THIS PROJECT WAS DEVELOPED UTILIZING THE ENGINEERING DESIGN PACKAGE (AutoCAD CIVIL 3D).
Computer Identification No. (UPC 111796)

NHPP-5104(275)

STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
VA.	*SEE TABULATION BELOW FOR SECTION NUMBERS*	US29 3435	*0029-104-336 P101, R201, C501 (SEE TABULATION BELOW FOR SECTION NUMBERS)*	*1*

COMMONWEALTH OF VIRGINIA

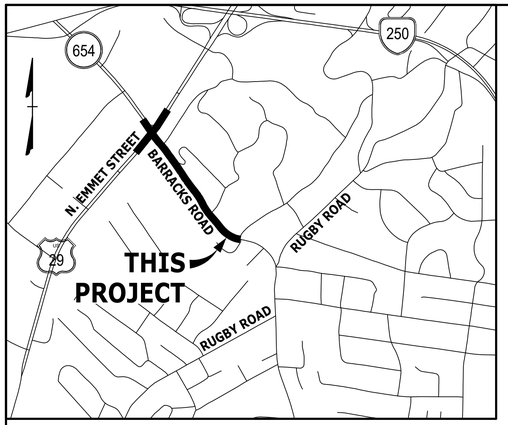
PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

CITY OF CHARLOTTESVILLE, VIRGINIA

BARRACKS-EMMET INTERSECTION IMPROVEMENTS

Fr: 0.06 MILES SOUTH OF INTERSECTION OF BARRACKS ROAD
To: 0.08 MILES NORTH OF INTERSECTION OF BARRACKS ROAD
(38°03'10"N, 78°29'57"W)

PH 60% PLANS



LOCATION MAP
SCALE: 1" = 1,000'

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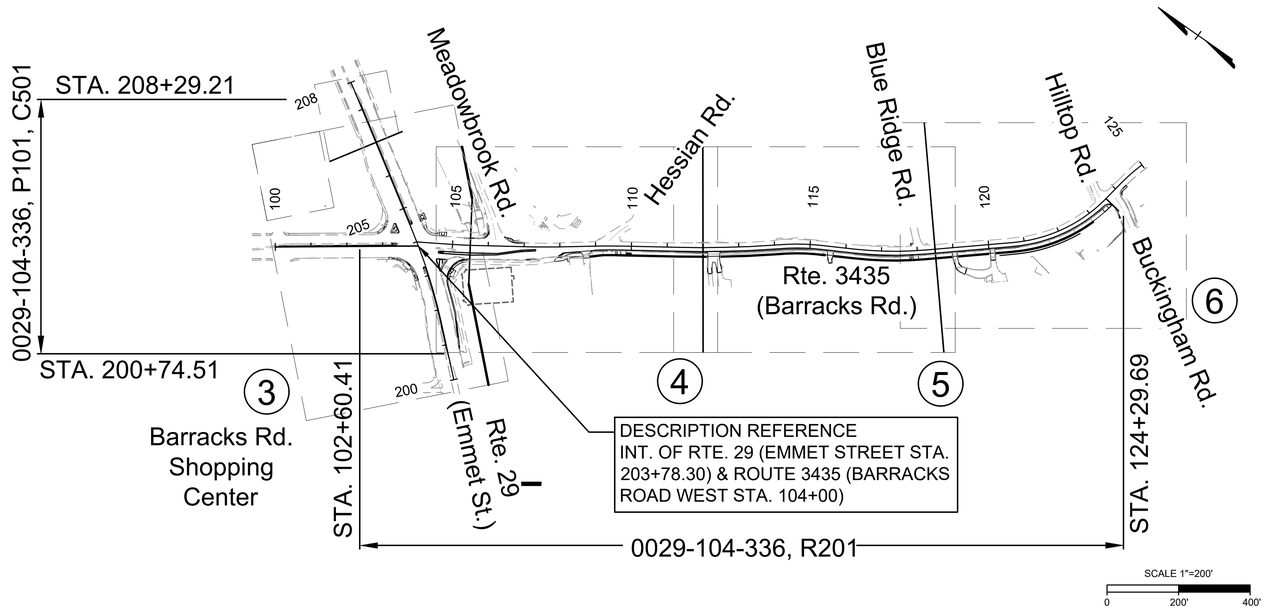
TOTAL NUMBER OF SHEETS	**91**

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
BARRACKS RD. - GS-6 URBAN MINOR ARTERIAL - 25 MPH MINIMUM DESIGN SPEED	
	Fr: ROUTE 29 (N. EMMET STREET) To: 0.50 MILES SOUTH OF INTERSECTION OF ROUTE 29 (N. EMMET STREET)
ADT (2019)	17,000
ADT (2039)	20,750
DHV	1,722
D (%) (design hour)	52.6%
T (%) (design hour)	2%
V (MPH)	25 mph

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
U.S. ROUTE 29 - GS-5 URBAN PRINCIPAL ARTERIAL - 40 MPH MINIMUM DESIGN SPEED	
	Fr: 0.06 MILES SOUTH OF INTERSECTION OF ROUTE 3435 (BARRACKS ROAD) To: 0.08 MILES NORTH OF INTERSECTION OF ROUTE 3435 (BARRACKS ROAD)
ADT (2018)	32,000
ADT (2038)	39,050
DHV	3,476
D (%) (design hour)	51.1%
T (%) (design hour)	1%
V (MPH)	40 mph

REVISIONS	
DATE	REVISION DESCRIPTION
03/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
07/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
02/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.



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

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF CHARLOTTESVILLE STANDARDS (LATEST EDITION), 2020 VDOT ROAD AND BRIDGE SPECIFICATIONS, 2016 VDOT ROAD AND BRIDGE STANDARDS (INCLUDING UPDATES), 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL, REVISION 2, AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY. IN THE CASE OF REDUNDANT STANDARDS, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.

ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH PLAN CROSS SECTIONS.

THE ORIGINAL APPROVED TITLE SHEET(S), INCLUDING ORIGINAL SIGNATURES, ARE FILED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY. ANY MISUSE OF ELECTRONIC FILES, INCLUDING SCANNED SIGNATURES, IS ILLEGAL AND ENFORCED TO THE FULL EXTENT OF THE LAW.

Charlottesville Population 43,475 (2010 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		BRIDGE PROJECT NO.	TYPE PROJECT	DESCRIPTION
					FEET	FEET	MILES	FEET	MILES			
0029-104-336	P101	NHPP-5104(275)	PENG	111796	NONE	754.70	0.143	754.70	0.143		PRELIMINARY	Fr: 0.06 MILES SOUTH OF INTERSECTION OF ROUTE 3435 (BARRACKS ROAD)
												To: 0.08 MILES NORTH OF INTERSECTION OF ROUTE 3435 (BARRACKS ROAD)
	R201		ROW	111796	NONE	407.97	0.077	407.97	0.143		RIGHT OF WAY	Fr: 0.01 MILES SOUTH OF INTERSECTION OF ROUTE 3435 (BARRACKS ROAD)
												To: 0.06 MILES NORTH OF INTERSECTION OF ROUTE 3435 (BARRACKS ROAD)
	C501		CONSTR	111796	NONE	754.70	0.143	754.70	0.143		CONSTR.	Fr: 0.06 MILES SOUTH OF INTERSECTION OF ROUTE 3435 (BARRACKS ROAD)
												To: 0.08 MILES NORTH OF INTERSECTION OF ROUTE 3435 (BARRACKS ROAD)

Note: Project Lengths are based on Construction Baseline.

TIER 1 PROJECT

LOCALLY ADMINISTERED PROJECTS	
CITY OF CHARLOTTESVILLE	
NAME OF LOCALITY	
(SIGNATURE)	
RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
DATE	CITY MANAGER
(SIGNATURE)	
NAME OF RESPONSIBLE LOCAL GOVERNMENT OFFICIAL (TYPED)	
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE	CITY MANAGER

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PROJECT MANAGER: KYLE KLING (CITY)
SURVEYED BY, DATE: TIMMONS GROUP, 07/18/19
DESIGN BY: TIMMONS GROUP
SUBSURFACE UTILITY BY, DATE: INFRAMAP, 07/18/19

TIMMONS GROUP

Project #: NHPP-5104(275)
UPC: 111796

RIGHT-OF-WAY DATA SHEET

PARCEL NO.	LANDOWNER	TAX PARCEL ID	SHEET NO.	AREA								
				TOTAL	FEE TAKING	PRESCRIPTIVE EASEMENTS	FEE REMAINDER	EASEMENTS				PROFFERS
								PERMANENT			TEMPORARY	
								TRAFFIC CONTROL	ACCESS	DOMINION UTILITY	CONSTR.	
				ACRES	SQ. FT.	ACRES	ACRES	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	YES/NO
001	*FEDERAL REALTY INVESTMENT TRUST*	*10001000*	*3*	*39.830*	*2583*	*-*	*39.771*	*1083*	*-*	*-*	*697*	*NO*
002	*BARRACKS ROW, LLC*	*400002100*	*3*	*0.848*	*0*	*-*	*0.848*	*-*	*1328*	*-*	*214*	*NO*
003	*MEADOWBROOK SHOPPING CENTER, LLC*	*10004000*	*4*	*2.505*	*0*	*-*	*2.505*	*-*	*206*	*-*	*2079*	*NO*
004	*BOOKER, ELIZABETH ET AL*	*10005000*	*4*	*0.830*	*3160*	*-*	*0.757*	*-*	*-*	*-*	*865*	*NO*
005	*HEAPY, TIMOTHY & LORI*	*10006000*	*4, 5*	*1.890*	*5973*	*-*	*1.753*	*-*	*-*	*-*	*3111*	*NO*
006	*MENKE, GREGORY & CHRISTINA*	*10007000*	*5*	*2.069*	*5482*	*-*	*1.943*	*-*	*-*	*-*	*3533*	*NO*
007	*GALLAGHER, THOMAS*	*10008000, 10009000, 20001000, 20002000*	*5, 6*	*5.117*	*13386*	*-*	*4.810*	*-*	*-*	*128*	*4341*	*NO*
008	*MASON, JOHN & JANE*	*20003000*	*6*	*2.372*	*4662*	*-*	*2.265*	*-*	*-*	*-*	*4318*	*NO*
009	*MIRKO VENTURES, LLC*	*20004000*	*6*	*0.555*	*3583*	*-*	*0.473*	*-*	*-*	*154*	*1597*	*NO*
010	*KETT, ELEANOR*	*20005000*	*6*	*0.908*	*3447*	*-*	*0.829*	*-*	*-*	*154*	*1697*	*NO*
011	*GERBER, MATTHEW J.*	*20007000*	*6*	*0.509*	*375*	*-*	*0.500*	*-*	*-*	*-*	*77*	*NO*

60% PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

THIS DRAWING PREPARED AT THE
CORPORATE OFFICE
1001 Boulders Parkway, Suite 300 | Richmond, VA 23225
TEL 804.200.6500 FAX 804.560.1016 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

Site Development | Residential | Infrastructure | Technology

DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE: *06/18/2021*
DRAWN BY: *KJH*
DESIGNED BY: *KJH*
CHECKED BY: *BTC*
SCALE: *N/A*

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
RIGHT-OF-WAY DATA SHEET

JOB NO. *43569*
SHEET NO. *1A*

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L:\2024\43569-Barracks_Emmet_Imp\DWG\Sheet\CD\43569-203C-01A.dwg | Plotted on 6/18/2021 11:34 AM | by Kyle Hogan

ALIGNMENT DATA SHEET

BARRACKS ROAD - EAST

Alignment Name: Barracks Road - East
Station Range: Start: 104+00.00, End: 124+07.79
Description:
****

Begin Barracks Road - East
N 3,906,903.1903 E 11,483,202.1482 104+00.00

Line (1)
S31° 05' 03.69"E 105.027'
N 3,906,813.2441 E 11,483,256.3738 105+05.03
Line (1)

Curve (2)
BC N 3,906,813.2441 E 11,483,256.3738 105+05.03
CTR N 3,907,561.8775 E 11,484,498.1661
PI N 3,906,774.3956 E 11,483,279.7942

Direction Back S31° 05' 03.53"E
Radius 1,450.000'
Delta 3°35'01"(LT)
Length 90.695'
Tangent 45.362'
Chord Direction S32° 52' 34.26"E Distance 90.680'
Direction Ahead S34° 40' 04.99"E

EC N 3,906,737.0870 E 11,483,305.5971 105+95.72
Curve (2)

Reversing Curve

Curve (3)
BC N 3,906,737.0870 E 11,483,305.5971 105+95.72
CTR N 3,905,605.1331 E 11,481,668.8991
PI N 3,906,709.7970 E 11,483,324.4711

Direction Back S34° 40' 04.99"E
Radius 1,990.000'
Delta 1°54'38"(RT)
Length 66.356'
Tangent 33.181'
Chord Direction S33° 42' 46.09"E Distance 66.353'
Direction Ahead S32° 45' 27.19"E

EC N 3,906,681.8929 E 11,483,342.4248 106+62.08
Curve (3)

Reversing Curve

Curve (4)
BC N 3,906,681.8929 E 11,483,342.4248 106+62.08
CTR N 3,908,056.2496 E 11,485,478.4828
PI N 3,906,599.5551 E 11,483,395.4016

Direction Back S32° 45' 27.19"E
Radius 2,540.000'
Delta 4°24'54"(LT)
Length 195.720'
Tangent 97.908'
Chord Direction S34° 57' 54.06"E Distance 195.672'
Direction Ahead S37° 10' 20.94"E

EC N 3,906,521.5397 E 11,483,454.5595 108+57.80
Curve (4)

Reversing Curve

Curve (5)
BC N 3,906,521.5397 E 11,483,454.5595 108+57.80
CTR N 3,905,313.1067 E 11,481,860.9191
PI N 3,906,473.8230 E 11,483,490.7423

Direction Back S37° 10' 20.94"E
Radius 2,000.000'
Delta 3°25'48"(RT)
Length 119.732'
Tangent 59.884'
Chord Direction S35° 27' 26.82"E Distance 119.714'
Direction Ahead S33° 44' 32.70"E

EC N 3,906,424.0270 E 11,483,524.0054 109+77.53
Curve (5)

Line (6)
S33° 44' 32.70"E 150.542'
N 3,906,298.8446 E 11,483,607.6257 111+28.07
Line (6)

Curve (7)
BC N 3,906,298.8446 E 11,483,607.6257 111+28.07
CTR N 3,907,971.8906 E 11,486,112.2336
PI N 3,906,186.5783 E 11,483,682.6181

Direction Back S33° 44' 32.70"E
Radius 3,012.000'
Delta 5°07'59"(LT)
Length 269.838'
Tangent 135.010'
Chord Direction S36° 18' 32.10"E Distance 269.748'
Direction Ahead S38° 52' 31.51"E

EC N 3,906,081.4717 E 11,483,767.3540 113+97.91
Curve (7)

Line (8)
S38° 52' 31.51"E 25.909'
N 3,906,061.3013 E 11,483,783.6152 114+23.82
Line (8)

Curve (9)
BC N 3,906,061.3013 E 11,483,783.6152 114+23.82
CTR N 3,905,692.2554 E 11,483,325.8499
PI N 3,906,021.0586 E 11,483,816.0584

Direction Back S38° 52' 31.51"E
Radius 588.000'
Delta 10°02'53"(RT)
Length 103.118'
Tangent 51.692'
Chord Direction S33° 51' 05.04"E Distance 102.986'
Direction Ahead S28° 49' 38.58"E

EC N 3,905,975.7728 E 11,483,840.9827 115+26.94
Curve (9)

BARRACKS ROAD - EAST (CONT.)

Line (10)
S28° 49' 38.58"E 99.739'
N 3,905,888.3937 E 11,483,889.0742 116+26.68
Line (10)

Curve (11)
BC N 3,905,888.3937 E 11,483,889.0742 116+26.68
CTR N 3,906,376.3523 E 11,484,775.6634
PI N 3,905,802.3070 E 11,483,936.4543

Direction Back S28° 49' 38.58"E
Radius 1,012.000'
Delta 11°05'31"(LT)
Length 195.914'
Tangent 98.264'
Chord Direction S34° 22' 24.06"E Distance 195.608'
Direction Ahead S39° 55' 09.53"E

EC N 3,905,726.9435 E 11,483,999.5111 118+22.59
Curve (11)

Line (12)
S39° 55' 09.53"E 246.136'
N 3,905,538.1699 E 11,484,157.4586 120+68.73
Line (12)

Curve (13)
BC N 3,905,538.1699 E 11,484,157.4586 120+68.73
CTR N 3,905,802.5536 E 11,484,473.4415
PI N 3,905,421.1820 E 11,484,255.3427

Direction Back S39° 55' 09.53"E
Radius 412.000'
Delta 40°37'57"(LT)
Length 292.179'
Tangent 152.537'
Chord Direction S60° 14' 08.22"E Distance 286.095'
Direction Ahead S80° 33' 06.92"E

EC N 3,905,396.1425 E 11,484,405.8102 123+60.91
Curve (13)

Line (14)
S80° 33' 06.92"E 46.883'
N 3,905,388.4466 E 11,484,452.0567 124+07.79
Line (14)

N 3,905,388.4466 E 11,484,452.0567 124+07.79
End Barracks Road - East

****
Alignment Length: 2,007.788'
****

BARRACKS ROAD - WEST

Alignment Name: Barracks Road - West
Station Range: Start: 100+00.00, End: 104+00.00
Description:
****

Begin Barracks Road - West
N 3,907,219.1880 E 11,482,963.5528 100+00.00

Line (1)
S35° 26' 54.38"E 399.998'
N 3,906,893.3345 E 11,483,195.5398 104+00.00
Line (1)

N 3,906,893.3345 E 11,483,195.5398 104+00.00
End Barracks Road - West

****
Alignment Length: 399.998'
****

EMMET STREET

Alignment Name: Emmet Street
Station Range: Start: 200+00.00, End: 208+81.70
Description:
****

Begin Emmet Street
N 3,906,597.5504 E 11,482,946.2277 200+00.00

Line (1)
N42° 34' 00.00"E 164.840'
N 3,906,718.9533 E 11,483,057.7332 201+64.84
Line (1)

Curve (2)
BC N 3,906,718.9533 E 11,483,057.7332 201+64.84
CTR N 3,907,733.6247 E 11,481,952.9971
PI N 3,906,815.9724 E 11,483,146.8427

Direction Back N42° 34' 00.00"E
Radius 1,500.000'
Delta 10°02'16"(LT)
Length 262.789'
Tangent 131.732'
Chord Direction N37° 32' 51.97"E Distance 262.453'
Direction Ahead N32° 31' 43.93"E

EC N 3,906,927.0380 E 11,483,217.6780 204+27.63
Curve (2)

Line (3)
N32° 31' 43.93"E 454.073'
N 3,907,309.8765 E 11,483,461.8443 208+81.70
Line (3)

N 3,907,309.8765 E 11,483,461.8443 208+81.70
End Emmet Street

****
Alignment Length: 881.702'
****

HESSIAN ROAD

Alignment Name: Hessian Road
Station Range: Start: 10+00.00, End: 10+80.00
Description:
****

Begin Hessian Road
N 3,906,458.3309 E 11,483,500.5720 10+00.00

Line (1)
N85° 38' 36.63"E 30.495'
N 3,906,460.6473 E 11,483,530.9788 10+30.49
Line (1)

Curve (2)
BC N 3,906,460.6473 E 11,483,530.9788 10+30.49
CTR N 3,906,410.7918 E 11,483,534.7769
PI N 3,906,461.6081 E 11,483,543.5899

Direction Back N85° 38' 36.63"E
Radius 50.000'
Delta 28°23'27"(RT)
Length 24.776'
Tangent 12.648'
Chord Direction S80° 09' 39.96"E Distance 24.523'
Direction Ahead S65° 57' 56.55"E

EC N 3,906,456.4569 E 11,483,555.1411 10+55.27
Curve (2)

Line (3)
S65° 57' 56.55"E 24.729'
N 3,906,446.3850 E 11,483,577.7265 10+80.00
Line (3)

N 3,906,446.3850 E 11,483,577.7265 10+80.00
End Hessian Road

****
Alignment Length: 80.000'
****

ENTRANCE 1

Alignment Name: Entrance 1
Station Range: Start: 10+00.00, End: 10+75.00
Description:
****

Begin Entrance 1
N 3,906,511.0436 E 11,483,462.4643 10+00.00

Line (1)
S49° 18' 32.95"W 75.000'
N 3,906,462.1453 E 11,483,405.5964 10+75.00
Line (1)

N 3,906,462.1453 E 11,483,405.5964 10+75.00
End Entrance 1

****
Alignment Length: 75.000'
****

ENTRANCE 2

Alignment Name: Entrance 2
Station Range: Start: 10+00.00, End: 11+00.00
Description:
****

Begin Entrance 2
N 3,906,223.8528 E 11,483,659.3766 10+00.00

Line (1)
S54° 38' 00.83"W 60.792'
N 3,906,188.6663 E 11,483,609.8029 10+60.79
Line (1)

Curve (2)
BC N 3,906,188.6663 E 11,483,609.8029 10+60.79
CTR N 3,906,147.8930 E 11,483,638.7431
PI N 3,906,187.3805 E 11,483,607.9913

Direction Back S54° 38' 00.83"W
Radius 50.000'
Delta 5°05'17"(LT)
Length 4.440'
Tangent 2.222'
Chord Direction S52° 05' 22.43"W Distance 4.439'
Direction Ahead S49° 32' 44.04"W

EC N 3,906,185.9391 E 11,483,606.3009 10+65.23
Curve (2)

Line (3)
S49° 32' 44.04"W 34.768'
N 3,906,163.3800 E 11,483,579.8451 11+00.00
Line (3)

N 3,906,163.3800 E 11,483,579.8451 11+00.00
End Entrance 2

****
Alignment Length: 100.000'
****

ENTRANCE 3

Alignment Name: Entrance 3
Station Range: Start: 10+00.00, End: 10+75.00
Description:
****

Begin Entrance 3
N 3,906,207.0879 E 11,483,671.4109 10+00.00

Line (1)
S54° 00' 29.06"W 34.522'
N 3,906,186.8004 E 11,483,643.4792 10+34.52
Line (1)

Curve (2)
BC N 3,906,186.8004 E 11,483,643.4792 10+34.52
CTR N 3,906,146.3454 E 11,483,672.8628
PI N 3,906,183.4279 E 11,483,638.8360

Direction Back S54° 00' 29.06"W
Radius 50.000'
Delta 13°05'42"(LT)
Length 11.427'
Tangent 5.739'
Chord Direction S47° 27' 38.18"W Distance 11.403'
Direction Ahead S40° 54' 47.30"W

EC N 3,906,179.0911 E 11,483,635.0776 10+45.95
Curve (2)

Line (3)
S40° 54' 47.30"W 10.054'
N 3,906,171.4930 E 11,483,628.4929 10+56.00
Line (3)

Curve (4)
BC N 3,906,171.4930 E 11,483,628.4929 10+56.00
CTR N 3,906,204.2387 E 11,483,590.7077
PI N 3,906,169.3225 E 11,483,626.6119

Direction Back S40° 54' 47.30"W
Radius 50.000'
Delta 6°34'31"(RT)
Length 5.738'
Tangent 2.872'
Chord Direction S44° 12' 02.57"W Distance 5.735'
Direction Ahead S47° 29' 17.83"W

EC N 3,906,167.3817 E 11,483,624.4947 10+61.74
Curve (4)

Line (5)
S47° 29' 17.83"W 13.258'
N 3,906,158.4225 E 11,483,614.7215 10+75.00
Line (5)

N 3,906,158.4225 E 11,483,614.7215 10+75.00
End Entrance 3

****
Alignment Length: 75.000'
****

ENTRANCE 4

Alignment Name: Entrance 4
Station Range: Start: 10+00.00, End: 10+70.00
Description:
****

Begin Entrance 4
N 3,905,947.9031 E 11,483,856.3216 10+00.00

Line (1)
S61° 10' 21.42"W 25.274'
N 3,905,935.7165 E 11,483,834.1792 10+25.27
Line (1)

Curve (2)
BC N 3,905,935.7165 E 11,483,834.1792 10+25.27
CTR N 3,905,874.3911 E 11,483,867.9313
PI N 3,905,928.8060 E 11,483,821.6233

Direction Back S61° 10' 21.42"W
Radius 70.000'
Delta 23°08'31"(LT)
Length 28.273'
Tangent 14.332'
Chord Direction S49° 36' 06.07"W Distance 28.081'
Direction Ahead S38° 01' 50.73"W

EC N 3,905,917.5170 E 11,483,812.7937 10+53.55
Curve (2)

Line (3)
S38° 01' 50.73"W 16.452'
N 3,905,904.5578 E 11,483,802.6576 10+70.00
Line (3)

N 3,905,904.5578 E 11,483,802.6576 10+70.00
End Entrance 4

****
Alignment Length: 70.000'
****

ENTRANCE 5

Alignment Name: Entrance 5
Station Range: Start: 10+00.00, End: 11+00.00
Description:
****

Begin Entrance 5
N 3,905,664.3882 E 11,484,051.8514 10+00.00

Line (1)
S50° 04' 50.47"W 25.542'
N 3,905,647.9979 E 11,484,032.2622 10+25.54
Line (1)

Curve (2)
BC N 3,905,647.9979 E 11,484,032.2622 10+25.54
CTR N 3,905,617.3199 E 11,484,057.9305
PI N 3,905,645.8346 E 11,484,029.6767

Direction Back S50° 04' 50.47"W
Radius 40.000'
Delta 9°38'05"(LT)
Length 6.726'
Tangent 3.371'
Chord Direction S45° 15' 47.75"W Distance 6.718'
Direction Ahead S40° 26' 45.02"W

EC N 3,905,643.2691 E 11,484,027.4898 10+32.27
Curve (2)

Line (3)
S40° 26' 45.02"W 11.191'
N 3,905,634.7525 E 11,484,020.2299 10+43.46
Line (3)

Curve (4)
BC N 3,905,634.7525 E 11,484,020.2299 10+43.46
CTR N 3,905,618.5343 E 11,484,039.2553
PI N 3,905,623.7525 E 11,484,010.8529

Direction Back S40° 26' 45.02"W
Radius 25.000'
Delta 60°04'14"(LT)
Length 26.211'
Tangent 14.454'
Chord Direction S10° 24' 37.82"W Distance 25.027'
Direction Ahead S19° 37' 29.39"E

EC N 3,905,610.1378 E 11,484,015.7075 10+69.67
Curve (4)

Line (5)
S19° 37' 29.39"E 30.330'
N 3,905,581.5695 E 11,484,025.8942 11+00.00
Line (5)

N 3,905,581.5695 E 11,484,025.8942 11+00.00
End Entrance 5

****
Alignment Length: 100.000'
****

ENTRANCE 6

Alignment Name: Entrance 6
Station Range: Start: 10+00.00, End: 10+50.00
Description:
****

Begin Entrance 6
N 3,905,583.5999 E 11,484,119.4471 10+00.00

Line (1)
S50° 04' 50.47"W 50.000'
N 3,905,551.5145 E 11,484,081.0997 10+50.00
Line (1)

N 3,905,551.5145 E 11,484,081.0997 10+50.00
End Entrance 6

****
Alignment Length: 50.000'
****

BUCKINGHAM ROAD

Alignment Name: Buckingham Road
Station Range: Start: 10+00.00, End: 11+00.00
Description:
****

Begin Buckingham Road
N 3,905,392.7944 E 11,484,425.9299 10+00.00

Line (1)
S9° 26' 53.08"W 13.663'
N 3,905,379.3166 E 11,484,423.6871 10+13.66
Line (1)

Curve (2)
BC N 3,905,379.3166 E 11,484,423.6871 10+13.66
CTR N 3,905,395.7320 E 11,484,325.0436
PI N 3,905,358.9694 E 11,484,420.3011

Direction Back S9° 26' 53.08"W
Radius 100.000'
Delta 23°18'36"(RT)
Length 40.683'
Tangent 20.627'
Chord Direction S21° 06' 10.85"W Distance 40.403'
Direction Ahead S32° 45' 28.61"W

EC N 3,905,341.6229 E 11,484,409.1400 10+54.35
Curve (2)

Line (3)
S32° 45' 28.61"W 45.653'
N 3,905,303.2299 E 11,484,384.4373 11+00.00
Line (3)

N 3,905,303.2299 E 11,484,384.4373 11+00.00
End Buckingham Road

****
Alignment Length: 100.000'
****

60% PLANS

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DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE 06/18/2021
DRAWN BY KJH
DESIGNED BY KJH
CHECKED BY BTC
SCALE N/A

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
ALIGNMENT DATA SHEET

JOB NO. 43569
SHEET NO. 1B

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STORM SEWER STRUCTURES

#1107
STORM MH
RIM=456.13'
INV IN= 451.15' (30" RCP FROM #1487)
INV IN= 451.23' (18" RCP FROM #1106)
INV OUT= 450.98' (30" RCP TO #1244)

#1244
STORM MH
RIM=456.48'
INV IN= 446.62' (30" RCP FROM #7458)
INV OUT= 446.63' (30" RCP TO #1107)

#1488
CATCH BASIN 12inDIA
TOP=443.20'
INV IN= 441.31' (10" PVC FROM #1491)

#1491
RIM=444.41'
INV IN= 435.62' (15" RCP FROM #7702)
INV IN= 441.38' (10" PVC FROM #1488)
INV OUT= 435.59' (15" RCP TO POSSIBLE 6' X 6' CULVERT)

#1810
STORM MH
RIM=433.34'
INV IN= 424.41 (36" RCP FROM #1853)
INV IN= 424.19' (36" RCP TO A.D.)

#1853
STORM MH
RIM=442.14'
INV IN= 433.99' (36" RCP FROM #1874)
INV OUT= 433.92' (36" RCP TO #1810)

#1988
GRATE INLET
TOP=441.31'
(NO PIPES VISIBLE - POSSIBLE DROP INTO 6' X 6' CHAMBER)
0.8 X 3.0 OPENING IN STRUCTURE = 438.39'

#2056
STORM MH
RIM=465.58'
INV OUT= 461.45' (15" RCP TO #7702)

#2059
GRATE INLET
TOP=445.68'
INV IN= 442.69' (21" RCP FROM A.D.)
INV OUT= 441.48' (24" RCP TO #7458)

#6361
STORM MH
RIM=443.09'
INV IN= 440.01' (15" RCP FROM #6366)
INV OUT= 439.97' (18" RCP TO #7567)

#6366
GRATE INLET
TOP=443.28'
(FULL OF DIRT- PIPES INACCESSIBLE)
TOP OF DIRT = 442.4±

#6472
STORM MH
RIM=443.12'
INV OUT= 439.87' (15" RCP TO #6515)

#6515
RIM=441.44'
STORM MH
INV IN= 438.96' (15" RCP FROM #6472)
INV OUT= 438.95' (TWIN 12" IRON TRANSITION TO 18" RCP TO #8002)

#6579
RIM=441.76'
STORM MH
INV IN= 433.83' (24" RCP FROM #7459)
INV IN= 435.57" (24" RCP FROM A.D.)
INV OUT= 433.81' (30" RCP TO #8002)

#6655
STORM MH
RIM=441.96'
INV OUT= 435.78' (18" RCP TO #8002)

#6697
STORM MH
RIM=443.60'
INV IN= 441.56' (8" IRON FROM NW)
INV OUT= 438.97" (15" RCP TO SW)

#6860
STORM MH
RIM=444.40'
INV IN= 440.97 (15" RCP FROM SE)
INV OUT= 441.05' (15" RCP TO #7459)

#7458
STORM MH
RIM=445.67'
INV IN= 439.91' (24" RCP FROM NE)
INV OUT= 439.97' (24" RCP TO #7459)

#7459
STORM MH
RIM=444.48'
INV IN= 439.11' (24" RCP FROM #7458)
INV IN= 438.37' (15" RCP FROM #6860)
INV OUT= 435.21' (24" RCP TO #6579)

#7461
GRATE INLET
TOP=445.09'
INV OUT= 442.15' (12" RCP TO POSSIBLE BLIND CONNECTION BETWEEN #7458 - #2059)

#7507
GRATE INLET
TOP=443.73'
INV OUT= 441.45' (15" RCP TO #6361)

#7567
STORM MH
RIM=442.50'
INV IN= 438.10' (18" RCP FROM #6361)
INV OUT= 438.14' (18" RCP TO #7599)

#7599
STORM MH
RIM=441.96'
INV IN= 435.56' (9" PVC FROM SW)
INV IN= 437.24' (18" RCP FROM #7567)
INV OUT= 437.15' (18" RCP TO #8002)

#7702
STORM MH
RIM=451.36'
INV IN= 447.45' (15" RCP FROM #2056)
INV OUT= 447.28' (15" RCP TO #1491)

#8002
RIM=441.71'
STORM MH
INV IN= 433.34' (24" RCP FROM #6579)
INV IN= 433.58' (18" RCP FROM #6655)
INV IN= 435.74' (18" RCP FROM 6515)
INV OUT= 433.16' (30" RCP TO #87003)

#8003
RIM=441.68'
STORM MH
INV IN= 431.87' (30" RCP FROM #8002)
INV OUT= 431.55' (36" RCP TO SE)

SANITARY SEWER STRUCTURES

#6251
SANITARY MH
RIM=444.94'
INV IN= 435.53' (18" TC FROM #6516)
INV IN= 435.44' (UNK SIZE & MATERIAL FROM #7533)
INV IN= 435.53' (UNK SIZE & MATERIAL FROM #7816)
INV OUT= 435.44' (18" TC TO #10003-OFFSITE)

#6516
SANITARY MH
RIM=445.85'
INV IN= 437.31' (18" DI FROM #7814)
INV IN= 437.35' (18" TC FROM #7460)
INV IN= 437.40' (8" DI FROM #8004)
INV IN= 437.84' (6" DI FROM NW)
INV OUT= 437.26' (18" TC TO #6251)

#6859
SANITARY MH
RIM=445.98'
INV IN= 437.87' (15" TC FROM NW-OFFSITE)
INVE OUT= 438.08' (15" TC TO #7460

#7460
SANITARY MH
RIM=444.15'
INV IN= 437.06' (15" TC FROM #6859)
INV OUT= 437.21' (18" TC TO #6516)

#7533
SANITARY MH
RIM=444.13'
INV OUT= 436.87' (UNK SIZE & MATERIAL TO #6251)

#7700
SANITARY MH
RIM=456.32'
INV IN= 444.48' (6" TC FROM #7818)
INV IN= 451.45' (6" TC FROM #7701)
INV OUT= 444.50' (8"TC TO #7817)

#7701
SANITARY MH
RIM=456.15'
INV IN= 451.85' (6" TC FROM SW)
INV OUT= 451.72' (6" TC TO #7700)

#7814
SANITARY MH
RIM=444.81'
INV IN= 437.46' (18" DI FROM NW)
INV IN= 440.42' (4" DI FROM SW)
INV OUT= 437.53' (18" DI TO #6516)

#7816
DRY SANITARY MH
RIM=444.04'
C/L ELEVATION= 440.10' (PIPES SURCHARGED W/DIRT)

#7817
SANITARY MH OFFSITE
RIM=454.21'
INV IN= 441.93' (18" TC TO NW)
INV IN= 443.32' (8" TC FROM #7700)
INV OUT= 441.87' (18" TC TO NW)

#8001
RIM=441.71'
SANITARY MH
INV IN= 438.24' 8" DI FROM #8000)
INV IN= 438.52' (6" DI FROM SW)
INV OUT= 438.20' (8" DI TO #8004)

#8004
RIM=441.68'
SANITARY MH
INV IN= 437.38' (8" DI FROM #8001)
INV OUT= 437.40' (8" DI TO #6516)

UTILITY OWNERSHIP LIST

ELECTRIC
DOMINION ENERGY INC.
1719 HYDRAULIC ROAD
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FIBERLIGHT
3000 SUMMIT PLACE, SUITE 200
ALPHARETTA, GA 30009
CONTACT: AMALFI ARIAS
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TING
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PHONE: (434) 970-3908
EMAIL: nesterr@charlottesville.org

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605 E MAIN ST
CHARLOTTESVILLE, VA 22902
CONTACT: ROY NESTER
PHONE: (434) 970-3908
EMAIL: nesterr@charlottesville.org

TRAFFIC CONTROL
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605 E MAIN ST
CHARLOTTESVILLE, VA 22902
CONTACT: ROY NESTER
PHONE: (434) 970-3908
EMAIL: nesterr@charlottesville.org

LEGEND

- PAVEMENT MILLING
- FULL ASPHALT DEMOLITION (UP TO 18")
- FULL CONCRETE DEMOLITION (UP TO 18")
- LOD — LIMITS OF DISTURBANCE
- FULL DEMOLITION OF EXISTING CURB
- REMOVE EXISTING TREE/SHRUB
- 1 — MOD. WP-2 SAWCUT REQ'D. (2' MINIMUM)

NOTE: DEMO SHEETS PROVIDED AS A GUIDE TO THE CONTRACTOR AND MAY NOT BE INCLUSIVE OF ALL WORK REQUIRED TO IMPLEMENT IMPROVEMENTS SHOWN IN THESE PLANS. VDOT SPECIFICATIONS GOVERN THE IDENTIFICATION OF INCIDENTAL WORK, MEASUREMENT AND PAYMENT

SEE MATCHLINE BELOW - STA. 207+00

SEE MATCHLINE ABOVE - STA. 207+00

SEE MATCHLINE SHEET 1C(4) - STA. 105+50

BARRACKS ROAD S.R. 654 (VARIABLE WIDTH R/W)

BARRACKS RD - WEST CONSTR. B

BARRACKS RD CONSTR. EAST B

EMMET STREET CONSTR. B

NORTH EMMET ST. U.S. ROUTE 29 (VARIABLE WIDTH R/W)

100+00 REMOVE SIGN

101+00 REMOVE SIGN

102+00 REMOVE SIGN, REMOVE SIGNAL POLES (TYP.), REMOVE SIGN

103+00 PROP. TEMPORARY CONSTRUCTION EASEMENT, DO NOT DISTURB POLES/LIGHTS, REMOVE YIELD SIGN, DO NOT DISTURB SUNTRUST SIGN, REMOVE SIGNAL POLES (TYP.), REMOVE STRUCTURE TOP, DO NOT DISTURB POLE

104+00 REMOVE SIGNAL POLE

105+00

200+00 201+00 202+00 203+00 204+00 205+00 206+00 207+00 208+00

PROP. PERMANENT TRAFFIC CONTROL EASEMENT, REMOVE SIGNAL POLES (TYP.), REMOVE STRUCTURE TOP

REMOVE SIGNAL POLES (TYP.)

REMOVE STRUCTURE

RELOCATE DECORATIVE GUIDE SIGN

DO NOT DISTURB STOP SIGN

DO NOT DISTURB

REMOVE SIGN

REMOVE SIGNAL POLES (TYP.)

REMOVE SIGN, REMOVE SIGNAL POLES (TYP.), REMOVE STRUCTURE TOP

REMOVE STRUCTURE TO BE MODIFIED

PROP. TEMPORARY CONSTRUCTION EASEMENT

PROP. RIGHT-OF-WAY, REMOVE ONE-WAY SIGN

PROP. PERMANENT ACCESS EASEMENT FOR PUBLIC SIDEWALK ACCESS

REMOVE ONE-WAY SIGN

DO NOT DISTURB

STRUCTURE TO BE CONVERTED TO MANHOLE, REMOVE STRUCTURE & PIPE

VARIABLE WIDTH R/W DEDICATION PER INSTR. #: 2018-00001797

DOUBLE 6'X6' BOX CULVERT SHOWN AS PER 2015 SURVEY BY JENNINGS STEPHENSON

Variable Width Public Access Easement (sidewalk) Instr. #: 2018-00001798

10' Public Utility Easement Instr. #: 2018-00001798

MEADOWBROOK CORNER LLC INSTR. #: 2018-00000073 (TMP 1-4) TAX PARCEL: 010004100 1170 N. EMMET ST 1.191 AC.

MEADOWBROOK SHOPPING CENTER LLC D.B. 685, PG. 683 BLA INSTR. #: 2018-00000073 (TMP 1-4) TAX PARCEL: 010004000 1138 N. EMMET ST 2.505 AC.

FEDERAL REALTY INVESTMENT TRUST D.B. 793, PG. 231 (PARCEL ONE-FIRST) TAX PARCEL: 010001000 1117 N. EMMET ST 39.830 AC.

FEDERAL REALTY INVESTMENT TRUST D.B. 793, PG. 231 (PARCEL ONE-SECOND) TAX PARCEL: 010001000 1117 N. EMMET ST 39.830 AC.

UNITED STATES OF AMERICA D.B. 431, PG. 735 TAX PARCEL: 040001100 1202 N. EMMET ST

GAD, L.L.C. D.B. 853, PG. 22 PLAT: D.B. 364, PG. 190 (LOT 3A) TAX PARCEL: 400002300 0 N. EMMET ST 0.309 AC.

ADONAI DEGEL PROPERTIES, LLC D.B. 1169, PG.170 TAX PARCEL: 400002400 1232 N. EMMET ST 0.309 AC.

GAD, L.L.C. D.B. 853, PG. 22 PLAT: D.B. 248, PG. 551 (LOT 2) TAX PARCEL: 400002200 1230 N. EMMET ST 0.382 AC.

BARRACKS ROW, L.L.C. INSTR. #: 2017-00001425 PLAT: D.B. 248, PG. 551 (LOT 1) TAX PARCEL: 400002100 1200 N. EMMET ST 0.840 AC.

H&B CTRL #1 N=3907198.75 E=11483020.57 ELEV=452.02 CTRL PT: NAIL

H&B CTRL #1190 N=3907264.12 E=11483388.12 ELEV=44[illegible] CTRL PT: MAG NAIL

H&B CTRL #6135 N=3906874.14 E=11483261.44 ELEV=442.62 NAIL/S

R/W DEDICATION INSTR. #: 2017-00001426

VARIABLE WIDTH DRAINAGE & SIDEWALK ESM'T D.B. 243, PG. 250

APPROXIMATE LOCATION ZONE "A"

APPROXIMATE LOCATION ZONE "X-UNSHADED"

DO NOT DISTURB

SCALE 1"=25'

SHEET REFERENCES	
ALIGNMENT DATA SHEET	1B
MAINTENANCE OF TRAFFIC PLANS	1E SERIES
TYPICAL SECTIONS	2A(1) - 2A(2)
EROSION & SEDIMENT CONTROL PLAN	2B(3)
DRAINAGE AREA MAPS	2C(1) - 2C(6)
PLAN SHEET	3
BARRACKS ROAD PROFILE SHEET	3A
EMMET STREET PROFILE	3B
UTILITY PLAN SHEET	3C
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
PAVEMENT MARKING & SIGNING PLAN	9(6)
TRAFFIC SIGNAL PLAN	10(3)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS02 - XS06

Project #: NHPP-5104(275)
UPC: 111796

60% PLANS

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DATE	REVISION DESCRIPTION
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DATE 06/18/2021
DRAWN BY KJH
DESIGNED BY KJH
CHECKED BY BTC
SCALE 1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
EXISTING CONDITIONS & DEMOLITION PLAN SHEET

JOB NO. 43569
SHEET NO. 1C(3)

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L:\20\43569-Barracks_Emmet_Imp\DWG\Sheet\CD\43569-203C-01C(x).dwg | Plotted on 6/18/2021 11:36 AM | by Kyle Hogan

Project #: NHPP-5104(275)
UPC: 111796

UTILITY OWNERSHIP LIST

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	EMAIL: michael.moncreiffe@dominionenergy.com	*CATV*	
TELECOM		*COMCAST*	*CONTACT: PHILIP PERRY*
CENTURY LINK	*CONTACT: THERESA BRYANT*	*400 WESTFIELD ROAD*	*PHONE: (434) 951-3812*
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CHARLOTTESVILLE, VA 22903	*EMAIL: theresa.bryant@centurylink.com*		
		WATER	
VERIZON BUSINESS	*CONTACT: GENE MULLER*	*CITY OF CHARLOTTESVILLE*	*CONTACT: ROY NESTER*
	PHONE: (703) 801-9532	*605 E MAIN ST*	*PHONE: (434) 970-3908*
	EMAIL: gene.muller@verizon.com	*CHARLOTTESVILLE, VA 22902*	*EMAIL: nesterr@charlottesville.org*
FIBER			
CROWN CASTLE	*CONTACT: RICK STRANSKY*	*GAS*	
1500 CORPORATE DRIVE	*EMAIL: rick.stransky@crowncastle.com*	*CITY OF CHARLOTTESVILLE*	*CONTACT: ROY NESTER*
CANONSBURG, PA 15317		*605 E MAIN ST*	*PHONE: (434) 970-3908*
	CONTACT: AMALFI ARIAS	*CHARLOTTESVILLE, VA 22902*	*EMAIL: nesterr@charlottesville.org*
FIBERLIGHT	*EMAIL: amalfi.arias@fiberlight.com*		
3000 SUMMIT PLACE, SUITE 200		*TRAFFIC CONTROL*	
ALPHARETTA, GA 30009	*CONTACT: DEAN SCHEIDT*	*CITY OF CHARLOTTESVILLE*	*CONTACT: ROY NESTER*
	PHONE: (804) 297-3017	*605 E MAIN ST*	*PHONE: (434) 970-3908*
SEGRA	*EMAIL: dean.scheidt@segra.com*	*CHARLOTTESVILLE, VA 22902*	*EMAIL: nesterr@charlottesville.org*
1 LUMOS PLAZA			
WAYNESBORO, VA 22980	*CONTACT: KYLE VRHOVAC*		
	PHONE: (434) 327-7347		
TING	*EMAIL: kyle@ting.com*		

60% PLANS

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TEL 804.200.6500 FAX 804.560.1016 www.timmons.com

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DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE 06/18/2021
DRAWN BY KJH
DESIGNED BY KJH
CHECKED BY BTC
SCALE 1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

EXISTING CONDITIONS & DEMOLITION PLAN SHEET

JOB NO. 43569
SHEET NO. 1C(4)

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SEE MATCHLINE SHEET 1C(3) - STA. 105+50

SEE MATCHLINE SHEET 1C(5) - STA. 112+00

H&B CTRL #9003
N=3906800.86
E=11483491.99
ELEV=458.98
CTRL PT: NAIL

H&B CTRL #2
N=3906767.62
E=11483315.19
ELEV=440.79
NAILG

H&B CTRL #2032
N=3906582.35
E=11483332.26
ELEV=444.05
CTRL PT: NAIL

MARY W. L. COWAN, TRUSTEE OF THE MARY W. L. COWAN
INSTR. #: 2013-002771
TAX PARCEL: 400020000
2033 HESSIAN RD
D.B. 229, PG. 424,
D.B. 987, PG. 722
0.997 AC.

PATTYE H. LEGGETT, TRUSTEE
INSTR. #: 2016-00001658
TAX PARCEL: 400033000
2022 HESSIAN RD
PLAT:D.B. 122, PG. 52
PLAT:D.B. 158, PG. 337
0.510 AC.

DANIEL M. FELLOWS
KATHERINE H. FELLOWS
INSTR. #: 2016-00002720
TAX PARCEL: 400034000
2035 HESSIAN RD
D.B. 229, PG. 424
0.80Z AC.

ROY CANNON THOMAS
DEIRDRE B. THOMAS, TRUSTEES
INSTR. #: 2017-00004280
(PER DESCRIPTION)
TAX PARCEL: 400032000
2018 HESSIAN RD
PLAT:D.B. 122, PG. 52
PLAT:D.B. 158, PG. 337
0.868 AC.

MEADOWBROOK CORNER LLC
INSTR. #: 2018-00000073 (TMP 1-4.1)
TAX PARCEL: 010004100
1170 N. EMMET ST
7.191 AC.

MEADOWBROOK SHOPPING CENTER LLC
D.B. 685, PG. 683
BLA INSTR. #: 2018-00000073 (TMP 1-4)
TAX PARCEL: 010004000
1138 N. EMMET ST
2.505 AC.

TIMOTHY J. HEAPHY
LORI J. SHINSEKI
D.B. 892, PG. 324 (LOTS 9 &10)
TAX PARCEL: 010006000
2028 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.890 AC.

ELIZABETH A. M. BOOKER, TRUSTEE
D.B. 651, PG. 842 (LOT11)
(LESS & EXCEPT: D.B. 892, PG. 324, LOTS 9 & 10)
TAX PARCEL: 010005000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
0.830 AC.

TIMOTHY J. HEAPHY
LORI J. SHINSEKI
D.B. 892, PG. 324 (LOTS 9 &10)
TAX PARCEL: 010006000
2028 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.890 AC.

TIMOTHY J. HEAPHY
LORI J. SHINSEKI
D.B. 892, PG. 324 (LOTS 9 &10)
TAX PARCEL: 010006000
2028 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.890 AC.

SANITARY SEWER STRUCTURES

#3360
SANITARY MH
RIM=446.76'
INV OUT= 44.01' (6" DI TO 8" TC
(TO POSSIBLE BLIND CONNECTION - #3904 TO #7764))

#3904
SANITARY MH
RIM=446.32'
INV IN= 444.00' (8" TC FROM #7770)
INV OUT= 443.96' (8" TC TO #7764)

#7370
RIM=441.53'
SANITARY MH
INV OUT= 439.42' (4" TC TO #8000)

#7764
SANITARY MH
RIM=442.42'
INV IN= 440.02' (4" TC FROM SW)
INV IN= 439.56' (8" TC FROM #3904)
INV OUT= 439.51' (6" DI TO #8001)

#7770
SANITARY MH
RIM=458.62'
INV OUT= 453.89' (8"TC TO #3904)

#7818
SANITARY MH OFFSITE
RIM=461.30'
INV IN= 444.84' (4" TC FROM SE)
INV OUT= 444.87' (6" TC TO #7700)

#8000
RIM=441.14'
SANITARY MH
INV IN= 439.10' (8" DI FROM #7764)
INV IN= 439.12' (4" TC FROM #7370)
INV OUT= 439.07' (8" DI TO #8000)

#10003 (OFFSITE)
SANITARY MH
RIM=446.21'
INV OUT= 433.66' (18" from #6251)

STORM SEWER STRUCTURES

#1874
STORM MH
RIM=441.00'
PIPES RECESSED - INACCESSIBLE)
C/L STRUCTURE= 435.88'

#1907
STORM MH
RIM=441.57'
(PIPES RECESSED - INACCESSIBLE)
C/L STRUCTURE= 436.57'

#2031
GRATE INLET
TOP=442.90'
INV IN= 439.02' (15" RCP FROM A.D.)
INV OUT= 439.01' (15" RCP TO #1907)

#2034
GRATE INLET
TOP=444.05'
INV OUT= 438.23' (30" RCP TO #1907)

#2872
STORM MH
RIM=436.48'
INV IN= 433.09' (12" PVC FROM #7355)
INV OUT= 433.07' (24" RCP TO #7219)

#7201
STORM MH
RIM=435.86'
INV IN= 431.71' (24" RCP FROM #7219)
INV OUT= 431.66' (24" RCP TO NW)

SHEET REFERENCES

ALIGNMENT DATA SHEET	1B
MAINTENANCE OF TRAFFIC PLANS	1E SERIES
TYPICAL SECTIONS	2A(1) - 2A(2)
EROSION & SEDIMENT CONTROL PLAN	2B(4)
DRAINAGE AREA MAPS	2C(1) - 2C(6)
PLAN SHEET	4
BARRACKS ROAD PROFILE SHEET	4A
UTILITY PLAN SHEET	4B
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
PAVEMENT MARKING & SIGNING PLAN	9(4)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS06 - XS08

NOTE: DEMO SHEETS PROVIDED AS A GUIDE TO THE CONTRACTOR AND MAY NOT BE INCLUSIVE OF ALL WORK REQUIRED TO IMPLEMENT IMPROVEMENTS SHOWN IN THESE PLANS. VDOT SPECIFICATIONS GOVERN THE IDENTIFICATION OF INCIDENTAL WORK, MEASUREMENT AND PAYMENT

LEGEND

- PAVEMENT MILLING
- FULL ASPHALT DEMOLITION (UP TO 18")
- FULL CONCRETE DEMOLITION (UP TO 18")
- LOD — LIMITS OF DISTURBANCE
- FULL DEMOLITION OF EXISTING CURB
- REMOVE EXISTING TREE/SHRUB
- 1 — MOD. WP-2 SAWCUT REQ'D. (2' MINIMUM)

SCALE 1"=25'
0 25' 50'

NAD 83

L:\20243569-Barracks_Emmet_Imp\DWG\Sheet\CD\43569-203C-01C(4).dwg | Plotted on 6/18/2021 1:08 PM | by Kyle Hogan

Project #: NHPP-5104(275)
UPC: 111796

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SEE MATCHLINE SHEET 1C(4) - STA. 112+00

SEE MATCHLINE SHEET 1C(6) - STA. 118+50

LOT 83-B

LOT 83 (IN PART)
"MEADOWBROOK HILLS"
PLAT: D.B. 158, PG. 337
0.710 AC.

FREDERICK G. RIBBLE
ANNE BENEDICTA GOODSON
D.B. 374, PG. 277
PLAT: D.B. 360, PG. 597
TAX PARCEL: 400031000
2014 HESSIAN RD
PLAT:D.B. 158, PG. 337
0.813 AC.

ANDREW DUNNINGTON
MOLLY DUNNINGTON
INSTR. #: 2012-005046
PLAT: D.B. 106, PG. 362
TAX PARCEL: 400030000
2010 HESSIAN RD
PLAT:D.B. 158, PG. 337
0.759 AC.

GREGORY ORR
PATRICA ORR
D.B. 522, PG. 817
PLAT: D.B. 522, PG. 820 (PARCEL B1)
D.B. 457, PG. 777
PLAT: D.B. 126, PG. 181 (LOT 83-B)
TAX PARCEL: 400028000
2006 HESSIAN RD
PLAT:D.B. 158, PG. 337
0.710 AC.

J. DAVID SUMMERS
NANCY E. SUMMERS
D.B. 522, PG. 817
PLAT: D.B. 522, PG. 820 (PARCEL B2)
D.B. 451, PG. 36
PLAT: D.B. 451, PG. 38 (PARCEL A)
TAX PARCEL: 400029000
1201 BLUE RIDGE RD
PLAT:D.B. 158, PG. 337
1.017 AC.

PARCEL A
LOT 84 (IN PART)
"MEADOWBROOK HILLS"
1.017 AC.

10' STRIP - NF RED-LAND LAND CORPORATION, D.B. 152, PG. 220, PLAT: D.B. 106, PG. 362 PLAT: D.B. 360, PG. 597

BLUE RIDGE ROAD
(VARIABLE WIDTH R/W)

BARRACKS ROAD - S.R. 654

BARRACKS RD - EAST CONSTR. B

H&B CTRL #4
N=3906184.76
E=11483658.25
ELEV=474.15
T-BAR/S

H&B CTRL #5
N=3905962.40
E=11483825.71
ELEV=492.23
TBAR/S

H&B CTRL #6
N=3905722.53
E=11483978.14
ELEV=504.46
T-BAR/S

PROP. RIGHT-OF-WAY

PROP. TEMPORARY CONSTRUCTION EASEMENT

PROP. PERMANENT DOMINION ENERGY UTILITY EASEMENT

REMOVE SIGN

006 GREGORY A. MENKE, CHRISTINA P. MENKE, D.B. 430, PG. 456 (LOTS 7 & 8), PLAT: D.B. 256, PG. 347, TAX PARCEL: 010007000, 1930 BARRACKS RD, PLAT:D.B. 215, PG. 480, 2.069 AC.

005 TIMOTHY J. HEAPHY, LORI J. SHINSEKI, D.B. 892, PG. 324 (LOTS 9 &10), TAX PARCEL: 010006000, 2028 BARRACKS RD, PLAT:D.B. 215, PG. 480, 1.890 AC.

006 GREGORY A. MENKE, CHRISTINA P. MENKE, D.B. 430, PG. 456 (LOTS 7 & 8), PLAT: D.B. 256, PG. 347, TAX PARCEL: 010007000, 1930 BARRACKS RD, PLAT:D.B. 215, PG. 480, 2.069 AC.

007 THOMAS F. GALLAGHER, WILL INSTR. #:2015-00000044, D.B. 455, PG. 14 (LOT 6 & NW 25' OF LOT 5), TAX PARCEL: 010008000, 0 BARRACKS RD, PLAT:D.B. 215, PG. 480, 1.369 AC.

007 THOMAS F. GALLAGHER, WILL INSTR. #:2015-00000044, D.B. 455, PG. 14 (LOT 6 & NW 25' OF LOT 5), TAX PARCEL: 010009000, 1920 BARRACKS RD, PLAT:D.B. 215, PG. 480, 2.026 AC.

007 THOMAS F. GALLAGHER, WILL INSTR. #:2015-00000044, D.B. 455, PG. 14 (LOT 6 & NW 25' OF LOT 5), TAX PARCEL: 010008000, 0 BARRACKS RD, PLAT:D.B. 215, PG. 480, 1.369 AC.

007 IRR HH, THOMAS F. GALLAGHER, WILL INSTR. #:2015-00000044, D.B. 455, PG. 14 (LOT 3), TAX PARCEL: 020001500, 0 BARRACKS RD, PLAT:D.B. 215, PG. 480, 1.148 AC.

007 THOMAS F. GALLAGHER, WILL INSTR. #:2015-00000044, D.B. 455, PG. 14 (LOT 3), TAX PARCEL: 020002000, 0 BARRACKS RD, PLAT:D.B. 215, PG. 480, 0.574 AC.

