

STATE	FEDERAL AID		STATE	SHEET
ROUTE	PROJECT	ROUTE	PROJECT	NO.
VA.	STP-5104(296)	20	0020-104-101, D604	1
Federal Structure No. 00000000031463			FHWA Construction and Scour Code:	X528-SN
Federal Stewardship and Oversight Code:			FO	UPC No. 75878

DESIGN EXCEPTION(S):

GENERAL NOTES:

Clear width: Match existing
Clear height: Match existing
Length: 22'-8 1/2" extension, 102'-10 3/4" ± total
Capacity: HL-93 loading,
Specifications:
Construction: Virginia Department of Transportation Road and Bridge Specification, 2020.
Design: AASHTO LRFD Bridge Design Specifications 8th edition, 2017 and VDOT Modifications.

These plans are for illustrative purposes and geometric dimensions only. Final design of the precast tunnel, cast-in-place concrete slab, and cast-in-place concrete footings shall be completed by an engineer licensed in the Commonwealth of Virginia. See Special Provisions.

Concrete in tunnel, including slab and walls, shall be Class A4. Concrete for cast-in-place slab shall be colored Omaha Tan (city mix), per City of Charlottesville Standards and Design Manual.

All reinforcing steel shall be deformed and shall conform to ASTM A615, Grade 60.

For tunnel lighting locations and details, see Lighting Plans.

Headwalls not shown for clarity.

The anticipated total settlement of the embankment is a maximum of 3".

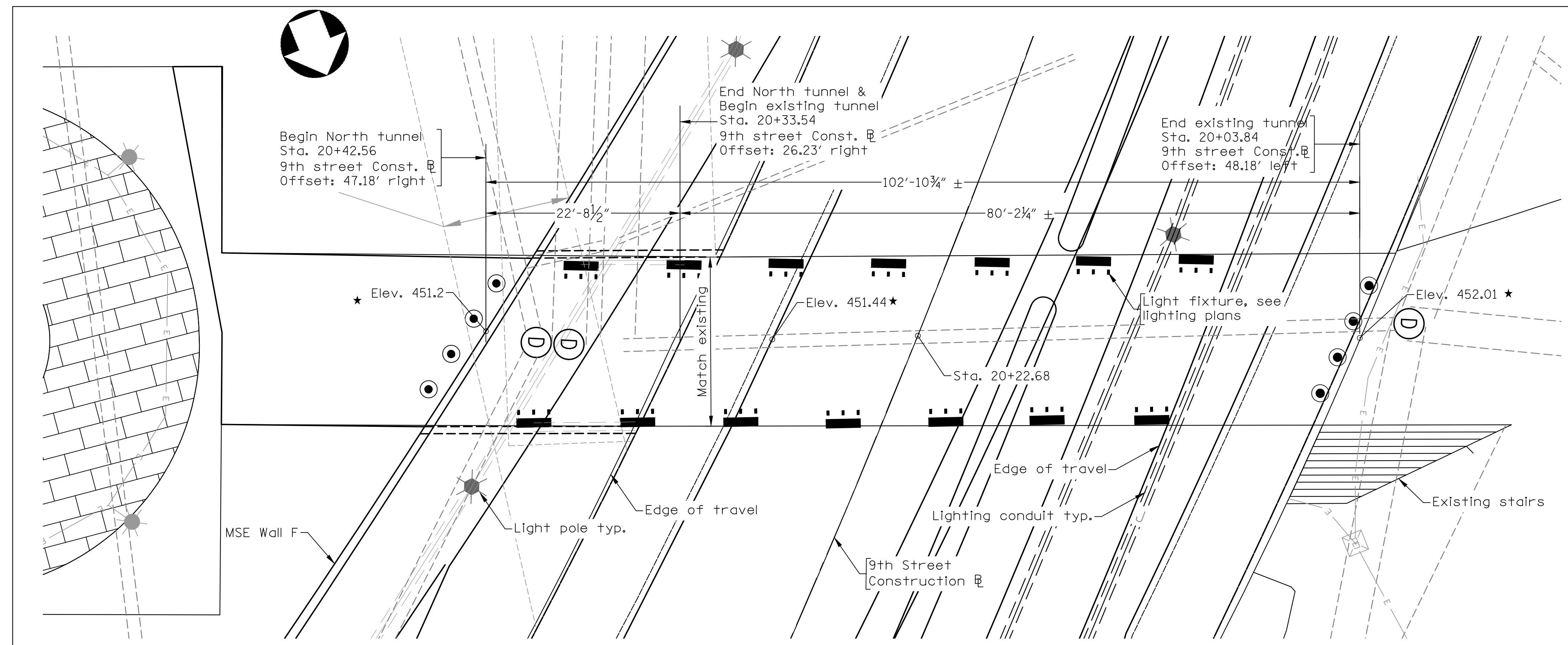
LUMP SUM BID ITEMS		
Precast Concrete Bridge System (Struc. D604)	LS	
ESTIMATED QUANTITIES		
Item Code	Structure Excavation	Select Matl. Ty. I Min. CBR-30
	64011	00270
	CY	TON
Total	100	700



