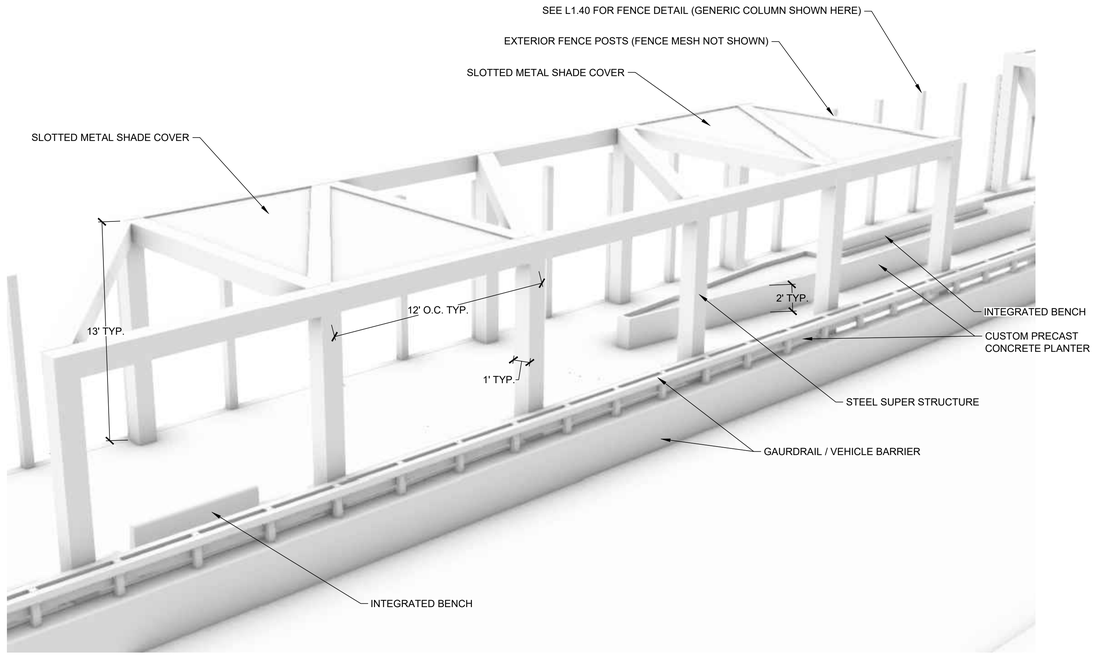
SITE SECTIONS

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 25' VERT. N/A	DATE 03/25/2025	SHEET L1.21	DRAWING NO.

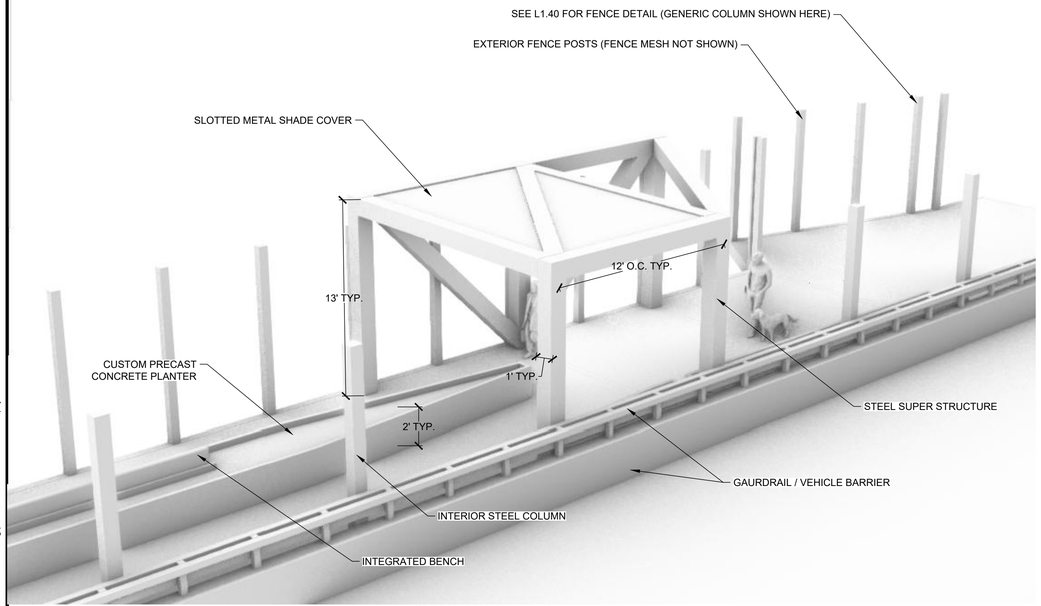
30% PLANS
NOT FOR CONSTRUCTION



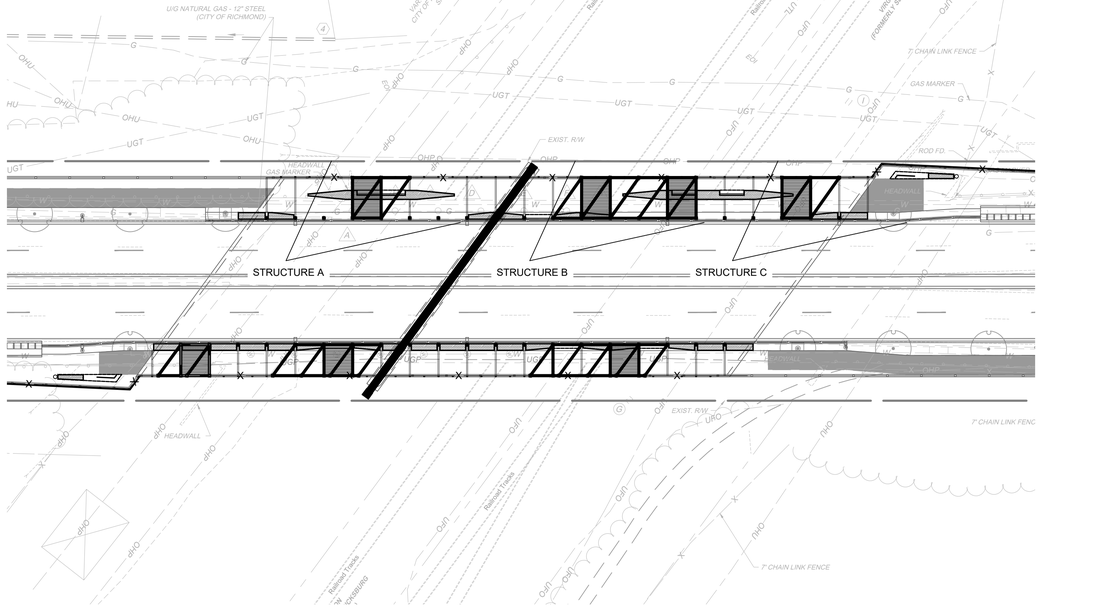
CANOPY SUPER STRUCTURE A | SOUTHWEST CORNER OF BRIDGE



CANOPY SUPER STRUCTURE B | CENTER WEST SIDE OF BRIDGE



CANOPY SUPER STRUCTURE C | NORTHWEST CORNER OF BRIDGE



CANOPY SUPER STRUCTURE | MAP KEY 1" = 30'

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\2026\26863-AABB_Roadway\DWG\Sheet\CD\26863-310L-L1.30c.dwg | Plotted on 3/24/2025 12:10 PM | by Sam Haush

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

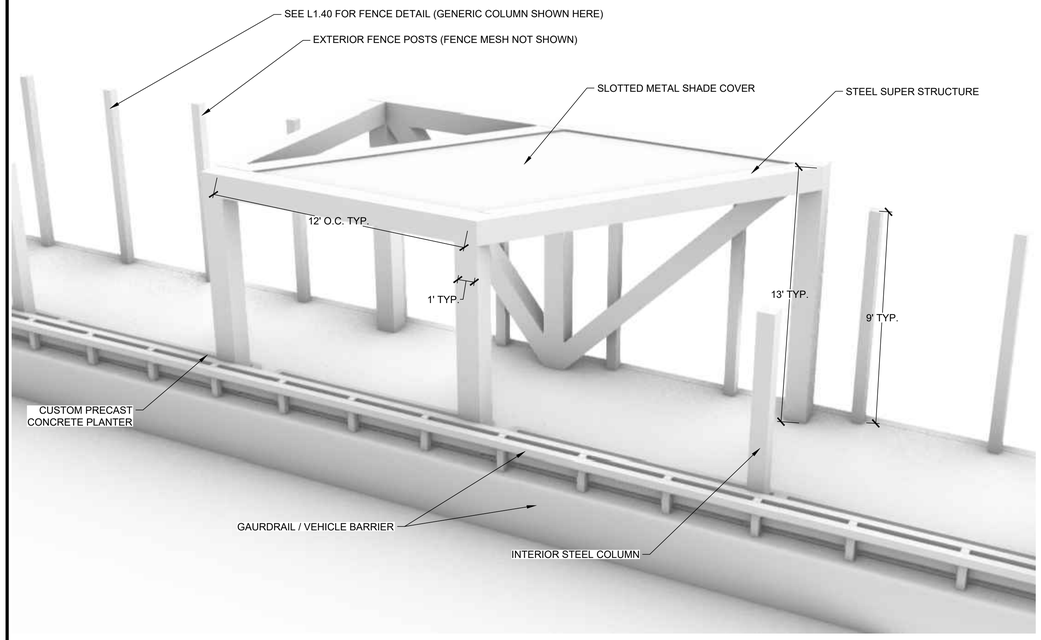
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

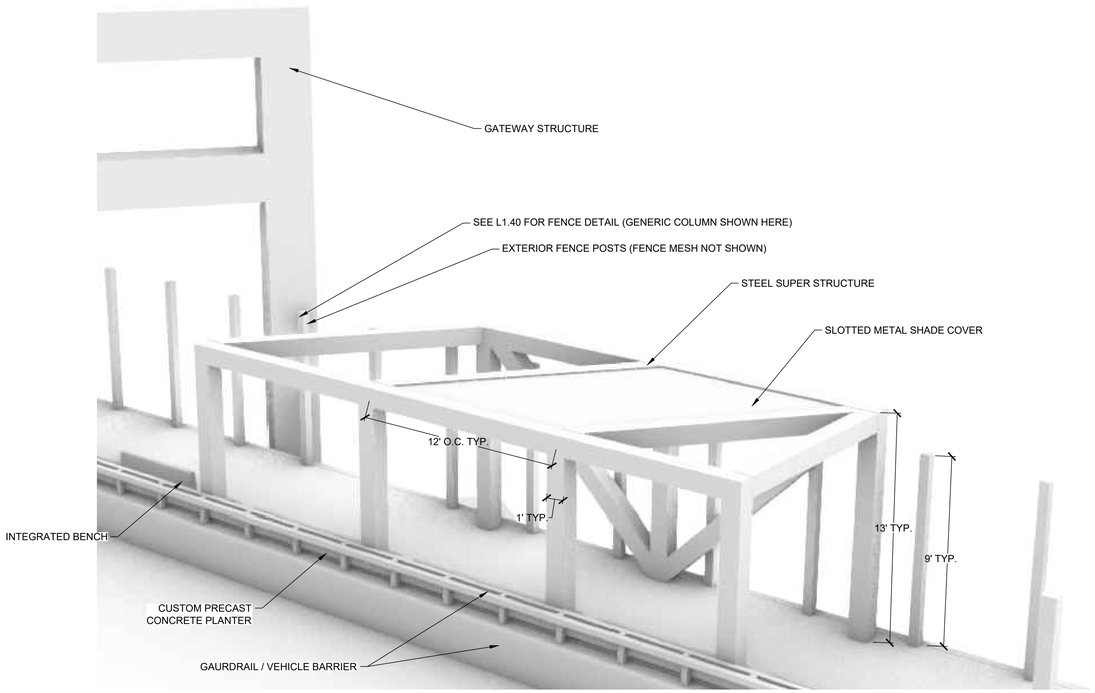
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT
SITE STRUCTURES

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SMW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. N/A VERT. N/A	DATE 03/25/2025	SHEET L1.30	DRAWING NO.

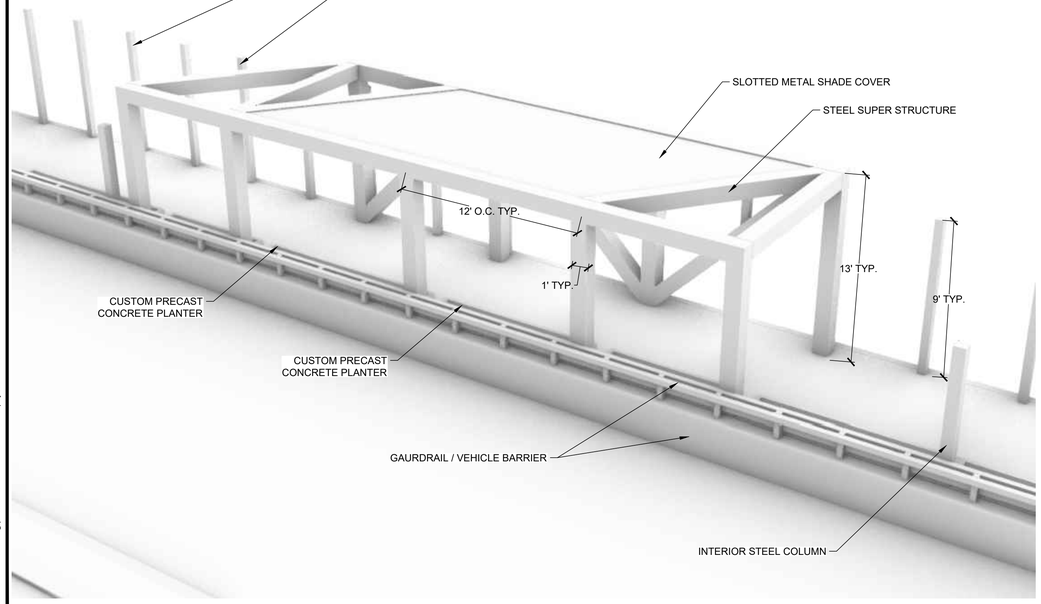
30% PLANS
NOT FOR CONSTRUCTION



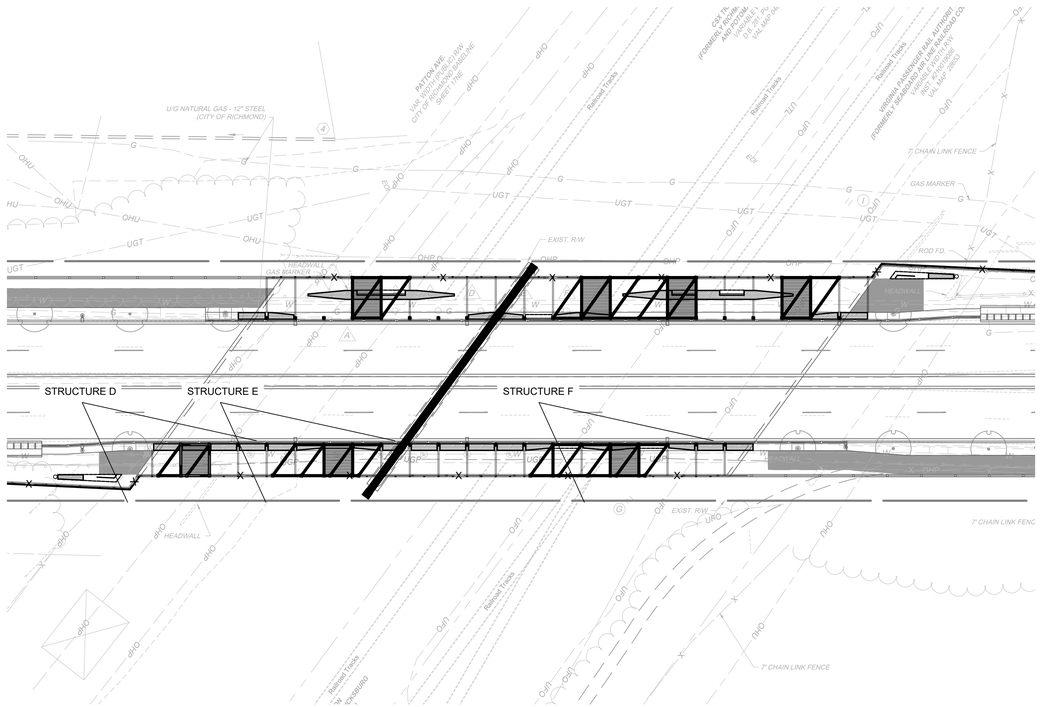
CANOPY SUPER STRUCTURE D | SOUTHEAST CORNER OF BRIDGE



CANOPY SUPER STRUCTURE E | CENTER EAST SIDE OF BRIDGE



CANOPY SUPER STRUCTURE F | NORTHEAST CORNER OF BRIDGE



CANOPY SUPER STRUCTURE | MAP KEY 1" = 30'

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\20\69863-AABB_Roadway\DWG\Sheet\C\69863-310-L-L1.30r.dwg | Plotted on 3/24/2025 12:10 PM | by Sam Haush

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT
SITE STRUCTURES

DESIGN BY: SDH	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: SDH		HORIZ. DATUM: NAD83 VA-S	HORIZ. N/A	03/25/2025	L1.31	
CHECKED BY: SWW		VERT. DATUM: NAVD88	VERT. N/A			

30% PLANS
NOT FOR CONSTRUCTION

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
FENCE				
	F-101	EXTERIOR PEDESTRIAN FENCE	779 LF	1/L1.41
FURNISHINGS				
	FN-101	STEEL SHADE STRUCTURE	994 LF	
	FN-102	STEEL GATEWAY STRUCTURE (REFER TO STRUCTURAL)	120 LF	
	FN-103	SLOTTED STEEL SHADE CANOPY	1,284 SF	
SITE FURNISHINGS				
	S-101	TRASH RECEPTACLE	2	1/L3.10
	S-102	TREE GRATE	11	3/L3.10
	S-103	RAISED PRECAST CONCRETE PLANTER	30	
	S-110A	CUSTOM BENCH A	2	2/L3.10
	S-110B	CUSTOM BENCH B	1	2/L3.10
	S-110C	CUSTOM BENCH C	4	2/L3.10
	S-110D	CUSTOM BENCH D	2	2/L3.10

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
PAVING				
	P-100A	CONCRETE (FINISH VARIES)	11,208 SF	3/L1.41
	P-110	GRANITE COBBLE PAVING	450 SF	4/L1.41

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... Y. S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\20\69\6863-AABB_Roadway\DWG\Sheet\C\69863-310L-L1.40x.dwg | Plotted on 3/24/2025 12:39 PM | by Ryan Elder

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

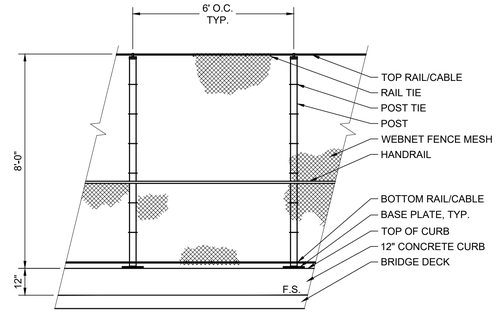
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT
SITE SCHEDULE

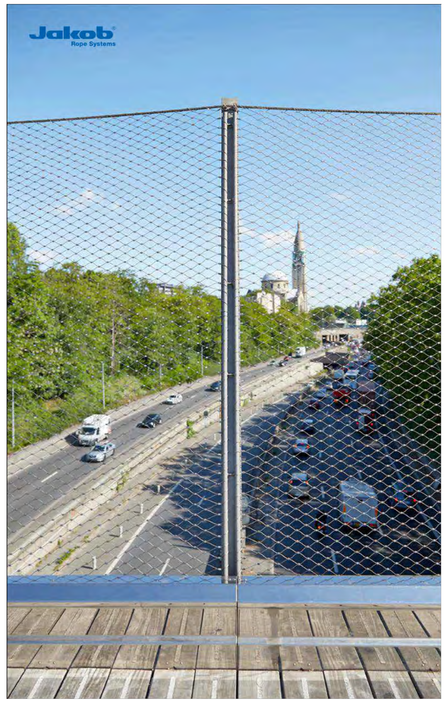
DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 25' VERT. N/A	DATE 03/25/2025	SHEET L1.40	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION



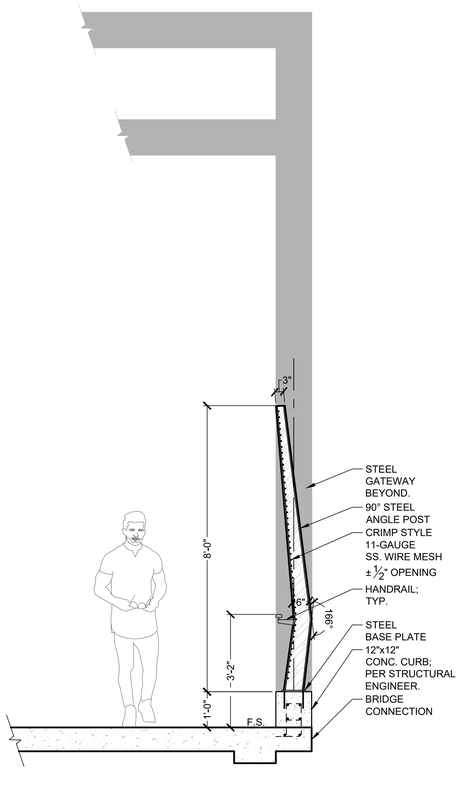
5 BARRIER FENCE - ELEVATION

3/8" = 1'-0"



3 BRIDGE BARRIER FENCE - DESIGN INTENT

NTS



1 BARRIER FENCE

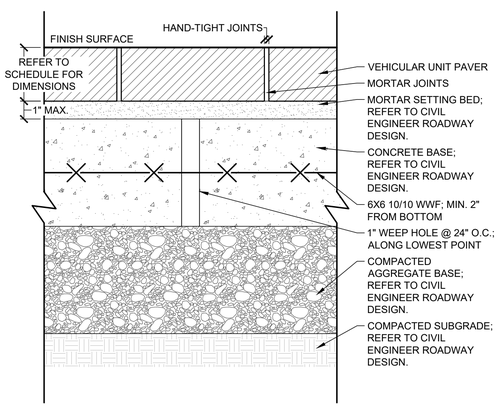
1/2" = 1'-0"



NOTE:
CERNER CORPORATION INNOVATION CAMPUS ENTRANCE - KANSAS CITY, MO
BOMANITE TOPPINGS SYSTEMS - MICRO-TOP XT& MICRO-TOP ST

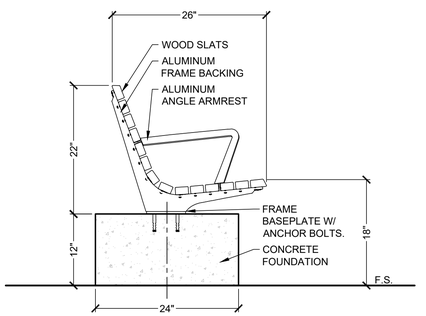
6 CONCRETE FINISH (PAINT OR WASH)

NTS



4 VEHICULAR COBBLE PAVER MORTAR SET ON RIGID BASE

3" = 1'-0"



NOTE : SEE DETAIL 2/L3.10 FOR BENCH CUT SHEET

2 WOOD SLAT BENCH - WALL MOUNT

1" = 1'-0"

SURVEYED BY: .....TIMMONS GROUP.....
SUPERVISED BY: .....S. WILEY + M. COLBY.....
DESIGNED BY: .....S. HAUSH.....

L:\2019\69863-AABB_Roadway\DWG\Sheet\CD\69863-310L-L1.40x.dwg | Plotted on 3/24/2025 12:39 PM | by Ryan Elder

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT
SITE DETAILS

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SNW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 25' VERT. N/A	DATE 03/25/2025	SHEET L1.41	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

EXIST. R/W

80' O.C. TYP.

MATCHLINE SHEET L2.01

12' O.C.
8'
11.5'
16' O.C.
10.83'
16.05'
6.9'
5.62'
5'
2'
10.83'
13.75'
3.9'
22.5'
13'
14'
5'
5'

EXIST. R/W

NAD 83

SCALE 1"=10'
0 10' 20'

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\20\69\863-AABB_Roadway\DWG\Sheet\CD\69863-310-L2.00X.dwg | Plotted on 3/24/2025 12:13 PM | by Sam Haush

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

BRIDGE LAYOUT PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L2.00	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

EXIST. R/W

MATCHLINE SHEET L2.00

MATCHLINE SHEET L2.02

25' | 4.74' | 12' O.C | 20.81' O.C. | 8.26' | 13' | 20.99' | 3' | 49' | 17' | 40' | 10' | 5.75' | 15.85' | 1' | 17.25' | 15.85' | 7.25' | 1' | 61' | 1' | 3.9' | 4' | 4.98'

5' | 1.86' | 9.19' | 5' | 3' | 2'

66.58' | 120.42'

13' | 12' O.C. TYP. | 37' | 16' O.C. | 14' | 6.9' | 5' | 5.62' | 3.9' | 22.5' | 12' O.C. TYP. | 37' | 3' | 20.53' | 3' | 3' | 12' O.C. | 11' | 12' O.C. TYP. | 49' | 16' O.C. | 49'

EXIST. R/W

Railroad Tracks

NAD 83

SCALE 1"=10'
0 10' 20'

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\20\69863-AABB_Roadway\DWG\Sheet\C\69863-310-L2.00X.dwg | Plotted on 3/24/2025 12:13 PM | by Sam Haush

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

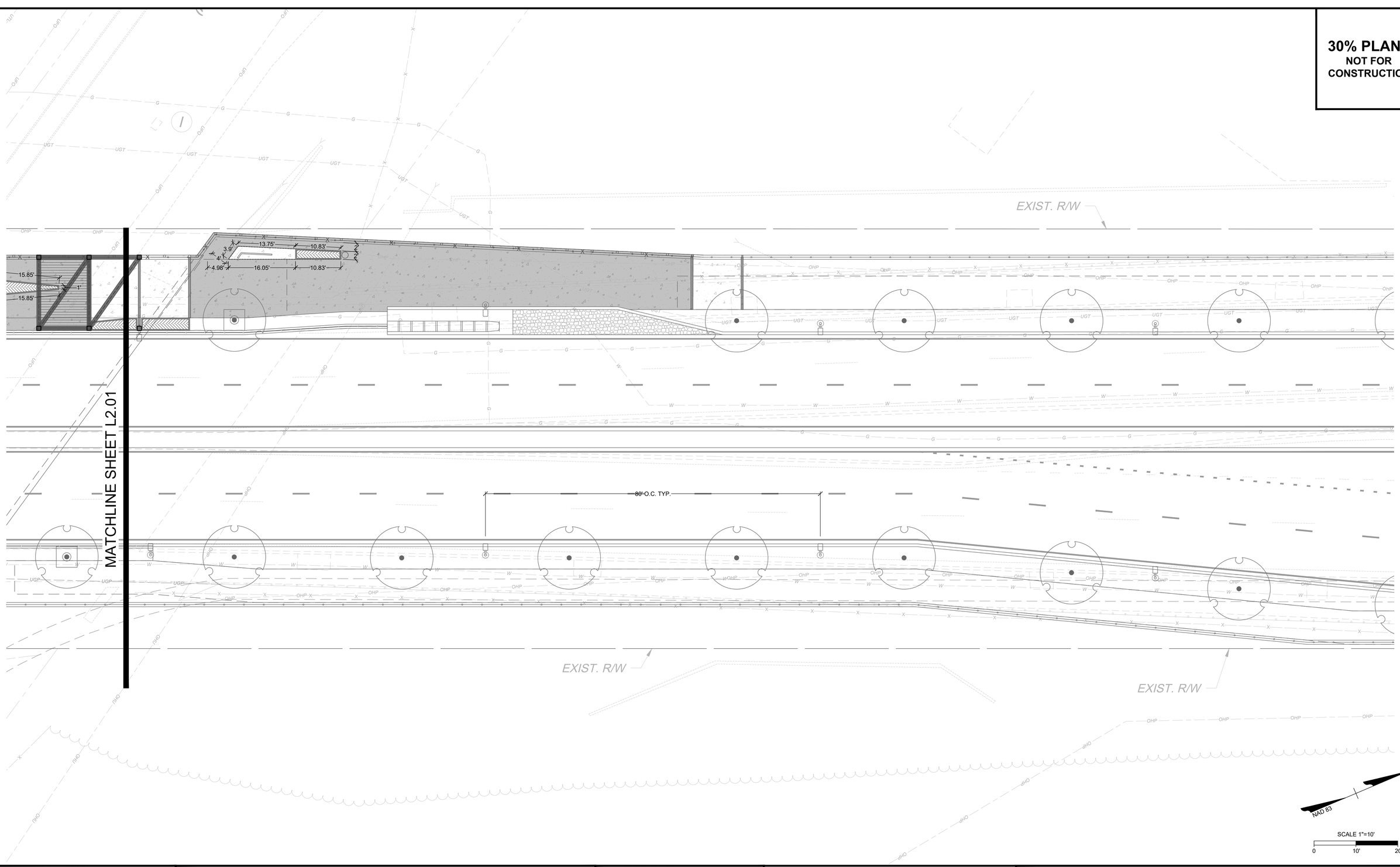
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

BRIDGE LAYOUT PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L2.01	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH



NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT
BRIDGE LAYOUT PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L2.02	DRAWING NO.

L:\20\69863-AABB_Roadway\DWG\Sheet\C\69863-310-L-L2.00X.dwg | Plotted on 3/24/2025 12:13 PM | by Sam Haluh

30% PLANS
NOT FOR CONSTRUCTION

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
FENCE			
	F-101	EXTERIOR PEDESTRIAN FENCE	1/L1.41
FURNISHINGS			
	FN-101	STEEL SHADE STRUCTURE	
	FN-102	STEEL GATEWAY STRUCTURE (REFER TO STRUCTURAL)	
	FN-103	SLOTTED STEEL SHADE CANOPY	

SITE FURNISHINGS

S-101	TRASH RECEPTACLE	1/L3.10
S-102	TREE GRATE	3/L3.10
S-103	RAISED PRECAST CONCRETE PLANTER	
S-110A	CUSTOM BENCH A	2/L3.10
S-110B	CUSTOM BENCH B	2/L3.10
S-110C	CUSTOM BENCH C	2/L3.10
S-110D	CUSTOM BENCH D	2/L3.10

EXIST. R/W

80' O.C. TYP.