SCALE 1"=25'
0 25' 50'

UTILITY OWNERSHIP LIST

ELECTRIC		QWEST GOVERNMENT SERVICES	CONTACT: NOAH DOBBINS
DOMINION ENERGY,INC.	CONTACT: NATE HORSTICK	2900 TOWEVIEW ROAD	PHONE: (703) 464-7529
1719 HYDRAULIC ROAD	EMAIL: nathaniel.d.horstick@dominionenergy.com	HERNDON, VA 20171	EMAIL: noah.dobbins@centurylink.com
CHARLOTTESVILLE, VA 22901	CONTACT: MICHAEL MONCRIEFFE		
	EMAIL: michael.moncrieffe@dominionenergy.com	CATV	
TELECOM		COMCAST	CONTACT: PHILIP PERRY
CENTURY LINK	CONTACT: THERESA BRYANT	400 WESTFIELD ROAD	PHONE: (434) 951-3812
417 W. MAIN STREET	PHONE: (434) 956-3833	CHARLOTTESVILLE, VA 22901	EMAIL: philip_perry@comcast.com
CHARLOTTESVILLE, VA 22903	EMAIL: theresa.bryant@centurylink.com		
		WATER	
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	EMAIL: gene.muller@verizon.com	CHARLOTTESVILLE, VA 22902	EMAIL: nesterr@charlottesville.org
FIBER		GAS	
CROWN CASTLE	CONTACT: RICK STRANSKY	CITY OF CHARLOTTESVILLE	CONTACT: ROY NESTER
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3000 SUMMIT PLACE, SUITE 200	EMAIL: amalfi.arias@fiberlight.com	TRAFFIC CONTROL	
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		605 E MAIN ST	PHONE: (434) 970-3908
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PLAN SHEET	5
BARRACKS ROAD PROFILE SHEET	5A
UTILITY PLAN SHEET	5B
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
PAVEMENT MARKING & SIGNING PLAN	9(5)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS08 - XS11

LEGEND

- PAVEMENT MILLING
- FULL ASPHALT DEMOLITION (UP TO 18")
- FULL CONCRETE DEMOLITION (UP TO 18")
- LOD — LIMITS OF DISTURBANCE
- FULL DEMOLITION OF EXISTING CURB
- REMOVE EXISTING TREE/SHRUB
- 1 — MOD. WP-2 SAWCUT REQ'D. (2' MINIMUM)

60% PLANS

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30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS	3/20/2020
60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	7/31/2020
60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	2/12/2021

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

EXISTING CONDITIONS & DEMOLITION PLAN SHEET

JOB NO. 43569
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Project #: NHPP-5104(275)
UPC: 111796

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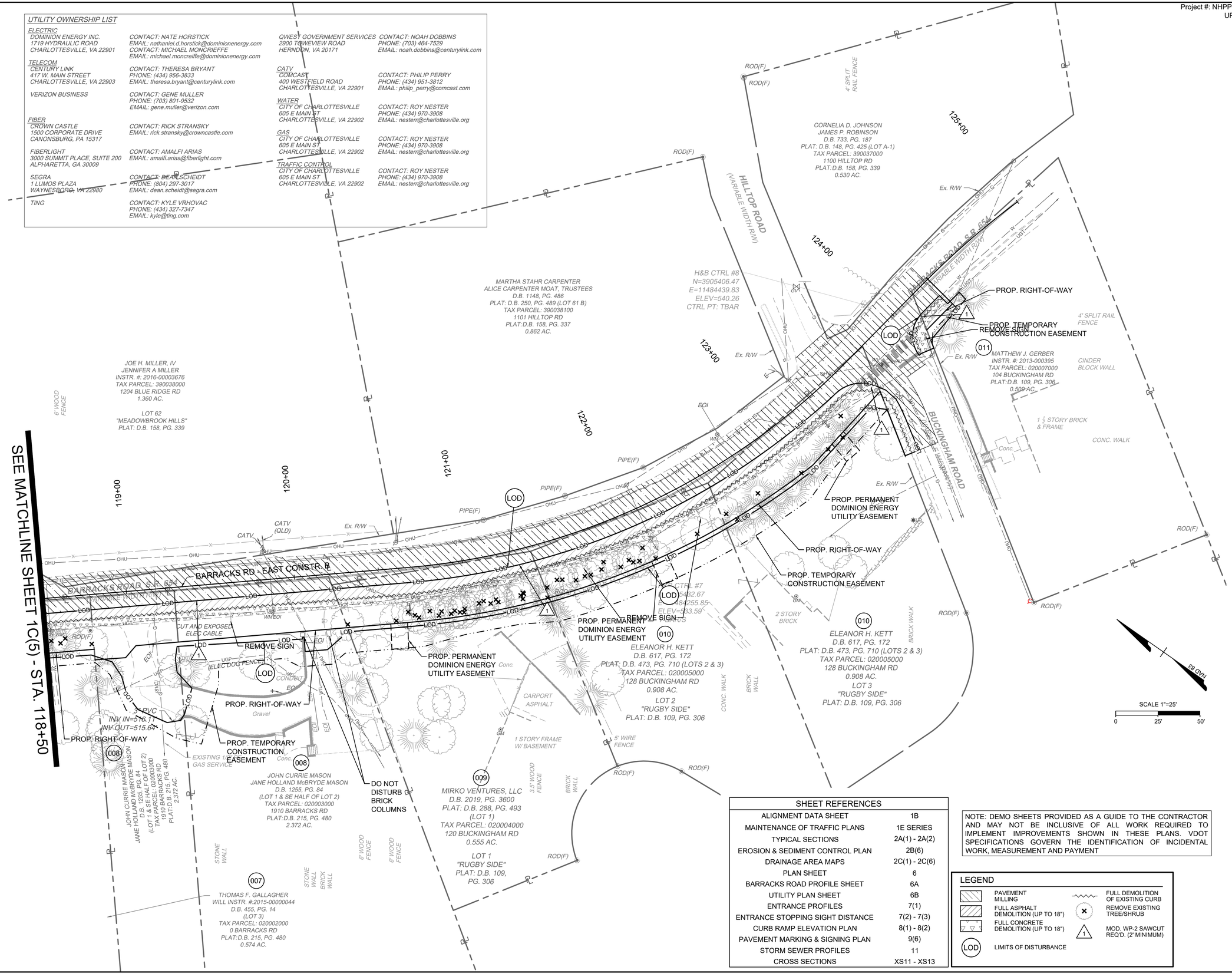
CONTACT: ROY NESTER
PHONE: (434) 970-3908
EMAIL: nesterr@charlottesville.org



SHEET REFERENCES	
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PLAN SHEET	6
BARRACKS ROAD PROFILE SHEET	6A
UTILITY PLAN SHEET	6B
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
PAVEMENT MARKING & SIGNING PLAN	9(6)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS11 - XS13

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LEGEND
- PAVEMENT MILLING
- FULL ASPHALT DEMOLITION (UP TO 18")
- FULL CONCRETE DEMOLITION (UP TO 18")
- LIMITS OF DISTURBANCE
- FULL DEMOLITION OF EXISTING CURB
- REMOVE EXISTING TREE/SHRUB
- MOD. WP-2 SAWCUT REQ'D. (2' MINIMUM)

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SHEET NO. 1C(6)

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Project #: NHPP-5104(275)
UPC: 111796

Underground Utility Test Hole Information Sheet

Plan Sheet	Test Hole No.	Alignment	Station	Offset	Side	Owner	Type of Facility	Elevation (ft)1	Depth (ft)2	Vertical Conflict3	Remarks4	Utility Adjustment Required5
3C	**1**	Emmet Street	201+21.33	43.92	Right	Gas	No Utility Found	450.74	N/A	No	No Utility Found, No Conflict	NO
3C	**2**	Emmet Street	203+33.64	-46.72	Left	Fiber Optic	CIP Concrete	442.93	1.37	No	Bottom of utility not found.	NO
3C	**3**	Emmet Street	203+28.41	-38.57	Left	Telephone	CIP Concrete Telephone Duct	443.00	2.57	No	Bottom at depth of 3.61'. Cover sufficient for installation of traffic conduit.	NO
3C	**4**	Emmet Street	203+25.69	40.90	Right	Electric	2" Steel Electrical Conduit	442.99	1.23	Yes	Proposed traffic conduit installation depth to be at least 2.5' to pass below electric conduit.	NO
3C	**5**	Emmet Street	204+62.73	-37.92	Left	Telephone	CIP Concrete Telephone Duct	441.55	4.21	No	Bottom at depth of 5.07'.	NO
3C	**6**	Barracks Road - East	107+32.94	30.83	Right	Gas	2" Plastic Gas Line	441.64	2.94	Yes	Spot lowering of gas line required.	YES
4B	**7**	Barracks Road - East	107+37.72	23.27	Right	Telephone	CIP Concrete Telephone Duct	441.93	2.30	Yes	Bottom at depth of 3.82'. Full relocation required to Sta. 109+50	YES
4B	**8**	Barracks Road - East	107+72.10	26.41	Right	Gas	2" Plastic Gas Line	442.89	3.32	No		NO
4B	**9**	Barracks Road - East	108+16.19	24.01	Right	Gas	2" Plastic Gas Line	444.29	3.40	No		NO
4B	**10**	Barracks Road - East	108+19.35	20.99	Right	Telephone	CIP Concrete Telephone Duct	444.56	2.53	Yes	Bottom at depth of 3.61'. Full relocation required from Sta. 107+40 to Sta. 109+50	YES
4B	**11**	Barracks Road - East	108+72.85	18.50	Right	Gas	4" Steel Gas Line	446.83	4.27	No	Pipe is slightly corroded and installed through an old water line. 1' provided between gas line and proposed storm sewer pipe.	NO
4B	**12**	Barracks Road - East	108+72.51	16.29	Right	Water	6" Cast Iron Water Line	446.79	2.59	No	Pipe is heavily corroded.	NO
4B	**13**	Barracks Road - East	108+71.53	19.25	Right	Telephone	CIP Concrete Telephone Duct	446.92	2.87	Yes	Bottom depth at 3.98'. Full relocation required from Sta. 107+40 to Sta. 109+50	YES
4B	**14**	Barracks Road - East	109+43.64	17.14	Right	Telephone	CIP Concrete Telephone Duct	451.14	4.35	Yes	Bottom depth at 5.51'. Full relocation required from Sta. 107+40 to Sta. 109+50	YES
5B	**15**	Barracks Road - East	112+16.48	22.08	Right	Gas	1" Plastic Gas Line	471.34	2.17	Yes	Spot lowering required.	YES
5B	**16**	Barracks Road - East	113+24.25	23.27	Right	Gas	.5" Plastic Gas Line	479.74	1.44	Yes	Spot lowering required.	YES
5B	**17**	Barracks Road - East	113+81.61	22.55	Right	Telephone	Precast Concrete Telephone Duct	482.89	3.77	No		NO
5B	**18**	Barracks Road - East	114+57.24	21.91	Right	Telephone	Precast Concrete Telephone Duct	486.94	3.49	No		NO
5B	**19**	Barracks Road - East	117+12.59	20.16	Right	Telephone	CIP Concrete Telephone Duct	498.63	4.01	No		NO
5B	**20**	Barracks Road - East	117+57.55	18.96	Right	Telephone	CIP Concrete Telephone Duct	501.09	3.88	No		NO
5B	**21**	Barracks Road - East	117+97.56	19.72	Right	Telephone	CIP Concrete Telephone Duct	503.44	3.57	No		NO
6B	**22**	Barracks Road - East	119+15.15	21.37	Right	Gas	.75" Plastic Gas Line	508.85	1.76	Yes	Spot lowering required.	YES

FOOTNOTES:

1. ELEVATIONS SHOWN ARE TO THE TOP OF THE FACILITY UNLESS OTHERWISE NOTED.
2. DEPTHS ARE MEASURED FROM THE EXISTING GROUND ELEVATIONS.
3. YES OR NO; NO INDICATES NO DIRECT CONFLICT. HOWEVER, CLEARANCES MAY BE LESS THAN ACCEPTABLE TO UTILITY OWNER.
4. REMARKS ARE MADE BY THE ENGINEER AND ARE INTENDED FOR GENERAL INTERPRETATION ONLY. THE CONTRACTOR AND/OR UTILITY OWNERS SHALL FORM INDEPENDENT OPINIONS OF CONFLICT BY REVIEWING THE INFORMATION PROVIDED.
5. YES OR NO; INFORMATION TO BE PROVIDED BY THE CITY OF CHARLOTTESVILLE PROJECT MANAGER.

60% PLANS

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DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/11/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: N/A

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
UNDERGROUND UTILITY TEST HOLE INFORMATION SHEET

JOB NO. 43569
SHEET NO. 1D

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TRANSPORTATION MANAGEMENT PLAN

Project #: NHPP-5104(275)
UPC: 111796

GENERAL:

1. THIS PROJECT IS CLASSIFIED AS TYPE B.
2. THE PROJECT LENGTH IS APPROXIMATELY 650 LF OF ROADWAY WIDENING AND 1700 LF OF SHARED USE PATH. THE WIDTH OF EACH WORK ZONE IS LESS THAN 80'.
3. THE PURPOSE OF THIS PROJECT IS TO PROVIDE OPERATIONAL IMPROVEMENTS AT THE BARRACKS ROAD AND N. EMMET STREET INTERSECTION, AS WELL AS CONSTRUCT A NEW SHARED USE PATH ALONG BARRACKS ROAD TO BUCKINGHAM ROAD. CONSTRUCTION CONSISTS OF WIDENING N. EMMET STREET TO PROVIDE A RIGHT TURN LANE AND RECONFIGURING THE WESTBOUND BARRACKS ROAD APPROACH TO THE INTERSECTION BY ADDING A SECOND LEFT TURN LANE. THE PROJECT ALSO FEATURES A NEW CAT (CHARLOTTESVILLE AREA TRANSIT) BUS SHELTER AT HESSIAN ROAD, NEW ADA COMPLIANT HANDICAP RAMPS AND TRAFFIC SIGNAL IMPROVEMENTS.
4. LANE CLOSURES AND SINGLE LANE CLOSURES ON A TWO-LANE FACILITY (FLAGGING OPERATION) ARE ONLY ALLOWED BETWEEN 9:00AM AND 3:30PM MON-FRI. LANE CLOSURES ARE NOT PERMITTED ANY OTHER DAYS. NIGHT TIME AND WEEKEND OPERATION ARE NOT PERMITTED UNLESS OTHERWISE APPROVED IN ADVANCE BY THE CITY. SUCH REQUESTS SHALL BE MADE A MINIMUM OF 2 WEEKS PRIOR TO WORK DURING THESE TIMES.
5. TRAFFIC ALONG THESE ROADS CONSISTS OF COMMUTERS, LOCAL RESIDENTS, TRUCKS, AND BUSES.
6. THE EXISTING SPEED LIMIT FOR N. EMMET STREET (ROUTE 29) IS 40 MPH. THE EXISTING SPEED LIMIT FOR BARRACKS ROAD (ROUTE 654) IS 25 MPH.
7. A CITY OF CHARLOTTESVILLE STREET/SIDEWALK CLOSURE PERMIT SHALL BE OBTAINED BY THE CONTRACTOR BEFORE WORK BEGINS. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS OF THE STREET/SIDEWALK CLOSURE PERMIT THROUGHOUT THE DURATION OF THE PROJECT.

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

1. LANE CLOSURES, SHOULDER CLOSURES, AND FLAGGING OPERATIONS ARE ANTICIPATED FOR THIS PROJECT AND SHALL BE PROVIDED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION, (SEPTEMBER 1, 2019 REVISION). THE FOLLOWING TEMPORARY TRAFFIC MEASURES SHALL BE USED:
   - 1.1. TTC-16.2 - OUTSIDE LANE CLOSURE OPERATION ON A FOUR-LANE ROADWAY
   - 1.2. TTC-23.2 - LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS
   - 1.3. TTC-29.2 - TURN LANE CLOSURE OPERATION
   - 1.4. TTC-35.1 - SIDEWALK CLOSURE AND BYPASS SIDEWALK OPERATION
   - 1.5. TTC-53.0 - SIGINING FOR PROJECT LIMITS
2. ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
3. ALL DIMENSIONS SHOWN ON THIS PLAN FOR SIGN PLACEMENT SHALL BE PROVIDED TO THE MAXIMUM EXTENT PRACTICAL. SHOULD ADJUSTMENTS BE REQUIRED, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO SIGN PLACEMENT.
4. NEGATIVE IMPACTS TO THE TRAVELING PUBLIC SHALL BE MINIMIZED IN EVERY WAY POSSIBLE. AS SUCH, DURING PEAK TIMES AND HOLIDAYS, ALL LANES OF TRAFFIC SHALL BE MAINTAINED IN BOTH DIRECTIONS. SEE THE "GENERAL NOTES" PORTION OF THIS PLAN SHEET FOR MORE INFORMATION.

PUBLIC COMMUNICATION PLAN:

1. IF ANY MAJOR TRAFFIC CHANGES ARE TO TAKE PLACE (LANE CLOSURES, ETC.), THE CONTRACTOR SHALL ENSURE THAT THE LOCAL NEWSPAPERS AND RADIO STATIONS ARE INFORMED TWO WEEKS IN ADVANCE OF THE CHANGE. IT IS ALSO REQUIRED TO USE PORTABLE CHANGEABLE MESSAGE BOARD SIGNS 72 HOURS IN ADVANCE TO NOTIFY THE TRAVELING PUBLIC OR ANY MAJOR TRAFFIC CHANGES. MESSAGING SHALL BE IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL.

TRANSPORTATION OPERATION PLAN:

1. THE CONTRACTOR MUST ADVISE EMERGENCY COMMUNICATIONS AT 434-970-3280 OF THE CITY OF CHARLOTTESVILLE 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 NUMBERS:
   FIRE & EMS: 434-970-3240
   CITY POLICE: 434-970-3280
   CITY CHIEF: 434-970-3289
   STATE POLICE: 434-293-3223
   PROJECT PERSONNEL:
   - CITY PROJECT MANAGER: KYLE KLING, 434-970-3394
   - ENGINEER CONTACT: BRIAN COPELAND, TIMMONS GROUP: 804-200-6525
   - INSPECTOR: TBD

   CITY OF CHARLOTTESVILLE, NEIGHBORHOOD DEVELOPMENT SERVICES: 434-970-3182
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 SHUT DOWN THE WORK 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 434-970-3394 TO DETERMINE ANY NEEDED 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.

TMP GENERAL NOTES:

UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PLAN AND PROSECUTE THE WORK IN ACCORDANCE WITH THE FOLLOWING GENERAL NOTES:

1. THE CONTRACTOR SHALL ADHERE TO THE CURRENT VIRGINIA WORK AREA PROTECTION MANUAL AND THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES FOR ALL CONSTRUCTION SIGNING, TEMPORARY SIGNING, AND CONSTRUCTION TRAFFIC CONTROL DEVICES AND AS DIRECTED BY THE ENGINEER. MINIMUM LANE WIDTHS SHALL BE 11'. DURING PAVEMENT TIE-INS AND TEMPORARY MINOR SHOULDER ENCROACHMENTS, LANE WIDTH OF 10' MAY BE USED FOR INTERMEDIATE-TERM OPERATIONS SUCH AS MILLING/PAVING OPERATIONS WHERE THE RESTRICTION IS LIMITED TO THE AREAS WHERE THE WORK ACTIVITIES ARE OCCURRING BY MOVING THE CHANNELIZING DEVICES OUT AS WORK PROGRESSES AND THEN BACK ONCE THE WORK ACTIVITY HAS PAST PER SECTION 6G.08 LINE 06 IN THE VDOT WAPM.
2. ALL PRIVATE AND COMMERCIAL ENTRANCES SHALL BE MAINTAINED DURING CONSTRUCTION.
3. LANE ARROWS DEPICTED ON SEQUENCE OF CONSTRUCTION/MAINTENANCE OF CONSTRUCTION PLANS ARE SHOWN FOR PLAN CLARITY.
4. ALL AREAS EXCAVATED BELOW EXISTING PAVEMENT SURFACES AND WITHIN THE CLEAR ZONE OF ANY PUBLIC ROADWAY SHALL AT THE CONCLUSION OF EACH WORK DAY BE BACK FILLED WITH 6:1 WEDGE SO AS TO FORM A TRAVERSABLE SLOPE FOR THE SAFETY AND PROTECTION OF TRAFFIC.
5. UTILITY INSTALLATION TRENCHES SHALL BE BACKFILLED AS SOON AS IS PRACTICABLE OR AS DIRECTED BY THE ENGINEER.
6. FOR SINGLE LANE FLAGGING OPERATIONS, TRAFFIC SHALL NOT BE STOPPED FOR LONGER THAN 5 MINUTES.
7. FOR PARTIAL ROAD CLOSURES OR LANE CLOSURES, THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING TIME OF YEAR RESTRICTIONS:
   - A. JANUARY 1: FROM NOON ON THE PRECEDING DAY UNTIL NOON ON THE FOLLOWING DAY, EXCEPT AS INDICATED BELOW FOR HOLIDAYS OCCURRING ON A FRIDAY/SATURDAY OR SUNDAY/MONDAY
   - B. EASTER: AS INDICATED BELOW FOR HOLIDAYS OCCURRING ON A SUNDAY
   - C. MEMORIAL DAY: AS INDICATED BELOW FOR HOLIDAYS OCCURRING ON A MONDAY
   - D. JULY 4: FROM NOON ON THE PRECEDING DAY UNTIL NOON ON THE FOLLOWING DAY, EXCEPT AS INDICATED BELOW FOR HOLIDAYS OCCURRING ON A FRIDAY/SATURDAY OR SUNDAY/MONDAY
   - E. LABOR DAY: AS INDICATED BELOW FOR HOLIDAYS OCCURRING ON A MONDAY
   - F. THANKSGIVING DAY: FROM NOON ON THE WEDNESDAY PRECEDING THANKSGIVING DAY UNTIL NOON ON THE MONDAY FOLLOWING THANKSGIVING DAY
   - G. CHRISTMAS DAY: FROM NOON ON THE PRECEDING DAY UNTIL NOON ON THE FOLLOWING DAY, EXCEPT AS INDICATED BELOW FOR THE HOLIDAYS OCCURRING ON A FRIDAY/SATURDAY OR SUNDAY/MONDAY

     IF THE HOLIDAY OCCURS ON A FRIDAY OR SATURDAY: FROM NOON ON THE PRECEDING THURSDAY TO NOON ON THE FOLLOWING MONDAY

     IF THE HOLIDAY OCCURS ON A SUNDAY OR MONDAY: FROM NOON ON THE PRECEDING FRIDAY TO NOON ON THE FOLLOWING TUESDAY
8. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO OVERHEAD UTILITIES. THE CONTRACTOR MUST ENSURE EQUIPMENT SHALL NOT DAMAGE ANY OVERHEAD UTILITIES PRIOR, DURING, AND AFTER CONSTRUCTION.
9. CONTRACTOR TO CALL REGIONAL TRAFFIC OPERATIONS CENTER (TOC): 804-796-4520 AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF WORK, IN ORDER TO LOCATE ITS FACILITIES.
10. CONTRACTOR TO CONTACT THE CITY BEFORE ANY SIGNAL WORK IS TO COMMENCE. THE CITY SHALL DETERMINE SALVAGE OF EXISTING SIGNAL MATERIALS BEFORE DISPOSAL.
11. CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS OF PENDING CLOSURE, DURATION OF CLOSURE, AND RECOMMENDED INGRESS/EGRESS FROM BARRACKS ROAD.

SUGGESTED SEQUENCE OF CONSTRUCTION:

THE PURPOSE OF THIS TRANSPORTATION MANAGEMENT PLAN (TMP) IS TO PROVIDE THE MAXIMUM DEGREE OF FLEXIBILITY TO THE CONTRACTOR TO CONSTRUCT DIFFERENT COMPONENTS OF THE PROJECT IN AN ORDER THE BEST SUITS THE CONTRACTOR'S OPERATIONS/SCHEDULE. THE PURPOSE OF THIS TMP AND SEQUENCE OF CONSTRUCTION IS NOT TO PRESCRIBE A SPECIFIC ORDER OF OPERATIONS TO THE CONTRACTOR, HOWEVER DOES PRESCRIBE THE TYPE/LAYOUT OF TEMPORARY TRAFFIC CONTROL DEVICES (TTC'S) THAT MUST BE UTILIZED, AT A MINIMUM, WITHIN THE ESTABLISHED WORK AREAS OF EACH "WORK ZONE SETUP".

THE PROJECT HAS BEEN SET UP WITH TWO (2) PHASES OF WORK. THE FIRST PHASE OF WORK (PHASE 1) IS TO CONSTRUCT ALL IMPROVEMENTS ALONG BARRACKS ROAD DURING THE TIME NEW TRAFFIC SIGNAL EQUIPMENT IS BEING FABRICATED/SUPPLIED. THE SECOND PHASE OF WORK (PHASE 2) ENCOMPASSES WORK WITHIN THE BARRACKS/EMMET INTERSECTION, INCLUDING THE INSTALLATION OF NEW TRAFFIC SIGNAL EQUIPMENT. EACH PHASE OF WORK CONTAINS SEVERAL SUB-STAGES OF WORK (1A, 1B, 1C, OR 2A, 2B, ETC....), WHICH ARE NAMED "WORK ZONE SETUPS". WHENEVER WORK IS BEING DONE WITHIN THE AREAS IDENTIFIED IN EACH "SETUP", THE TRAFFIC CONTROL DEVICES (TTC'S) SHOWN IN THE PLAN MUST BE UTILIZED. THESE PLANS ARE NOT INTENDED TO BE 100% INCLUSIVE. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL (LATEST EDITION) FOR ALL TRAFFIC CONTROL ON THE PROJECT. THE PLANS INCLUDED IN THIS ASSEMBLY ARE INTENDED TO SERVE AS A TTC INSTALLATION GUIDE FOR WORK BEING DONE ON SPECIFIC AREAS OF THE PROJECT. THE DIFFERENT SUB-STAGES (WORK ZONE SETUPS) WITHIN EACH PHASE MAY BE IMPLEMENTED IN ANY ORDER, AND MAY BE COMBINED AS NEEDED TO PERFORM SPECIFIC OPERATIONS OR SEQUENCE OF ACTIVITIES. DEVIATION FROM THESE PLANS MUST BE SUBMITTED NO LESS THAN 2 WEEKS PRIOR TO IMPLEMENTATION AND APPROVED BY THE CITY.

THE FOLLOWING CONDITIONS MUST BE MET WHILE MAINTAINING TRAFFIC ON THIS PROJECT:
1) COMPLIANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL (LATEST EDITION)
2) COMPLIANCE WITH ALL GENERAL NOTES ON THIS SHEET.
3) CONTRACTOR SHALL MAINTAIN ADA COMPLIANT BICYCLE AND PEDESTRIAN ROUTES IN ALL DIRECTIONS THROUGH THE WORK ZONE AT ALL TIMES, INCLUDING NON-WORKING HOURS.
4) CONTRACTOR SHALL SUPPLY, AND HAVE READILY AVAILABLE ONSITE, A PORTABLE HANDICAP RAMP TO BE PROVIDED AS REQUESTED BY THE PUBLIC DURING THE WORK SUCH THAT ADA ACCESSIBILITY IS CONTINUOUSLY PROVIDED DURING THE PROJECT.

60% PLANS

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DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: N/A

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
TRANSPORTATION MANAGEMENT PLAN NOTES & DETAILS

JOB NO.: 43569
SHEET NO.: 1E(1)

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Project #: NHPP-5104(275)
UPC: 111796

PHASE 1 - WORK ZONE SET-UP 1A

LEGEND
- WORK AREA
- GROUP II CHANNELIZING DEVICES
- TYPE III BARRICADE
- WORK ZONE SIGNS
- TRAFFIC FLOW ARROW
- FLAGGER STATION
- PORTABLE HANDICAP RAMP

W20-4 36"x36" — ONE LANE ROAD AHEAD
W3-4 36"x36" — BE PREPARED TO STOP
W20-7 36"x36"
R9-9 30"x18" — SIDEWALK CLOSED
CONTRACTOR TO USE 10' DEVICE SPACING TO BE USED IN PEDESTRIAN TRANSITION AREA
SHADOW VEHICLE REQ'D.
100'
125' SHIFTING TAPER 20' DEVICE SPACING
25' BUFFER
APPROX. 250' WORKZONE 40' DEVICE SPACING
50' TAPER 10' DEVICE SPACING
160' BUFFER 40' DEVICE SPACING
50' TAPER 10' DEVICE SPACING
350'
MATCHLINE STA. 116+25 - THIS SHEET
MATCHLINE STA. 116+25 - THIS SHEET
120
125
NAD 83
SCALE 1"=50'
0 50' 100'

BARRACKS ROAD S.R. 654 (VARIABLE WIDTH R/W)
BLUE RIDGE ROAD (VARIABLE WIDTH R/W)
HESSIAN ROAD (VARIABLE WIDTH R/W)
MEADOWBROOK ROAD (VARIABLE WIDTH R/W)
NORTH EMMET ST. ROUTE 29 (VARIABLE WIDTH R/W)
HILLTOP ROAD (VARIABLE WIDTH R/W)
BUCKINGHAM ROAD (VARIABLE WIDTH R/W)
RUGBY ROAD (VARIABLE WIDTH R/W)
HOWARD DRIVE (VARIABLE WIDTH R/W)

NOTE: ALL TTC SIGNAGE SHOWN ARE IN ADDITION TO 'WORK ZONE AHEAD' AND 'END WORK ZONE' SIGNAGE INSTALLED PRIOR TO WORK ON THE PROJECT IN ACCORDANCE WITH TTC-53.0.

PEDESTRIAN ROUTE MAY BE USED FOR EQUIPMENT STAGING PURPOSES PROVIDED ACCESS IS NOT IMPEDED FOR LONGER THAN FIVE MINUTES ONCE AN ACTIVE USER IS OBSERVED. PORTABLE HANDICAP RAMPS SHALL BE PLACED AT THE BEGINNING (END OF DESIGNATED PEDESTRIAN ROUTES AS NEEDED.)

CONTRACTOR SHALL KEEP PEDESTRIAN ROUTES OPEN AT ALL TIMES. FLAGGER SERVICE SHALL ENSURE FLAGGING OPERATIONS DO NOT AT ANY TIME ALLOW TRAFFIC TO BLOCK THE INTERSECTION OF BARRACKS ROAD AND N. EMMET STREET.

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DATE 06/18/2021
DRAWN BY KJH
DESIGNED BY KJH
CHECKED BY BTC
SCALE 1"=50'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
TRANSPORTATION MANAGEMENT PLAN - PHASE 1A

JOB NO. 43569
SHEET NO. 1E(2)

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Project #: NHPP-5104(275)
UPC: 111796

PHASE 1 - WORK ZONE SET-UP 1B

LEGEND
- WORK AREA
- GROUP II CHANNELIZING DEVICES
- TYPE III BARRICADE
- WORK ZONE SIGNS
- TRAFFIC FLOW ARROW
- FLAGGER STATION
- PORTABLE HANDICAP RAMP

W20-4 36"x36" — ONE LANE ROAD AHEAD
W3-4 36"x36" — BE PREPARED TO STOP
W20-7 36"x36"
R9-9 30"x18" — SIDEWALK CLOSED
100'
CONTRACTOR TO USE 10' DEVICE SPACING TO BE USED IN PEDESTRIAN TRANSITION AREA
125' SHIFTING TAPER 20' DEVICE SPACING
190' BUFFER ZONE 40' DEVICE SPACING
APPROX. 340' WORKZONE 40' DEVICE SPACING
160' BUFFER 40' DEVICE SPACING
50' TAPER 10' DEVICE SPACING
350'
MATCHLINE STA. 116+25 - THIS SHEET
SCALE 1"=50'
0 50' 100'
NAD 83

NOTE: ALL TTC SIGNAGE SHOWN ARE IN ADDITION TO 'WORK ZONE AHEAD' AND 'END WORK ZONE' SIGNAGE INSTALLED PRIOR TO WORK ON THE PROJECT IN ACCORDANCE WITH TTC-53.0.

PEDESTRIAN ROUTE MAY BE USED FOR EQUIPMENT STAGING PURPOSES PROVIDED ACCESS IS NOT IMPEDED FOR LONGER THAN FIVE MINUTES ONCE AN ACTIVE USER IS OBSERVED. PORTABLE HANDICAP RAMPS SHALL BE PLACED AT THE BEGINNING (END OF DESIGNATED PEDESTRIAN ROUTES AS NEEDED.)

CONTRACTOR SHALL KEEP PEDESTRIAN ROUTES OPEN AT ALL TIMES. FLAGGER SERVICE SHALL ENSURE FLAGGING OPERATIONS DO NOT AT ANY TIME ALLOW TRAFFIC TO BLOCK THE INTERSECTION OF BARRACKS ROAD AND N. EMMET STREET.

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3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE 06/18/2021
DRAWN BY KJH
DESIGNED BY KJH
CHECKED BY BTC
SCALE 1"=50'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
TRANSPORTATION MANAGEMENT PLAN - PHASE 1B

JOB NO. 43569
SHEET NO. 1E(3)

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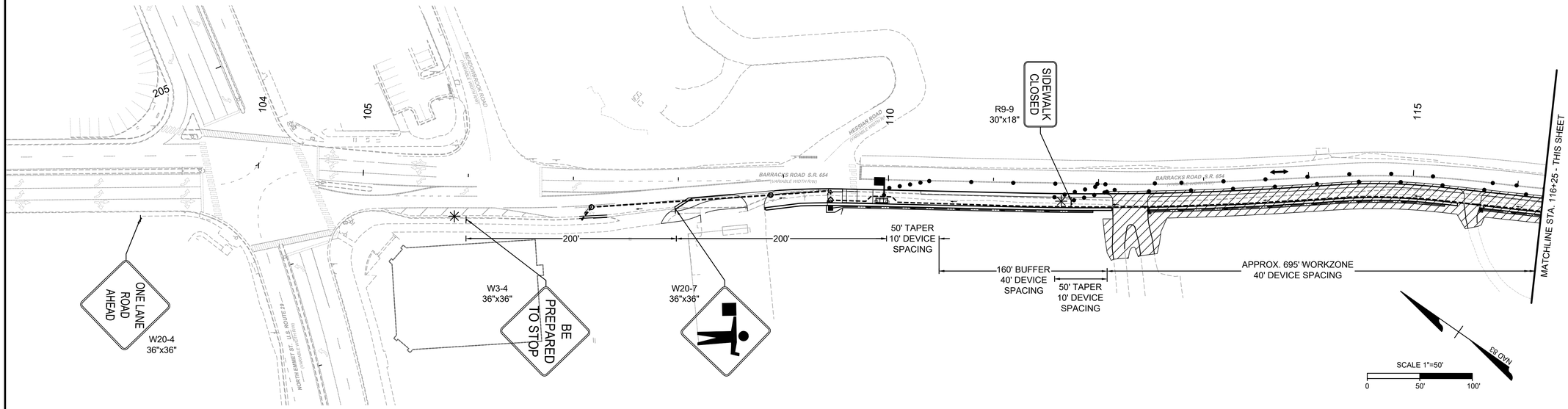
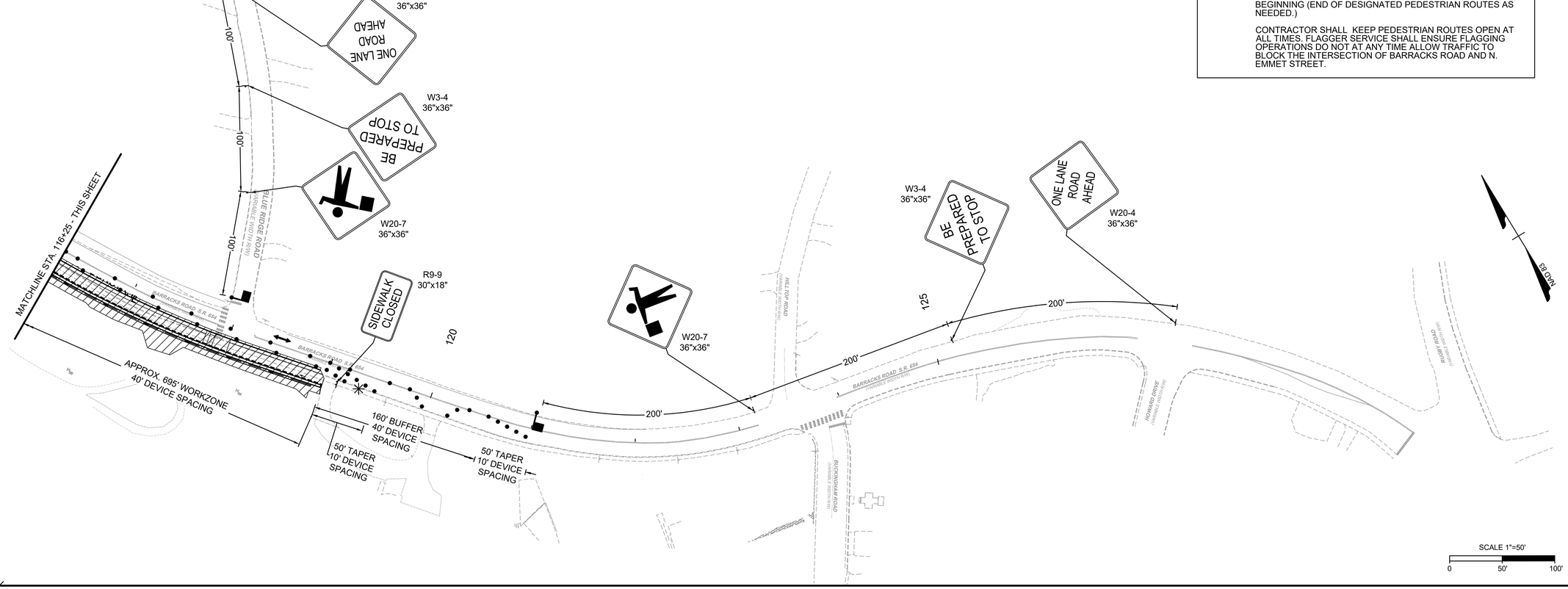
Project #: NHPP-5104(275)
UPC: 111796

PHASE 1 - WORK ZONE SET-UP 1C



LEGEND

- WORK AREA
- GROUP II CHANNELIZING DEVICES
- TYPE III BARRICADE
- WORK ZONE SIGNS
- TRAFFIC FLOW ARROW
- FLAGGER STATION
- PORTABLE HANDICAP RAMP



NOTE: ALL TTC SIGNAGE SHOWN ARE IN ADDITION TO 'WORK ZONE AHEAD' AND 'END WORK ZONE' SIGNAGE INSTALLED PRIOR TO WORK ON THE PROJECT IN ACCORDANCE WITH TTC-53.0.

PEDESTRIAN ROUTE MAY BE USED FOR EQUIPMENT STAGING PURPOSES PROVIDED ACCESS IS NOT IMPEDED FOR LONGER THAN FIVE MINUTES ONCE AN ACTIVE USER IS OBSERVED. PORTABLE HANDICAP RAMPS SHALL BE PLACED AT THE BEGINNING (END OF DESIGNATED PEDESTRIAN ROUTES AS NEEDED.)

CONTRACTOR SHALL KEEP PEDESTRIAN ROUTES OPEN AT ALL TIMES. FLAGGER SERVICE SHALL ENSURE FLAGGING OPERATIONS DO NOT AT ANY TIME ALLOW TRAFFIC TO BLOCK THE INTERSECTION OF BARRACKS ROAD AND N. EMMET STREET.

60% PLANS

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DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=50'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
TRANSPORTATION MANAGEMENT PLAN - PHASE 1C

JOB NO. 43569
SHEET NO. 1E(4)

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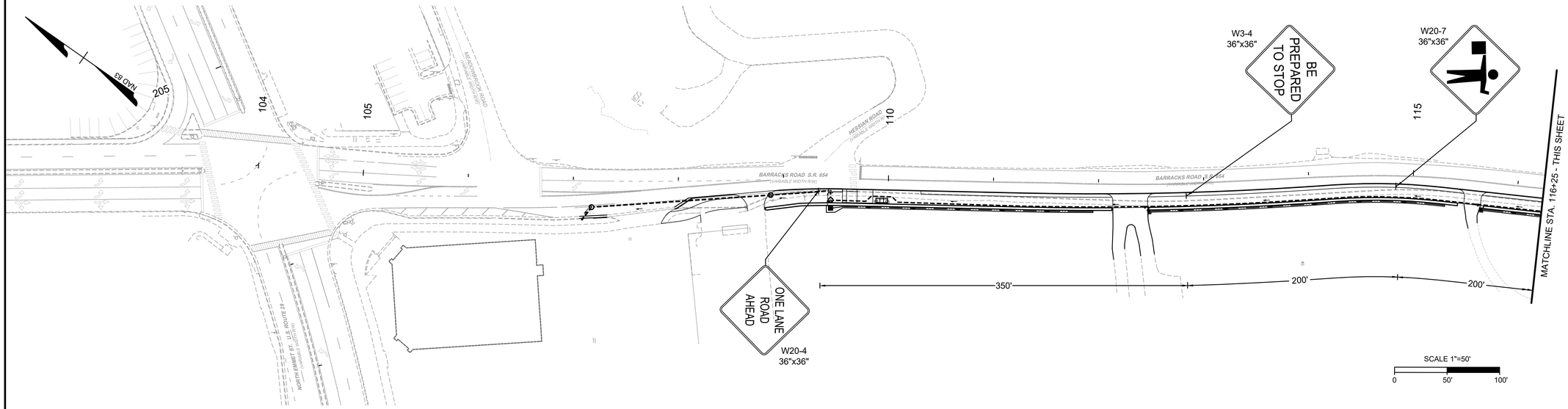
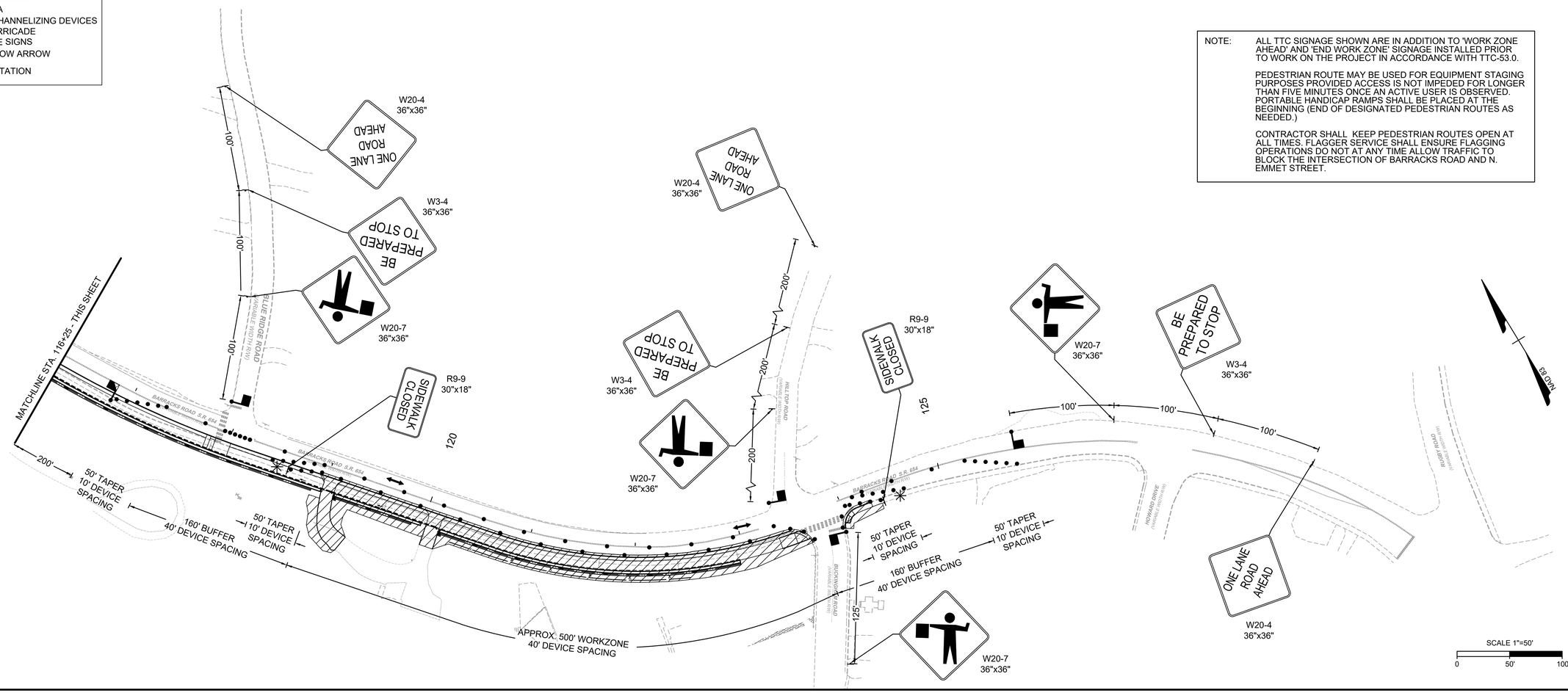
Project #: NHPP-5104(275)
UPC: 111796

PHASE 1 - WORK ZONE SET-UP 1D



LEGEND

- WORK AREA
- GROUP II CHANNELIZING DEVICES
- TYPE III BARRICADE
- WORK ZONE SIGNS
- TRAFFIC FLOW ARROW
- FLAGGER STATION



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60% PLANS

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2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=50'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
TRANSPORTATION MANAGEMENT PLAN - PHASE 1D

JOB NO. 43569
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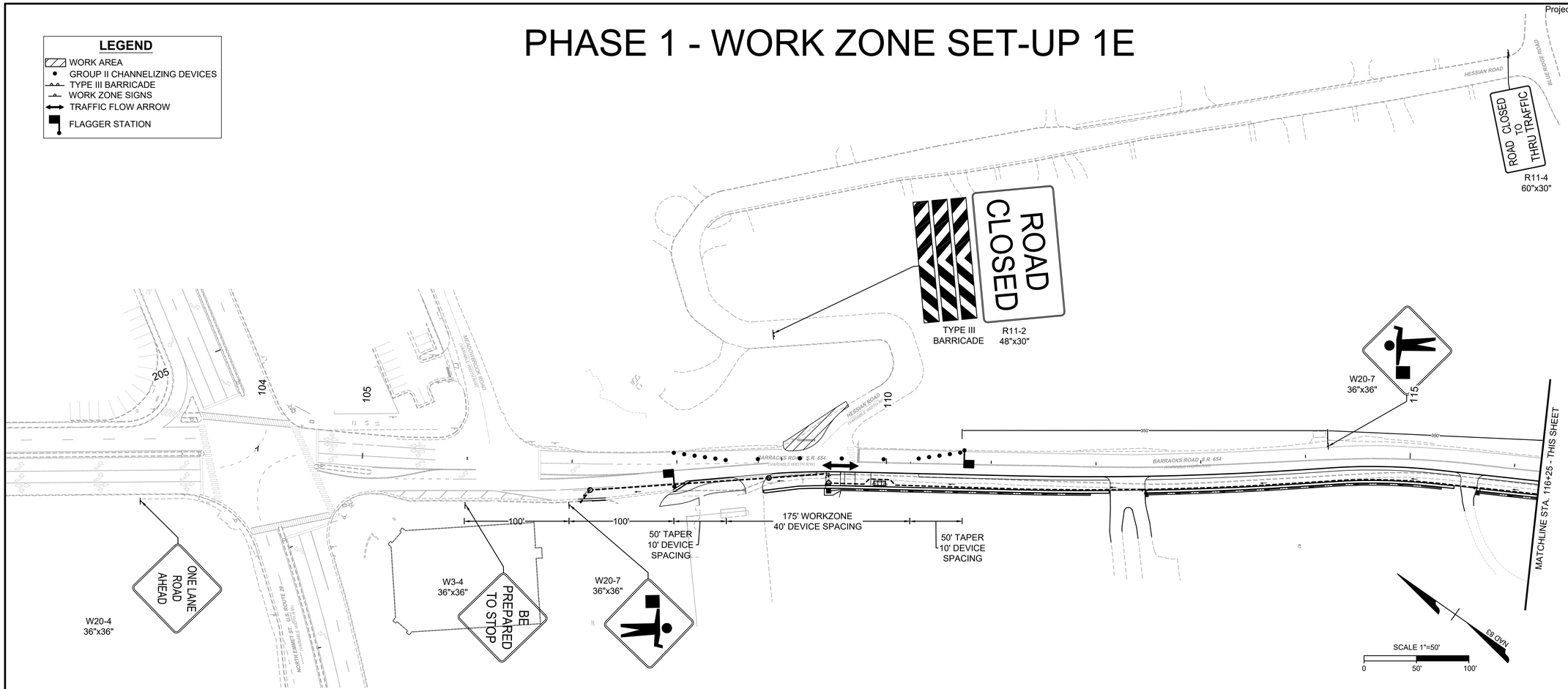
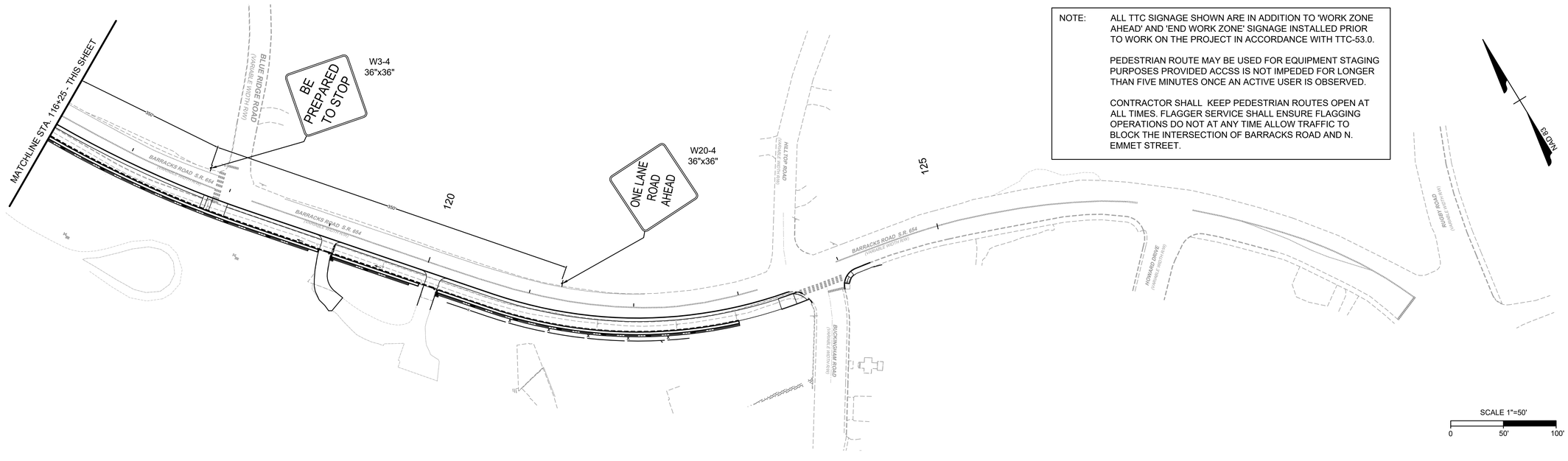
PHASE 1 - WORK ZONE SET-UP 1E

Project #: NHPP-5104(275)
UPC: 111796

LEGEND
- WORK AREA
- GROUP II CHANNELIZING DEVICES
- TYPE III BARRICADE
- WORK ZONE SIGNS
- TRAFFIC FLOW ARROW
- FLAGGER STATION





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60% PLANS

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DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=50'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
TRANSPORTATION MANAGEMENT PLAN - PHASE 1E

JOB NO. 43569
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Project #: NHPP-5104(275)
UPC: 111796

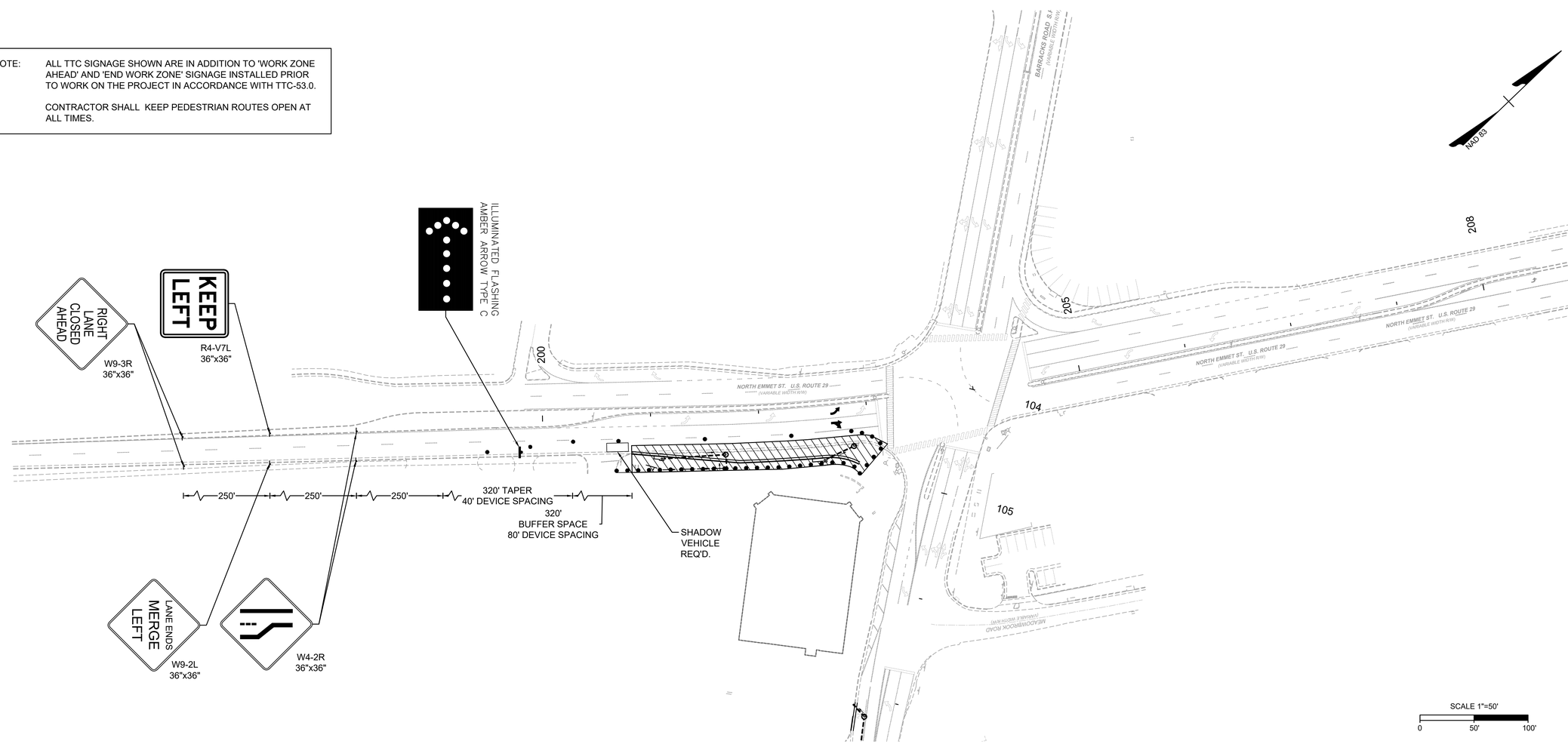
PHASE 2 - WORK ZONE SET-UP 2A

LEGEND

- WORK AREA
- GROUP II CHANNELIZING DEVICES
- TYPE III BARRICADE
- WORK ZONE SIGNS
- TRAFFIC FLOW ARROW
- FLAGGER STATION

NOTE: ALL TTC SIGNAGE SHOWN ARE IN ADDITION TO 'WORK ZONE AHEAD' AND 'END WORK ZONE' SIGNAGE INSTALLED PRIOR TO WORK ON THE PROJECT IN ACCORDANCE WITH TTC-53.0.

CONTRACTOR SHALL KEEP PEDESTRIAN ROUTES OPEN AT ALL TIMES.



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DATE 06/18/2021
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DESIGNED BY KJH
CHECKED BY BTC
SCALE 1"=50'

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TRANSPORTATION MANAGEMENT PLAN - PHASE 2A

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Project #: NHPP-5104(275)
UPC: 111796

PHASE 2 - WORK ZONE SET-UP 2B

60% PLANS

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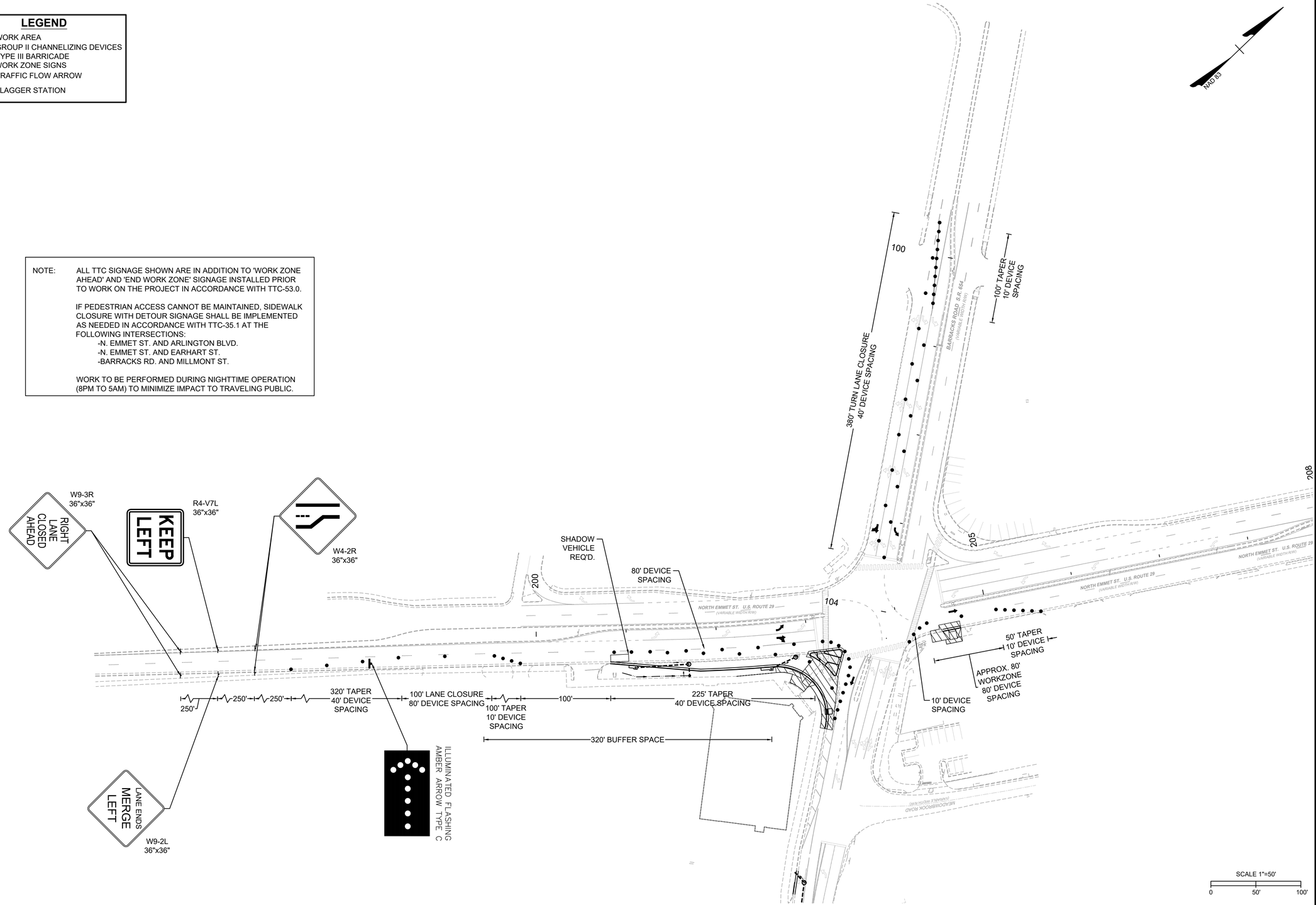
LEGEND

- WORK AREA
- GROUP II CHANNELIZING DEVICES
- TYPE III BARRICADE
- WORK ZONE SIGNS
- TRAFFIC FLOW ARROW
- FLAGGER STATION

NOTE: ALL TTC SIGNAGE SHOWN ARE IN ADDITION TO 'WORK ZONE AHEAD' AND 'END WORK ZONE' SIGNAGE INSTALLED PRIOR TO WORK ON THE PROJECT IN ACCORDANCE WITH TTC-53.0.

IF PEDESTRIAN ACCESS CANNOT BE MAINTAINED, SIDEWALK CLOSURE WITH DETOUR SIGNAGE SHALL BE IMPLEMENTED AS NEEDED IN ACCORDANCE WITH TTC-35.1 AT THE FOLLOWING INTERSECTIONS:
- -N. EMMET ST. AND ARLINGTON BLVD.
- -N. EMMET ST. AND EARHART ST.
- -BARRACKS RD. AND MILLMONT ST.

WORK TO BE PERFORMED DURING NIGHTTIME OPERATION (8PM TO 5AM) TO MINIMIZE IMPACT TO TRAVELING PUBLIC.



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DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=50'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
TRANSPORTATION MANAGEMENT PLAN - PHASE 2B

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Project #: NHPP-5104(275)
UPC: 111796

PHASE 2 - WORK ZONE SET-UP 2C

LEGEND

- WORK AREA
- GROUP II CHANNELIZING DEVICES
- TYPE III BARRICADE
- WORK ZONE SIGNS
- TRAFFIC FLOW ARROW
- FLAGGER STATION

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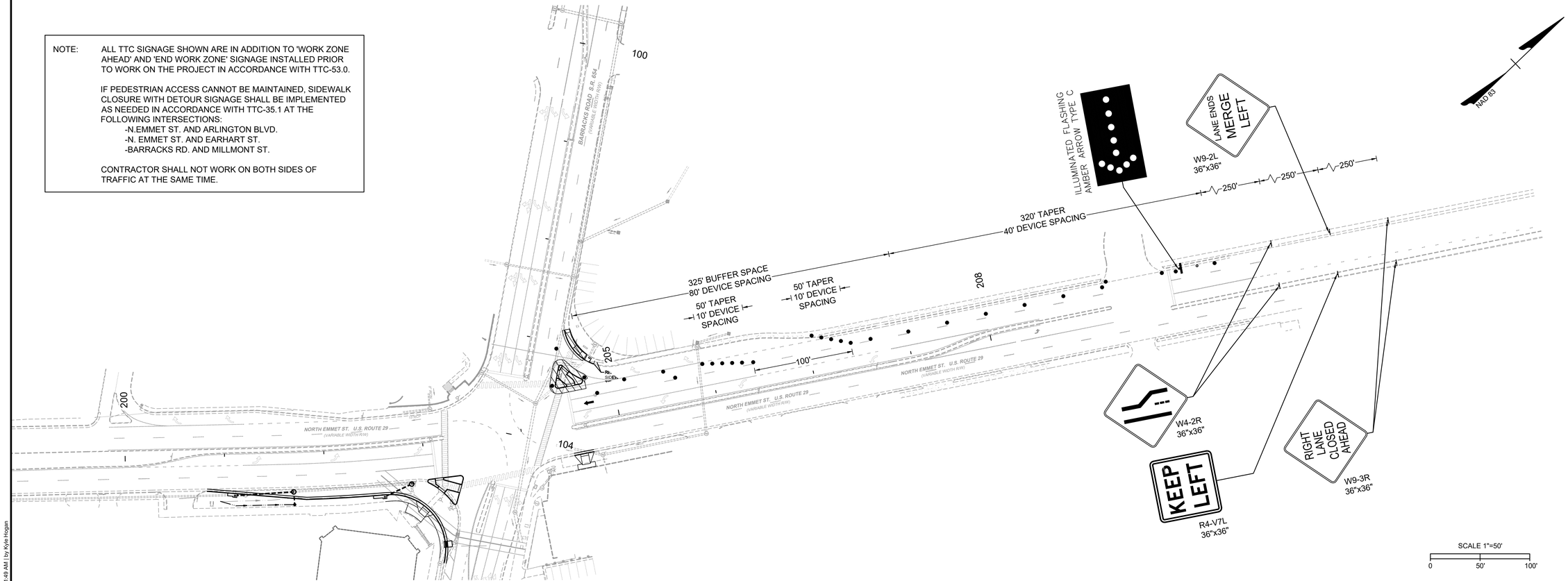
IF PEDESTRIAN ACCESS CANNOT BE MAINTAINED, SIDEWALK CLOSURE WITH DETOUR SIGNAGE SHALL BE IMPLEMENTED AS NEEDED IN ACCORDANCE WITH TTC-35.1 AT THE FOLLOWING INTERSECTIONS:

-N.EMMET ST. AND ARLINGTON BLVD.
-N. EMMET ST. AND EARHART ST.
-BARRACKS RD. AND MILLMONT ST.

CONTRACTOR SHALL NOT WORK ON BOTH SIDES OF TRAFFIC AT THE SAME TIME.