**CITY OF CHARLOTTESVILLE
NEIGHBORHOOD DEVELOPMENT
SERVICES**

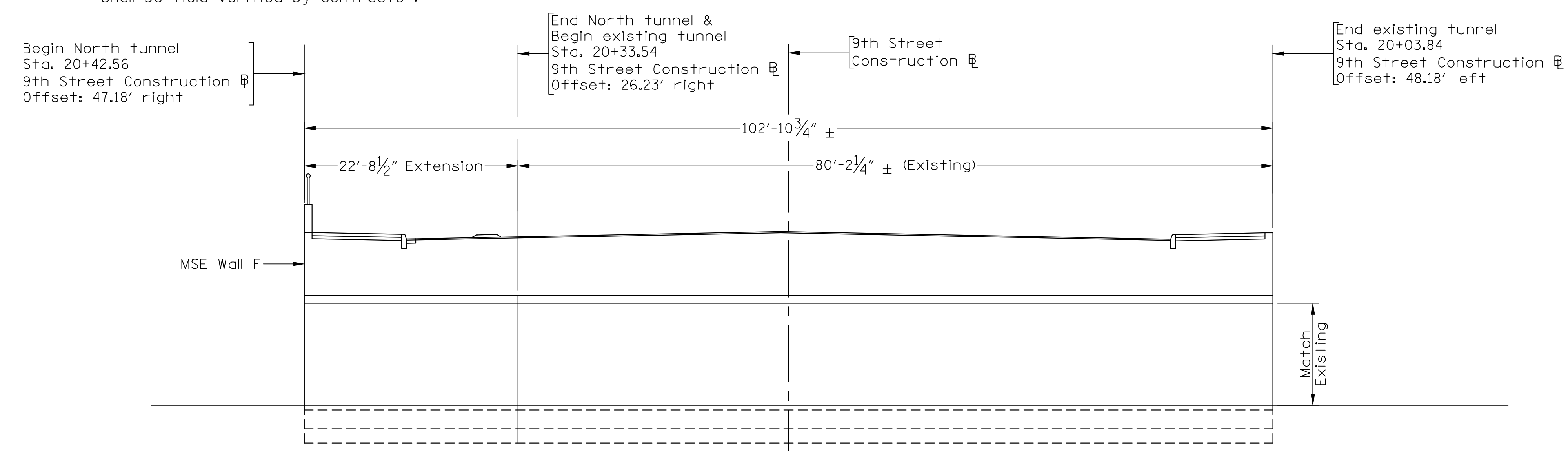
**NORTH TUNNEL EXTENSION
CITY OF CHARLOTTESVILLE
PROJ. 0020-104-101, D604**

Recommended for Approval: _____ JOHN BLAIR _____ 11/10/20
Acting City Manager Date