MATCHLINE SHEET L3.01

S-102

FN-101

S-103

S-102

F-101

S-101

S-103

S-110A

EXIST. R/W

NAD 83

SCALE 1"=10'

0 10' 20'

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\2026\6863-AABB_Roadway\DWG\Sheet\CD\6863-310L-L3.00X.dwg | Plotted on 3/24/2025 12:16 PM | by Sam Haush

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

BRIDGE FURNISHINGS PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L3.00	DRAWING NO.

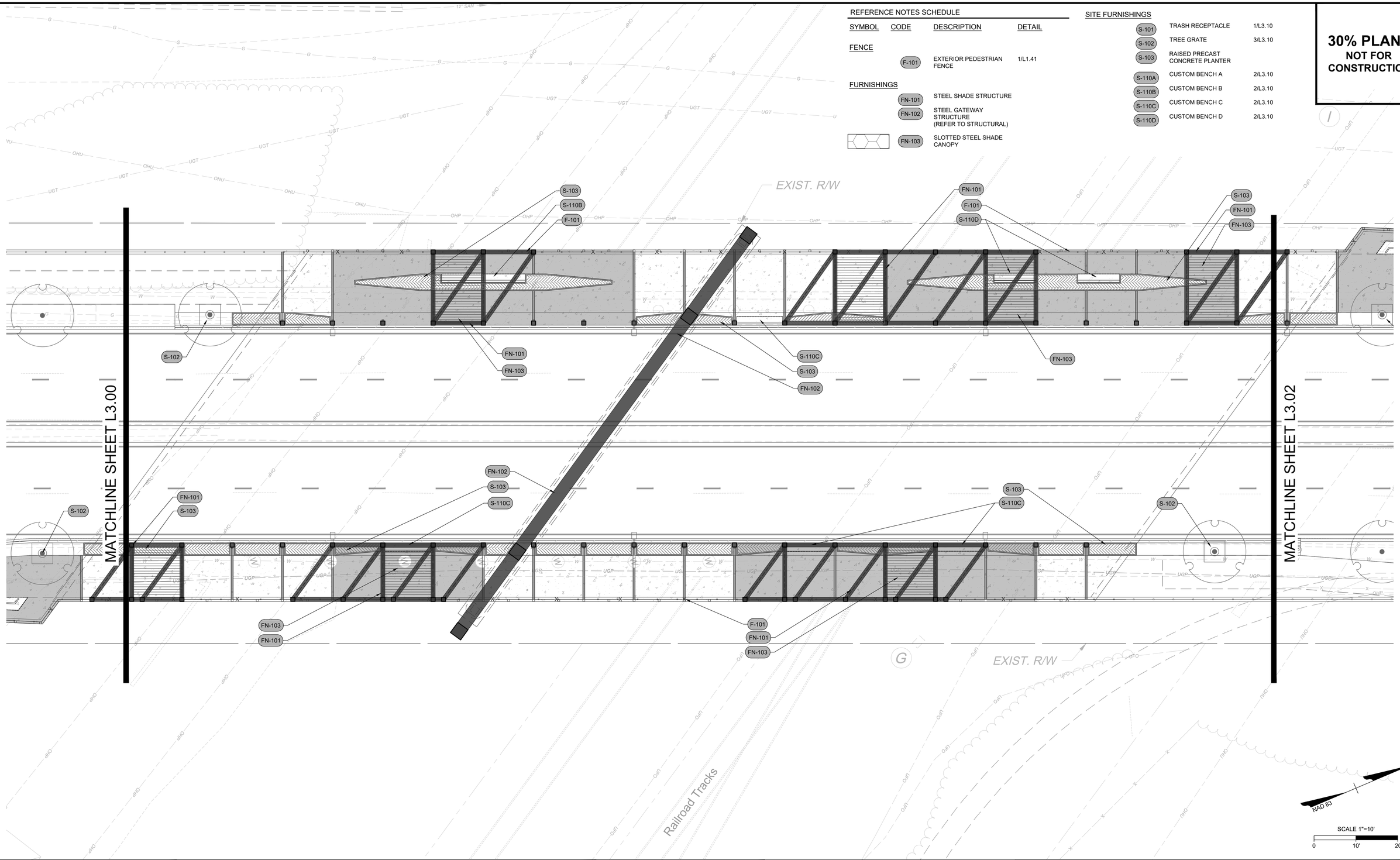
REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
FENCE			
	F-101	EXTERIOR PEDESTRIAN FENCE	1/L1.41
FURNISHINGS			
	FN-101	STEEL SHADE STRUCTURE	
	FN-102	STEEL GATEWAY STRUCTURE (REFER TO STRUCTURAL)	
	FN-103	SLOTTED STEEL SHADE CANOPY	

SITE FURNISHINGS

S-101	TRASH RECEPTACLE	1/L3.10
S-102	TREE GRATE	3/L3.10
S-103	RAISED PRECAST CONCRETE PLANTER	
S-110A	CUSTOM BENCH A	2/L3.10
S-110B	CUSTOM BENCH B	2/L3.10
S-110C	CUSTOM BENCH C	2/L3.10
S-110D	CUSTOM BENCH D	2/L3.10

30% PLANS
NOT FOR CONSTRUCTION



SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\20595863-AABB_Roadway\DWG\Sheet\CD\595863-310L-L3.00X.dwg | Plotted on 3/24/2025 12:16 PM | by Sam Haush

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

BRIDGE FURNISHINGS PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L3.01	DRAWING NO.

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

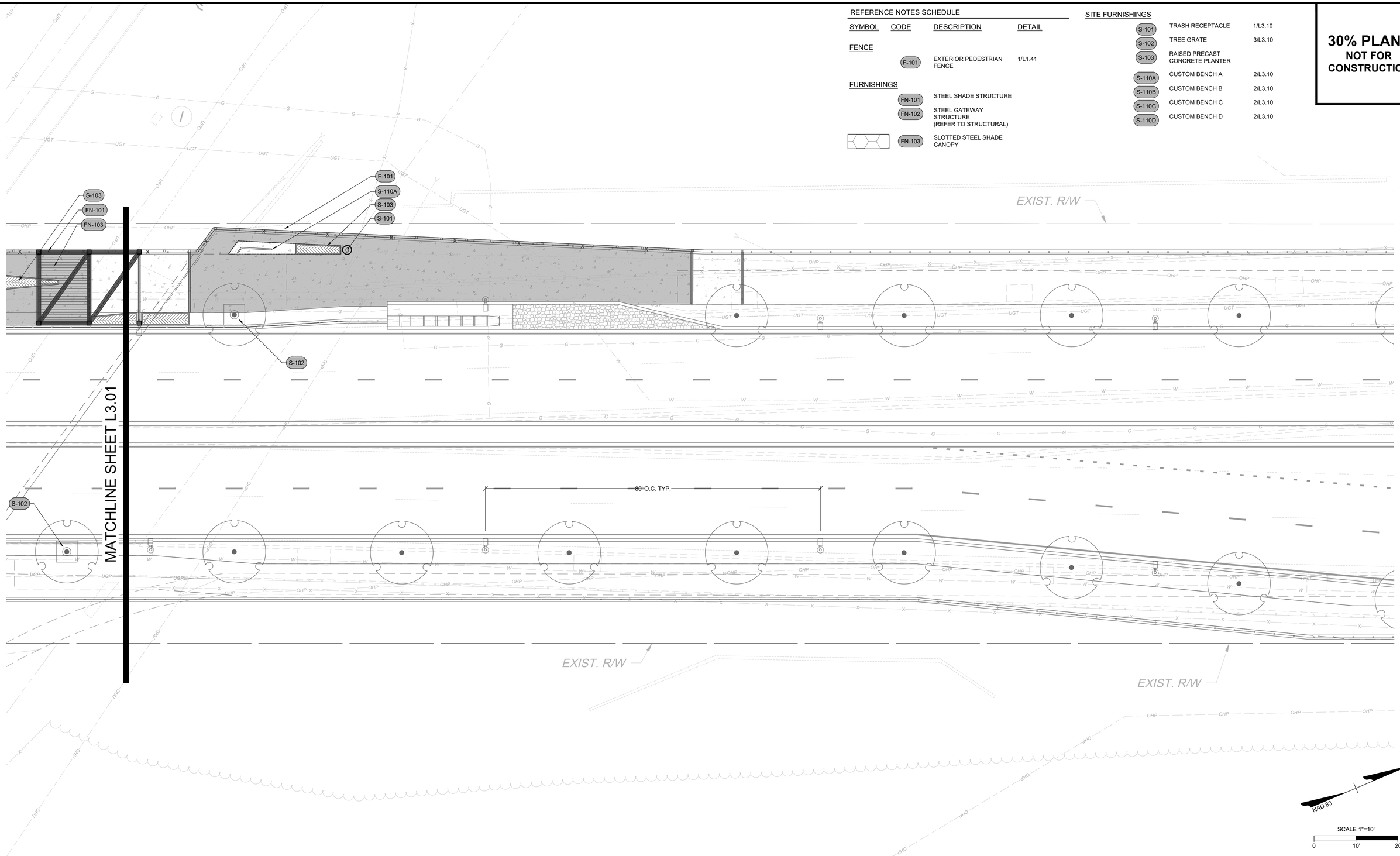
REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
FENCE			
	F-101	EXTERIOR PEDESTRIAN FENCE	1/L1.41
FURNISHINGS			
	FN-101	STEEL SHADE STRUCTURE	
	FN-102	STEEL GATEWAY STRUCTURE (REFER TO STRUCTURAL)	
	FN-103	SLOTTED STEEL SHADE CANOPY	

SITE FURNISHINGS

S-101	TRASH RECEPTACLE	1/L3.10
S-102	TREE GRATE	3/L3.10
S-103	RAISED PRECAST CONCRETE PLANTER	
S-110A	CUSTOM BENCH A	2/L3.10
S-110B	CUSTOM BENCH B	2/L3.10
S-110C	CUSTOM BENCH C	2/L3.10
S-110D	CUSTOM BENCH D	2/L3.10

30% PLANS
NOT FOR CONSTRUCTION



NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

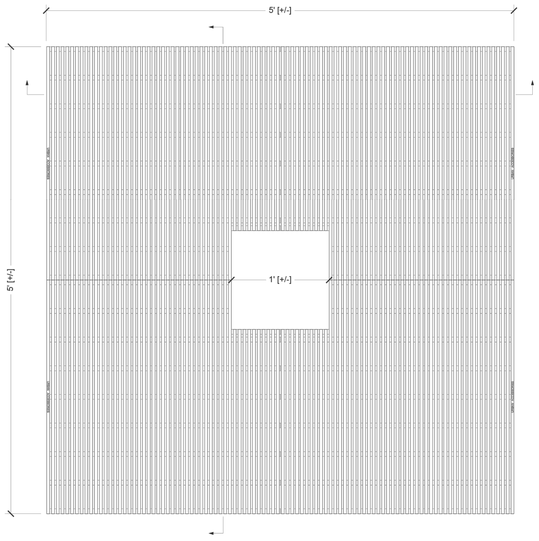
BRIDGE FURNISHINGS PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L3.02	DRAWING NO.

L:\2020\69863-AABB_Roadway\DWG\Sheet\CD\69863-310-L3.00X.dwg | Plotted on 3/24/2025 12:16 PM | by Sam Haush

30% PLANS
NOT FOR CONSTRUCTION

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH



Plan
Scale: 1 1/2" = 1' 0"

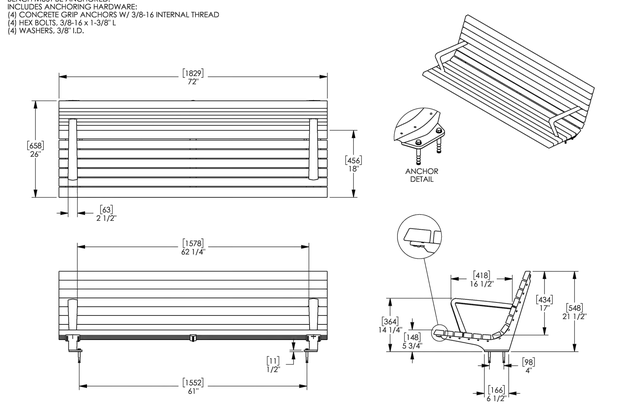
Longitudinal Section
Scale: 1 1/2" = 1' 0"

3 URBAN ACCESSORIES - TREE GRATE
NTS

Generation 50
bench, backed, 72in length, straight cut face board, top of wall mount, surface mt, angled end arms

Product Drawing | www.landscapeforms.com | Date: 10/23/2024 | Ph: 800.521.2546

BENCH MUST BE ANCHORED.
INCLUDES ANCHORING HARDWARE:
(4) CONCRETE GRIP ANCHORS W/ 3/8-16 INTERNAL THREAD
(4) HEX BOLTS, 3/8-16 x 1-3/8" L
(4) WASHERS, 3/8" I.D.



landscapeforms | Drawing: EM204-04 | Dimensions are in inches [mm] | Patent Pending

CONFIDENTIAL DRAWING INFORMATION CONTAINED HEREIN IS THE PROPERTY OF LANDSCAPE FORMS. INTENDED USE IS LIMITED TO DESIGN PROFESSIONALS SPECIFYING LANDSCAPE FORMS PRODUCTS AND THEIR DIRECT CLIENTS. DRAWING IS NOT TO BE COPIED OR DISCLOSED TO OTHERS WITHOUT THE CONSENT OF LANDSCAPE FORMS.
© 2024 LANDSCAPE FORMS. ALL RIGHTS RESERVED.

Generation 50
Product Data Sheet

landscapeforms



	Style	Depth	Width/ Length	Height	Weight
	Cantilever Backless	23.5"	72"	17"	82 lbs
	Cantilever Backless with (2) arms	23.5"	72"	21.25"	89 lbs
	Cantilever Backless with (3) arms	23.5"	72"	21.25"	92 lbs
	Cantilever Backed	26"	72"	32.75"	127 lbs
	Cantilever Backed with (2) arms	26"	72"	32.75"	136 lbs
	Cantilever Backed with (3) arms	26"	72"	32.75"	140 lbs
	Wall Mount Backed	26.5"	72"	27"	133 lbs
	Wall Mount Backed with (2) arms	26.5"	72"	27"	141 lbs
	Wall Mount Backed with (3) arms	26.5"	72"	27"	148 lbs

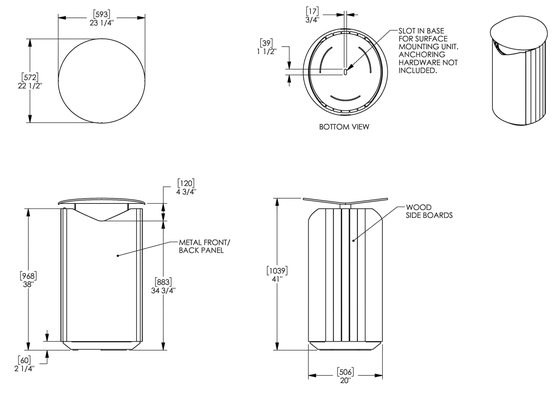
	Style	Depth	Width/ Length	Height	Weight
	Top of Wall Backless	23.5"	72"	6"	78 lbs
	Top of Wall Backless with (2) arms	23.5"	72"	10.25"	85 lbs
	Top of Wall Backless with (3) arms	23.5"	72"	10.25"	89 lbs
	Top of Wall Backed	26"	72"	21.5"	123 lbs
	Top of Wall Backed with (2) arms	26"	72"	21.5"	131 lbs
	Top of Wall Backed with (3) arms	26"	72"	21.5"	136 lbs
	Wall Mount Backless	26.5"	72"	11.5"	90 lbs
	Wall Mount Backless with (2) arms	26.5"	72"	15"	97 lbs
	Wall Mount Backless with (3) arms	26.5"	72"	15"	101 lbs

Note: Weights and dimensions based on jarrah wood (straight-cut faceboards) and angle arms

2 SITE FURNISHING - WOOD BENCH
NTS

Generation 50
litter, side opening

Product Drawing | www.landscapeforms.com | Date: 1/24/2022 | Ph: 800.521.2546



landscapeforms | Drawing: EM411-01 | Dimensions are in inches [mm] | U.S. Patent No. D300,619

CONFIDENTIAL DRAWING INFORMATION CONTAINED HEREIN IS THE PROPERTY OF LANDSCAPE FORMS. INTENDED USE IS LIMITED TO DESIGN PROFESSIONALS SPECIFYING LANDSCAPE FORMS PRODUCTS AND THEIR DIRECT CLIENTS. DRAWING IS NOT TO BE COPIED OR DISCLOSED TO OTHERS WITHOUT THE CONSENT OF LANDSCAPE FORMS.
© 2018 LANDSCAPE FORMS. ALL RIGHTS RESERVED.

Generation 50
Product Data Sheet

landscapeforms



Litter Receptacle
- Generation 50 litter is available with a top-open or side-open lid.
- Capacity: 30 Gallon
- Litters are comprised of wood panel sides, powdercoated carbon steel panels and an inner carbon steel frame, with a black polyethlyene base.
- The black polyethylene base is prefilled with concrete and then plugged. This allows the unit to be freestanding. There is also a slot in the base to allow for the unit to be surface mounted.
- The litters are available freestanding or surface mount.
- Litter lids and side panels are finished with Pangard II polyester powdercoat.
- 30 GL liner is black roto-molded polyethylene.
- Generation 50 litter ships fully assembled.

Finishes
- Interior woods are finished with Landscape Forms' exclusive LF-80 wood finish, a clear, catalyzed acrylic lacquer.
- Exterior woods are unfinished and will weather to a soft pewter gray, requiring no future maintenance.
- All metal is finished with Landscape Forms' proprietary Pangard III® polyester powdercoat, a hard yet flexible finish that resists rusting, chipping, peeling and fading.

To Specify
Bench:
- Specify Generation 50 bench, backed or backless, select mounting style (if applicable), powdercoat color and wood type. Choose faceboard (curved or straight) and select optional arms.

Litter:
- Specify Generation 50 litter, powdercoat color and wood type. Select side-open and top-open, and mounting style.

	Style	Diameter:	Height	Weight
	Top Open	23.25"	39.5"	111 lbs
	Side Open	23.25"	41"	110 lbs

Note: Weights based on jarrah wood

Designed by Robert Chipman

Visit landscapeforms.com for more information. Specifications are subject to change without notice. Landscape Forms supports the Landscape Architecture Foundation at the Second Century level.
©2020 Landscape Forms, Inc. Printed in U.S.A.

1 SITE FURNISHING - LITTER RECEPTACLE
NTS

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

FURNISHING CUT SHEETS

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 25' VERT. N/A	DATE 03/25/2025	SHEET L3.10	DRAWING NO.

L:\20\69863-AABB_Roadway\DWG\Sheet\C\69863-310-L3.10r.dwg | Plotted on 3/24/2025 12:19 PM | by Sam Haish

30% PLANS
NOT FOR CONSTRUCTION

L4.10 DETAIL PLANTING PLAN

L4.11 DETAIL PLANTING PLAN

L4.12 DETAIL PLANTING PLAN

L4.13 DETAIL PLANTING PLAN

L4.14 DETAIL PLANTING PLAN

NAD 83

SCALE 1"=50'

0 50' 100'

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\2026\6863-AABB_Roadway\DWG\Sheet\CD\6863-310L-L4.00.dwg | Plotted on 3/24/2025 12:21 PM | by Sam Haush

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

OVERALL PLANTING PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 50' VERT. N/A	DATE 03/25/2025	SHEET L4.00	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

CONCEPT PLANT KEY

- MEDIUM CANOPY STREET TREE
- SMALL ORNAMENTAL TREE
- RAISED PLANTER MIX

2 PIPES 15" TERRA. OR CONC.

10"-12" TERRA

LIMITS OF STRUCTURAL SOIL, TYP.

EXIST. R/W

SMALL ORNAMENTAL TREE (1)

MEDIUM CANOPY STREET TREE (1)

SITE LIGHTING, TYP. SEE L5.00 SERIES

80' O.C. TYP.

MEDIUM CANOPY STREET TREE (1)

TREE GRATE, TYP.

LIMITS OF STRUCTURAL SOIL, TYP.

MATCHLINE SHEET L4.11

MEDIUM C

EXIST. R/W

EXIST. R/W

NAD 83

SCALE 1"=10'

0 10' 20'

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\2019\99863-AABB_Roanhwy\DWG\Sheet\CD\99863-310-L4.10r.dwg | Plotted on 3/24/2025 12:24 PM | by Sam Haush

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

DETAIL PLANTING PLAN

DESIGN BY: SDH	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: SDH		HORIZ. DATUM: NAD83 VA-S	HORIZ. 1" = 10'	03/25/2025	L4.10	
CHECKED BY: SWW		VERT. DATUM: NAVD88	VERT. N/A			

30% PLANS
NOT FOR CONSTRUCTION

CONCEPT PLANT KEY

- MEDIUM CANOPY STREET TREE
- SMALL ORNAMENTAL TREE
- RAISED PLANTER MIX

EXIST. R/W

LIMITS OF STRUCTURAL SOIL, TYP.

SITE LIGHTING, TYP. SEE L5.00 SERIES

MEDIUM CANOPY STREET TREE (1)

80' O.C. TYP.

MATCHLINE SHEET L4.10

MEDIUM CANOPY STREET TREE (1)

LIMITS OF STRUCTURAL SOIL, TYP.

MEDIUM CANOPY STREET TREE (1)

TREE GRATE, TYP.

MATCHLINE SHEET L4.12

EXIST. R/W

NAD 83

SCALE 1"=10'

0 10' 20'

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\20595863-AABB_Roadway\DWG\Sheet\CD\95863-310-L4.10r.dwg | Plotted on 3/24/2025 12:24 PM | by Sam Haush

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

DETAIL PLANTING PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L4.11	DRAWING NO.

CONCEPT PLANT KEY

- MEDIUM CANOPY STREET TREE
- SMALL ORNAMENTAL TREE
- RAISED PLANTER MIX

30% PLANS
NOT FOR CONSTRUCTION

EXIST. R/W

LIMITS OF STRUCTURAL SOIL, TYP.

RAISED PLANTER MIX (159 sf)

RAISED PLANTER MIX (199 sf)

RAISED PLANTER MIX (34 sf)

TREE GRATE, TYP.

SITE LIGHTING, TYP.
SEE L5.00 SERIES

MATCHLINE SHEET L4.11

MATCHLINE SHEET L4.13

RAISED PLANTER MIX (28 sf)

SITE LIGHTING, TYP.
SEE L5.00 SERIES

RAISED PLANTER MIX (33 sf)

TREE GRATE, TYP.

EXIST. R/W

Railroad Tracks

NAD 83

SCALE 1"=10'

0 10' 20'

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\20\69863-AABB_Roadway\DWG\Sheet\C\69863-310-L4.10r.dwg | Plotted on 3/24/2025 12:24 PM | by Sam Haush

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

DETAIL PLANTING PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L4.12	DRAWING NO.

CONCEPT PLANT KEY

MEDIUM CANOPY STREET TREE

SMALL ORNAMENTAL TREE

RAISED PLANTER MIX

30% PLANS
NOT FOR CONSTRUCTION

R MIX (199 sf)

EXIST. R/W

RAISED PLANTER MIX (24 sf)

LIMITS OF STRUCTURAL SOIL, TYP.

TREE GRATE, TYP.

LIMITS OF STRUCTURAL SOIL, TYP.

SITE LIGHTING, TYP.
SEE L5.00 SERIES

MATCHLINE SHEET L4.12

MATCHLINE SHEET L4.14

TE, TYP.

80' O.C. TYP.

LIMITS OF STRUCTURAL SOIL, TYP.

EXIST. R/W

EXIST. R/W

NAD 83

SCALE 1"=10'

0 10' 20'

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\2020\99863-AABB_Rodney\DWG\Sheet\CD99863-310_L4.10x.dwg | Plotted on 3/24/2025 12:24 PM | by Sam Haush

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

DETAIL PLANTING PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L4.13	DRAWING NO.

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\20\69863-AABB_Roadway\DWG\Sheet\C69863-310_L4.10x.dwg | Plotted on 3/24/2025 12:25 PM | by Sam Haish

CONCEPT PLANT KEY

- MEDIUM CANOPY STREET TREE
- SMALL ORNAMENTAL TREE
- RAISED PLANTER MIX

30% PLANS
NOT FOR CONSTRUCTION

MATCHLINE SHEET L4.13

LIMITS OF STRUCTURAL SOIL, TYP.

SITE LIGHTING, TYP. SEE L5.00 SERIES

80' O.C. TYP.

TREE GRATE, TYP.

LIMITS OF STRUCTURAL SOIL, TYP.

12" RCP

12" RCP

12" RCP

12" RCP

12" RCP

IST. R/W

SHERWOOD AVE. EXTENDED
40' (PRIVATE) R/W
V. DRAWING N-23100-D

NAD 83'

SCALE 1"=10'
0 10' 20'

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

DETAIL PLANTING PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L4.14	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

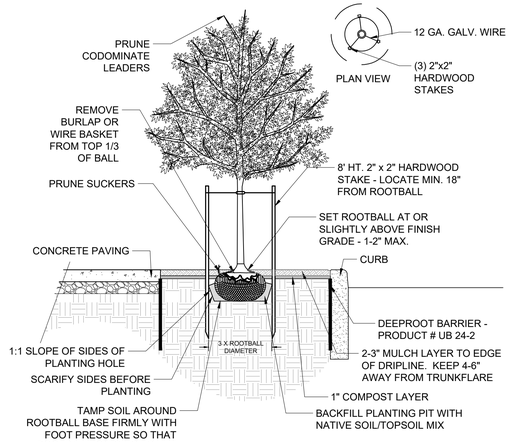
SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

CONCEPT PLANT SCHEDULE

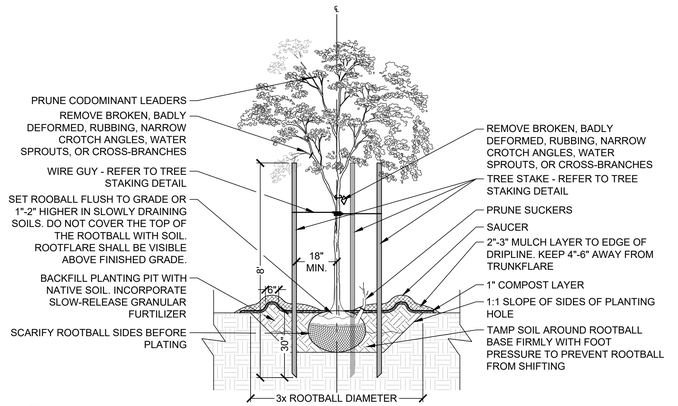
	MEDIUM CANOPY STREET TREE	43
	SMALL ORNAMENTAL TREE	12
	RAISED PLANTER MIX	931 SF

LANDSCAPE NOTES:

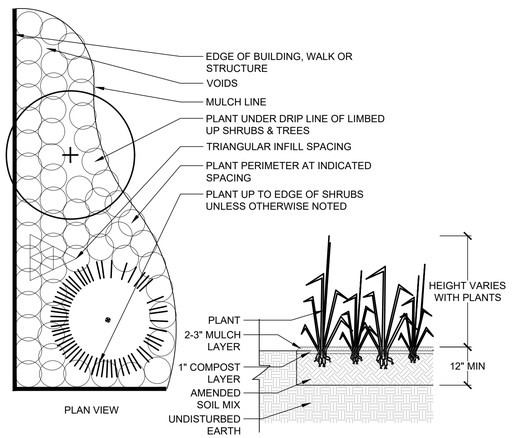
- PLANT SCHEDULE QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO BIDDING AND CONSTRUCTION.
- SEED ALL DISTURBED AREAS UNLESS OTHERWISE SHOWN ON PLAN.



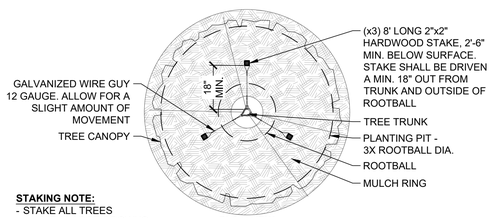
3 DECIDUOUS TREE AT BACK OF CURB
NTS



1 DECIDUOUS TREE PLANTING DETAIL
3/8" = 1'-0"



4 GROUNDCOVER PLANTING DETAIL
NTS



STAKING NOTE:
- STAKE ALL TREES
  - -- WITH LARGE CROWNS
  - -- IF LOCATED ON WINDY SITES
  - -- ON SLOPES
  - -- WHERE TAMPERING MAY OCCUR
- STAKE EVERGREEN TREES 6' OR TALLER
- STAKE DECIDUOUS TREES 2" CALIPER OR GREATER

2 TREE STAKING DETAIL
3/8" = 1'-0"

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

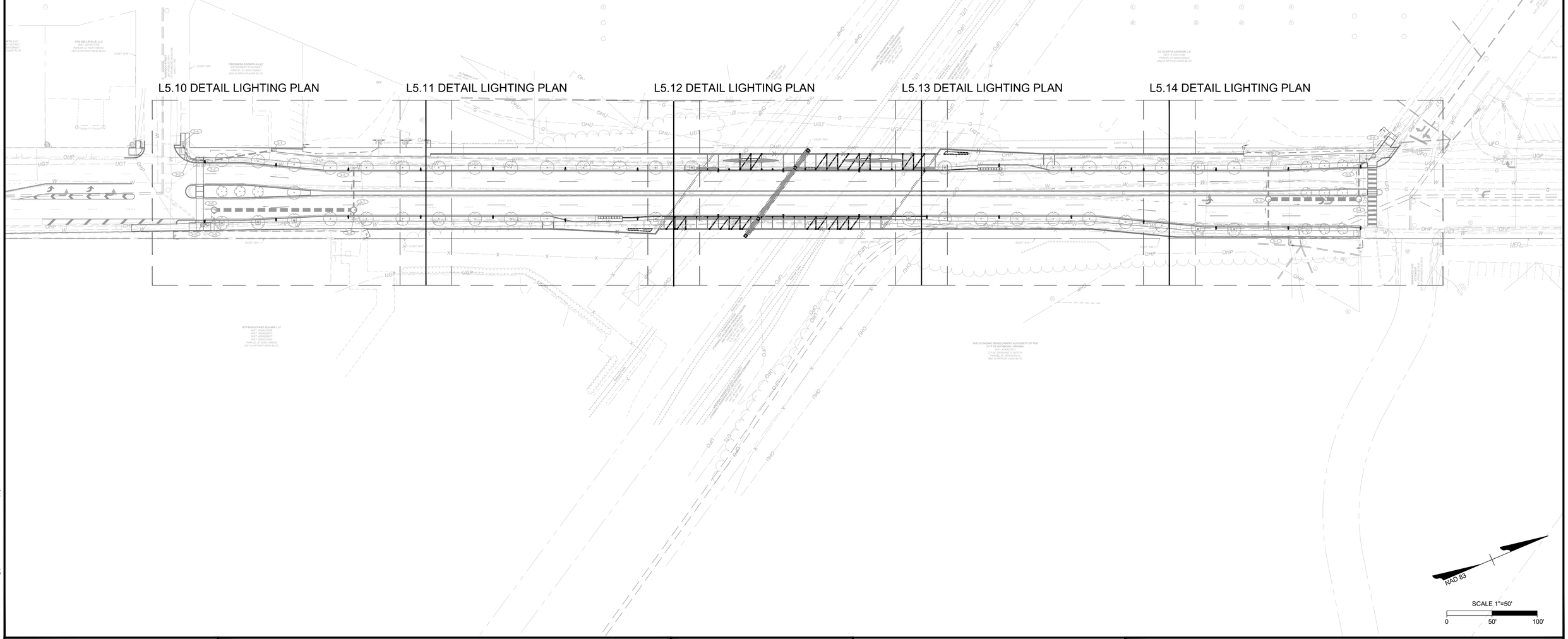
PLANTING DETAILS

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 25' VERT. N/A	DATE 03/25/2025	SHEET L4.20	DRAWING NO.