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TRANSPORTATION MANAGEMENT PLAN - PHASE 2C

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Project #: NHPP-5104(275)
UPC: 111796

PHASE 2 - WORK ZONE SET-UP 2D

LEGEND

- WORK AREA
- GROUP II CHANNELIZING DEVICES
- TYPE III BARRICADE
- WORK ZONE SIGNS
- TRAFFIC FLOW ARROW
- FLAGGER STATION

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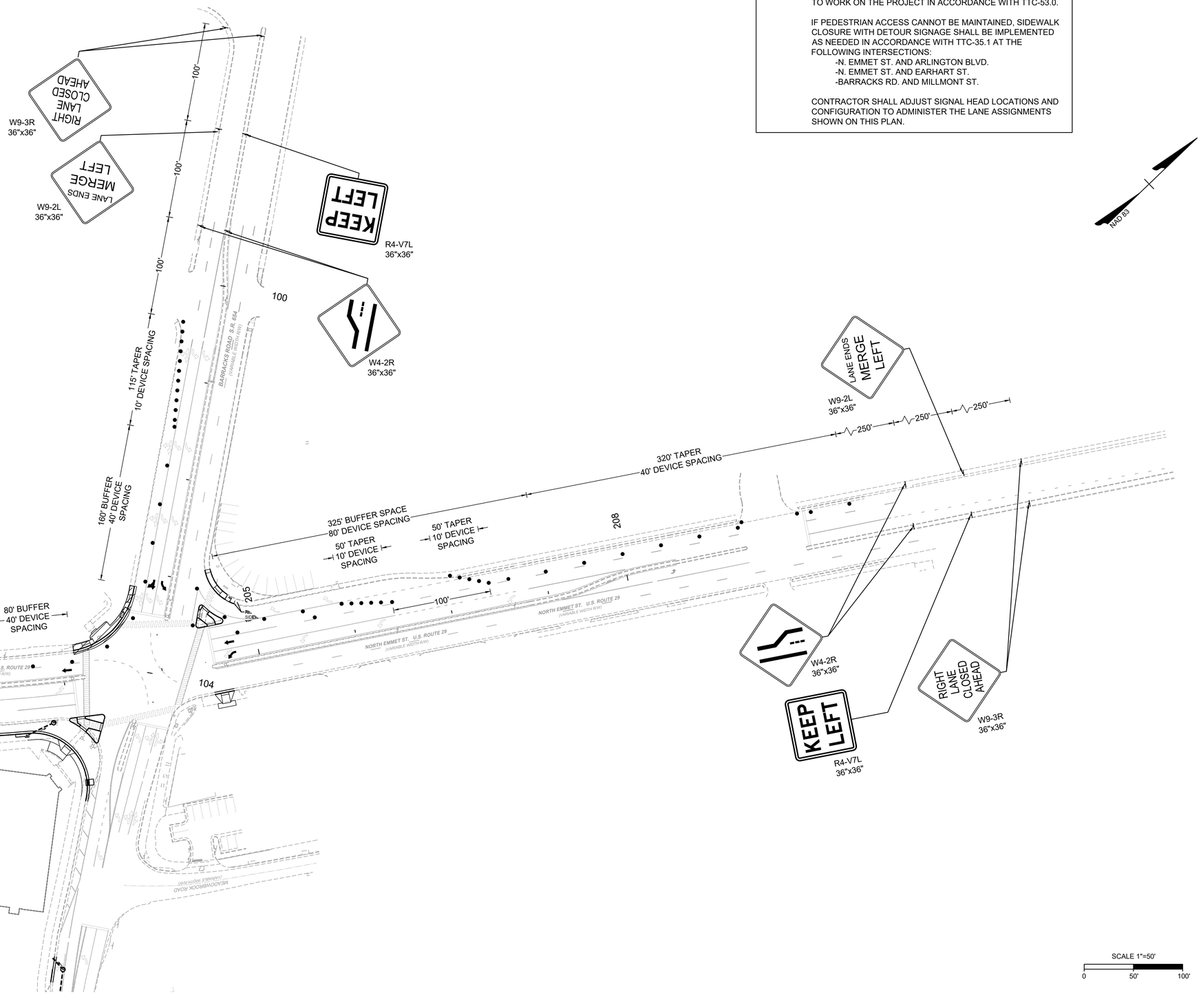
- -N. EMMET ST. AND EARHART ST.
- -BARRACKS RD. AND MILLMONT ST.

CONTRACTOR SHALL ADJUST SIGNAL HEAD LOCATIONS AND CONFIGURATION TO ADMINISTER THE LANE ASSIGNMENTS SHOWN ON THIS PLAN.



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PHASE 2 - WORK ZONE SET-UP 2E

Project #: NHPP-5104(275)
UPC: 111796

LEGEND

- WORK AREA
- GROUP II CHANNELIZING DEVICES
- TYPE III BARRICADE
- WORK ZONE SIGNS
- TRAFFIC FLOW ARROW
- FLAGGER STATION

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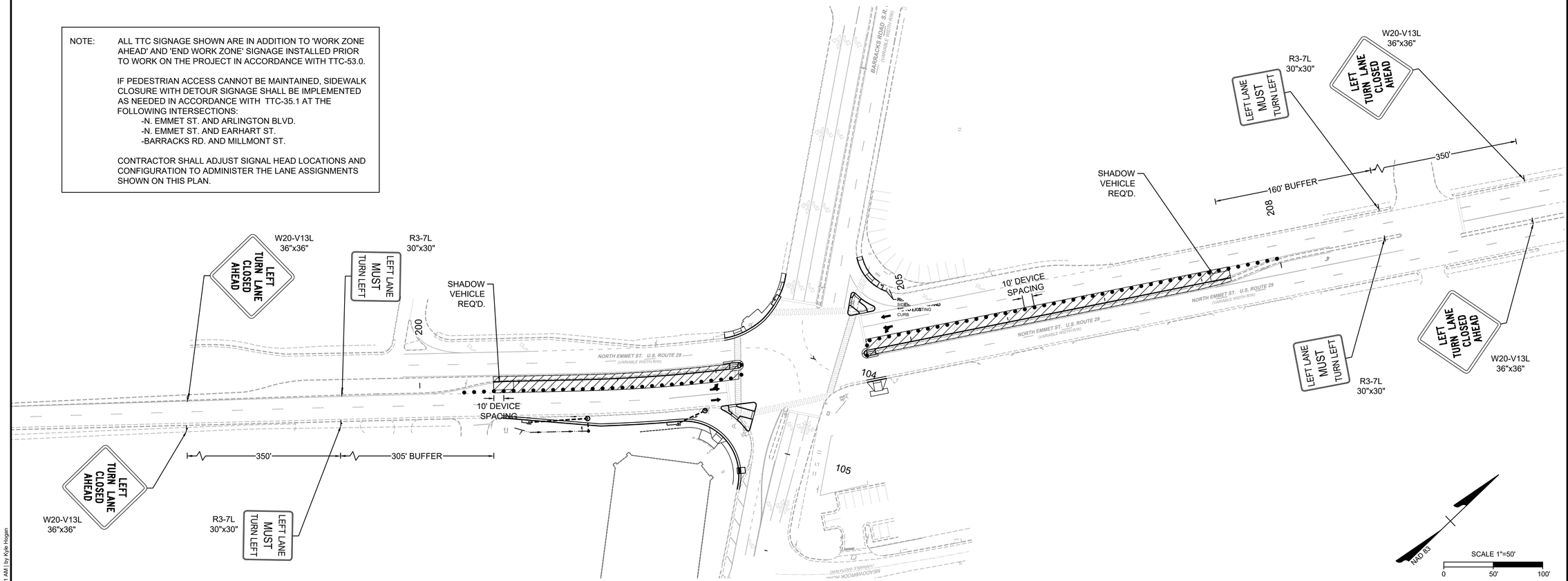

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TIMMONS GROUP

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BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
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SHEET NO. 1E(11)

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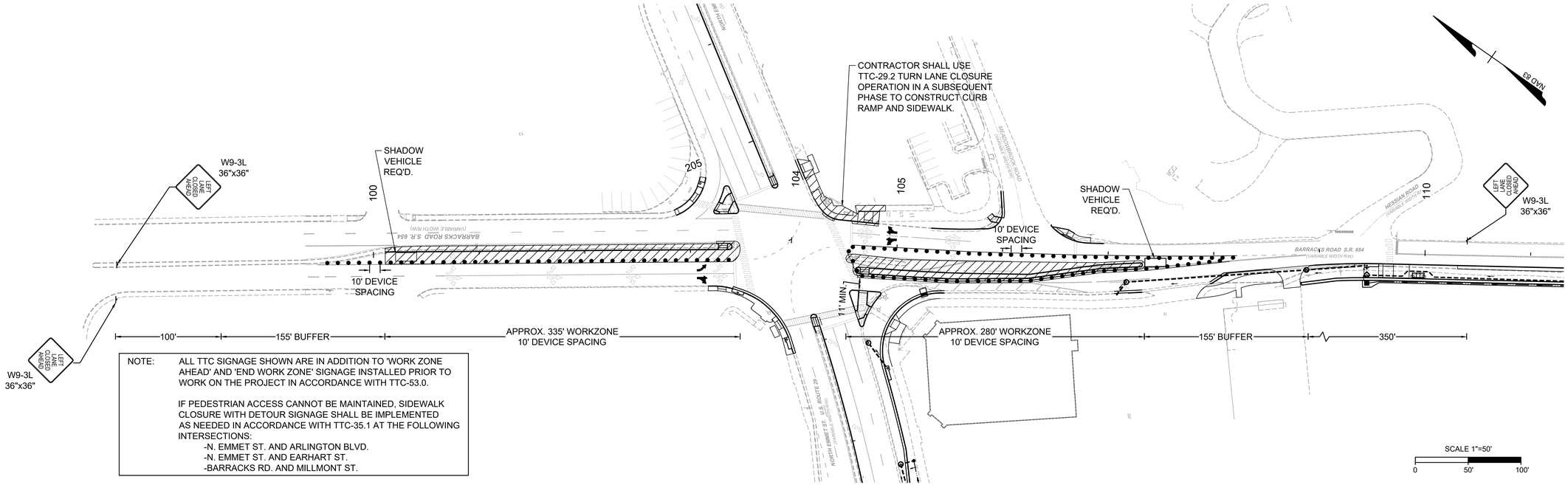
Project #: NHPP-5104(275)
UPC: 111796

PHASE I - WORK ZONE SET-UP 2F

LEGEND

- WORK AREA
- GROUP II CHANNELIZING DEVICES
- TYPE III BARRICADE
- WORK ZONE SIGNS
- TRAFFIC FLOW ARROW
- FLAGGER STATION



NOTE: ALL TTC SIGNAGE SHOWN ARE IN ADDITION TO 'WORK ZONE AHEAD' AND 'END WORK ZONE' SIGNAGE INSTALLED PRIOR TO WORK ON THE PROJECT IN ACCORDANCE WITH TTC-53.0.

IF PEDESTRIAN ACCESS CANNOT BE MAINTAINED, SIDEWALK CLOSURE WITH DETOUR SIGNAGE SHALL BE IMPLEMENTED AS NEEDED IN ACCORDANCE WITH TTC-35.1 AT THE FOLLOWING INTERSECTIONS:

- -N. EMMET ST. AND ARLINGTON BLVD.
- -N. EMMET ST. AND EARHART ST.
- -BARRACKS RD. AND MILLMONT ST.

60% PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

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DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE 06/18/2021
DRAWN BY KJH
DESIGNED BY KJH
CHECKED BY BTC
SCALE 1"=50'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
TRANSPORTATION MANAGEMENT PLAN - PHASE 2F

JOB NO. 43569
SHEET NO. 1E(12)

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GENERAL CONSTRUCTION NOTES

1. THIS PROJECT TO BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF CHARLOTTESVILLE STANDARDS (LATEST EDITION), THE VDOT *ROAD AND BRIDGE SPECIFICATIONS* DATED 2020, *ROAD AND BRIDGE STANDARDS* DATED 2020, *WORK AREA PROTECTION MANUAL* DATED 2011 (REVISION 2) AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE PAPER COPY OF THE PLAN ASSEMBLY. IN THE CASE OF REDUNDANT STANDARDS, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
2. THE CONTRACTOR SHALL CALL "MISS UTILITY" 72 HOURS PRIOR TO THE START OF EXCAVATION. 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.
3. CONTRACTOR SHALL ACQUIRE ANY AND ALL NECESSARY CONSTRUCTION PERMITS, AND FURNISH COPIES TO THE CITY AND ENGINEER PRIOR TO COMMENCING CONSTRUCTION ACTIVITY.
4. ALL WORK SHALL BE SUBJECT TO INSPECTION BY DESIGNATED CITY OFFICIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION TO THE CHIEF INSPECTOR (NUMBER TO BE PROVIDED) 48 HOURS PRIOR TO THE START OF WORK.
5. 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).
6. ALL DIMENSIONS ARE TO FACE OF CURB, UNLESS OTHERWISE NOTED ON PLANS.
7. PERMIT TO WORK INSIDE CHARLOTTESVILLE RIGHT-OF-WAY SHALL BE OBTAINED BY CONTRACTOR FROM CITY ADMINISTRATOR PRIOR TO CONSTRUCTION.
8. IN ACCORDANCE WITH HANDICAP ACCESSIBILITY REQUIREMENTS, ALL APPLICABLE CODES AND REQUIREMENTS FOR ACCESSIBILITY FOR DISABLED PERSONS SHALL BE STRICTLY COMPLIED WITH.
9. TIE-IN TO EXISTING PAVEMENTS ALONG MAINLINE AND CONNECTORS SHALL BE MILLED TO A DEPTH MATCHING THE NEW SURFACE ASPHALT COURSE IN ACCORDANCE WITH VDOT ROAD AND BRIDGE STANDARD ACOT-1. WIDENING SHALL CONFORM TO ROAD AND BRIDGE STANDARD WP-2.
10. DEMOLITION OF EXISTING ASPHALT PAVEMENT TO BE IN ACCORDANCE WITH VDOT SPECIFICATIONS.
11. 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.
12. 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 OWNER.
13. 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, VDOT AND THE ENGINEER. THE COSTS FOR SUCH ITEMS SHALL BE INCLUDED IN THE CONTRACTOR'S LUMP SUM PRICE.
14. 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 CITY OF CHARLOTTESVILLE. THE COSTS FOR SUCH ITEMS SHALL BE INCLUDED IN THE CONTRACTOR'S LUMP SUM BID.
15. 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.
16. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL ENSURE A MINIMUM 6:1 PAVEMENT WEDGE EXISTS AT THE EDGE OF ANY MILLED OR SAW-CUT PAVEMENT EDGES. THE EDGE SHALL BE DELINEATED BY GROUP II CHANNELIZING DEVICES IN ACCORDANCE WITH THE VDOT WORK AREA PROTECTION MANUAL.
17. IF FIELD CONDITIONS ARE FOUND TO VARY FROM SURVEY DATA OR FROM WHAT IS SHOWN ON THE PLANS, THE CONTRACTOR IS TO NOTIFY THE ENGINEER OF RECORD IMMEDIATELY, PRIOR TO PROCEEDING WITH CONSTRUCTION.
18. CONCRETE ITEMS SUCH AS SIDEWALK, CURB RAMPS, AND CURB SHALL BE REINFORCED ALONG RADIAL RETURNS. SIDEWALKS AND CURB RAMPS SHALL MEET CG-13 CONCRETE DEPTH AND REINFORCING STANDARDS.

VDOT GENERAL NOTES

GRADING GENERAL NOTES

G-1 THE GRADE LINE DENOTES TOP OF FINISHED PAVEMENT UNLESS SHOWN OTHERWISE ON TYPICAL SECTIONS OR PLANS.

G-4 THE COST OF REMOVAL OF ALL EXISTING CONCRETE OR ASPHALT ITEMS LOCATED IN THE AREA TO BE GRADED SHALL BE INCIDENTAL TO THE LUMP SUM PRICE.

G-6 ALL BORROW EXCAVATION AND EMBANKMENT MATERIALS USED TO CONSTRUCT EMBANKMENTS FOR THIS PROJECT SHALL MEET A MINIMUM CBR VALUE OF 10.0 AND SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH SECTION 303.04(h) OF THE 2016 ROAD AND BRIDGE SPECIFICATIONS OR AS APPROVED BY THE DISTRICT MATERIALS ENGINEER.

G-7 MATERIAL FROM REGULAR EXCAVATION WHICH IS SUITABLE FOR STABILIZATION WITH HYDRAULIC CEMENT (LIME) SHALL BE PLACED IN THE TOP PORTION OF THE SUBGRADE.

DRAINAGE GENERAL NOTES

D-1 THE HORIZONTAL LOCATION OF ALL DRAINAGE STRUCTURES SHOWN ON THESE PLANS IS APPROXIMATE ONLY, WITH THE EXCEPTION OF STRUCTURES SHOWING SPECIFIC STATIONS, SPECIAL DESIGN BRIDGES, AND STORM SEWER SYSTEMS.

D-2 THE HORIZONTAL LOCATION AND INVERT ELEVATIONS SHOWN FOR PROPOSED CULVERTS AND STORM SEWER OUTFALL PIPES ARE BASED ON EXISTING SURVEY DATA AND REQUIRED DESIGN CRITERIA. IF, DURING CONSTRUCTION, IT IS FOUND THAT THE HORIZONTAL LOCATION OR INVERT ELEVATIONS SHOWN ON THE PLANS DIFFER SIGNIFICANTLY FROM THE HORIZONTAL LOCATION OR ELEVATIONS OF THE STREAM OR SWALE IN WHICH THE CULVERT OR STORM SEWER OUTFALL PIPE IS TO BE PLACED, THE ENGINEER SHALL CONFER WITH, AND GET APPROVAL FROM, THE APPLICABLE DISTRICT DRAINAGE ENGINEER BEFORE INSTALLING THE CULVERT OR STORM SEWER OUTFALL PIPE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER VIA REQUEST FOR INFORMATION (RFI) BEFORE INSTALLING PIPES OR STRUCTURES WHERE VARIATIONS FROM PLAN ELEVATIONS EXIST.

D-3 THE "H" DIMENSIONS SHOWN ON THE PLANS FOR DROP INLETS AND JUNCTION BOXES AND THE "LF" DIMENSIONS SHOWN FOR MANHOLES ARE FOR ESTIMATING PURPOSES AND ARE BASED ON THE PROPOSED INVERT ELEVATIONS SHOWN FOR THE STRUCTURE AND THE ANTICIPATED TOP (RIM) ELEVATION BASED ON EXISTING OR PROPOSED FINISHED GRADE. THE ACTUAL "H" OR "LF" DIMENSIONS ARE TO BE DETERMINED BY THE CONTRACTOR FROM FIELD CONDITIONS.

D-7 ALL PIPE ON THIS PROJECT SHALL BE REINFORCED CONCRETE PIPE UNLESS OTHERWISE SPECIFIED. FOR STRENGTH, SHEET THICKNESS, OR CLASS DESIGNATION, AVAILABLE SIZES, HEIGHT OF COVER LIMITATIONS AND OTHER RESTRICTIONS FOR A PARTICULAR PIPE TYPE OR HEIGHT OF COVER, SEE THE APPLICABLE SECTIONS OF THE VDOT ROAD AND BRIDGE STANDARDS PC-1.

D-13 EXISTING DRAINAGE FACILITIES BEING UTILIZED AS A PART OF THE DRAINAGE SYSTEM, AND DESIGNATED ON THE PLANS "TO BE CLEANED OUT", SHALL BE CLEANED AS DIRECTED BY THE ENGINEER. THE COST INCIDENTAL TO THIS SHALL BE INCLUDED IN THE LUMP SUM BID.

D-14 PROPOSED DROP INLETS WITH A HEIGHT (H) LESS THAN THE STANDARD MINIMUM SHOWN IN THE VDOT ROAD AND BRIDGE STANDARDS SHALL BE CONSIDERED AND PAID FOR AS STANDARD DROP INLETS FOR THE TYPE SPECIFIED. PIPES WITH LESS THAN STANDARD MINIMUM FINISHED HEIGHT OF COVER SHALL BE NOTED AS SUCH IN THE DRAINAGE DESCRIPTION FOR THE PIPE. SPECIFIC PIPE BEDDING AND COVER REQUIREMENTS ARE PROVIDED IN THE APPLICABLE PB-1 AND PC-1 STANDARD DRAWINGS OF THE VDOT ROAD AND BRIDGE STANDARDS.

INCIDENTAL GENERAL NOTES

I-7 WHERE STANDARD SLOPE ROUND-OFFS WOULD DAMAGE TREES, BUSHES, OR OTHER DESIRABLE VEGETATION, THEY SHALL BE OMITTED WHEN SO ORDERED BY THE ENGINEER.

I-8A 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 ENGINEER.

I-9 WHEN NO CENTERLINE ALIGNMENT IS SHOWN FOR A PROPOSED ENTRANCE, THE ENTRANCE SHALL BE CONSTRUCTED IN THE SAME LOCATION AS THE EXISTING ENTRANCE.

I-16 THE UNDERGROUND UTILITIES SURVEY DATA ON THIS PROJECT HAS BEEN PROVIDED BY THE CONSULTANT AND COPIES ARE AVAILABLE FROM THE LOCALITY.

I-17 FOR METHOD OF CONSTRUCTING STRAIGHT-LINE TAPER LANES IN CURB AND/OR CURB AND GUTTER SECTIONS, SEE TYPICAL DETAILS ON THIS SHEET.

I-18 ALL PAVEMENT MARKINGS AND TRAFFIC FLOW ARROWS SHOWN ON THE ROADWAY CONSTRUCTION PLANS ARE SCHEMATIC ONLY. THE ACTUAL LOCATION AND APPLICATION OF PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH SECTION 704 OF THE APPLICABLE ROAD AND BRIDGE SPECIFICATIONS, MUTCD, SEQUENCE OF CONSTRUCTION / TRAFFIC CONTROL PLANS, CITY SPECIFICATIONS,PAVEMENT MARKING PLAN SHEETS 2E AND 2F, AND AS DIRECTED BY THE ENGINEER.

I-20 THE OFFICIAL ELECTRONIC PDF VERSION OF THE PLANS WILL OVERRIDE THE PAPER COPIES OR PRINTS OF SPECIFIC LAYERS. PORTIONS OF THIS PLAN ASSEMBLY HAVE BEEN CADD GENERATED. AUTOCAD FORMAT (.DWG) FILES WILL BE MADE AVAILABLE TO THE WINNING BIDDER, AND AFTER THE CONTRACT HAS BEEN FINALIZED.

I-21 ALL ELECTRONIC PLAN ASSEMBLIES WILL INCLUDE THE CONSTRUCTION PLANS IN TWO FORMATS: PDF FILES AND AUTOCAD FORMAT (.DWG) FILES. ONLY THE PDF FILES WILL BE CONSIDERED AS PART OF THE OFFICIAL PLAN ASSEMBLY.

THE AUTOCAD FORMAT FILES ARE FURNISHED ONLY AS INFORMATION FOR THE CONTRACTOR. THESE PLANS ARE DEVELOPED IN LAYERS TO AID IN READABILITY. HOWEVER, CONSTRUCTION ITEMS MAY OR MAY NOT BE IN THE PROPER LAYERING SCHEME. AUTOCAD LICENSES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

PAVEMENT GENERAL NOTES

P-2 THE PAVEMENT MATERIALS ON THIS PROJECT WILL BE PAID FOR ON A LUMP SUM BASIS. THE WEIGHT WILL VARY IN ACCORDANCE WITH THE SPECIFIC GRAVITY OF THE AGGREGATES AND THE ASPHALTIC CONTENT OF THE MIX ACTUALLY USED TO SECURE THE DESIGN DEPTH. THE WEIGHT OF THE ASPHALT CONCRETE IS BASED ON 95% OF THEORETICAL MAXIMUM DENSITY. (SEE IIM-LD-158)

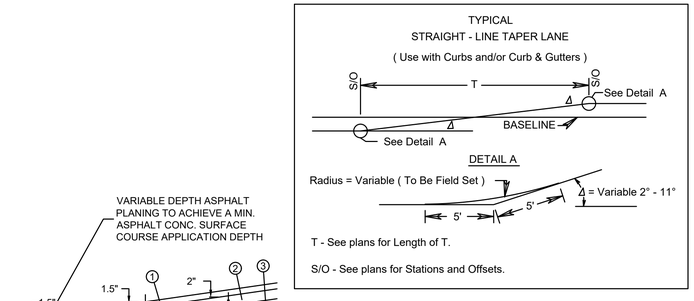
EROSION AND SEDIMENT CONTROL GENERAL NOTES

E-1 IF THE REMOVAL OF BRUSH SILT BARRIER IS SPECIFIED BY THE PLANS OR REQUIRED BY THE ENGINEER, THE COST OF REMOVAL AND DISPOSAL OF BRUSH SHALL BE INCLUDED IN THE LUMP SUM PRICE.

E-2 ROCK FOR CHECK DAMS, INLET PROTECTION, EROSION CONTROL STONE, AND RIP-RAP SHALL BE IN ACCORDANCE WITH SECTION 203 AND SECTION 414 OF THE APPLICABLE ROAD AND BRIDGE SPECIFICATIONS.

E-3 REFER TO THE EROSION AND SEDIMENT CONTROL PLANS FOR A LEGEND OF SYMBOLS DEPICTING THOSE ITEMS & ADDITIONAL NOTES.

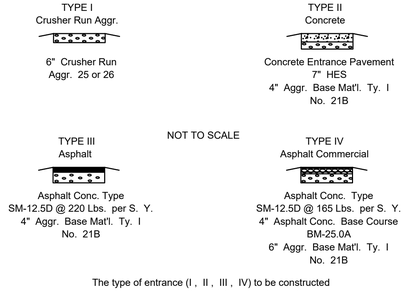
TYPICAL DETAILS



PAVEMENT BUILD-UP WITH OVERLAY

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

PRIVATE AND COMMERCIAL ENTRANCES



The type of entrance (I , II , III , IV) to be constructed will be determined by the existing condition at the time of construction.

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 — BENCH MARK #1
- APPROX. BORING LOCATION — B-1
- 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.

Project #: NHPP-5104(275)
UPC: 111796

60% PLANS

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DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: N/A

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

GENERAL NOTES & DETAILS

JOB NO. 43569
SHEET NO. 2(1)

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CITY OF CHARLOTTESVILLE GENERAL NOTES

Project #: NHPP-5104(275)
UPC: 111796

GENERAL NOTES

UTILITIES

1. ANY DAMAGE TO EXISTING UTILITIES CAUSED BY CONTRACTOR OR ITS SUBCONTRACTORS SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY AND REPAIRED AT CONTRACTOR'S EXPENSE.
2. THE CONTRACT DOCUMENTS DO NOT GUARANTEE THE EXISTENCE, NON-EXISTENCE OR LOCATION OF UTILITIES. CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OR THE NON-EXISTENCE OF UTILITIES. AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION, CONTRACTOR SHALL NOTIFY MISS UTILITY (1-800-552-7001) AND/OR THE RESPECTIVE UTILITY COMPANIES FOR GAS, WATER, SEWER, POWER, PHONE AND CABLE. CONTRACTOR SHALL TIMELY ARRANGE TO HAVE THE VARIOUS UTILITIES LOCATED, AND TO HAVE THEM REMOVED OR RELOCATED, OR TO DETERMINE THE METHOD OF PROTECTION ACCEPTABLE TO THE RESPECTIVE OWNER, IF THE METHOD OF PROTECTION IS NOT OTHERWISE SPECIFIED. CONTRACTOR SHALL CONDUCT ITS WORK IN THE VICINITY OF EXISTING UTILITIES IN ACCORDANCE WITH THE RESPECTIVE UTILITY'S RULES AND REGULATIONS. ANY COST INCURRED FOR REMOVING, RELOCATING OR PROTECTING UTILITIES SHALL BE BORNE BY CONTRACTOR UNLESS INDICATED OTHERWISE. CONTRACTOR SHALL EXCAVATE TO LOCATE BURIED UTILITIES FAR ENOUGH IN ADVANCE OF ITS WORK TO ALLOW FOR HORIZONTAL AND /OR VERTICAL ADJUSTMENTS TO ITS WORK AND/OR THE UTILITIES. NO ADJUSTMENT IN COMPENSATION OR SCHEDULE WILL BE ALLOWED FOR DELAYS RESULTING FROM CONTRACTOR'S FAILURE TO CONTACT AND COORDINATE WITH UTILITIES.
3. WHEN THE WORK CROSSES EXISTING UTILITIES, THE EXISTING UTILITIES SHALL BE POTHOLED AND ADEQUATELY SUPPORTED AND PROTECTED FROM DAMAGE DUE TO THE WORK. ALL METHODS FOR SUPPORTING AND MAINTAINING THE EXISTING UTILITIES SHALL BE APPROVED BY THE RESPECTIVE UTILITY COMPANY AND/OR THE ENGINEER. CONTRACTOR SHALL EXERCISE CARE TO ENSURE THAT THE GRADE AND ALIGNMENT OF EXISTING UTILITIES ARE MAINTAINED AND THAT NO JOINTS OR CONNECTIONS ARE DISPLACED. BACKFILL SHALL BE CAREFULLY PLACED AND COMPACTED TO PREVENT FUTURE DAMAGE OR SETTLEMENT TO EXISTING UTILITIES. ANY UTILITIES REMOVED AS PART OF THE WORK, AND NOT INDICATED TO BE REMOVED OR ABANDONED, SHALL BE RESTORED USING MATERIALS AND INSTALLATION EQUAL TO THE UTILITY'S STANDARDS.
4. CONTRACTOR SHALL NOTIFY THE CITY, LANDOWNERS, TENANTS AND THE ENGINEER PRIOR TO THE INTERRUPTION OF ANY SERVICES. SERVICE INTERRUPTIONS SHALL BE KEPT TO A MINIMUM.

EROSION CONTROL & WORK AREA PROTECTION AND MAINTENANCE

1. CONTRACTOR IS PERMITTED TO WORK IN THE PUBLIC RIGHT-OF-WAY AND ANY TEMPORARY OR PERMANENT EASEMENT SHOWN ON THE PLANS. HOWEVER, CONTRACTOR SHALL NOTIFY PROPERTY OWNER(S) FORTY-EIGHT (48) HOURS PRIOR TO WORKING ON ANY PRIVATE PROPERTY (OR NON-RIGHT OF WAY) TO COORDINATE ACCESS AND TO DETERMINE A STORAGE AREA FOR MATERIALS IF NEEDED. COORDINATION OF ACCESS TO PUBLIC RIGHT-OF-WAY AND STORAGE OF MATERIALS THEREON SHALL BE COORDINATED WITH THE ENGINEER. CONTRACTOR'S FAILURE TO SO NOTIFY AND COORDINATE WITH PROPERTY OWNERS AND/OR THE ENGINEER MAY RESULT IN DELAYS. NO ADDITIONAL COMPENSATION OR TIME FOR PERFORMANCE WILL BE GIVEN FOR ANY SUCH DELAYS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE A LAND DISTURBING PERMIT.
3. CONTRACTOR SHALL, AT HIS EXPENSE, MAINTAIN THE WORK SITE IN A CLEAN AND ORDERLY APPEARANCE AT ALL TIMES. ALL DEBRIS AND SURPLUS MATERIAL COLLECTED SHALL BE DISPOSED OF OFF THE WORK SITE BY CONTRACTOR, AT HIS EXPENSE.
4. EXISTING LAWNS, TREES, SHRUBS, FENCES, UTILITIES, CULVERTS, WALLS, WALKS, DRIVEWAYS, POLES, SIGNS, RIGHT-OF-WAY MONUMENTS, MAILBOXES AND THE LIKE (AS APPLICABLE) SHALL BE PROTECTED FROM DAMAGE DURING THE WORK. ANY DAMAGE CAUSED TO SUCH ITEMS SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST. PROPERTY PINS DISTURBED BY CONTRACTOR THAT ARE NOT SHOWN ON THE PLANS TO BE DISTURBED SHALL BE RESTORED BY A LICENSED SURVEYOR AT CONTRACTOR'S EXPENSE.
5. CONTRACTOR SHALL EMPLOY EROSION CONTROL DEVICES AND METHODS AS REQUIRED TO MEET THE REQUIREMENTS AND INTENT OF THE CITY EROSION CONTROL ORDINANCE. CONTRACTOR SHALL PROVIDE THE NECESSARY DIVERSION DITCHES, DIKES OR TEMPORARY CULVERTS REQUIRED TO PREVENT MUD AND DEBRIS FROM BEING WASHED ONTO THE STREETS OR PROPERTY. CONTRACTOR'S VEHICLES SHALL BE KEPT CLEAN TO PREVENT MUD OR DUST FROM BEING DEPOSITED ON STREETS. NO AREA SHALL BE LEFT DENUDED FOR MORE THAN SEVEN (7) CALENDAR DAYS.
6. CONTRACTOR SHALL CLEAN UP, RESTORE, PERMANENTLY SEED AND MAINTAIN ALL DISTURBED AREAS IMMEDIATELY UPON COMPLETION OF WORK ON EACH SITE. TOPSOIL, SEED, FERTILIZER AND MULCH SHALL BE PLACED IN ACCORDANCE WITH CITY STANDARDS ON ALL DISTURBED AREAS. A PERMANENT STAND OF GRASS ADEQUATE TO PREVENT EROSION SHALL BE ESTABLISHED PRIOR TO FINAL ACCEPTANCE.
7. AS DETERMINED BY THE ENGINEER AND/OR THE CITY, ANY DEFECTIVE, FAULTY, CRACKED, BROKEN OR GRAFFITIED DRIVEWAYS, OR CURB & GUTTER SHALL BE REMOVED AND REPLACED PRIOR TO FINAL ACCEPTANCE. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH WORK.
8. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS DURING ALL PHASES OF CONSTRUCTION.

EARTHWORK AND SITE CONDITIONS

1. EXCEPT AS OTHERWISE SHOWN ON THE PLANS, ALL CUTS AND FILLS SHALL MATCH EXISTING SLOPES OR BE NO GREATER THAN 2:1.
2. ALL GRADING AND IMPROVEMENTS TO BE CONFINED TO THE PROJECT AREA UNLESS OTHERWISE INDICATED.
3. ALL MATERIALS AND INSTALLATION DETAILS SHALL CONFORM TO THE CITY OF CHARLOTTESVILLE ENGINEERING DIVISION STANDARDS AND ALL OTHER APPLICABLE CITY ORDINANCES.
4. ANY UNUSUAL OR UNANTICIPATED SUBSURFACE CONDITIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND LOCATIONS PRIOR TO BEGINNING WORK, AND IMMEDIATELY NOTIFY THE ENGINEER IN THE EVENT THERE ARE ANY DISCREPANCIES BETWEEN SUCH CONDITIONS AND THOSE SHOWN ON THE PLANS AND SPECIFICATIONS.

CONCRETE AND ASPHALT

1. ALL SITE WORK CONCRETE SHALL BE CITY MIX. CITY MIX TO BE COLORED OMAHA TAN AND SHALL MEET REQUIREMENTS OF VDOT A3 CONCRETE UNLESS OTHERWISE SPECIFIED.
2. ALL FORMS SHALL BE INSPECTED BY THE ENGINEERING INSPECTOR BEFORE ANY CONCRETE IS PLACED. THE ENGINEER INSPECTOR MAY REQUIRE CONTRACTOR, AT NO ADDITIONAL COST, TO REMOVE AND REPLACE CONCRETE PLACED PRIOR TO OR WITHOUT SUCH INSPECTION.
3. ALL MATERIAL INSIDE FORMS SHALL BE CLEAN AND FREE OF ALL ROCKS AND OTHER LOOSE DEBRIS. SUB-BASE MATERIAL SHALL BE COMPACTED BY MECHANICAL MEANS.
4. CONCRETE SHALL NOT BE PLACED UNLESS THE AIR TEMPERATURE IS AT LEAST 40 DEGREES FAHRENHEIT (F) IN THE SHADE AND RISING.
5. CONCRETE SHALL NOT BE PLACED UNTIL STEEL DOWELS HAVE BEEN INSTALLED IN EXISTING CONCRETE IN ACCORDANCE WITH CITY STANDARDS.
6. 1/2" PREMOLDED EXPANSION JOINT MATERIAL SHALL BE PLACED AT A MAXIMUM OF 30' INTERVALS AT END OF DRIVEWAY ENTRANCE.
7. DISPOSAL OF ALL EXCESS MATERIAL IS THE RESPONSIBILITY OF CONTRACTOR.
8. CONCRETE ITEMS ALONG RADIAL RETURNS SUCH AS CURB, SIDEWALK, AND CURB RAMPS SHALL BE REINFORCED. SIDEWALKS AND CURB RAMPS SHALL MEET CG-13 CONCRETE DEPTH AND REINFORCING STANDARDS.

DRAINAGE

1. CONTRACTOR SHALL MAINTAIN EXISTING STREAMS, DITCHES, DRAINAGE STRUCTURES, CULVERTS AND FLOWS AT ALL TIMES DURING THE WORK. CONTRACTOR SHALL PAY FOR ALL PERSONAL INJURY AND PROPERTY DAMAGE WHICH MAY OCCUR AS A RESULT OF FAILING TO MAINTAIN ADEQUATE DRAINAGE.

VEGETATION

1. PRIOR TO REMOVING ANY VEGETATION, CONTRACTOR SHALL MEET WITH THE CITY (AKA THE PROPERTY OWNERS) AND THE ENGINEER TO REVIEW THE LIMITS OF CONSTRUCTION AND OBTAIN PERMISSION TO REMOVE VEGETATION REQUIRED TO DO THE WORK.
2. TREE AND PLANT ROOTS OR BRANCHES THAT MAY INTERFERE WITH THE WORK SHALL BE TRIMMED OR CUT ONLY WITH THE APPROVAL OF THE OWNER AND ENGINEER. ANY TREES OR PLANTS WHICH ARE SHOWN TO REMAIN THAT DO NOT INTERFERE WITH THE WORK, BUT ARE DAMAGED BY CONTRACTOR OR HIS SUBCONTRACTORS, SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST.

TRAFFIC AND SIGNAGE

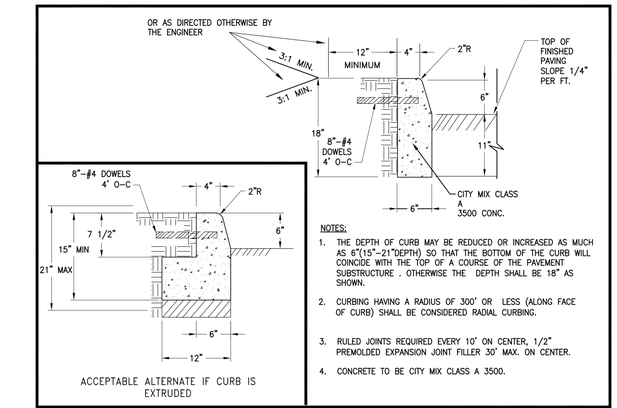
1. THE CONTRACTOR SHALL STAGE MATERIALS AND EQUIPMENT OUTSIDE ROADWAY CLEAR ZONE AND ENTRANCE SITE DISTANCE AREAS.
2. CONTRACTOR SHALL PROVIDE ALL NECESSARY REFLECTORS, BARRICADES, TRAFFIC CONTROL DEVICES AND/OR FLAG PERSONS TO INSURE THE SAFETY OF ITS WORKERS AND THE PUBLIC.
3. CONTRACTOR SHALL MAINTAIN SAFE AND PASSABLE PUBLIC ACCESS TO PROPERTIES AND THE PUBLIC RIGHT-OF-WAY DURING CONSTRUCTION. EXCEPT AS APPROVED IN ADVANCE IN WRITING BY THE ENGINEER, TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGH WORK AREAS WITHIN THE PUBLIC RIGHT-OF-WAY. THESE TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE MOST CURRENT MUTCD MANUAL. ACCESS FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
4. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN BEGIN ROAD CONSTRUCTION AND END ROAD CONSTRUCTION SIGNAGE FOR THE PROJECT.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE CITY TRAFFIC DIVISION ONE FULL WORKING DAY PRIOR TO ANY CONCRETE POUR WHERE TRAFFIC AND STREET SIGNS ARE TO BE REPLACED. UPON SUCH NOTIFICATION, THE CITY WILL PROVIDE SIGN POST SLEEVES, WHEN NEEDED, AND IDENTIFY THE LOCATION WHERE SIGNS ARE TO BE PLACED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING A STREET CLOSURE PERMIT FOR ANY STREET OR SIDEWALK CLOSURE.

MISCELLANEOUS

1. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, BONDS, AND OTHER APPROVAL RELATED ITEMS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, CITY, STATE, AND FEDERAL POLICIES; NO CHARGE FOR CITY REQUIRED/ ISSUED PERMITS.
2. A STREET CUT PERMIT IS REQUIRED FOR ANY CUTTING OF A STREET, SIDEWALK, OR CURB.

GENERAL NOTES

1. IMPROVEMENTS TO BE CONSTRUCTED AS SPECIFIED; NO SUBSTITUTIONS WILL BE ACCEPTED.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS SHOWN IN PLANS AND BID DOCUMENTS OR REASONABLY INFERRED.
3. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT VIRGINIA DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS AND STANDARDS.
4. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CONSULT THE ENGINEER AND VERIFY THE APPROVAL OF THE PLANS BY ALL FEDERAL, STATE AND LOCAL AGENCIES.
5. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF ALL POINTS OF CONNECTION OR PROPOSED WORK TO EXISTING CURBS, SANITARY LINES, WATERLINES, ETC, PRIOR TO CONSTRUCTION.
6. UPON DISCOVERY OF SOILS THAT ARE UNSUITABLE FOR FOUNDATIONS, SUBGRADES, OR OTHER ROADWAY CONSTRUCTION PURPOSES, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE OWNER. THESE AREAS SHALL BE EXCAVATED BELOW PLAN GRADE AS DIRECTED BY THE OWNER, BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED IN ACCORDANCE WITH CURRENT.
7. ALL STORM SEWER DESIGN AND CONSTRUCTION TO BE IN ACCORDANCE WITH VDOT I AND IM LD-94 (D) 121.13.
8. ALL RCP STORM SEWER PIPE SHALL BE REINFORCED TONGUE AND GROOVE CONCRETE PIPE IN ACCORDANCE WITH ASTM-C-76. PIPE SHALL BE MINIMUM CLASS III OR GREATER IN ACCORDANCE WITH CURRENT VDOT STANDARDS AND SPECIFICATIONS.
9. IF PRE-CAST UNITS ARE TO BE USED CERTIFICATION AND VDOT STAMP WILL BE REQUIRED ON ALL UNITS.
10. DESIGN CHANGES, SPECIFIED MATERIALS CHANGES AND/OR FIELD CHANGES FROM THE APPROVED PLANS NEED TO BE RESUBMITTED TO THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. A LETTER OF EXPLANATION SHALL ACCOMPANY THE REVISED PLANS AND/OR THE DRAINAGE CALCULATIONS, WHICH MUST BE SUBMITTED AND APPROVED BY THE ENGINEER.
11. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON PLAN. IF THERE APPEARS TO BE A CONFLICT, AND/OR UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THIS PLAN, CALL MISS UTILITY OF CENTRAL VIRGINIA AT 1-800-552-7001.
12. A PRIME COAT SEAL BETWEEN THE AGGREGATE BASE AND BITUMINOUS CONCRETE WILL BE REQUIRED AT THE RATE OF 0.30 GALLONS PER SQUARE YARD (REC-250 PRIME COAT) PER VDOT STANDARDS AND SPECIFICATIONS.
13. THE SCHEDULING OF AGGREGATE BASE INSTALLATION AND SUBSEQUENT PAVING ACTIVITIES SHALL ACCOMMODATE FORECASTED WEATHER CONDITIONS PER SECTION 315 OF THE ROAD AND BRIDGE SPECIFICATIONS.
14. THE OWNERS REPRESENTATIVE SHALL HAVE APPROVED THE AGGREGATE BASE COURSE(S) FOR DEPTH, TEMPLATE AND PERFORMED THE REQUIRED FIELD INSPECTION (PROOF ROLL) PRIOR TO PLACEMENT OF ANY SURFACE COURSE(S). CONTACT THE CITY FOR INSPECTION FOR THE AGGREGATE BASE COURSE(S) 48 HOURS PRIOR TO APPLICATION OF THE SURFACE COURSE(S).
15. ALL VEGETATION AND ORGANIC MATERIAL MATERIAL IS TO BE REMOVED FROM THE PROPOSED FUTURE PAVEMENT LIMITS PRIOR TO CONDITIONING OF THE SUBGRADE.
16. CERTIFICATION AND SOURCE OF MATERIALS ARE TO BE SUBMITTED TO THE OWNER FOR ALL MATERIALS AND BE IN ACCORDANCE WITH THE ROAD AND BRIDGE SPECIFICATIONS, AND ROAD AND BRIDGE STANDARDS.
17. CONTRACTOR SHALL PROVIDE A SEQUENCE OF CONSTRUCTION/MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH THE STANDARDS AND GUIDELINES CONTAINED IN THE LATEST EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL FOR REVIEW BY THE ENGINEER AND CITY OF CHARLOTTESVILLE PRIOR TO STARTING WORK THAT IMPACTS TRAFFIC ON PUBLIC ROADS.
18. ALL NEW HANDICAP ACCESSIBLE REQUIREMENTS ON-SITE AND WITHIN ALL NEW STRUCTURES SHALL COMPLY WITH THE LATEST EDITION OF THE UNIFORM STATEWIDE BUILDING CODE, AND THE LATEST EDITION OF THE VIRGINIA CONSTRUCTION CODE, AND ICC/ANSI A117.1-03.
19. HORIZONTAL AND VERTICAL SIGHT DISTANCES SHALL BE FREE OF PARKED VEHICLES.



NOTES:

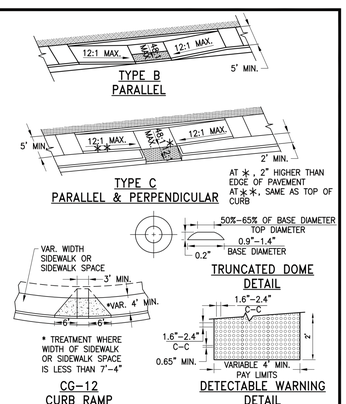
1. THE DEPTH OF CURB MAY BE REDUCED OR INCREASED AS MUCH AS 6"(15"–21"DEPTH) SO THAT THE BOTTOM OF THE CURB WILL COINCIDE WITH THE TOP OF A COURSE OF THE PAVEMENT SUBSTRUCTURE . OTHERWISE THE DEPTH SHALL BE 18" AS SHOWN.
2. CURBING HAVING A RADIUS OF 300' OR LESS (ALONG FACE OF CURB) SHALL BE CONSIDERED RADIAL CURBING.
3. RULED JOINTS REQUIRED EVERY 10' ON CENTER, 1/2" PREMOLDED EXPANSION JOINT FILLER 30' MAX. ON CENTER.
4. CONCRETE TO BE CITY MIX CLASS A 3500.

CITY OF CHARLOTTESVILLE

REVISION	DATE	CITY STANDARDS
		STANDARD CURBING
		SCALE: N.T.S. / STANDARD NUMBER: CG-2

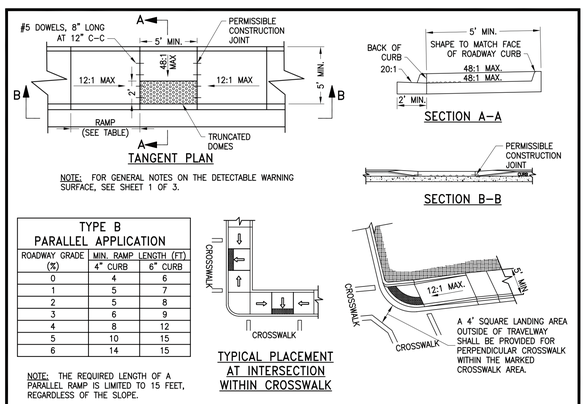
GENERAL NOTES:

1. DETECTABLE WARNING TO BE PRE-FORMED PLASTIC INSERT WITH SLIP RESISTANT SURFACE COVERING THE FULL WIDTH OF THE RAMP FLOOR BY 2 FOOT IN LENGTH IN THE DIRECTION OF TRAVEL.
2. THE DETECTABLE WARNING SHALL BE PROVIDED BY TRUNCATED DOMES. TRUNCATED DOMES TO BE STAMPED IN TOP SURFACE. THE COLOR OF THE DETECTABLE WARNING SECTION SHALL BE YELLOW.
3. SLOPING SIDES OF CURB RAMP MAY BE POURED MONOLITHICALLY WITH RAMP FLOOR OR BY USING PERMISSIBLE CONSTRUCTION JOINT WITH REQUIRED BARS.
4. IF RAMP FLOOR IS PRECAST, HOLES MUST BE PROVIDED FOR DOWEL BARS SO THAT ADJOINING FLARED SIDES CAN BE CAST IN PLACE AFTER PLACEMENT OF PRECAST RAMP FLOOR. PRECAST CONCRETE SHALL BE CLASS A–4.
5. REQUIRED BARS ARE TO BE NO. 5 X 8" PLACED 1' CENTER TO CENTER ALONG BOTH SIDES OF THE RAMP FLOOR, MID–DEPTH OF RAMP FLOOR. MINIMUM CONCRETE COVER 1 1/2".
6. RAMPS MAY BE PLACED ON RADIAL OR TANGENTIAL SECTIONS PROVIDED THAT THE CURB OPENING IS PLACED WITHIN THE LIMITS OF THE CROSSWALK AND THAT THE SLOPE AT THE CONNECTION OF THE CURB OPENING IS PERPENDICULAR TO THE CURB.
7. TYPICAL CONCRETE SIDEWALK IS 4" THICK. WHEN THE RAMP IS PLACED IN THE CURB RETURN RADIUS IT SHALL BE 7" THICK.
8. WHEN CURB RAMPS ARE USED IN CONJUNCTION WITH A SHARED USE PATH, THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHARED USE PATH.



CITY OF CHARLOTTESVILLE

REVISION	DATE	CITY STANDARDS
		CG–12 DETECTABLE WARNING SURFACE GENERAL NOTES (SHEET 1 OF 3)
		SCALE: N.T.S. / STANDARD NUMBER: CG–12



NOTE: FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 3.

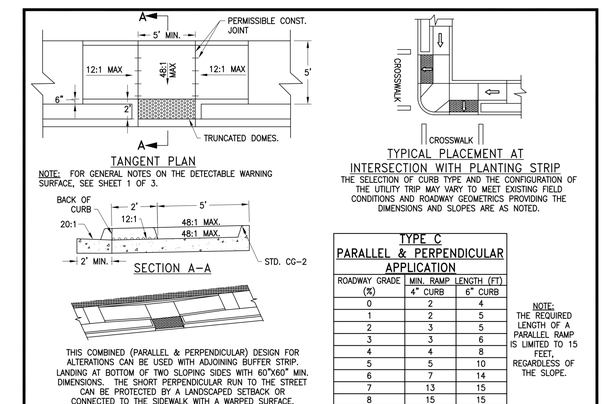
TYPE B PARALLEL APPLICATION

ROADWAY GRADE (%)	MIN. RAMP LENGTH (FT) 4" CURB	6" CURB
0	4	6
1	5	7
2	5	8
3	6	9
4	8	12
5	10	15
6	14	15

NOTE: THE REQUIRED LENGTH OF A PARALLEL RAMP IS LIMITED TO 15 FEET, REGARDLESS OF THE SLOPE.

CITY OF CHARLOTTESVILLE

REVISION	DATE	CITY STANDARDS
		CG–12 DETECTABLE WARNING SURFACE TYPE B (SHEET 2 OF 3)
		SCALE: N.T.S. / STANDARD NUMBER: CG–12



NOTE: FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 3.

THE SELECTION OF CURB TYPE AND THE CONFIGURATION OF THE UTILITY TRIP MAY VARY TO MEET EXISTING FIELD CONDITIONS AND ROADWAY GEOMETRICS PROVIDING THE DIMENSIONS AND SLOPES ARE AS NOTED.

THIS COMBINED (PARALLEL & PERPENDICULAR) DESIGN FOR ALTERATIONS CAN BE USED WITH ADJOINING BUFFER STRIP. LANDING AT BOTTOM OF TWO SLOPING SIDES WITH 60"X60" MIN. DIMENSIONS. THE SHORT PERPENDICULAR RUN TO THE STREET CAN BE PROTECTED BY A LANDSCAPED SETBACK OR CONNECTED TO THE SIDEWALK WITH A WARPED SURFACE.

TYPE C PARALLEL & PERPENDICULAR APPLICATION

ROADWAY GRADE (%)	MIN. RAMP LENGTH (FT) 4" CURB	6" CURB
0	2	4
1	2	5
2	3	5
3	3	6
4	4	8
5	5	10
6	7	14
7	13	15
8	15	15

NOTE: THE REQUIRED LENGTH OF A PARALLEL RAMP IS LIMITED TO 15 FEET, REGARDLESS OF THE SLOPE.

CITY OF CHARLOTTESVILLE

REVISION	DATE	CITY STANDARDS
		CG–12 DETECTABLE WARNING SURFACE TYPE C (SHEET 3 OF 3)
		SCALE: N.T.S. / STANDARD NUMBER: CG–12

60% PLANS

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DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: N/A

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

GENERAL NOTES & DETAILS

JOB NO. 43569

SHEET NO. 2(2)

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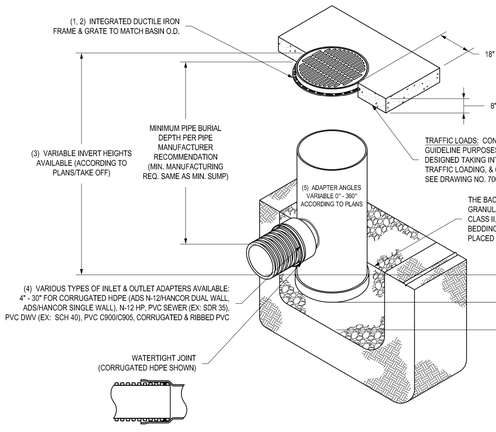
Project #: NHPP-5104(275)
UPC: 111796

NYLOPLAST 30" DRAIN BASIN: 2830AG _ _X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-20	3099CGP	7001-110-220
STANDARD	MEETS H-20	3099CGS	7001-110-221
SOLID COVER	MEETS H-20	3099CGC	7001-110-222
DOME	N/A	3099CGD	7001-110-223

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

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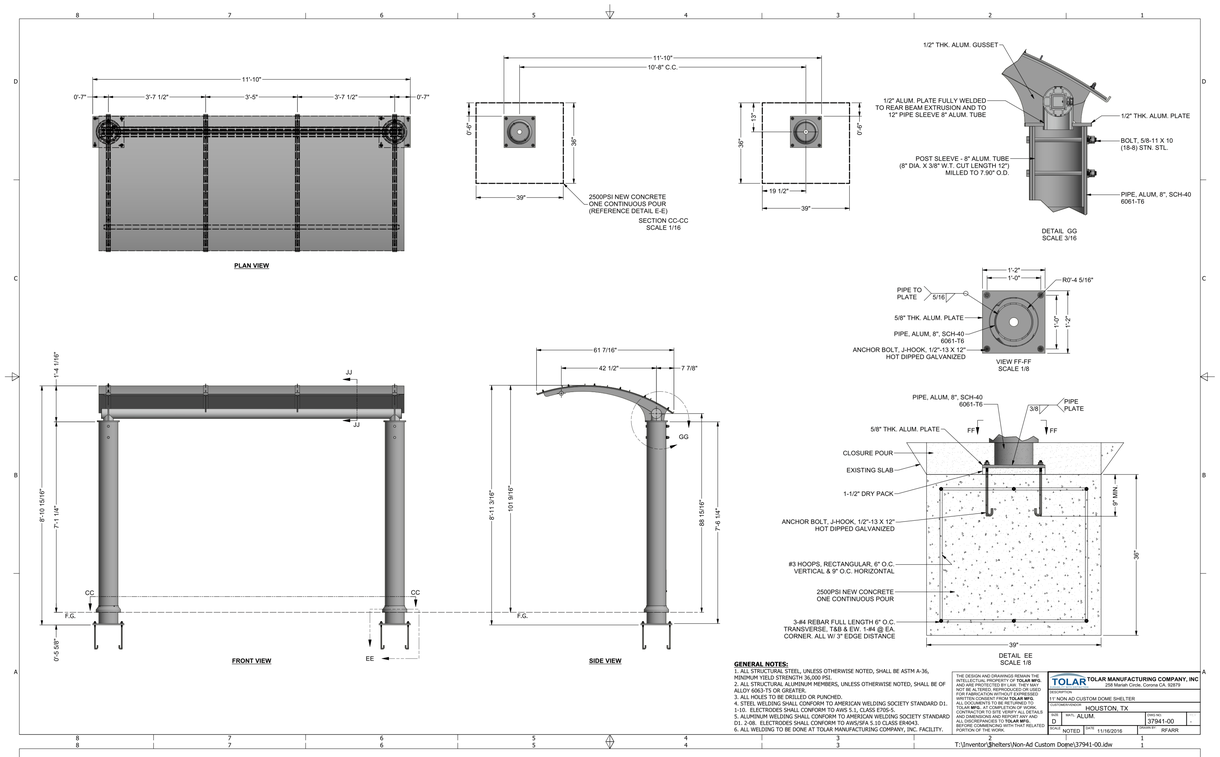
DRAWN BY	EBC	MATERIAL	
DATE	04-03-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-14-16		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE
30 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-193 REV G

BUS SHELTER DETAILS



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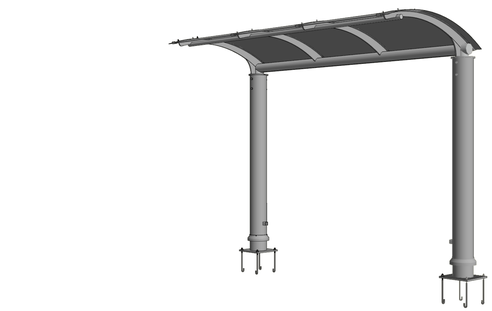
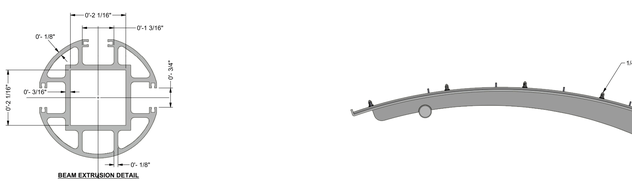
TOLAR MANUFACTURING COMPANY, INC
299 Market Circle, Corona CA. 92879

DESCRIPTION	11' NON AD CUSTOM DOME SHELTER
CUSTOMER/VENDOR	HOUSTON, TX
SIZE D	MFG. ALUM
DRAWN BY NOTES	DATE 11/16/2016
MFG NO. 37941-00	REVISION REFARR

T:\Inventor\Shelters\Non-Ad Custom Dome\37941-00.idw





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TOLAR MANUFACTURING COMPANY, INC
299 Market Circle, Corona CA. 92879

DESCRIPTION	REAR ROOF BEAM, 11' SUNSET SHELTER
CUSTOMER/VENDOR	
SIZE D	MFG.
DRAWN BY	DATE 11/16/2016
MFG NO. 20334-00	REVISION REFARR

T:\Inventor\Shelters\Non-Ad Custom Dome\37941-00.idw

60% PLANS

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DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE
06/18/2021

DRAWN BY
KJH

DESIGNED BY
KJH

CHECKED BY
BTC

SCALE
1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
GENERAL NOTES & DETAILS

JOB NO.
43569

SHEET NO.
2(3)

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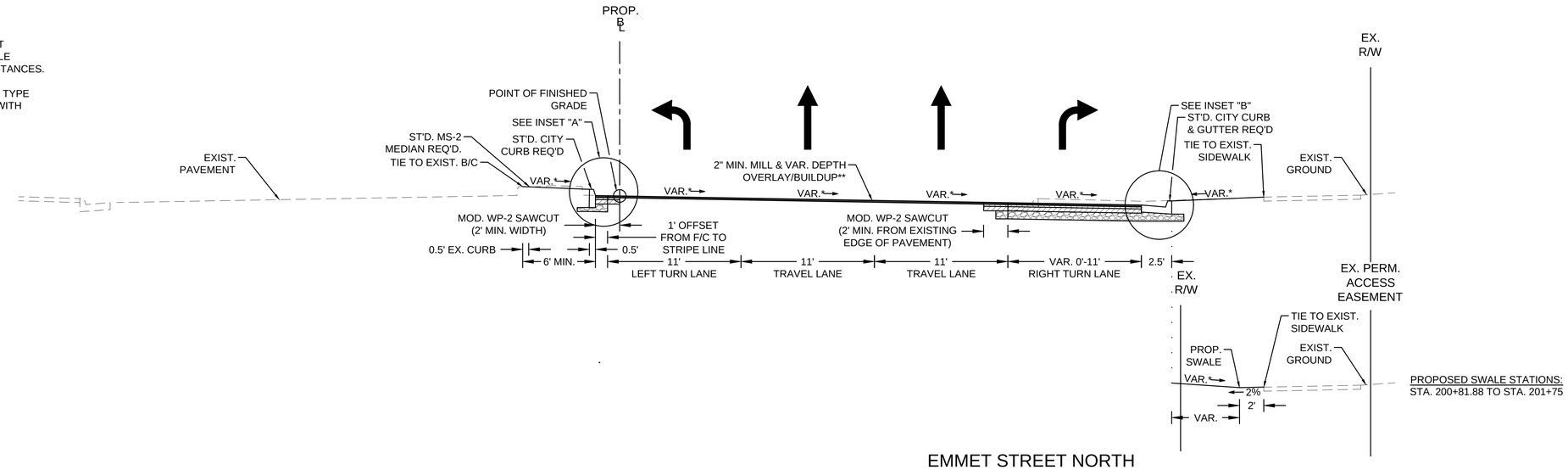
Project #: NHPP-5104(275)
UPC: 111796

EMMET STREET NORTH
GS-5 URBAN PRINCIPAL ARTERIAL ROAD - 40 MPH DESIGN SPEED
(ROADWAY WIDENING TYPICAL SECTION)
STA. 200+74.51 TO STA. 203+87.30

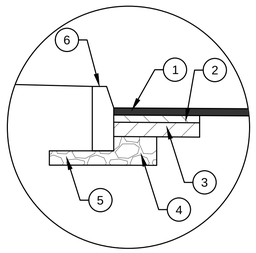
* NOTE: SEE CROSS SECTIONS FOR PROPOSED SLOPES

** NOTE: MILL OR OVERLAY EXISTING PAVEMENT AS NECESSARY TO BE BUILT UP WITH ASPHALT CONCRETE BASE TYPE IM-19.0A AT VARIABLE DEPTH DEPENDING ON EXISTING CIRCUMSTANCES. EXISTING ROADWAY TO BE OVERLAID WITH MINIMUM 220 LBS/S.Y. ASPHALT CONCRETE TYPE SM-12.5A. REFER TO PAVEMENT BUILD-UP WITH OVERLAY DETAIL ON SHEET 2(1).