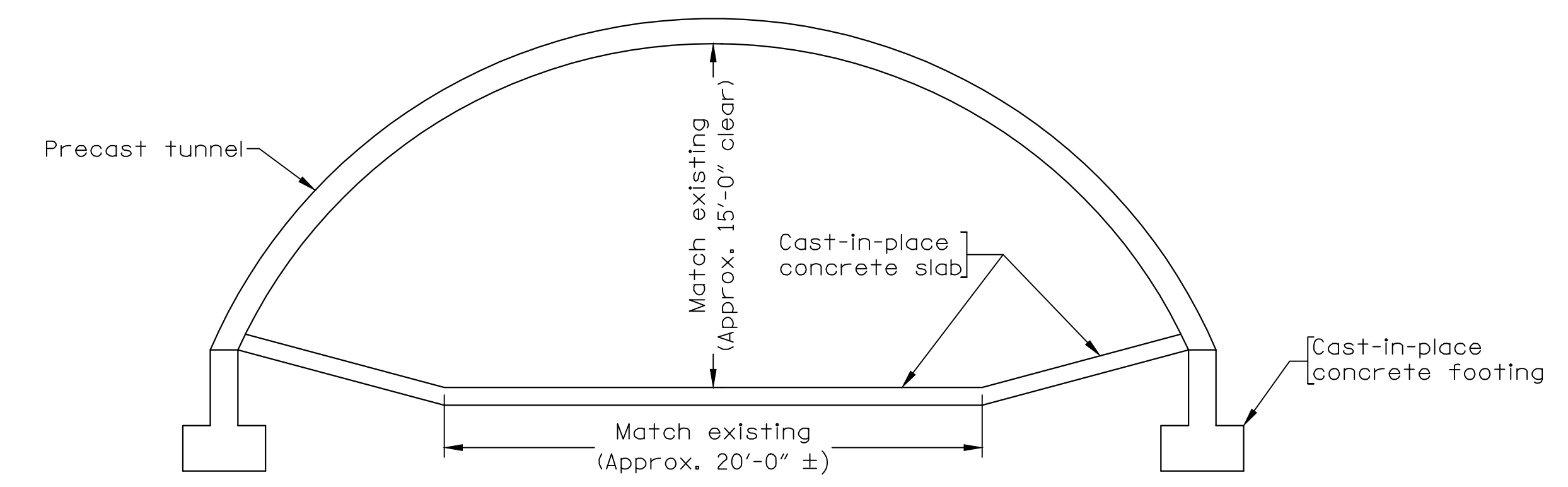


★Elevations shown are estimated based on best available information. Elevations shall be field verified by contractor.

PLAN



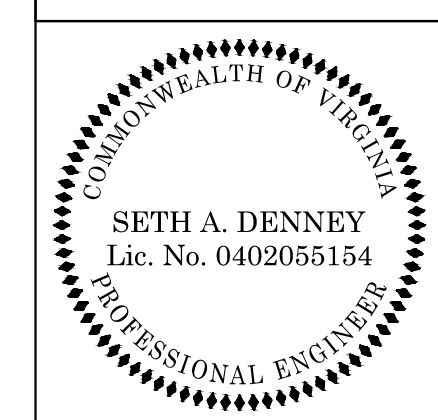
DEVELOPED SECTION ALONG CONSTRUCTION E



TYPICAL SECTION

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

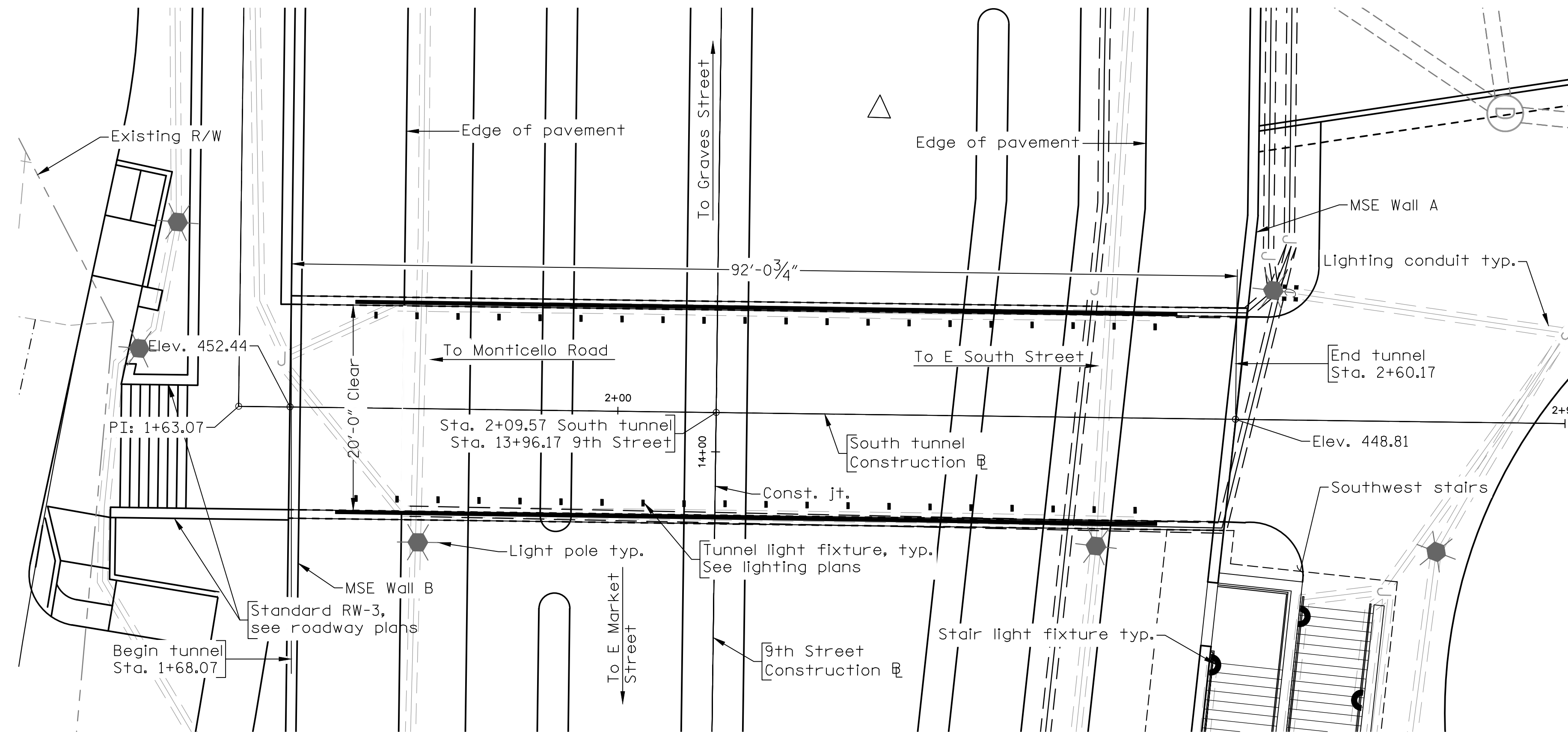
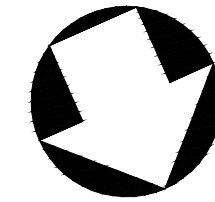
No.	Description	Date
REVISIONS		
For Table of Revisions, see Sheet 2.		