L:\20\69863-AABB_Roadway\DWG\Sheet\CIVil\69863-310L-L4.20.dwg | Plotted on 3/24/2025 12:27 PM | by Sam Haush

30% PLANS
NOT FOR CONSTRUCTION

L5.10 DETAIL LIGHTING PLAN | L5.11 DETAIL LIGHTING PLAN | L5.12 DETAIL LIGHTING PLAN | L5.13 DETAIL LIGHTING PLAN | L5.14 DETAIL LIGHTING PLAN



SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\2026\6863-AABB_Roadway\DWG\Sheet\CD\6863-310L-L5.00.dwg | Plotted on 3/24/2025 12:30 PM | by Sam Haush

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

OVERALL LIGHTING PLAN

DESIGN BY: SDH	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: SDH		HORIZ. DATUM: NAD83 VA-S	HORIZ. 1" = 50'	03/25/2025	L5.00	
CHECKED BY: SWW		VERT. DATUM: NAVD88	VERT. N/A			

30% PLANS
NOT FOR CONSTRUCTION

2 PIPES 15"
TERRA. OR CONC.

10"-12" TERRA

EXIST. R/W

STREET LIGHT, TYP.

80' O.C. TYP.

STREET LIGHT, TYP.

MATCHLINE SHEET L5.11

EXIST. R/W

EXIST. R/W

NAD 83

SCALE 1"=10'
0 10' 20'

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\2019\99863-AABB_Roanhwy\DWG\Sheet\CD99863-310-L5.10r.dwg | Plotted on 3/24/2025 12:32 PM | by Sam Haush

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

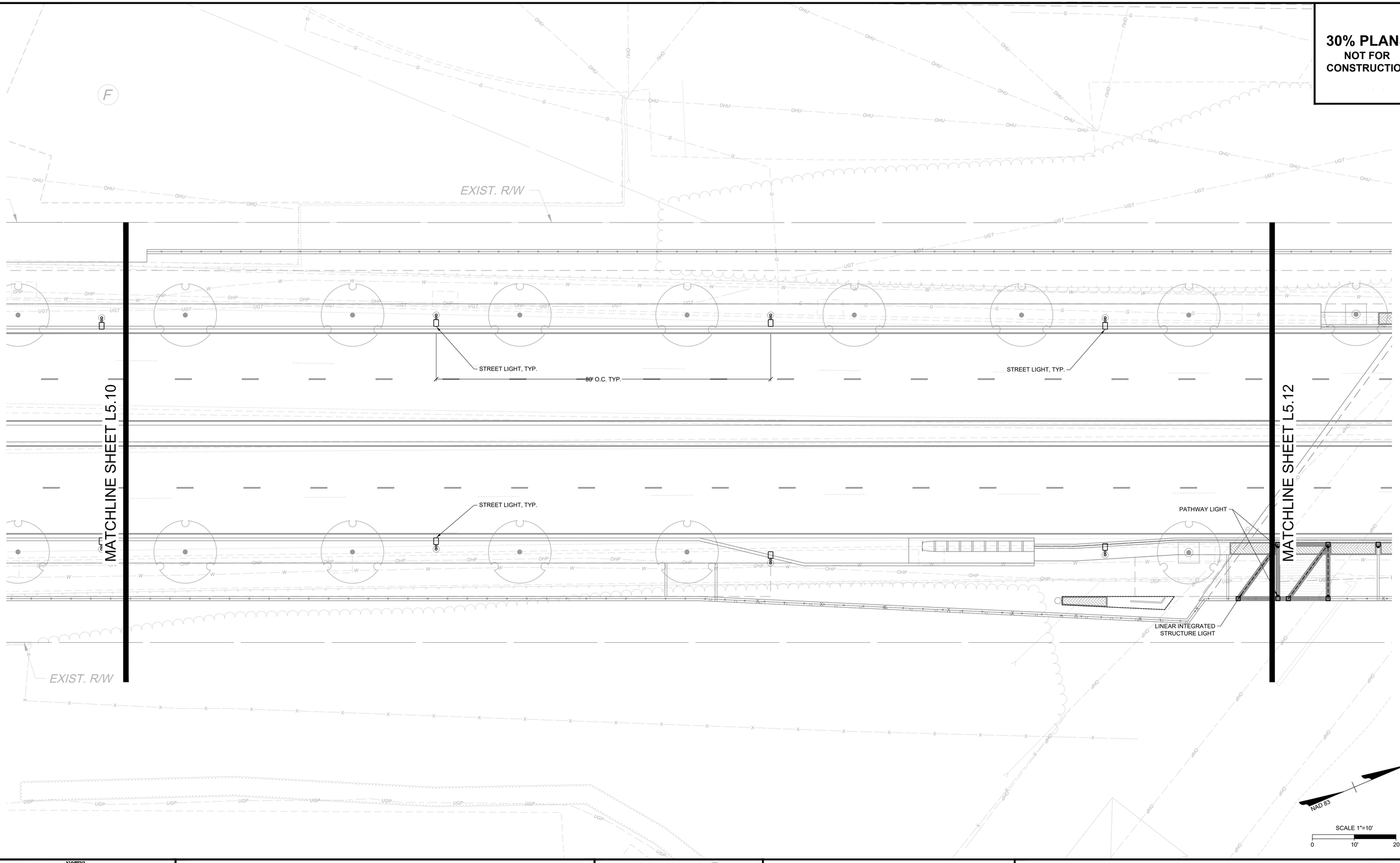
TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT
DETAIL LIGHTING PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L5.10	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH



L:\20595863-AABB_Roadway\DWG\Sheet\CD\59863-310-L5.10r.dwg | Plotted on 3/24/2025 12:32 PM | by Sam Haloh

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

DETAIL LIGHTING PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L5.11	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

EXIST. R/W

LINEAR INTEGRATED BENCH UNDER LIGHT

LINEAR INTEGRATED BENCH UNDER LIGHT

PATHWAY LIGHT

LINEAR INTEGRATED STRUCTURE LIGHT

PATHWAY LIGHT

STREET LIGHT, TYP.

LINEAR INTEGRATED STRUCTURE LIGHT

PATHWAY LIGHT

MATCHLINE SHEET L5.11

MATCHLINE SHEET L5.13

PATHWAY LIGHT

LINEAR INTEGRATED BENCH UNDER LIGHT

STREET LIGHT, TYP.

LINEAR INTEGRATED STRUCTURE LIGHT

LINEAR INTEGRATED BENCH UNDER LIGHT

LINEAR INTEGRATED STRUCTURE LIGHT

PATHWAY LIGHT

EXIST. R/W

Railroad Tracks

NAD 83

SCALE 1"=10'

0 10' 20'

L:\20\69863-AABB_Roadway\DWG\Sheet\C\69863-310-L5.10x.dwg | Plotted on 3/24/2025 12:33 PM | by Sam Haish

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

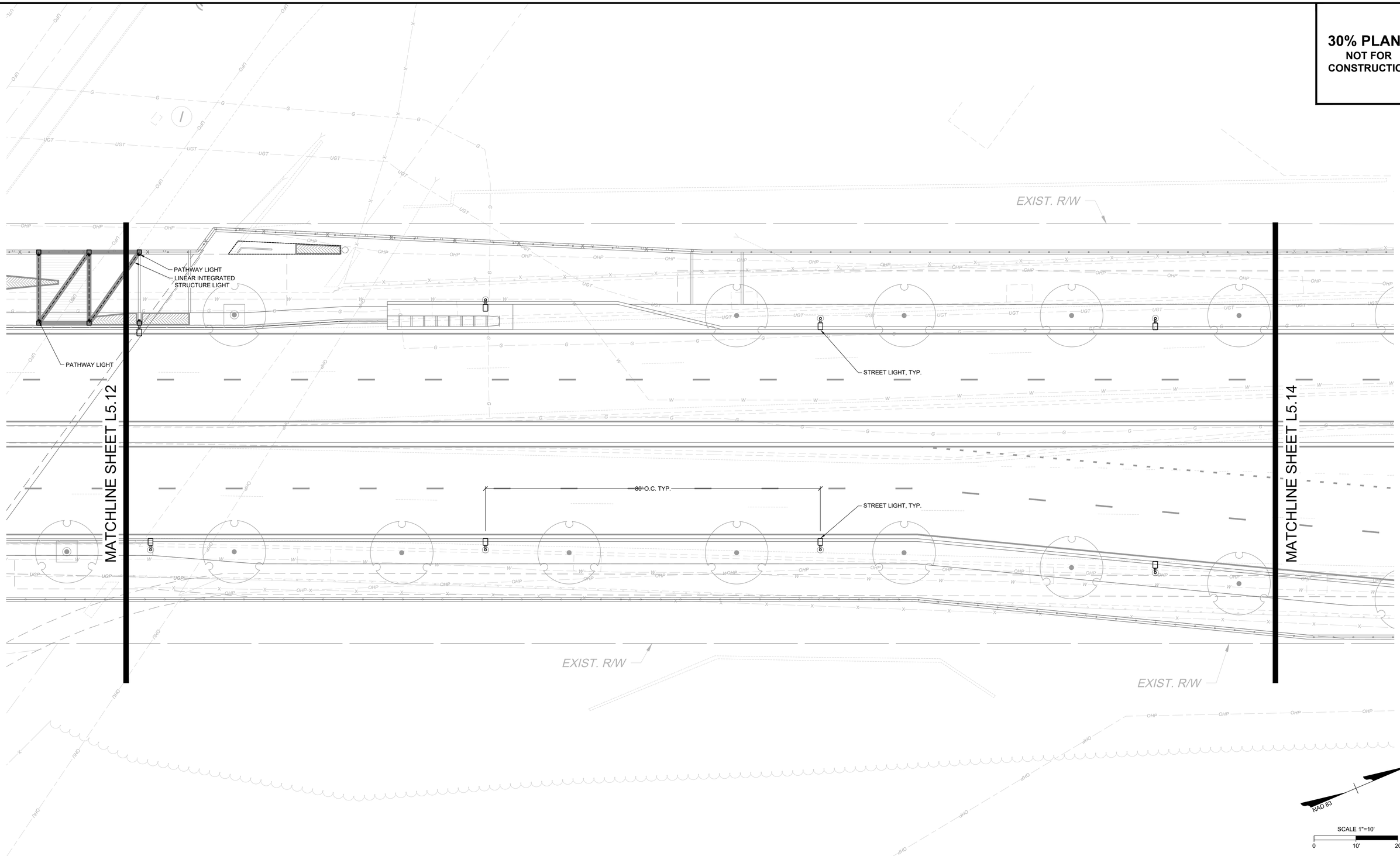
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT
DETAIL LIGHTING PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L5.12	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION



SURVEYED BY: ..... TIMMONS GROUP .....
SUPERVISED BY: S. WILEY + M. COLBY .....
DESIGNED BY: ..... S. HAUSH .....

L:\2020\99863-AABB_Rodney\DWG\Sheet\CD\99863-310-L5.10r.dwg | Plotted on 3/24/2025 12:33 PM | by Sam Haush

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

DETAIL LIGHTING PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L5.13	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

MATCHLINE SHEET L5.13

STREET LIGHT, TYP.

80' O.C. TYP.

STREET LIGHT, TYP.

12" RCP

12" RCP

12" RCP

12" RCP

IST. R/W

SHERWOOD AVE.
EXTENDED
40' (PRIVATE) R/W
V. DRAWING N-23100-D

NAD 83'

SCALE 1"=10'
0 10' 20'

L:\20\69863-AABB_Roadway\DWG\Sheet\C69863-310_L5.10x.dwg | Plotted on 3/24/2025 12:33 PM | by Sam Haish

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853) BRIDGE REPLACEMENT

DETAIL LIGHTING PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L5.14	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\2026\89863-AABB_Roadway\DWG\Sheet\CD\89863-310L-L5.20v.dwg | Plotted on 3/24/2025 12:35 PM | by Sam Haush

USE-90012
Steamer Large Rectangular Streetlight

microVos TECHNOLOGY

LIGMAN LIGHTING USA



209w LED
27711 Lumens

157w LED
16997 Lumens

120w LED
16227 Lumens

80w LED
8781 Lumens

29w LED
2934 Lumens

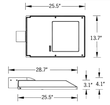
Weight 32 lbs

IP66
Suitable for wet locations

IK08
Impact Resistant (Vandal Resistant)

EPA - 1.91

POLE NOT INCLUDED



Construction

Aluminum
Less than 0.1% copper content – Marine Grade 6060 extruded & LMI Aluminum High Pressure die casting provides excellent corrosion resistance, attractive detailed product lines and excellent heat dissipation.

Pre-paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive, Silicon Gasket
Our IP66 rated luminaires are sealed with a one piece "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management
Our LED luminaires are due to excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by LIGMAN engineers maintains the LED junction temperature at a below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life of operating less than 10% lumen depreciation at 50,000 hours.

BUG Rating
B3 - U0 - G2

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

Finishing
All Ligman products go through an extensive finishing process that includes fretting to improve paint adherence.

Paint
UV Stabilized 4.5Mil thick powder coat paint and baked at 200 C for 20 minutes to provide a durable finish suitable for withstand harsh environments. Rated for use in hallalkanums.

Inspired by Nature Finishes
The inspired by nature finishing is a unique system of electrostatically applied powder coat that uniquely pigment can easily transform the appearance of metal or aluminum product into a wood grain finish.

This patented technology enables the simulation of wood grain, stone, granite, or granite finish through the use of decorative powder coating.

The wood grain finish is so realistic that it's almost undistinguishable from real wood, even from a close visual inspection. The system of looking permeates the entire coating, so that the look of real wood grain cannot be removed by normal rubbing, chipping, or scratching.

The Coating Process
After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder coating is then cured at 400°F to provide a durable finish with corrosion and acts as the relief base coat for the finished metal decoration.

The component is then wrapped with a sheet of non-porous film with the selected decoration pattern printed on it using high definition gravure inks.

The printed film transfer is vacuum-sealed to the surface for a complete thermo print and then transferred into a customized oven. The heat and pressure cause the film to shrink and release the paint layer before it becomes solid. Finally the film is removed, and a vivid timber look on aluminum remains.

Wood grain coating can create forceful wood-looking products of any sort. There are over 300 combinations of designs; therefore, the wood grains can be made with different colors, designs, etc.

Our powder coatings are certified for indoor and outdoor applications and are backed by a comprehensive warranty. These coatings rise to the highest considerable standard of performance excellence and design innovations.

Added Benefits:
- Resistant to salt spray, salt-acid room, accelerated aging
- Boiling water, brine and condensed water resistant.
- Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch
- Anti-Fingerprint (optional)
- TUSC free (non-toxic)

Hardware
Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to moisture from rain, offshore atmospheres and moisture.

Crystal Clear Low Iron Glass Lens
Our luminaires are provided with resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED
Precise optic design provides exceptional light control and precise distribution of light.
LED CRI > 80

Lumen - Maintenance Life
L85 /B10 at 50,000 hours CThis means that at least 90% of the LED still achieve 90% of their original flux)

Column-mounted contemporary area lighting family. Modern and powerful high-end column range using optimum-quality area lighting projectors.

A slim wedge shaped, high pressure die-cast pole mounted area light with a variety of different light distributions to suit all lighting designer's requirements.

This luminaire has been designed to provide excellent light distribution, utilizing the highly efficient LED packages and optics. The result is excellent spacing to mounting height ratios, with a uniform lighting layout that meets code requirements using less energy.

The Steamer can be utilized to suit specific light patterns using the asymmetrical type II, III, IV and MR optics, as well as variations of these for precise light distribution requirements. An example of this is using a combination of Type II & Type IV distribution optics inside the same fixture.
Type V distributions in medium, wide, very wide & extra wide are also available, please contact factory.

This luminaire complies to dark sky requirements when mounted in the horizontal position.
Designed for lighting private roadways, car parks, exhibition areas, service stations and truck stops. Internal house side shields are available as an option.

Available with a selection of integral electronic and dimmable electronic drivers as well as a provision to install occupancy sensors, as well as wireless lighting controls to integrate with building management systems, (WATT-ADJUST) This luminaire is provided with a programmable driver so that specific wattage requirements can be achieved. These settings are done at the factory during assembly. (See options below)

NOTE: Standard luminaires are manufactured to be mounted for downward lighting only.

Uplight options can be provided. Please contact factory for more information.

To meet International Dark Sky criteria, 3000k or warmer LEDs must be selected and luminaire fix mounted (+/- 15° allowable to permit leveling).

Additional Options (Consult Factory For Pricing)



HSS
Integrated House Side Shield

EHSS
External House Side Shield

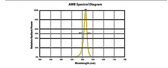


ASSWI
Pooja Rock 'B'

ASSWI
NORA 1'

RD
Bird Deterrent Spikes

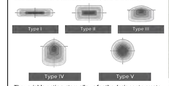
CITY OF FLAGSTAFF & TURTLE FRIENDLY COMPLIANT



Narrow-Spectrum Amber LEDs
Peak wavelength between 585 & 595 nanometers and a full width of 50% power no greater than 15 nanometers.

microVos TECHNOLOGY

Ligman's micro Variable Optical System provides the ability to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity.



The variable optic system allows for the designer to create hybrid distributions for precise lighting requirements.



HYBRID
TYPE I & TYPE IV

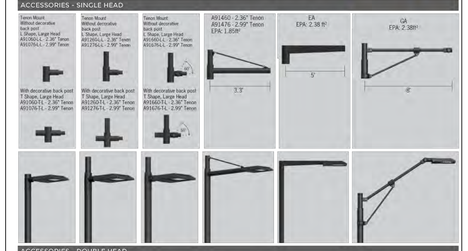
Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.

USE-90012
Steamer Large Rectangular Streetlight

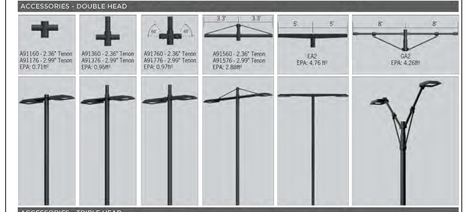
microVos TECHNOLOGY

LIGMAN LIGHTING USA

ACCESSORIES - SINGLE HEAD



ACCESSORIES - DOUBLE HEAD



ACCESSORIES - TRIPLE HEAD



Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.

STREETLIGHT | 16' HEIGHT

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

STREETSCAPE LIGHTING CUT SHEETS

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SMW	REVIEWED BY	FIELD NOTES HORZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 25' VERT. N/A	DATE 03/25/2025	SHEET L5.20	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH



STEEL SUPERSTRUCTURE INTEGRATED LIGHTING | 16' HEIGHT

GENLED acolyte Architectural Lighting Solutions

Date
Project
Notes

NEON SILHOUETTE

It's like neon, but better! This bendable, waterproof silicone fixture uses a smooth, flat lens that gives modern LEDs the classic glow of pinpoint neon lines. Available in Static White, Variable White and color changing RGB, the Neon Silhouette is designed to brave the elements in façade lighting and lettering.

- Side-bending flexible silicone creates vivid lines of light
- RGB, Static White, Variable White at 3.0 W/ft (9.8 W/m)
- All cut lengths at 1.97 in. (50 mm)
- Molded end cap for smooth finish
- Waterproof and UV resistant
- Salt water resistant
- Sleek flat design helps create elegant lighting solutions

Applications:

Commercial, Entertainment, Healthcare | Hospitality, Museums, Public Spaces | Residential, Retail / Signage

CE RoHS IP67 TM66 ASSESSED



ORDERING GUIDE

Category	Wattage & Color		Power Feed Direction
NLS			
NLS – Neon Silhouette	3.024 - 3.0 W/ft 2400K	3.0RGB - 3.0 W/ft Red, Green, Blue	E - End Feed
	3.027 - 3.0 W/ft 2700K	3.0VW - 3.0 W/ft Variable White (2400K-6000K)	B - Bottom Feed
	3.030 - 3.0 W/ft 3000K		
	3.035 - 3.0 W/ft 3500K		
	3.040 - 3.0 W/ft 4000K		

Note: Fixtures less than 8 in. (203 mm) long will come with silicone end caps (A).



Mounting

1. Aluminum Mounting Clip
Recommended for curved applications with 6 in. (150 mm) on center spacing
Part #: NLSMOUNTCLIPV3

2. Neon Silhouette Mounting Channel
Recommended for all straight run applications
Sold by the foot, up to 8 ft 6 in. / 2 m
Part #: NLSCHV2

AVAILABLE COLORS AND COLOR TEMPERATURES

2400K 2700K 3000K 3500K 4000K VW RGB

GENLED acolyte Architectural Lighting Solutions

NEON SILHOUETTE

POWER FEED OPTIONS / SPECIFICATIONS / USAGE GUIDELINES

SPECIFICATIONS	NEON SILHOUETTE
Operating Voltage	24 VDC
Power Consumption	Static White, Variable White, RGB: 3.0 W/ft (9.8 W/m)
Protection Rating	IP67
Beam Angle	110°
Dimming	ELV / MLV / 0-10 Volt / DMX
Operating Temperature	-4 – 140 °F (-20 – 60 °C)
Color Temperatures / Colors	2400K, 2700K, 3000K, 3500K, 4000K, Variable White (2400K-6000K), RGB
Lamp Life	50,000 Hours
Max Length	Static White: 42 ft 7.81 in. (13 m) Variable White, RGB: 16 ft 4.85 in. (5 m)
Cuttable Length	1.97 in. (50 mm) NOT FIELD CUTTABLE
Power Cable Length	Standard: 12 in. (304.8 mm) / Custom: up to 20 ft (6 m)
UV Resistant	UV tested in accordance with ISO 4892-3 with no visible change on the appearance of the sample
Minimum Bend Radius	2.36 in (60 mm)
CRI (white)	90+ for all Color Temperatures
Lumens	3.0 Static White 4000K: 134 lm/ft (439.6 lm/m), 38 lm/W 3.0 Variable White 109 lm/ft (357.5 lm/m), 31 lm/W 3.0 RGB Red: 8 lm/ft (26.2 lm/m), 9 lm/W Green: 30 lm/ft (98.4 lm/m), 29 lm/W Blue: 6 lm/ft (19.7 lm/m), 5 lm/W All LEDs at 100%: 44 lm/ft (144.3 lm/m), 15 lm/W

MOLDED END CAPS (RGB models are with silicone end caps. See page 4 for details.)



Molded End Cap | Molded Power Feed End Cap

USAGE GUIDELINES

- Neon Silhouette cannot be cut in the field. All custom cuts and connections for these models must be performed at the factory to ensure waterproofing standards are met. Any modification of the waterproofing will result in a void warranty.
- When installing this product, consider the surface temperature of the material where it will be mounted. Many building surfaces which are exposed to direct sunlight exceed the 140 °F (60 °C) maximum for which this product is rated. High-risk locations like this should be avoided.
- This product can be used in wet, outdoor locations around swimming pools and spa tubs, but is not intended to be submerged in pools and fountains and does not carry UL 676 certification for submersion.
- Compatible with a wide variety of controls.
- For use with Acolyte drivers, Triac dimming modules, 0-10 V modules and DMX interfaces when applicable.
- Use with non-Acolyte Triac, MLV or ELV drivers is not supported or warranted.
- Due to the cuttable points inside, this product's cuttable lengths are generally longer or shorter than the customer requested length. Unless specified, this product is factory cut at the shorter cuttable point.

Acolyte does not warrant or represent that this information is free from errors or omission. We reserve the right to make changes to our product lineup, specifications, design and finishes at any time without notice. Acolyte is not in any way liable for the accuracy of any information printed and stored or in any way interpreted or used.

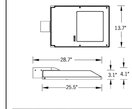
BENCH UNDERLIGHT | <1' HEIGHT

USE-90012
Steamer Large Rectangular Streetlight

microVos TECHNOLOGY | LIGMAN LIGHTING USA



209w LED
27711 Lumens
157w LED
19917 Lumens
120w LED
12427 Lumens
80w LED
8781 Lumens
29w LED
2954 Lumens
Weight 32 lbs
IP66
(suitable for wet locations)
IK08
(Impact Resistant (Vandal Resistant)
EPA - 1.91
POLE NOT INCLUDED



Construction

Aluminum
Less than 0.1% copper content – Marine Grade 6061 extruded & CNC Aluminum. High Pressure die casting provides excellent heat dissipation. Provides a detailed product lines and excellent heat dissipation.

Pre-paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive, Silicon Gasket
Provides a weather tight seal that installs "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management
Die cast aluminum housing, its excellent mechanical strength and thermal dissipation properties is low and high ambient temperatures. The superior thermal heat sink design by LIGMAN engineers maintains LED junction temperatures at below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life ensuring less than 10% lumen depreciation at 50,000 hours.

BUG Rating
B1- U0 - G2

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

Finishing
All Lignian products go through an extensive finishing process that includes testing to improve paint adherence.

Paint
UV Stabilized 4 Mil thick powder coat paint and baked at 200 °C. This finish provides excellent durability and color for withstand harsh environments. Rated for use in salt atmosphere.

Inspired by Nature Finishes
The Inspired by nature, Etching is a unique system of chemical etching that produces a surface of unsurpassed art easily transform the appearance of metal or aluminum product into a wood grain finish.

This patented technology enables the simulation of wood grain, stone, leather and other granite finish through the use of demi-clear powder coating.

The wood grain finish is so realistic that its almost undistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire surface of the metal, so that the finish cannot easily be removed by normal rubbing, chipping, or scratching.

The Coating Process
After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder coating is then cured in an oven at 200°C to provide a high level of corrosion and acts as the relief base coat for the finalized metal decoration.

The component is then wrapped with a sheet of non-porous film with the selected decoration pattern printed on it using high definition gravure printing.

This printed film transfer is vacuum sealed to the surface for a complete thermo print and then transferred into a customized oven where the temperature is raised to the point where it causes the paint layer before it becomes solid. Finally the film is removed, and a wood-timber look on aluminum remains.

Wood grain coating can create beautiful wood-looking products of any sort. There are over 300 combinations of designs available to choose from. Wood grains can be made with different colors, designs, etc.

Our powder coatings are certified for indoor and outdoor applications and backed by a comprehensive warranty. These coatings rise to the highest considerable standard of performance excellence and design innovation.

Added Benefits:
- Resistant to sun, rain and room; accelerated aging
- Boiling water, lime and condensed water resistant
- Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch
- Anti-Fingerprint (Optional)
- TCDE Free (Non-Halo)

Hardware
Provided hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolytic action between dissimilar atmospheres and moisture.

Crystal Clear Low Iron Glass Lens
Tempered, impact resistant, heat-resistant crystal clear low iron glass ensuring no green glass tinge.

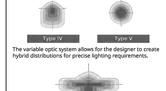
Optics & LED
Precise optic design provides exceptional light control and precise distribution of light.
LED CRI > 80

Lumen – Maintenance Life
L80 @50 at 50,000 hours (The means that at least 90% of the LED still achieve 80% of their original flux)

microVos TECHNOLOGY

Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.

Ligman's micro Variable Optical System provides the ability to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity.



The variable optic system allows for the designer to create hybrid distributions for precise lighting requirements.



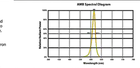
Additional Options (Consult Factory For Pricing)



IHSS Integrated House Side Shield | EHSS External House Side Shield

ASCRS Zhaga Book 18 | ASCRS1 NEMA 7 | RD Bird Deterrent Spikes

CITY OF FLAGSTAFF & TURTLE FRIENDLY COMPLIANT

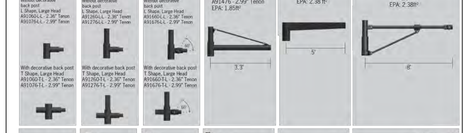


Narrow-Spectrum Amber LEDs
Peak wavelength between 585 & 595 nanometers and a full width of 50% power no greater than 15 nanometers.

USE-90012
Steamer Large Rectangular Streetlight

microVos TECHNOLOGY | LIGMAN LIGHTING USA

ACCESSORIES - SINGLE HEAD



ACCESSORIES - DOUBLE HEAD



ACCESSORIES - TRIPLE HEAD



Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.

STREETLIGHT | 16' HEIGHT

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

BRIDGE LIGHTING CUT SHEETS

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 25' VERT. N/A	DATE 03/25/2025	SHEET L5.30	DRAWING NO.