PROPOSED SWALE STATIONS:
STA. 200+81.88 TO STA. 201+75

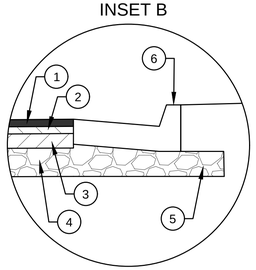
INSET A



NOT TO SCALE

1. 1.5" VDOT TYPE SM-12.5D ASPHALT CONCR. SURFACE COURSE
2. 2" VDOT TYPE IM-19.0D ASPHALT CONCR. INTERMEDIATE COURSE
3. 7" VDOT TYPE BM-25.0A ASPHALT CONCR. BASE COURSE
4. 30" VDOT TYPE I, NO. 21B AGGREGATE SUBBASE COURSE
5. VAR. DEPTH (4" MIN.) VDOT TYPE I, NO. 21B AGGREGATE SUBBASE COURSE
6. CITY OF CHARLOTTESVILLE ST'D. MC-1 CURB

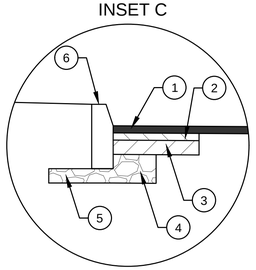
INSET B



NOT TO SCALE

1. 1.5" VDOT TYPE SM-12.5D ASPHALT CONCR. SURFACE COURSE
2. 2" VDOT TYPE IM-19.0D ASPHALT CONCR. INTERMEDIATE COURSE
3. 7" VDOT TYPE BM-25.0A ASPHALT CONCR. BASE COURSE
4. 30" VDOT TYPE I, NO. 21B AGGREGATE SUBBASE COURSE
5. VAR. DEPTH (4" MIN.) VDOT TYPE I, NO. 21B AGGREGATE SUBBASE COURSE
6. CITY OF CHARLOTTESVILLE CG-6 CURB AND GUTTER

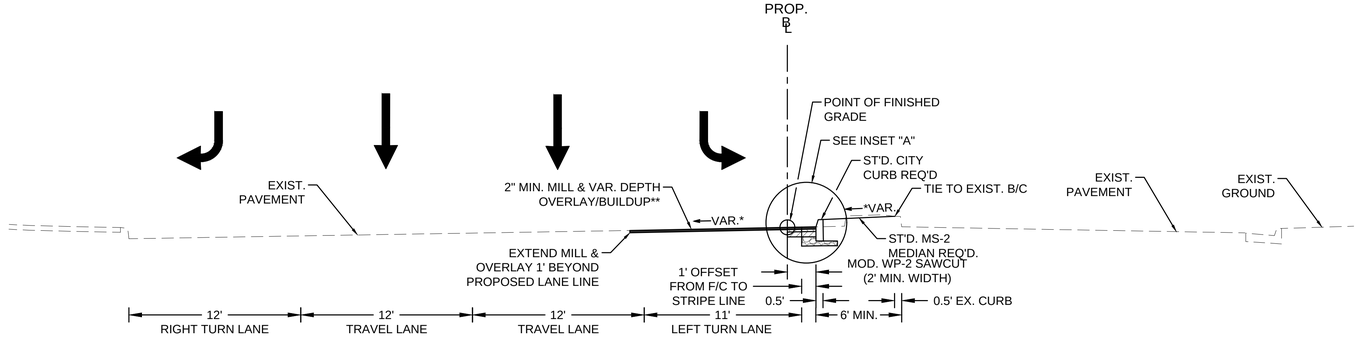
INSET C



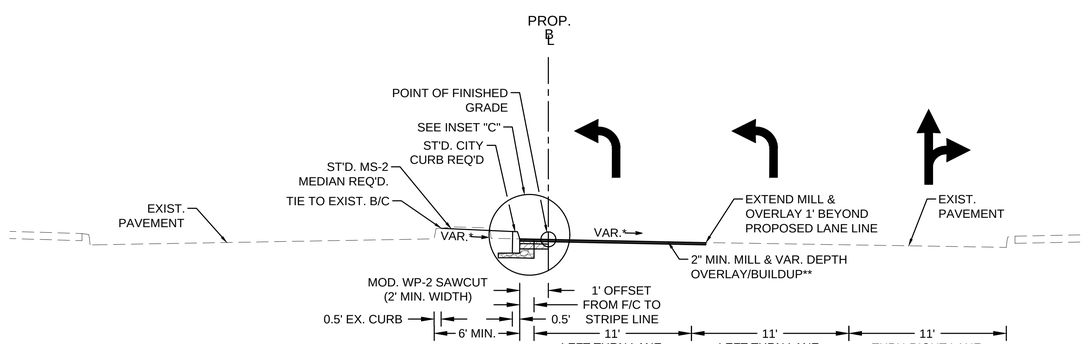
NOT TO SCALE

1. 1.5" VDOT TYPE SM-12.5D ASPHALT CONCR. SURFACE COURSE
2. 2" VDOT TYPE IM-19.0D ASPHALT CONCR. INTERMEDIATE COURSE
3. 7" VDOT TYPE BM-25.0A ASPHALT CONCR. BASE COURSE
4. 18" VDOT TYPE I, NO. 21B AGGREGATE SUBBASE COURSE
5. VAR. DEPTH (4" MIN.) VDOT TYPE I, NO. 21B AGGREGATE SUBBASE COURSE
6. CITY OF CHARLOTTESVILLE ST'D. MC-1 CURB

EMMET STREET NORTH
GS-5 URBAN PRINCIPAL ARTERIAL ROAD - 40 MPH DESIGN SPEED
(MEDIAN WIDENING TYPICAL SECTION)
STA. 203+87.30 TO STA. 208+29.21



BARRACKS ROAD - WEST
GS-6 URBAN MINOR ARTERIAL ROAD - 25 MPH DESIGN SPEED
(MEDIAN WIDENING TYPICAL SECTION)
STA. 100+11.16 TO STA. 104+00.00



60% PLANS

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DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: N.T.S.

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
TYPICAL SECTIONS

JOB NO. 43569
SHEET NO. 2A(1)

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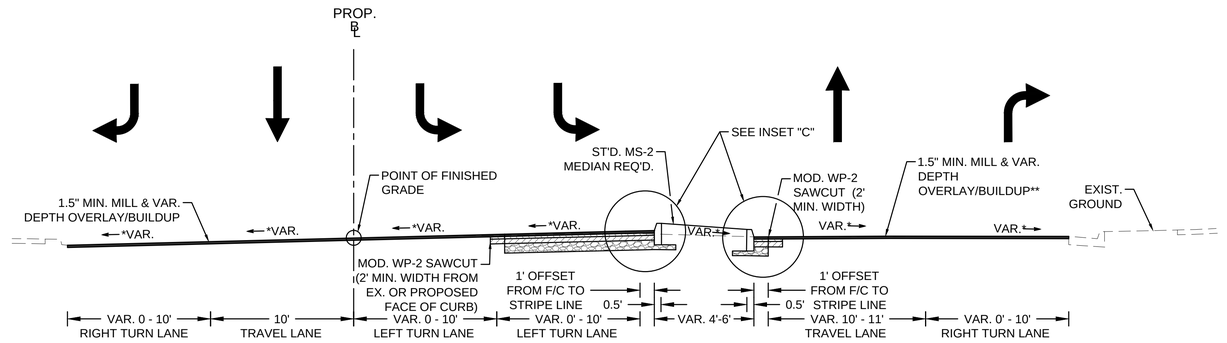
I:\CDS\Projects\Barracks Rd Emmet St Improvements\Drawings\Plan Sheets\Typical Sections\Typical Sections.dwg [Plot] 6/18/2021 11:13:58 AM by Kyle Hagan

Project #: NHPP-5104(275)
UPC: 111796

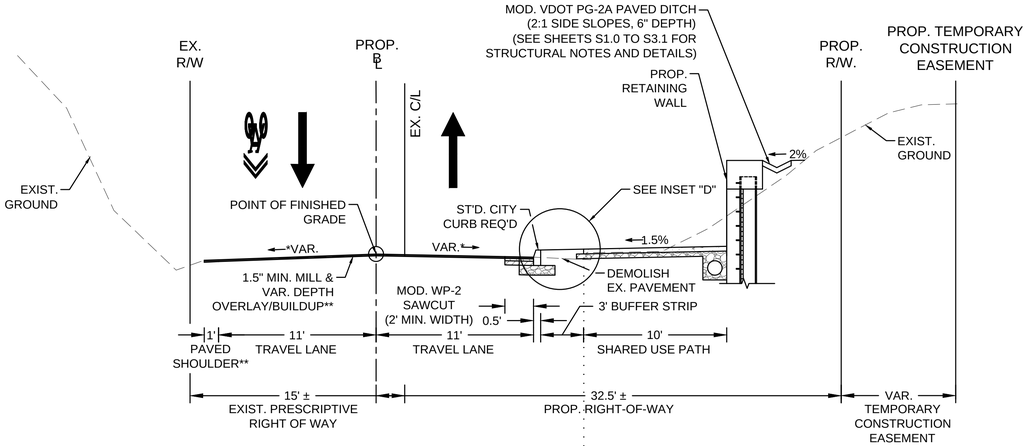
BARRACKS ROAD - EAST
GS-6 URBAN MINOR ARTERIAL ROAD - 25 MPH DESIGN SPEED
(APPROACH IMPROVEMENTS TYPICAL SECTION)

STA. 104+00.00 TO STA. 107+32.71

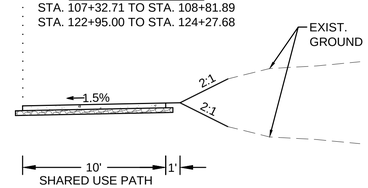


BARRACKS ROAD - EAST
GS-6 URBAN MINOR ARTERIAL ROAD - 25 MPH DESIGN SPEED
(SHARED USE PATH TYPICAL SECTION)

STA. 107+32.71 TO STA. 124+27.68



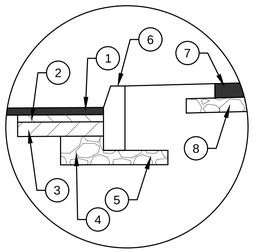
NO RETAINING WALL AT PROPOSED STATIONS:
STA. 107+32.71 TO STA. 108+81.89
STA. 122+95.00 TO STA. 124+27.68



** NOTE: 6:1 MAX ASPHALT WEDGE TO BE USED WHERE BUILDUP CAUSES THE PROP. E/P TO BE HIGHER THAN THE EX. E/P

EXIST. GROUND

INSET D



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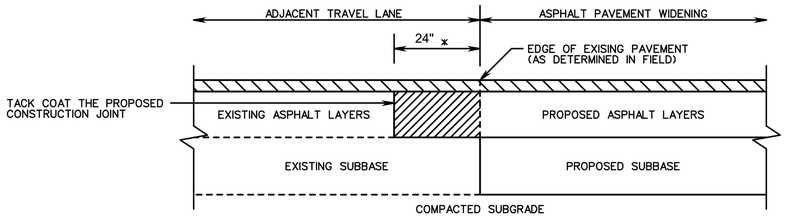
5. VAR. DEPTH (4" MIN.) VDOT TYPE I, NO. 21B AGGREGATE SUBBASE COURSE
6. CITY OF CHARLOTTESVILLE ST'D. MC-1 CURB
7. 4" HYD. CEMENT CONCRETE (CITY OF CHARLOTTESVILLE SW-1 ST'D. MIX)
8. 4" MIN. VDOT TYPE I, NO. 21B AGGREGATE SUBBASE COURSE

NOTE: WHERE CURB AND WALKWAYS ARE ADJACENT TO EACH OTHER, CURB AND WALKWAY SHALL BE DOWELED TOGETHER PER CITY OF CHARLOTTESVILLE CG-2 STANDARD. SIDEWALKS AND CURB SHALL NOT BE POURED MONOLITHICALLY.

MOD. WP-2



CONSTRUCTION JOINT DETAIL

- REMOVE EXISTING ASPHALT LAYERS TO EXISTING SUBBASE AND REPLACE WITH PROPOSED ASPHALT WIDENING LAYERS
- PROPOSED MINIMUM 1½ INCH THICK ASPHALT SURFACE COURSE (SEE NOTE 5)
- * MINIMUM 24 INCHES, OR GREATER AS NECESSARY TO ABUT THE FULL THICKNESS OF EXISTING ASPHALT LAYERS AS DETERMINED BY CORES (SEE NOTE 3)

NOTES:

1. ASPHALT PAVEMENT WIDENING SHALL HAVE A PAVEMENT DESIGN IN ACCORDANCE WITH CURRENT VDOT PROCEDURES AND BE APPROVED BY THE ENGINEER.
2. THE PAVEMENT DESIGN FOR ASPHALT PAVEMENT WIDENING SHALL MEET OR EXCEED THE DEPTHS AND TYPES OF THE LAYERS OF EXISTING PAVEMENT. SUBSURFACE DRAINAGE OF THE EXISTING AND PROPOSED PAVEMENT SHALL BE ADDRESSED IN THE PAVEMENT DESIGN.
3. A MINIMUM OF THREE CORES SHALL BE TAKEN ALONG THE CENTER OF THE ADJACENT TRAVEL LANE TO DETERMINE THE TYPE AND THICKNESS OF EXISTING PAVEMENT LAYERS. THESE CORES SHALL BE SPACED NO MORE THAN 500 FEET APART.
4. THE ADJACENT TRAVEL LANE SHALL BE MILLED A MINIMUM DEPTH OF 1½ INCHES AND REPLACED WITH AN ASPHALT SURFACE COURSE TO MATCH THE PROPOSED PAVEMENT WIDENING SURFACE COURSE, UNLESS WAIVED BY THE ENGINEER.
5. THE ENGINEER MAY REQUIRE THE MILLING DEPTH OF THE EXISTING PAVEMENT TO BE ADJUSTED TO ACHIEVE AN ACCEPTABLE PAVEMENT CROSS-SLOPE AND EFFECTIVE SURFACE DRAINAGE.
6. EXISTING PAVEMENT MARKINGS AND MARKERS WITHIN THE PROJECT LIMITS SHALL BE RESTORED SUBJECT TO THE APPROVAL OF THE ENGINEER.
7. FINAL TRANSVERSE PAVEMENT TIE-IN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 315.05(c) OF THE SPECIFICATIONS EXCEPT THAT ALL JOINTS AT TIE-IN LOCATIONS SHALL BE TESTED USING A 10 FOOT STRAIGHTEDGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 315.07(a) OF THE SPECIFICATIONS.

60% PLANS

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TYPICAL SECTIONS

JOB NO. 43569
SHEET NO. 2A(2)

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I:\CDS\BS\BS\BS\BS\BS\Barracks E (Emmet St)\PDV\DVDC\Submit\BS\BS\BS\BS\BS\BS\BS\BS\CADD\Xdyn\pTTmaster.xxt 6/8/2021 11:15:45 AM MYERS,ZACHARY (Xdyn)

Project #: NHPP-5104(275)
UPC: 111796

EROSION & SEDIMENT CONTROL NOTES

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO PROVIDE OPERATIONAL IMPROVEMENTS AT THE BARRACKS ROAD AND EMMET STREET INTERSECTION, INCLUDING TRAFFIC SIGNAL IMPROVEMENTS AND ADA COMPLIANT PEDESTRIAN/BICYCLE ACCOMMODATIONS THROUGH THE INTERSECTION. THE PROJECT WILL ALSO EXTEND A SHARED USE PATH FROM THIS INTERSECTION TO BUCKINGHAM ROAD AND INSTALL TWO (2) NEW CAT (CHARLOTTESVILLE AREA TRANSIT) BUS STOPS AT HESSIAN ROAD.

THE PROPOSED IMPROVEMENTS CONSIST OF APPROXIMATELY 650 LF OF ROADWAY WIDENING AND 1700 LF OF ASPHALT SHARED USE PATH ALONG WITH ASSOCIATED DRAINAGE AND GRADING. A TOTAL OF 2.08 ACRES WILL BE DISTURBED DURING CONSTRUCTION FOR THE ROADWAY IMPROVEMENTS.

EXISTING SITE CONDITIONS:

THE SURROUNDING TOPOGRAPHY FOR THE PROJECT CONSISTS OF GENTLY TO STRONGLY SLOPING GRADES NEAR THE BARRACKS ROAD AND EMMET STREET INTERSECTION. ALONG BARRACKS ROAD, THE TOPOGRAPHY CONSISTS OF STEEP SLOPES FORMING A SMALL VALLEY IN WHICH THE ROADWAY LIES.

ADJACENT PROPERTY:

THE BARRACKS ROAD AND EMMET STREET INTERSECTION IS SURROUNDED BY COMMERCIAL PROPERTY. BARRACKS ROAD IS SURROUNDED BY EXISTING WOODED RESIDENTIAL PROPERTIES.

SOILS:

THE PREDOMINANT SOILS FOR THIS PROJECT ARE:
- 91 URBAN LAND, HYDROLOGIC SOIL GROUP UNCLASSIFIED
- 134E GLENELG - URBAN LAND COMPLEX, 25 TO 45 PERCENT SLOPES, HYDROLOGIC SOIL GROUP B
- 121C CULPEPER - URBAN LAND COMPLEX, 7 TO 15 PERCENT SLOPES, HYDROLOGIC SOIL GROUP B
- 127C ELIOAK - URBAN LAND COMPLEX, 7 TO 15 PERCENT SLOPES, HYDROLOGIC SOIL GROUP B
- 129E FAUQUIER - URBAN LAND COMPLEX, 25 TO 45 PERCENT SLOPES, HYDROLOGIC SOIL GROUP C
- 27D ELIOAK LOAM, 15 TO 25 PERCENT SLOPES, HYDROLOGIC SOIL GROUP B

OFF-SITE AREAS:

NO OFF-SITE TOPSOIL STOCKPILE AREAS ARE NEEDED FOR THIS PROJECT. EXCESS MATERIAL FROM GRADING OPERATIONS SHALL BE UTILIZED AS FILL MATERIAL AND SPOILS SHALL BE DISPOSED OF IN STRICT ACCORDANCE WITH CITYY AND STATE REQUIREMENTS.

CRITICAL EROSION AREAS:

CRITICAL AREAS ARE AS FOLLOWS:
- ALL AREAS INVOLVING EXCAVATION AND RETAINING WALL INSTALLATION ALONG BARRACKS ROAD.
- ALL ADJACENT AND CONNECTING ROADS AND ENTRANCES FOR THE LENGTH OF THE PROJECT. CONTRACTOR MUST KEEP THE EXISTING ROAD FROM BUILD-UP OF SOIL.
- EACH ROAD PHASE AS COMPLETED SHALL BE KEPT CLEAR OF SEDIMENT.

EROSION AND SEDIMENT CONTROL MEASURES:

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE HANDBOOK. THE MINIMUM STANDARDS OF THE VESCH SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE.

MINIMUM STANDARDS

AN EROSION AND SEDIMENT CONTROL PROGRAM ADOPTED BY A DISTRICT OR LOCALITY MUST BE CONSISTENT WITH THE FOLLOWING CRITERIA, TECHNIQUES AND METHODS:

MS-1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

MS-2. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.

MS-3. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.

MS-4. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.

MS-5. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

MS-6. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.

A. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE ACRES.

B. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A 25-YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.

MINIMUM STANDARDS (CONTINUED)

MS-7. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.

MS-8. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.

MS-9. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.

MS-10. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

MS-11. BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.

MS-12. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.

MS-13. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.

MS-14. ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.

MS-15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.

MS-16. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

MS-17. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.

MS-18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

MS-19. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE STANDARDS AND CRITERIA LISTED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, CHAPTER 8 PAGES 20-24.

CITY OF CHARLOTTESVILLE EROSION CONTROL NOTES

1. CONTRACTOR IS PERMITTED TO WORK IN THE PUBLIC RIGHT-OF-WAY AND ANY TEMPORARY OR PERMANENT EASEMENT SHOWN ON THE PLANS. HOWEVER, CONTRACTOR SHALL NOTIFY PROPERTY OWNER(S) FORTY-EIGHT (48) HOURS PRIOR TO WORKING ON ANY PRIVATE PROPERTY (OR NON-RIGHT OF WAY) TO COORDINATE ACCESS AND TO DETERMINE A STORAGE AREA FOR MATERIALS IF NEEDED. COORDINATION OF ACCESS TO PUBLIC RIGHT-OF-WAY AND STORAGE OF MATERIALS THEREON SHALL BE COORDINATED WITH THE ENGINEER. CONTRACTOR'S FAILURE TO SO NOTIFY AND COORDINATE WITH PROPERTY OWNERS AND/OR THE ENGINEER MAY RESULT IN DELAYS. NO ADDITIONAL COMPENSATION OR TIME FOR PERFORMANCE WILL BE GIVEN FOR ANY SUCH DELAYS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE A LAND DISTURBING PERMIT.
3. CONTRACTOR SHALL, AT HIS EXPENSE, MAINTAIN THE WORK SITE IN A CLEAN AND ORDERLY APPEARANCE AT ALL TIMES. ALL DEBRIS AND SURPLUS MATERIAL COLLECTED SHALL BE DISPOSED OF OFF THE WORK SITE BY CONTRACTOR, AT HIS EXPENSE.
4. EXISTING LAWNS, TREES, SHRUBS, FENCES, UTILITIES, CULVERTS, WALLS, WALKS, DRIVEWAYS, POLES, SIGNS, RIGHT-OF-WAY MONUMENTS, MAILBOXES AND THE LIKE (AS APPLICABLE) SHALL BE PROTECTED FROM DAMAGE DURING THE WORK. ANY DAMAGE CAUSED TO SUCH ITEMS SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST. PROPERTY PINS DISTURBED BY CONTRACTOR THAT ARE NOT SHOWN ON THE PLANS TO BE DISTURBED SHALL BE RESTORED BY A LICENSED SURVEYOR AT CONTRACTOR'S EXPENSE.
5. CONTRACTOR SHALL EMPLOY EROSION CONTROL DEVICES AND METHODS AS REQUIRED TO MEET THE REQUIREMENTS AND INTENT OF THE CITY EROSION CONTROL ORDINANCE. CONTRACTOR SHALL PROVIDE THE NECESSARY DIVERSION DITCHES, DIKES OR TEMPORARY CULVERTS REQUIRED TO PREVENT MUD AND DEBRIS FROM BEING WASHED ONTO THE STREETS OR PROPERTY. CONTRACTOR'S VEHICLES SHALL BE KEPT CLEAN TO PREVENT MUD OR DUST FROM BEING DEPOSITED ON STREETS. NO AREA SHALL BE LEFT DENUDED FOR MORE THAN SEVEN (7) CALENDAR DAYS.
6. CONTRACTOR SHALL CLEAN UP, RESTORE, PERMANENTLY SEED AND MAINTAIN ALL DISTURBED AREAS IMMEDIATELY UPON COMPLETION OF WORK ON EACH SITE. TOPSOIL, SEED, FERTILIZER AND MULCH SHALL BE PLACED IN ACCORDANCE WITH CITY STANDARDS ON ALL DISTURBED AREAS. A PERMANENT STAND OF GRASS ADEQUATE TO PREVENT EROSION SHALL BE ESTABLISHED PRIOR TO FINAL ACCEPTANCE.
7. AS DETERMINED BY THE ENGINEER AND/OR THE CITY, ANY DEFECTIVE, FAULTY, CRACKED, BROKEN OR GRAFFITIED DRIVEWAYS, OR CURB & GUTTER SHALL BE REMOVED AND REPLACED PRIOR TO FINAL ACCEPTANCE. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH WORK.
8. CONTRACTOR SHALL INSTALL SILT FENCE WITH "SILT FENCE BREAK" PER DETAIL ON SHEET 2B(2) AS A REQUIRED OR REQUESTED BY E&S INSPECTOR ON THE DOWNSTREAM SIDE OF ANY AREAS OF THE PROJECT TO REMAIN DENUDED FOR GREATER THAN 7 DAYS.

EROSION CONTROL SEQUENCE OF CONSTRUCTION

1. SCHEDULE A PRE-CONSTRUCTION MEETING TO BE HELD AT NEIGHBORHOOD DEVELOPMENT SERVICES. THE CONTRACTOR MUST GIVE THE CITY INSPECTOR AT LEAST 48 HOURS NOTIFICATION TO SCHEDULE THE PRE-CONSTRUCTION MEETING FOR THE ISSUANCE OF A LAND DISTURBANCE PERMIT. THE CERTIFIED REGISTERED LAND DISTURBER MUST ATTEND THE MEETING.
2. THE VSMP CONSTRUCTION ACTIVITY OPERATOR AND THE CITY ENVIRONMENTAL INSPECTOR MUST ATTEND THE PRE-CONSTRUCTION MEETING.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADHERE TO REQUESTS FROM THE CITY'S E&S INSPECTOR TO ADD OR MODIFY E&S MEASURES DURING CONSTRUCTION.
4. INSTALL EROSION AND SEDIMENT CONTROL MEASURES WHERE APPROPRIATE. NO CONSTRUCTION SHALL BEGIN UNTIL EROSION CONTROL HAS BEEN INSTALLED AND REVIEWED AND APPROVED BY THE CITY E&S INSPECTOR.
5. COMMENCE PRELIMINARY GRADING ACCORDING TO MAINTENANCE OF TRAFFIC PLANS. PRIOR TO NEW AREAS BEING DISTURBED, INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS APPROPRIATE.
6. ALL IN-PLACE MEASURES SHALL BE INSPECTED IMMEDIATELY FOLLOWING EACH RAINFALL EVENT TO ENSURE FUNCTIONAL OPERATION.
7. AT PROJECT COMPLETION, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AT THE DIRECTION OF THE INSPECTOR AND/OR THE ENGINEER.

NOTE:
1. CONTRACTOR MUST KEEP THE EXISTING ROAD FREE FROM BUILDUP OF SOIL.

EROSION & SEDIMENT CONTROL LEGEND

OP	CULVERT OUTLET PROTECTION (VDOT ST'D. EC-1)
TSF	TEMPORARY SILT FENCE
LOD	PROJECT LIMITS OF DISTURBANCE
TP	TREE PROTECTION FENCE
RCD	ROCK CHECK DAM TYPE II (VDOT ST'D. EC-4)
IP-A	INLET PROTECTION TYPE A (VDOT ST'D. EC-6)
IP-B	INLET PROTECTION TYPE B (VDOT ST'D. EC-6)

60% PLANS

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REVISION DESCRIPTION	DATE
30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS	3/20/2020
60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	7/31/2020
60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	2/12/2021

DATE 06/18/2021
DRAWN BY KJH
DESIGNED BY KJH
CHECKED BY BTC
SCALE N/A

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
CITY OF CHARLOTTESVILLE COUNTY - VIRGINIA
EROSION & SEDIMENT CONTROL NOTES & DETAILS

JOB NO. 43569
SHEET NO. 2B(1)

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L:\20343569-Barracks_Emmet_Imp\DWG\Sheet\C2\43569-203C-02B(1)x.dwg | Plotted on 6/18/2021 11:55 AM | by Kyle Hogan

Project #: NHPP-5104(275)
UPC: 111796

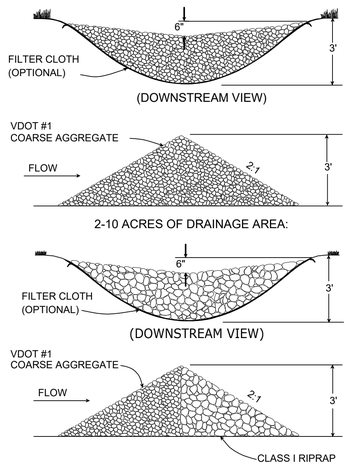
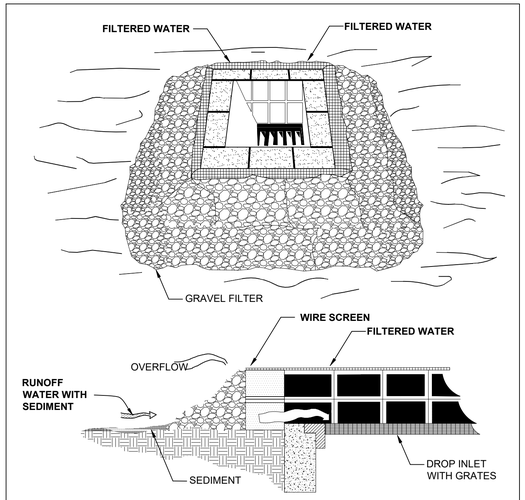


PLATE 3.20-1

CD ROCK CHECK DAM
No Scale

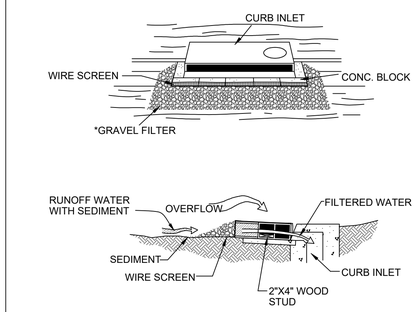


SPECIFIC APPLICATION
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

*GRAVEL SHALL BE VDOT #3, #357, OR #5 COARSE AGGREGATE.

PLATE 3.07-3

IP-A BLOCK AND GRAVEL DROP INLET SEDIMENT FILTER
No Scale



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE OVERFLOW CAPABILITY IS NECESSARY TO PREVENT EXCESSIVE PONDING IN FRONT OF THE STRUCTURE.
*GRAVEL SHALL BE VDOT #3, #357, OR #5 COARSE AGGREGATE.

PLATE 3.07-3

IP-B BLOCK AND GRAVEL CURB INLET SEDIMENT FILTER
No Scale

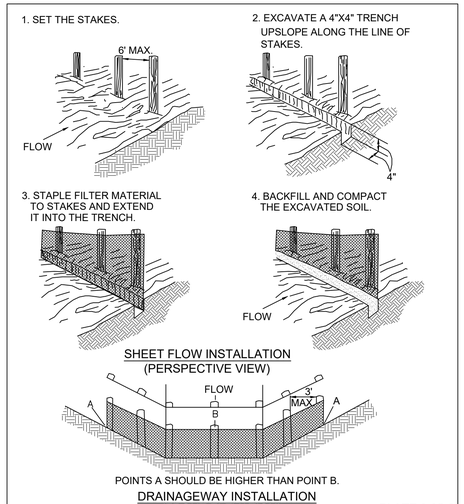
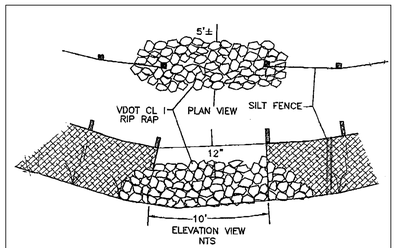


PLATE 3.05-2

SF CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)
No Scale



SILT FENCE BREAK
NOT TO SCALE

TABLE 3.31-B
(Revised June 2003)
TEMPORARY SEEDING SPECIFICATIONS
QUICK REFERENCE FOR ALL REGIONS

SEED		
APPLICATION DATES	SPECIES	APPLICATION RATES
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 -100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (lolium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lbs/acre)

FERTILIZER & LIME
• Apply 10-10-10 **fertilizer** at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.) • Apply **Pulverized Agricultural Limestone** at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.) **NOTE:** 1 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site. 2 - Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means. 3 - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/sw/e&s.htm#pubs

TABLE 3.32-C
(Revised June 2003)
PERMANENT SEEDING SPECIFICATIONS FOR APPALACHIAN/MOUNTAIN AREA

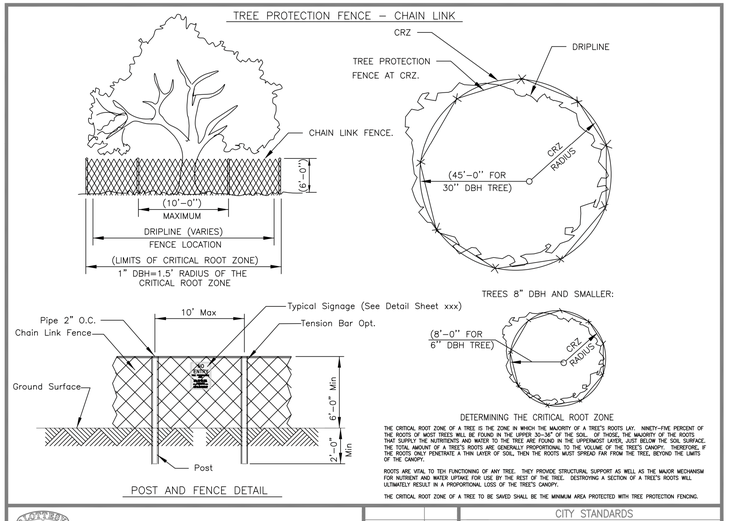
SEED[1]		
LAND USE	SPECIES	APPLICATION RATES
Minimum Care Lawn (Commercial or Residential)	Tall Fescue[1] Perennial Ryegrass[2] Kentucky Bluegrass[1]	90-100% 0-10% 0-10% TOTAL: 200-250 lbs.
High-Maintenance Lawn	Minimum of three (3) up to five (5) varieties of Kentucky Bluegrass from approved list for use in Virginia[1]	TOTAL: 125 lbs.
General Slope (3:1 or less)	Tall Fescue[1] Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop[3]	128 lbs. 2 lbs. 20 lbs. TOTAL: 150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue[1] Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop[3] Crownvetch[4]	108 lbs. 2 lbs. 20 lbs. 20 lbs. TOTAL: 150 lbs.

1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804-746-4884 or at http://sudan.cses.vt.edu/html/Turf/turfpublications/publications2.html
2 - Perennial Ryegrass will germinate faster and at lower soil temperatures than Tall Fescues, thereby providing cover and erosion resistance for seedbed.
3 - Use seasonal nurse crop in accordance with seeding dates as stated below:

March, April - May 15th	Annual Rye
May 16th - August 15th	Foxtail Millet
August 16th - September, October	Annual Rye
November - February	Winter Rye

4 - All legume seed must be properly inoculated. If Flatpea is used, increase to 30 lbs/acre. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30 -40 lbs/acre.

FERTILIZER & LIME
• Apply 10-20-10 **fertilizer** at a rate of **500** lbs. / acre (or 12 lbs. / 1,000 sq. ft.) • Apply **Pulverized Agricultural Limestone** at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.) **NOTE:** - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site. - Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means. - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/sw/e&s.htm#pubs



CITY OF CHARLOTTESVILLE

CITY STANDARDS
TREE PROTECTION DETAIL – CHAIN LINK FENCE
REVISION | DATE | SCALE: N.T.S. | STANDARD NUMBER: XX–1

60% PLANS

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STORM SEWER STRUCTURES

#1107
STORM MH
RIM=456.13'
INV IN= 451.15' (30" RCP FROM #1487)
INV IN= 451.23' (18" RCP FROM #1106)
INV OUT= 450.98' (30" RCP TO #1244)

#1244
STORM MH
RIM=456.48'
INV IN= 446.62' (30" RCP FROM #7458)
INV OUT= 446.63' (30" RCP TO #1107)

#1488
CATCH BASIN 12inDIA
TOP=443.20'
INV IN= 441.31' (10" PVC FROM #1491)

#1491
RIM=444.41'
INV IN= 435.62' (15" RCP FROM #7702)
INV IN= 441.38' (10" PVC FROM #1488)
INV OUT= 435.59' (15" RCP TO POSSIBLE 8'X 6' CULVERT)

#1810
STORM MH
RIM=433.34'
INV IN= 424.41 (36" RCP FROM #1853)
INV IN= 424.19' (36" RCP TO A.D.)

#1853
STORM MH
RIM=442.14'
INV IN= 433.99' (36" RCP FROM #1874)
INV OUT= 433.92' (36" RCP TO #1810)

#1988
GRATE INLET
TOP=441.31'
(NO PIPES VISIBLE - POSSIBLE DROP INTO 6'X 6' CHAMBER)
0.8 X 3.0 OPENING IN STRUCTURE = 438.39'

#2056
STORM MH
RIM=465.58'
INV OUT= 461.45' (15" RCP TO #7702)

#2059
GRATE INLET
TOP=445.68'
INV IN= 442.69' (21" RCP FROM A.D.)
INV OUT= 441.48' (24" RCP TO #7458)

#6361
STORM MH
RIM=443.09'
INV IN= 440.01' (15" RCP FROM #6366)
INV OUT= 439.97' (18" RCP TO #7567)

#6366
GRATE INLET
TOP=443.28'
(FULL OF DIRT- PIPES INACCESSIBLE)
TOP OF DIRT = 442.4±

#6472
STORM MH
RIM=443.12'
INV OUT= 439.87' (15" RCP TO #6515)

#6515
RIM=441.44'
STORM MH
INV IN= 438.96' (15" RCP FROM #6472)
INV OUT= 438.95' (TWIN 12" IRON TRANSITION TO 18" RCP TO #8002)

#6579
RIM=441.76'
STORM MH
INV IN= 433.83' (24" RCP FROM #7459)
INV IN= 435.57' (24" RCP FROM A.D.)
INV OUT= 433.81' (30" RCP TO #8002)

#6655
STORM MH
RIM=441.96'
INV OUT= 435.78' (18" RCP TO #8002)

#6697
STORM MH
RIM=443.60'
INV IN= 441.56' (8" IRON FROM NW)
INV OUT= 438.97' (15" RCP TO SW)

#6860
STORM MH
RIM=444.40'
INV IN= 440.97 (15" RCP FROM SE)
INV OUT= 441.05' (15" RCP TO #7459)

#7458
STORM MH
RIM=445.67'
INV IN= 439.91' (24" RCP FROM NE)
INV OUT= 439.97' (24" RCP TO #7459)

#7459
STORM MH
RIM=444.48'
INV IN= 439.11' (24" RCP FROM #7458)
INV IN= 438.37' (15" RCP FROM #6860)
INV OUT= 435.21' (24" RCP TO #6579)

#7461
GRATE INLET
GRATE INLET
TOP=445.09'
INV OUT= 442.15' (12" RCP TO POSSIBLE BLIND CONNECTION BETWEEN #7458 - #2059)

#7507
GRATE INLET
TOP=443.73'
INV OUT= 441.45' (15" RCP TO #6361)

#7567
STORM MH
RIM=442.50'
INV IN= 438.10' (18" RCP FROM #6361)
INV OUT= 438.14' (18" RCP TO #7599)

#7599
STORM MH
RIM=441.96'
INV IN= 438.56' (9" PVC FROM SW)
INV IN= 437.24' (18" RCP FROM #7567)
INV OUT= 437.15' (18" RCP TO #8002)

#7702
STORM MH
RIM=451.36'
INV IN= 447.45' (15" RCP FROM #2056)
INV OUT= 447.28' (15" RCP TO #1491)

#8002
RIM=441.71'
STORM MH
INV IN= 433.34' (24" RCP FROM #6579)
INV IN= 433.58' (18" RCP FROM #6655)
INV IN= 435.74' (18" RCP FROM 6515)
INV OUT= 433.16' (30" RCP TO #87003)

#8003
RIM=441.68'
STORM MH
INV IN= 431.87' (30" RCP FROM #8002)
INV OUT= 431.55' (36" RCP TO SE)

SANITARY SEWER STRUCTURES

#6251
SANITARY MH
RIM=444.94'
INV IN= 435.53' (18" TC FROM #6516)
INV IN= 435.44' (UNK SIZE & MATERIAL FROM #7533)
INV IN= 435.53' (UNK SIZE & MATERIAL FROM #7816)
INV OUT= 435.44' (18" TC TO #10003-OFFSITE)

#6516
SANITARY MH
RIM=441.85'
INV IN= 437.31' (18" DI FROM #7814)
INV IN= 437.35' (18" TC FROM #7460)
INV IN= 437.40' (8" DI FROM #8004)
INV IN= 437.94' (6" DI FROM NW)
INV OUT= 437.26' (18" TC TO #6251)

#6859
SANITARY MH
RIM=445.98'
INV IN= 437.87' (15" TC FROM NW-OFFSITE)
INVE OUT= 438.08' (15" TC TO #7460

#7460
SANITARY MH
RIM=444.15'
INV IN= 437.06' (15" TC FROM #6859)
INV OUT= 437.21' (18" TC TO #6516)

#7533
SANITARY MH
RIM=444.13'
INV OUT= 436.87' (UNK SIZE & MATERIAL TO #6251)

#7700
SANITARY MH
RIM=456.32'
INV IN= 444.48' (6" TC FROM #7818)
INV IN= 451.45' (6" TC FROM #7701)
INV OUT= 444.50' (8"TC TO #7817)

#7701
SANITARY MH
RIM=456.15'
INV IN= 451.85' (6" TC FROM SW)
INV OUT= 451.72' (6" TC TO #7700)

#7814
SANITARY MH
RIM=444.81'
INV IN= 437.46' (18" DI FROM NW)
INV IN= 440.42' (4" DI FROM SW)
INV OUT= 437.53' (18" DI TO #6516)

#7816
DRY SANITARY MH
RIM=444.04'
C/L ELEVATION= 440.10' (PIPES SURCHARGED W/DIRT)

#7817
SANITARY MH OFFSITE
RIM=454.21'
INV IN= 441.93' (18" TC TO NW)
INV IN= 443.32' (8" TC FROM #7700)
INV OUT= 441.87' (18" TC TO NW)

#8001
RIM=441.71'
SANITARY MH
INV IN= 438.24' 8" DI FROM #8000)
INV IN= 438.52' (6" DI FROM SW)
INV OUT= 438.20' (8" DI TO #8004)

#8004
RIM=441.68'
SANITARY MH
INV IN= 437.38' (8" DI FROM #8003)
INV OUT= 437.40' (8" DI TO #6516)

UTILITY OWNERSHIP LIST

ELECTRIC
DOMINION ENERGY INC.
1719 HYDRAULIC ROAD
CHARLOTTESVILLE, VA 22901
CONTACT: NATE HORSTICK
EMAIL: nathaniel.d.horstick@dominionenergy.com
CONTACT: MICHAEL MONCRIEFFE
EMAIL: michael.moncrieffe@dominionenergy.com

TELECOM
CENTURY LINK
417 W. MAIN STREET
CHARLOTTESVILLE, VA 22903
CONTACT: THERESA BRYANT
PHONE: (434) 956-3833
EMAIL: theresa.bryant@centurylink.com

VERIZON BUSINESS
CONTACT: GENE MULLER
PHONE: (703) 801-9532
EMAIL: gene.muller@verizon.com

FIBER
CROWN CASTLE
1500 CORPORATE DRIVE
CANONSBURG, PA 15317
CONTACT: RICK STRANSKY
EMAIL: rick.stransky@crowncastle.com

FIBERLIGHT
3000 SUMMIT PLACE, SUITE 200
ALPHARETTA, GA 30009
CONTACT: AMALFI ARIAS
EMAIL: amalfi.arias@fiberlight.com

SEGRA
1 LUMOS PLAZA
WAYNESBORO, VA 22980
CONTACT: DEAN SCHEIDT
PHONE: (804) 297-3017
EMAIL: dean.scheidt@segra.com

TING
CONTACT: KYLE VRHOVAC
PHONE: (434) 327-7347
EMAIL: kyle@ting.com

QWEST GOVERNMENT SERVICES
2900 TOWEVIEW ROAD
HERNDON, VA 20171
CONTACT: NOAH DOBBINS
PHONE: (703) 464-7529
EMAIL: noah.dobbins@centurylink.com

CATV
COMCAST
400 WESTFIELD ROAD
CHARLOTTESVILLE, VA 22901
CONTACT: PHILIP PERRY
PHONE: (434) 951-3812
EMAIL: philip_perry@comcast.com

WATER
CITY OF CHARLOTTESVILLE
605 E MAIN ST
CHARLOTTESVILLE, VA 22902
CONTACT: ROY NESTER
PHONE: (434) 970-3908
EMAIL: nesterr@charlottesville.org

GAS
CITY OF CHARLOTTESVILLE
605 E MAIN ST
CHARLOTTESVILLE, VA 22902
CONTACT: ROY NESTER
PHONE: (434) 970-3908
EMAIL: nesterr@charlottesville.org

TRAFFIC CONTROL
CITY OF CHARLOTTESVILLE
605 E MAIN ST
CHARLOTTESVILLE, VA 22902
CONTACT: ROY NESTER
PHONE: (434) 970-3908
EMAIL: nesterr@charlottesville.org

BARRACKS ROAD - S.R. 654 (VARIABLE WIDTH R/W)
BARRACKS RD - WEST CONSTR. ℄
BARRACKS RD - CONSTR. EAST ℄
EMMET STREET CONSTR. ℄
NORTH EMMET ST. U.S. ROUTE 29 (VARIABLE WIDTH R/W)
SEE MATCHLINE BELOW - STA. 207+00
SEE MATCHLINE ABOVE - STA. 207+00
SEE MATCHLINE SHEET 2B(4) - STA. 105+50
TO OFFSITE MANHOLE #1244
TO OFFSITE MANHOLE #2059
TO OFFSITE MANHOLE #2056
PROP. RIGHT-OF-WAY
PROP. TEMPORARY CONSTRUCTION EASEMENT
PROP. PERMANENT TRAFFIC CONTROL EASEMENT
PROP. PERMANENT ACCESS EASEMENT FOR PUBLIC SIDEWALK ACCESS
R/W DEDICATION INSTR. # 2017-00001426
VARIABLE WIDTH R/W DEDICATION PER INSTR. # 2018-00001797
Variable Width Public Access Easement (sidewalk) Instr. # 2018-00001798
10' Public Utility Easement Instr. #: 2018-00001798
DOUBLE 6'X6' BOX CULVERT SHOWN AS PER 2015 SURVEY BY JENNINGS STEPHENSON
1 STORY BRICK VARIABLE WIDTH DRAINAGE & SIDEWALK ESM'T D.B. 243, PG. 250
APPROXIMATE LOCATION ZONE "X-UNSHADED"
APPROXIMATE LOCATION ZONE "A"
FEDERAL REALTY INVESTMENT TRUST D.B. 793, PG. 231 (PARCEL ONE-FIRST) TAX PARCEL: 010001000 1117 N. EMMET ST 39.830 AC.
FEDERAL REALTY INVESTMENT TRUST D.B. 793, PG. 231 (PARCEL ONE-SECOND) TAX PARCEL: 010001000 1117 N. EMMET ST 39.830 AC.
UNITED STATES OF AMERICA D.B. 431, PG. 735 TAX PARCEL: 040001100 1202 N. EMMET ST
MEADOWBROOK SHOPPING CENTER LLC D.B. 685, PG. 683 BLA INSTR. #: 2018-00000073 (TMP 1-4) TAX PARCEL: 010004000 1138 N. EMMET ST 2.505 AC.
MEADOWBROOK CORNER LLC INSTR. #: 2018-00000073 (TMP 1-4.1) TAX PARCEL: 010004100 1170 N. EMMET ST 1.191 AC.
BARRACKS ROW, L.L.C. INSTR. #: 2017-00001425 PLAT: D.B. 248, PG. 551 (LOT 1) TAX PARCEL: 400002100 1200 N. EMMET ST 0.840 AC.
ADONAI DEGEL PROPERTIES, LLC D.B. 1169, PG.170 TAX PARCEL: 400002400 1232 N. EMMET ST 0.309 AC.
GAD, L.L.C. D.B. 853, PG. 22 PLAT: D.B. 364, PG. 190 (LOT 3A) TAX PARCEL: 400002300 0 N. EMMET ST 0.292 AC.
GAD, L.L.C. D.B. 853, PG. 22 PLAT: D.B. 248, PG. 551 (LOT 2) TAX PARCEL: 400002200 1230 N. EMMET ST 0.382 AC.
SCALE 1"=25'
0 25' 50'

SHEET REFERENCES	
ALIGNMENT DATA SHEET	1B
EXIST. CONDITIONS & DEMOLITION PLAN	1C(3)
MAINTENANCE OF TRAFFIC PLANS	1E SERIES
TYPICAL SECTIONS	2A(1) - 2A(2)
DRAINAGE AREA MAPS	2C(1) - 2C(6)
PLAN SHEET	3
BARRACKS ROAD PROFILE SHEET	3A
EMMET STREET PROFILE	3B
UTILITY PLAN SHEET	3C
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
PAVEMENT MARKING & SIGNING PLAN	9(6)
TRAFFIC SIGNAL PLAN	10(3)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS01 - XS13

Project #: NHPP-5104(275)
UPC: 111796

60% PLANS

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TIMMONS GROUP

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BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

EROSION & SEDIMENT CONTROL PLAN

JOB NO. 43569
SHEET NO. 2B(3)

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L:\20\43569-Barracks_Emmet_Imp\DWG\Sheet\CD\43569-20DC-02B(3)x\.dwg | Plotted on 6/18/2021 11:57 AM | by Kyle Hogan

Project #: NHPP-5104(275)
UPC: 111796

60% PLANS

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REVISION DESCRIPTION	DATE
30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS	3/20/2020
60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	7/31/2020
60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	2/12/2021

DATE 06/18/2021
DRAWN BY KJH
DESIGNED BY KJH
CHECKED BY BTC
SCALE 1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

EROSION & SEDIMENT CONTROL PLAN

JOB NO. 43569
SHEET NO. 2B(4)

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SEE MATCHLINE SHEET 2B(3) - STA. 105+50

SEE MATCHLINE SHEET 2B(5) - STA. 112+00

UTILITY OWNERSHIP LIST

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DOMINION ENERGY INC.
1719 HYDRAULIC ROAD
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EMAIL: nathaniel.d.horstick@dominionenergy.com
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EMAIL: amalfi.arias@fiberlight.com

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MARY W. L. COWAN, TRUSTEE OF THE MARY W. L. COWAN INSTR. #: 2012-002771 TAX PARCEL: 400020000 2033 HESSIAN RD D.B. 229, PG. 424, D.B. 987, PG. 722 0.997 AC.

PATTYE H. LEGGETT, TRUSTEE INSTR. #: 2016-00001658 TAX PARCEL: 400033000 2022 HESSIAN RD PLAT:D.B. 122, PG. 52 PLAT:D.B. 158, PG. 337 0.510 AC.

DANIEL M. FELLOWS KATHERINE H. FELLOWS INSTR. #: 2015-00002720 TAX PARCEL: 400034000 2035 HESSIAN RD D.B. 229, PG. 424 0.807 AC.

ROY CANNON THOMAS DEIRDRE B. THOMAS, TRUSTEES INSTR. #: 2017-00004280 (PER DESCRIPTION) TAX PARCEL: 400032000 2018 HESSIAN RD PLAT:D.B. 122, PG. 52 PLAT:D.B. 158, PG. 337 0.868 AC.

ELIZABETH A. M. BOOKER, TRUSTEE D.B. 651, PG. 842 (LOT11) (LESS & EXCEPT: D.B. 892, PG. 324, LOTS 9 & 10) TAX PARCEL: 010005000 0 BARRACKS RD PLAT:D.B. 215, PG. 480 0.830 AC.

TIMOTHY J. HEAPHY LORI J. SHINSEKI D.B. 892, PG. 324 (LOTS 9 &10) TAX PARCEL: 010006000 2028 BARRACKS RD PLAT:D.B. 215, PG. 480 1.890 AC.

MEADOWBROOK CORNER LLC INSTR. #: 2018-00000073 (TMP 1-4.1) TAX PARCEL: 010004100 1170 N. EMMET ST 1.191 AC.

MEADOWBROOK SHOPPING CENTER LLC D.B. 685, PG. 683 BLA INSTR. #: 2018-00000073 (TMP 1-4) TAX PARCEL: 010004000 1138 N. EMMET ST 2.505 AC.

DWELLING FFE=459.27

1 STORY BRICK

VARIABLE WIDTH R/W DEDICATION PER INSTR. #: 2018-00001797

VARIABLE WIDTH R/W DEDICATION PER INSTR. #: 2018-00001799

PROP. PERMANENT ACCESS EASEMENT FOR PUBLIC SIDEWALK ACCESS 10' PUBLIC UTILITY EASEMENT INSTR. #: 2018-00001798

PROP. TEMPORARY CONSTRUCTION EASEMENT

PROP. TEMPORARY CONSTRUCTION EASEMENT

PROP. RIGHT-OF-WAY

PROP. TEMPORARY CONSTRUCTION EASEMENT

APPROX. LOCATION OF A PORTION OF CHARLOTTESVILLE STORM DRAIN EASEMENT PER D.B1223, PG. 470 & 366, PG. 158 VACATED BETWEEN "A" & "B" BY INSTR. #: 2018-00001799

APPROX. LOCATION OF CHARLOTTESVILLE STORM DRAIN EASEMENT PER PLAT: D.B. 366, PG. 158

"A"

"B"

SANITARY SEWER STRUCTURES

#3360
SANITARY MH
RIM=446.76'
INV OUT= 44.01' (6" DI TO 8" TC (TO POSSIBLE BLIND CONNECTION - #3904 TO #7764))

#3904
SANITARY MH
RIM=448.32'
INV IN= 444.00' (8" TC FROM #7770)
INV OUT= 443.96' (8" TC TO #7764)

#7370
RIM=441.53'
SANITARY MH
INV OUT= 439.42' (4" TC TO #8000)

#7764
SANITARY MH
RIM=442.42'
INV IN= 440.02' (4" TC FROM SW)
INV IN= 439.56' (8" TC FROM #3904)
INV OUT= 439.51' (8" DI TO #8001)

#7770
SANITARY MH
RIM=458.62'
INV OUT= 453.89' (8"TC TO #3904)

#7818
SANITARY MH OFFSITE
RIM=461.30'
INV IN= 444.84' (4" TC FROM SE)
INV OUT= 444.87" (6" TC TO #7700)

#8000
RIM=441.14'
SANITARY MH
INV IN= 439.10' (8" DI FROM #7764)
INV IN= 439.12' (4" TC FROM #7370)
INV OUT= 439.07" (8" DI TO #8000)

#10003 (OFFSITE)
SANITARY MH
RIM=446.21'
INV OUT= 433.66' (18" from #6251)

STORM SEWER STRUCTURES

#1874
STORM MH
RIM=441.00'
PIPES RECESSED - INACCESSIBLE)
C/L STRUCTURE= 435.88'

#1907
STORM MH
RIM=441.37'
(PIPES RECESSED - INACCESSIBLE)
C/L STRUCTURE= 436.57'

#2031
GRATE INLET
TOP=442.90'
INV IN= 439.02' (15" RCP FROM A.D.)
INV OUT= 439.01' (15" RCP TO #1907)

#2034
GRATE INLET
TOP=444.05'
INV OUT= 438.23' (30" RCP TO #1907)

#2872
STORM MH
RIM=436.48'
INV IN= 433.09' (12" PVC FROM #7355)
INV OUT= 433.07' (24" RCP TO #7219)

#7201
STORM MH
RIM=435.86'
INV IN= 431.71' (24" RCP FROM #7219)
INV OUT= 431.66' (24" RCP TO NW)

#7219
STORM MH
RIM=436.13'
INV IN= 432.39' (24" RCP FROM #2872)
INV OUT= 432.20' (24" RCP TO #7201)

#7355
GRATE INLET
TOP=435.66'
INV OUT= 433.91' (12" PVC TO #2872)

SHEET REFERENCES	
ALIGNMENT DATA SHEET	1B
EXIST. CONDITIONS & DEMOLITION PLAN	1C(4)
MAINTENANCE OF TRAFFIC PLANS	1E SERIES
TYPICAL SECTIONS	2A(1) - 2A(2)
DRAINAGE AREA MAPS	2C(1) - 2C(6)
PLAN SHEET	4
BARRACKS ROAD PROFILE SHEET	4A
UTILITY PLAN SHEET	4B
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
PAVEMENT MARKING & SIGNING PLAN	9(4)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS01 - XS13

NAD 83 (VA)

SCALE 1"=25'
0 25' 50'

L:\20343569-Barracks_Emmet_Imp\DWG\Sheet\C2\43569-203C-02B(3x).dwg | Plotted on 6/18/2021 11:58 AM | by Kyle Hogan

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DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=25'

SEE MATCHLINE SHEET 2B(4) - STA. 112+00

SEE MATCHLINE SHEET 2B(6) - STA. 118+50

FENCE

FREDERICK G. RIBBLE
ANNE BENEDICTA GOODSON
D.B. 374, PG. 277
PLAT: D.B. 360, PG. 597
TAX PARCEL: 400031000
2014 HESSIAN RD
PLAT:D.B. 158, PG. 337
0.813 AC.

10' STRIP - NF RED-LAND LAND CORPORATION, D.B. 152, PG. 220, PLAT: D.B. 106, PG. 362 PLAT: D.B. 360, PG. 597

4' WIRE FENCE

ANDREW DUNNINGTON
MOLLY DUNNINGTON
INSTR. #: 2012-005046
PLAT: D.B. 106, PG. 362
TAX PARCEL: 400030000
2010 HESSIAN RD
PLAT:D.B. 158, PG. 337
0.759 AC.

LOT 83-B

LOT 83 (IN PART)
"MEADOWBROOK HILLS"
PLAT: D.B. 158, PG. 337
0.710 AC.

6' WOOD FENCE

GREGORY ORR
PATRICA ORR
D.B. 522, PG. 817
PLAT: D.B. 522, PG. 820 (PARCEL B1)
D.B. 457, PG. 777
PLAT: D.B. 126, PG. 181 (LOT 83-B)
TAX PARCEL: 400028000
2006 HESSIAN RD
PLAT:D.B. 158, PG. 337
0.710 AC.

J. DAVID SUMMERS
NANCY E. SUMMERS
D.B. 522, PG. 817
PLAT: D.B. 522, PG. 820 (PARCEL B2)
D.B. 451, PG. 36
PLAT: D.B. 451, PG. 38 (PARCEL A)
TAX PARCEL: 400029000
1201 BLUE RIDGE RD
PLAT:D.B. 158, PG. 337
1.017 AC.

PARCEL A
LOT 84 (IN PART)
"MEADOWBROOK HILLS"
1.017 AC.

PIPE(F)

MON(F) IRON BAR

ROD(F)

BLUE RIDGE ROAD
(VARIABLE WIDTH R/W)

L.S.A.

ROD(F) DISTURBED

ROD(F)

ROD(F)

ROD(F)

Ex. R/W

Ex. R/W

MON(F) DISTURBED

BARRACKS ROAD S.R. 654

BARRACKS RD - EAST CONSTR. ℄

BARRACKS ROAD S.R. 654

12" PPP

12" PPP

12" PPP

LOD

RCD

TP

IP-A

PROP. RIGHT-OF-WAY

PROP. TEMPORARY CONSTRUCTION EASEMENT

EXISTING 1/2" PE GAS SERVICE (SHOWN PER CITY GIS NOT FIELD LOCATED)

PROP. RIGHT-OF-WAY

PROP. PERMANENT DOMINION ENERGY UTILITY EASEMENT

PROP. TEMPORARY CONSTRUCTION EASEMENT

EXISTING 1/2" PE GAS SERVICE

EXISTING 1/2" PE GAS SERVICE

6" PVC
WV IN=481.59'
WV OUT=481.57'

L.S.A.
GREGORY A. MENKE
CHRISTINA P. MENKE
D.B. 430, PG. 456 (LOTS 7 & 8)
PLAT: D.B. 256, PG. 347
TAX PARCEL: 010007000
1930 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.069 AC.

TIMOTHY J. HEAPHY
LORI J. SHINSEKI
D.B. 892, PG. 324 (LOTS 9 &10)
TAX PARCEL: 010006000
2028 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.890 AC.

GREGORY A. MENKE
CHRISTINA P. MENKE
D.B. 430, PG. 456 (LOTS 7 & 8)
PLAT: D.B. 256, PG. 347
TAX PARCEL: 010007000
1930 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.069 AC.

THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14 (LOT 6 & NW 25' OF LOT 5)
TAX PARCEL: 010008000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.369 AC.

THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14 (LOT 6 & NW 25' OF LOT 5)
TAX PARCEL: 010008000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.369 AC.

THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14 (LOT 6 & NW 25' OF LOT 5)
TAX PARCEL: 010009000
1920 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.026 AC.

THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14 (LOT 6 & NW 25' OF LOT 5)
TAX PARCEL: 010009000
1920 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.026 AC.

THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14
(LOT 3)
TAX PARCEL: 020002000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
0.574 AC.

THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14
(LOT 3)
TAX PARCEL: 020001000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.148 AC.