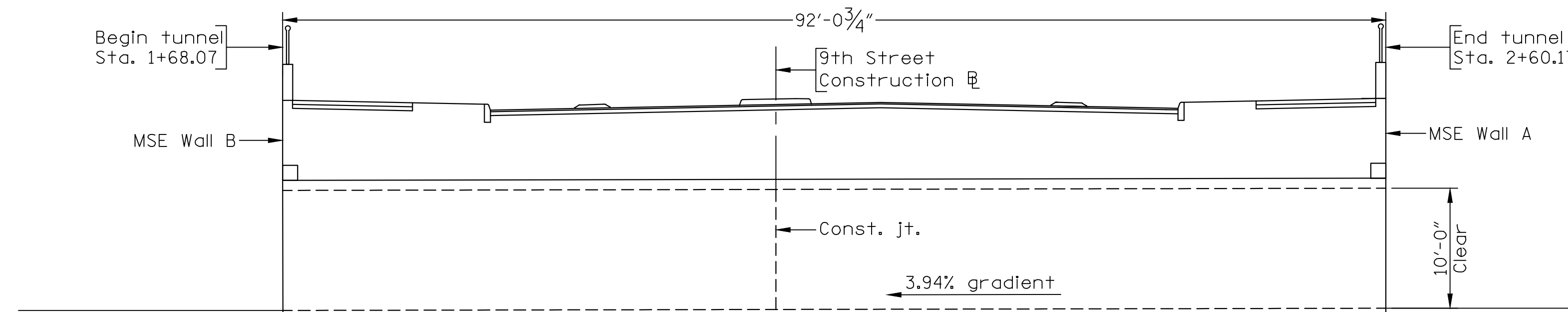
Seth A Denney
2020.11.13 16:39:21-05'00'