L:\2020\69863-AABB_Roadway\DWG\Sheet\CD\69863-3110-L5.30v.dwg | Plotted on 3/24/2025 12:38 PM | by Sam Holsh

30% PLANS
NOT FOR CONSTRUCTION

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

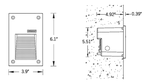
L:\2019\69863-AABB_Roadway\DWG\Sheet\CD\69863-310_L5.30v.dwg | Plotted on 3/24/2025 12:39 PM | by Sam Haush

URA-40531
Rado 1 Recessed

LIGMAN LIGHTING USA



4w COB. 133 Lumens
IP65 • Suitable For Wet Locations
IK09 • Impact Resistant (Vandal Resistant)
Weight 2.2 lbs



Construction

Aluminum Casting
Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint
6 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive Silicon Gasket
Ethylene propylene diene monomer "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management
Our patented design provides the excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman Lighting engineers keeps the LED operating within the optimal critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
B0 • U0 • G0

Finishing
Our finished products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint
UV Stabilized 4.9MIl thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Inspired by Nature Finishes
Ligman Lighting's Inspired by Finishing is a unique system of decorative powder coating. Our metal decoration process can easily transform the appearance of metal or aluminum product into a wood grain finish.

This patented technology enables the simulation of wood grain, stone, concrete, granite finish through the use of decorative powder coating.

The wood grain finish is so realistic that it's almost undistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire surface of the product, so that the finish cannot be removed by normal rubbing, chipping, or scratching.

The Coating Process
After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder coating is applied to a thickness of 4.9MIl to provide corrosion and acts as the relief base coat for the finalized metal decoration.

The component is then wrapped with a sheet of non-porous film with the selected decoration pattern printed on it using heat transfer inks.

The printed film transfer is vacuum-molded to the surface for a complete thermo print and then transformed into a customized oven. The oven transforms the ink into different forms within the paint layer before it becomes solid. Finally, the film is removed, leaving the finished product behind.

Wood grain coating can create beautiful wood finishing products of any sort. There are over 300 combinations of designs currently in use. Wood grains can be made with different colors, designs, etc.

Our powder coatings are certified for indoor and outdoor applications and are backed by a comprehensive warranty. These coatings rise to the highest conceivable standard of performance excellence and design innovation.

Added Benefits
• Resistance to rapid room, accelerated aging
• Resistance to lime and condensed water resistant
• Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch
• Super durable (UV resistant)
• Chip free (non-toxic)

Hardware
Precision hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens
Ultra durable tempered, impact resistant crystal clear low iron glass ensuring no green glare tings.

Optics & LED
Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

Lumen – Maintenance L70
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Sturdy classic wall-recessed pathway and stair luminaire. Simple pleasing aesthetic and sturdy construction, perfect for retrofit applications with its multiple sizes offered.

A range of rectangular and square wall recessed luminaires, with an indirect optical system, offering high vandal resistance. Suitable for indoor or outdoor applications. The recessed LED eliminates all discomfort glare as light is directed to the ground providing illumination where it is needed and minimizing light spill.
This luminaire is provided with a powdercoated high pressure die-cast aluminum back box and can be pre shipped to the jobsite for concrete pour or masonry applications.
This fixture is suitable for lighting footpaths, stairs, squares and entrances.

The Rado range has a matching bollard offering to complement the recessed product. See bollard section on the Ligman website.

All Ligman fixtures can be manufactured using a special pre-treatment and coating process that ensures the fixture can be installed in natatoriums as well as environments with high concentrations of chlorine or salt and still maintain the 5 year warranty. For this natatorium rated process please specify NAT in options.



Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.

URA-40531
Rado 1 Recessed
LIGMAN LIGHTING USA

PROJECT | DATE
QUANTITY | TYPE | NOTE

ORDERING EXAMPLE || URA-40531 - 4w - W30 - 02 - 120/277V

URA-40531	LAMP	LED COLOR	FINISH COLOR	VOLTAGE
	4w COB 133 Lumens	W27 - 2700K W30 - 3000K W35 - 3500K W40 - 4000K	01 - BLACK RAL 9011 02 - DARK GREY RAL 7043 03 - WHITE RAL 9003 04 - METALLIC SILVER RAL 9006 05 - MATTE SILVER RAL 9006 06 - LIGMAN BRONZE 07 - CUSTOM RAL INSPIRED BY NATURE FINISHES SW01 - OAK FINISH SW02 - WALNUT FINISH SW03- PINE FINISH DF - DOUGLAS FIR FINISH CW - CHERRY WOOD FINISH NW - NATIONAL WALNUT FINISH SU01 - CONCRETE FINISH SU02 - SOFTSCAPE FINISH SU03 - STONE FINISH SU04 - CORTEN FINISH THERE IS AN ADDITIONAL COST FOR THESE FINISHES	120/277V Other - Specify

ADDITIONAL OPTIONS
NAT – Natatorium Rated
AMB – Turtle Friendly Amber LED

More Custom Finishes Available Upon Request
Consult factory for pricing and lead times

Oak | Cherry | Beech | Carbon
Walnut | Chestnut | Bamboo | Galvanized
Pine | Mahogany | Birch | Steel


Example: Inspired by Nature Finish

Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.

COLUMN MOUNTED WALKWAY LIGHT | 1' HEIGHT

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT
BRIDGE LIGHTING CUT SHEETS

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORZ. 1" = 25' VERT. N/A	DATE 03/25/2025	SHEET L5.31	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

L6.10 BRIDGE IRRIGATION PLAN

L6.11 BRIDGE IRRIGATION PLAN

L6.12 BRIDGE IRRIGATION PLAN

NAD 83

SCALE 1"=50'

0 50' 100'

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\20595863-AABB_Roadway\DWG\Sheet\CD\595863-310L-L6.00.dwg | Plotted on 3/24/2025 12:41 PM | by Sam Haush

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

DEPARTMENT OF PUBLIC WORKS

RICHMOND, VIRGINIA

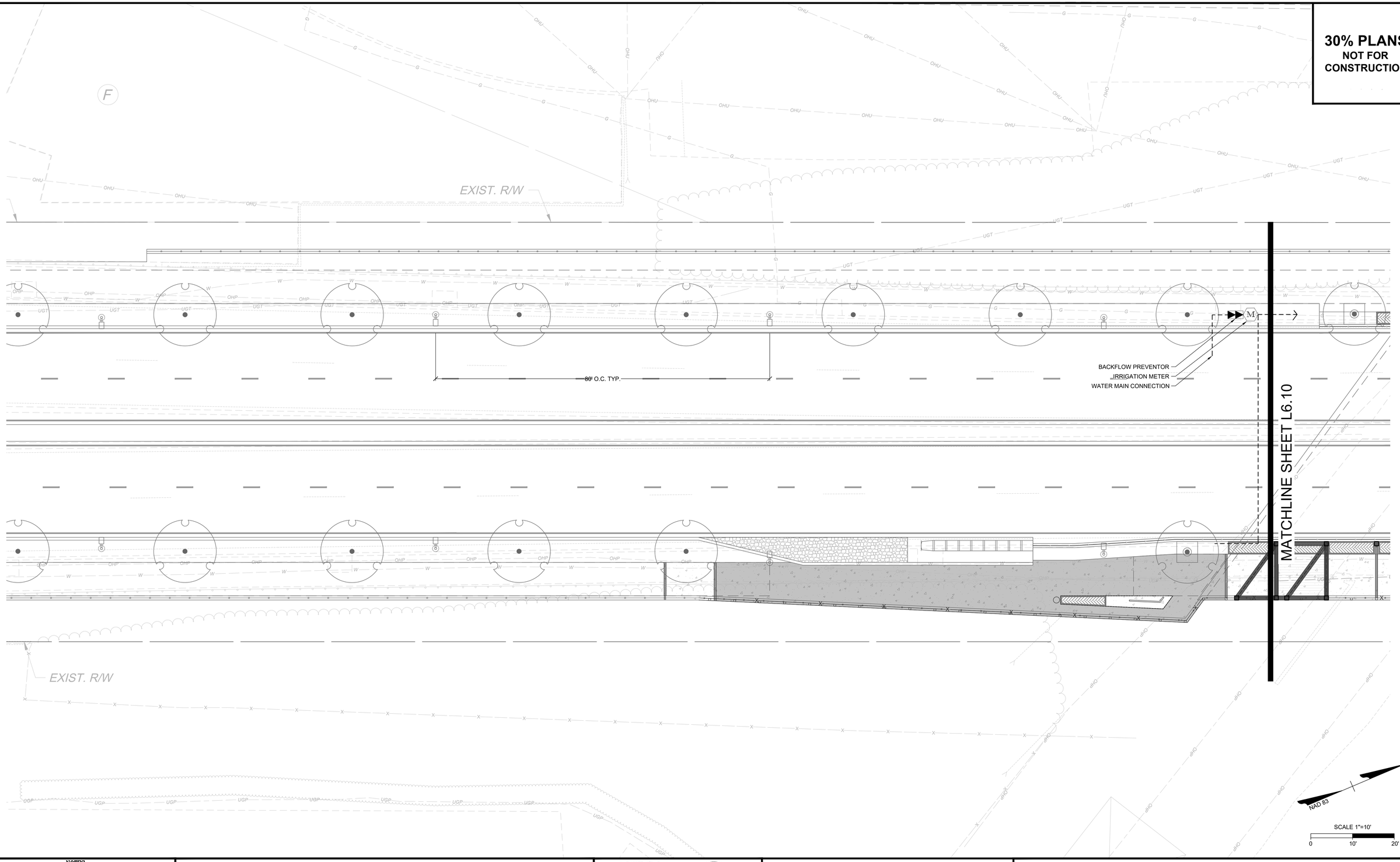
TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

OVERALL IRRIGATION PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 50' VERT. N/A	DATE 03/25/2025	SHEET L6.00	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION



SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\20\69863-AABB_Roxbury\DWG\Sheet\CD\69863-310-L6.10x.dwg | Plotted on 3/24/2025 12:44 PM | by Sam Haush

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (127-1853) BRIDGE REPLACEMENT

BRIDGE IRRIGATION PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORIZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L6.10	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

EXIST. R/W

MATCHLINE SHEET L6.10

MATCHLINE SHEET L6.12

Railroad Tracks

EXIST. R/W

NAD 83

SCALE 1"=10'
0 10' 20'

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

L:\20\69863-AABB_Roadway\DWG\Sheet\C\69863-310-L6.10x.dwg | Plotted on 3/24/2025 12:44 PM | by Sam Haush

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853)
BRIDGE REPLACEMENT

BRIDGE IRRIGATION PLAN

DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L6.11	DRAWING NO.

30% PLANS
NOT FOR CONSTRUCTION

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: S. WILEY + M. COLBY
DESIGNED BY: ..... S. HAUSH

MATCHLINE SHEET L6.11

EXIST. R/W

80' O.C. TYP.

EXIST. R/W

EXIST. R/W

NAD 83

SCALE 1"=10'
0 10' 20'

L:\20\69863-AABB_Roadway\DWG\Sheet\C\69863-310-L6.10v.dwg | Plotted on 3/24/2025 12:44 PM | by Sam Haish

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of August, 2024
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

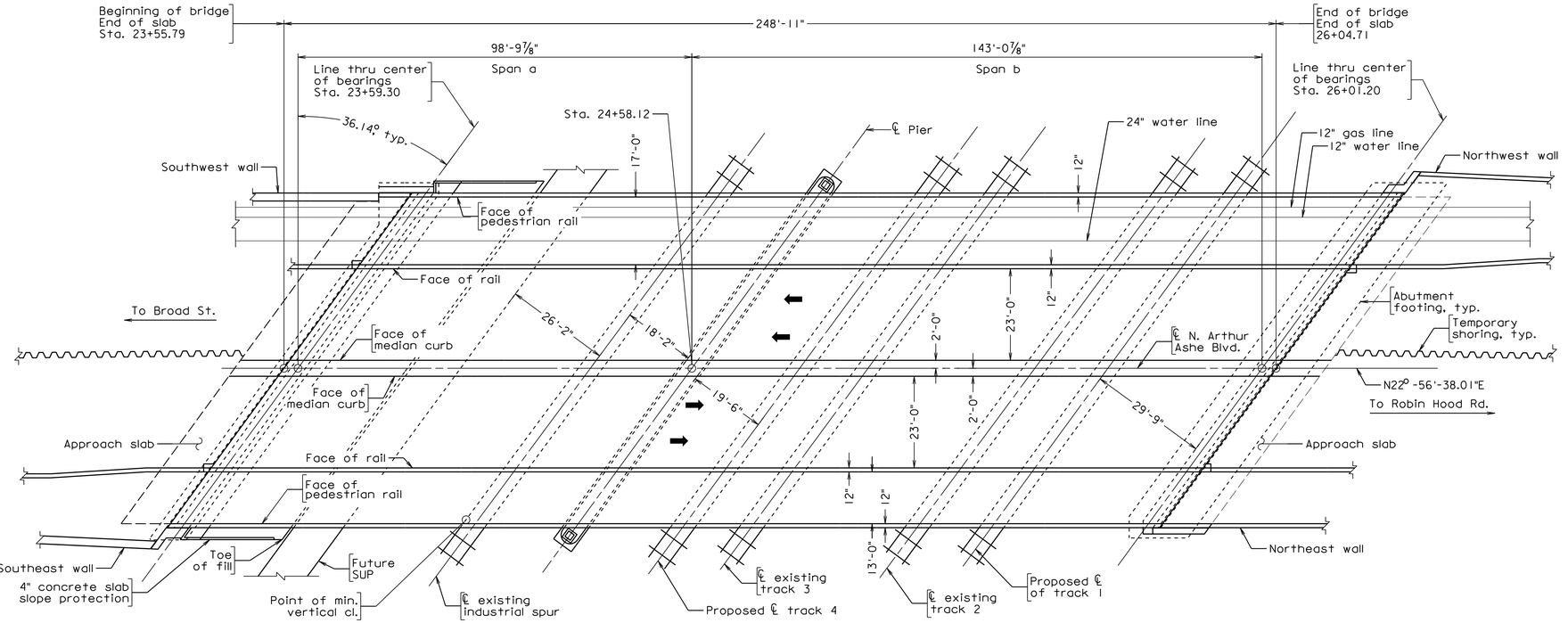
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (127-1853)
BRIDGE REPLACEMENT

BRIDGE IRRIGATION PLAN

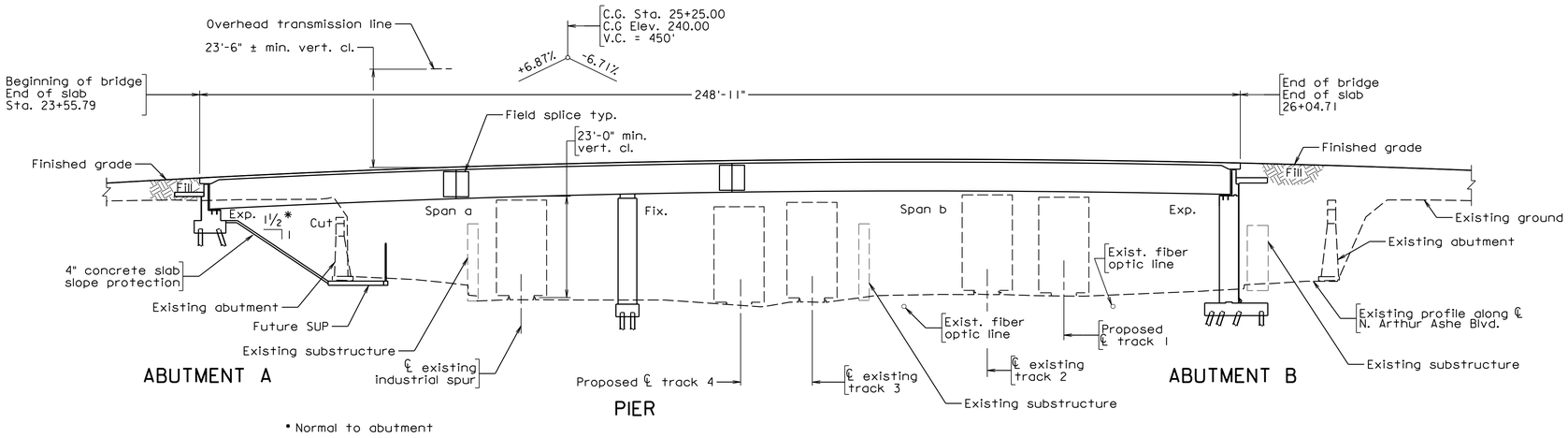
DESIGN BY: SDH DRAWN BY: SDH CHECKED BY: SWW	REVIEWED BY	FIELD NOTES HORZ. DATUM: NAD83 VA-S VERT. DATUM: NAVD88	SCALE HORIZ. 1" = 10' VERT. N/A	DATE 03/25/2025	SHEET L6.12	DRAWING NO.



ABUTMENT A

ABUTMENT B

PLAN



ABUTMENT A

ABUTMENT B

PIER

• Normal to abutment

DEVELOPED SECTION ALONG ℄

DESIGN EXCEPTION(S) AND DESIGN WAIVER(S):

None.

GENERAL NOTES:

The original approved sheet, including original signatures, is filed in the City Hall. Any misuse of electronic files, including scanned signatures, is illegal. Violators will be prosecuted to the full extent of the applicable laws.

Widths: 17'-0" shared use path, 23'-0" roadway, 4'-0" median, 23'-0" roadway, 13'-0" shared use path. Overall width 84'-0" out-to-out.

Span layout: 98'-9⅞" - 143'-0⅞" continuous steel plate girder spans.

Capacity: HL-93 loading.

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020; and SP407-000500 (Special Provision for Superstructure Erection Stability)

Design: AASHTO LRFD Bridge Design Specifications, 9th Edition, 2020; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

These plans are incomplete unless accompanied by the Supplemental Specifications and Special Provisions included in the contract documents.

Design loading includes 20 psf allowance for construction tolerances and construction methods.

Design loading includes 15 psf allowance for future wearing surface.

All structural steel, including bearings, shall be ASTM A709 Grade 50W and shall be unpainted.

Concrete in superstructure, parapets, terminal walls, and median shall be Low Shrinkage Class A4 Modified in accordance with Section 217.12(a); in abutments and piers, Class A3.

All reinforcing steel shall be deformed and shall conform to ASTM A615 Grade 60 except for steels noted as Corrosion Resistant Reinforcing (CRR) which shall conform to Section 223 of the Specifications. All reinforcing bar dimensions on the detailed drawings are to centers of bars except where otherwise noted and are subject to fabrication and construction tolerances.

The classes of CRR steels required on this project are noted on plan sheets and in the reinforcing steel schedule. Class III may be substituted for Class I.

General Notes continued on next sheet.

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: H. FIGAN

57064.096.S1.00_GPE.dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (128-1853) BRIDGE REPLACEMENT

GENERAL NOTES, PLAN AND ELEVATION

DESIGN BY: HJF	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: HJF	CSJ	———	1/16" = 1'-0"	03/25/2025	S1.00	———
CHECKED BY: STT						

ESTIMATED QUANTITIES - SUBSTRUCTURE ONLY

		Concrete Class A3 CY	Reinforcing Steel LB	Corrosion Resistant Reinf. Steel, Class I LB	Steel Piles HP 12 x 53 LF	Struct. Excav. CY ⊗	Select Material (Abutment Zone) TON	Geocomposite Wall Drain SY	Pipe Underdrain 6" LF
Abutment A	Neat	XX	XX	XX	XX	XX	XX	XX	XX
	Footing	XX	XX	XX	XX	XX	XX	XX	XX
Pier 1	Neat	XX	XX	XX	XX	XX	XX	XX	XX
	Footing	XX	XX	XX	XX	XX	XX	XX	XX
Abutment B	Neat	XX	XX	XX	XX	XX	XX	XX	XX
	Footing	XX	XX	XX	XX	XX	XX	XX	XX
Total		XX	XX	XX	XX	XX	XX	XX	XX

⊗ Denotes items to be paid for on the basis of plan quantities in accordance with current Road and Bridge Specifications.

LUMP SUM BID ITEMS

Mobilization	LS
Construction Surveying	LS
Dismantle and Remove Existing Structure Number 1853	LS
Deck Drainage System	LS

Bid item Deck Drainage System shall include drain assemblies, drain pipes, pipe supports and splash blocks

MISCELLANEOUS / ROAD ITEMS

Item	Units	Quantity
NBIS Access, Under Bridge	LS	XX

ESTIMATED QUANTITIES - SUPERSTRUCTURE ONLY

Item	Units	Quantity
Concrete Low Shrinkage Class A4 Mod.	CY	XX
Corrosion Resistant Reinf. Steel, Class I ⊗	LB	XX
Concrete Parapet ⊗	LF	XX
Railing, CPSR-2 Rail ⊗	LF	XX
Structural Steel Plate Girders ASTM A709 Grade 50W	LB*	XX
Bridge Deck Grooving ⊗	SY	XX
Cover Depth Survey ⊗	SY	XX
Pedestrian Fence 8' ⊗	LF	XX
Concrete Class A4 Bridge Appr. Slab ⊗	CY	XX
Reinf. Steel Bridge Approach Slab ⊗	LB	XX

* Lump Sum - Weight includes XXX lbs. of ASTM A709 Grade 36 steel

⊗ Denotes items to be paid for on the basis of plan quantities in accordance with current Road and Bridge Specifications.

Bid Item Bridge Deck Grooving includes the quantity for approach slabs.

INDEX OF SHEETS

Sheet No.	Description
S1.00	General notes, plan and elevation
S2.00	Estimated quantities and index of sheets
S3.00*	Substructure layout, slope protection
S4.00	Sequence of construction (sheet 1 of 3)
S4.01	Sequence of construction (sheet 2 of 3)
S4.02	Sequence of construction (sheet 3 of 3)
S5.00*	Temporary support of excavation
S6.00	Abutment A staged demolition plan
S6.01	Abutment A plan and elevation
S6.02	Abutment A footing plan and details
S6.03	Abutment B staged demolition plan
S6.04	Abutment B plan and elevation
S6.05	Abutment B footing plan and details
S6.06	Abutment A section and details
S6.07	Abutment B section and details
S7.00	Pier 1 plan and elevation
S7.01 *	Pier staged demolition
S7.02 *	Pier 1 footing
S7.03 *	Pier details
S8.00 *	Bearing details
S9.00	Framing plan
S9.01	Girder elevation
S9.02	Girder details
S9.03	Bolted splice details
S9.04 *	Diaphragm details
S9.05 *	Dead load deflection and elevations along girder
S9.06 *	Camber diagram
S10.00*	Top of slab elevations
S10.01*	Deck slab plan
S10.02*	Joint details
S11.00	42" CPSR railing (CPSR-2)
S11.01	42" CPSR terminal wall (CPSRT-4)
S12.00*	Aesthetic details (sheet 1 of 2)
S12.01*	Aesthetic details (sheet 2 of 2)
S12.02*	Aesthetic details - pedestrian fence
S12.03*	Aesthetic details - planter boxes
S13.00*	Utility support details
S14.00*	Reinforcing steel schedule (sheet 1 of 3)
S14.01*	Reinforcing steel schedule (sheet 2 of 3)
S14.02*	Reinforcing steel schedule (sheet 3 of 3)
S15.00*	Engineering geology (sheet 1 of 4)
S15.01*	Engineering geology (sheet 2 of 4)
S15.02*	Engineering geology (sheet 3 of 4)
S15.03*	Engineering geology (sheet 4 of 4)
S16.00*	Abutment A approach slab
S16.01*	Abutment B approach slab
S17.00	Southwest wall elevation
S17.01	Southeast wall elevation
S17.02	Northwest wall elevation (sheet 1 of 2)
S17.03	Northwest wall elevation (sheet 2 of 2)
S17.04	Northeast wall elevation (sheet 1 of 2)
S17.05	Northeast wall elevation (sheet 2 of 2)
S17.06	Retaining wall details (sheet 1 of 2)
S17.07	Retaining wall details (sheet 2 of 2)

* Not included in 30% Design submittal.

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: C. HOGGE

57064.096_S2.00_Index.dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

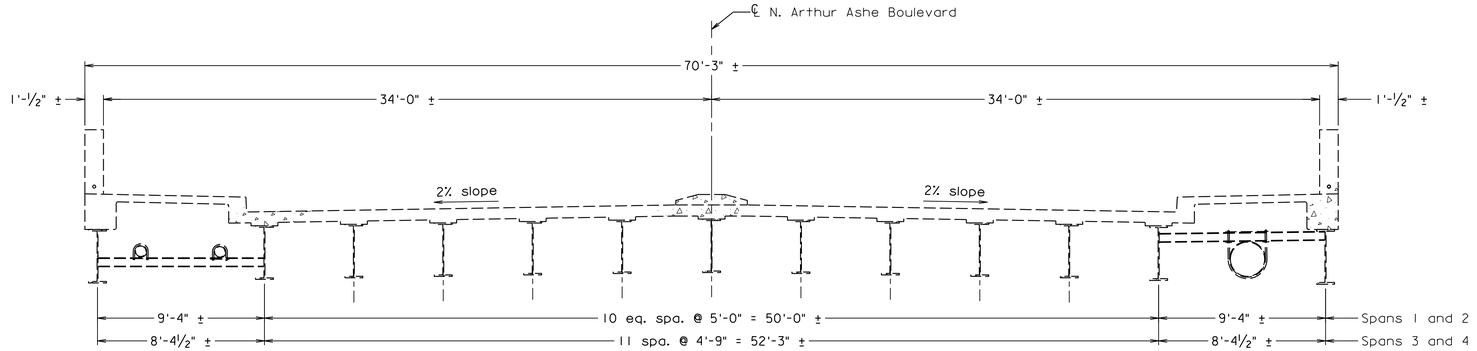
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (128-1853) BRIDGE REPLACEMENT

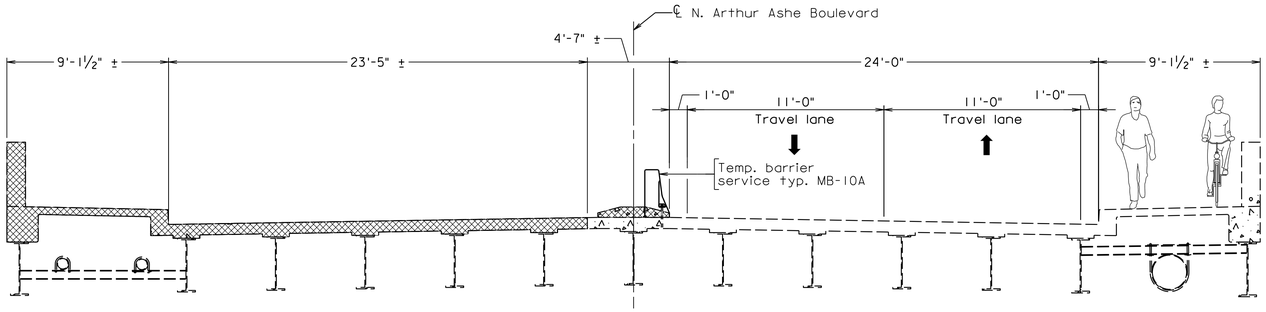
ESTIMATED QUANTITIES AND INDEX OF SHEETS

DESIGN BY: CJH DRAWN BY: CJH CHECKED BY: ALC	REVIEWED BY GSJ	FIELD NOTES ———	SCALE N.T.S.	DATE 03/25/2025	SHEET S2.00	DRAWING NO. ———



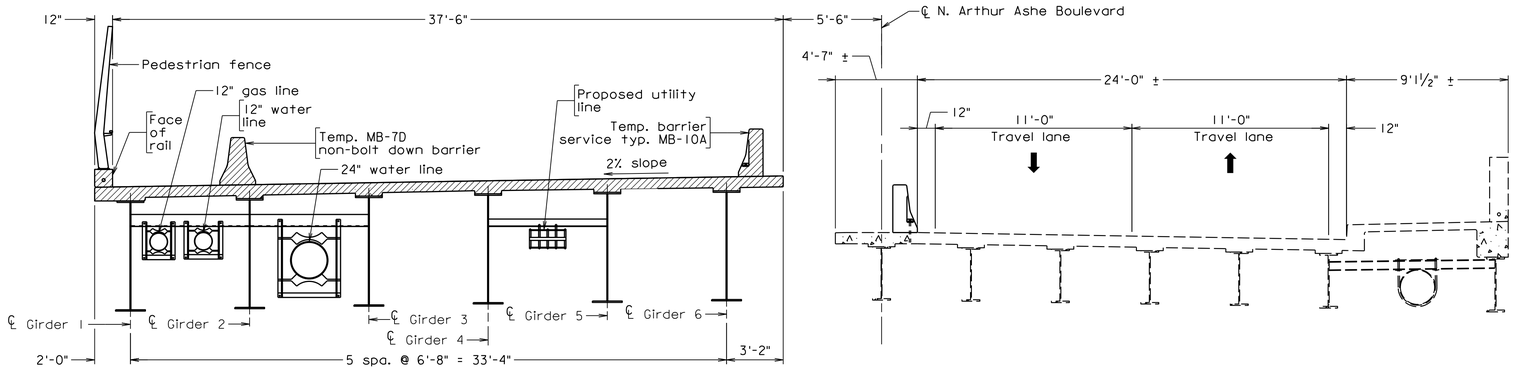
EXISTING TRANSVERSE SECTION

Scale: 1/4" = 1'-0"



PHASE I - DEMOLITION

Scale: 1/4" = 1'-0"



LEGEND:

Denotes limits of removal

Denotes limits of construction

PHASE I - CONSTRUCTION

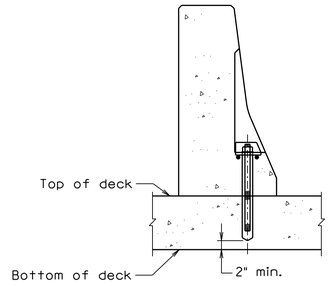
Scale: 1/4" = 1'-0"

Notes:

Existing median must be demolished prior to installation of temporary barrier with lane closures.

For the existing bridge, looking west on the left is Span 1.

Girder spacing is shown for Spans 1 and 2 of the exisiting bridge. The girder spacing for spans 3 and 4 are 4'-8" according to the 1943 record drawings. See the transverse section on sheet U1.00 for more information.



TRAFFIC BARRIER SERVICE
CONRETE PARAPET (SINGLE FACE)

Not to scale

NOTES:

1. Bolt down side adjacent to traffic.
2. For details not shown, see VDOT Road and Bridge Standards MB-10A.
3. After removing Temporary barrier, cut 1/8"ø bolt or threaded rod as low as practical below roadway surface and fill recess with epoxy bonding compound EP-4.
4. Anchor system shall be tested to provide a minimum pullout of 32,000 lbs. and installed according to manufacturer's recommendations.