SCALE 1"=25'
0 25' 50'

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BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

EROSION & SEDIMENT CONTROL PLAN

JOB NO. 43569

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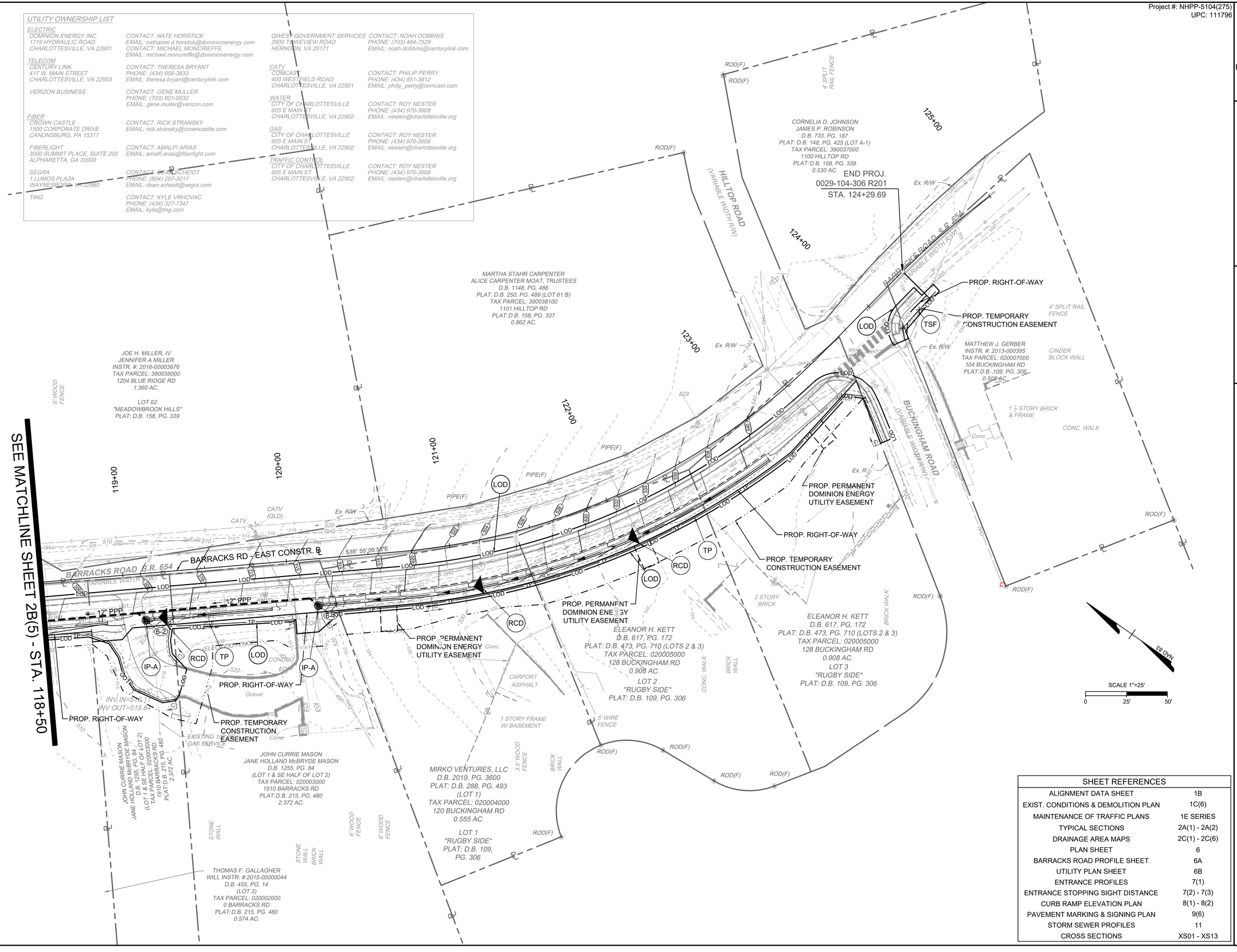

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SCALE: 1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

EROSION & SEDIMENT CONTROL PLAN

JOB NO. 43569
SHEET NO. 2B(6)

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Project #: NHPP-5104(275)
UPC: 111796

APPROXIMATE AREA OF PROJECT
(TOTAL DISTURBED AREA = 1.59 ACRES)

DRAINAGE AREA TO OUTFALL = 860 ACRES

NAD 83

SCALE 1"=400'
0 400' 800'

60% PLANS

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TEL 804.200.6500 FAX 804.560.1016 www.timmons.com

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DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=400'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

OUTFALL DRAINAGE AREA MAP

JOB NO. 43569
SHEET NO. 2C(1)

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Project #: NHPP-5104(275)
UPC: 111796

60% PLANS

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DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=100'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

SYSTEM DRAINAGE AREA MAP

JOB NO. 43569
SHEET NO. 2C(2)

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DRAINAGE AREA LEGEND

- # | C / X.XX Ac. — DRAINAGE AREA LABEL (NUMBER, C FACTOR, AND AREA)
- DRAINAGE AREA DIVIDE
- OUTFALL DIVIDE
- OVERLAND FLOW PATH
- CHANNEL FLOW PATH

NAD 83

SCALE 1"=100'
0 100' 200'

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STORM SEWER STRUCTURES

#1107
STORM MH
RIM=456.13'
INV IN= 451.15' (30" RCP FROM #1487)
INV IN= 451.23' (18" RCP FROM #1106)
INV OUT= 450.98' (30" RCP TO #1244)

#1244
STORM MH
RIM=456.48'
INV IN= 446.62' (30" RCP FROM #7458)
INV OUT= 446.63' (30" RCP TO #1107)

#1488
CATCH BASIN 12inDIA
TOP=443.20'
INV IN= 441.31' (10" PVC FROM #1491)

#1491
RIM=444.41'
INV IN= 435.62' (15" RCP FROM #7702)
INV IN= 441.38' (10" PVC FROM #1488)
INV OUT= 435.59' (15" RCP TO POSSIBLE 6' X 6' CULVERT)

#1810
STORM MH
RIM=433.34'
INV IN= 424.41 (36" RCP FROM #1853)
INV IN= 424.19' (36" RCP TO A.D.)

#1853
STORM MH
RIM=442.14'
INV IN= 433.99' (36" RCP FROM #1874)
INV OUT= 433.92' (36" RCP TO #1810)

#1988
GRATE INLET
TOP=441.31'
(NO PIPES VISIBLE - POSSIBLE DROP INTO 6' X 6' CHAMBER)
0.8 X 3.0 OPENING IN STRUCTURE = 438.39'

#2056
STORM MH
RIM=465.58'
INV OUT= 461.45' (15" RCP TO #7702)

#2059
GRATE INLET
TOP=445.68'
INV IN= 442.69' (21" RCP FROM A.D.)
INV OUT= 441.48' (24" RCP TO #7458)

#6361
STORM MH
RIM=443.09'
INV IN= 440.01' (15" RCP FROM #6366)
INV OUT= 439.97' (18" RCP TO #7567)

#6366
GRATE INLET
TOP=443.28'
(FULL OF DIRT- PIPES INACCESSIBLE)
TOP OF DIRT = 442.4'±

#6472
STORM MH
RIM=443.12'
INV OUT= 439.87' (15" RCP TO #6515)

#6515
RIM=441.44'
STORM MH
INV IN= 438.96' (15" RCP FROM #6472)
INV OUT= 438.95' (TWIN 12" IRON TRANSITION TO 18" RCP TO #8002)

#6579
RIM=441.76'
STORM MH
INV IN= 433.83' (24" RCP FROM #7459)
INV IN= 435.57' (24" RCP FROM A.D.)
INV OUT= 433.81' (30" RCP TO #8002)

#6655
STORM MH
RIM=441.96'
INV OUT= 435.78' (18" RCP TO #8002)

#6697
STORM MH
RIM=443.60'
INV IN= 441.56' (8" IRON FROM NW)
INV OUT= 438.97' (15" RCP TO SW)

#6860
STORM MH
RIM=444.40'
INV IN= 440.97 (15" RCP FROM SE)
INV OUT= 441.05' (15" RCP TO #7459)

#7458
STORM MH
RIM=445.67'
INV IN= 439.91' (24" RCP FROM NE)
INV OUT= 439.97' (24" RCP TO #7459)

#7459
STORM MH
RIM=444.48'
INV IN= 439.11' (24" RCP FROM #7458)
INV IN= 438.37' (15" RCP FROM #6860)
INV OUT= 435.21' (24" RCP TO #6579)

#7461
GRATE INLET
TOP=445.09'
INV OUT= 442.15' (12" RCP TO POSSIBLE BLIND CONNECTION BETWEEN #7458 - #2059)

#7507
GRATE INLET
TOP=443.73'
INV OUT= 441.45' (15" RCP TO #6361)

#7567
STORM MH
RIM=442.50'
INV IN= 438.10' (18" RCP FROM #6361)
INV OUT= 438.14' (18" RCP TO #7599)

#7599
STORM MH
RIM=441.96'
INV IN= 438.56' (9" PVC FROM SW)
INV IN= 437.24' (18" RCP FROM #7567)
INV OUT= 437.15' (18" RCP TO #8002)

#7702
STORM MH
RIM=451.36'
INV IN= 447.45' (15" RCP FROM #2056)
INV OUT= 447.28' (15" RCP TO #1491)

#8002
RIM=441.71'
STORM MH
INV IN= 433.34' (24" RCP FROM #6579)
INV IN= 433.58' (18" RCP FROM #6655)
INV IN= 435.74' (18" RCP FROM 6515)
INV OUT= 433.16' (30" RCP TO #87003)

#8003
RIM=441.68'
STORM MH
INV IN= 431.87' (30" RCP FROM #8002)
INV OUT= 431.55' (36" RCP TO SE)

SANITARY SEWER STRUCTURES

#6251
SANITARY MH
RIM=444.94'
INV IN= 435.53' (18" TC FROM #6516)
INV IN= 435.44' (UNK SIZE & MATERIAL FROM #7533)
INV IN= 435.53' (UNK SIZE & MATERIAL FROM #7816)
INV OUT= 435.44' (18" TC TO #10003-OFFSITE)

#6516
SANITARY MH
RIM=441.85'
INV IN= 437.31' (18" DI FROM #7814)
INV IN= 437.35' (18" TC FROM #7460)
INV IN= 437.40' (8" DI FROM #8004)
INV IN= 437.84' (6" DI FROM NW)
INV OUT= 437.26' (18" TC TO #6251)

#6859
SANITARY MH
RIM=445.98'
INV IN= 437.87' (15" TC FROM NW-OFFSITE)
INVE OUT= 438.08' (15" TC TO #7460

#7460
SANITARY MH
RIM=444.15'
INV IN= 437.06' (15" TC FROM #6859)
INV OUT= 437.21' (18" TC TO #6516)

#7533
SANITARY MH
RIM=444.13'
INV OUT= 436.87' (UNK SIZE & MATERIAL TO #6251)

#7700
SANITARY MH
RIM=456.32'
INV IN= 444.48' (6" TC FROM #7818)
INV IN= 451.45' (6" TC FROM #7701)
INV OUT= 444.50' (8"TC TO #7817)

#7701
SANITARY MH
RIM=456.15'
INV IN= 451.85' (6" TC FROM SW)
INV OUT= 451.72' (6" TC TO #7700)

#7814
SANITARY MH
RIM=444.81'
INV IN= 437.46' (18" DI FROM NW)
INV IN= 440.42' (4" DI FROM SW)
INV OUT= 437.53' (18" DI TO #6516)

#7816
DRY SANITARY MH
RIM=444.04'
C/L ELEVATION= 440.10' (PIPES SURCHARGED W/DIRT)

#7817
SANITARY MH OFFSITE
RIM=454.21'
INV IN= 441.93' (18" TC TO NW)
INV IN= 443.32' (8" TC FROM #7700)
INV OUT= 441.87' (18" TC TO NW)

#8001
RIM=441.71'
SANITARY MH
INV IN= 438.24' 8" DI FROM #8000)
INV IN= 438.52' (6" DI FROM SW)
INV OUT= 438.20' (8" DI TO #8004)

#8004
RIM=441.68'
SANITARY MH
INV IN= 437.38' (8" DI FROM #8001)
INV OUT= 437.40' (8" DI TO #6516)

UTILITY OWNERSHIP LIST

ELECTRIC
DOMINION ENERGY INC.
1719 HYDRAULIC ROAD
CHARLOTTESVILLE, VA 22901
CONTACT: NATE HORSTICK
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CONTACT: MICHAEL MONCRIEFFE
EMAIL: michael.moncreiffe@dominionenergy.com

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VERIZON BUSINESS
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EMAIL: gene.muller@verizon.com

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FIBERLIGHT
3000 SUMMIT PLACE, SUITE 200
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TING
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GAS
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PHONE: (434) 970-3908
EMAIL: nesterr@charlottesville.org

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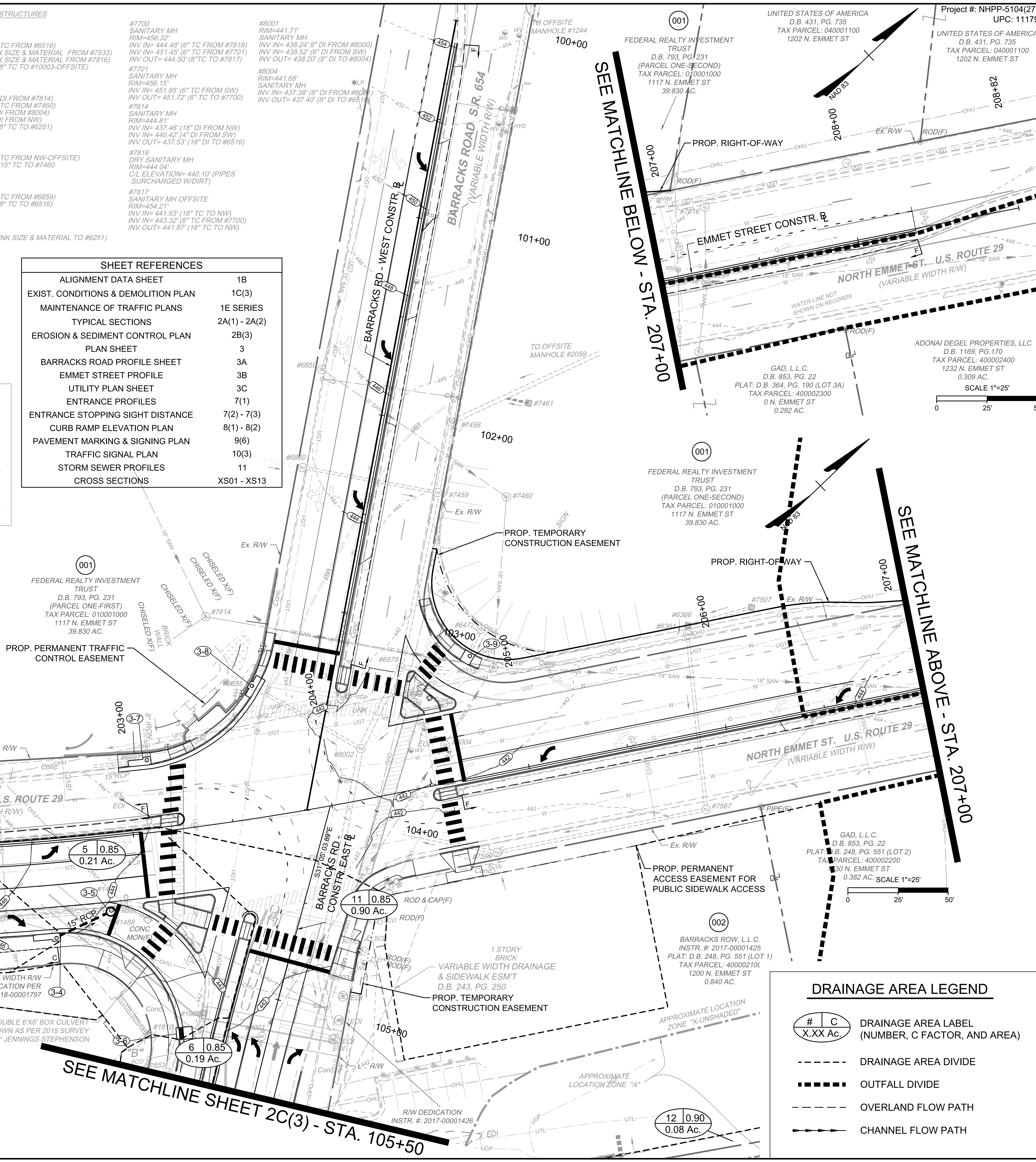
CONTACT: ROY NESTER
PHONE: (434) 970-3908
EMAIL: nesterr@charlottesville.org

SHEET REFERENCES	
ALIGNMENT DATA SHEET	1B
EXIST. CONDITIONS & DEMOLITION PLAN	1C(3)
MAINTENANCE OF TRAFFIC PLANS	1E SERIES
TYPICAL SECTIONS	2A(1) - 2A(2)
EROSION & SEDIMENT CONTROL PLAN	2B(3)
PLAN SHEET	3
BARRACKS ROAD PROFILE SHEET	3A
EMMET STREET PROFILE	3B
UTILITY PLAN SHEET	3C
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
PAVEMENT MARKING & SIGNING PLAN	9(6)
TRAFFIC SIGNAL PLAN	10(3)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS01 - XS13



DRAINAGE AREA LEGEND

Symbol	Meaning
# C / X.XX Ac.	DRAINAGE AREA LABEL (NUMBER, C FACTOR, AND AREA)
- - - - - -	DRAINAGE AREA DIVIDE
■ ■ ■ ■ ■	OUTFALL DIVIDE
— — — — —	OVERLAND FLOW PATH
►►►►	CHANNEL FLOW PATH

Project #: NHPP-5104(275)
UPC: 111796

60% PLANS

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CHECKED BY: BTC
SCALE: 1"=25'

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BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

DRAINAGE AREA MAP

JOB NO. 43569
SHEET NO. 2C(3)

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TELECOM		**CATV**	
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VERIZON BUSINESS	CONTACT: GENE MULLER PHONE: (703) 801-9532 EMAIL: gene.muller@verizon.com	**WATER**	
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FIBER		**GAS**	
CROWN CASTLE 1500 CORPORATE DRIVE CANONSBURG, PA 15317	CONTACT: RICK STRANSKY EMAIL: rick.stransky@crowncastle.com	CITY OF CHARLOTTESVILLE 605 E MAIN ST CHARLOTTESVILLE, VA 22902	CONTACT: ROY NESTER PHONE: (434) 970-3908 EMAIL: nesterr@charlottesville.org
FIBERLIGHT 3000 SUMMIT PLACE, SUITE 200 ALPHARETTA, GA 30009	CONTACT: AMALFI ARIAS EMAIL: amalfi.arias@fiberlight.com	**TRAFFIC CONTROL**	
		CITY OF CHARLOTTESVILLE 605 E MAIN ST CHARLOTTESVILLE, VA 22902	CONTACT: ROY NESTER PHONE: (434) 970-3908 EMAIL: nesterr@charlottesville.org
SEGRA 1 LUMOS PLAZA WAYNESBORO, VA 22980	CONTACT: DEAN SCHEIDT PHONE: (804) 297-3017 EMAIL: dean.scheidt@segra.com		
TING	CONTACT: KYLE VRHOVAC PHONE: (434) 327-7347 EMAIL: kyle@ting.com		

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SHEET NO.	2C(4)

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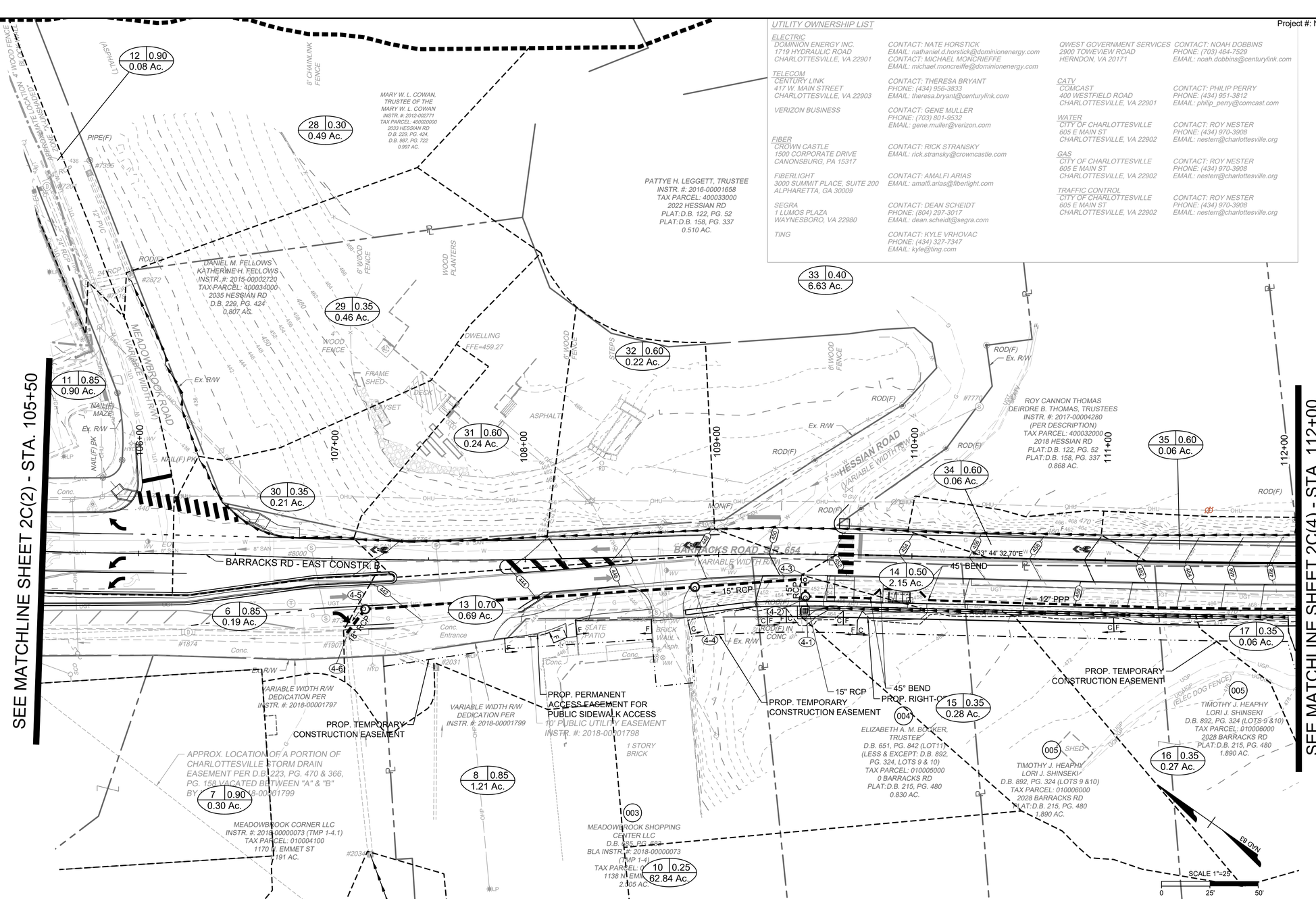
DRAINAGE AREA MAP



SHEET REFERENCES	
ALIGNMENT DATA SHEET	1B
EXIST. CONDITIONS & DEMOLITION PLAN	1C(4)
MAINTENANCE OF TRAFFIC PLANS	1E SERIES
TYPICAL SECTIONS	2A(1) - 2A(2)
EROSION & SEDIMENT CONTROL PLAN	2B(4)
PLAN SHEET	4
BARRACKS ROAD PROFILE SHEET	4A
UTILITY PLAN SHEET	4B
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
PAVEMENT MARKING & SIGNING PLAN	9(4)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS01 - XS13

DRAINAGE AREA LEGEND

- # | C / X.XX Ac. — DRAINAGE AREA LABEL (NUMBER, C FACTOR, AND AREA)
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- OUTFALL DIVIDE
- OVERLAND FLOW PATH
- CHANNEL FLOW PATH

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60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	2/12/2021

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=25'

SEE MATCHLINE SHEET 2C(3) - STA. 112+00

SEE MATCHLINE SHEET 2C(5) - STA. 118+50

FREDERICK G. RIBBLE
ANNE BENEDICTA GOODSON
D.B. 374, PG. 277
PLAT: D.B. 360, PG. 597
TAX PARCEL: 400031000
2014 HESSIAN RD
PLAT:D.B. 158, PG. 337
0.813 AC.

ANDREW DUNNINGTON
MOLLY DUNNINGTON
INSTR. #: 2012-005046
PLAT: D.B. 106, PG. 362
TAX PARCEL: 400030000
2010 HESSIAN RD
PLAT:D.B. 158, PG. 337
0.759 AC.

GREGORY ORR
PATRICA ORR
D.B. 522, PG. 817
PLAT: D.B. 522, PG. 820 (PARCEL B1)
D.B. 457, PG. 777
PLAT: D.B. 126, PG. 181 (LOT 83-B)
TAX PARCEL: 400028000
2006 HESSIAN RD
PLAT:D.B. 158, PG. 337
0.710 AC.

LOT 83-B

LOT 83 (IN PART)
"MEADOWBROOK HILLS"
PLAT: D.B. 158, PG. 337
0.710 AC.

J. DAVID SUMMERS
NANCY E. SUMMERS
D.B. 522, PG. 817
PLAT: D.B. 522, PG. 820 (PARCEL B2)
D.B. 451, PG. 36
PLAT: D.B. 451, PG. 38 (PARCEL A)
TAX PARCEL: 400029000
1201 BLUE RIDGE RD
PLAT:D.B. 158, PG. 337
1.017 AC.

PARCEL A
LOT 84 (IN PART)
"MEADOWBROOK HILLS"
1.017 AC.

10' STRIP - NF RED-LAND LAND CORPORATION, D.B. 152, PG. 220, PLAT: D.B. 106, PG. 362 PLAT: D.B. 360, PG. 597

FENCE
4' WIRE FENCE
6' WOOD FENCE
(ELEC DOG FENCE)

ROD(F) DISTURBED
ROD(F)
PIPE(F)
MON(F) IRON BAR
MON(F) DISTURBED

BLUE RIDGE ROAD
(VARIABLE WIDTH R/W)

BARRACKS ROAD S.R. 654
(VARIABLE WIDTH R/W)

BARRACKS RD - EAST CONSTR. ℄

BARRACKS ROAD S.R. 654
(VARIABLE WIDTH R/W)

Ex. R/W

PROP. RIGHT-OF-WAY

PROP. TEMPORARY CONSTRUCTION EASEMENT

PROP. PERMANENT DOMINION ENERGY UTILITY EASEMENT

PROP. TEMPORARY CONSTRUCTION EASEMENT

EXISTING 1/2" PE GAS SERVICE

EXISTING 1/2" PE GAS SERVICE (DOWN PER CITY GIS DATA - NOT FIELD LOCATED)

EXISTING 1/2" PE GAS SERVICE

6" PVC
INV IN=481.59'
INV OUT=481.57'

12" PPP

ASPHALT

Gravel

Conc.

L.S.A.

14	0.50	2.15 Ac.
18	0.35	0.03 Ac.
19	0.35	0.02 Ac.
20	0.35	0.01 Ac.
21	0.35	0.01 Ac.
22	0.35	0.15 Ac.
23	0.35	0.03 Ac.
33	0.40	6.63 Ac.
36	0.60	0.05 Ac.
37	0.60	0.05 Ac.
38	0.60	0.07 Ac.
39	0.60	0.05 Ac.
40	0.60	0.05 Ac.
41	0.60	0.05 Ac.
42	0.40	6.17 Ac.
19	0.35	0.06 Ac.
10	0.25	62.84 Ac.

006 GREGORY A. MENKE
CHRISTINA P. MENKE
D.B. 430, PG. 456 (LOTS 7 & 8)
PLAT: D.B. 256, PG. 347
TAX PARCEL: 010007000
1930 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.069 AC.

005 TIMOTHY J. HEAPHY
LORI J. SHINSEKI
D.B. 892, PG. 324 (LOTS 9 &10)
PLAT: D.B. 06, PG. 06000
2028 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.890 AC.

007 THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14 (LOT 6 & NW 25' OF LOT 5)
TAX PARCEL: 010008000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.369 AC.

007 THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14 (LOT 6 & NW 25' OF LOT 5)
TAX PARCEL: 010009000
1920 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.026 AC.

007 THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14
(LOT 3)
TAX PARCEL: 020001000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.148 AC.

007 THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14
(LOT 3)
TAX PARCEL: 020002000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
0.574 AC.

SCALE 1"=25'
0 25' 50'

UTILITY OWNERSHIP LIST

ELECTRIC
DOMINION ENERGY INC.
1719 HYDRAULIC ROAD
CHARLOTTESVILLE, VA 22901
CONTACT: NATE HORSTICK
EMAIL: nathaniel.d.horstick@dominionenergy.com
CONTACT: MICHAEL MONCRIEFFE
EMAIL: michael.moncrieffe@dominionenergy.com

TELECOM
CENTURY LINK
417 W. MAIN STREET
CHARLOTTESVILLE, VA 22903
CONTACT: THERESA BRYANT
PHONE: (434) 956-3833
EMAIL: theresa.bryant@centurylink.com

VERIZON BUSINESS
CONTACT: GENE MULLER
PHONE: (703) 801-9532
EMAIL: gene.muller@verizon.com

FIBER
CROWN CASTLE
1500 CORPORATE DRIVE
CANONSBURG, PA 15317
CONTACT: RICK STRANSKY
EMAIL: rick.stransky@crowncastle.com

FIBERLIGHT
3000 SUMMIT PLACE, SUITE 200
ALPHARETTA, GA 30009
CONTACT: AMALFI ARIAS
EMAIL: amalfi.arias@fiberlight.com

SEGRA
1 LUMOS PLAZA
WAYNESBORO, VA 22980
CONTACT: DEAN SCHEIDT
PHONE: (804) 297-3017
EMAIL: dean.scheidt@segra.com

TING
CONTACT: KYLE VRHOVAC
PHONE: (434) 327-7347
EMAIL: kyle@ting.com

QWEST GOVERNMENT SERVICES
2900 TOWEVIEW ROAD
HERNDON, VA 20171
CONTACT: NOAH DOBBINS
PHONE: (703) 464-7529
EMAIL: noah.dobbins@centurylink.com

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COMCAST
400 WESTFIELD ROAD
CHARLOTTESVILLE, VA 22901
CONTACT: PHILIP PERRY
PHONE: (434) 951-3812
EMAIL: philip_perry@comcast.com

WATER
CITY OF CHARLOTTESVILLE
605 E MAIN ST
CHARLOTTESVILLE, VA 22902
CONTACT: ROY NESTER
PHONE: (434) 970-3908
EMAIL: nesterr@charlottesville.org

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605 E MAIN ST
CHARLOTTESVILLE, VA 22902
CONTACT: ROY NESTER
PHONE: (434) 970-3908
EMAIL: nesterr@charlottesville.org

SHEET REFERENCES

ALIGNMENT DATA SHEET	1B
EXIST. CONDITIONS & DEMOLITION PLAN	1C(5)
MAINTENANCE OF TRAFFIC PLANS	1E SERIES
TYPICAL SECTIONS	2A(1) - 2A(2)
EROSION & SEDIMENT CONTROL PLAN	2B(5)
PLAN SHEET	5
BARRACKS ROAD PROFILE SHEET	5A
UTILITY PLAN SHEET	5B
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
PAVEMENT MARKING & SIGNING PLAN	9(5)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS01 - XS13

DRAINAGE AREA LEGEND

- # | C / X.XX Ac. — DRAINAGE AREA LABEL (NUMBER, C FACTOR, AND AREA)
- DRAINAGE AREA DIVIDE
- OUTFALL DIVIDE
- OVERLAND FLOW PATH
- CHANNEL FLOW PATH

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

DRAINAGE AREA MAP

JOB NO. 43569
SHEET NO. 2C(5)

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Project #: NHPP-5104(275)
UPC: 111796

60% PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

THIS DRAWING PREPARED AT THE
CORPORATE OFFICE
1001 Boulders Parkway, Suite 300 | Richmond, VA 23225
TEL 804.200.6500 FAX 804.560.1016 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

Site Development | Residential | Infrastructure | Technology

REVISION DESCRIPTION	DATE
30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS	3/20/2020
60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	7/31/2020
60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	2/12/2021

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

DRAINAGE AREA MAP

JOB NO. 43569
SHEET NO. 2C(6)

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EMAIL: nesterr@charlottesville.org

SEE MATCHLINE SHEET 2C(5) - STA. 118+50

BARRACKS ROAD, S.R. 654 (VARIABLE WIDTH R/W)
BARRACKS RD - EAST CONSTR. ℄
HILLTOP ROAD (VARIABLE WIDTH R/W)
BUCKINGHAM ROAD (VARIABLE WIDTH R/W)
S39° 55' 09.53"E

42 | 0.40 — 6.17 Ac.
43 | 0.60 — 0.06 Ac.
44 | 0.30 — 0.05 Ac.
45 | 0.70 — 0.09 Ac.
46 | 0.70 — 0.12 Ac.
47 | 0.70 — 0.04 Ac.
14 | 0.50 — 2.15 Ac.
23 | 0.35 — 0.03 Ac.
24 | 0.35 — 0.06 Ac.
25 | 0.35 — 0.02 Ac.
26 | 0.35 — 0.01 Ac.
27 | 0.35 — 0.01 Ac.
10 | 0.25 — 62.84 Ac.
10 | 0.25 — 62.84 Ac.

MARTHA STAHR CARPENTER
ALICE CARPENTER MOAT, TRUSTEES
D.B. 1148, PG. 486
PLAT: D.B. 250, PG. 489 (LOT 61 B)
TAX PARCEL: 390038100
1101 HILLTOP RD
PLAT:D.B. 158, PG. 337
0.862 AC.

JOE H. MILLER, IV
JENNIFER A MILLER
INSTR. #: 2016-00003676
TAX PARCEL: 390038000
1204 BLUE RIDGE RD
1.360 AC.

LOT 62
"MEADOWBROOK HILLS"
PLAT: D.B. 158, PG. 339

CORNELIA D. JOHNSON
JAMES P. ROBINSON
D.B. 733, PG. 187
PLAT: D.B. 148, PG. 425 (LOT A-1)
TAX PARCEL: 390037000
1100 HILLTOP RD
PLAT:D.B. 158, PG. 339
0.530 AC.

END PROJ.
0029-104-306 R201
STA. 124+29.69

TIE PROP. CURB TO EX. CURB AND PROP. SIDEWALK TO EX. SIDEWALK
PROP. RIGHT-OF-WAY
PROP. TEMPORARY CONSTRUCTION EASEMENT
TIE TO EX. CURB AND GUTTER
PROP. PERMANENT DOMINION ENERGY UTILITY EASEMENT
PROP. TEMPORARY CONSTRUCTION EASEMENT
PROP. FENCE RELOCATION (TYPE/HEIGHT TO BE DETERMINED)
PROP. PERMANENT DOMINION ENERGY UTILITY EASEMENT
PROP. PERMANENT DOMINION ENERGY UTILITY EASEMENT
PROP. RIGHT-OF-WAY
PROP. TEMPORARY CONSTRUCTION EASEMENT
PROP. RIGHT-OF-WAY

011 MATTHEW J. GERBER
INSTR. #: 2013-000395
TAX PARCEL: 020007000
104 BUCKINGHAM RD
PLAT:D.B. 109, PG. 306
0.509 AC.

010 ELEANOR H. KETT
D.B. 617, PG. 172
PLAT: D.B. 473, PG. 710 (LOTS 2 & 3)
TAX PARCEL: 020005000
128 BUCKINGHAM RD
0.908 AC.
LOT 3
"RUGBY SIDE"
PLAT: D.B. 109, PG. 306

010 ELEANOR H. KETT
D.B. 617, PG. 172
PLAT: D.B. 473, PG. 710 (LOTS 2 & 3)
TAX PARCEL: 020005000
128 BUCKINGHAM RD
0.908 AC.
LOT 2
"RUGBY SIDE"
PLAT: D.B. 109, PG. 306

009 MIRKO VENTURES, LLC
D.B. 2019, PG. 3600
PLAT: D.B. 288, PG. 493
(LOT 1)
TAX PARCEL: 020004000
120 BUCKINGHAM RD
0.555 AC.
LOT 1
"RUGBY SIDE"
PLAT: D.B. 109, PG. 306

008 JOHN CURRIE MASON
JANE HOLLAND McBRYDE MASON
D.B. 1255, PG. 84
(LOT 1 & SE HALF OF LOT 2)
TAX PARCEL: 020003000
1910 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.372 AC.

007 THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14
(LOT 3)
TAX PARCEL: 020002000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
0.574 AC.

6' WOOD FENCE
4' SPLIT RAIL FENCE
CINDER BLOCK WALL
1 ½ STORY BRICK & FRAME
CONC. WALK
2 STORY BRICK
BRICK WALK
1 STORY FRAME W/ BASEMENT
5' WIRE FENCE
3.5' WOOD FENCE
BRICK WALL
STONE WALL
6' WOOD FENCE
CARPORT ASPHALT
12" PPP
INV IN=515.11'
INV OUT=515.01'
EXISTING 1" GAS SERVICE

SCALE 1"=25'
0 25' 50'
NAD 83

SHEET REFERENCES	
ALIGNMENT DATA SHEET	1B
EXIST. CONDITIONS & DEMOLITION PLAN	1C(6)
MAINTENANCE OF TRAFFIC PLANS	1E SERIES
TYPICAL SECTIONS	2A(1) - 2A(2)
EROSION & SEDIMENT CONTROL PLAN	2B(6)
PLAN SHEET	6
BARRACKS ROAD PROFILE SHEET	6A
UTILITY PLAN SHEET	6B
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
PAVEMENT MARKING & SIGNING PLAN	9(6)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS01 - XS13

DRAINAGE AREA LEGEND

- # | C / X.XX Ac. — DRAINAGE AREA LABEL (NUMBER, C FACTOR, AND AREA)
- DRAINAGE AREA DIVIDE
- OUTFALL DIVIDE
- OVERLAND FLOW PATH
- CHANNEL FLOW PATH

STORMWATER COMPLIANCE APPROACH

Project #: NHPP-5104(275)
UPC: 111796

WATER QUANTITY

For stormwater quantity, this project will need to meet the requirements of 9VAC25-870-66, "Water Quantity." For water quantity, two criteria must be analyzed and met, channel protection and flood protection. Channel protection requires an analysis of smaller storm events (1-year and 2-year storms) in an effort to prevent increased channel erosion. Flood protection generally requires an analysis of larger storm events (10-year) in an effort to prevent downstream flooding.

For this project, there is currently an existing storm system in Barracks Road between CVS and CAVA that captures the existing flow from the project area. Since this storm system was recently installed, it is anticipated that this system will be adequate for the flow from the proposed condition. Based on preliminary calculations and the existing steep grade, up Barracks Road to the east, the system will not need to be extended up Barracks Road for this project. The storm system will only need to be extended up Barracks Road to the east if on-site quality treatment measures are used. The existing storm system outlets into a large underground culvert system that runs from John Paul Jones Arena under Barracks Road Shopping Center, Emmet Street, and Barracks Road to daylight at Meadow Creek just to the northeast of this project. The total drainage area to the point of outfall is around 860 acres (see Stormwater Management Treatment Options Analysis Report). The project's limits of disturbance are 1.59 acres.

Therefore, the site's contributing drainage area is equal to approximately 0.18% of the total drainage area within the large culvert. This satisfies the Limits of Analysis requirement for both Channel Projection and Flood Protection. Channel protection requirements are satisfied per 9VAC25-870-66, Section B, parts 1 and 4, concentrated stormwater is released into a manmade conveyance system at a limits of analysis point where the site's contributing drainage area is less than or equal to 1.0% of the total watershed. Flood protection is satisfied per 9VAC25-870-66 Section C part 3. Concentrated stormwater is released into an adequate manmade conveyance system at a limits of analysis point where the site's contributing drainage area is less than or equal to 1.0% of the total watershed.

WATER QUALITY

For Stormwater Quality this project will need to meet the requirements of 9VAC25-870-63. Water Quality Design Criteria Requirements. The estimated total disturbance for this project is 1.59 acres with the pre-developed condition having 0.74 acres of managed turf and 0.85 acres of impervious, with the post-developed condition having 0.55 acres of managed turf and 1.04 acres of impervious. Per the bottom of the first page of the Virginia Runoff Reduction Method ReDev Compliance Spread Sheet, this will require Stormwater Quality Treatment that reduces phosphorus nutrient runoff of 0.76 lb/year.

Per 9VAC25-870-69 offsite stormwater credits from a DEQ approved credit bank within a nearby drainage area can be purchased in place of providing onsite treatment for projects of this size. Offsite credits must come from a credit bank that has been approved and certified by DEQ. All credits must be perpetual, which means the purchase is a onetime cost for the phosphorus credit forever and all future maintenance and inspection of the offsite facility is the responsibility of the credit bank. Credit purchase is a onetime process with a small amount of paperwork during review and approval after which there is no future cost, maintenance or inspection required from the purchaser.

Due to the limited right of way and the constraints of surrounding developed areas, the cost advantages of purchasing offsite credits is approximately 20 times less than onsite options. Offsite credits also eliminate the future inspection and maintenance cost and administrative burden for the City which would be required for onsite options.

It is intended that water quality requirements for this project will be addressed via the purchase of 0.76 lb/year of offsite phosphorous nutrient credits from a DEQ approved credit bank (TBD).

DEQ Virginia Runoff Reduction Method Re-Development Compliance Spreadsheet - Version 3.0

☐ 2011 BMP Standards and Specifications ☑ 2013 Draft BMP Standards and Specifications

CLEAR ALL

data input cells
constant values
calculation cells
final results

Project Name:	Barracks Road Intersection Improvements
Date:	2/12/2021
Linear Development Project?	Yes

Site Information

Post-Development Project (Treatment Volume and Loads)

Enter Total Disturbed Area *(acres)* → 1.59

Check:
BMP Design Specifications List: 2013 Draft Stds & Specs
Linear project? Yes
Land cover areas entered correctly? ✓
Total disturbed area entered? ✓

Maximum reduction required:	20%
The site's net increase in impervious cover (acres) is:	0.19
Post-Development TP Load Reduction for Site (lb/yr):	0.76

Pre-ReDevelopment Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) – undisturbed forest/open space					0.00
Managed Turf (acres) – disturbed, graded for yards or other turf to be mowed/managed		0.55		0.19	0.74
Impervious Cover (acres)		0.50		0.35	0.85
					1.59

Post-Development Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) – undisturbed, protected forest/open space or reforested land					0.00
Managed Turf (acres) – disturbed, graded for yards or other turf to be mowed/managed		0.38		0.17	0.55
Impervious Cover (acres)		0.67		0.37	1.04
Area Check	**OK.**	**OK.**	**OK.**	**OK.**	1.59

Constants

Annual Rainfall (inches)	43
Target Rainfall Event (inches)	1.00
Total Phosphorus (TP) EMC (mg/L)	0.26
Total Nitrogen (TN) EMC (mg/L)	1.86
Target TP Load (lb/acre/yr)	0.41
Pj (unitless correction factor)	0.90

Runoff Coefficients (Rv)

	A Soils	B Soils	C Soils	D Soils
Forest/Open Space	0.02	0.03	0.04	0.05
Managed Turf	0.15	0.20	0.22	0.25
Impervious Cover	0.95	0.95	0.95	0.95

LAND COVER SUMMARY – PRE-REDEVELOPMENT

Land Cover Summary-Pre		
Pre-ReDevelopment	**Listed**	**Adjusted***
Forest/Open Space Cover (acres)	0.00	0.00
Weighted Rv(forest)	0.00	0.00
% Forest	0%	0%
Managed Turf Cover (acres)	0.74	0.00
Weighted Rv(turf)	0.21	0.00
% Managed Turf	47%	0%
Impervious Cover (acres)	0.85	0.85
Rv(impervious)	0.95	0.95
% Impervious	53%	100%
Total Site Area (acres)	**1.59**	**0.85**
Site Rv	**0.61**	**0.95**

LAND COVER SUMMARY – POST DEVELOPMENT

Land Cover Summary-Post (Final)	
Post ReDev. & New Impervious	
Forest/Open Space Cover (acres)	0.00
Weighted Rv(forest)	0.00
% Forest	0%
Managed Turf Cover (acres)	0.55
Weighted Rv (turf)	0.22
% Managed Turf	35%
Impervious Cover (acres)	1.04
Rv(impervious)	0.95
% Impervious	65%
Final Site Area (acres)	**1.59**
Final Post Dev Site Rv	**0.70**

Land Cover Summary-Post	
Post-ReDevelopment	
Forest/Open Space Cover (acres)	0.00
Weighted Rv(forest)	0.00
% Forest	0%
Managed Turf Cover (acres)	0.55
Weighted Rv (turf)	0.22
% Managed Turf	39%
ReDev. Impervious Cover (acres)	0.85
Rv(impervious)	0.95
% Impervious	61%
Total ReDev. Site Area (acres)	**1.40**
ReDev Site Rv	**0.66**

Land Cover Summary-Post	
Post-Development New Impervious	
New Impervious Cover (acres)	0.19
Rv(impervious)	0.95

Treatment Volume and Nutrient Load

Pre-ReDevelopment Treatment Volume (acre-ft)	0.0804	0.0673	**Final Post-Development Treatment Volume (acre-ft)**	0.0922	**Post-ReDevelopment Treatment Volume (acre-ft)**	0.0772	**Post-Development Treatment Volume (acre-ft)**	0.0150
Pre-ReDevelopment Treatment Volume (cubic feet)	3,503	2,931	**Final Post-Development Treatment Volume (cubic feet)**	4,017	**Post-ReDevelopment Treatment Volume (cubic feet)**	3,361	**Post-Development Treatment Volume (cubic feet)**	655
Pre-ReDevelopment TP Load (lb/yr)	**2.20**	**1.84**	**Final Post-Development TP Load (lb/yr)**	**2.52**	**Post-ReDevelopment Load (TP) (lb/yr)***	**2.11**	**Post-Development TP Load (lb/yr)**	**0.41**
Pre-ReDevelopment TP Load per acre (lb/acre/yr)	1.38	2.17	Final Post-Development TP Load per acre (lb/acre/yr)	1.59	Post-ReDevelopment TP Load per acre (lb/acre/yr)	1.51		
Baseline TP Load (lb/yr) (0.41 lbs/acre/yr applied to pre-redevelopment area excluding pervious land proposed for new impervious cover)	0.35				**Max. Reduction Required (Below Pre-ReDevelopment Load)**	20%		
					TP Load Reduction Required for Redeveloped Area (lb/yr)	**0.64**	**TP Load Reduction Required for New Impervious Area (lb/yr)**	**0.33**

*Adjusted Land Cover Summary:
Pre ReDevelopment land cover minus pervious land cover (forest/open space or managed turf) acreage proposed for new impervious cover.

*Adjusted total acreage is consistent with Post-ReDevelopment acreage (minus acreage of new impervious cover).

Column I shows load reduction requirement for new impervious cover (based on new development load limit; 0.41 lbs/acre/year).

Post-Development Requirement for Site Area

TP Load Reduction Required (lb/yr)	**0.97**
Linear Project TP Load Reduction Required (lb/yr):	**0.76**

Nitrogen Loads (Informational Purposes Only)

Pre-ReDevelopment TN Load (lb/yr)	15.74	Final Post-Development TN Load (Post-ReDevelopment & New Impervious) (lb/yr)	18.05	

Barracks Emmet Streetscape - Water Quantity Compliance Table

Outfall No.	Sub-Area	Sheet Flow (Y/N)	Channel Protection Criteria	Contributing Site Area (Ac.)	Limits of Analysis: Total D.A. to Outfall (Ac.)	Limits of Analysis: Contrib. to Total D.A. < 1% Check	Limits of Analysis: Description of Adequacy Situation & Outfall to 1% Point
1	-	N	1 a - Manmade	1.59	860	0.18%	Existing and proposed storm systems to double box culvert.

Notes:

1. None of the outfalls considered in this analysis are known to experience localized flooding, therefore Flood Protection Criteria # 1 is applied - requiring the conveyance system to confine postdevelopment flow within the system.

60% PLANS

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DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE 06/18/2021
DRAWN BY KJH
DESIGNED BY KJH
CHECKED BY BTC
SCALE

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
STORMWATER COMPLIANCE APPROACH

JOB NO. 43569
SHEET NO. 2D

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STORM SEWER STRUCTURES

#1107
STORM MH
RIM=456.13'
INV IN= 451.15' (30" RCP FROM #1487)
INV IN= 451.23' (18" RCP FROM #1106)
INV OUT= 450.98' (30" RCP TO #1244)

#1244
STORM MH
RIM=456.48'
INV IN= 446.62' (30" RCP FROM #7458)
INV OUT= 446.63' (30" RCP TO #1107)

#1488
CATCH BASIN 12inDIA
TOP=443.20'
INV IN= 441.31' (10" PVC FROM #1491)

#1491
RIM=444.41'
INV IN= 435.62' (15" RCP FROM #7702)
INV IN= 441.38' (10" PVC FROM #1488)
INV OUT= 435.59' (15" RCP TO POSSIBLE 6' X 6' CULVERT)

#1810
STORM MH
RIM=433.34'
INV IN= 424.41 (36" RCP FROM #1853)
INV IN= 424.19' (36" RCP TO A.D.)

#1853
STORM MH
RIM=442.14'
INV IN= 433.99' (36" RCP FROM #1874)
INV OUT= 433.92' (36" RCP TO #1810)

#1988
GRATE INLET
TOP=441.31'
(NO PIPES VISIBLE - POSSIBLE DROP INTO 6' X 6' CHAMBER)
0.8 X 3.0 OPENING IN STRUCTURE = 438.39'

#2056
STORM MH
RIM=465.58'
INV OUT= 461.45' (15" RCP TO #7702)

#2059
GRATE INLET
TOP=445.68'
INV IN= 442.69' (21" RCP FROM A.D.)
INV OUT= 441.48' (24" RCP TO #7458)

#6361
STORM MH
RIM=443.09'
INV IN= 440.01' (15" RCP FROM #6366)
INV OUT= 439.97' (18" RCP TO #7567)

#6366
GRATE INLET
TOP=443.28'
(FULL OF DIRT- PIPES INACCESSIBLE)
TOP OF DIRT = 442.4'±

#6472
STORM MH
RIM=443.12'
INV OUT= 439.87' (15" RCP TO #6515)

#6515
RIM=441.44'
STORM MH
INV IN= 438.96' (15" RCP FROM #6472)
INV OUT= 438.95' (TWIN 12" IRON TRANSITION TO 18" RCP TO #8002)

#6579
RIM=441.76'
STORM MH
INV IN= 433.83' (24" RCP FROM #7459)
INV IN= 435.57' (24" RCP FROM A.D.)
INV OUT= 433.81' (30" RCP TO #8002)

#6655
STORM MH
RIM=441.96'
INV OUT= 435.78' (18" RCP TO #8002)

#6697
STORM MH
RIM=443.60'
INV IN= 441.56' (8" IRON FROM NW)
INV OUT= 438.97' (15" RCP TO SW)

#6860
STORM MH
RIM=444.40'
INV IN= 440.97 (15" RCP FROM SE)
INV OUT= 441.05' (15" RCP TO #7459)

#7458
STORM MH
RIM=445.67'
INV IN= 439.91' (24" RCP FROM NE)
INV OUT= 439.97' (24" RCP TO #7459)

#7459
STORM MH
RIM=444.48'
INV IN= 439.11' (24" RCP FROM #7458)
INV IN= 438.37' (15" RCP FROM #6860)
INV OUT= 435.21' (24" RCP TO #6579)

#7461
GRATE INLET
TOP=445.09'
INV OUT= 442.15' (12" RCP TO POSSIBLE BLIND CONNECTION BETWEEN #7458 - #2059)

#7507
GRATE INLET
TOP=443.73'
INV OUT= 441.45' (15" RCP TO #6361)

#7567
STORM MH
RIM=442.50'
INV IN= 438.10' (18" RCP FROM #6361)
INV OUT= 438.14' (18" RCP TO #7599)

#7599
STORM MH
RIM=441.96'
INV IN= 438.56' (9" PVC FROM SW)
INV IN= 437.24' (18" RCP FROM #7567)
INV OUT= 437.15' (18" RCP TO #8002)

#7702
STORM MH
RIM=451.36'
INV IN= 447.45' (15" RCP FROM #2056)
INV OUT= 447.28' (15" RCP TO #1491)

#8002
RIM=441.71'
STORM MH
INV IN= 433.34' (24" RCP FROM #6579)
INV IN= 433.58' (18" RCP FROM #6655)
INV IN= 435.74' (18" RCP FROM 6515)
INV OUT= 433.16' (30" RCP TO #87003)

#8003
RIM=441.68'
STORM MH
INV IN= 431.87' (30" RCP FROM #8002)
INV OUT= 431.55' (36" RCP TO SE)

SANITARY SEWER STRUCTURES

#6251
SANITARY MH
RIM=444.94'
INV IN= 435.53' (18" TC FROM #6516)
INV IN= 435.44' (UNK SIZE & MATERIAL FROM #7533)
INV IN= 435.53' (UNK SIZE & MATERIAL FROM #7816)
INV OUT= 435.44' (18" TC TO #10003-OFFSITE)

#6516
SANITARY MH
RIM=441.85'
INV IN= 437.31' (18" DI FROM #7814)
INV IN= 437.35' (18" TC FROM #7460)
INV IN= 437.40' (8" DI FROM #8004)
INV IN= 437.84' (6" DI FROM NW)
INV OUT= 437.26' (18" TC TO #6251)

#6859
SANITARY MH
RIM=445.98'
INV IN= 437.87' (15" TC FROM NW-OFFSITE)
INVE OUT= 438.08' (15" TC TO #7460

#7460
SANITARY MH
RIM=444.15'
INV IN= 437.06' (15" TC FROM #6859)
INV OUT= 437.21' (18" TC TO #6516)

#7533
SANITARY MH
RIM=444.13'
INV OUT= 436.87' (UNK SIZE & MATERIAL TO #6251)

#7700
SANITARY MH
RIM=456.32'
INV IN= 444.48' (6" TC FROM #7818)
INV IN= 451.45' (6" TC FROM #7701)
INV OUT= 444.50' (8"TC TO #7817)

#7701
SANITARY MH
RIM=456.15'
INV IN= 451.85' (6" TC FROM SW)
INV OUT= 451.72' (6" TC TO #7700)

#7814
SANITARY MH
RIM=444.81'
INV IN= 437.46' (18" DI FROM NW)
INV IN= 440.42' (4" DI FROM SW)
INV OUT= 437.53' (18" DI TO #6516)

#7816
DRY SANITARY MH
RIM=444.04'
C/L ELEVATION= 440.10' (PIPES SURCHARGED W/DIRT)

#7817
SANITARY MH OFFSITE
RIM=454.21'
INV IN= 441.93' (18" TC TO NW)
INV IN= 443.32' (8" TC FROM #7700)
INV OUT= 441.87' (18" TC TO NW)

#8001
RIM=441.71'
SANITARY MH
INV IN= 438.24' 8" DI FROM #8000)
INV IN= 438.52' (6" DI FROM SW)
INV OUT= 438.20' (8" DI TO #8004)

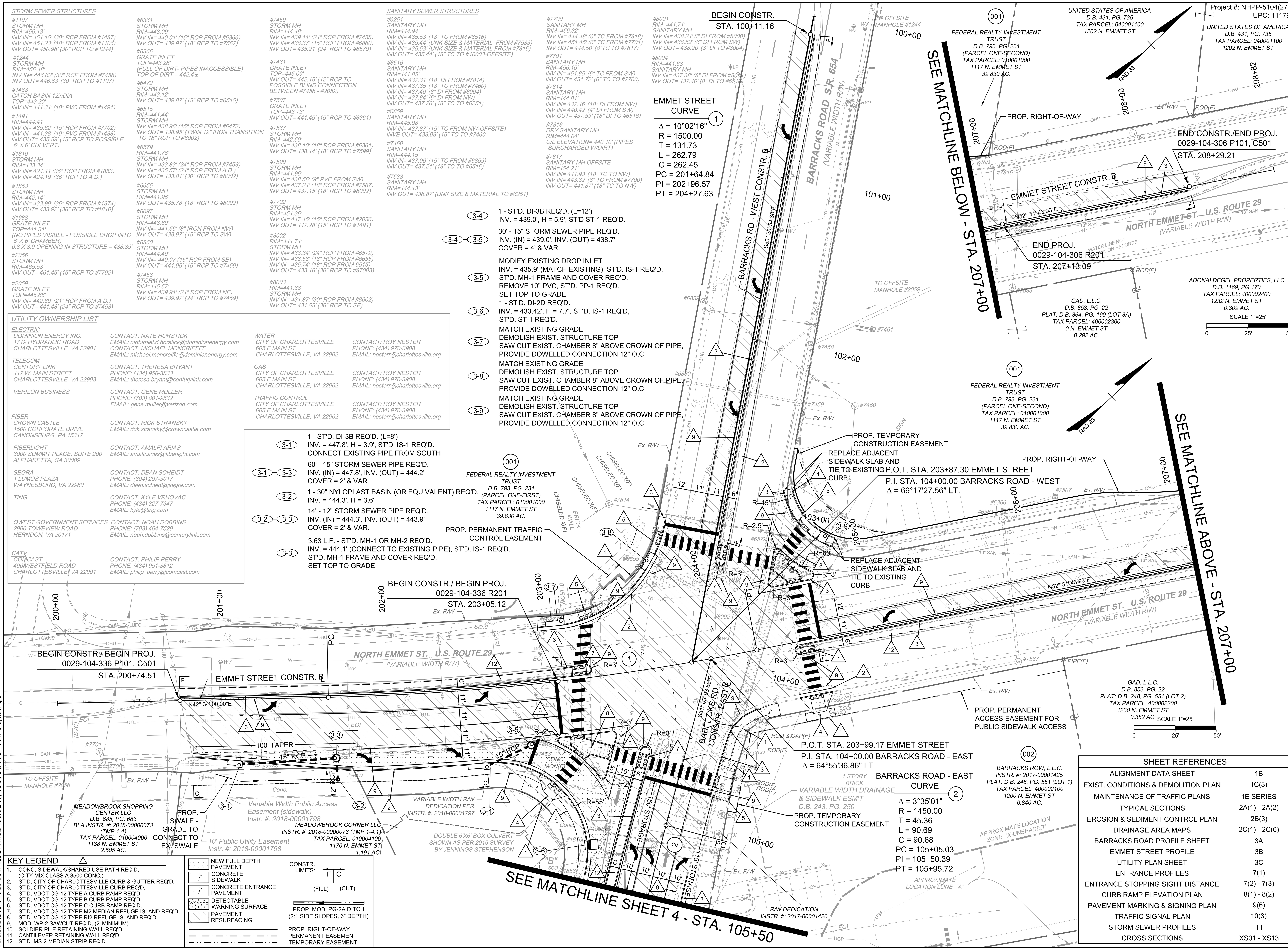
#8004
RIM=441.68'
SANITARY MH
INV IN= 437.38' (8" DI FROM #8001)
INV OUT= 437.40' (8" DI TO #6516)

UTILITY OWNERSHIP LIST

ELECTRIC		
DOMINION ENERGY INC. 1719 HYDRAULIC ROAD CHARLOTTESVILLE, VA 22901	CONTACT: NATE HORSTICK EMAIL: nathaniel.d.horstick@dominionenergy.com CONTACT: MICHAEL MONCRIEFFE EMAIL: michael.moncreiffe@dominionenergy.com	
TELECOM		
CENTURY LINK 417 W. MAIN STREET CHARLOTTESVILLE, VA 22903	CONTACT: THERESA BRYANT PHONE: (434) 956-3833 EMAIL: theresa.bryant@centurylink.com	
VERIZON BUSINESS	CONTACT: GENE MULLER PHONE: (703) 801-9532 EMAIL: gene.muller@verizon.com	
FIBER		
CROWN CASTLE 1500 CORPORATE DRIVE CANONSBURG, PA 15317	CONTACT: RICK STRANSKY EMAIL: rick.stransky@crowncastle.com	
FIBERLIGHT 3000 SUMMIT PLACE, SUITE 200 ALPHARETTA, GA 30009	CONTACT: AMALFI ARIAS EMAIL: amalfi.arias@fiberlight.com	
SEGRA 1 LUMOS PLAZA WAYNESBORO, VA 22980	CONTACT: DEAN SCHEIDT PHONE: (804) 297-3017 EMAIL: dean.scheidt@segra.com	
TING	CONTACT: KYLE VRHOVAC PHONE: (434) 327-7347 EMAIL: kyle@ting.com	
QWEST GOVERNMENT SERVICES 2900 TOWEVIEW ROAD HERNDON, VA 20171	CONTACT: NOAH DOBBINS PHONE: (703) 464-7529 EMAIL: noah.dobbins@centurylink.com	
CATV		
COMCAST 400 WESTFIELD ROAD CHARLOTTESVILLE, VA 22901	CONTACT: PHILIP PERRY PHONE: (434) 951-3812 EMAIL: philip_perry@comcast.com	
WATER		
CITY OF CHARLOTTESVILLE 605 E MAIN ST CHARLOTTESVILLE, VA 22902	CONTACT: ROY NESTER PHONE: (434) 970-3908 EMAIL: nesterr@charlottesville.org	
GAS		
CITY OF CHARLOTTESVILLE 605 E MAIN ST CHARLOTTESVILLE, VA 22902	CONTACT: ROY NESTER PHONE: (434) 970-3908 EMAIL: nesterr@charlottesville.org	
TRAFFIC CONTROL		
CITY OF CHARLOTTESVILLE 605 E MAIN ST CHARLOTTESVILLE, VA 22902	CONTACT: ROY NESTER PHONE: (434) 970-3908 EMAIL: nesterr@charlottesville.org	

STORM SEWER NOTES

3-1	1 - ST'D. DI-3B REQ'D. (L=8') INV. = 447.8', H = 3.9', ST'D. IS-1 REQ'D. CONNECT EXISTING PIPE FROM SOUTH
3-1 – 3-3	60' - 15" STORM SEWER PIPE REQ'D. INV. (IN) = 447.8', INV. (OUT) = 444.2' COVER = 2' & VAR.
3-2	1 - 30" NYLOPLAST BASIN (OR EQUIVALENT) REQ'D. INV. = 444.3', H = 3.6'
3-2 – 3-3	14' - 12" STORM SEWER PIPE REQ'D. INV. (IN) = 444.3', INV. (OUT) = 443.9' COVER = 2' & VAR.
3-3	3.63 L.F. - ST'D. MH-1 OR MH-2 REQ'D. INV. = 444.1' (CONNECT TO EXISTING PIPE), ST'D. IS-1 REQ'D. ST'D. MH-1 FRAME AND COVER REQ'D. SET TOP TO GRADE
3-4	1 - ST'D. DI-3B REQ'D. (L=12') INV. = 439.0', H = 5.9', ST'D ST-1 REQ'D.
3-4 – 3-5	30' - 15" STORM SEWER PIPE REQ'D. INV. (IN) = 439.0', INV. (OUT) = 438.7' COVER = 4' & VAR.
3-5	MODIFY EXISTING DROP INLET INV. = 435.9' (MATCH EXISTING), ST'D. IS-1 REQ'D. ST'D. MH-1 FRAME AND COVER REQ'D. REMOVE 10" PVC, ST'D. PP-1 REQ'D. SET TOP TO GRADE
3-6	1 - ST'D. DI-2D REQ'D. INV. = 433.42', H = 7.7', ST'D. IS-1 REQ'D, ST'D. ST-1 REQ'D.
3-7	MATCH EXISTING GRADE DEMOLISH EXIST. STRUCTURE TOP SAW CUT EXIST. CHAMBER 8" ABOVE CROWN OF PIPE, PROVIDE DOWELLED CONNECTION 12" O.C.
3-8	MATCH EXISTING GRADE DEMOLISH EXIST. STRUCTURE TOP SAW CUT EXIST. CHAMBER 8" ABOVE CROWN OF PIPE, PROVIDE DOWELLED CONNECTION 12" O.C.
3-9	MATCH EXISTING GRADE DEMOLISH EXIST. STRUCTURE TOP SAW CUT EXIST. CHAMBER 8" ABOVE CROWN OF PIPE, PROVIDE DOWELLED CONNECTION 12" O.C.