KIMLEY-HORN & ASSOC.
RALEIGH, NC
STRUCTURAL ENGINEER

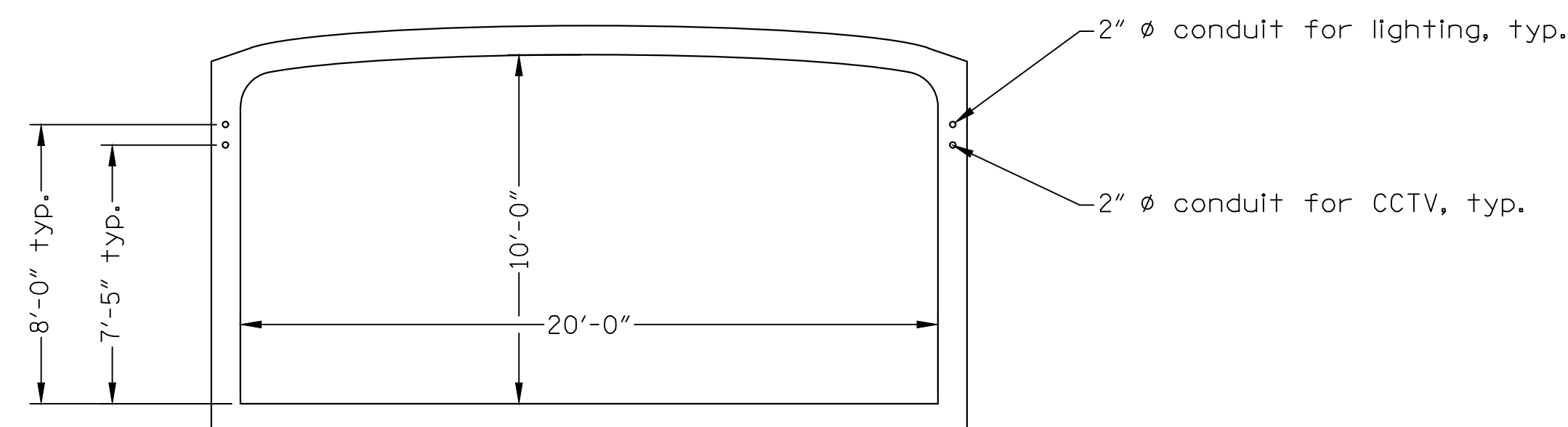
PLANS BY: Kimley-Horn
COORDINATED: J. Janiczek
SUPERVISED: Seth A. Denney
DESIGNED: Patrick D. Cooksey
DRAWN: James I. Kimble
CHECKED: Seth A. Denney



PLAN



DEVELOPED SECTION ALONG CONSTRUCTION E



TYPICAL SECTION

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

STATE	FEDERAL AID		STATE	SHEET
ROUTE	PROJECT	ROUTE	PROJECT	NO.
VA.	STP-5104(296)	20	0020-104-101, D603	1
Federal Structure No. 00000000031464			FHWA Construction and Scour Code:	X528-SN
Federal Stewardship and Oversight Code:			FO	UPC No. 75878

DESIGN EXCEPTION(S):

GENERAL NOTES:

Clear width: 20'-0"

Clear height: 10'-0"

Length: 92'-0 3/4"

Capacity: HL-93 loading.

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specification, 2020.

Design: AASHTO LRFD Bridge Design Specifications, 8th edition 2017 and VDOT Modifications.

These plans are for illustrative purposes and geometric dimensions only. Final design of the precast tunnel, and foundation shall be completed by an engineer licensed in the Commonwealth of Virginia. See Special Provisions.

Concrete in tunnel, including slab and walls, shall be Class A4. Concrete for cast-in-place slab shall be colored Omaha Tan (city mix), per City of Charlottesville Standards and Design Manual.

All reinforcing steel shall be deformed and shall conform to ASTM A615, Grade 60.

For tunnel lighting locations and details, see Lighting Plans.

Headwalls not shown for clarity.

Provide junction boxes or hand holes every four feet (4'-0") along the lighting conduit on both sides of the tunnel. Coordinate locations with Lighting plans.

Coordinate conduit stub out locations with Lighting and Interconnect plans.

The anticipated total settlement of the embankment is a maximum of 1 1/2".

LUMP SUM BID ITEMS		
Precast Concrete Bridge System (Struc. D603)	LS	
ESTIMATED QUANTITIES		
Item Code	Structure Excavation	Select Matl. Ty. I Min. CBR-30
	64011	00270
	CY	TON
Total	1,540	1,900



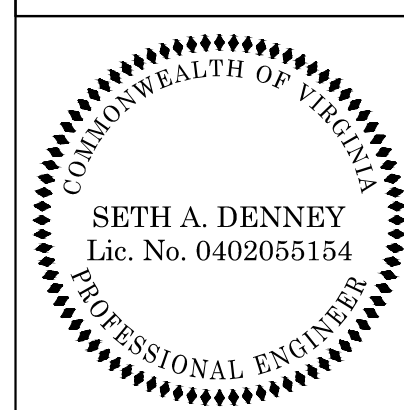
CITY OF CHARLOTTESVILLE
NEIGHBORHOOD DEVELOPMENT
SERVICES

SOUTH TUNNEL
CITY OF CHARLOTTESVILLE
PROJ. 0020-104-101, D603

Recommended for Approval: _____ JOHN BLAIR _____ 11/10/20
Acting City Manager Date

No.	Description	Date
REVISIONS		
For Table of Revisions, see Sheet 2.		