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... G. JOHNSON
DESIGNED BY: ..... C. HOGGE

57064.096_S4.00_Sequence of Construction (1 of 3).dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

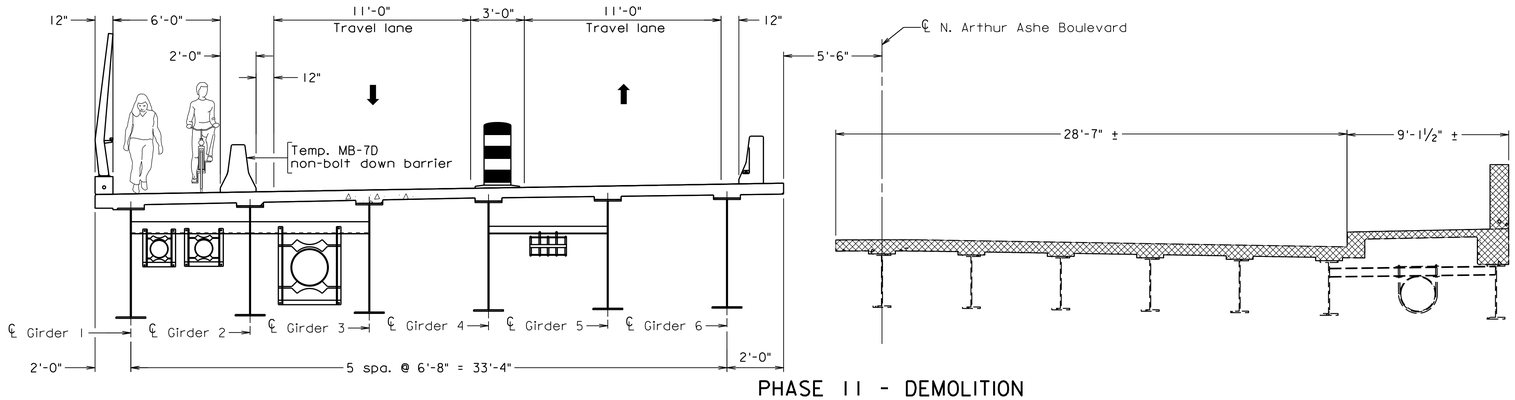
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (128-1853) BRIDGE REPLACEMENT

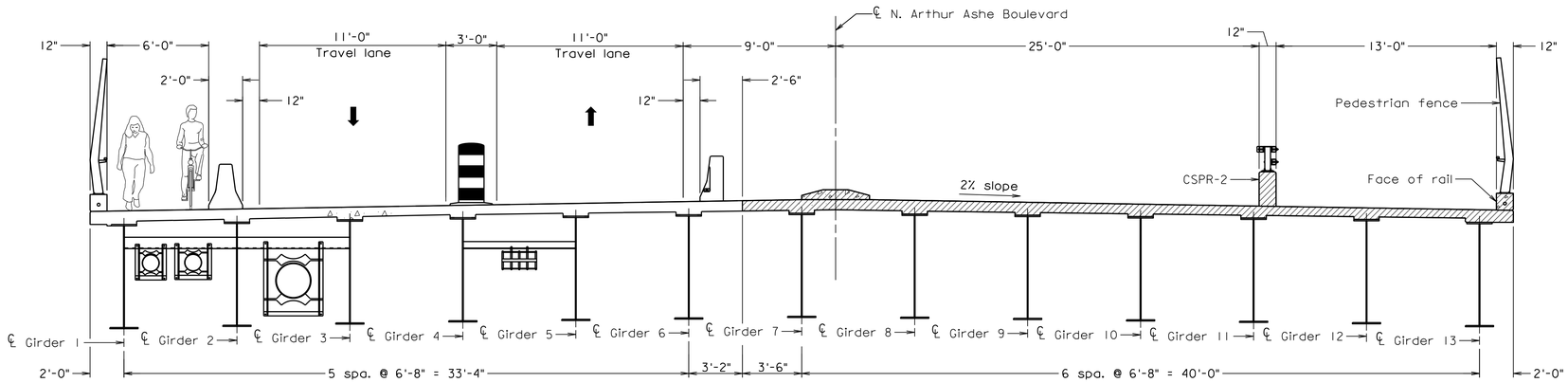
SEQUENCE OF CONSTRUCTION (SHEET 1 OF 3)

DESIGN BY: CJH DRAWN BY: CJH CHECKED BY: ALC	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
	GSJ	———	As Noted	03/25/2025	S4.00	———



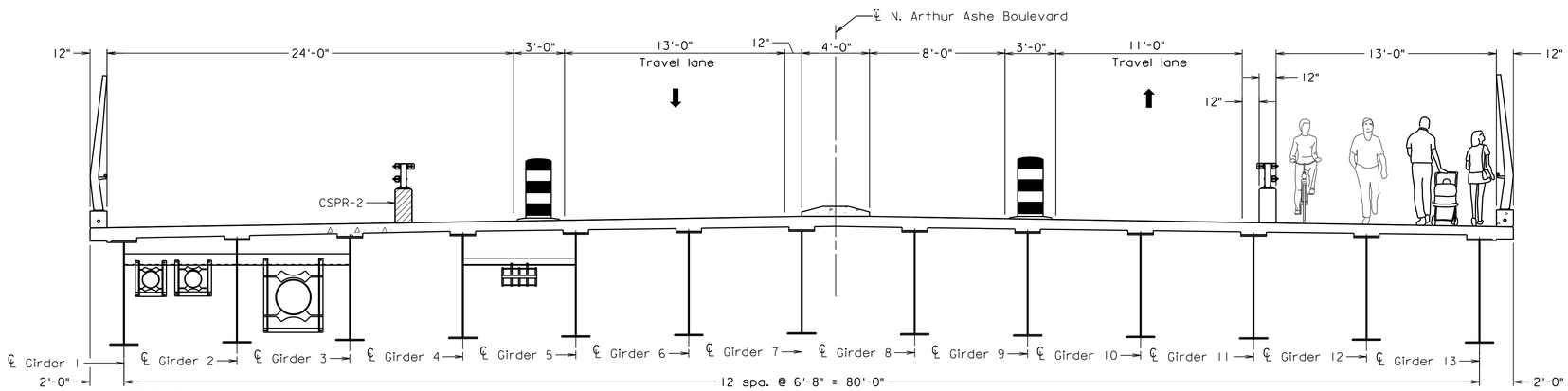
PHASE II - DEMOLITION

Scale: ¼" = 1'-0"



PHASE II - CONSTRUCTION

Scale: ¼" = 1'-0"



PHASE III - CONSTRUCTION

Scale: ¼" = 1'-0"

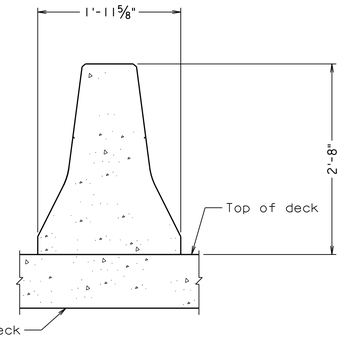
LEGEND:

Denotes limits of removal

Denotes limits of construction

Notes:

Girder spacing is shown for Spans 1 and 2 of the exisiting bridge. The girder spacing for spans 3 and 4 are 4'-8" according to the 1943 record drawings. See the transverse section on sheet U1.00 for more information.



MB-7D DOUBLE FACE
NON-BOLT DOWN TRAFFIC BARRIER

Not to scale

NOTES:

1. For details not shown, see VDOT Road and Bridge Standards MB-7D.

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... G. JOHNSON
DESIGNED BY: ..... C. HOGGE

57064.096_S4.01_Sequence of Construction (2 of 3).dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

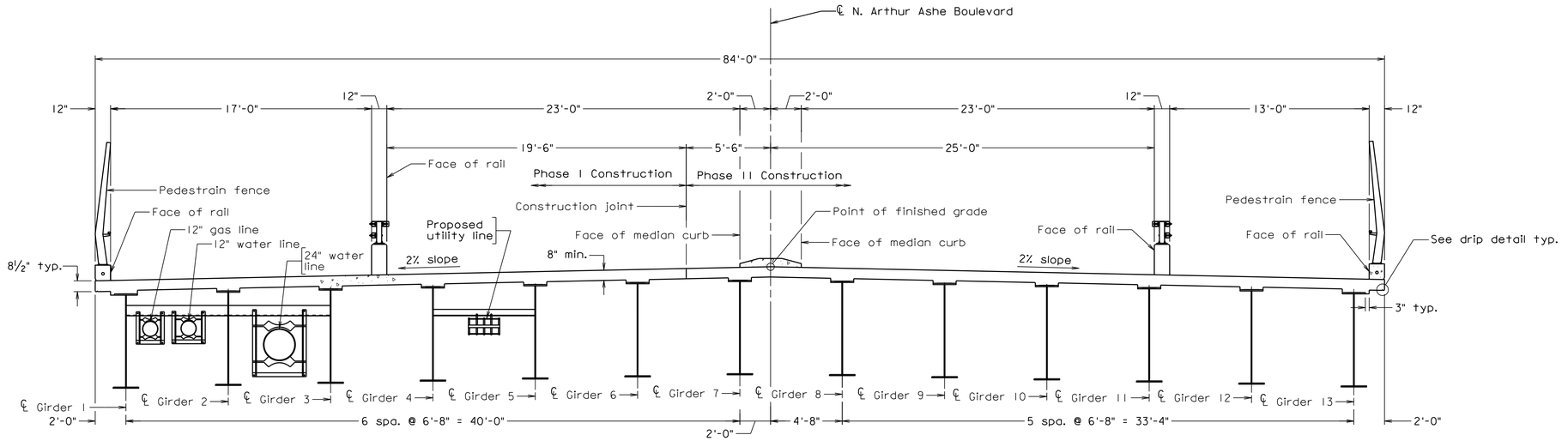
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (128-1853) BRIDGE REPLACEMENT

SEQUENCE OF CONSTRUCTION (SHEET 2 OF 3)

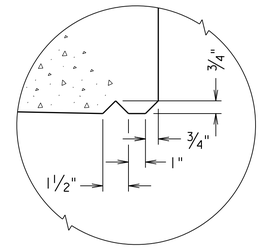
DESIGN BY: CJH	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: CJH	GSJ	———	As Noted	03/25/2025	S4.01	———
CHECKED BY: ALC						

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... G. JOHNSON
DESIGNED BY: ..... S. POPE

57064.096.S4.02_Sequence of Construction (3 of 3).dgn



TRANSVERSE SECTION - COMPLETED
Scale: ¼" = 1'-0"



DRIP DETAIL
Not to scale

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

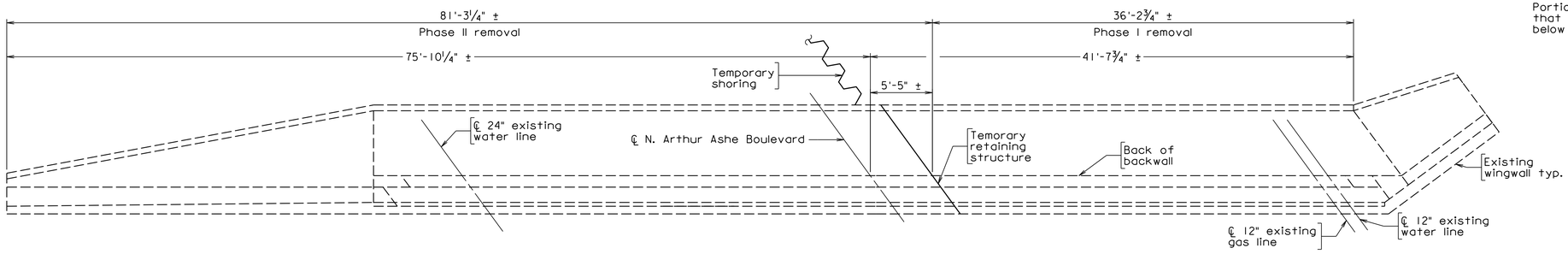
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

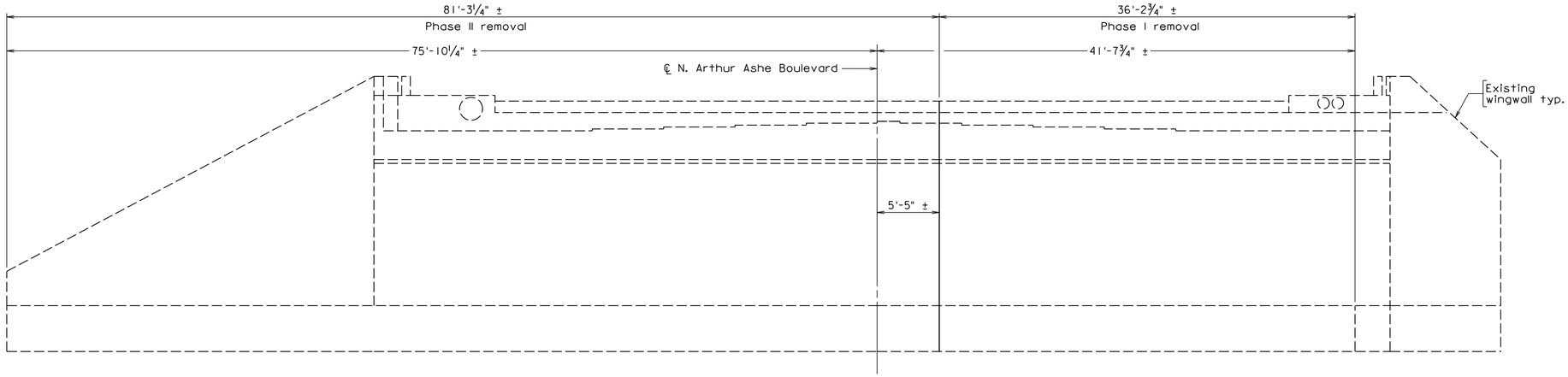
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (128-1853) BRIDGE REPLACEMENT

SEQUENCE OF CONSTRUCTION (SHEET 3 OF 3)

DESIGN BY: SMP DRAWN BY: CJH CHECKED BY: ALC	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
	GSJ	———	As Noted	03/25/2025	S4.02	———



ABUTMENT REMOVAL - PLAN



ABUTMENT REMOVAL - ELEVATION

Notes:

Portions of the existing abutment may remain in place provided that the top of the remaining portion is a minimum of 2'-0" below finished grade.

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: S. TECLEMARIAM

57064.096.S6.00 _ Abt. A _ Staged demolition plan.dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES

REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

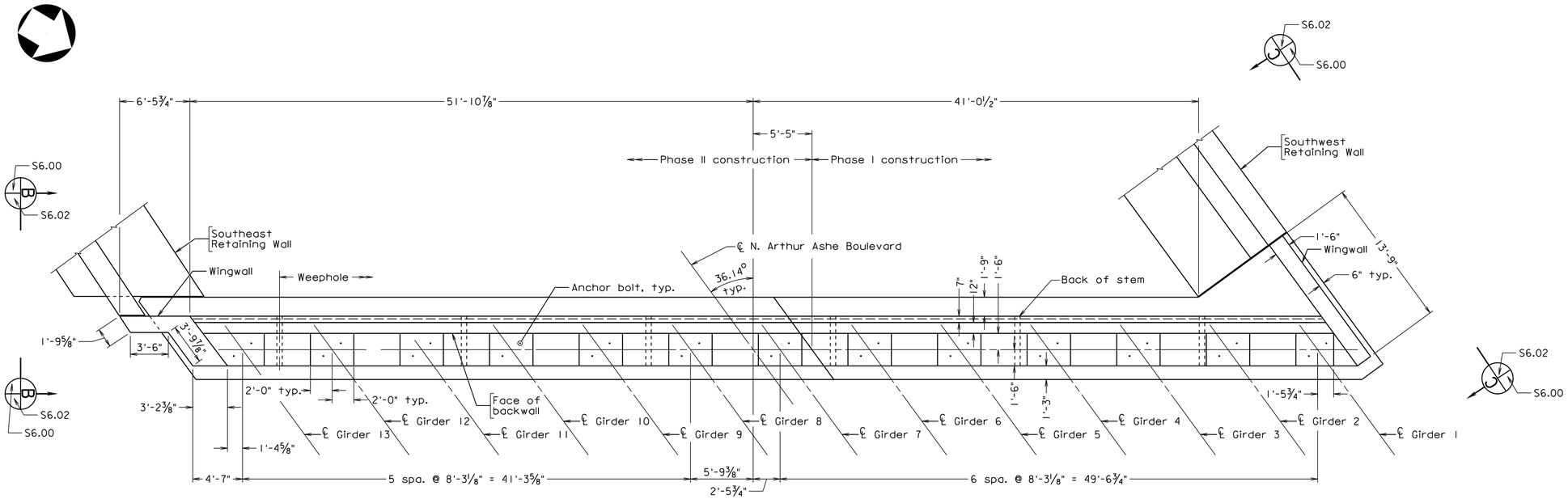
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

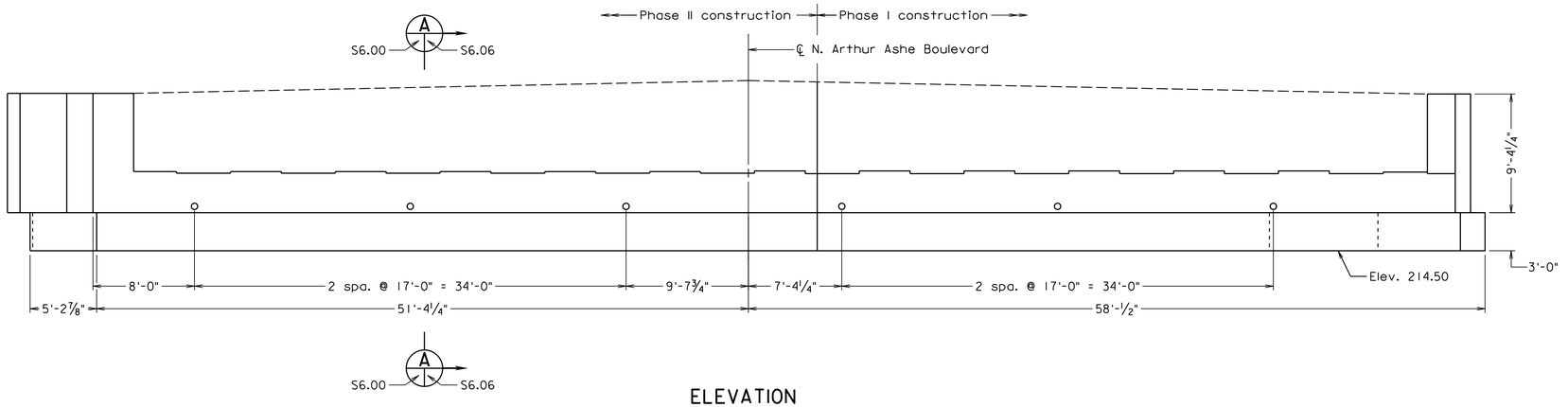
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (128-1853) BRIDGE REPLACEMENT

ABUTMENT A STAGED DEMOLITION PLAN

DESIGN BY: STT DRAWN BY: STT CHECKED BY: GJK	REVIEWED BY GSJ	FIELD NOTES ———	SCALE 3/16" = 1'-0"	DATE 03/25/2025	SHEET S6.00	DRAWING NO. ———



PLAN



ELEVATION
Piles not shown for clarity

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: S. TECLEMARIAM

57064.096.S6.01 - Abt. A - Plan and Elevation.dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

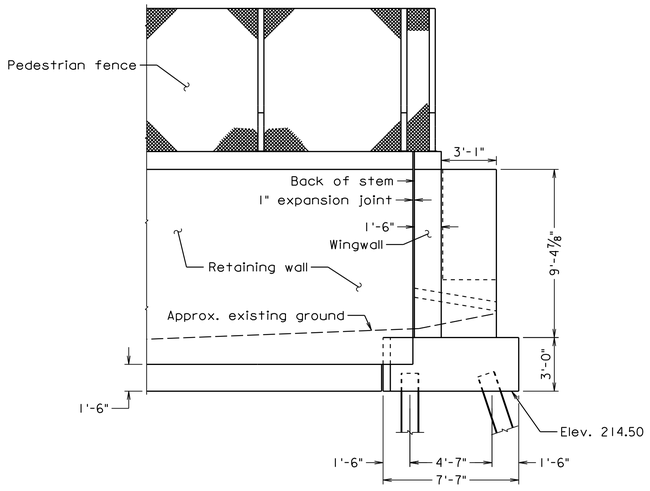
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

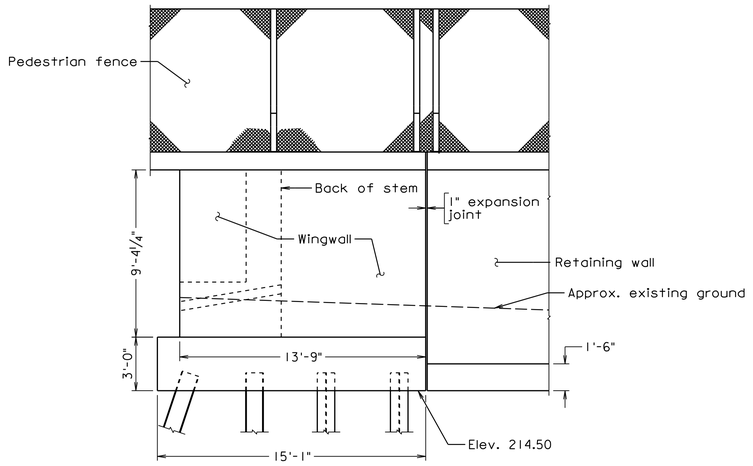
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (128-1853) BRIDGE REPLACEMENT

ABUTMENT A PLAN AND ELEVATION

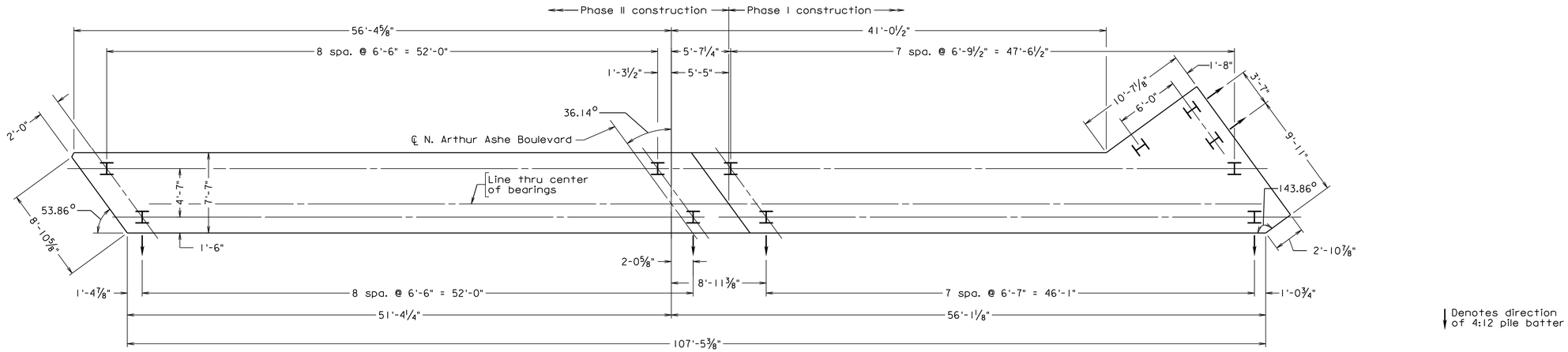
DESIGN BY: STT	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: STT	GSJ	———	3/16" = 1'-0"	03/25/2025	S6.01	———
CHECKED BY: GJK						



VIEW B
S6.00 — S6.02
Scale: ¼" = 1'-0"



VIEW C
S6.00 — S6.02
Scale: ¼" = 1'-0"



PILE AND FOOTING PLAN
Scale: 3/16" = 1'-0"

Denotes direction of 4:12 pile batter

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: S. TECLEMARIAM

57064.096.S6.02_Abt. A_Footing Plan and Details.dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

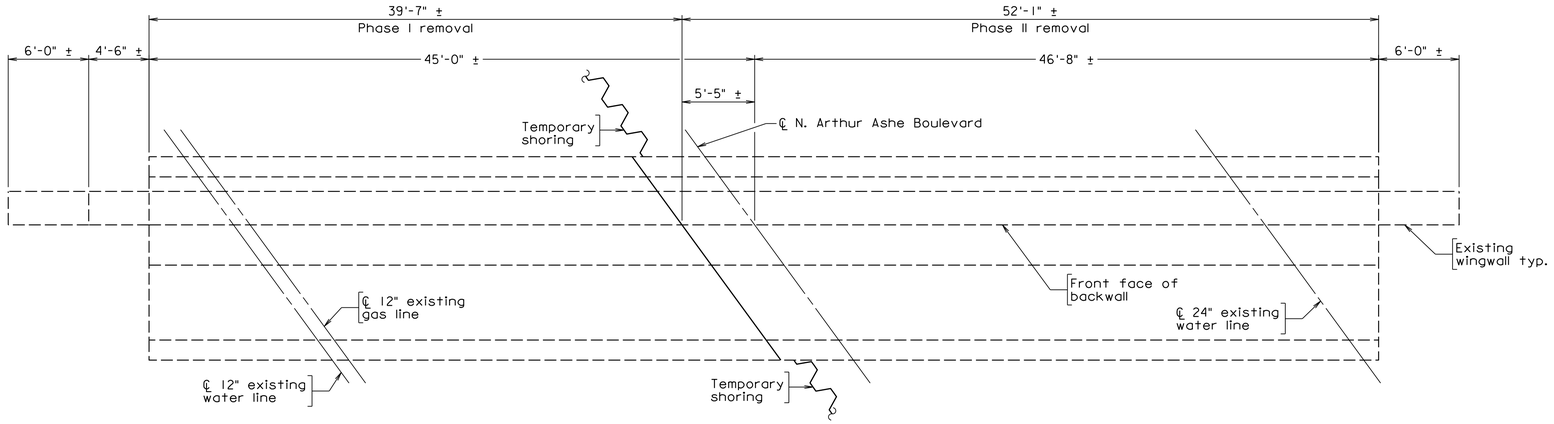
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (128-1853) BRIDGE REPLACEMENT

ABUTMENT A FOOTING PLAN AND DETAILS

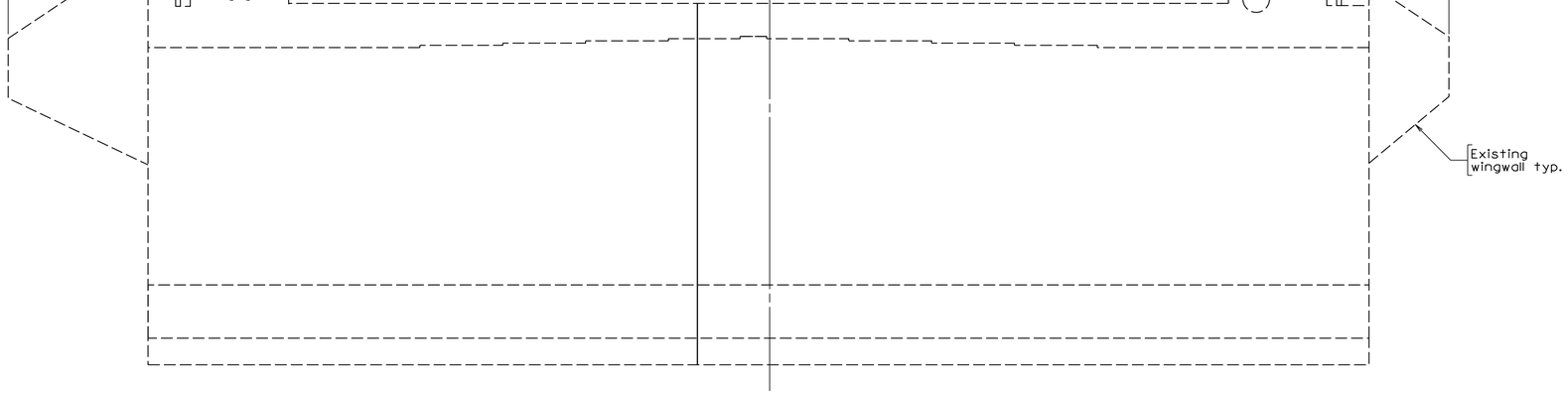
DESIGN BY: STT	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: STT	GSJ	———	As Noted	03/25/2025	S6.02	———
CHECKED BY: GJK						



ABUTMENT REMOVAL - PLAN

Notes:

Portions of the existing abutment may remain in place provided that the top of the remaining portion is a minimum of 2'-0" below existing grade.