KEY LEGEND △

1. CONC. SIDEWALK/SHARED USE PATH REQ'D. (CITY MIX CLASS A 3500 CONC.)
2. ST'D. CITY OF CHARLOTTESVILLE CURB & GUTTER REQ'D.
3. ST'D. CITY OF CHARLOTTESVILLE CURB REQ'D.
4. ST'D. VDOT CG-12 TYPE A CURB RAMP REQ'D.
5. ST'D. VDOT CG-12 TYPE B CURB RAMP REQ'D.
6. ST'D. VDOT CG-12 TYPE C CURB RAMP REQ'D.
7. ST'D. VDOT CG-12 TYPE M2 MEDIAN REFUGE ISLAND REQ'D.
8. ST'D. VDOT CG-12 TYPE RI2 REFUGE ISLAND REQ'D.
9. MOD. WP-2 SAWCUT REQ'D. (2' MINIMUM)
10. SOLDIER PILE RETAINING WALL REQ'D.
11. CANTILEVER RETAINING WALL REQ'D.
12. ST'D. MS-2 MEDIAN STRIP REQ'D.

NEW FULL DEPTH PAVEMENT
CONCRETE SIDEWALK
CONCRETE ENTRANCE PAVEMENT
DETECTABLE WARNING SURFACE
PAVEMENT RESURFACING

CONSTR. LIMITS: F | C (FILL) (CUT)
PROP. MOD. PG-2A DITCH (2:1 SIDE SLOPES, 6" DEPTH)
PROP. RIGHT-OF-WAY
PERMANENT EASEMENT
TEMPORARY EASEMENT

SHEET REFERENCES

ALIGNMENT DATA SHEET	1B
EXIST. CONDITIONS & DEMOLITION PLAN	1C(3)
MAINTENANCE OF TRAFFIC PLANS	1E SERIES
TYPICAL SECTIONS	2A(1) - 2A(2)
EROSION & SEDIMENT CONTROL PLAN	2B(3)
DRAINAGE AREA MAPS	2C(1) - 2C(6)
BARRACKS ROAD PROFILE SHEET	3A
EMMET STREET PROFILE	3B
UTILITY PLAN SHEET	3C
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
PAVEMENT MARKING & SIGNING PLAN	9(6)
TRAFFIC SIGNAL PLAN	10(3)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS01 - XS13

Project #: NHPP-5104(275)
UPC: 111796

60% PLANS

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7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
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DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

PLAN SHEET

JOB NO. 43569
SHEET NO. 3

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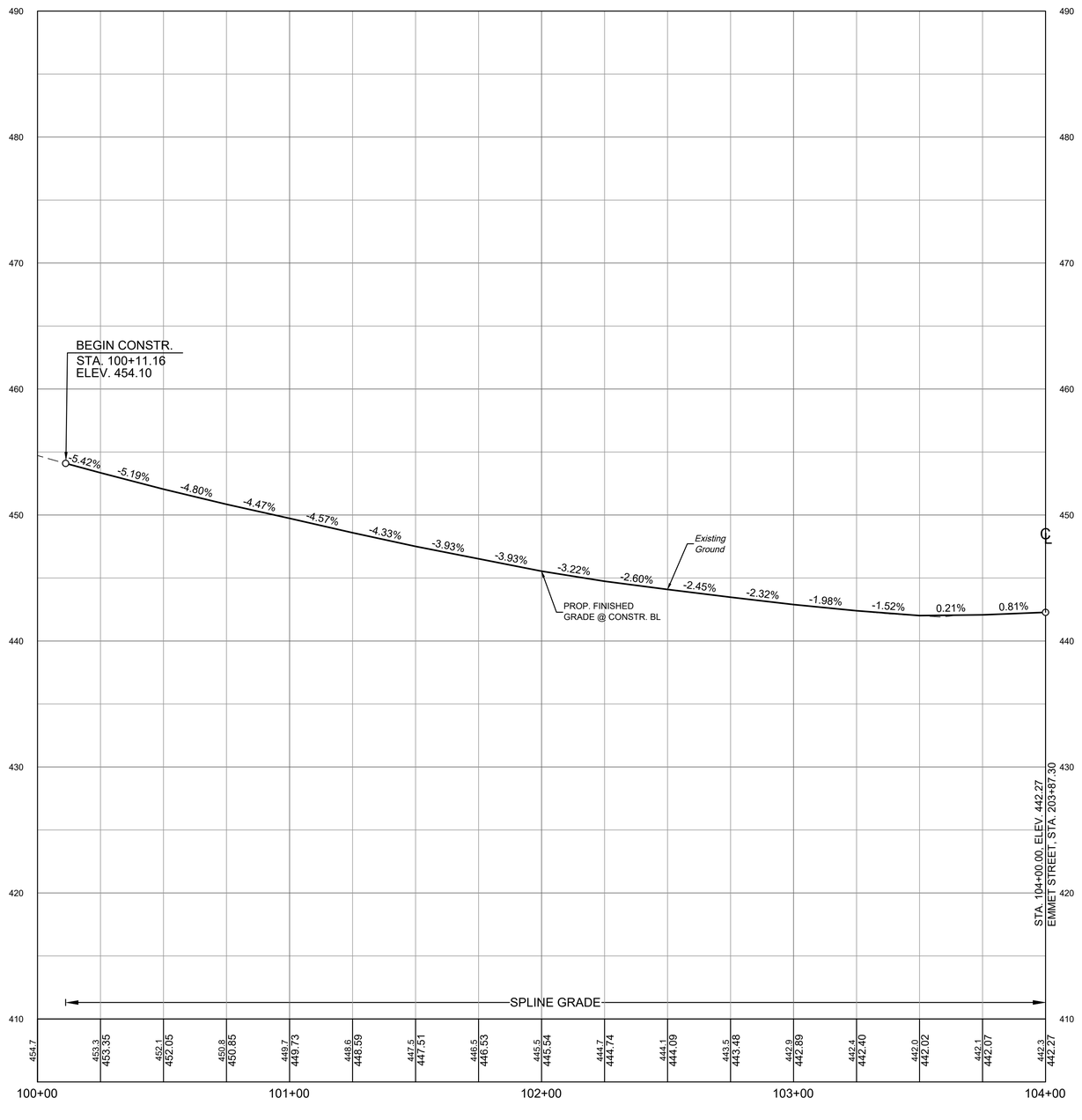
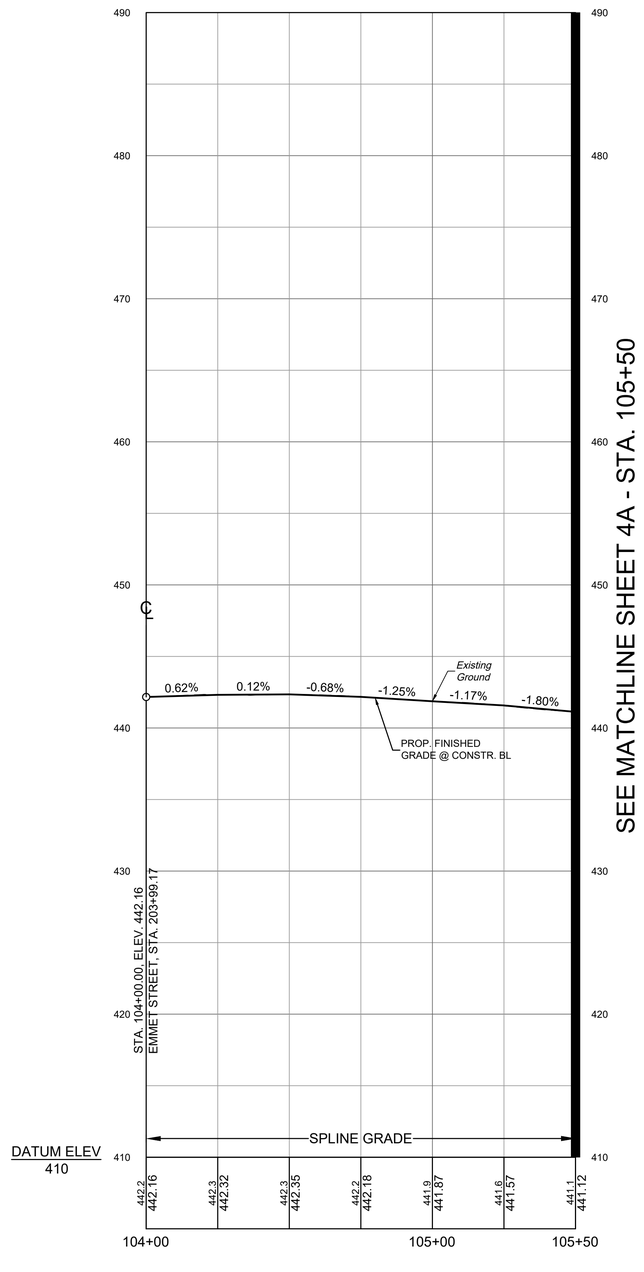
Project #: NHPP-5104(275)
UPC: 111796

BARRACKS ROAD - WEST



BARRACKS ROAD - EAST



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PROFILE SCALE

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SCALE: AS SHOWN

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

BARRACKS ROAD PROFILE

JOB NO. 43569
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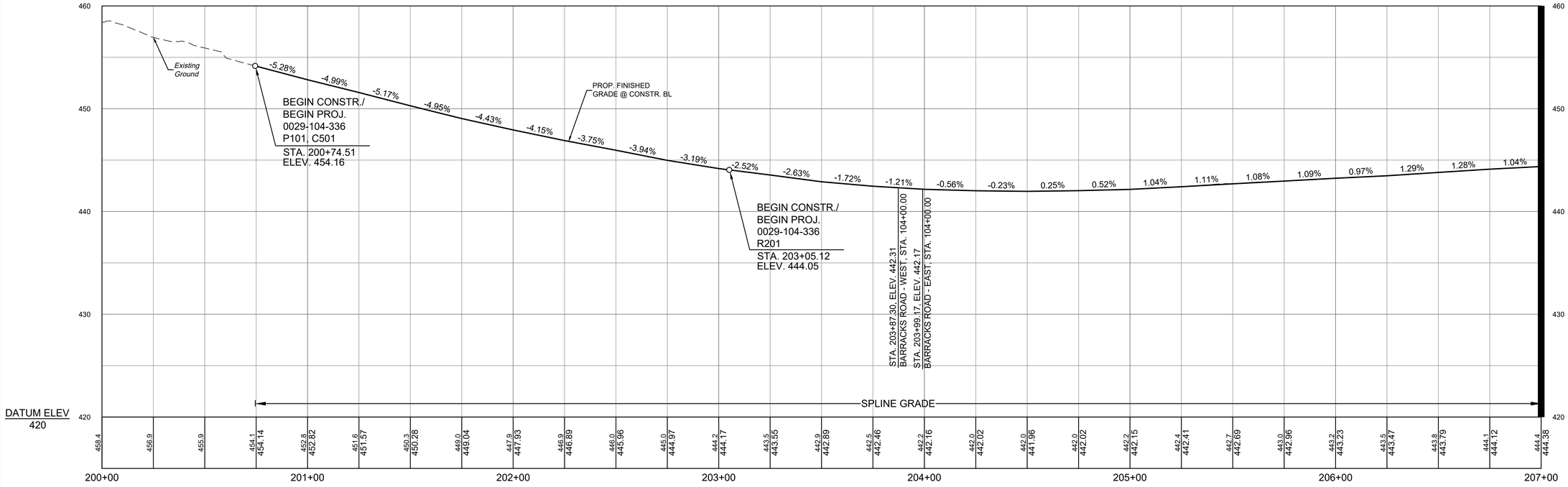
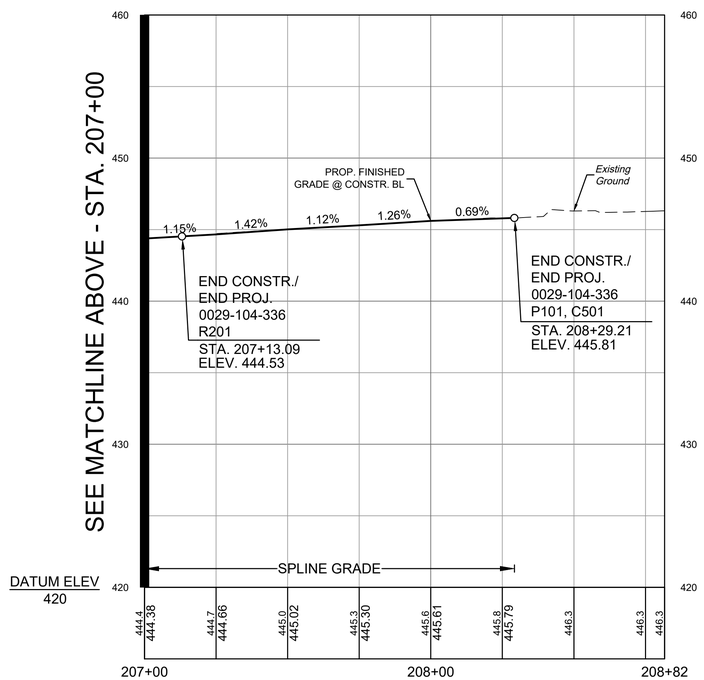
Project #: NHPP-5104(275)
UPC: 111796

EMMET STREET



EMMET STREET



5
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PROFILE SCALE

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SCALE: AS SHOWN

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
EMMET STREET PROFILE

JOB NO. 43569
SHEET NO. 3B

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STORM SEWER STRUCTURES

#1107
STORM MH
RIM=456.13'
INV IN= 451.15' (30" RCP FROM #1487)
INV IN= 451.23' (18" RCP FROM #1106)
INV OUT= 450.98" (30" RCP TO #1244)

#1244
STORM MH
RIM=456.48'
INV IN= 446.62' (30" RCP FROM #7458)
INV OUT= 446.63' (30" RCP TO #1107)

#1488
CATCH BASIN 12inDIA
TOP=443.20'
INV IN= 441.31' (10" PVC FROM #1491)

#1491
RIM=444.41'
INV IN= 435.62' (15" RCP FROM #7702)
INV IN= 441.38' (10" PVC FROM #1488)
INV OUT= 435.59' (15" RCP TO POSSIBLE 6' X 6' CULVERT)

#1810
STORM MH
RIM=443.34'
INV IN= 424.41 (36" RCP FROM #1853)
INV IN= 424.19' (36" RCP TO A.D.)

#1853
STORM MH
RIM=442.14'
INV IN= 433.99' (36" RCP FROM #1874)
INV OUT= 433.92' (36" RCP TO #1810)

#1988
GRATE INLET
TOP=441.31'
(NO PIPES VISIBLE - POSSIBLE DROP INTO 6' X 6' CHAMBER)
0.8 X 3.0 OPENING IN STRUCTURE = 438.39'

#2056
STORM MH
RIM=465.58'
INV OUT= 461.45' (15" RCP TO #7702)

#2059
GRATE INLET
TOP=445.68'
INV IN= 442.69' (21" RCP FROM A.D.)
INV OUT= 441.48' (24" RCP TO #7458)

#6361
STORM MH
RIM=443.09'
INV IN= 440.01' (15" RCP FROM #6366)
INV OUT= 439.97' (18" RCP TO #7567)

#6366
GRATE INLET
TOP=443.28'
(FULL OF DIRT- PIPES INACCESSIBLE)
TOP OF DIRT = 442.4'±

#6472
STORM MH
RIM=443.12'
INV OUT= 439.87' (15" RCP TO #6515)

#6515
RIM=441.44'
STORM MH
INV IN= 438.96' (15" RCP FROM #6472)
INV OUT= 438.95' (TWIN 12" IRON TRANSITION TO 18" RCP TO #8002)

#6579
RIM=441.76'
STORM MH
INV IN= 433.83' (24" RCP FROM #7459)
INV IN= 435.57' (24" RCP FROM A.D.)
INV OUT= 433.81' (30" RCP TO #8002)

#6655
STORM MH
RIM=441.96'
INV OUT= 435.78' (18" RCP TO #8002)

#6697
STORM MH
RIM=443.80'
INV IN= 441.56' (8" IRON FROM NW)
INV OUT= 438.97' (15" RCP TO SW)

#6860
STORM MH
RIM=444.40'
INV IN= 440.97' (15" RCP FROM SE)
INV OUT= 441.05' (15" RCP TO #7459)

#7458
STORM MH
RIM=445.67'
INV IN= 439.91' (24" RCP FROM NE)
INV OUT= 439.97' (24" RCP TO #7459)

#7459
STORM MH
RIM=444.48'
INV IN= 438.11' (24" RCP FROM #7458)
INV IN= 438.37' (15" RCP FROM #6860)
INV OUT= 435.21' (24" RCP TO #6579)

#7461
GRATE INLET
TOP=445.09'
INV OUT= 442.15' (12" RCP TO POSSIBLE BLIND CONNECTION BETWEEN #7458 - #2059)

#7507
GRATE INLET
TOP=443.73'
INV OUT= 441.45' (15" RCP TO #6361)

#7567
STORM MH
RIM=442.50'
INV IN= 438.10' (18" RCP FROM #6361)
INV OUT= 438.14' (18" RCP TO #7599)

#7599
STORM MH
RIM=451.36'
INV IN= 447.45' (15" RCP FROM #2056)
INV OUT= 447.28' (15" RCP TO #1491)

#8002
RIM=441.71'
STORM MH
INV IN= 433.34' (24" RCP FROM #6579)
INV IN= 433.58' (18" RCP FROM #6655)
INV IN= 435.74' (18" RCP FROM 6515)
INV OUT= 433.16' (30" RCP TO #87003)

#8003
RIM=441.68'
STORM MH
INV IN= 431.87' (30" RCP FROM #8002)
INV OUT= 431.55' (36" RCP TO SE)

SANITARY SEWER STRUCTURES

#6251
SANITARY MH
RIM=444.94'
INV IN= 435.53' (18" TC FROM #6516)
INV IN= 435.44' (UNK SIZE & MATERIAL FROM #7533)
INV IN= 435.53' (UNK SIZE & MATERIAL FROM #7816)
INV OUT= 435.44' (18" TC TO #10003-OFFSITE)

#6516
SANITARY MH
RIM=441.85'
INV IN= 437.31' (18" DI FROM #7814)
INV IN= 437.35' (18" TC FROM #7460)
INV IN= 437.40' (8" DI FROM #8004)
INV IN= 437.84' (6" DI FROM NW)
INV OUT= 437.26' (18" TC TO #6251)

#6859
SANITARY MH
RIM=445.98'
INV IN= 437.87" (15" TC FROM NW-OFFSITE)
INVE OUT= 438.08' (15" TC TO #7460

#7460
SANITARY MH
RIM=444.15'
INV IN= 437.06' (15" TC FROM #6859)
INV OUT= 437.21' (18" TC TO #6516)

#7533
SANITARY MH
RIM=444.13'
INV OUT= 436.87' (UNK SIZE & MATERIAL TO #6251)

#7700
SANITARY MH
RIM=456.32'
INV IN= 444.48' (6" TC FROM #7818)
INV IN= 451.45' (6" TC FROM #7701)
INV OUT= 444.50' (8"TC TO #7817)

#7701
SANITARY MH
RIM=456.15'
INV IN= 451.85' (6" TC FROM SW)
INV OUT= 451.72' (6" TC TO #7700)

#7814
SANITARY MH
RIM=444.81'
INV IN= 437.46' (18" DI FROM NW)
INV IN= 440.42' (4" DI FROM SW)
INV OUT= 437.53' (18" DI TO #6516)

#7816
DRY SANITARY MH
RIM=444.04'
CL ELEVATION= 440.10' (PIPES SURCHARGED W/DIRT)

#7817
SANITARY MH OFFSITE
RIM=454.21'
INV IN= 441.93' (18" TC TO NW)
INV IN= 443.32" (8" TC FROM #7700)
INV OUT= 441.87' (18" TC TO NW)

#8001
RIM=441.71'
SANITARY MH
INV IN= 438.24' 8" DI FROM #8000)
INV IN= 438.52' (6" DI FROM SW)
INV OUT= 438.20' (8" DI TO #8004)

#8004
RIM=441.68'
SANITARY MH
INV IN= 437.38' (8" DI FROM #8001)
INV OUT= 437.40' (8" DI TO #6516)

UTILITY OWNERSHIP LIST

ELECTRIC
DOMINION ENERGY INC.
1719 HYDRAULIC ROAD
CHARLOTTESVILLE, VA 22901
CONTACT: NATE HORSTICK
EMAIL: nathaniel.d.horstick@dominionenergy.com
CONTACT: MICHAEL MONCRIEFFE
EMAIL: michael.moncrieffe@dominionenergy.com

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ALPHARETTA, GA 30009
CONTACT: AMALFI ARIAS
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TING
CONTACT: KYLE VRHOVAC
PHONE: (434) 327-7347
EMAIL: kyle@ting.com

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2900 TOWEVIEW ROAD
HERNDON, VA 20171
CONTACT: NOAH DOBBINS
PHONE: (703) 464-7529
EMAIL: noah.dobbins@centurylink.com

CATV
COMCAST
400 WESTFIELD ROAD
CHARLOTTESVILLE, VA 22901
CONTACT: PHILIP PERRY
PHONE: (434) 951-3812
EMAIL: philip_perry@comcast.com

WATER
CITY OF CHARLOTTESVILLE
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CHARLOTTESVILLE, VA 22902
CONTACT: ROY NESTER
PHONE: (434) 970-3908
EMAIL: nesterr@charlottesville.org

GAS
CITY OF CHARLOTTESVILLE
605 E MAIN ST
CHARLOTTESVILLE, VA 22902
CONTACT: ROY NESTER
PHONE: (434) 970-3908
EMAIL: nesterr@charlottesville.org

TRAFFIC CONTROL
CITY OF CHARLOTTESVILLE
605 E MAIN ST
CHARLOTTESVILLE, VA 22902
CONTACT: ROY NESTER
PHONE: (434) 970-3908
EMAIL: nesterr@charlottesville.org

LEGEND

- (C) EXISTING UTILITY TO BE RELOCATED (BY CONTRACTOR)
- (R) EXISTING UTILITY TO BE ADJUSTED OR RELOCATED (BY OTHERS)
- (A) EXISTING UTILITY TO BE ADJUSTED TO FINAL GRADE (BY CONTRACTOR)

SEE MATCHLINE THIS SHEET - STA. 207+00

SEE MATCHLINE SHEET 4B - STA. 105+50

SEE MATCHLINE INSET - STA. 207+00

BARRACKS ROAD S.R. 654 (VARIABLE WIDTH R/W)

BARRACKS RD - WEST CONSTR. B

BARRACKS RD - EAST CONSTR. B

EMMET STREET CONSTR. B

NORTH EMMET ST. U.S. ROUTE 29 (VARIABLE WIDTH R/W)

PROP. RIGHT-OF-WAY

PROP. TEMPORARY CONSTRUCTION EASEMENT

PROP. PERMANENT TRAFFIC CONTROL EASEMENT

PROP. PERMANENT ACCESS EASEMENT FOR PUBLIC SIDEWALK ACCESS

RELOCATE EXISTING 6" HYDRANT WATER LINE. MAINTAIN 5' MINIMUM CLEARANCE WITH NEW TRAFFIC SIGNAL POLE (D) FOUNDATION.

TH#1 TH#2 TH#3 TH#4 TH#5

TO OFFSITE MANHOLE #2056

TO OFFSITE MANHOLE #1244

TO OFFSITE MANHOLE #2059

001 FEDERAL REALTY INVESTMENT TRUST D.B. 793, PG. 231 (PARCEL ONE-SECOND) TAX PARCEL: 010001000 1117 N. EMMET ST 39.830 AC.

002 BARRACKS ROW, L.L.C. INSTR. #: 2017-00001425 PLAT: D.B. 248, PG. 551 (LOT 1) TAX PARCEL: 400002100 1200 N. EMMET ST 0.840 AC.

UNITED STATES OF AMERICA D.B. 431, PG. 735 TAX PARCEL: 040001100 1202 N. EMMET ST

GAD, L.L.C. D.B. 853, PG. 22 PLAT: D.B. 364, PG. 190 (LOT 3A) TAX PARCEL: 400002300 0 N. EMMET ST 0.292 AC.

ADONAI DEGEL PROPERTIES, LLC D.B. 1169, PG.170 TAX PARCEL: 400002400 1232 N. EMMET ST 0.309 AC.

GAD, L.L.C. D.B. 853, PG. 22 PLAT: D.B. 248, PG. 551 (LOT 2) TAX PARCEL: 400002200 1230 N. EMMET ST 0.382 AC.

MEADOWBROOK SHOPPING CENTER LLC D.B. 685, PG. 683 BLA INSTR. #: 2018-00000073 (TMP 1-4) TAX PARCEL: 010004000 1138 N. EMMET ST 2.505 AC.

MEADOWBROOK CORNER LLC INSTR. #: 2018-00000073 (TMP 1-4, 1-5) TAX PARCEL: 010004100 1170 N. EMMET ST 1.191 AC.

Variable Width Public Access Easement (sidewalk) Instr. #: 2018-00001798

10' Public Utility Easement Instr. #: 2018-00001798

VARIABLE WIDTH R/W DEDICATION PER INSTR. #: 2018-00001797

DOUBLE 6'X6' BOX CULVERT SHOWN AS PER 2015 SURVEY BY JENNINGS STEPHENSON

R/W DEDICATION INSTR. #: 2017-00001426

WATER LINE NOT SHOWN ON RECORDS

1 STORY BRICK

VARIABLE WIDTH DRAINAGE & SIDEWALK ESMT D.B. 243, PG. 250

APPROXIMATE LOCATION ZONE "X-UNSHADED"

APPROXIMATE LOCATION ZONE "A"

SCALE 1"=25'

0 25' 50'

SHEET REFERENCES	
ALIGNMENT DATA SHEET	1B
EXIST. CONDITIONS & DEMOLITION PLAN	1C(3)
MAINTENANCE OF TRAFFIC PLANS	1E SERIES
TYPICAL SECTIONS	2A(1) - 2A(2)
EROSION & SEDIMENT CONTROL PLAN	2B(3)
DRAINAGE AREA MAPS	2C(1) - 2C(6)
PLAN SHEET	3
BARRACKS ROAD PROFILE SHEET	3A
EMMET STREET PROFILE	3B
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
PAVEMENT MARKING & SIGNING PLAN	9(6)
TRAFFIC SIGNAL PLAN	10(3)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS01 - XS13

Project #: NHPP-5104(275)
UPC: 111796

60% PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

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YOUR VISION ACHIEVED THROUGH OURS.

Site Development | Residential | Infrastructure | Technology

DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE 06/18/2021
DRAWN BY KJH
DESIGNED BY KJH
CHECKED BY BTC
SCALE 1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
UTILITY PLAN SHEET

JOB NO. 43569
SHEET NO. 3C

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Project #: NHPP-5104(275)
UPC: 111796

60% PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

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DATE	REVISION DESCRIPTION
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2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE 06/18/2021
DRAWN BY KJH
DESIGNED BY KJH
CHECKED BY BTC
SCALE 1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

PLAN SHEET

JOB NO. 43569
SHEET NO. 4

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SEE MATCHLINE SHEET 3 - STA. 105+50

SEE MATCHLINE SHEET 5 - STA. 112+00

BARRACKS ROAD - EAST CURVE (3)
Δ = 1°54'38"
R = 1990.00
T = 33.18
L = 66.36
C = 66.35
PC = 105+95.72
PI = 106+28.90
PT = 106+62.08

BARRACKS ROAD - EAST CURVE (4)
Δ = 4°24'54"
R = 2540.00
T = 97.91
L = 195.72
C = 195.67
PRC = 106+62.08
PI = 107+59.99
PT = 108+57.80

4-1: 1 - ST'D. DI-1A REQ'D. INV. = 447.9', H = 12.6', ST'D. ST-1 REQ'D., ST'D. SL-1 REQ'D., STRUCTURE TO BE SURROUNDED BY 2' WIDTH OF CONCRETE AT 2:1
4-1 4-2: 8' - 15" STORM SEWER PIPE REQ'D. INV. (IN) = 447.9', INV. (OUT) = 447.7' COVER = 2' & VAR.
4-2: 3.3 LF - ST'D. MH-1 OR 2 REQ'D. INV. = 447.6', ST'D. IS-1 REQ'D. ST'D. MH-1 FRAME & COVER REQ'D. SET TOP TO GRADE
4-2 4-3: 10' - 15" STORM SEWER PIPE REQ'D. INV. (IN) = 447.6', INV. (OUT) = 447.5' COVER = 2' & VAR.
4-3: 1 - ST'D. DI-3B REQ'D. (L=12') INV. = 447.4', H = 3.9', ST'D. IS-1 REQ'D.
4-3 4-4: 58' - 15" STORM SEWER PIPE REQ'D. INV. (IN) = 447.4', INV. (OUT) = 444.5' COVER = 2' & VAR.
4-4: 8.3 LF - ST'D. MH-1 OR 2 REQ'D. INV. = 444.0', ST'D. IS-1 REQ'D., ST'D. ST-1 REQ'D. SLIP-RESISTANT MH-1 FRAME & COVER REQ'D. SET TOP TO GRADE
4-4 4-5: 171' - 15" STORM SEWER PIPE REQ'D. INV. (IN) = 440.0', INV. (OUT) = 437.1' COVER = 3' & VAR.
4-5: 4.8 LF - ST'D. MH-1 OR 2 REQ'D. INV. = 436.8', ST'D. IS-1 REQ'D., ST'D. ST-1 REQ'D. ST'D. MH-1 FRAME & COVER REQ'D. CONTRACTOR TO ROTATE LID OUT OF WHEEL PATH OF VEHICLES, SET TOP TO GRADE
4-5 4-6: 16' - 18" STORM SEWER PIPE REQ'D. INV. (IN) = 436.8', INV. (OUT) = 436.7' COVER = 3' & VAR.
4-6: MODIFY EXISTING STRUCTURE TO ACCEPT PROP. 18" PIPE FROM EAST (INV. = 436.7')

MARY W. L. COWAN, TRUSTEE OF THE MARY W. L. COWAN INSTR. #: 2012-002771 TAX PARCEL: 400020000 2033 HESSIAN RD D.B. 229, PG. 424, D.B. 987, PG. 722 0.997 AC.

DANIEL M. FELLOWS, KATHERINE H. FELLOWS INSTR. #: 2015-00002720 TAX PARCEL: 400034000 2035 HESSIAN RD D.B. 229, PG. 424 0.807 AC.

PATTYE H. LEGGETT, TRUSTEE INSTR. #: 2016-000001658 TAX PARCEL: 400033000 2022 HESSIAN RD PLAT:D.B. 122, PG. 52 PLAT:D.B. 158, PG. 337 0.510 AC.

ROY CANNON THOMAS, DEIRDRE B. THOMAS, TRUSTEES INSTR. #: 2017-00004280 (PER DESCRIPTION) TAX PARCEL: 400032000 2018 HESSIAN RD PLAT:D.B. 122, PG. 52 PLAT:D.B. 158, PG. 337 0.868 AC.

BARRACKS ROAD - EAST CURVE (6)
Δ = 5°07'59"
R = 3012.00
T = 135.01
L = 269.84
C = 269.75
PC = 111+28.07
PI = 112+63.08
PT = 113+97.91

BARRACKS ROAD - EAST CURVE (2)
Δ = 3°35'01"
R = 1450.00
T = 45.36
L = 90.69
C = 90.68
PC = 105+05.03
PI = 105+50.39
PT = 105+95.72

BARRACKS ROAD - EAST CURVE (5)
Δ = 3°25'48"
R = 2000.00
T = 59.88
L = 119.73
C = 119.71
PC = 108+57.80
PI = 109+17.68
PT = 109+77.53

003: MEADOWBROOK SHOPPING CENTER LLC D.B. 685, PG. 683 BLA INSTR. #: 2018-00000073 (TMP 1-4) TAX PARCEL: 010004000 1138 N. EMMET ST 2.505 AC.

004: ELIZABETH A. M. BOOKER, TRUSTEE D.B. 651, PG. 842 (LOT11) (LESS & EXCEPT: D.B. 892, PG. 324, LOTS 9 & 10) TAX PARCEL: 010005000 0 BARRACKS RD PLAT:D.B. 215, PG. 480 0.830 AC.

005: TIMOTHY J. HEAPHY, LORI J. SHINSEKI D.B. 892, PG. 324 (LOTS 9 &10) TAX PARCEL: 010006000 2028 BARRACKS RD PLAT:D.B. 215, PG. 480 1.890 AC.

005: TIMOTHY J. HEAPHY, LORI J. SHINSEKI D.B. 892, PG. 324 (LOTS 9 &10) TAX PARCEL: 010006000 2028 BARRACKS RD PLAT:D.B. 215, PG. 480 1.890 AC.

MEADOWBROOK CORNER LLC INSTR. #: 2018-00000073 (TMP 1-4.1) TAX PARCEL: 010004100 1170 N. EMMET ST 1.191 AC.

SEE SHEET 8(2) FOR MEDIAN CURB TRANSITION DETAIL AT MEADOWVILLE ROAD (BARRACKS ROAD EAST STA. 106+00)

UTILITY OWNERSHIP LIST

ELECTRIC		QWEST GOVERNMENT SERVICES	CONTACT: NOAH DOBBINS
DOMINION ENERGY INC.	CONTACT: NATE HORSTICK	2900 TOWEVIEW ROAD	PHONE: (703) 464-7529
1719 HYDRAULIC ROAD	EMAIL: nathaniel.d.horstick@dominionenergy.com	HERNDON, VA 20171	EMAIL: noah.dobbins@centurylink.com
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	EMAIL: michael.moncreiffe@dominionenergy.com	CATV	
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CENTURY LINK	CONTACT: THERESA BRYANT	400 WESTFIELD ROAD	PHONE: (434) 951-3812
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CHARLOTTESVILLE, VA 22903	EMAIL: theresa.bryant@centurylink.com		
		WATER	
VERIZON BUSINESS	CONTACT: GENE MULLER	CITY OF CHARLOTTESVILLE	CONTACT: ROY NESTER
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	EMAIL: gene.muller@verizon.com	CHARLOTTESVILLE, VA 22902	EMAIL: nesterr@charlottesville.org
FIBER			
CROWN CASTLE	CONTACT: RICK STRANSKY	GAS	
1500 CORPORATE DRIVE	EMAIL: rick.stransky@crowncastle.com	CITY OF CHARLOTTESVILLE	CONTACT: ROY NESTER
CANONSBURG, PA 15317		605 E MAIN ST	PHONE: (434) 970-3908
		CHARLOTTESVILLE, VA 22902	EMAIL: nesterr@charlottesville.org
FIBERLIGHT	CONTACT: AMALFI ARIAS		
3000 SUMMIT PLACE, SUITE 200	EMAIL: amalfi.arias@fiberlight.com	TRAFFIC CONTROL	
ALPHARETTA, GA 30009		CITY OF CHARLOTTESVILLE	CONTACT: ROY NESTER
		605 E MAIN ST	PHONE: (434) 970-3908
SEGRA	CONTACT: DEAN SCHEIDT	CHARLOTTESVILLE, VA 22902	EMAIL: nesterr@charlottesville.org
1 LUMOS PLAZA	PHONE: (804) 297-3017		
WAYNESBORO, VA 22980	EMAIL: dean.scheidt@segra.com		
TING	CONTACT: KYLE VRHOVAC		
	PHONE: (434) 327-7347		
	EMAIL: kyle@ting.com		

SANITARY SEWER STRUCTURES

#3360 SANITARY MH RIM=446.76' INV OUT= 44.01' (6" DI TO 8" TC (TO POSSIBLE BLIND CONNECTION - #3904 TO #7764))
#3904 SANITARY MH RIM=448.32' INV IN= 444.00' (8" TC FROM #7770) INV OUT= 443.96' (8" TC TO #7764)
#7370 RIM=441.53' SANITARY MH INV OUT= 439.42' (4" TC TO #8000)
#7764 SANITARY MH RIM=442.42' INV IN= 440.02' (4" TC FROM SW) INV IN= 439.56' (8" TC FROM #3904) INV OUT= 439.51' (8" DI TO #8001)
#7770 SANITARY MH RIM=458.62' INV OUT= 453.89' (8"TC TO #3904)
#7818 SANITARY MH OFFSITE RIM=461.30' INV IN= 444.84' (4" TC FROM SE) INV OUT= 444.87' (6" TC TO #7700)
#8000 RIM=441.14' SANITARY MH INV IN= 439.10' (8" DI FROM #7764) INV IN= 439.12' (4" TC FROM #7370) INV OUT= 439.07' (8" DI TO #8000)
#10003 (OFFSITE) SANITARY MH RIM=446.21' INV OUT= 433.66' (18" from #6251)

STORM SEWER STRUCTURES

#1874 STORM MH RIM=441.00' PIPES RECESSED - INACCESSIBLE) C/L STRUCTURE= 435.88'
#1907 STORM MH RIM=441.37' (PIPES RECESSED - INACCESSIBLE) C/L STRUCTURE= 436.57'
#2031 GRATE INLET TOP=442.90' INV IN= 439.02' (15" RCP FROM A.D.) INV OUT= 439.01' (15" RCP TO #1907)
#2034 GRATE INLET TOP=444.05' INV OUT= 438.23' (30" RCP TO #1907)
#2872 STORM MH RIM=436.48' INV IN= 433.09' (12" PVC FROM #7355) INV OUT= 433.07' (24" RCP TO #7219)
#7201 STORM MH RIM=435.86' INV IN= 431.71' (24" RCP FROM #7219) INV OUT= 431.66' (24" RCP TO NW)

SHEET REFERENCES

ALIGNMENT DATA SHEET	1B
EXIST. CONDITIONS & DEMOLITION PLAN	1C(4)
MAINTENANCE OF TRAFFIC PLANS	1E SERIES
TYPICAL SECTIONS	2A(1) - 2A(2)
EROSION & SEDIMENT CONTROL PLAN	2B(4)
DRAINAGE AREA MAPS	2C(1) - 2C(6)
BARRACKS ROAD PROFILE SHEET	4A
UTILITY PLAN SHEET	4B
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
PAVEMENT MARKING & SIGNING PLAN	9(4)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS01 - XS13

KEY LEGEND

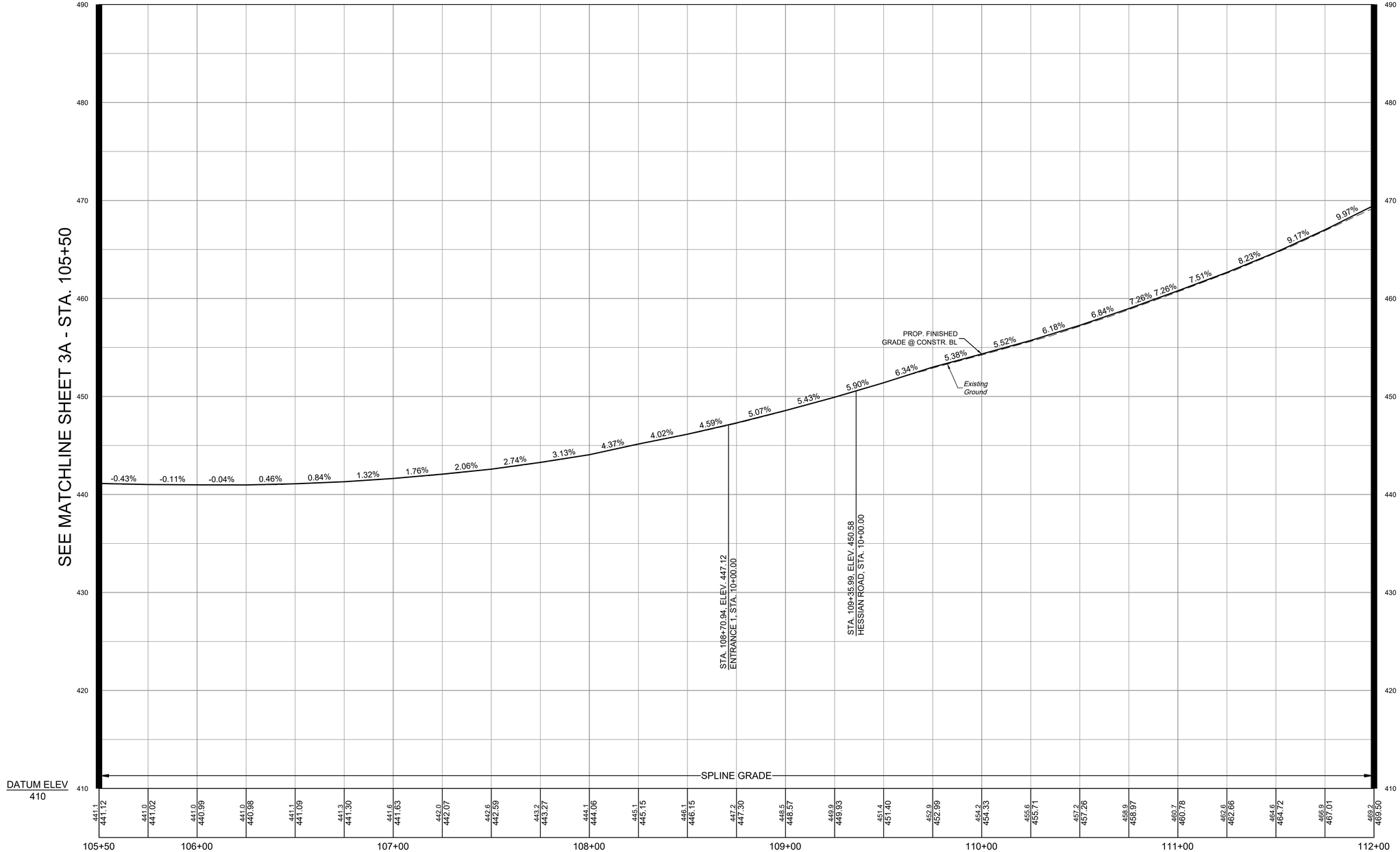
1. CONC. SIDEWALK/SHARED USE PATH REQ'D. (CITY MIX CLASS A 3500 CONC.)
2. ST'D. CITY OF CHARLOTTESVILLE CURB & GUTTER REQ'D.
3. ST'D. CITY OF CHARLOTTESVILLE CURB REQ'D.
4. ST'D. VDOT CG-12 TYPE A CURB RAMP REQ'D.
5. ST'D. VDOT CG-12 TYPE B CURB RAMP REQ'D.
6. ST'D. VDOT CG-12 TYPE C CURB RAMP REQ'D.
7. ST'D. VDOT CG-12 TYPE M2 MEDIAN REFUGE ISLAND REQ'D.
8. ST'D. VDOT CG-12 TYPE R/2 REFUGE ISLAND REQ'D.
9. MOD. WP-2 SAWCUT REQ'D. (2' MINIMUM)
10. SOLDIER PILE RETAINING WALL REQ'D.
11. CANTILEVER RETAINING WALL REQ'D.
12. ST'D. MS-2 MEDIAN STRIP REQ'D.

NEW FULL DEPTH PAVEMENT
CONCRETE SIDEWALK
CONCRETE ENTRANCE PAVEMENT
DETECTABLE WARNING SURFACE
PAVEMENT RESURFACING
CONSTR. LIMITS: F C (FILL) (CUT)
PROP. MOD. PG-2A DITCH (2:1 SIDE SLOPES, 6" DEPTH)
PROP. RIGHT-OF-WAY
PERMANENT EASEMENT
TEMPORARY EASEMENT

SCALE 1"=25'
0 25' 50'

Project #: NHPP-5104(275)
UPC: 111796

BARRACKS ROAD - EAST



60% PLANS

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REVISION DESCRIPTION	DATE
30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS	3/20/2020
60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	7/31/2020
60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	2/12/2021

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: AS SHOWN

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
BARRACKS ROAD PROFILE

JOB NO. 43569
SHEET NO. 4A

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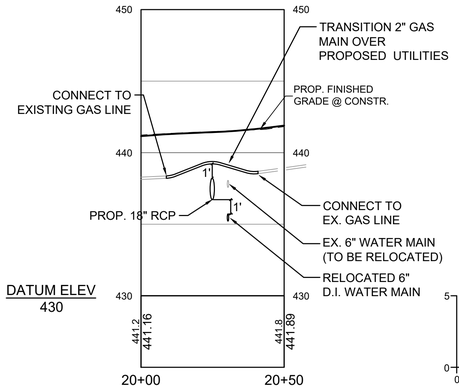
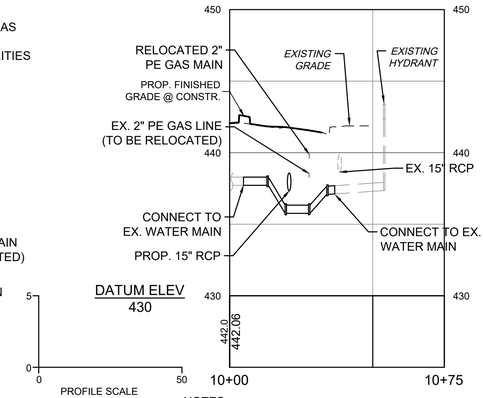
2 IN GAS LINE



NOTES:

1. ALL DISRUPTIONS IN GAS SERVICE SHALL BE COORDINATED WITH THE CITY OF CHARLOTTESVILLE UTILITY DEPARTMENT.
2. ALL WORK ASSOCIATED WITH THE CITY GAS LINES AND SERVICES SHALL BE PERFORMED BY A QUALIFIED, APPROVED CONTRACTOR.
3. MAINTAIN 12" MIN. CLEARANCE BETWEEN THE RELOCATED WATER MAIN, RELOCATED GAS MAIN AND PROPOSED STORM SEWER.

6 IN WATER LINE



NOTES:

1. ALL JOINTS AND FITTINGS SHALL BE RESTRAINED.
2. ALL HORIZONTAL AND VERTICAL OFFSETS ARE TO BE 45° BENDS. ROTATE BENDS AS NECESSARY.

UTILITY OWNERSHIP LIST

ELECTRIC
DOMINION ENERGY INC.
1719 HYDRAULIC ROAD
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PHONE: (434) 970-3908
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Project #: NHPP-5104(275)
UPC: 111796

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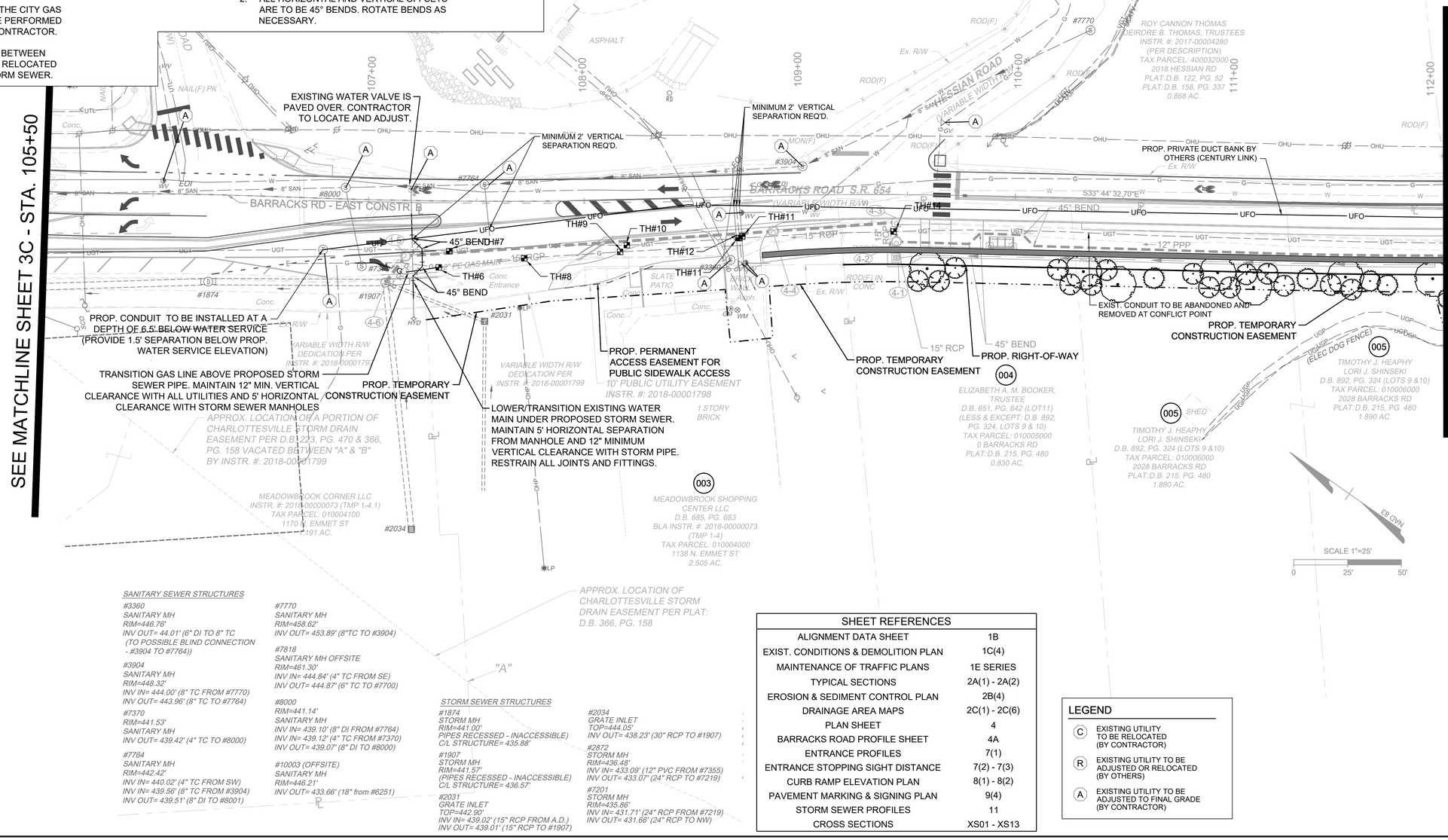
SEE MATCHLINE SHEET 3C - STA. 105+50
SEE MATCHLINE SHEET 5B - STA. 112+00
BARRACKS ROAD S.R. 654
(VARIABLE WIDTH R/W)
HESSIAN ROAD
(VARIABLE WIDTH R/W)
BARRACKS RD - EAST CONSTR B
105+50
106+00
107+00
108+00
109+00
110+00
111+00
112+00
EXISTING WATER VALVE IS PAVED OVER. CONTRACTOR TO LOCATE AND ADJUST.
MINIMUM 2' VERTICAL SEPARATION REQ'D.
MINIMUM 2' VERTICAL SEPARATION REQ'D.
PROP. PRIVATE DUCT BANK BY OTHERS (CENTURY LINK)
EXIST. CONDUIT TO BE ABANDONED AND REMOVED AT CONFLICT POINT
PROP. TEMPORARY CONSTRUCTION EASEMENT
PROP. CONDUIT TO BE INSTALLED AT A DEPTH OF 6.5' BELOW WATER SERVICE (PROVIDE 1.5' SEPARATION BELOW PROP. WATER SERVICE ELEVATION)
TRANSITION GAS LINE ABOVE PROPOSED STORM SEWER PIPE. MAINTAIN 12" MIN. VERTICAL CLEARANCE WITH ALL UTILITIES AND 5' HORIZONTAL CLEARANCE WITH STORM SEWER MANHOLES
PROP. TEMPORARY CONSTRUCTION EASEMENT
PROP. PERMANENT ACCESS EASEMENT FOR PUBLIC SIDEWALK ACCESS 10' PUBLIC UTILITY EASEMENT INSTR. #: 2018-00001798
LOWER/TRANSITION EXISTING WATER MAIN UNDER PROPOSED STORM SEWER. MAINTAIN 5' HORIZONTAL SEPARATION FROM MANHOLE AND 12" MINIMUM VERTICAL CLEARANCE WITH STORM PIPE. RESTRAIN ALL JOINTS AND FITTINGS.
PROP. TEMPORARY CONSTRUCTION EASEMENT
PROP. RIGHT-OF-WAY
15" RCP
45° BEND
45° BEND
45° BEND#7
TH#6
TH#8
TH#9
TH#10
TH#11
TH#12
TH#14
#1874
#1907
#2031
#2034
#7764
#7770
#8000
#3904
#7370
#7818
#10003
#2872
#7201
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DATE 06/18/2021
DRAWN BY KJH
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CHECKED BY BTC
SCALE 1"=25'

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

PLAN SHEET

JOB NO. 43569
SHEET NO. 5

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5-1 1 - 30" NYLOPLAST BASIN (OR EQUIVALENT) REQ'D. INV. = 491.8', H = 2.1', 2 TONS CLASS A1 RIP-RAP REQ'D. 1 - UNDERDRAIN CONNECTION REQ'D.

5-1 5-2 319' - 12" POLYPROPYLENE (PP) PIPE TYPE S REQ'D. INV. (IN) = 491.8', INV. (OUT) = 471.8' COVER = 1' & VAR. 45° WYE AT 312' ALONG PIPE

5-2 1 - 30" NYLOPLAST BASIN (OR EQUIVALENT) REQ'D. INV. = 471.9', H = 2.1', 2 TONS CLASS A1 RIP-RAP REQ'D. 1 - UNDERDRAIN CONNECTION REQ'D.

5-2 4-1 296' - 12" POLYPROPYLENE (PP) PIPE TYPE S REQ'D. INV. (IN) = 471.9', INV. (OUT) = 449.7' COVER = 1' & VAR. 45° WYE AT 289' ALONG PIPE

SEE MATCHLINE SHEET 4 - STA. 112+00

SEE MATCHLINE SHEET 6 - STA. 118+50

BARRACKS ROAD - EAST CURVE 6
Δ = 5°07'59"
R = 3012.00
T = 135.01
L = 269.84
C = 269.75
PC = 111+28.07
PI = 112+63.08
PT = 113+97.91

BARRACKS ROAD - EAST CURVE 7
Δ = 10°02'53"
R = 588.00
T = 51.69
L = 103.12
C = 102.99
PC = 114+23.82
PI = 114+75.51
PT = 115+26.94

BARRACKS ROAD - EAST CURVE 8
Δ = 11°05'31"
R = 1012.00
T = 98.26
L = 195.91
C = 195.61
PC = 116+26.68
PI = 117+24.94
PT = 118+22.59

BLUE RIDGE ROAD (VARIABLE WIDTH R/W)

BARRACKS ROAD S.R. 654

BARRACKS RD - EAST CONSTR. B

BARRACKS ROAD S.R. 654

S38° 52' 31.51"E

S28° 49' 38.58"E

S39° 55' 09.53"E

FREDERICK G. RIBBLE
ANNE BENEDICTA GOODSON
D.B. 374, PG. 277
PLAT: D.B. 360, PG. 597
TAX PARCEL: 400031000
2014 HESSIAN RD
PLAT:D.B. 158, PG. 337
0.813 AC.

10' STRIP - N/F RED-LAND LAND CORPORATION, D.B. 152, PG. 220, PLAT: D.B. 106, PG. 362 PLAT: D.B. 360, PG. 597

ANDREW DUNNINGTON
MOLLY DUNNINGTON
INSTR. #: 2012-005046
PLAT: D.B. 106, PG. 362
TAX PARCEL: 400030000
2010 HESSIAN RD
PLAT:D.B. 158, PG. 337
0.759 AC.

LOT 83-B

LOT 83 (IN PART)
"MEADOWBROOK HILLS"
PLAT: D.B. 158, PG. 337
0.710 AC.

GREGORY ORR
PATRICA ORR
D.B. 522, PG. 817
PLAT: D.B. 522, PG. 820 (PARCEL B1)
D.B. 457, PG. 777
PLAT: D.B. 126, PG. 181 (LOT 83-B)
TAX PARCEL: 400028000
2006 HESSIAN RD
PLAT:D.B. 158, PG. 337
0.710 AC.

J. DAVID SUMMERS
NANCY E. SUMMERS
D.B. 522, PG. 817
PLAT: D.B. 522, PG. 820 (PARCEL B2)
D.B. 451, PG. 36
PLAT: D.B. 451, PG. 38 (PARCEL A)
TAX PARCEL: 400029000
1201 BLUE RIDGE RD
PLAT:D.B. 158, PG. 337
1.017 AC.

PARCEL A
LOT 84 (IN PART)
"MEADOWBROOK HILLS"
1.017 AC.

006 L.S.A.
GREGORY A. MENKE
CHRISTINA P. MENKE
D.B. 430, PG. 456 (LOTS 7 & 8)
PLAT: D.B. 256, PG. 347
TAX PARCEL: 010007000
1930 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.069 AC.

005 TIMOTHY J. HEAPHY
LORI J. SHINSEKI
D.B. 892, PG. 324 (LOTS 9 &10)
TAX PARCEL: 010006000
2028 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.890 AC.

006
GREGORY A. MENKE
CHRISTINA P. MENKE
D.B. 430, PG. 456 (LOTS 7 & 8)
PLAT: D.B. 256, PG. 347
TAX PARCEL: 010007000
1930 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.069 AC.

007
THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14 (LOT 6 & NW 25' OF LOT 5)
TAX PARCEL: 010008000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.369 AC.

007
THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14 (LOT 6 & NW 25' OF LOT 5)
TAX PARCEL: 010008000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.369 AC.

007
THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14 (LOT 6 & NW 25' OF LOT 5)
TAX PARCEL: 010009000
1920 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.026 AC.

007
THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14 (LOT 6 & NW 25' OF LOT 5)
TAX PARCEL: 010009000
1920 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.026 AC.

007 (RETIRED)
THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14
(LOT 3)
TAX PARCEL: 020001000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.148 AC.

007
THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14
(LOT 3)
TAX PARCEL: 020002000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
0.574 AC.