Date: _____ © 2018, Commonwealth of Virginia

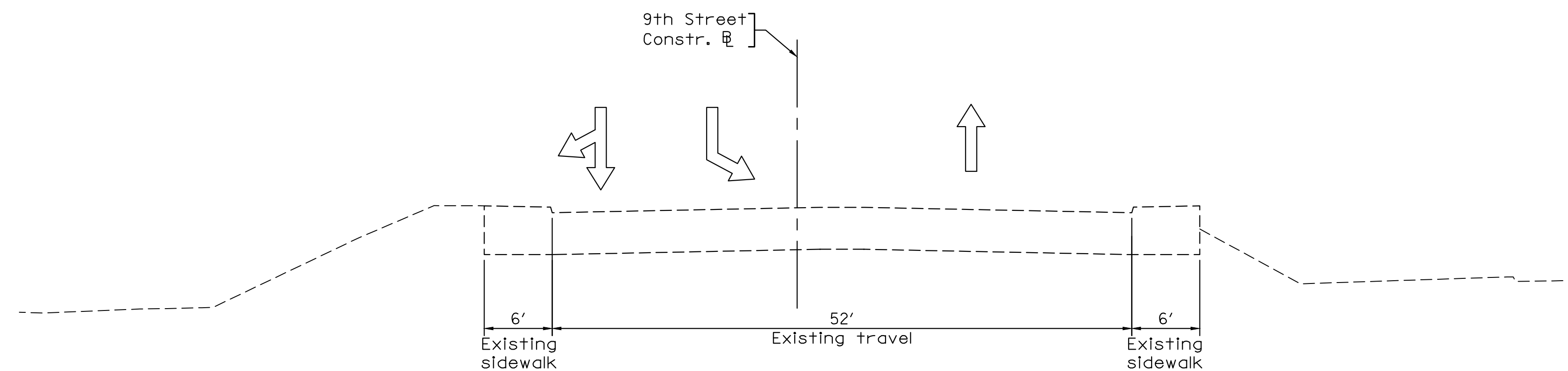


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2020.11.13 16:39:47-05'00"

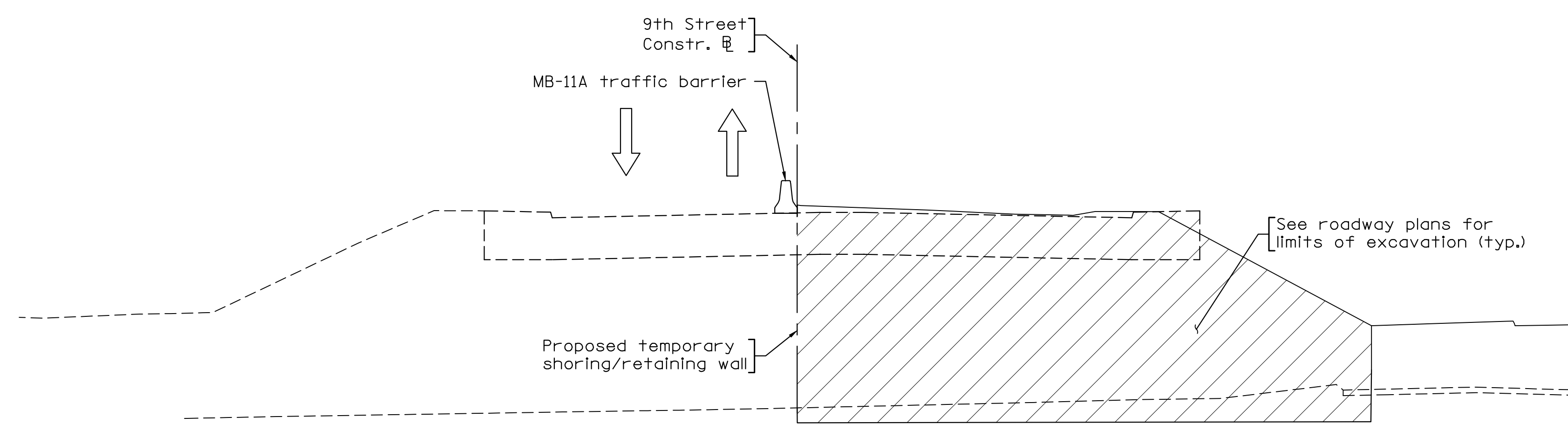
KIMLEY-HORN & ASSOC.
RALEIGH, NC
STRUCTURAL ENGINEER

PLANS BY:	Kimley-Horn
COORDINATED:	J. Janiczek
SUPERVISED:	Seth A. Denney
DESIGNED:	Patrick D. Cooksey
DRAWN:	James I. Kimble
CHECKED:	Seth A. Denney