ABUTMENT REMOVAL - ELEVATION

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: S. TECLEMARIAM

57064.096.S6.03 - Abt. B - Staged demolition plan.dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

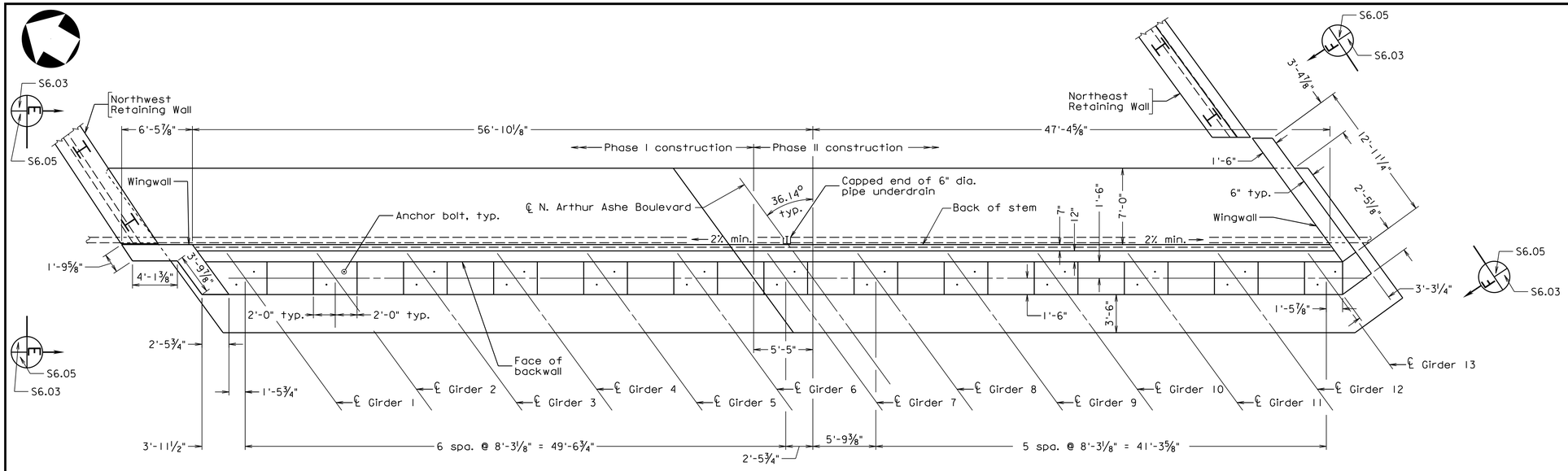
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

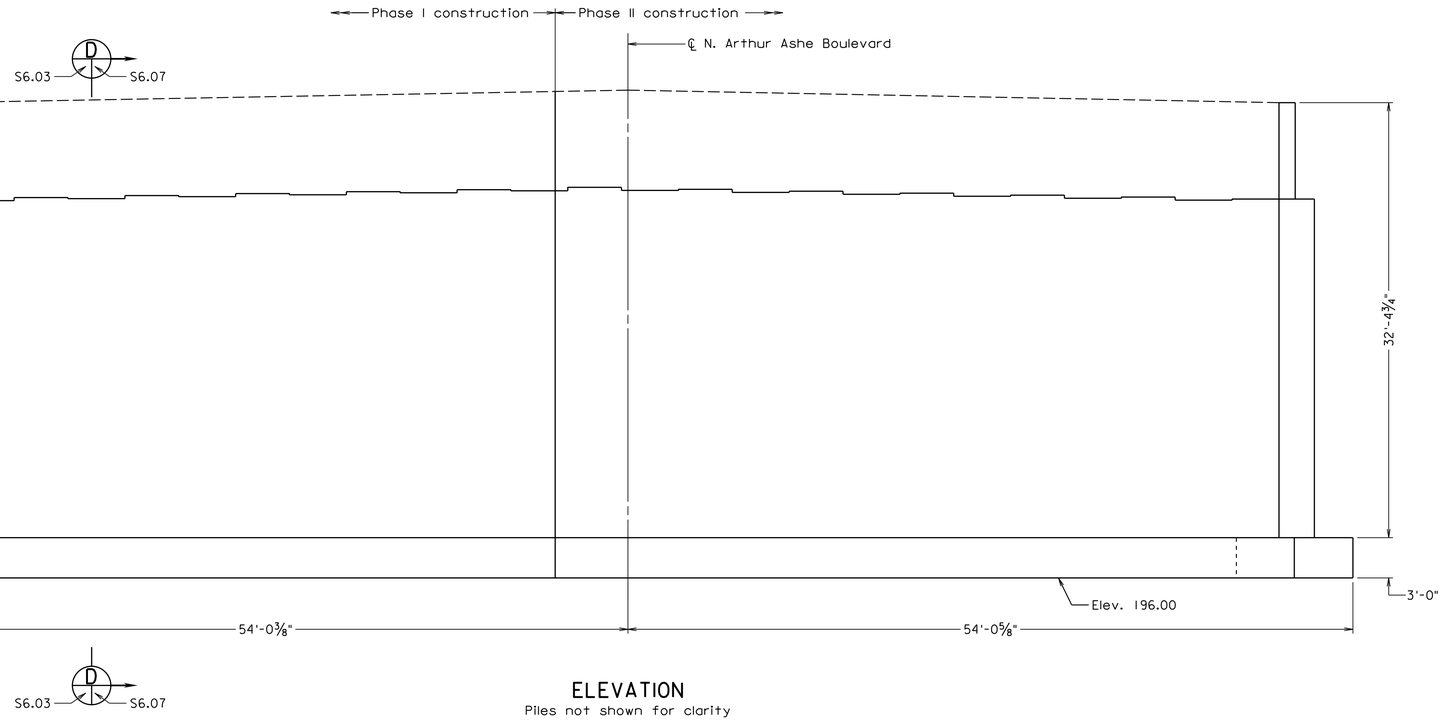
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (128-1853) BRIDGE REPLACEMENT

ABUTMENT B STAGED DEMOLITION PLAN

DESIGN BY: STT	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: STT	GSJ	———	3/16" = 1'-0"	03/25/2025	S6.03	———
CHECKED BY: GJK						



PLAN



ELEVATION

Piles not shown for clarity

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: S. TECLEMARIAM

57064.096.S6.04_Abt. B _ Plan and Elevation.dgn

NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS

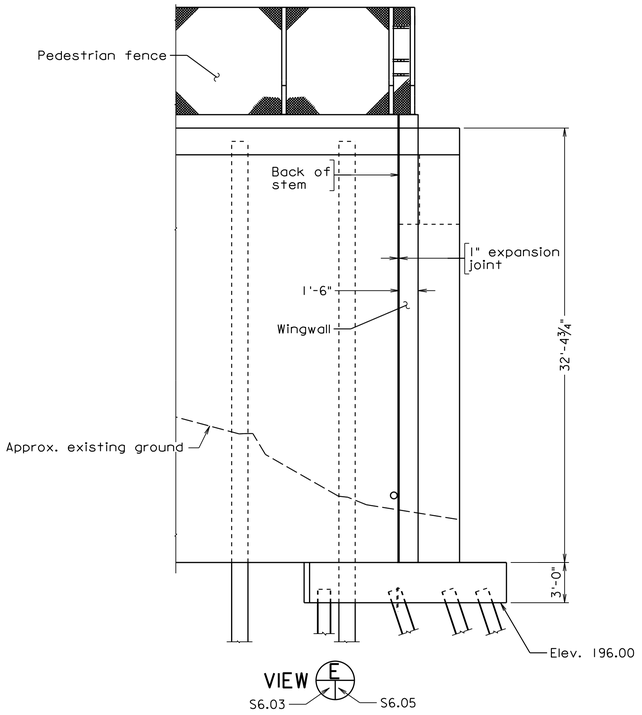
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

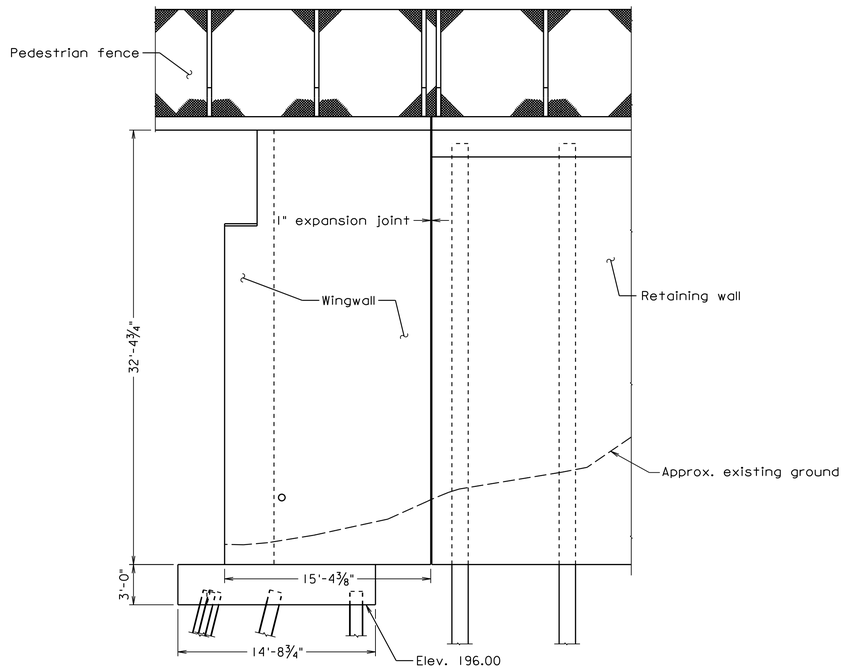
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (128-1853) BRIDGE REPLACEMENT

ABUTMENT B PLAN AND ELEVATION

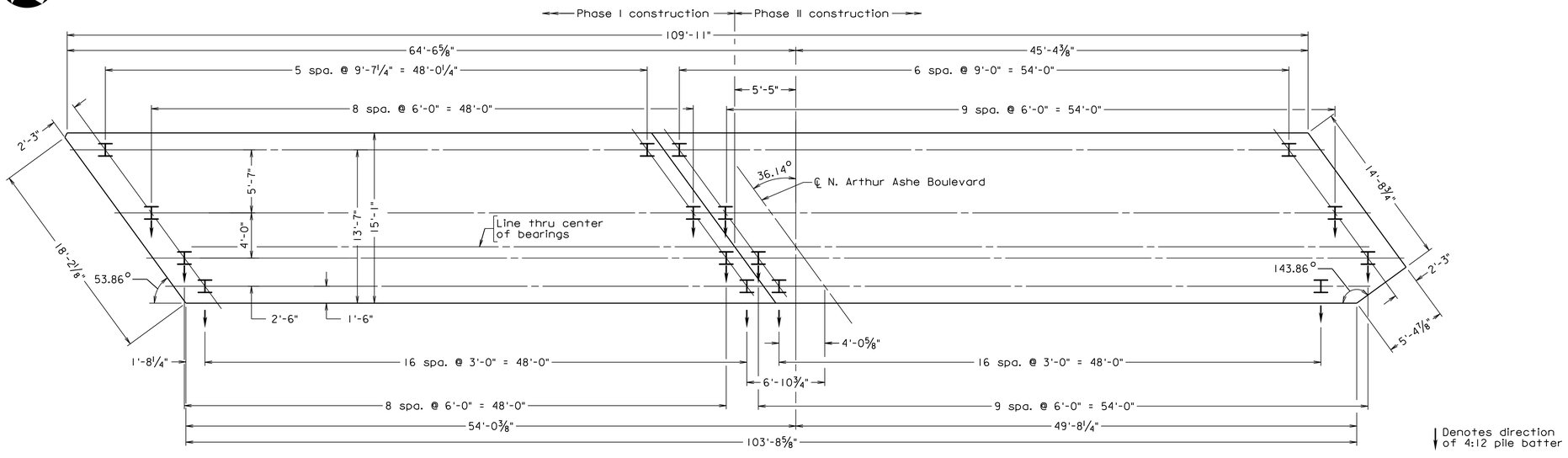
DESIGN BY: STT DRAWN BY: STT CHECKED BY: GJK	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
	GSJ	———	3/16" = 1'-0"	03/25/2025	S6.04	———



VIEW E
S6.03 — S6.05



VIEW F
S6.03 — S6.05



PILE AND FOOTING PLAN

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... G. JOHNSON
DESIGNED BY: ..... S. TECLEMARIAM

57064.096.S6.05_ Abt. B _ Footing Plan and Details.dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

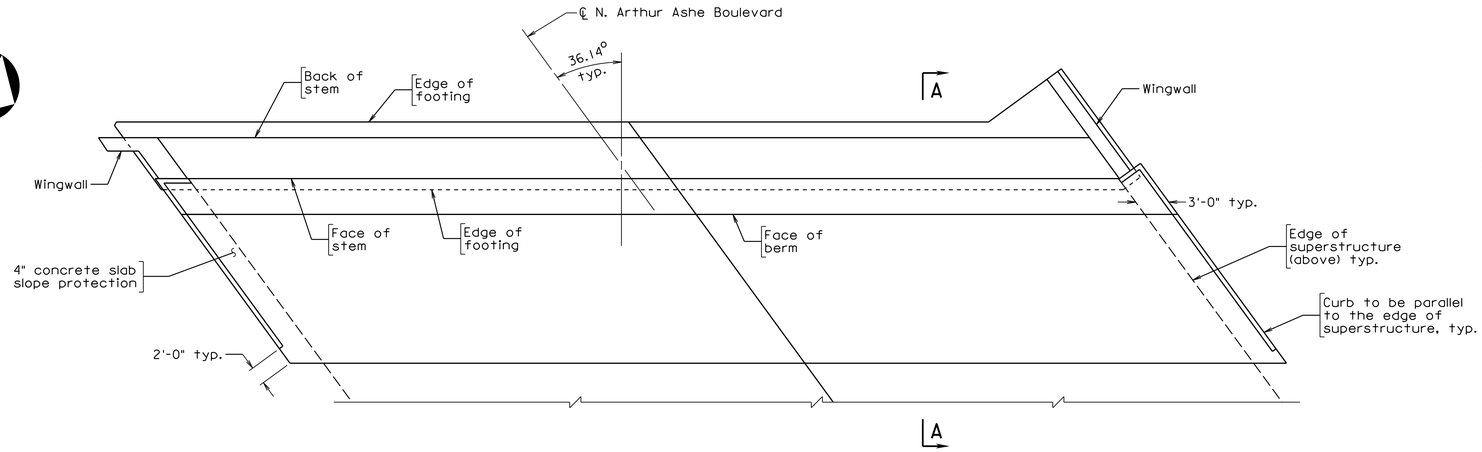
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (128-1853) BRIDGE REPLACEMENT

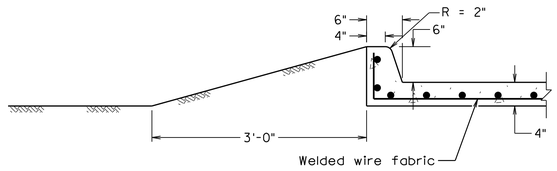
ABUTMENT B FOOTING PLAN AND DETAILS

DESIGN BY: STT DRAWN BY: STT CHECKED BY: GJK	REVIEWED BY GSJ	FIELD NOTES ———	SCALE 3/16" = 1'-0"	DATE 03/25/2025	SHEET S6.05	DRAWING NO. ———



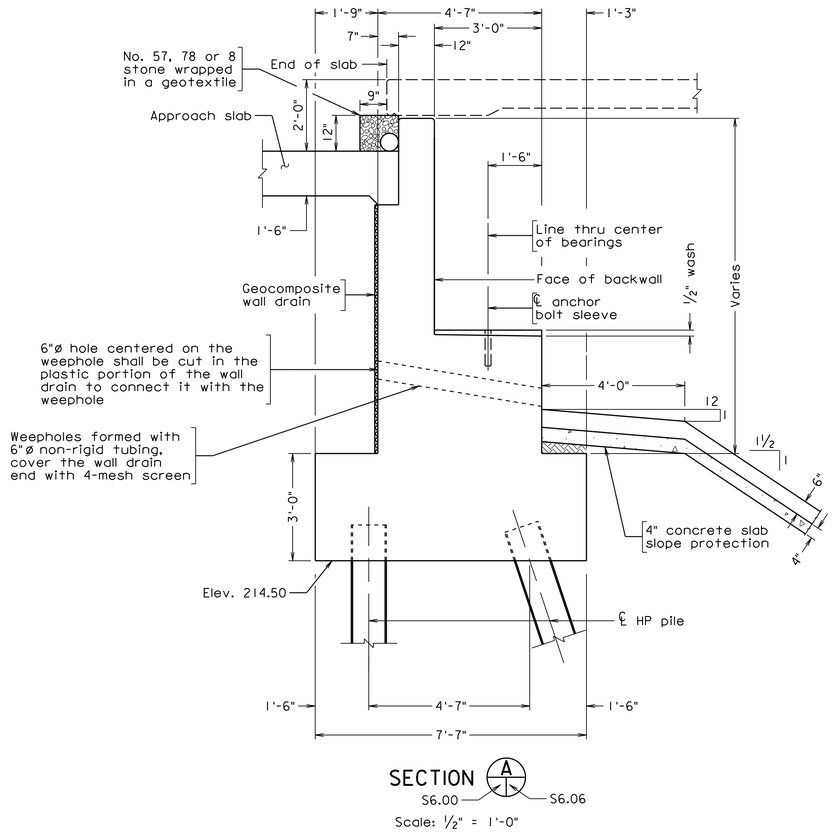
CONCRETE SLAB SLOPE PROTECTION - PLAN

Scale: 1/8" = 1'-0"



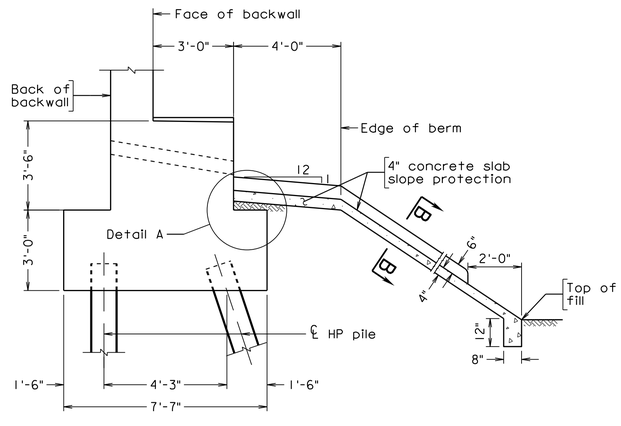
SECTION B-B

Not to scale



SECTION A (S6.00 — S6.06)

Scale: 1/2" = 1'-0"



SECTION A-A

(Normal to abutment)
Scale: 3/8" = 1'-0"

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: S. TECLEMARIAM

57064.096_S6.06_Abutment A Section and Details.dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

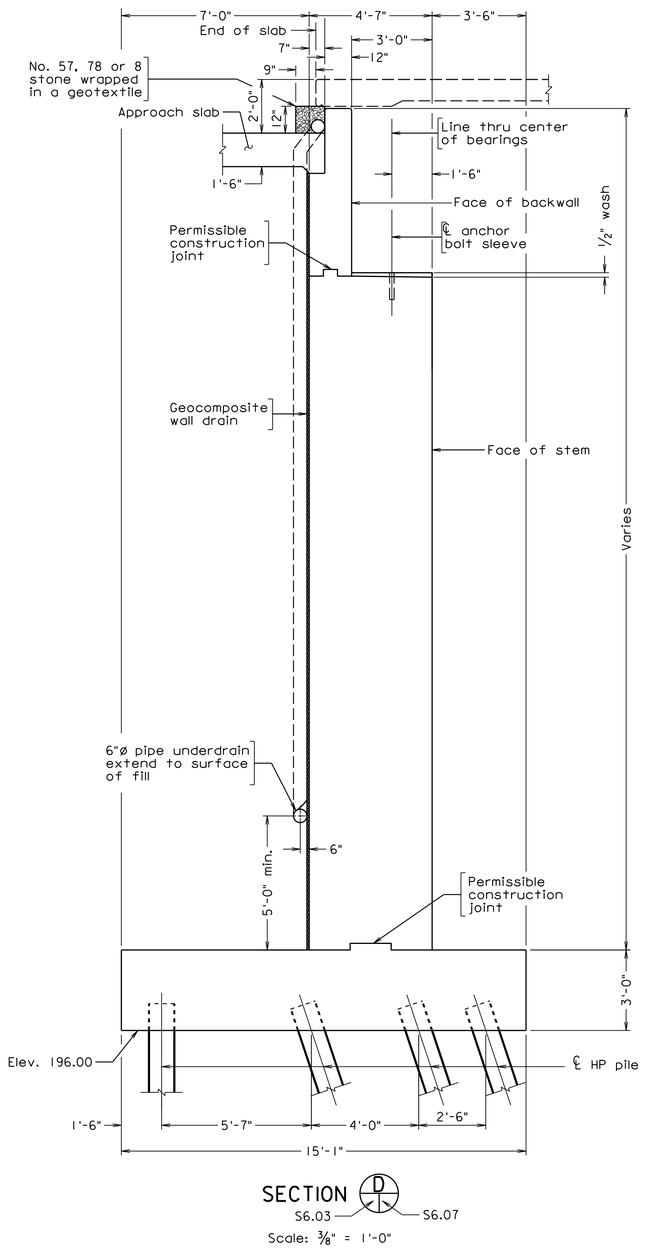
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (128-1853) BRIDGE REPLACEMENT

ABUTMENT A SECTION AND DETAILS

DESIGN BY: STT DRAWN BY: STT CHECKED BY: GJK	REVIEWED BY GSJ	FIELD NOTES —	SCALE As Noted	DATE 03/25/2025	SHEET S6.06	DRAWING NO. —



SECTION D

S6.03 — S6.07

Scale: 3/8" = 1'-0"

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: S. TECLEMARIAM

57064.096.S6.07. Abutment B Section and Details.dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

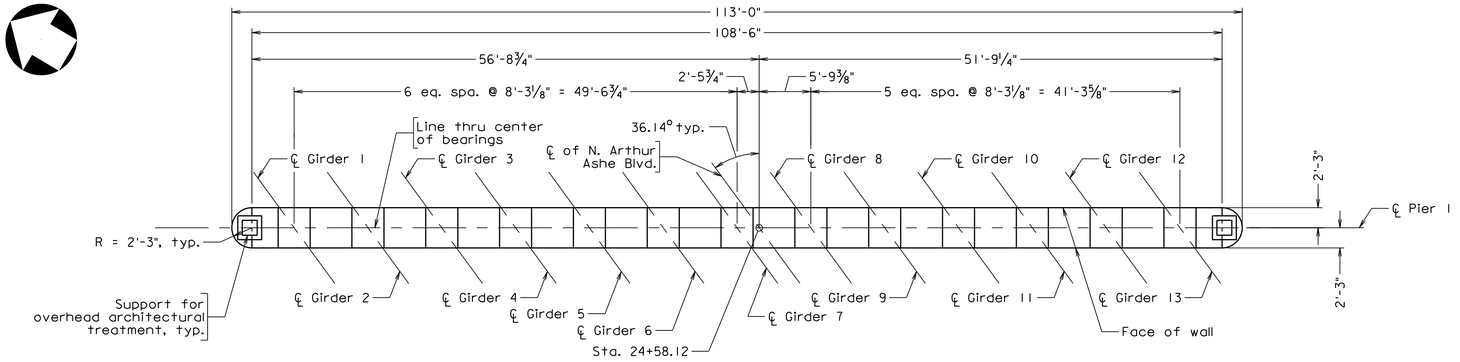
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (128-1853) BRIDGE REPLACEMENT

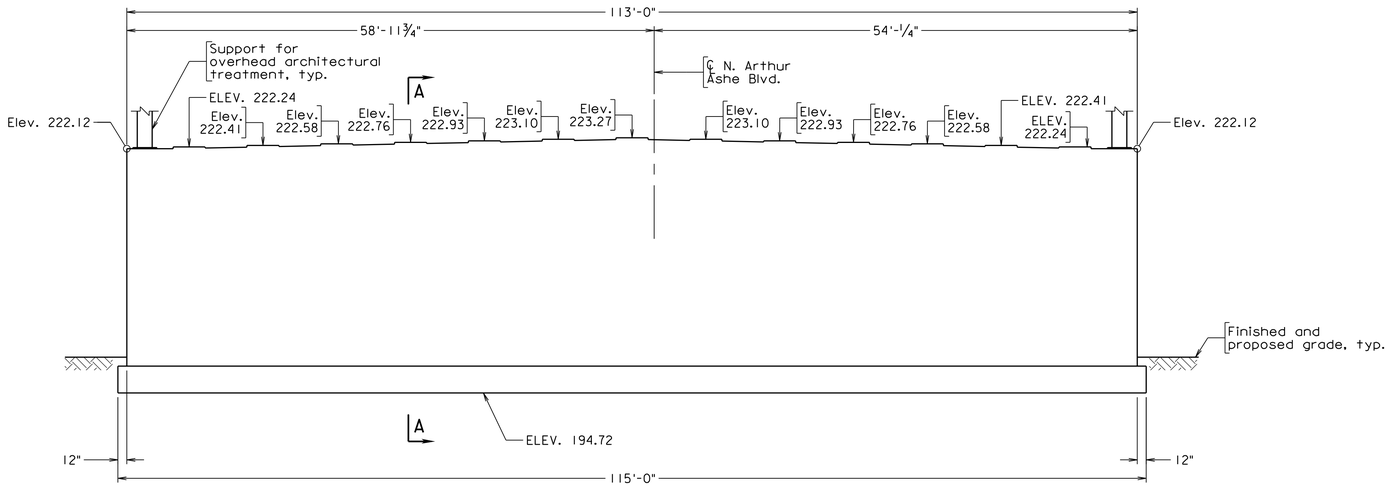
ABUTMENT B SECTION AND DETAILS

DESIGN BY: STT	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: STT	GSJ	———	As Noted	03/25/2025	S6.07	———
CHECKED BY: GJK						



PLAN OF PIER WALL

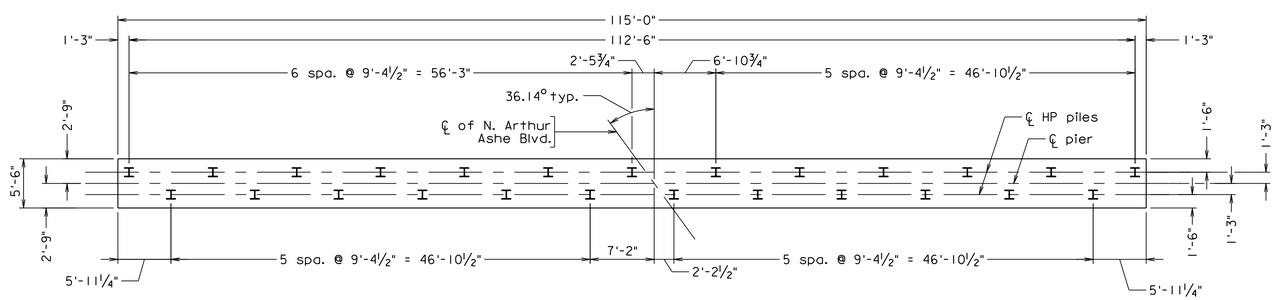
Scale: ⅛" = 1'-0"



ELEVATION

Scale: ⅛" = 1'-0"

Piles not shown for clarity.

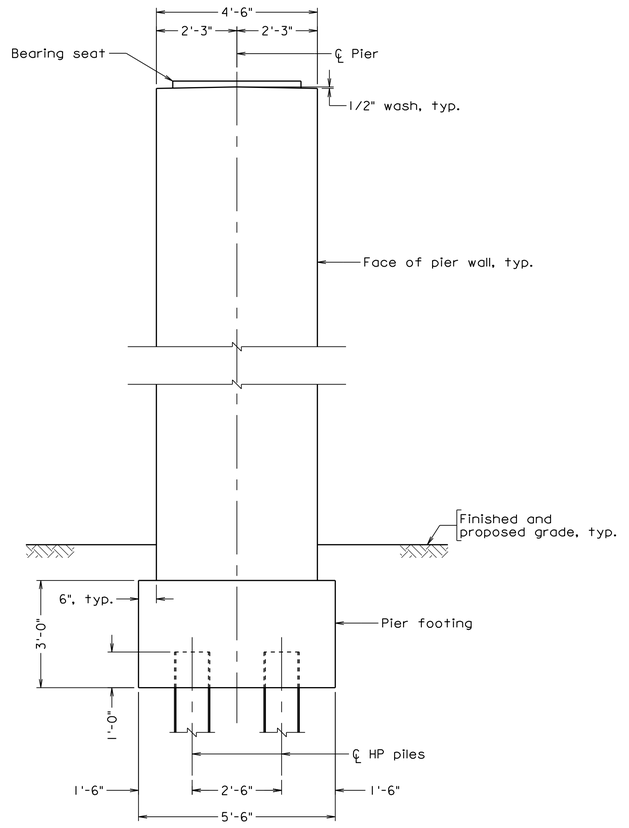


FOOTING PLAN

Scale: ⅛" = 1'-0"

Notes:

Existing piers shall be demolished in conjunction with the sequence of construction phases on sheets S3.00, S3.01 and S3.02. Portions of the existing piers may remain in place provided that the top of the remaining portion is a minimum of 2'-0" below finished grade, except for the existing pier at the proposed Abutment B location. The pier at this location shall be completely removed during the respective superstructure demolition. See sheet 6.01 for more information about demolition at the proposed location of Abutment B.



SECTION A-A

Scale: ½" = 1'-0"

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... G. JOHNSON
DESIGNED BY: ..... H. FIGAN

57064.096.S7.00_Pier Plan and Elevation.dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

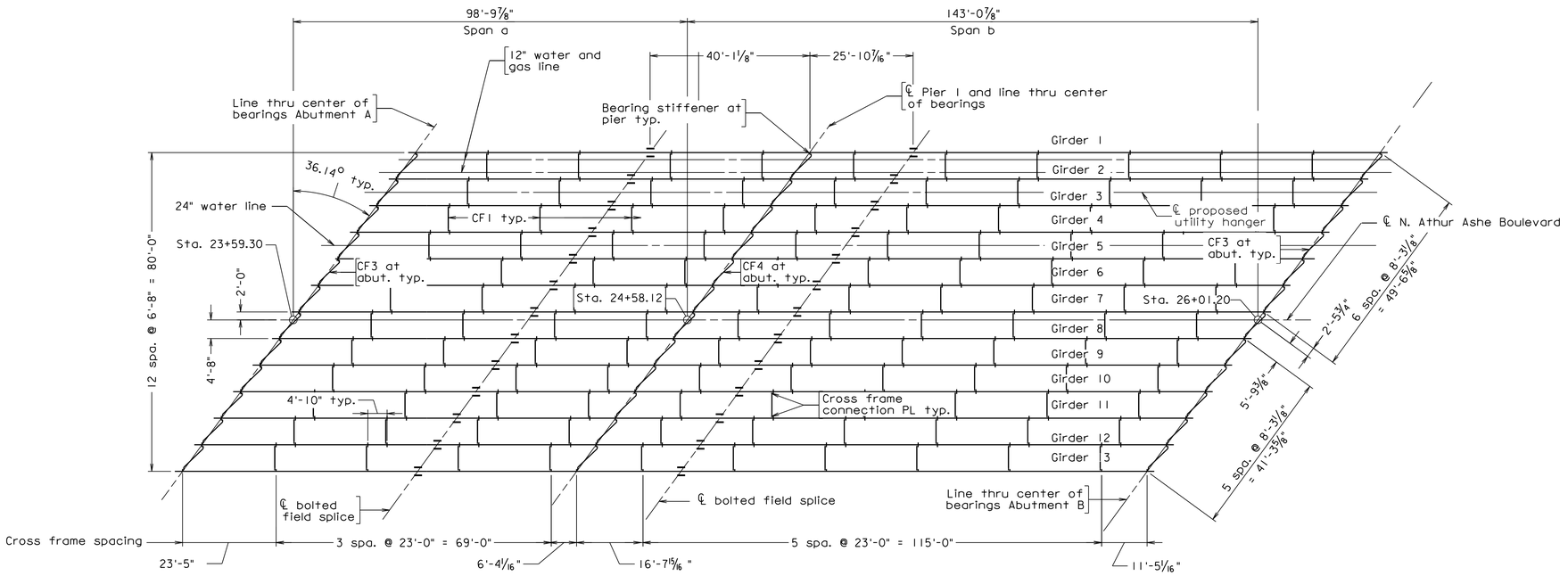
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (128-1853) BRIDGE REPLACEMENT

PIER 1 PLAN AND ELEVATION

DESIGN BY: HJF	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: HJF	GSJ	———	As Noted	03/25/2025	S7.00	———
CHECKED BY: TWL						

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... G. JOHNSON
DESIGNED BY: ..... S. POPE

57064.096_S9.00_Framing Plan.dgn



FRAMING PLAN

Notes:

For bolted splice details, see sheet 25.