ENTRANCE 2 MOD. VDOT CG-9D TYPE III ENTRANCE REQ'D. W= 12'

ENTRANCE 3 MOD. VDOT CG-9D TYPE III ENTRANCE REQ'D. W= 14'

ENTRANCE 4 MOD. VDOT CG-9D TYPE III ENTRANCE REQ'D. W= 16'

INSTALL LEVEL ASPHALT LANDING

PROP. RIGHT-OF-WAY

PROP. TEMPORARY CONSTRUCTION EASEMENT

PROP. PERMANENT DOMINION ENERGY UTILITY EASEMENT

PROP. TEMPORARY CONSTRUCTION EASEMENT

EXISTING 12" PE GAS SERVICE

EXISTING 1/2" PE GAS SERVICE (SHOWN PER CITY GIS DATA - NOT FIELD LOCATED)

(ELEC DOG FENCE)

4" PVC INV IN=481.59' INV OUT=481.57'

SCALE 1"=25'
0 25' 50'

UTILITY OWNERSHIP LIST

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TING
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SHEET REFERENCES

ALIGNMENT DATA SHEET	1B
EXIST. CONDITIONS & DEMOLITION PLAN	1C(5)
MAINTENANCE OF TRAFFIC PLANS	1E SERIES
TYPICAL SECTIONS	2A(1) - 2A(2)
EROSION & SEDIMENT CONTROL PLAN	2B(5)
DRAINAGE AREA MAPS	2C(1) - 2C(6)
BARRACKS ROAD PROFILE SHEET	5A
UTILITY PLAN SHEET	5B
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
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CONCRETE SIDEWALK
CONCRETE ENTRANCE PAVEMENT
DETECTABLE WARNING SURFACE
PAVEMENT RESURFACING

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

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PERMANENT EASEMENT
TEMPORARY EASEMENT

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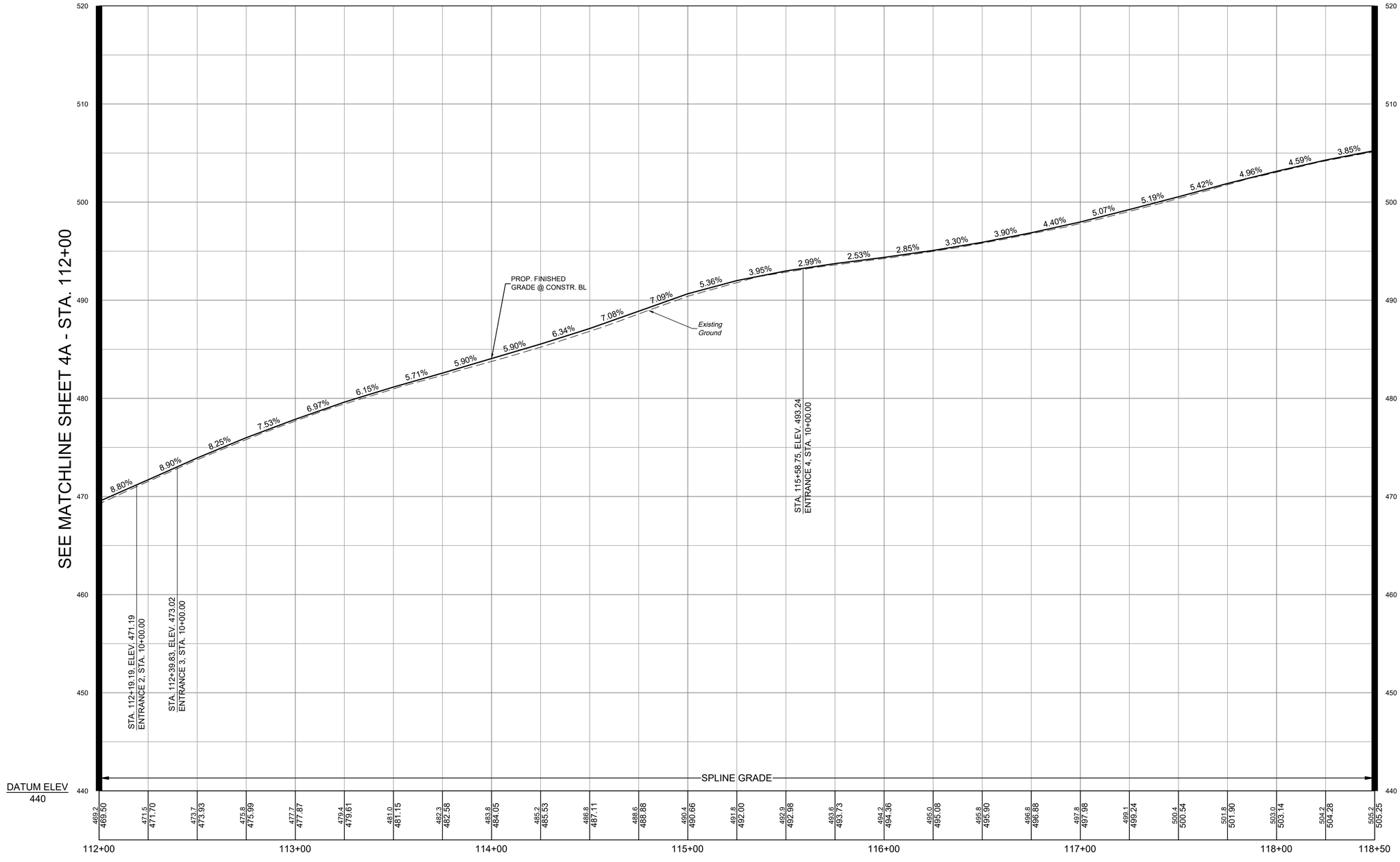

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SHEET NO. 5A

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Project #: NHPP-5104(275)
UPC: 111796

60% PLANS

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TEL. 804.200.6500 FAX. 804.560.1016 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

Site Development | Residential | Infrastructure | Technology

DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=25'

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

UTILITY PLAN SHEET

JOB NO. 43569
SHEET NO. 5B

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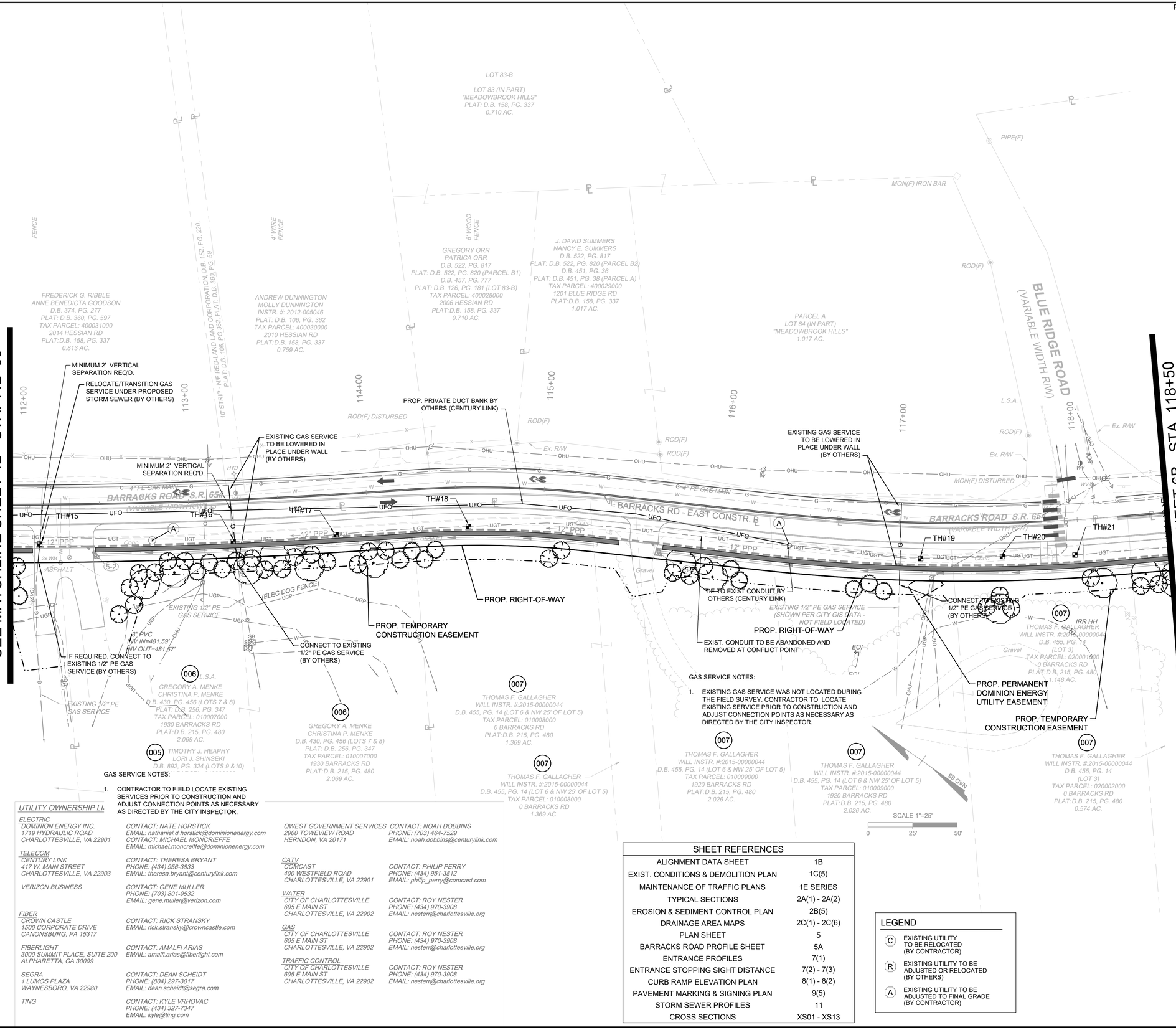

GAS SERVICE NOTES:

1. CONTRACTOR TO FIELD LOCATE EXISTING SERVICES PRIOR TO CONSTRUCTION AND ADJUST CONNECTION POINTS AS NECESSARY AS DIRECTED BY THE CITY INSPECTOR.

GAS SERVICE NOTES:

1. EXISTING GAS SERVICE WAS NOT LOCATED DURING THE FIELD SURVEY. CONTRACTOR TO LOCATE EXISTING SERVICE PRIOR TO CONSTRUCTION AND ADJUST CONNECTION POINTS AS NECESSARY AS DIRECTED BY THE CITY INSPECTOR.

UTILITY OWNERSHIP LI

ELECTRIC
DOMINION ENERGY INC.
1719 HYDRAULIC ROAD
CHARLOTTESVILLE, VA 22901
CONTACT: NATE HORSTICK
EMAIL: nathaniel.d.horstick@dominionenergy.com
CONTACT: MICHAEL MONCRIEFFE
EMAIL: michael.moncreiffe@dominionenergy.com

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EMAIL: theresa.bryant@centurylink.com

VERIZON BUSINESS
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PHONE: (703) 801-9532
EMAIL: gene.muller@verizon.com

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EMAIL: rick.stransky@crowncastle.com

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EMAIL: amalfi.arias@fiberlight.com

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EMAIL: dean.scheidt@segra.com

TING
CONTACT: KYLE VRHOVAC
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EMAIL: kyle@ting.com

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HERNDON, VA 20171
CONTACT: NOAH DOBBINS
PHONE: (703) 464-7529
EMAIL: noah.dobbins@centurylink.com

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CHARLOTTESVILLE, VA 22901
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PHONE: (434) 951-3812
EMAIL: philip_perry@comcast.com

WATER
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EMAIL: nesterr@charlottesville.org

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SHEET REFERENCES

ALIGNMENT DATA SHEET	1B
EXIST. CONDITIONS & DEMOLITION PLAN	1C(5)
MAINTENANCE OF TRAFFIC PLANS	1E SERIES
TYPICAL SECTIONS	2A(1) - 2A(2)
EROSION & SEDIMENT CONTROL PLAN	2B(5)
DRAINAGE AREA MAPS	2C(1) - 2C(6)
PLAN SHEET	5
BARRACKS ROAD PROFILE SHEET	5A
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
PAVEMENT MARKING & SIGNING PLAN	9(5)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS01 - XS13

LEGEND

- (C) EXISTING UTILITY TO BE RELOCATED (BY CONTRACTOR)
- (R) EXISTING UTILITY TO BE ADJUSTED OR RELOCATED (BY OTHERS)
- (A) EXISTING UTILITY TO BE ADJUSTED TO FINAL GRADE (BY CONTRACTOR)

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Project #: NHPP-5104(275)
UPC: 111796

60% PLANS

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CONTACT: ROY NESTER
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6-1 — 1 - 30" NYLOPLAST BASIN (OR EQUIVALENT) REQ'D.
INV. = 513.4', H = 2.1', 2 TONS CLASS A1 RIP-RAP REQ'D.

6-1 6-2 — 113' - 12" POLYPROPYLENE (PP) PIPE TYPE S REQ'D.
INV. (IN) = 513.4', INV. (OUT) = 506.2'
COVER = 1' & VAR.
45° WYE AT 106' ALONG PIPE

6-2 — 1 - 30" NYLOPLAST BASIN (OR EQUIVALENT) REQ'D.
INV. = 506.3', H = 2.1', 2 TONS CLASS A1 RIP-RAP REQ'D.

6-2 5-1 — 349' - 12" POLYPROPYLENE (PP) PIPE TYPE S REQ'D.
INV. (IN) = 506.3', INV. (OUT) = 491.6'
COVER = 1' & VAR.
45° WYE AT 342' ALONG PIPE

BARRACKS ROAD - EAST CURVE (10)
Δ = 8°57'09"
R = 480.00
T = 37.58
L = 75.00
C = 74.92
PC = 124+25.00
PI = 124+62.58
PT = 125+00.00

BARRACKS ROAD - EAST CURVE (9)
Δ = 40°37'57"
R = 412.00
T = 152.54
L = 292.18
C = 286.09
PC = 120+68.73
PI = 122+21.26
PT = 123+60.91

END PROJ.
0029-104-306 R201
STA. 124+29.69

END CONSTR.
STA. 124+27.68

SEE MATCHLINE SHEET 5 - STA. 118+50

BARRACKS RD - EAST CONSTR. ℄
BARRACKS ROAD S.R. 654
(VARIABLE WID.(R/W))
HILLTOP ROAD
(VARIABLE WIDTH R/W)
BUCKINGHAM ROAD
(VARIABLE WIDTH R/W)
S39° 55' 09.53"E
S89° 33' 06.92"E

JOE H. MILLER, IV
JENNIFER A MILLER
INSTR. #: 2016-00003676
TAX PARCEL: 390038000
1204 BLUE RIDGE RD
1.360 AC.

LOT 62
"MEADOWBROOK HILLS"
PLAT: D.B. 158, PG. 339

MARTHA STAHR CARPENTER
ALICE CARPENTER MOAT, TRUSTEES
D.B. 1148, PG. 486
PLAT: D.B. 250, PG. 489 (LOT 61 B)
TAX PARCEL: 390038100
1101 HILLTOP RD
PLAT:D.B. 158, PG. 337
0.862 AC.

CORNELIA D. JOHNSON
JAMES P. ROBINSON
D.B. 733, PG. 187
PLAT: D.B. 148, PG. 425 (LOT A-1)
TAX PARCEL: 390037000
1100 HILLTOP RD
PLAT:D.B. 158, PG. 339
0.530 AC.

JOHN CURRIE MASON
JANE HOLLAND McBRYDE MASON
D.B. 1255, PG. 84
(LOT 1 & SE HALF OF LOT 2)
TAX PARCEL: 020003000
1910 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.372 AC.

JOHN CURRIE MASON
JANE HOLLAND McBRYDE MASON
D.B. 1255, PG. 84
(LOT 1 & SE HALF OF LOT 2)
TAX PARCEL: 020003000
1910 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.372 AC.

THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14
(LOT 3)
TAX PARCEL: 020002000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
0.574 AC.

MIRKO VENTURES, LLC
D.B. 2019, PG. 3600
PLAT: D.B. 288, PG. 493
(LOT 1)
TAX PARCEL: 020004000
120 BUCKINGHAM RD
0.555 AC.

LOT 1
"RUGBY SIDE"
PLAT: D.B. 109, PG. 306

ELEANOR H. KETT
D.B. 617, PG. 172
PLAT: D.B. 473, PG. 710 (LOTS 2 & 3)
TAX PARCEL: 020005000
128 BUCKINGHAM RD
0.908 AC.

LOT 2
"RUGBY SIDE"
PLAT: D.B. 109, PG. 306

ELEANOR H. KETT
D.B. 617, PG. 172
PLAT: D.B. 473, PG. 710 (LOTS 2 & 3)
TAX PARCEL: 020005000
128 BUCKINGHAM RD
0.908 AC.

LOT 3
"RUGBY SIDE"
PLAT: D.B. 109, PG. 306

MATTHEW J. GERBER
INSTR. #: 2013-000395
TAX PARCEL: 020007000
104 BUCKINGHAM RD
PLAT:D.B. 109, PG. 306
0.509 AC.

TIE PROP. CURB TO EX. CURB AND PROP. SIDEWALK TO EX. SIDEWALK
PROP. RIGHT-OF-WAY
PROP. TEMPORARY CONSTRUCTION EASEMENT
TIE TO EX. CURB AND GUTTER
PROP. PERMANENT DOMINION ENERGY UTILITY EASEMENT
PROP. RIGHT-OF-WAY
PROP. TEMPORARY CONSTRUCTION EASEMENT
PROP. FENCE RELOCATION (TYPE/HEIGHT TO BE DETERMINED)
PROP. PERMANENT DOMINION ENERGY UTILITY EASEMENT
PROP. PERMANENT DOMINION ENERGY UTILITY EASEMENT
PROP. RIGHT-OF-WAY
PROP. TEMPORARY CONSTRUCTION EASEMENT
PROP. RIGHT-OF-WAY
TYPE III ENTRANCE 5 MOD. VDOT CG-9D REQ'D. W = 12'
TYPE III ENTRANCE 6 MOD. VDOT CG-9D REQ'D. W = 13'
EXISTING 1" SERVICE
INV IN=515.11'
INV OUT=515.61'

4' SPLIT RAIL FENCE
6' WOOD FENCE
CINDER BLOCK WALL
1 ½ STORY BRICK & FRAME
CONC. WALK
2 STORY BRICK
BRICK WALK
CONC. WALK
BRICK WALL
5' WIRE FENCE
1 STORY FRAME W/ BASEMENT
CARPORT ASPHALT
3.5' WOOD FENCE
BRICK WALL
6' WOOD FENCE
6' WOOD FENCE
STONE WALL
STONE WALL
BRICK WALL

SHEET REFERENCES	
ALIGNMENT DATA SHEET	1B
EXIST. CONDITIONS & DEMOLITION PLAN	1C(6)
MAINTENANCE OF TRAFFIC PLANS	1E SERIES
TYPICAL SECTIONS	2A(1) - 2A(2)
EROSION & SEDIMENT CONTROL PLAN	2B(6)
DRAINAGE AREA MAPS	2C(1) - 2C(6)
BARRACKS ROAD PROFILE SHEET	6A
UTILITY PLAN SHEET	6B
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
PAVEMENT MARKING & SIGNING PLAN	9(6)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS01 - XS13

KEY LEGEND
1. CONC. SIDEWALK/SHARED USE PATH REQ'D. (CITY MIX CLASS A 3500 CONC.)
2. ST'D. CITY OF CHARLOTTESVILLE CURB & GUTTER REQ'D.
3. ST'D. CITY OF CHARLOTTESVILLE CURB REQ'D.
4. ST'D. VDOT CG-12 TYPE A CURB RAMP REQ'D.
5. ST'D. VDOT CG-12 TYPE B CURB RAMP REQ'D.
6. ST'D. VDOT CG-12 TYPE C CURB RAMP REQ'D.
7. ST'D. VDOT CG-12 TYPE M2 MEDIAN REFUGE ISLAND REQ'D.
8. ST'D. VDOT CG-12 TYPE RI2 REFUGE ISLAND REQ'D.
9. MOD. WP-2 SAWCUT REQ'D. (2' MINIMUM)
10. SOLDIER PILE RETAINING WALL REQ'D.
11. CANTILEVER RETAINING WALL REQ'D.
12. ST'D. MS-2 MEDIAN STRIP REQ'D.

NEW FULL DEPTH PAVEMENT
CONCRETE SIDEWALK
CONCRETE ENTRANCE PAVEMENT
DETECTABLE WARNING SURFACE
PAVEMENT RESURFACING
CONSTR. LIMITS: F C (FILL) (CUT)
PROP. MOD. PG-2A DITCH (2:1 SIDE SLOPES, 6" DEPTH)
PROP. RIGHT-OF-WAY
PERMANENT EASEMENT
TEMPORARY EASEMENT

NAD 83
SCALE 1"=25'
0 25' 50'

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DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE 06/18/2021
DRAWN BY KJH
DESIGNED BY KJH
CHECKED BY BTC
SCALE 1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

PLAN SHEET

JOB NO. 43569
SHEET NO. 6

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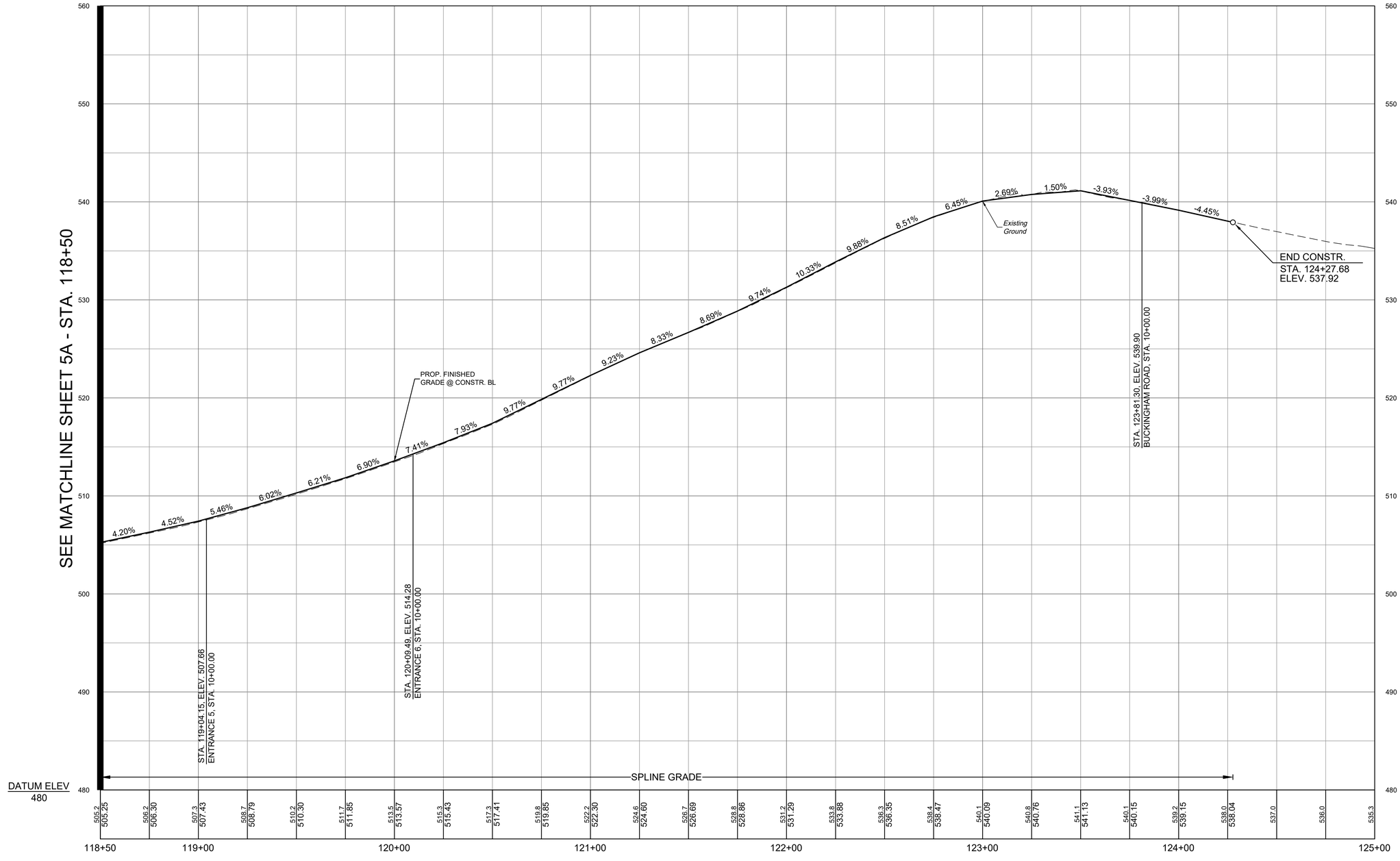
Project #: NHPP-5104(275)
UPC: 111796

BARRACKS ROAD - EAST



5
0
0 25
PROFILE SCALE

L:\20343569-Barracks_Emmet_Imp\DWG\Sheet\CD43569-203C-03Ax.dwg | Plotted on 6/18/2021 12:14 PM | by Kyle Hogan

60% PLANS

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60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	7/31/2020
60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	2/12/2021

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: AS SHOWN

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
BARRACKS ROAD PROFILE

JOB NO. 43569
SHEET NO. 6A

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SEE MATCHLINE SHEET 5B - STA. 118+50

CUT, PLUG AND ABANDON EXISTING WATER SERVICES IN PLACE
RELOCATED WATER SERVICE CONNECTIONS
RELOCATED 1/2" PE GAS SERVICE CONNECTION (BY OTHERS)
CUT, PLUG AND ABANDON EXISTING GAS SERVICE IN PLACE (BY OTHERS)
CUT, PLUG AND ABANDON EXISTING WATER SERVICE IN PLACE
RELOCATED WATER SERVICE CONNECTION
EXIST. CONDUIT TO BE ABANDONED AND REMOVED AT CONFLICT POINT
PROP. PERMANENT DOMINION ENERGY UTILITY EASEMENT
PROP. RIGHT-OF-WAY
PROP. TEMPORARY CONSTRUCTION EASEMENT
NEW WATER METERS
NEW WATER SERVICE LINES
NEW 1/2" PE GAS SERVICE (BY OTHERS)
CONNECT TO EXISTING 1/2" PE GAS SERVICE (BY OTHERS)
CONNECT TO EXISTING WATER SERVICE (TYP.)
NEW WATER SERVICE LINE
NEW WATER METER
TH#22
EXISTING 1" GAS SERVICE

GAS SERVICE NOTES

1. CONTRACTOR TO FIELD LOCATE EXISTING SERVICES PRIOR TO CONSTRUCTION AND ADJUST CONNECTION POINTS AS NECESSARY AS DIRECTED BY THE CITY INSPECTOR.

WATER SERVICE NOTES:

1. CONTRACTOR TO LOCATE EXISTING SERVICES ON THE PRIVATE SIDE OF THE METER PRIOR TO CONSTRUCTION AND ADJUST CONNECTION POINTS AS NECESSARY AS DIRECTED BY THE CITY INSPECTOR.
2. THE EXISTING METERS ARE TO BE RETURNED TO THE CITY UTILITY DEPARTMENT AND NEW METERS INSTALLED AS DIRECTED BY THE CITY INSPECTOR.

JOE H. MILLER, IV
JENNIFER A MILLER
INSTR. #: 2016-00003676
TAX PARCEL: 390038000
1204 BLUE RIDGE RD
1.360 AC.
LOT 62
"MEADOWBROOK HILLS"
PLAT: D.B. 158, PG. 339

JOHN CURRIE MASON
JANE HOLLAND McBRYDE MASON
D.B. 1255, PG. 84
(LOT 1 & SE HALF OF LOT 2)
TAX PARCEL: 020003000
1910 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.372 AC.

MARTHA STAHR CARPENTER
ALICE CARPENTER MOAT, TRUSTEES
D.B. 1148, PG. 486
PLAT: D.B. 250, PG. 489 (LOT 61 B)
TAX PARCEL: 390038100
1101 HILLTOP RD
PLAT:D.B. 158, PG. 337
0.862 AC.

CORNELIA D. JOHNSON
JAMES P. ROBINSON
D.B. 733, PG. 187
PLAT: D.B. 148, PG. 425 (LOT A-1)
TAX PARCEL: 390037000
1100 HILLTOP RD
PLAT:D.B. 158, PG. 339
0.530 AC.

MIRKO VENTURES, LLC
D.B. 2019, PG. 3600
PLAT: D.B. 288, PG. 493
(LOT 1)
TAX PARCEL: 020004000
120 BUCKINGHAM RD
0.555 AC.
LOT 1
"RUGBY SIDE"
PLAT: D.B. 109, PG. 306

ELEANOR H. KETT
D.B. 617, PG. 172
PLAT: D.B. 473, PG. 710 (LOTS 2 & 3)
TAX PARCEL: 020005000
128 BUCKINGHAM RD
0.908 AC.
LOT 3
"RUGBY SIDE"
PLAT: D.B. 109, PG. 306

MATTHEW J. GERBER
INSTR. #: 2013-000395
TAX PARCEL: 020007000
104 BUCKINGHAM RD
PLAT:D.B. 109, PG. 306
0.509 AC.

END PROJ.
0029-104-306 R201
STA. 124+29.69

HILLTOP ROAD (VARIABLE WIDTH R/W)
BARRACKS ROAD S.R. 654 (VARIABLE WIDTH R/W)
BUCKINGHAM ROAD (VARIABLE WIDTH R/W)
BARRACKS RD - EAST CONSTR. B
S39° 55' 09.53"E

4' SPLIT RAIL FENCE
6' WOOD FENCE
5' WIRE FENCE
6' WOOD FENCE
3.5' WOOD FENCE
BRICK WALL
CONC. WALK
CINDER BLOCK WALL
BRICK WALK
CARPORT ASPHALT
1 STORY FRAME W/ BASEMENT
2 STORY BRICK
1 ½ STORY BRICK & FRAME

SCALE 1"=25'
0 25' 50'

SHEET REFERENCES	
ALIGNMENT DATA SHEET	1B
EXIST. CONDITIONS & DEMOLITION PLAN	1C(6)
MAINTENANCE OF TRAFFIC PLANS	1E SERIES
TYPICAL SECTIONS	2A(1) - 2A(2)
EROSION & SEDIMENT CONTROL PLAN	2B(6)
DRAINAGE AREA MAPS	2C(1) - 2C(6)
BARRACKS ROAD PROFILE SHEET	6A
UTILITY PLAN SHEET	6B
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
PAVEMENT MARKING & SIGNING PLAN	9(6)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS01 - XS13

LEGEND
(C) EXISTING UTILITY TO BE RELOCATED (BY CONTRACTOR)
(R) EXISTING UTILITY TO BE ADJUSTED OR RELOCATED (BY OTHERS)
(A) EXISTING UTILITY TO BE ADJUSTED TO FINAL GRADE (BY CONTRACTOR)

60% PLANS

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2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE 06/18/2021
DRAWN BY KJH
DESIGNED BY KJH
CHECKED BY BTC
SCALE 1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
UTILITY PLAN SHEET

JOB NO. 43569
SHEET NO. 6B

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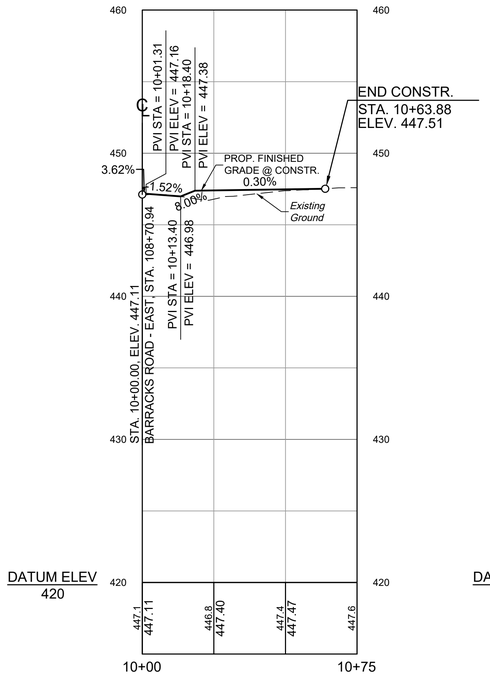
Project #: NHPP-5104(275)
UPC: 111796

ENTRANCE 1



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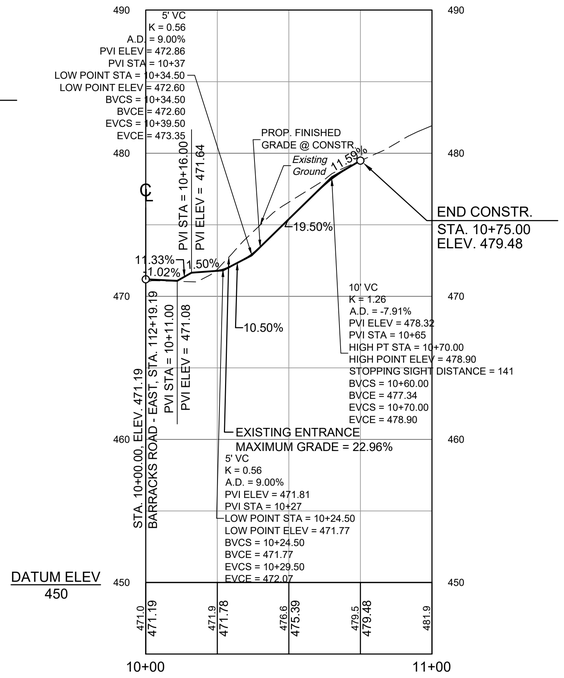

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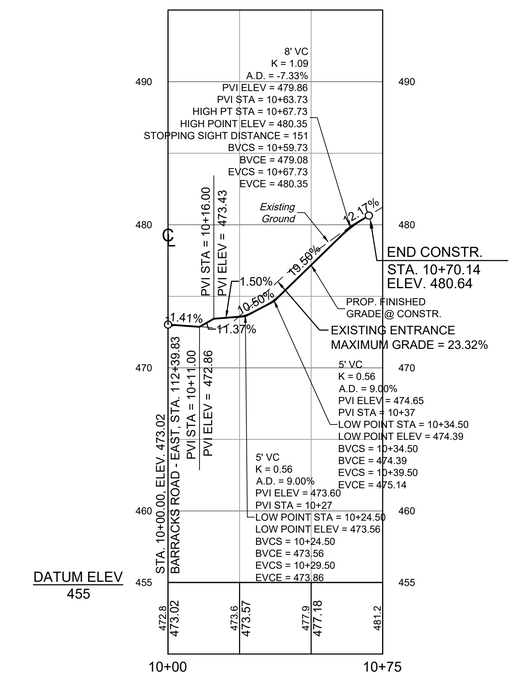

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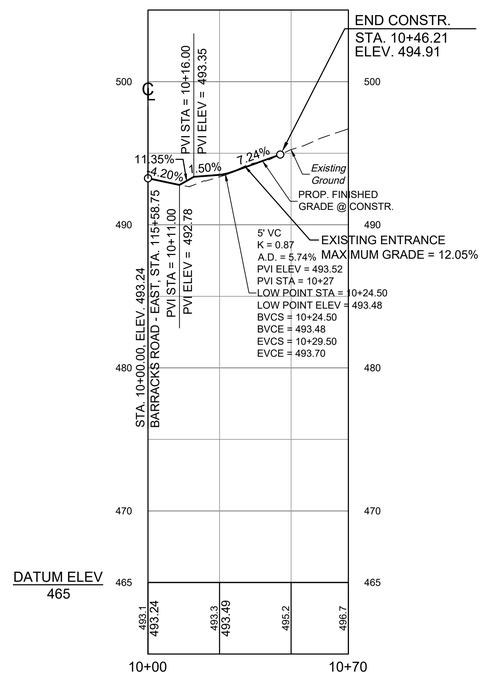

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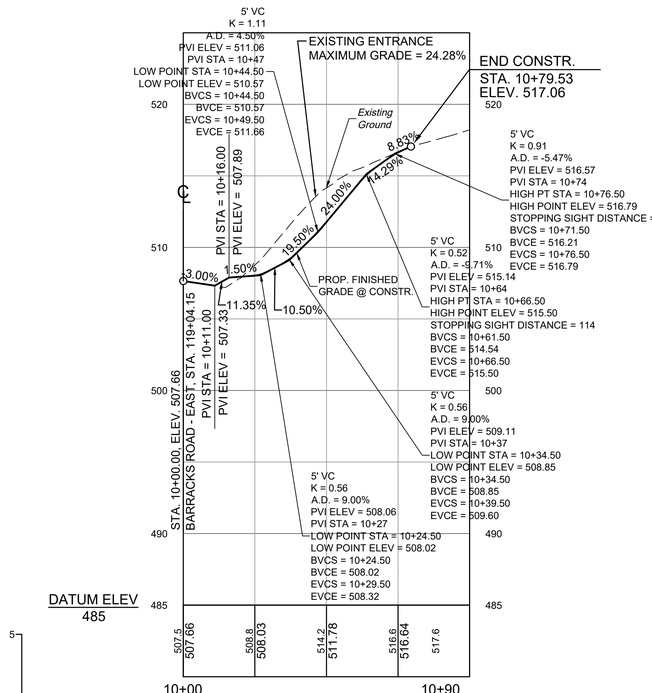
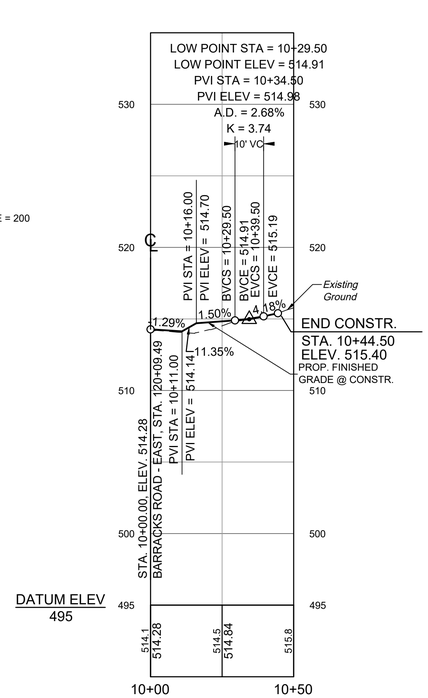
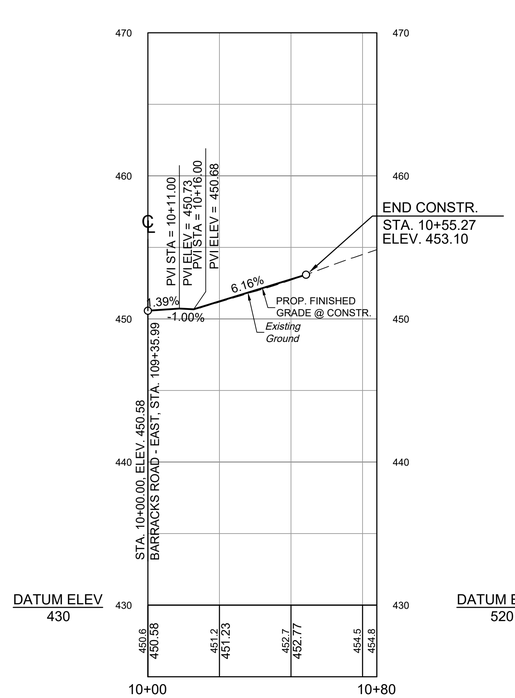
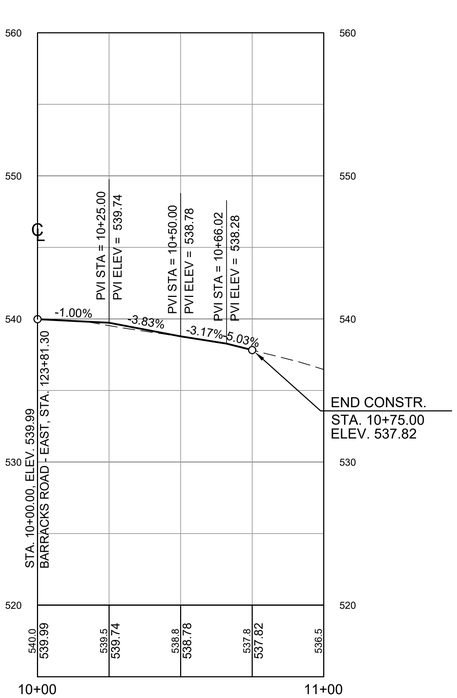


ENTRANCE 6



HESSIAN ROAD BUCKINGHAM ROAD





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DATE
06/18/2021

DRAWN BY
KJH

DESIGNED BY
KJH

CHECKED BY
BTC

SCALE
AS SHOWN

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
ENTRANCE PROFILES

JOB NO.
43569

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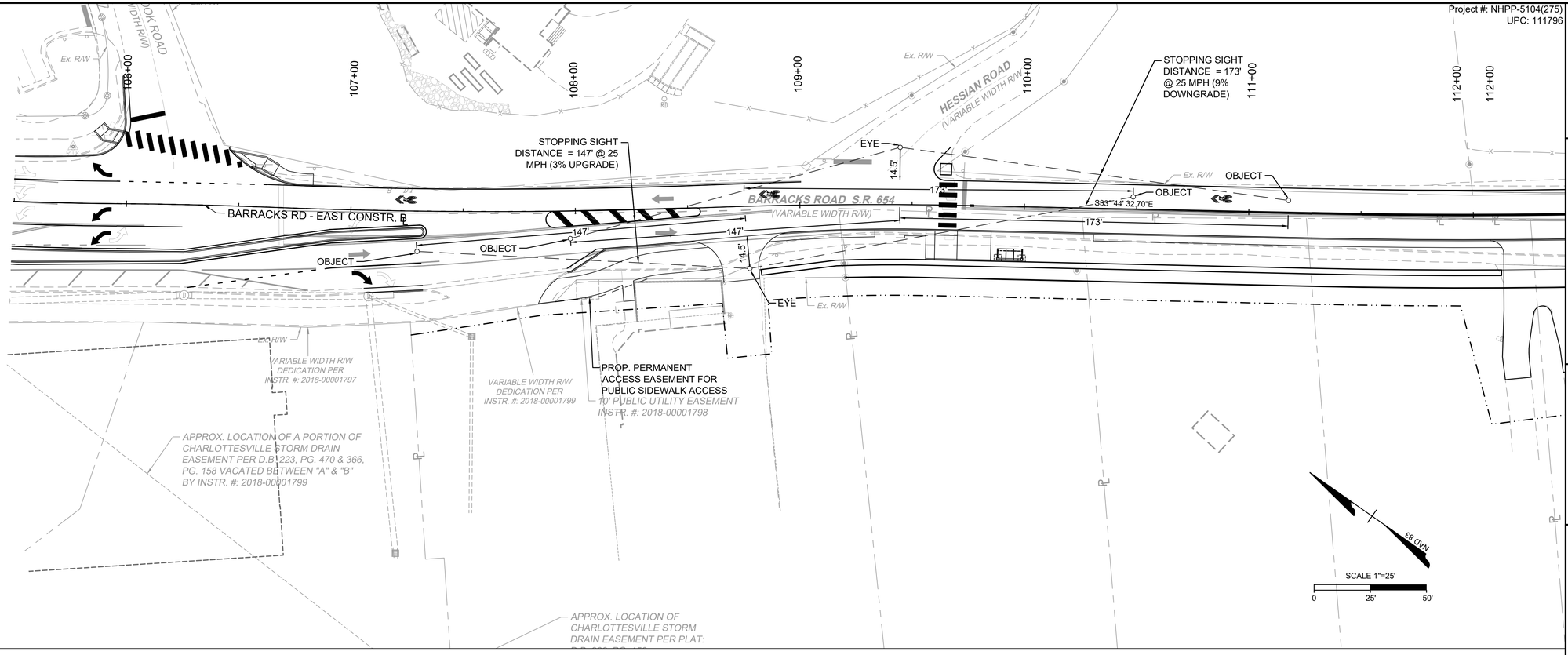
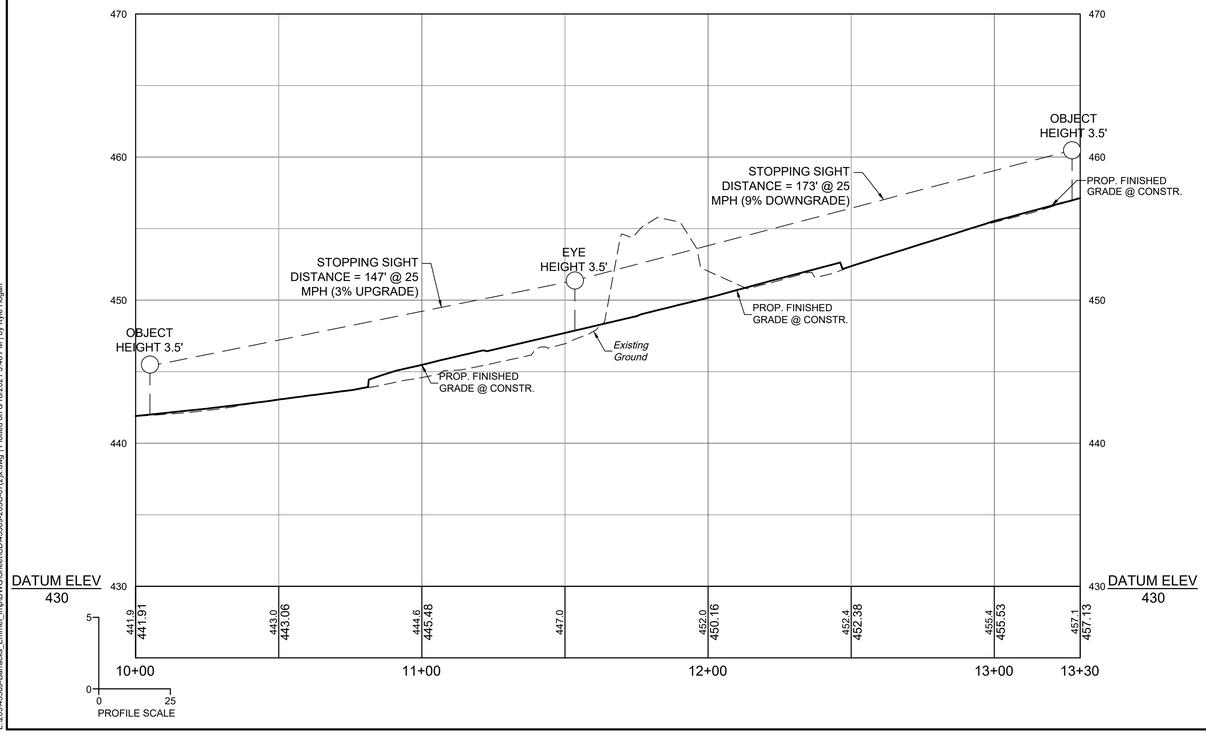
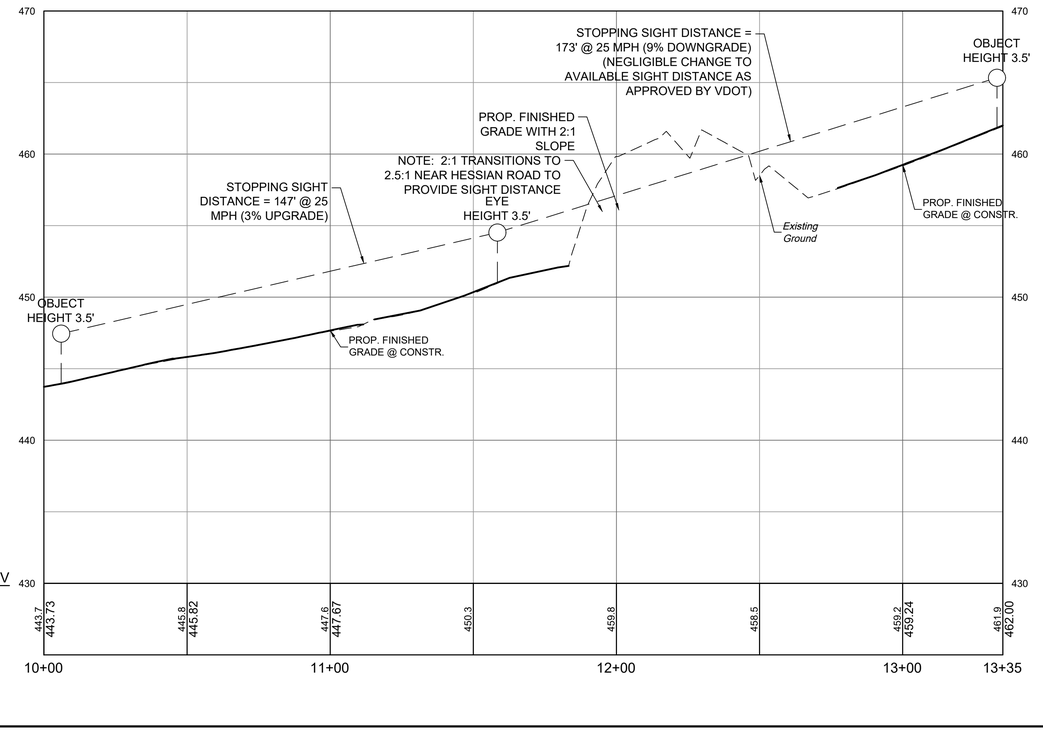


ENTRANCE 1 STOPPING SIGHT DISTANCE



HESSIAN ROAD STOPPING SIGHT DISTANCE



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DATE 06/18/2021
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DESIGNED BY KJH
CHECKED BY BTC
SCALE AS SHOWN

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BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
ENTRANCE STOPPING SIGHT DISTANCE PLAN & PROFILE

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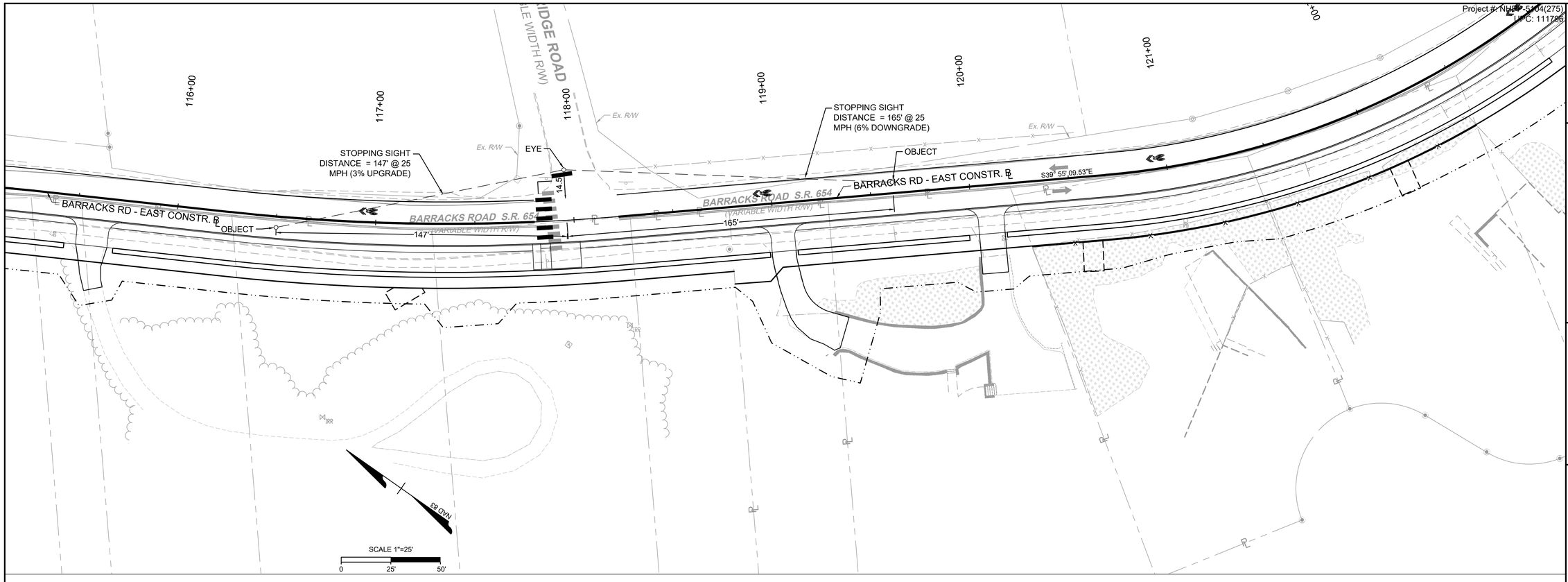
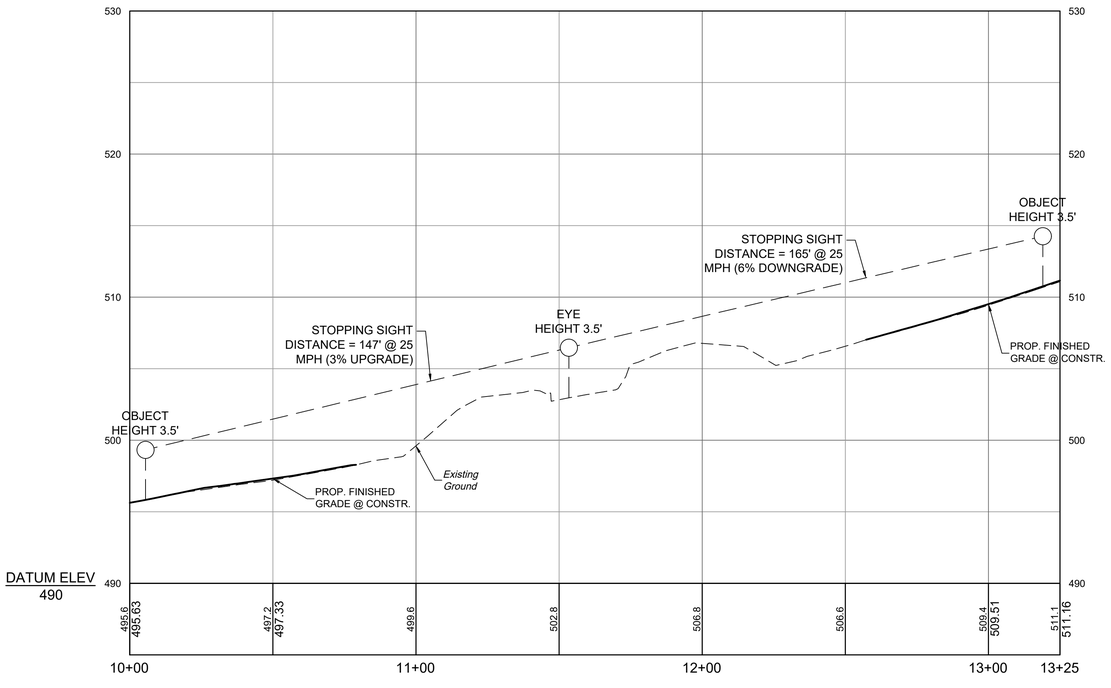
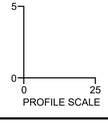


BLUE RIDGE ROAD STOPPING SIGHT DISTANCE





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DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE:

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
ENTRANCE STOPPING SIGHT DISTANCE PLAN & PROFILE

JOB NO. 43569
SHEET NO. 7(3)

Project #: NHPP-5104(275)
UPC: 111706

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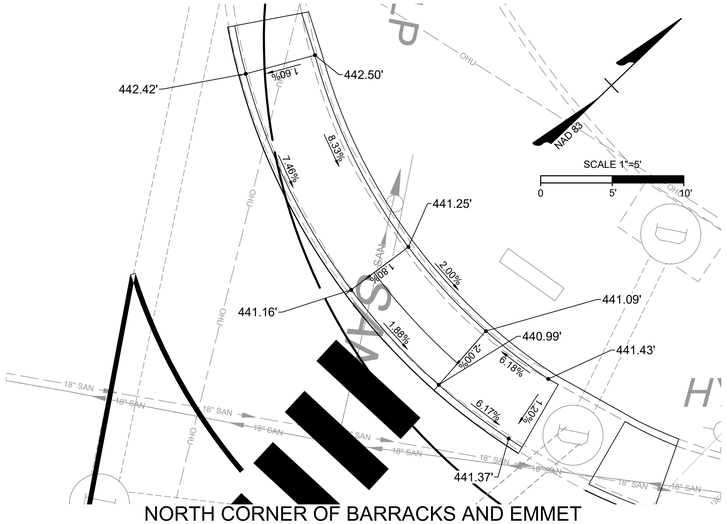
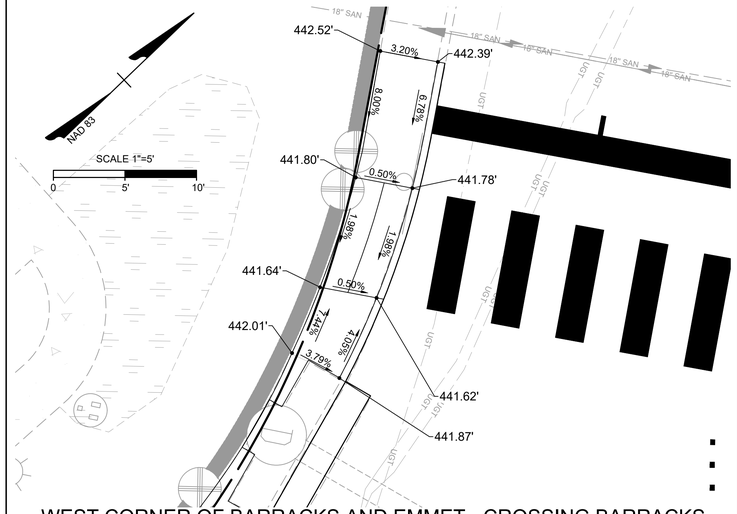


NORTH CORNER OF BARRACKS AND EMMET

EMMET STREET STA. 204+75



WEST CORNER OF BARRACKS AND EMMET - CROSSING BARRACKS

BARRACKS ROAD WEST STA. 103+30

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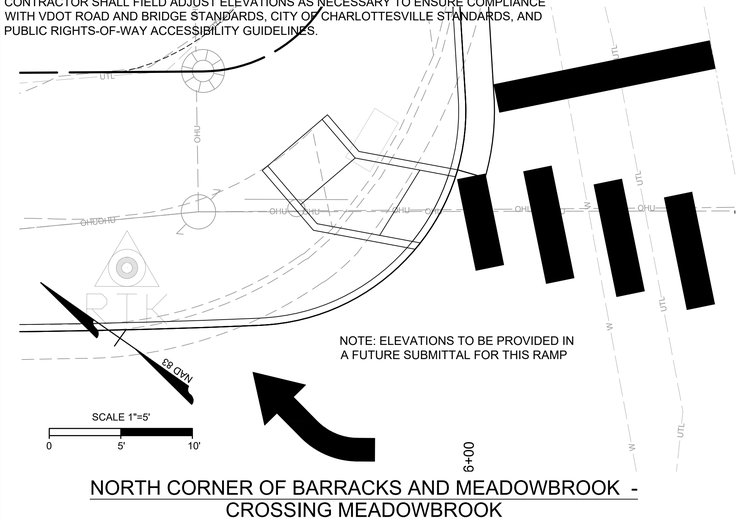
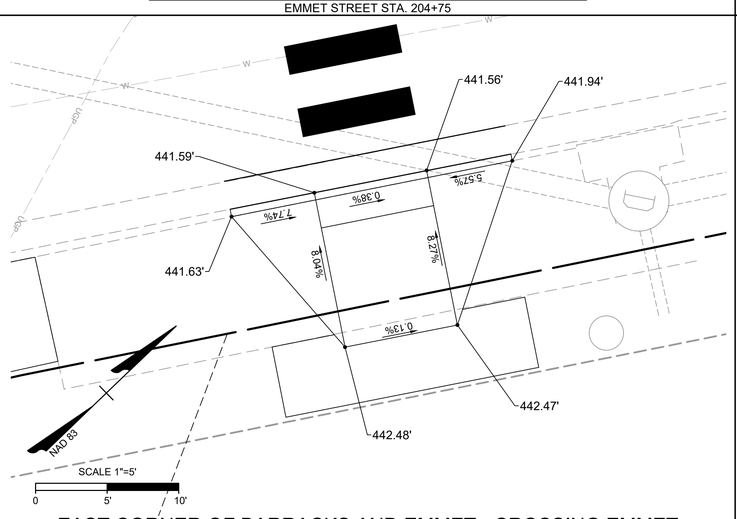


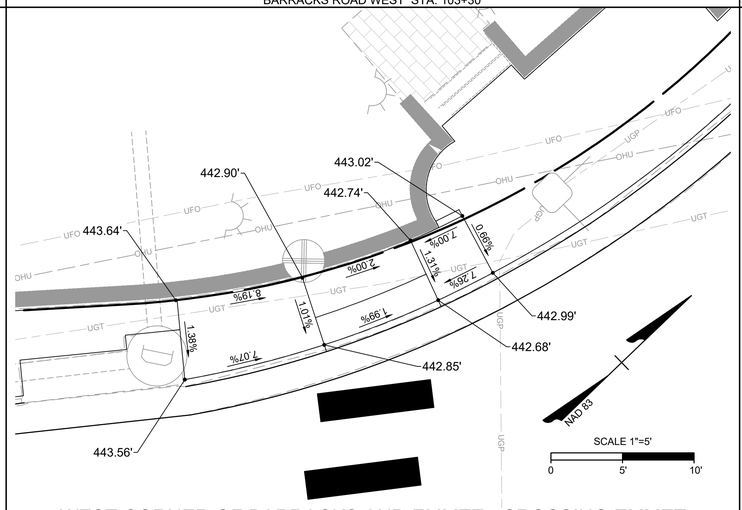
NORTH CORNER OF BARRACKS AND MEADOWBROOK - CROSSING MEADOWBROOK

BARRACKS ROAD EAST STA. 105+90



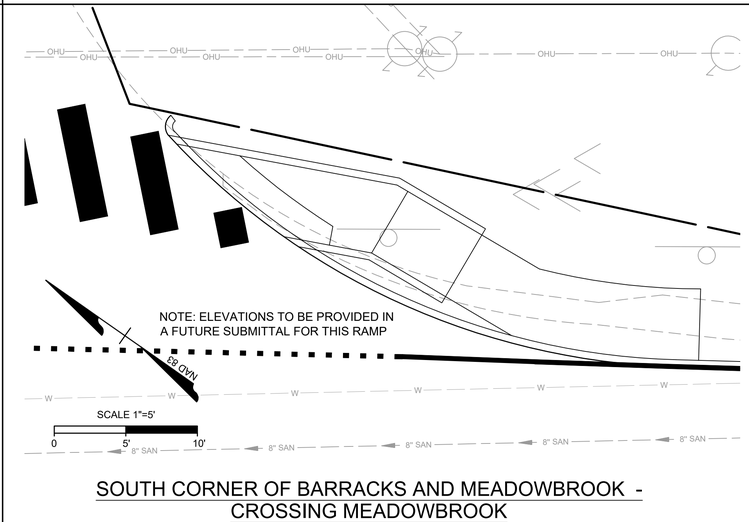
EAST CORNER OF BARRACKS AND EMMET - CROSSING EMMET

EMMET STREET STA. 204+60



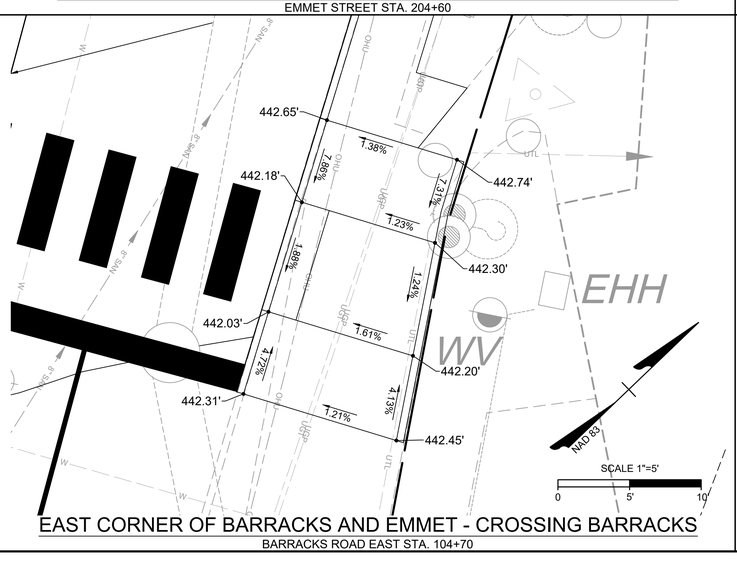
WEST CORNER OF BARRACKS AND EMMET - CROSSING EMMET

EMMET STREET STA. 203+25



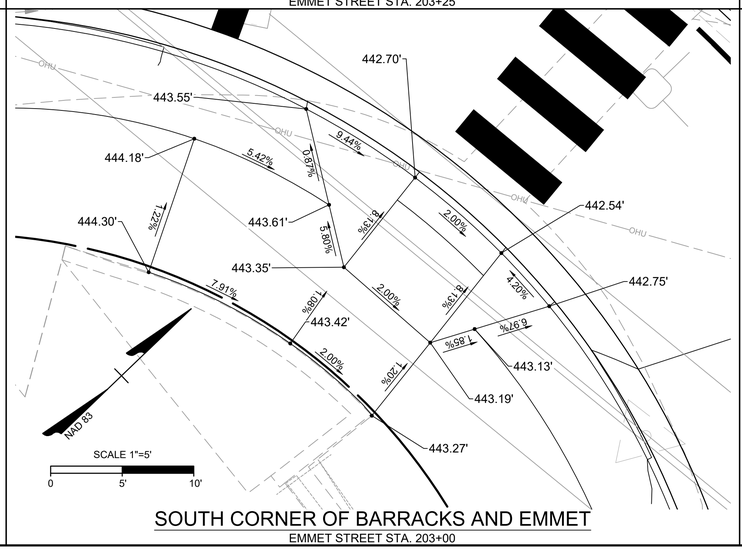
SOUTH CORNER OF BARRACKS AND MEADOWBROOK - CROSSING MEADOWBROOK

BARRACKS ROAD EAST STA. 106+60



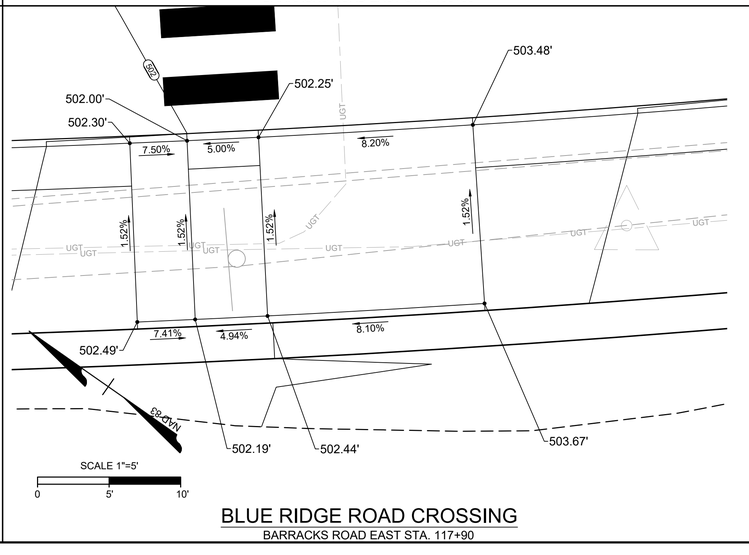
EAST CORNER OF BARRACKS AND EMMET - CROSSING BARRACKS

BARRACKS ROAD EAST STA. 104+70



SOUTH CORNER OF BARRACKS AND EMMET

EMMET STREET STA. 203+00



BLUE RIDGE ROAD CROSSING

BARRACKS ROAD EAST STA. 117+90

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DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=5'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