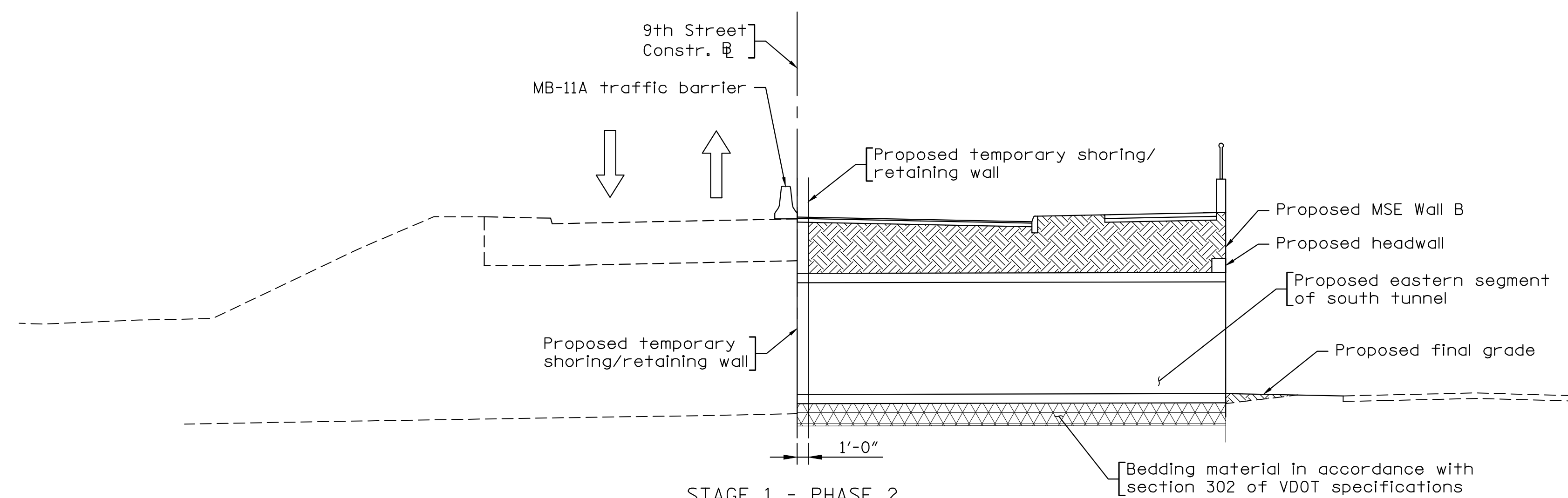
STATE	FEDERAL AID		STATE	SHEET
ROUTE	PROJECT		ROUTE	PROJECT
VA.	STP-5104(296)		20	0020-104-101
				2



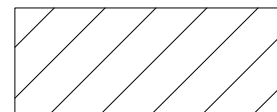
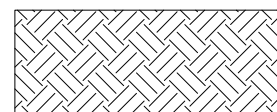
EXISTING TYPICAL SECTION