For girder details, see sheet 24.

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

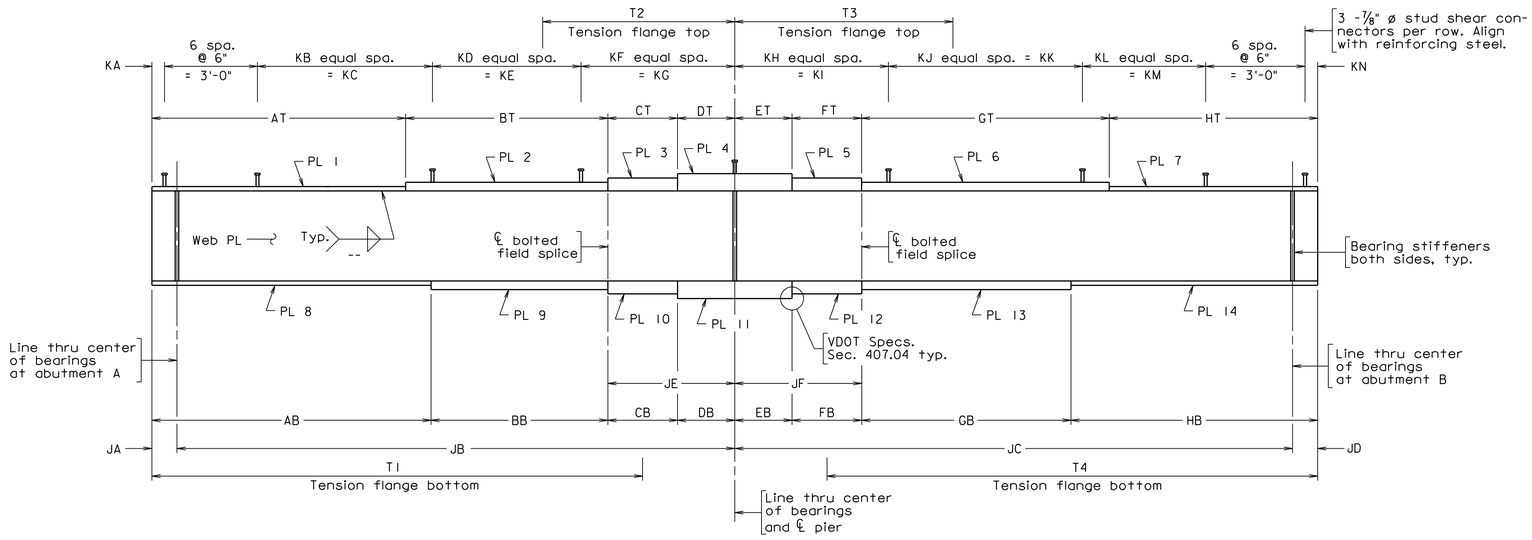
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (128-1853) BRIDGE REPLACEMENT

FRAMING PLAN

DESIGN BY: SMP	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: SJB	GSJ	———	1/16" = 1'-0"	03/25/2025	S9.00	———
CHECKED BY: ALC						

SCDET2 MOD. 04-30-2020

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: S. POPE



GIRDER ELEVATION

Notes:

For spacing of intermediate diaphragm connector plates and transverse web stiffener plates, see Framing Plan, sheet 22.

For spacing of stud shear connectors in vicinity of bolted field splice, see Bolted Splice Details, sheet 25.

The top and bottom flanges as shown in Girder Elevation, the web and all splice plates are areas of tensile stress for Charpy V-Notch impact requirements.

If the Contractor chooses to eliminate one or more bolted field splice(s), the Contractor shall submit their shipping and erection plans along with the shop drawings to the Department for review and approval. The shipping and erection plans shall be signed and sealed by a Professional Engineer, holding a valid license to practice engineering in the Commonwealth of Virginia. Approval for eliminating of a bolted field splice does not imply issuance of a hauling permit.

Symbol ø = diameter.

PLATE DIMENSION TABLE

Girder	Web PL	PL 1	PL 2	PL 3	PL 4	PL 5	PL 6	PL 7	PL 8	PL 9	PL 10	PL 11	PL 12	PL 13	PL 14
ALL	72	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX

TENSION FLANGES

Girder	T1	T2	T3	T4
ALL	XX	XX	XX	XX

GIRDER DIMENSION TABLE

Girder	AB	AT	BB	BT	CB	CT	DB	DT	EB	ET	FB	FT	GB	GT	HB	HT
ALL	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX

GIRDER DIMENSION TABLE

Girder	JA	JB	JC	JD	JE	JF	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KK	KL	KM	KN
ALL	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX

57064.096_S9.01_Girder Elevation.dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

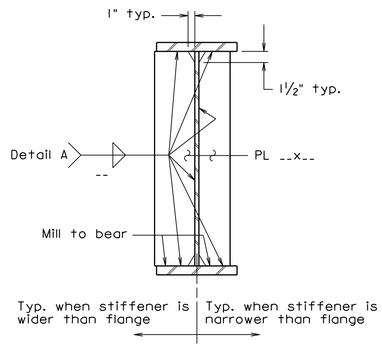
30% PLANS
NOT FOR CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

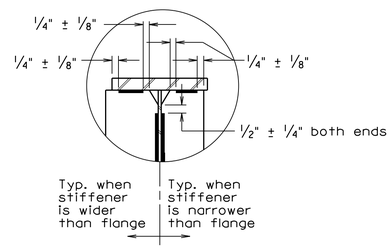
TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (128-1853) BRIDGE REPLACEMENT
GIRDER ELEVATION

DESIGN BY: SMP	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: SJB	GSJ	———	N.T.S.	03/25/2025	S9.01	———
CHECKED BY: ALC						



BEARING STIFFENERS



DETAIL A

Notes:

The Contractor has the option of eliminating the transverse intermediate stiffeners by increasing the web thickness to X".

For spacing of intermediate diaphragm connector plates and transverse web stiffener plates, see Framing Plan, sheet 22.

For spacing of stud shear connectors in vicinity of bolted field splice, see Bolted Splice Details, sheet 25.

If the Contractor chooses to eliminate one or more bolted field splice(s), the Contractor shall submit their shipping and erection plans along with the shop drawings to the City for review and approval. The shipping and erection plans shall be signed and sealed by a Professional Engineer, holding a valid license to practice engineering in the Commonwealth of Virginia. Approval for eliminating of a bolted field splice does not imply issuance of a hauling permit.

Symbol ø = diameter.

CROSS FRAME CONNECTOR PLATE

TRANSVERSE INTERMEDIATE STIFFENER

Note A: -- fillet weld (both sides) to compression flange(s). Tight fit to tension flange(s).

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: S. POPE

57064.096.S9.02.Girder Details.dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

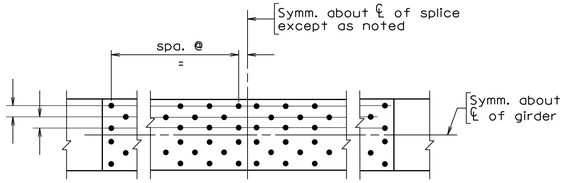
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

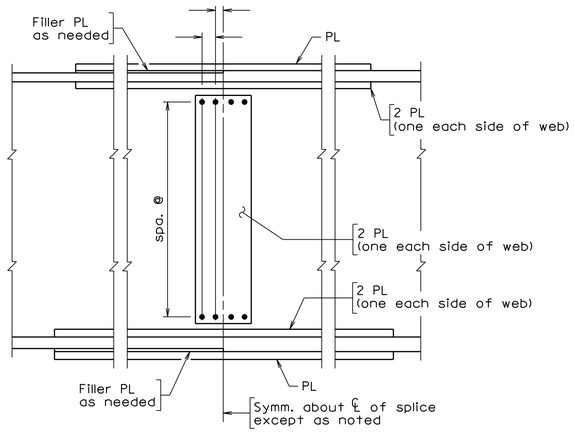
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (128-1853) BRIDGE REPLACEMENT

GIRDER DETAILS

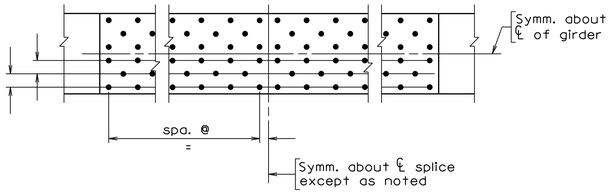
DESIGN BY: SMP DRAWN BY: SJB CHECKED BY: ALC	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
	GSJ	———	N.T.S.	03/25/2025	S9.02	———



TOP FLANGE



WEB



BOTTOM FLANGE
BOLTED SPLICE DETAILS

Notes:

Stud shear connectors on top flange not shown. For spacing, see girder details, sheet 24.

If Contractor increases the girder web thickness in order to eliminate the transverse stiffeners, no change will be made in the web splice.

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: S. POPE

SGBSPL 06-14-2010

57064.096.S9.03.Bolted Splice Details.dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

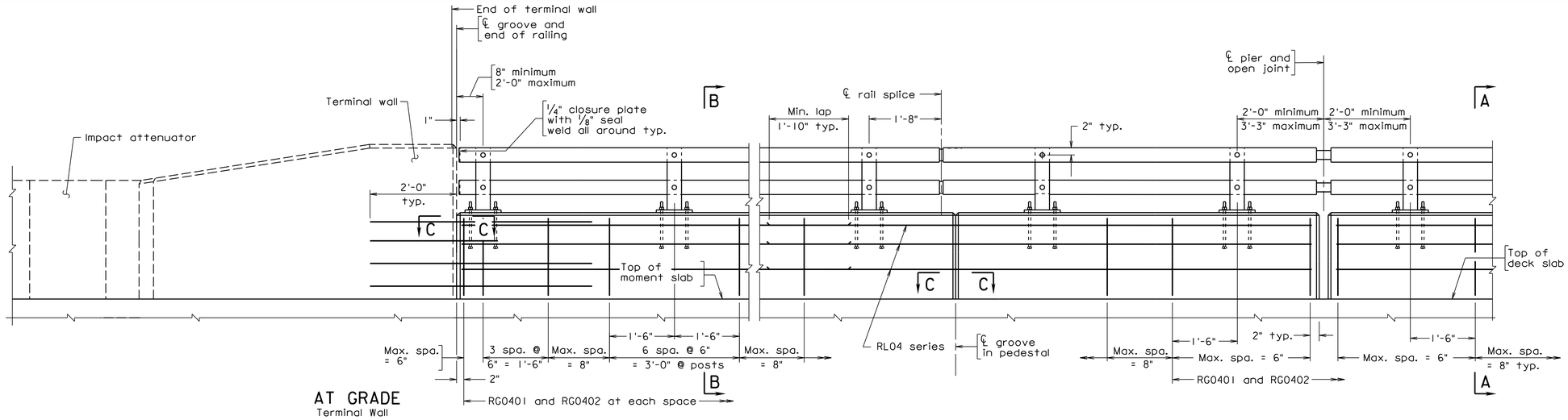
TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (128-1853) BRIDGE REPLACEMENT
BOLTED SPLICE DETAILS

DESIGN BY: SMP DRAWN BY: SJB CHECKED BY: ALC	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
	GSJ	———	N.T.S.	03/25/2025	S9.03	———

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: S. POPE

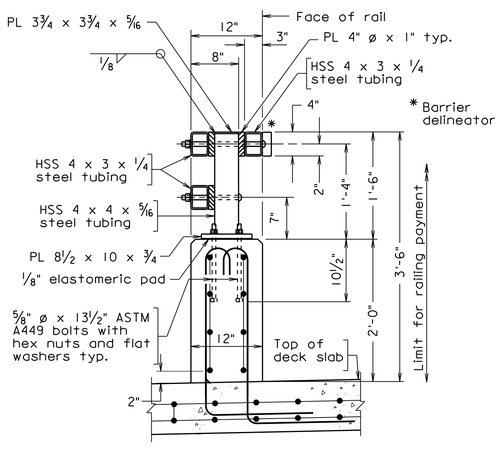
CPSR-2 MOD. 10-31-2023



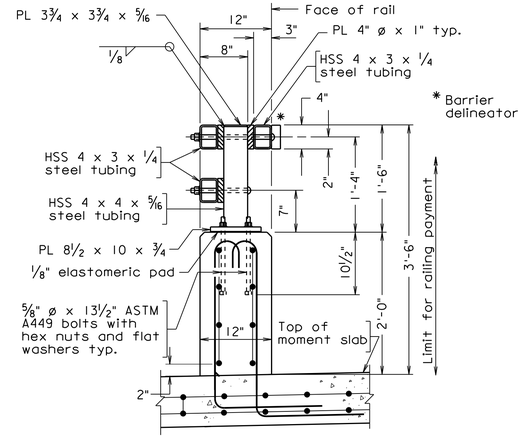
AT GRADE
Terminal Wall

ABUTMENTS

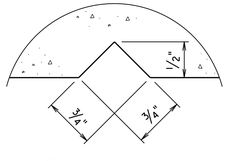
ELEVATION
Scale: ¾" = 1'-0"



SECTION A-A
Scale: 1" = 1'-0"
Transverse rebars in deck slab not shown for clarity



SECTION B-B
Scale: 1" = 1'-0"
Transverse rebars in deck slab not shown for clarity



SECTION C-C
Full scale
Groove detail for both sides of rail

Notes:

Plan dimensions shown are measured in the respective horizontal and vertical planes.

The Contractor shall determine all dimensions and details necessary for installation.

All concrete shall be Low Shrinkage Class A4 Modified.

All bevels for concrete shall be ¾".

All reinforcing steel shall be Corrosion Resistant Reinforcing Steel, Class III.

For details and reinforcing steel schedule of terminal wall, see sheet 33.

Posts and rail members, including pipe sleeves, shall be ASTM A500 Grade B steel. Plates shall be ASTM A36 steel. Charpy V-notch testing is not required for HSS members.

Bolts for attaching rails to post are ¾" diameter round head (with slot in head), ASTM A449.

For bolts attaching rails to posts, bolt extensions beyond nut shall be limited to the smaller of one and a half finishing turns or ¼". If the extension is longer, excess shall be cut off and the edges of the bolt end ground so that no sharp edges remain. Cold galvanizing shall be applied to damaged galvanized areas.

All bolts shall be snug tightened.

All steel, including hardware, shall be hot dip galvanized.

Posts shall be equally spaced within a span. Maximum spacing is 6'-8".

Posts shall be seated on neoprene pads ⅛" minimum thickness, having a nominal durometer hardness of 60. Pads shall conform to post base dimensions.

Posts shall be vertical in transverse direction and normal to longitudinal profile grade. Cut bottom of posts to meet these configurations.

Rails to be continuous over a minimum of 3 posts before splicing.

For additional notes, see sheet for the CPSR-3.

After galvanizing, all exposed surfaces, including all hardware (except hardware attaching the post base plates), shall be powder coated in accordance with the Special Provision for Powder Coated Galvanized Material. Finished color shall be brown, Federal Standard Color No. 595-20059.

After railing installations are completed, galvanized hardware used in the attachment of post base plates shall be field coated using System F. The coating shall match the specified railing color.

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (128-1853) BRIDGE REPLACEMENT

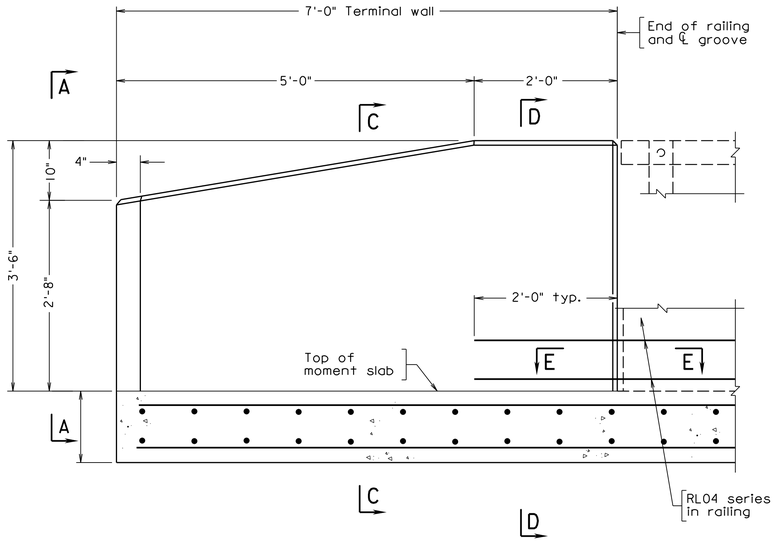
42" CPSR RAILING (CPSR-2)

DESIGN BY: SMP DRAWN BY: SJB CHECKED BY: ALC	REVIEWED BY GSJ	FIELD NOTES ——	SCALE As Noted	DATE 03/25/2025	SHEET S11.00	DRAWING NO. ——

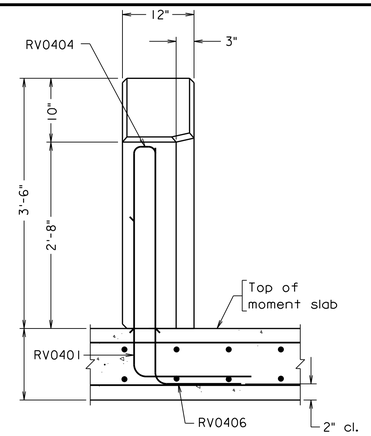
57064.096.S11.00_CPSR-2.dgn

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... G. JOHNSON
DESIGNED BY: ..... S. POPE

CPSRT-4 MOD. 04-30-2024



TERMINAL WALL OVER MOMENT SLAB
Scale: 1" = 1'-0"



VIEW A-A
Showing RV04 bars only for clarity
Scale: 1" = 1'-0"

Notes:

Plan dimensions shown are measured in the respective horizontal and vertical planes.

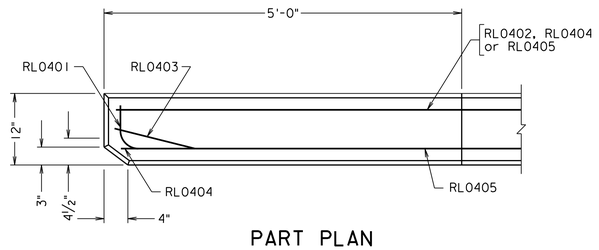
The Contractor shall determine all dimensions and details necessary for installation.

All concrete shall be Low Shrinkage Class A4 Modified.

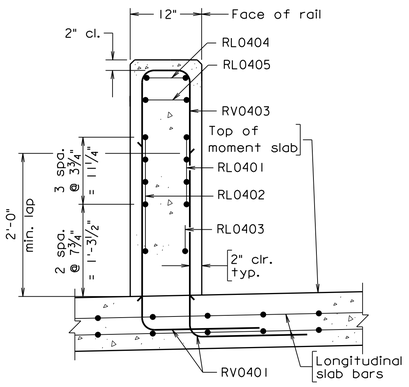
All bevels for concrete shall be ¾".

All reinforcing steel shall be Corrosion Resistant Reinforcing Steel, Class III.

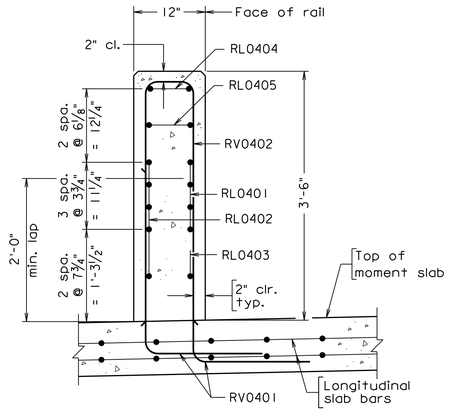
Each terminal wall shall be cast as one piece.



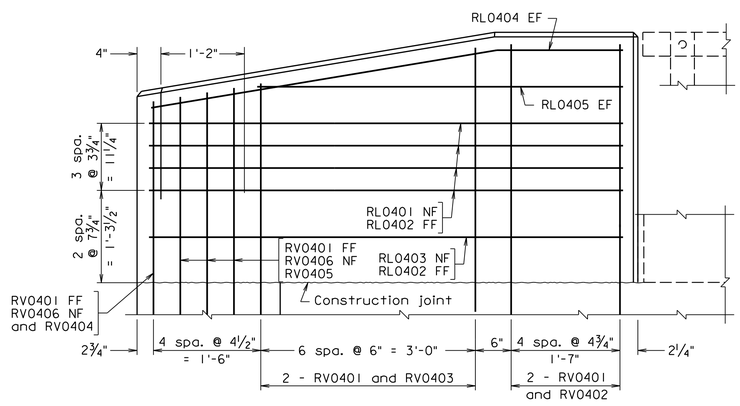
PART PLAN
Scale: 1" = 1'-0"



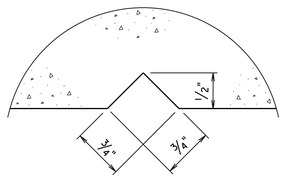
SECTION C-C
Transverse slab bar not shown for clarity
Scale: 1" = 1'-0"



SECTION D-D
Transverse bars in moment slab and RL04 series extended from railing not shown for clarity
Scale: 1" = 1'-0"



TERMINAL WALL- ELEVATION
Scale: 1" = 1'-0"



SECTION E-E
Full scale
Groove detail for both sides of rail

57064.096_S11.01_Terminal Wall.dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

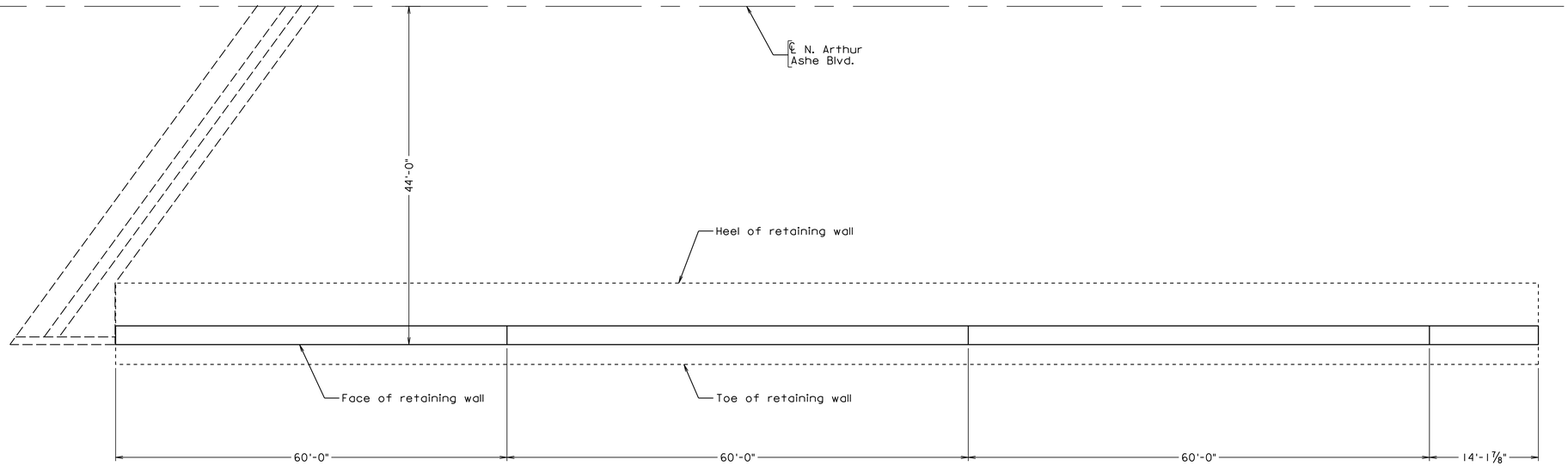
TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (128-1853) BRIDGE REPLACEMENT

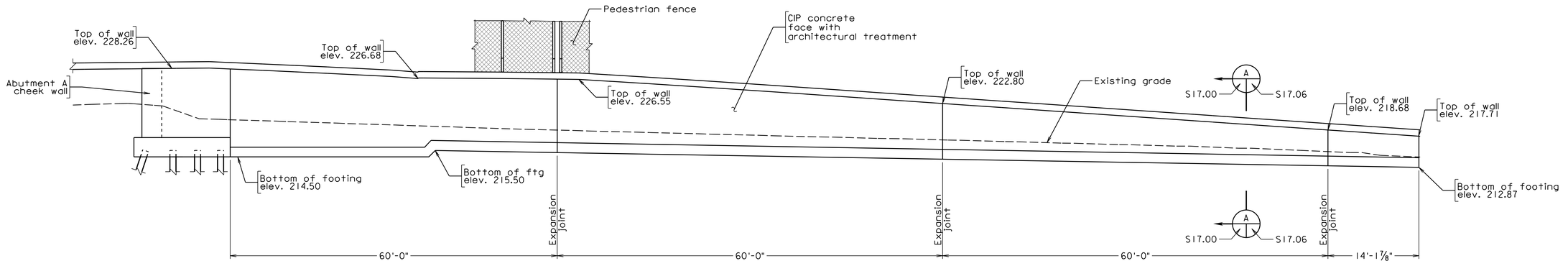
42" CPSR TERMINAL WALL (CPSRT-4)

DESIGN BY: SMP	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: SJB	GSJ	———	As Noted	03/25/2025	S11.01	———
CHECKED BY: ALC						

Notes:
For wall details see sheets S17.06 - S17.07



SOUTHWEST WALL PLAN



SOUTHWEST WALL ELEVATION

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: S. TECLEMARIAM

57064.096.S17.00_South Approach Retaining Wall (1 of 2).dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

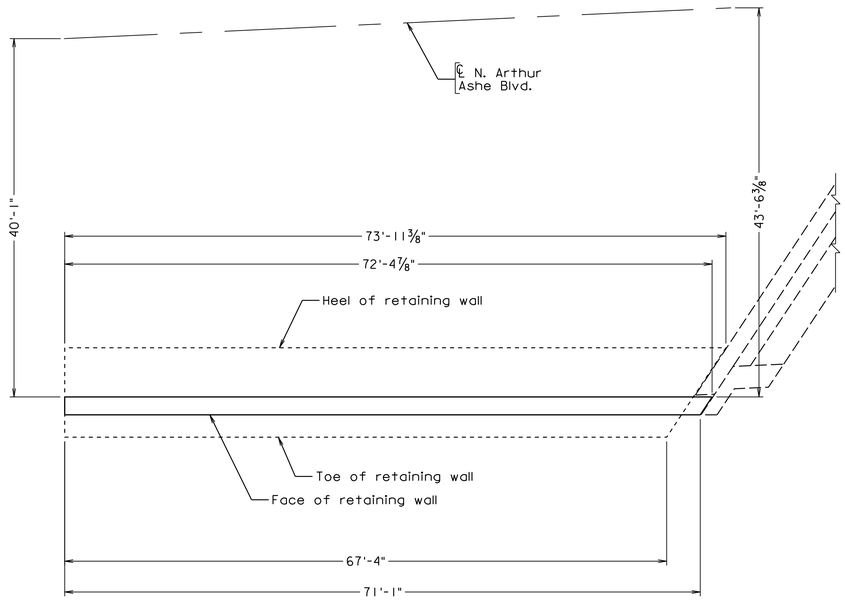
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

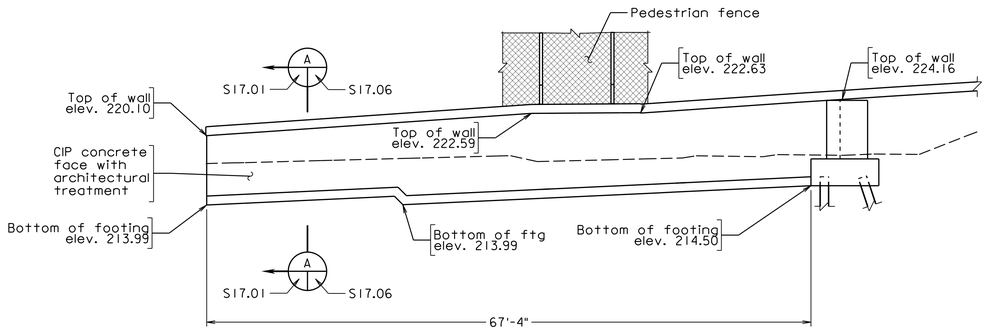
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (128-1853) BRIDGE REPLACEMENT
SOUTHWEST WALL ELEVATION

DESIGN BY: STT	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: STT	GSJ	———	⅛" = 1'-0"	03/25/2025	S17.00	———
CHECKED BY: GJK						

Notes:
For wall details see sheets S17.06 - S17.07



SOUTHEAST WALL PLAN



SOUTHEAST WALL ELEVATION

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: S. TECLEMARIAM

57064.096.S17.01.South Approach Retaining Wall 12 of 21.dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

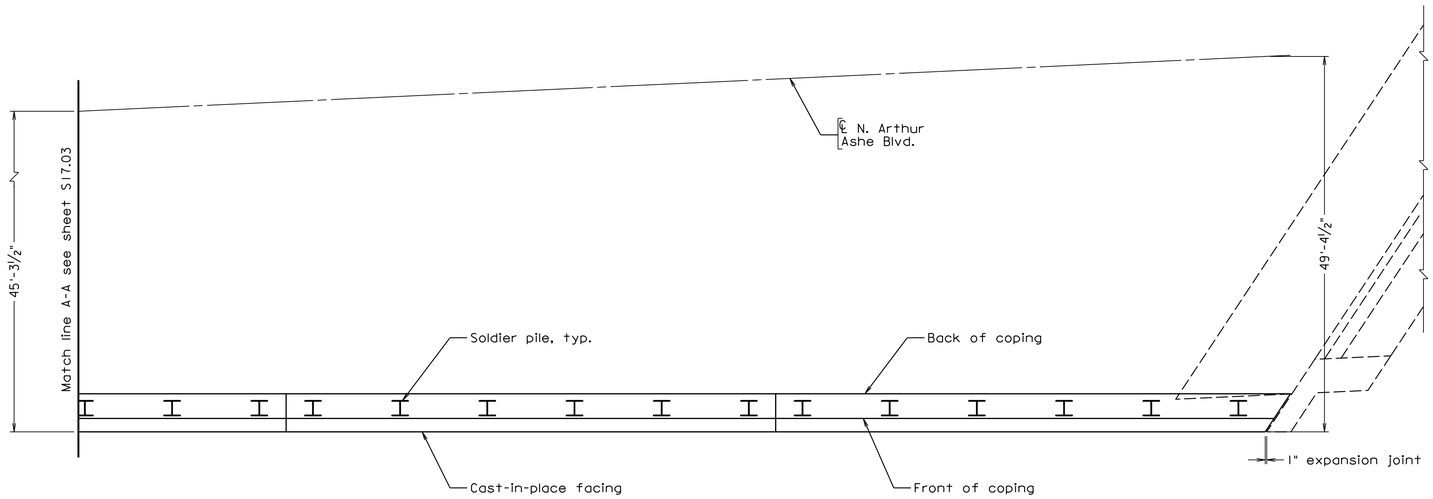
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

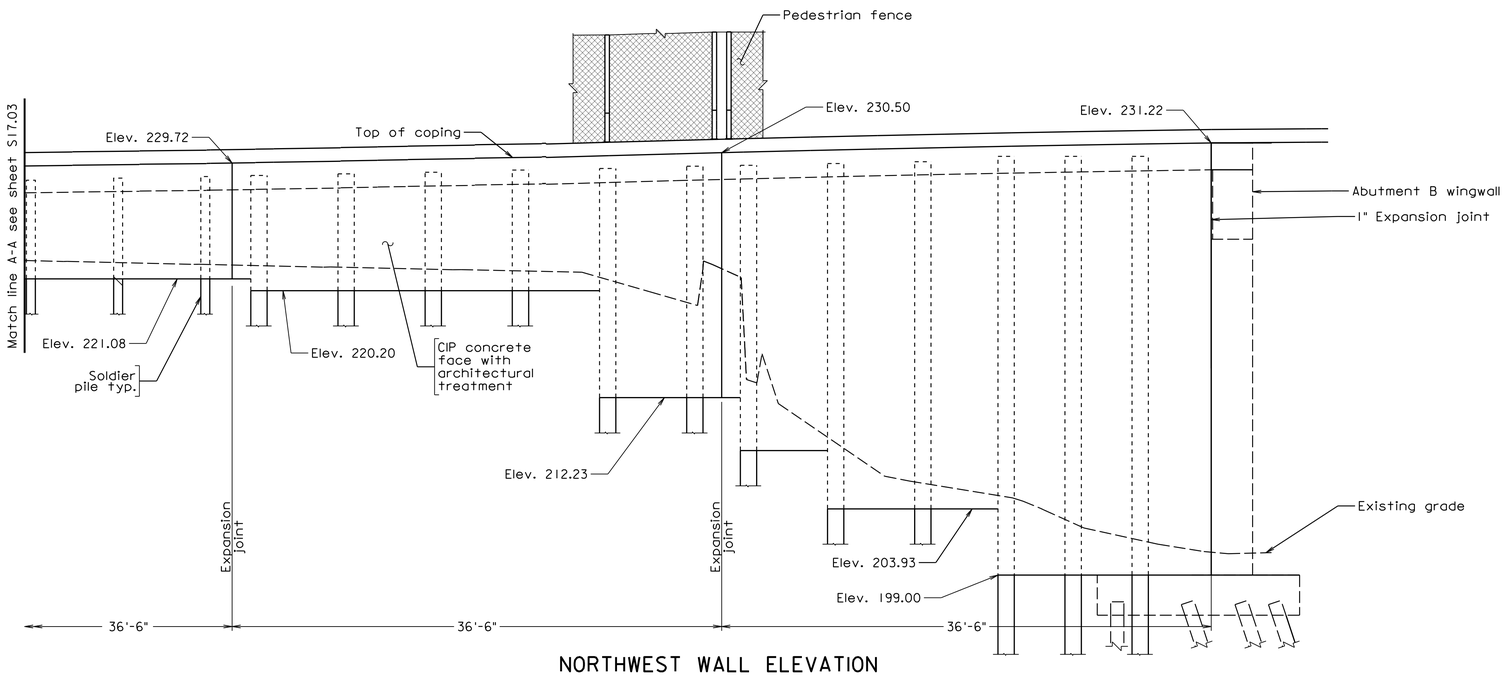
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (128-1853) BRIDGE REPLACEMENT
SOUTHEAST WALL ELEVATION

DESIGN BY: STT DRAWN BY: STT CHECKED BY: GJK	REVIEWED BY GSJ	FIELD NOTES ———	SCALE ⅛" = 1'-0"	DATE 03/25/2025	SHEET S17.01	DRAWING NO. ———

Notes:
For wall details see sheets S17.06 - S17.07



NORTHWEST WALL PLAN



NORTHWEST WALL ELEVATION

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: S. TECLEMARIAM

57064.096.S17.02_Northwest Wall Elevation (1 of 2).dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

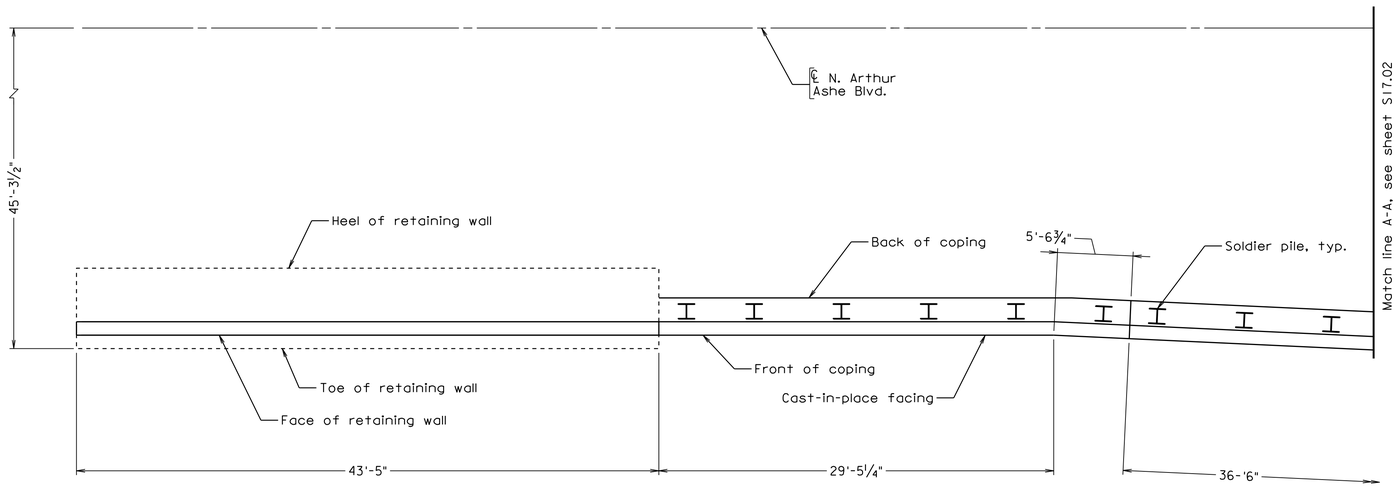
TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (128-1853) BRIDGE REPLACEMENT

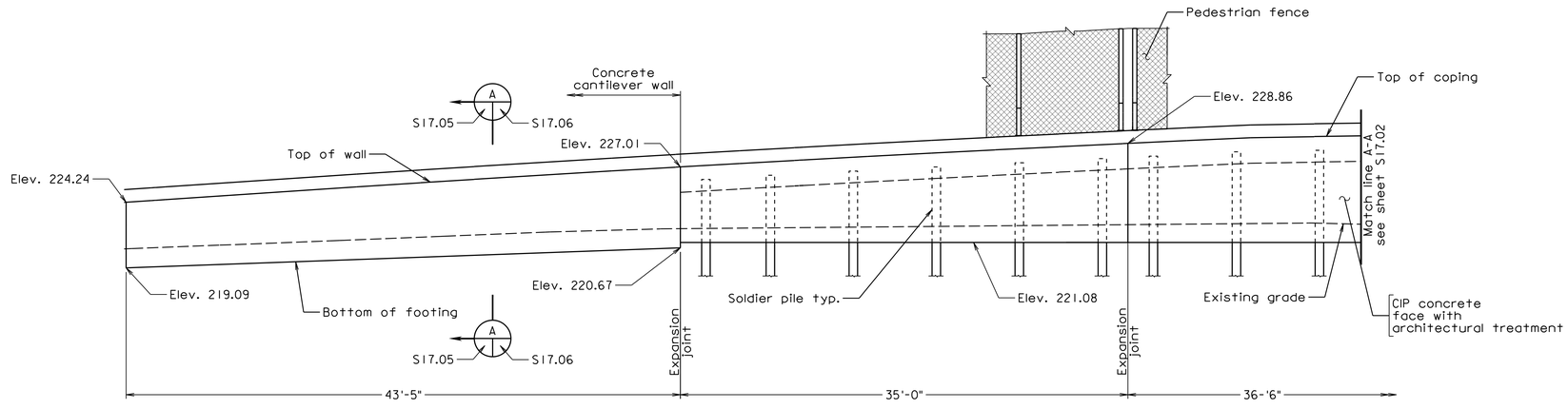
NORTHWEST WALL ELEVATION (SHEET 1 OF 2)

DESIGN BY: STT DRAWN BY: STT CHECKED BY: GJK	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
	GSJ	———	⅛" = 1'-0"	03/25/2025	S17.02	———

Notes:
For wall details see sheets S17.06 - S17.07



NORTHWEST WALL PLAN



NORTHWEST WALL ELEVATION

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: S. TECLEMARIAM

57064.096.S17.03.Northwest Wall Elevation (2 of 2).dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

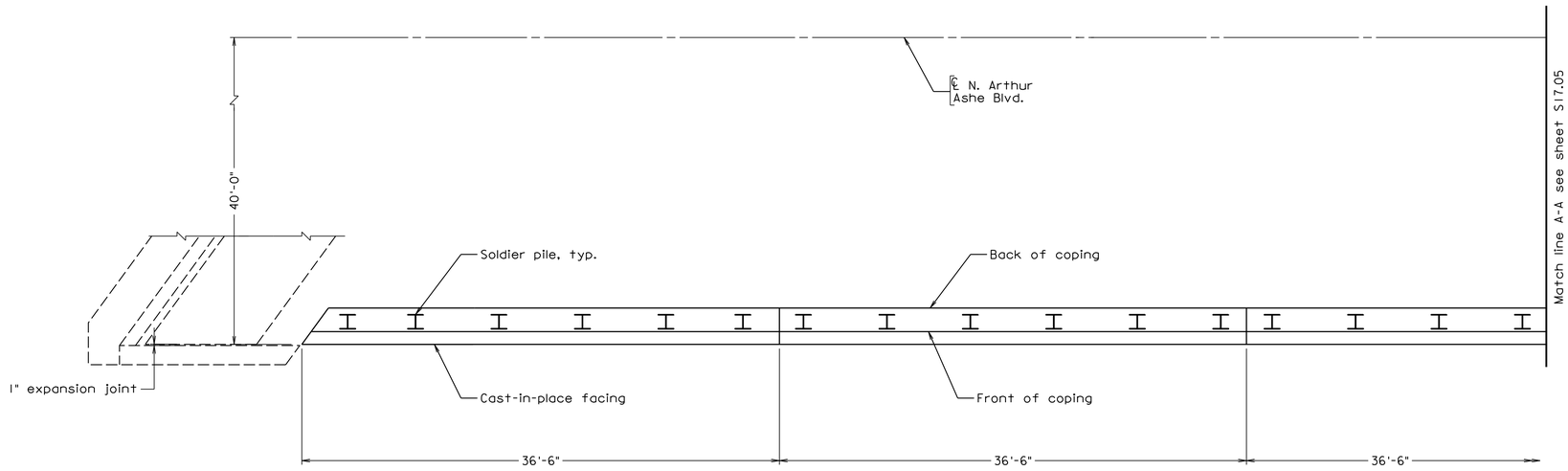
DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

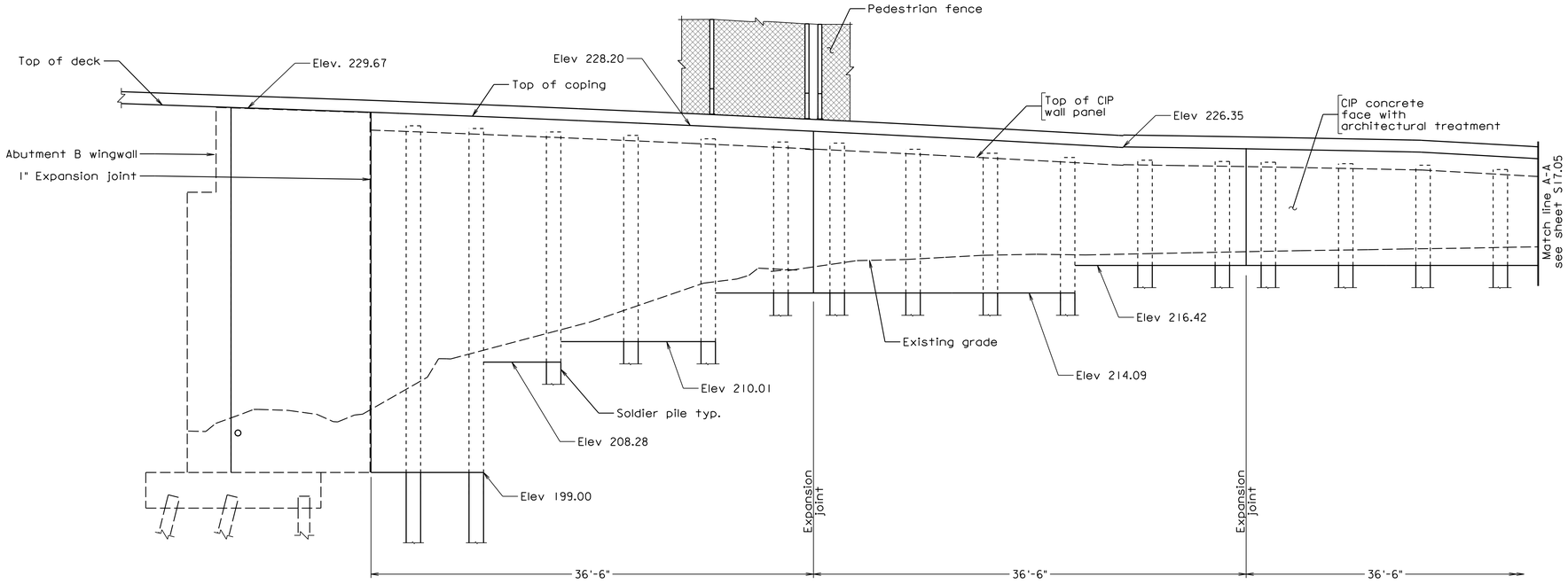
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (128-1853) BRIDGE REPLACEMENT
NORTHWEST WALL ELEVATION (SHEET 2 OF 2)

DESIGN BY: STT	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: STT	GSJ	———	⅛" = 1'-0"	03/25/2025	S17.03	———
CHECKED BY: GJK						

Notes:
For wall details see sheets S17.06 - S17.07



NORTHEAST WALL PLAN



NORTHEAST WALL ELEVATION

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: S. TECLEMARIAM

57064.096.S17.04_Northeast Wall Elevation (1 of 2).dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

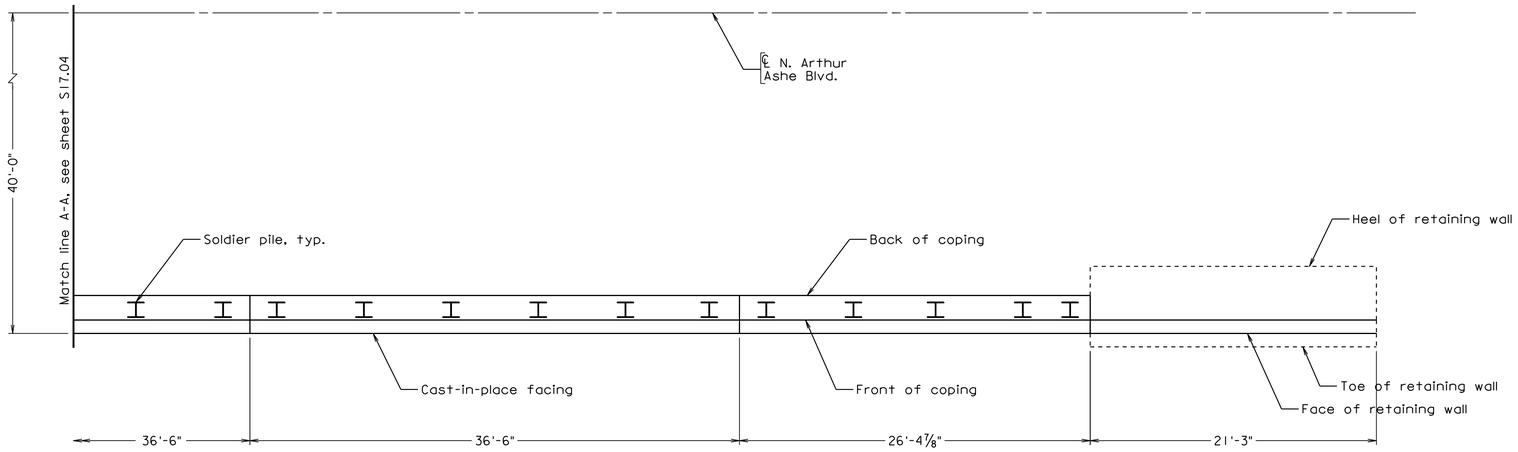
TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (128-1853) BRIDGE REPLACEMENT

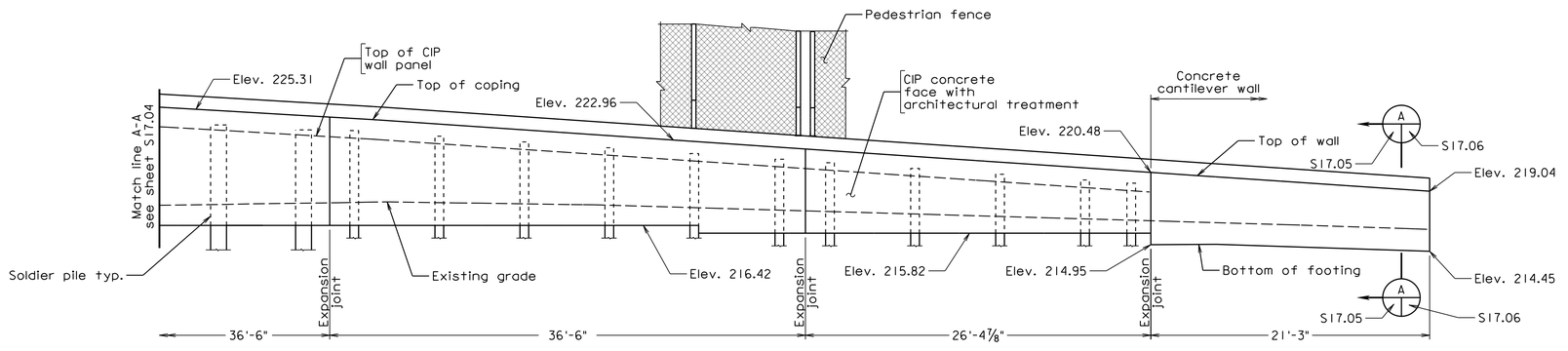
NORTHEAST WALL ELEVATION (SHEET 1 OF 2)

DESIGN BY: STT DRAWN BY: STT CHECKED BY: GJK	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
	GSJ	———	1/8" = 1'-0"	03/25/2025	S17.04	———

Notes:
For wall details see sheets S17.06 - S17.07



NORTHEAST WALL PLAN



NORTHEAST WALL ELEVATION

SURVEYED BY: TIMMONS GROUP
SUPERVISED BY: G. JOHNSON
DESIGNED BY: S. TECLEMARIAM

57064.096_S17.05_Northeast Wall Elevation (2 of 2).dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

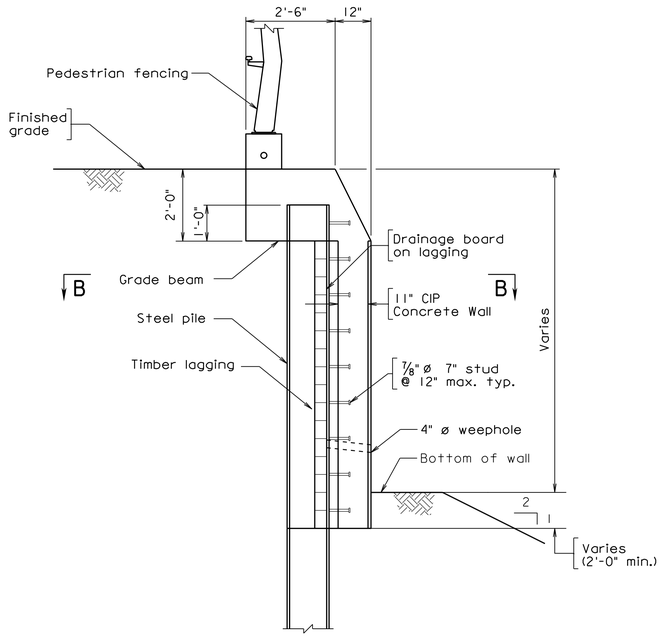
30% PLANS
NOT FOR CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

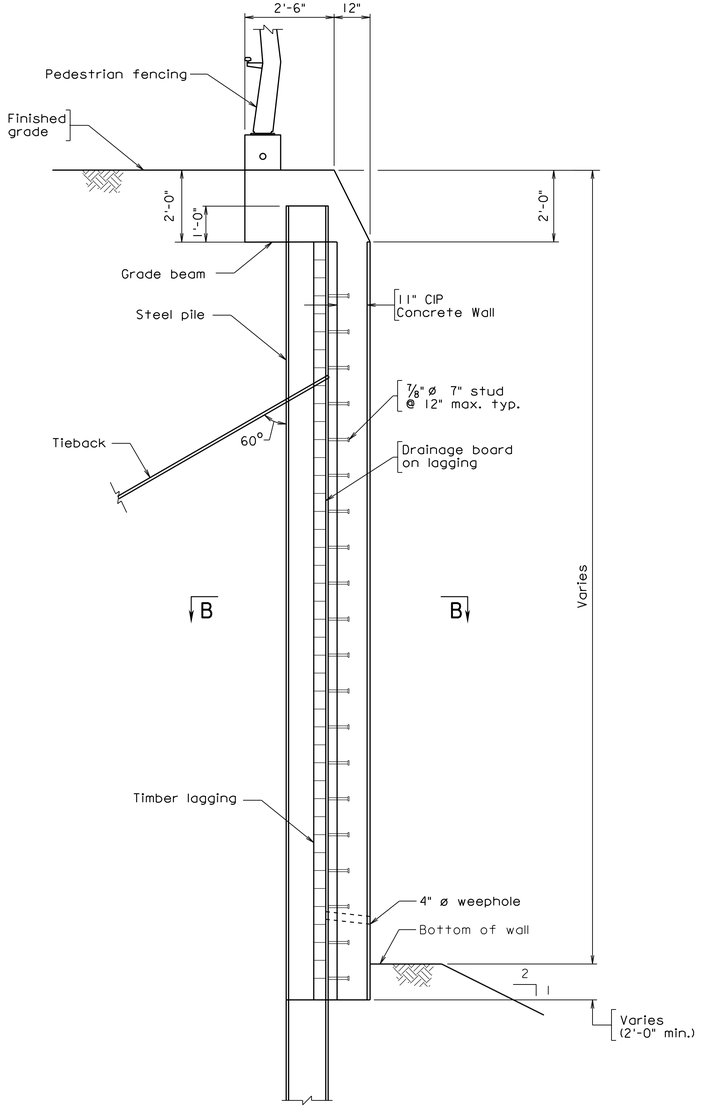
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (128-1853) BRIDGE REPLACEMENT
NORTHEAST WALL ELEVATION (SHEET 2 OF 2)

DESIGN BY: STT	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
DRAWN BY: STT	GSJ	———	⅛" = 1'-0"	03/25/2025	S17.05	———
CHECKED BY: GJK						



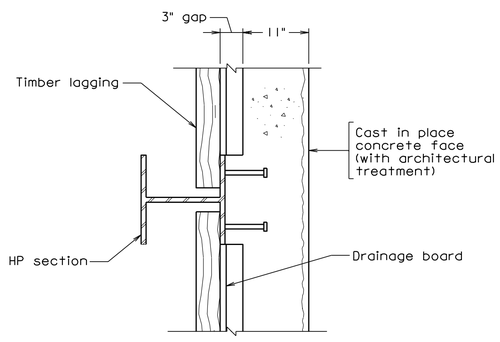
CANTILEVER WALL SECTION

Scale: 1/2" = 1'-0"



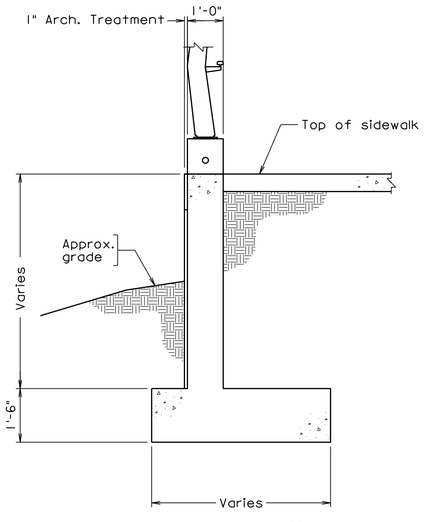
TIEBACK WALL SECTION

Scale: 1/2" = 1'-0"



SECTION B-B

Scale: 1" = 1'-0"



SECTION A

S17.00, S17.01, S17.03, S17.05 — S17.06

Scale: 1/2" = 1'-0"

SURVEYED BY: ..... TIMMONS GROUP
SUPERVISED BY: ..... G. JOHNSON
DESIGNED BY: ..... G. KOZINA

57064.096_S17.06_Retaining Wall Details 1 of 2.dgn

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES | REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

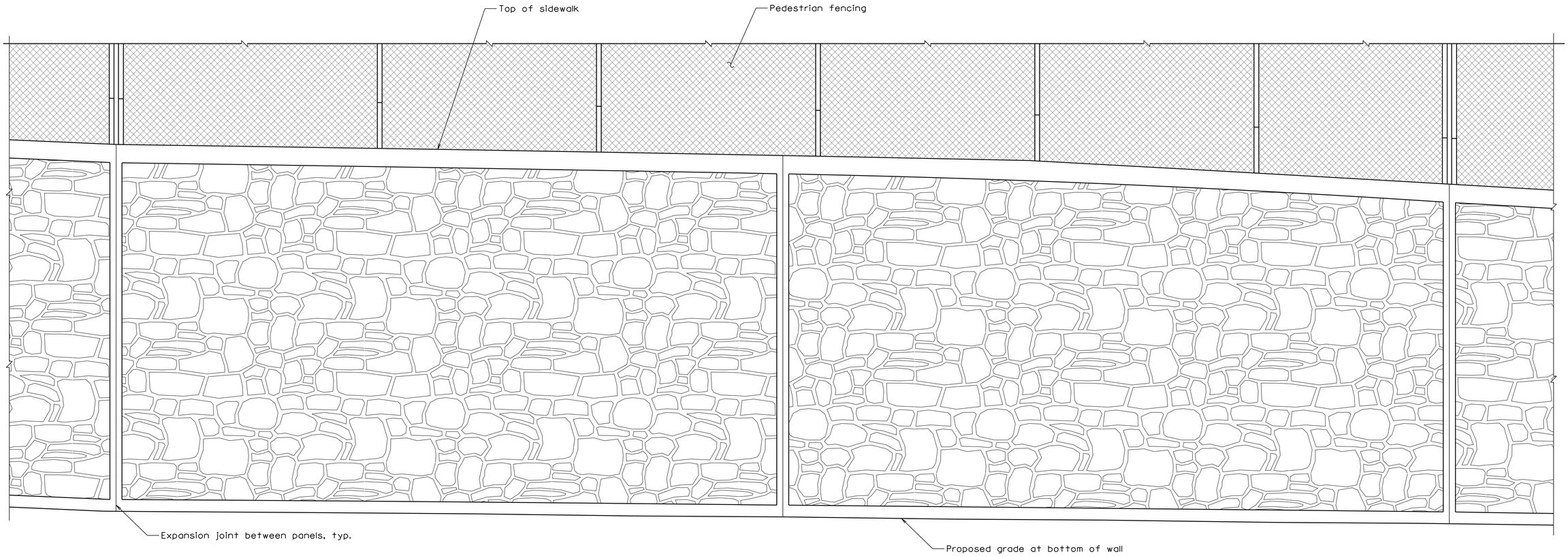
N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA RAILROADS (128-1853) BRIDGE REPLACEMENT

RETAINING WALL DETAILS (SHEET 1 OF 2)

DESIGN BY: GJK DRAWN BY: STT CHECKED BY: GSJ	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
	GSJ	———	As Noted	03/25/2025	S17.06	———

SURVEYED BY: ..... TIMMONS GROUP
SUPERWISED BY: ..... G. JOHNSON
DESIGNED BY: ..... G. KOZINA

57064.096.S17.07_Retaining Wall Details (2 of 2).dgn



WALL ARCHITECTURAL TREATMENT

NOTES
1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of December, 2018
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

REFERENCES	REVISIONS

30% PLANS
NOT FOR CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS
RICHMOND, VIRGINIA

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

N. ARTHUR ASHE BOULEVARD OVER CSXT AND VPRA
RAILROADS (128-1853) BRIDGE REPLACEMENT
RETAINING WALL DETAILS (SHEET 2 OF 2)

DESIGN BY: GJK DRAWN BY: STF CHECKED BY: GSJ	REVIEWED BY	FIELD NOTES	SCALE	DATE	SHEET	DRAWING NO.
	GSJ	———	¼" = 1'-0"	03/25/2025	S17.07	———