STAGE 1 - PHASE 1A



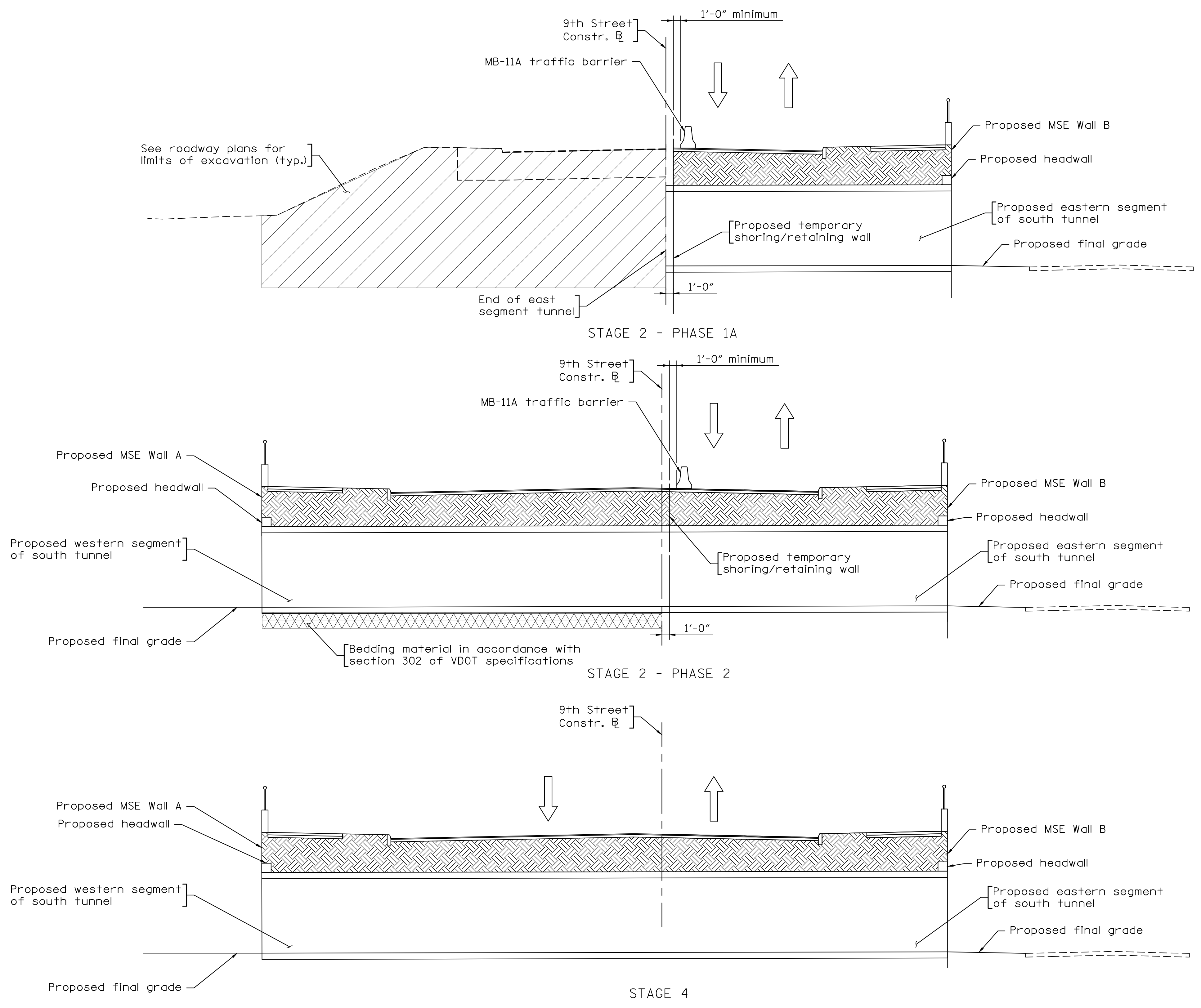
STAGE 1 - PHASE 2

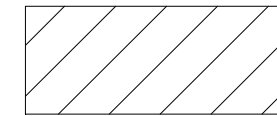
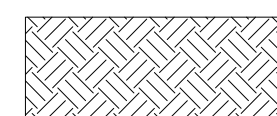
 Denotes excavation
 Denotes backfilled earth

COMMONWEALTH OF VIRGINIA
 SETH A. DENNEY
 Lic. No. 0402055154
 PROFESSIONAL ENGINEER
 Seth A Denney
 2020.10.27 10:23:16-04'00"
 KIMLEY-HORN & ASSOC.
 RALEIGH, NC
 STRUCTURAL ENGINEER

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION						
STRUCTURE AND BRIDGE DIVISION						
SOUTH TUNNEL SEQUENCE OF CONSTRUCTION						
No.	Description	Date	Designed: PDC.....	Date	Plan No.	Sheet No.
			Drawn: JJK.....	October 2020	306-24	2 of 3
			Checked: SAR.....			
Revisions						

STATE	FEDERAL AID		STATE	SHEET
ROUTE	PROJECT		ROUTE	PROJECT
VA.	STP-5104(296)		20	0020-104-101
				3



 Denotes excavation
 Denotes backfilled earth

COMMONWEALTH OF VIRGINIA
 SETH A. DENNEY
 Lic. No. 0402055154
 PROFESSIONAL ENGINEER

Seth A Denney
 2020.10.27 10:24:17-04'00"

KIMLEY-HORN & ASSOC.
 RALEIGH, NC
 STRUCTURAL ENGINEER

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COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION						
STRUCTURE AND BRIDGE DIVISION						
SOUTH TUNNEL SEQUENCE OF CONSTRUCTION						
No.	Description	Date	Designed: PDC.....	Date	Plan No.	Sheet No.
	Revisions		Drawn: JJK.....	October 2020	306-24	3 of 3
			Checked: SAR.....			