CURB RAMP ELEVATION PLAN

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SHEET NO. 8(1)

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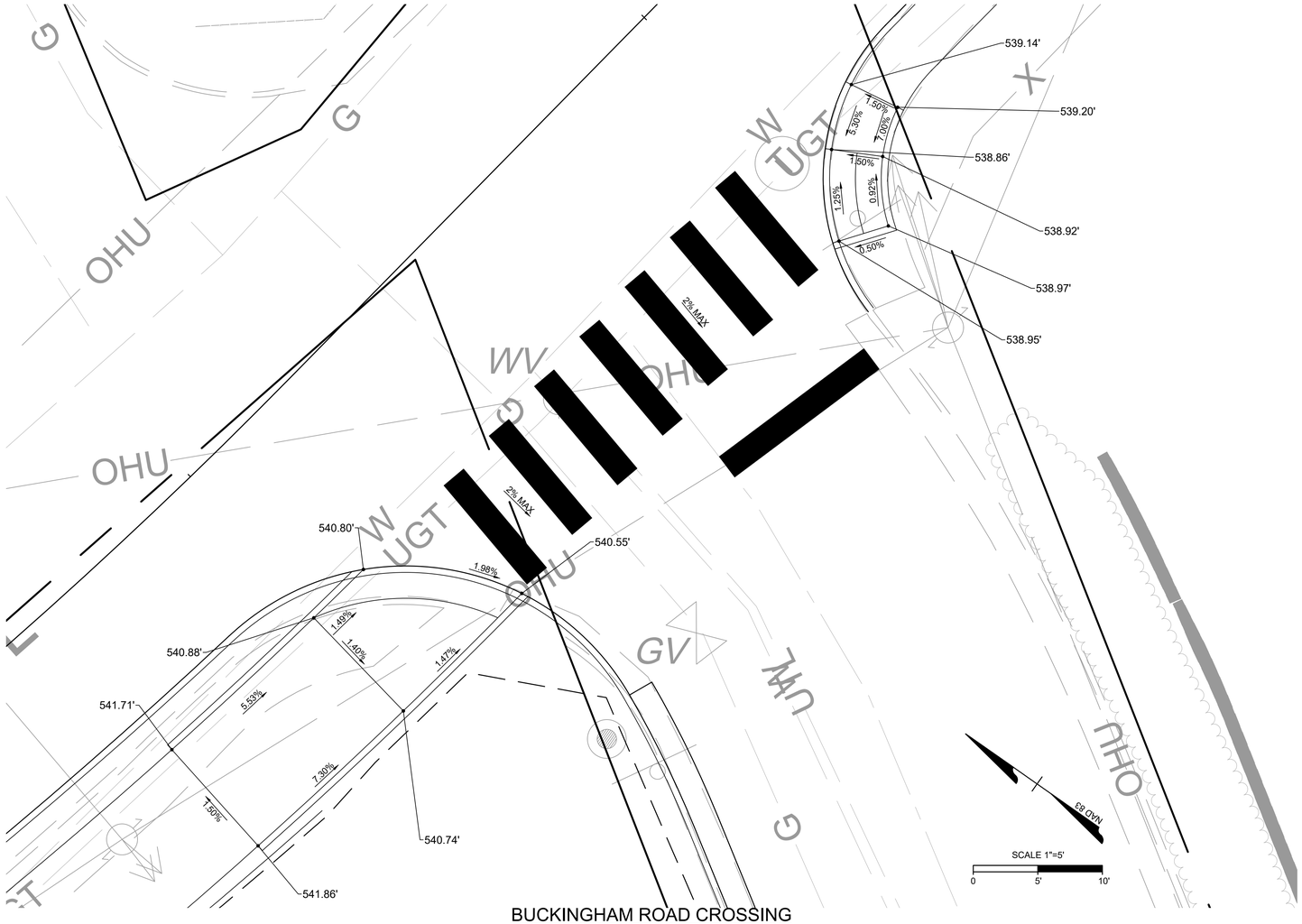
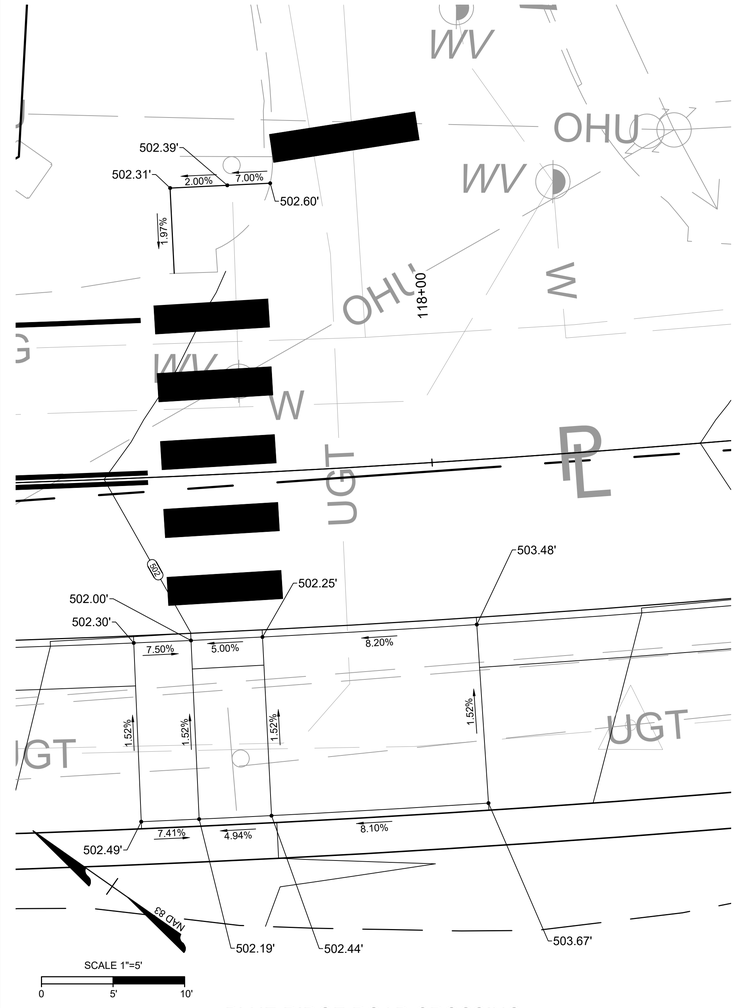


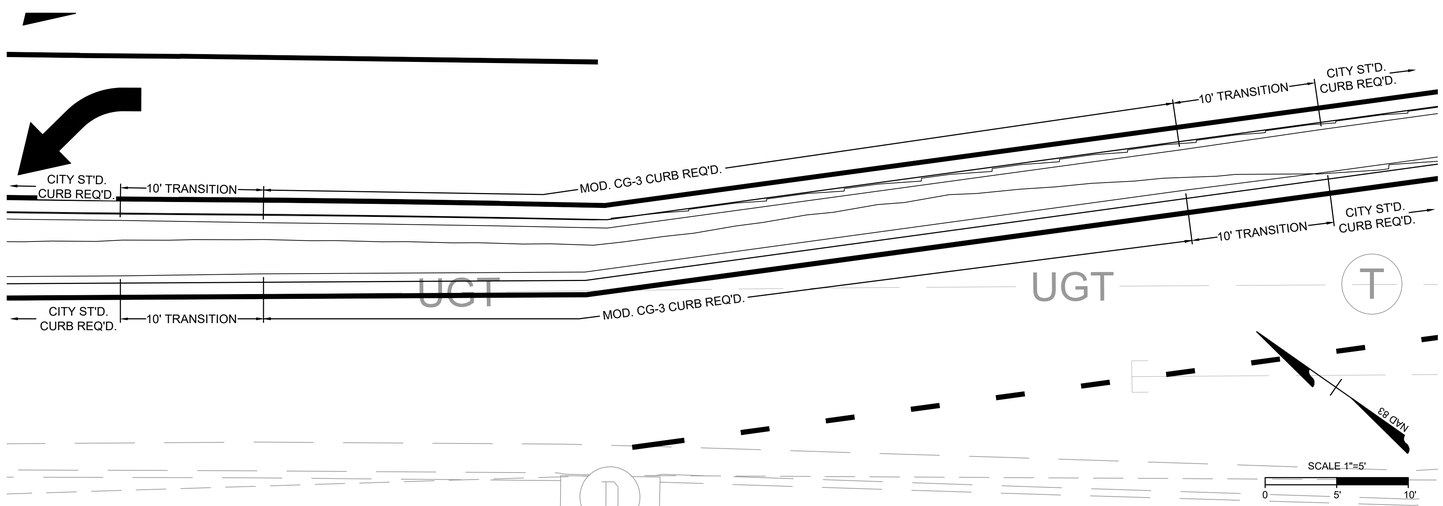
BUCKINGHAM ROAD CROSSING

BARRACKS ROAD EAST STA. 123+50



BLUE RIDGE ROAD CROSSING

BARRACKS ROAD EAST STA. 117+90



MEDIAN CURB TRANSITION DETAIL AT MEADOWVILLE ROAD

BARRACKS ROAD EAST STA. 106+00

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DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=5'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

CURB RAMP ELEVATION PLAN

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SHEET NO. 8(2)

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UPC: 111796

SIGN SCHEDULE

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS: MUTCD ST'D.	PANEL SIZE: W	PANEL SIZE: H	QTY.	SIGN PANEL AREA (s.f.): per ASSEMBLY	SIGN PANEL AREA (s.f.): ALL ASSEM-BLIES	PROP. SIGN STRUCTURE ST'D.	REMARKS
1	301		R6-1R	54"	18"	2	13.50	13.50	2" 14 GAUGE STP-1	TYPE A, D, OR F FOUNDATION REQ'D. MOUNTING HEIGHT = 7' CENTER SIGN POST IN MEDIAN. SIGNS SHALL BE MOUNTED ON OPPOSITE SIDES OF POST AS SHOWN ON PLANS.
2	302		R3-8M W11-3 W7-3aP	36" 36" 24"	36" 36" 18"	1 1 1	9.00 9.00 3.00	9.00 9.00 3.00	2 1/2" 12 GAUGE STP-1	TYPE A OR E FOUNDATION REQ'D. MOUNTING HEIGHT = 7' CENTER SIGN POST IN MEDIAN. SIGNS SHALL BE MOUNTED ON OPPOSITE SIDES OF POST AS SHOWN ON PLANS.
3	303		R4-7	24"	30"	1	5.00	5.00	2" 14 GAUGE STP-1	TYPE A, D, OR F FOUNDATION REQ'D. MOUNTING HEIGHT = 7' CENTER SIGN POST IN MEDIAN.
4	304		R4-7 R3-8M	24" 36"	30" 36"	1 1	5.00 9.00	5.00 9.00	2" 14 GAUGE STP-1	TYPE A, D, OR F FOUNDATION REQ'D. MOUNTING HEIGHT = 7' CENTER SIGN POST IN MEDIAN.
5	305		R4-7	36"	36"	1	3.90	3.90	2" 14 GAUGE STP-1	TYPE A, D, OR F FOUNDATION REQ'D. MOUNTING HEIGHT = 7' INSTALL BEHIND SIDEWALK.
6	306		R4-7 R3-4	24" 36"	30" 36"	1 1	5.00 9.00	5.00 9.00	2" 14 GAUGE STP-1	TYPE A, D, OR F FOUNDATION REQ'D. MOUNTING HEIGHT = 7' CENTER SIGN POST IN MEDIAN. SIGNS SHALL BE MOUNTED ON OPPOSITE SIDES OF POST AS SHOWN ON PLANS.

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS: MUTCD ST'D.	PANEL SIZE: W	PANEL SIZE: H	QTY.	SIGN PANEL AREA (s.f.): per ASSEMBLY	SIGN PANEL AREA (s.f.): ALL ASSEM-BLIES	PROP. SIGN STRUCTURE ST'D.	REMARKS
7	307, 308, 309		R6-1R	54"	18"	1	6.75	20.25	2" 14 GAUGE STP-1	TYPE A, D, OR F FOUNDATION REQ'D. MOUNTING HEIGHT = 7' CENTER SIGN POST IN MEDIAN.
8	310		R14-1 M3-6	24" 21"	18" 15"	1 1	3.00 2.19	3.00 2.19	2" 14 GAUGE STP-1	TYPE A OR E FOUNDATION REQ'D. MOUNTING HEIGHT = 7' SIGN SHALL BE PLACED AT LEAST 2' FROM FACE OF CURB.
9	311		R4-7 R3-8M R3-4	24" 36" 36"	30" 36" 36"	1 1 1	5.00 9.00 9.00	5.00 9.00 9.00	2 1/2" 10 GAUGE STP-1	TYPE B OR C FOUNDATION REQ'D. MOUNTING HEIGHT = 7' CENTER SIGN POST IN MEDIAN.
10	401		R3-8M R6-1R	36" 54"	36" 18"	1 1	9.00 6.75	9.00 6.75	2 1/2" 12 GAUGE STP-1	TYPE A OR E FOUNDATION REQ'D. MOUNTING HEIGHT = 7' CENTER SIGN POST IN MEDIAN. INSTALL R3-8M FACING WESTBOUND TRAFFIC. INSTALL R6-1R BELOW R3-8M FACING MEADOWBROOK ROAD.
11	402		R3-4 R4-7	24" 24"	24" 30"	1 1	4.00 5.00	4.00 5.00	2" 14 GAUGE STP-1	TYPE A, D, OR F FOUNDATION REQ'D. MOUNTING HEIGHT = 7' CENTER SIGN POST IN MEDIAN. SIGNS SHALL BE MOUNTED ON OPPOSITE SIDES OF POST AS SHOWN ON PLANS..
12	403		SPECIAL	12"	18"	1	1.50	1.50	2" 14 GAUGE STP-1	TYPE A, D, OR F FOUNDATION REQ'D. MOUNTING HEIGHT = 7' INSTALL BEHIND SIDEWALK. INSTALL 3" RETROREFLECTIVE MARKER PANELS ON BOTH SIDES OF SIGN POST, COLOR SHALL MATCH BACKGROUND COLOR OF SIGN
13	404		D3-1 D3-1 R1-1	42" 42" 30"	12" 12" 30"	2 2 1	7.00 7.00 6.25	7.00 7.00 6.25	2 1/2" 12 GAUGE STP-1	TYPE A OR E FOUNDATION REQ'D. MOUNTING HEIGHT = 7' MINIMUM OFFSET OF SIGN PANEL FROM FACE OF CURB = 2'

NOTES:
1) ALL SIGNS SHALL BE ORIENTATED AS SHOWN ON THE PLANS.
2) SIGN COLOR COMBINATIONS SHALL BE IN ACCORDANCE WITH THE FHWA SHS BOOK AND THE 2011 VIRGINIA SHS BOOK OR AS NOTED IN THE PLANS.
3) ALL POSITIVE CONTRAST GUIDE AND SPECIFIC SERVICE SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-3 OR L-4 UNLESS OTHERWISE NOTED IN THE REMARKS. ALL OTHER SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-1 OR L-2 UNLESS OTHERWISE NOTED IN THE REMARKS.
4) ALL BLACK SHEETING SHALL BE NON-REFLECTIVE.
5) SIGN STRUCTURES SHALL BE INSTALLED PER THE NOTED SIGN ST'D.
6) ALL ST'D. STOP-1 STRUCTURES TO BE SINGLE POST UNLESS OTHERWISE NOTED.
7) EXISTING SIGNS TO REMAIN IN PLACE UNLESS OTHERWISE NOTED ON PLANS.
8) NEW MATERIALS AND ITEMS REQUIRED TO COMPLETE THE REMOVAL OR MODIFICATION OF EXISTING ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL IN ACCORDANCE WITH SECTION 105 OF THE SPECIFICATIONS.

PROP. GROUND MOUNTED SIGN STRUCTURE

EX. GROUND MOUNTED SIGN STRUCTURE

100 / 1 — SIGN ASSEMBLY NO. / TEXT NO.

STP-1 / G — STRUCTURE TYPE / ACTION DESCRIPTION

SPEED LIMIT 45 — EX. SIGN PANEL

SPEED LIMIT 45 — PROP. SIGN PANEL

G = REMOVE AND DISPOSE OF SIGN STRUCTURE
Measured in units of each. Includes removal and disposal of sign panels, posts and foundations to at least two feet below existing ground line, backfilling and restoration (topsoiling and seeding), and for all materials, labor, tools, equipment, and incidentals necessary to complete the work.

S = REMOVE AND DISPOSE OF EXISTING SIGN PANEL
Measured in units of each. Includes removal and disposal of sign panels and for all materials, labor, tools, equipment, and incidental necessary to complete the work

PAVEMENT MARKING AND SIGNING NOTES

1. ALL SIGNING AND PAVEMENT MARKING WORK SHALL BE IN CONFORMANCE WITH THE FOLLOWING DOCUMENTS:
   - 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), REVISION 1 AND 2
   - 2011 VIRGINIA SUPPLEMENT TO THE 2009 MUTCD, REVISION 1
   - 2016 VDOT ROAD AND BRIDGE STANDARDS
   - 2020 VDOT ROAD AND BRIDGE SPECIFICATIONS

   AND ALL PROVISIONS IN EFFECT AT THE TIME THE PLANS ARE APPROVED.
2. UNLESS OTHERWISE APPROVED BY THE ENGINEER OR INDICATED IN THE MAINTENANCE OF TRAFFIC AND SEQUENCE OF CONSTRUCTION PLANS. EXISTING TRAFFIC SIGNS WHICH ARE TO BE REMOVED/RELOCATED SHALL REMAIN IN PLACE UNTIL THE NEW SIGN STRUCTURE IS IN PLACE.
3. THE REMOVAL, RELOCATION, OR MODIFICATION OF EXISTING SIGN PANELS, STRUCTURES, OR FOUNDATIONS SHALL CONFORM TO SECTION 510 OF THE SPECIFICATIONS.
4. ALL EXISTING AND PROPOSED SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ALL PROPOSED SIGN LOCATIONS SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
5. ALL STOP LINES AND CROSSWALK MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH VDOT R&B STANDARD PM-3.
6. PAVEMENT MARKINGS SHALL BE SPOTTED (USING CHALK OR APPROVED EQUAL) AND FIELD VERIFIED BY THE CITY OR THE ENGINEER PRIOR TO APPLYING THE THERMOPLASTIC MARKINGS.
7. ALL PERMANENT MARKINGS SHALL BE TYPE B, CLASS I UNLESS OTHERWISE DIRECTED BY THE CITY.
8. ALL PAVEMENT MARKINGS MUST HAVE A PERSON WITH A PAVEMENT MARKING CERTIFICATION ISSUED BY THE VDOT MATERIALS DIVISION ON SITE DURING PAVEMENT MARKING OPERATIONS.
9. FOR ALL PROPOSED AND RELOCATED SIGNS, THE BOTTOM OF SIGN HEIGHT MUST BE AT LEAST 7' ABOVE GROUND (EXCEPT OM-3 SIGNS).
10. ALL REPLACED OR RELOCATED SIGNS SHALL BE INSTALLED AS NEW SIGNS. EXISTING SIGNS SHALL NOT BE RE-USED.
11. CONTRACTOR SHALL TIE ALL PROPOSED PAVEMENT MARKINGS TO EXISTING MARKINGS AT THE PROJECT LIMITS
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ERADICATION OF ALL EXISTING PAVEMENT MARKINGS WHICH ARE IN CONFLICT WITH PROPOSED STRIPING PLAN.

60% PLANS

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DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/11/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: ----

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
SIGN SCHEDULE & PAVEMENT MARKING NOTES

JOB NO. 43569
SHEET NO. 9(1)

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Project #: NHPP-5104(275)
UPC: 111796

SIGN SCHEDULE (CONT.)

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS: MUTCD ST'D.	PANEL SIZE: W	PANEL SIZE: H	QTY.	SIGN PANEL AREA (s.f.): per ASSEMBLY	SIGN PANEL AREA (s.f.): ALL ASSEM-BLIES	PROP. SIGN STRUCTURE ST'D.	REMARKS
14	405		W11-2 R2-1	24" 30"	24" 24"	1 1	4.00 5.00	4.00 5.00	2 1/2" 12 GAUGE STP-1	W11-2 SHALL BE FLUORESCENT YELLOW-GREEN. TYPE A OR E FOUNDATION REQ'D. MOUNTING HEIGHT = 4' INSTALL 3" RETROREFLECTIVE STRIP ON BOTH SIDES OF SIGN POST, COLOR SHALL MATCH BACKGROUND COLOR OF SIGN
15	406		OM3-R	12"	36"	1	3.00	3.00	N/A	MOUNTING HEIGHT = 4' INSTALL SIGN PANEL ON BUS SHELTER POST FACING TRAFFIC.
16	407		OM3-L	12"	36"	1	3.00	3.00	N/A	MOUNTING HEIGHT = 4' INSTALL SIGN PANEL ON BUS SHELTER POST FACING TRAFFIC.
17	408		SPECIAL	12"	18"	1	1.50	1.50	2" 14 GAUGE STP-1	TYPE A, D, OR F FOUNDATION REQ'D. MOUNTING HEIGHT = 4' INSTALL 3" RETROREFLECTIVE MARKER PANELS ON BOTH SIDES OF SIGN POST, COLOR SHALL MATCH BACKGROUND COLOR OF SIGN
18	501		W11-2 R10-7	24" 30"	24" 24"	1 1	4.00 5.00	4.00 5.00	2 1/2" 12 GAUGE STP-1	W11-2 SHALL BE FLUORESCENT YELLOW-GREEN. TYPE A OR E FOUNDATION REQ'D. MOUNTING HEIGHT = 4' INSTALL 3" RETROREFLECTIVE MARKER PANELS ON BOTH SIDES OF SIGN POST, COLOR SHALL MATCH BACKGROUND COLOR OF SIGN
19	601		R2-1	30"	24"	1	5.00	5.00	2" 14 GAUGE STP-1	TYPE A, D, OR F FOUNDATION REQ'D. MOUNTING HEIGHT = 4' INSTALL 3" RETROREFLECTIVE MARKER PANELS ON BOTH SIDES OF SIGN POST, COLOR SHALL MATCH BACKGROUND COLOR OF SIGN
20	602, 603		W1-8L	18"	24"	1	3.00	6.00	2" 14 GAUGE STP-1	TYPE A, D, OR F FOUNDATION REQ'D. MOUNTING HEIGHT = 4' INSTALL 3" RETROREFLECTIVE MARKER PANELS ON BOTH SIDES OF SIGN POST, COLOR SHALL MATCH BACKGROUND COLOR OF SIGN
21	604		R10-7	30"	24"	1	5.00	5.00	2" 14 GAUGE STP-1	TYPE A, D, OR F FOUNDATION REQ'D. MOUNTING HEIGHT = 4' INSTALL 3" RETROREFLECTIVE MARKER PANELS ON BOTH SIDES OF SIGN POST, COLOR SHALL MATCH BACKGROUND COLOR OF SIGN
22	605		D3-1 D3-1 R1-1	42" 60" 30"	12" 12" 30"	2 2 1	7.00 10.00 6.25	7.00 10.00 6.25	2 1/2" 12 GAUGE STP-1	TYPE A OR E FOUNDATION REQ'D. MOUNTING HEIGHT = 7' MINIMUM OFFSET OF SIGN PANEL FROM FACE OF CURB = 2'
23	606		R4-11	30"	30"	1	6.25	6.25	2" 14 GAUGE STP-1	TYPE A, D, OR F FOUNDATION REQ'D. MOUNTING HEIGHT = 7'
24	607		W14-1	24"	24"	1	4.00	4.00	2" 14 GAUGE STP-1	TYPE A, D, OR F FOUNDATION REQ'D. MOUNTING HEIGHT = 7'

NOTES:
1) ALL SIGNS SHALL BE ORIENTATED AS SHOWN ON THE PLANS.
2) SIGN COLOR COMBINATIONS SHALL BE IN ACCORDANCE WITH THE FHWA SHS BOOK AND THE 2011 VIRGINIA SHS BOOK OR AS NOTED IN THE PLANS.
3) ALL POSITIVE CONTRAST GUIDE AND SPECIFIC SERVICE SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-3 OR L-4 UNLESS OTHERWISE NOTED IN THE REMARKS. ALL OTHER SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-1 OR L-2 UNLESS OTHERWISE NOTED IN THE REMARKS.
4) ALL BLACK SHEETING SHALL BE NON-REFLECTIVE.
5) SIGN STRUCTURES SHALL BE INSTALLED PER THE NOTED SIGN ST'D.
6) ALL ST'D. STOP-1 STRUCTURES TO BE SINGLE POST UNLESS OTHERWISE NOTED.
7) EXISTING SIGNS TO REMAIN IN PLACE UNLESS OTHERWISE NOTED ON PLANS.
8) NEW MATERIALS AND ITEMS REQUIRED TO COMPLETE THE REMOVAL OR MODIFICATION OF EXISTING ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL IN ACCORDANCE WITH SECTION 105 OF THE SPECIFICATIONS.

60% PLANS

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DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: N/A

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
SIGN SCHEDULE & PAVEMENT MARKING NOTES

JOB NO. 43569
SHEET NO. 9(2)

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Project #: NHPP-5104(275)
UPC: 111796

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2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=25'

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

PAVEMENT MARKING & SIGNING PLANS

JOB NO. 43569
SHEET NO. 9(3)

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TIE TO EXISTING

INSTALL 2x R6-1R (ONE WAY)

REMOVE R3-8M (DOUBLE LEFT TURN ONLY), W11-3 (DEER CROSSING), AND W7-3aP (NEXT 0.5 MILE)

INSTALL R3-8M (DOUBLE LEFT TURN ONLY), W11-3 (DEER CROSSING), AND W7-3aP (NEXT 0.5 MILE)

REMOVE R6-2R (ONE WAY)

REMOVE R4-7 (KEEP RIGHT) AND R3-8R (DOUBLE LEFT TURN ONLY)

INSTALL R4-7 (KEEP RIGHT) AND R3-8M (DOUBLE LEFT TURN ONLY)

REMOVE R3-6R (THRU-RIGHT)

REMOVE R1-2 (YIELD)

INSTALL R1-2 (YIELD)

REMOVE EX. R3-4 (NO U-TURN)

INSTALL R4-7 (KEEP RIGHT)

RELOCATE DECORATIVE GUIDE SIGN

REMOVE "DOWNTOWN TRUCK ROUTE" SIGN

INSTALL R14-1 (TRUCK ROUTE) AND M6-3 (DIRECTIONAL ARROW)

REMOVE R4-7 (KEEP RIGHT)

INSTALL R4-7 (KEEP RIGHT) AND R3-4 (NO U-TURN)

INSTALL R4-7 (KEEP RIGHT), R3-8M (DOUBLE LEFT TURN ONLY) AND R3-4 (NO U-TURN)

INSTALL R6-1R (ONE WAY)

REMOVE R6-1R (ONE WAY)

INSTALL R6-1R (ONE WAY)

INSTALL R6-1R (ONE WAY)

BARRACKS ROAD S.R. 654 (VARIABLE WIDTH R/W)

NORTH EMMET ST. U.S. ROUTE 29 (VARIABLE WIDTH R/W)

SEE MATCHLINE BELOW - STA. 207+00

SEE MATCHLINE ABOVE - STA. 207+00

SEE MATCHLINE SHEET 9(4) - STA. 105+50

UNITED STATES OF AMERICA
D.B. 431, PG. 735
TAX PARCEL: 040001100
1202 N. EMMET ST

FEDERAL REALTY INVESTMENT TRUST
D.B. 793, PG. 231
(PARCEL ONE-SECOND)
TAX PARCEL: 010001000
1117 N. EMMET ST
39.830 AC.

FEDERAL REALTY INVESTMENT TRUST
D.B. 793, PG. 231
(PARCEL ONE-FIRST)
TAX PARCEL: 010001000
1117 N. EMMET ST
39.830 AC.

ADONAI DEGEL PROPERTIES, LLC
D.B. 1169, PG.170
TAX PARCEL: 400002400
1232 N. EMMET ST
0.309 AC.

GAD, L.L.C.
D.B. 853, PG. 22
PLAT: D.B. 364, PG. 190 (LOT 3A)
TAX PARCEL: 400002300
0 N. EMMET ST
0.292 AC.

GAD, L.L.C.
D.B. 853, PG. 22
PLAT: D.B. 248, PG. 551 (LOT 2)
TAX PARCEL: 400002200
1230 N. EMMET ST
0.382 AC.

BARRACKS ROW, L.L.C.
INSTR. #: 2017-00001425
PLAT: D.B. 248, PG. 551 (LOT 1)
TAX PARCEL: 400002100
1200 N. EMMET ST
0.840 AC.

MEADOWBROOK SHOPPING CENTER LLC
D.B. 685, PG. 683
BLA INSTR. #: 2018-00000073 (TMP 1-4)
TAX PARCEL: 010004000
1138 N. EMMET ST
2.505 AC.

VARIABLE WIDTH R/W DEDICATION PER INSTR. #: 2018-00001797

R/W DEDICATION INSTR. #: 2017-00001426

SCALE 1"=25'
0 25' 50'

PAVEMENT MARKING LEGEND

- A: TYPE B, CLASS I WHITE PAVEMENT LINE MARKING, 4" WIDE
- B: TYPE B, CLASS I WHITE PAVEMENT LINE MARKING, 4" WIDE (10' DASHED, 30' SPACING)
- C: TYPE B, CLASS I YELLOW PAVEMENT LINE MARKING, 4" WIDE
- D: TYPE B, CLASS I WHITE PAVEMENT LINE MARKING, 4" WIDE (2' DASHED, 6' SPACING)
- E: TYPE B, CLASS I WHITE PAVEMENT LINE MARKING, 24" WIDTH
- F: TYPE B, CLASS I DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- G: TYPE B, CLASS I YELLOW GORE MARKING, 24" WIDTH
- H: SHARROW PAVEMENT MARKING
- I: TYPE B, CLASS I WHITE PAVEMENT LINE MARKING, 24" WIDTH (8' CROSSWALK) (INSTALL IN ACCORDANCE WITH ST'D. PM-3)

NOTE: DIRECTIONAL ARROWS MARKINGS (STRIPE ONLY AS SHOWN ON THIS PLAN). ALL THRU ARROWS SHOWN ARE FOR INFORMATIONAL PURPOSES AND SHALL NOT BE STRIPED.

SHEET REFERENCES

ALIGNMENT DATA SHEET	1B
EXIST. CONDITIONS & DEMOLITION PLAN	1C(3)
MAINTENANCE OF TRAFFIC PLANS	1E SERIES
TYPICAL SECTIONS	2A(1) - 2A(2)
EROSION & SEDIMENT CONTROL PLAN	2B(3)
DRAINAGE AREA MAPS	2C(1) - 2C(6)
PLAN SHEET	3
BARRACKS ROAD PROFILE SHEET	3A
EMMET STREET PROFILE	3B
UTILITY PLAN SHEET	3C
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
SIGN SCHEDULE & PAVEMENT MARKING NOTES	9(1) - 9(2)
TRAFFIC SIGNAL PLAN	10(3)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS01 - XS13

Project #: NHPP-5104(275)
UPC: 111796

60% PLANS

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REVISION DESCRIPTION	DATE
30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS	3/20/2020
60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	7/31/2020
60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	2/12/2021

DATE 06/18/2021
DRAWN BY KJH
DESIGNED BY KJH
CHECKED BY BTC
SCALE 1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

PAVEMENT MARKING & SIGNING PLANS

JOB NO. 43569
SHEET NO. 9(4)

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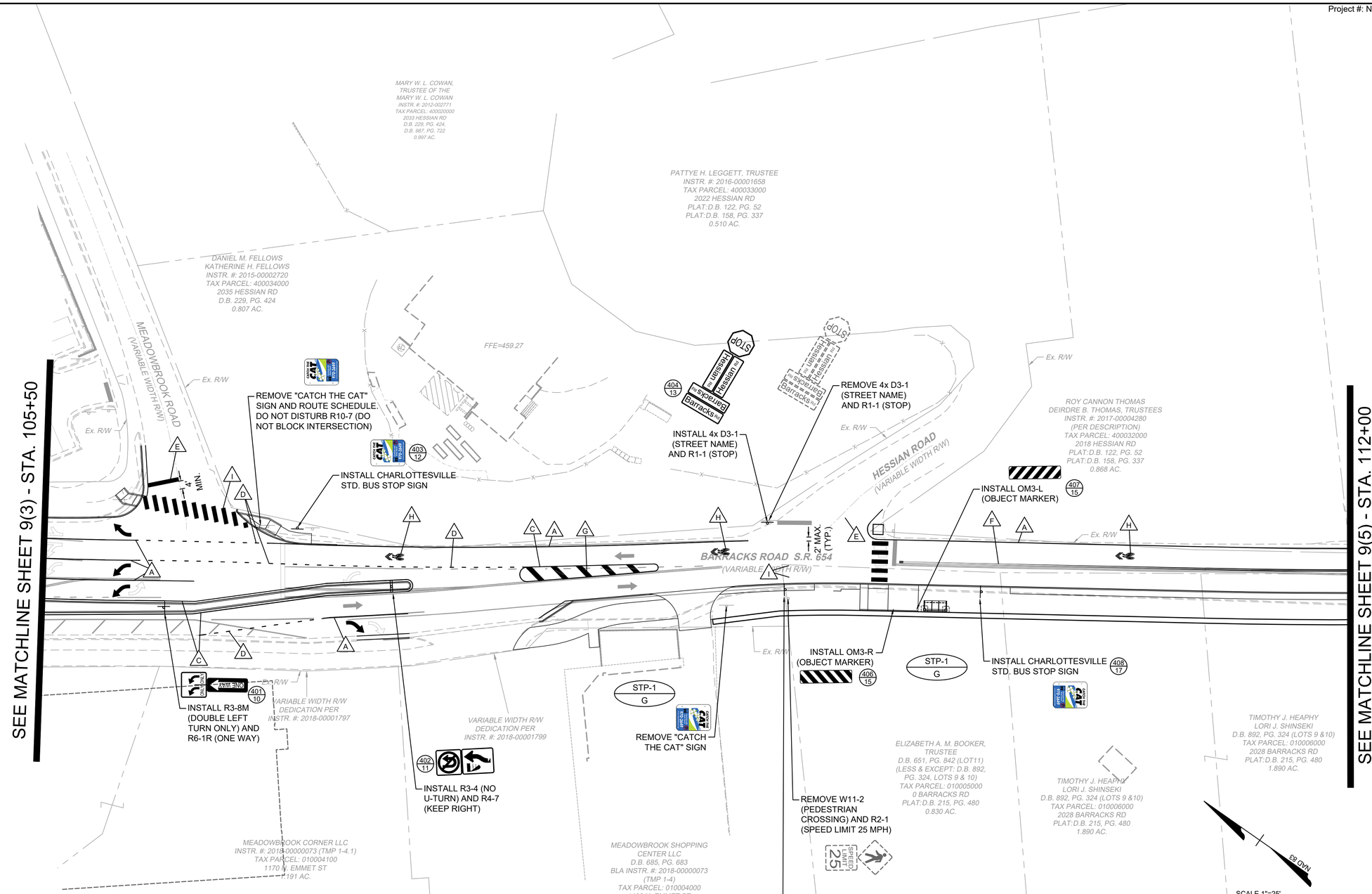

PAVEMENT MARKING LEGEND

- A: TYPE B, CLASS I WHITE PAVEMENT LINE MARKING, 4" WIDE
- B: TYPE B, CLASS I WHITE PAVEMENT LINE MARKING, 4" WIDE (10' DASHED, 30' SPACING)
- C: TYPE B, CLASS I YELLOW PAVEMENT LINE MARKING, 4" WIDE
- D: TYPE B, CLASS I WHITE PAVEMENT LINE MARKING, 4" WIDE (2' DASHED, 6' SPACING)
- E: TYPE B, CLASS I WHITE PAVEMENT LINE MARKING, 24" WIDTH
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- G: TYPE B, CLASS I YELLOW GORE MARKING, 24" WIDTH
- H: SHARROW PAVEMENT MARKING
- I: TYPE B, CLASS I WHITE PAVEMENT LINE MARKING, 24" WIDTH (8' CROSSWALK) (INSTALL IN ACCORDANCE WITH ST'D. PM-3)

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ALIGNMENT DATA SHEET	1B
EXIST. CONDITIONS & DEMOLITION PLAN	1C(4)
MAINTENANCE OF TRAFFIC PLANS	1E SERIES
TYPICAL SECTIONS	2A(1) - 2A(2)
EROSION & SEDIMENT CONTROL PLAN	2B(4)
DRAINAGE AREA MAPS	2C(1) - 2C(6)
PLAN SHEET	4
BARRACKS ROAD PROFILE SHEET	4A
UTILITY PLAN SHEET	4B
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
SIGN SCHEDULE & PAVEMENT MARKING NOTES	9(1) - 9(2)
STORM SEWER PROFILES	11
CROSS SECTIONS	XS01 - XS13

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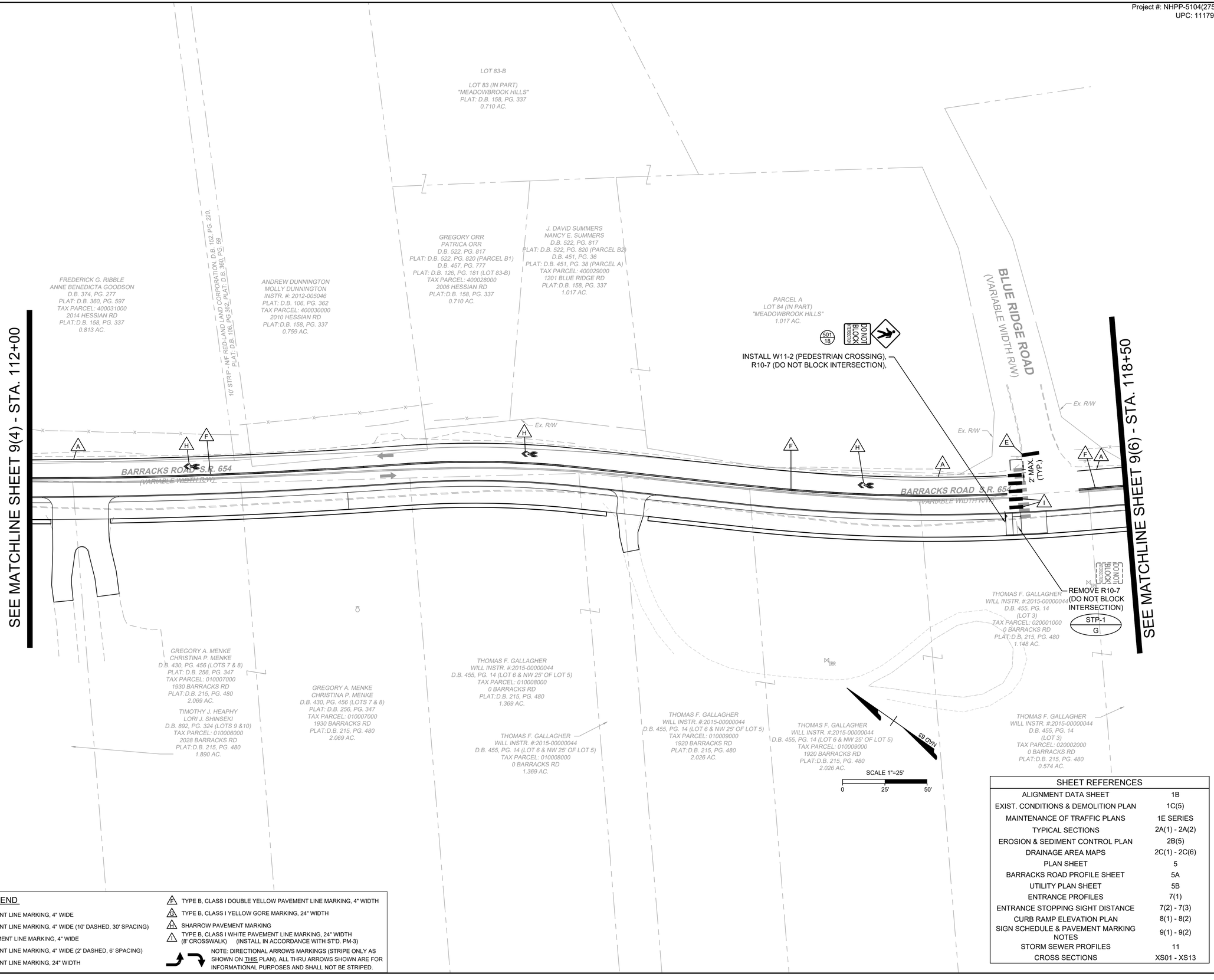
Project #: NHPP-5104(275)
UPC: 111796



PAVEMENT MARKING LEGEND

- A: TYPE B, CLASS I WHITE PAVEMENT LINE MARKING, 4" WIDE
- B: TYPE B, CLASS I WHITE PAVEMENT LINE MARKING, 4" WIDE (10' DASHED, 30' SPACING)
- C: TYPE B, CLASS I YELLOW PAVEMENT LINE MARKING, 4" WIDE
- D: TYPE B, CLASS I WHITE PAVEMENT LINE MARKING, 4" WIDE (2' DASHED, 6' SPACING)
- E: TYPE B, CLASS I WHITE PAVEMENT LINE MARKING, 24" WIDTH
- E: TYPE B, CLASS I DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- G: TYPE B, CLASS I YELLOW GORE MARKING, 24" WIDTH
- H: SHARROW PAVEMENT MARKING
- I: TYPE B, CLASS I WHITE PAVEMENT LINE MARKING, 24" WIDTH (8' CROSSWALK) (INSTALL IN ACCORDANCE WITH ST'D. PM-3)

NOTE: DIRECTIONAL ARROWS MARKINGS (STRIPE ONLY AS SHOWN ON THIS PLAN). ALL THRU ARROWS SHOWN ARE FOR INFORMATIONAL PURPOSES AND SHALL NOT BE STRIPED.

SHEET REFERENCES

ALIGNMENT DATA SHEET	1B
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PLAN SHEET	5
BARRACKS ROAD PROFILE SHEET	5A
UTILITY PLAN SHEET	5B
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
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60% PLANS

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DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

PAVEMENT MARKING & SIGNING PLANS

JOB NO. 43569
SHEET NO. 9(5)

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SEE MATCHLINE SHEET 9(5) - STA. 118+50

BARRACKS ROAD S.R. 654 (VARIABLE WIDTH R/W)

HILLTOP ROAD (VARIABLE WIDTH R/W)

BUCKINGHAM ROAD (VARIABLE WIDTH R/W)

INSTALL R2-1 (SPEED LIMIT 25 MPH)

REMOVE R2-1 (SPEED LIMIT 25 MPH)

INSTALL W1-8L (CHEVRON)

INSTALL W1-8L (CHEVRON)

INSTALL W1-8L (CHEVRON)

REMOVE W1-8L (CHEVRON)

REMOVE W1-8L (CHEVRON)

INSTALL W1-8L (CHEVRON)

REMOVE 4x D3-1 (STREET NAME) AND R1-1 (STOP)

INSTALL R4-11 (BICYCLES MAY USE FULL LANE)

REMOVE W14-1 (DEAD END)

INSTALL W14-1 (DEAD END)

REMOVE R10-7 (DO NOT BLOCK INTERSECTION)

INSTALL 4x D3-1 (STREET NAME) AND R1-1 (STOP)

2' MAX (TYP.)

Ex. R/W

STP-1 G

JOE H. MILLER, IV
JENNIFER A MILLER
INSTR. #: 2016-00003676
TAX PARCEL: 390038000
1204 BLUE RIDGE RD
1.360 AC.

LOT 62
"MEADOWBROOK HILLS"
PLAT: D.B. 158, PG. 339

MARTHA STAHR CARPENTER
ALICE CARPENTER MOAT, TRUSTEES
D.B. 1148, PG. 486
PLAT: D.B. 250, PG. 489 (LOT 61 B)
TAX PARCEL: 390038100
1101 HILLTOP RD
PLAT:D.B. 158, PG. 337
0.862 AC.

CORNELIA D. JOHNSON
JAMES P. ROBINSON
D.B. 733, PG. 187
PLAT: D.B. 148, PG. 425 (LOT A-1)
TAX PARCEL: 390037000
1100 HILLTOP RD
PLAT:D.B. 158, PG. 339
0.530 AC.

MATTHEW J. GERBER
INSTR. #: 2013-000395
TAX PARCEL: 020007000
104 BUCKINGHAM RD
PLAT:D.B. 109, PG. 306
0.509 AC.

JOHN CURRIE MASON
JANE HOLLAND McBRYDE MASON
D.B. 1255, PG. 84
(LOT 1 & SE HALF OF LOT 2)
TAX PARCEL: 020003000
1910 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.372 AC.

JOHN CURRIE MASON
JANE HOLLAND McBRYDE MASON
D.B. 1255, PG. 84
(LOT 1 & SE HALF OF LOT 2)
TAX PARCEL: 020003000
1910 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.372 AC.

MIRKO VENTURES, LLC
D.B. 2019, PG. 3600
PLAT: D.B. 288, PG. 493
(LOT 1)
TAX PARCEL: 020004000
120 BUCKINGHAM RD
0.555 AC.

LOT 1
"RUGBY SIDE"
PLAT: D.B. 109, PG. 306

ELEANOR H. KETT
D.B. 617, PG. 172
PLAT: D.B. 473, PG. 710 (LOTS 2 & 3)
TAX PARCEL: 020005000
128 BUCKINGHAM RD
0.908 AC.

LOT 2
"RUGBY SIDE"
PLAT: D.B. 109, PG. 306

ELEANOR H. KETT
D.B. 617, PG. 172
PLAT: D.B. 473, PG. 710 (LOTS 2 & 3)
TAX PARCEL: 020005000
128 BUCKINGHAM RD
0.908 AC.
LOT 3
"RUGBY SIDE"
PLAT: D.B. 109, PG. 306

NAD 83

SCALE 1"=25'
0 25' 50'

PAVEMENT MARKING LEGEND

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PLAN SHEET	6
BARRACKS ROAD PROFILE SHEET	6A
UTILITY PLAN SHEET	6B
ENTRANCE PROFILES	7(1)
ENTRANCE STOPPING SIGHT DISTANCE	7(2) - 7(3)
CURB RAMP ELEVATION PLAN	8(1) - 8(2)
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TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
PAVEMENT MARKING & SIGNING PLANS

JOB NO. 43569
SHEET NO. 9(6)

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Project #: NHPP-5104(275)
UPC: 111796

TRAFFIC SIGNAL GENERAL NOTES

PLAN NOTES

1. MAST ARM SIGNAL HEAD MOUNTING SHALL BE IN ACCORDANCE WITH CHARLOTTESVILLE RIGID MOUNTING.
2. MAST ARM POLE SHALL BE IN ACCORDANCE WITH V.D.O.T. ST'D. MP-3. AND CHARLOTTESVILLE MAST ARM POLE SPECIFICATIONS.
3. LOCATION OF JUNCTION BOXES ARE APPROXIMATE AND TO BE FIELD REVIEWED BY THE CITY ENGINEER FOR FINAL PLACEMENT.
4. CONTRACTOR SHALL REFER TO 2016 ROAD AND BRIDGE SPECIFICATIONS SEC. 700.04 (E) FOR PLACEMENT OF SIGNAL POLE FOUNDATIONS (ENGINEER REFERRED TO SHALL BE THE CITY ENGINEER).
5. SIGNAL POLES HEIGHT NOT TO EXCEED 21'.
6. ALL JUNCTION BOXES ARE TO BE JB-S2 UNLESS OTHERWISE NOTED. ALL SPLICES IN ALL JUNCTION BOXES SHALL BE PLACED ON THE J-HOOKS.
7. CONTRACTOR SHALL CONTACT LONNIE RANDALL (434) 970-3363 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
8. DEVELOPER/PRIME CONTRACTOR SHALL PROVIDE LIST OF REGULAR AND AFTER HOURS PERSONNEL AND THEIR PHONE NUMBERS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
9. CONDUIT LOCATIONS SHALL BE MARKED ON ALL FOUNDATIONS AND JUNCTION BOX COLLARS PER THE SPECIFICATIONS FOR EACH CONDUIT INSTALLED.
10. FINAL INSPECTION BY THE CITY OF CHARLOTTESVILLE PERSONNEL OF THE TRAFFIC SIGNALS WILL NOT BE CONDUCTED UNTIL ALL TRAFFIC SIGNAL WORK IS COMPLETED. THE CITY OF CHARLOTTESVILLE TRAFFIC ENGINEERING OFFICE SHALL BE NOTIFIED DIRECTLY WHEN THE CONTRACTOR IS READY FOR THE TRAFFIC SIGNAL INSPECTION.
11. NO WORK SHALL COMMENCE WITH THE EXCEPTION OF SOIL SURVEY/ FOUNDATIONS UNTIL ALL SUBMITTALS REQUIRED ARE RECEIVED, REVIEWED AND ACCEPTED BY THE CITY TRAFFIC ENGINEERING SECTION.
12. SIGNAL POLE GROUND RODS SHALL BE INSTALLED IN THE JB-S2 ADJACENT TO THE SIGNAL POLES. 8/1C BOND WIRE SHALL BE USED TO CONNECT THE GROUND RODS TO THE SIGNAL POLES.
13. MAST ARM SIGN MOUNTING SHALL BE IN ACCORDANCE WITH CHARLOTTESVILLE. ST'D. SMD-2.
14. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE 2007 V.D.O.T. ROAD AND BRIDGE SPECIFICATIONS, 2008 ROAD AND BRIDGE STANDARDS AND WORK AREA PROTECTION MANUAL DATED MAY 2005 AND AS AMENDED BY PROVISIONS AND THE COMPLETE PAPER COPY OF THE PLAN ASSEMBLY.
15. CONTRACTOR SHALL CONTACT "MISS UTILITY" (1-800-552-7001) AT LEAST 48 HOURS BEFORE CONSTRUCTION AND RECEIVE CLEARANCE PRIOR TO BEGINNING ANY CONSTRUCTION.
16. CONTACT LONNIE RANDALL (434) 970-3363 2 WEEKS IN ADVANCE OF PAVEMENT MARKING INSTALLATION.
17. LOCATIONS OF SIGNALS SHALL BE DETERMINED IN THE FIELD BY A REPRESENTATIVE OF THE CITY OF CHARLOTTESVILLE.
18. ALL HANDHOLES SHALL BE POSITIONED FACING SIDEWALK. IF THERE IS NO SIDEWALK, HANDHOLES SHALL BE POSITIONED FACING ROADWAY.

CHARLOTTESVILLE MAST ARM POLE SPECIFICATIONS

ALL MAST ARM POLES SHALL MEET THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS DATED 2016, INCLUDING ANY SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS. ALL MAST ARM POLES SHALL BE MP-3 AS SHOWN IN THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS. THE MP-3 POLES SHALL BE MODIFIED AS FOLLOWS:

1. POLES TO BE 21' IN HEIGHT AND ONE PIECE DESIGN.
2. POLES AND ARMS TO BE ROUND AND CONTINUOUSLY TAPERED.
3. MAST ARM POLES SHALL BE SUPPLIED WITH A 24 POSITION TWO-POLE TERMINAL STRIP ATTACHED JUST ABOVE THE 4" X 8" HANDHOLE OPENING WITH A WEATHEREPROOF COVER ENCLOSING BOTH THE HANDHOLE AND THE TERMINAL STRIP. THE TERMINAL STRIP SHALL BE DESIGNED FOR ATTACHING WIRES USING B14-10F STA-KONS (UL LISTED 104B).
4. MAST ARM POLES SHALL NOT BE GALVANIZED BUT SHALL BE DOUBLE PRIMED; POWDER COATED GREEN (DARK FOREST).
5. THERE SHALL BE NO HOLES IN THE POLE ARMS FOR MOUNTING SIGNALS.
6. FIVE 1" ID RUBBER GROMMETS SHALL BE SUPPLIED WITH EACH ARM.
7. TRAFFIC SIGNAL HEADS SHALL BE ASSUMED TO BE 12" ALUMINUM WITH BACKPLATES AND RIGID MOUNTING. SIGNAL POLES SHALL BE DESIGNED TO VDOT STANDARD LOADINGS FOR THE SPECIFIED MAST ARM LENGTHS AS STATED IN THE 2016 ROAD AND BRIDGE STANDARDS.
8. A MINIMUM OF FOUR ANCHOR BOLTS AND EIGHT NUTS SHALL BE SUPPLIED WITH EACH POLE. THE ANCHOR BOLTS AND NUTS SHALL BE SHIPPED WITHIN ONE WEEK OF NOTIFICATION OF ACCEPTANCE OF BID.
9. DETAILED DRAWINGS AND CATALOG CUTS SHALL BE SUBMITTED WITH THE BIDS.

GENERAL NOTES

1. ALL MATERIALS AND EQUIPMENT SHALL COMPLY WITH THE LATEST CITY OF CHARLOTTESVILLE TRAFFIC SIGNAL SPECIFICATIONS.
2. ALL CATALOG CUTS/ SHOP DRAWINGS FOR EQUIPMENT AND MATERIAL SHALL BE SUBMITTED TO THE CITY OF CHARLOTTESVILLE TRAFFIC ENGINEER, FOR REVIEW PROCESS.
3. ONCE THE SIGNAL WORK IS COMPLETED, FINAL INSPECTION OF WORK PERFORMED AND THE (30) DAY TEST PERIOD HAS BEEN SATISFIED, THE CITY OF CHARLOTTESVILLE WILL ASSUME MAINTENANCE.
4. QUANTITIES AS SHOWN ARE APPROXIMATE ONLY. CONTRACTORS ARE RESPONSIBLE FOR MAKING THEIR OWN TAKE-OFFS AND COMPLETING THE PROJECT TO THE FULL INTENT OF THE PLAN.
5. CONTACT LONNIE RANDALL (434) 970-3363 2 WEEKS IN ADVANCE TO SCHEDULE ELECTRICAL INSPECTION.

STANDARD TRAFFIC SIGNAL LEGEND

PLAN ITEM	PLAN SYMBOL	
	PROPOSED	EXISTING
METAL SIGNAL POLE & FOUNDATION AND MAST ARM (AS NOTED IN SIGNAL POLE LEGEND)		
PEDESTAL POLE AND FOUNDATION (ST'D. PF-2)		
PEDESTAL POLE AND FOUNDATION (ST'D. PA-3)		
TRAFFIC SIGNAL HEAD w/ BACKPLATE		
TRAFFIC SIGNAL HEAD w/o BACKPLATE		
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSHBUTTON & SIGN	PA	PA
TRAFFIC SIGNAL SIGN MAST ARM OR SPAN WIRE MT'D.		
TRAFFIC SIGNAL SIGN POLE MOUNTED		
EMERGENCY VEHICLE PRE-EMPTION (EVP) SENSOR w/ CONF. LIGHT		
EMERGENCY VEHICLE PRE-EMPTION (EVP) SENSOR w/o CONF. LIGHT		
VIDEO DETECTION CAMERA		
JUNCTION BOX (ST'D. AS NOTED ON PLANS)	J	J
SIGNAL LUMINAIRE (250 W) AND ARM		
SIGNAL LUMINAIRE (400 W) AND ARM		
LOOP DETECTOR (SIZE AS NOTED ON PLANS)	6' x 20'	6' x 20'
VIDEO DETECTION ZONE (SIZE AS NOTED ON PLANS)	VDZ 6' x 20'	VDZ 6' x 20'
CONDUIT		

PLAN ITEM		PLAN SYMBOL	
		PROPOSED	EXISTING
ELECTRICAL SERVICE METER		SM	SM
ELECTRICAL SERVICE SAFETY SWITCH (DISCONNECT)		SD	SD
CONTROLLER CABINET	GROUND MOUNTED		
CONTROLLER CABINET	POLE MOUNTED		
MASTER CONTROLLER CABINET	GROUND MOUNTED		
MASTER CONTROLLER CABINET	POLE MOUNTED		
CONTROLLER CABINET FOUNDATION	STD. CF-1		
CONTROLLER CABINET FOUNDATION	STD. CF-3		
CONTROLLER CABINET FOUNDATION	STD. CF-4		
MASTER CONTROLLER CABINET & FOUNDATION	STD. CF-1		
MASTER CONTROLLER CABINET & FOUNDATION	STD. CF-3		
MASTER CONTROLLER CABINET & FOUNDATION	STD. CF-4		
UNINTERRUPTIBLE POWER SUPPLY CABINET			

LABELS					
SIGNAL POLE OR CONTROLLER	A	PROPOSED SIGNAL HEAD	2	SIGNAL PHASING	Ø2
CABLE AND CONDUIT	A	EXISTING SIGNAL HEAD	2	SIGN	S-1
JUNCTION BOX	S3	PROPOSED PEDESTRIAN SIGNAL HEAD	P2	VIDEO DETECTION CAMERA	VDC-1
		EXISTING PEDESTRIAN SIGNAL HEAD	P2	EMERGENCY PREEMPTION DETECTOR	EVP-1

60% PLANS

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DATE 06/18/2021
DRAWN BY ALS
DESIGNED BY ALS
CHECKED BY DRL
SCALE 1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
TRAFFIC SIGNAL GENERAL NOTES & LEGEND

JOB NO. 43569
SHEET NO. 10(1)

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Project #: NHPP-5104(275)
UPC: 111796

ESTIMATED QUANTITY SUMMARY

SUMMARY NOTE(S)	(6)				(1) (4)		(5)	(2) (3)		(5)	(5)	(5)	(5)	(5)	(5)	(5)	(7)																								
INTERSECTION	RELOCATE EXIST. VIDEO DETECTION CAMERA	ADJUST EXIST. JUNCTION BOX	MODIFY EXISTING CONTROLLER CABINET	SIGN PANEL	TRAF. SIG. HEAD SECTION 12" LED	PEDESTAL POLE PF-2 8'	PEDESTAL POLE PF-2 12'	CONCRETE FOUNDATION SIGNAL POLE PF-8	CONCRETE FOUNDATION PF-2	CITY OF CHARLOTTESVILLE SINGLE MAST ARM POLE	CITY OF CHARLOTTESVILLE DOUBLE MAST ARM POLE w/ HEIGHT FOR LUMINAIRE	MAST ARM 40'	MAST ARM 65'	NS MAST ARM 35'	NS MAST ARM 45'	NS MAST ARM 55'	EVP DETECTION SYSTEM 4-WAY	EVP DETECTOR CABLE	VIDEO DETECTION CAMERA 360 DEGREE, FISHEYE	14/2 CONDUCTOR CABLE	14/3 CONDUCTOR CABLE	14/4 CONDUCTOR CABLE	14/7 CONDUCTOR CABLE	14/10 CONDUCTOR CABLE	14/2 CONDUCTOR CABLE SHIELDED	CAT 5E DIRECT BURIAL CABLE	HANGER ASSEMBLY SM-3, ONE WAY	SIGNAL HEAD MOUNTING (STD. SMB-3), ONE-WAY	TRAFFIC SIGNALIZATION ACCESSIBLE PED PUSH BUTTON (PA-2)	TRAFFIC SIGNALIZATION ACCESSIBLE PED PUSH BUTTON (PA-4)	PEDESTRIAN SIGNAL HEAD SP-9	JUNCTION BOX JB-S2	BORED CONDUIT 2"	BORED CONDUIT 3"	2" PVC CONDUIT	3" PVC CONDUIT	TRENCH EXCAVATION EC-1	TRENCH EXCAVATION EC-2	TEST BORE	LUMINAIRE ARM 15'	LIGHTING LED LUMINAIRE, POLE MOUNTED	
ITEM NUMBER	24505	24535	24825	50108	51184	51208	51212	51238	51240	51484	51484	51487	51489	51499	51499	51499	51524	51525	51541	51600	51601	51602	51607	51610	51700	51721	51830	51838	52002	52002	52404	55587	56050	56051	56053	56054	56200	56202	56205	55179	5900	
UNIT	EA	EA	EA	SF	EA	EA	EA	CY	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	EA	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	LF	LF	LF	LF	LF	LF	EA	EA	EA	
EMMET ST & BARRACKS RD	1	2	1	82.875	52	1	5	36	6	3	1	1	1	1	1	1	1	920	1	310	920	340	8,780	1,565	1,225	450	17	10	8	2	10	3	100	200	170	135	60	205	4	1	1	
TOTAL	1	2	1	82.875	52	1	5	36	6	3	1	1	1	1	1	1	1	920	1	310	920	340	8,780	1,565	1,225	450	17	10	8	2	10	3	100	200	170	135	60	205	4	1	1	

SUMMARY NOTES

(1.) INCLUDED IN THIS BID ITEM ARE BACKPLATES & CAP STYLE VISORS FOR ALL SIGNAL HEAD SECTIONS. SIGNAL HEAD AND VISORS SHALL ALL BE YELLOW.

(2.) INCLUDED IN THIS BID ITEM IS THE COST FOR THE DESIGN OF THE SIGNAL POLE FOUNDATION.

(3.) THE CONTRACTOR SHALL STAKE SIGNAL POLE LOCATIONS AND VERIFY MAST ARM LENGTHS WITH THE CITY OF CHARLOTTESVILLE PRIOR TO DRILLING FOUNDATIONS. CONTACT LONNIE RANDALL (434) 970-3363 FOR VERIFICATION.

(4.) THIS BID ITEM PROVIDES FOR ALL SOLID AND ARROW SIGNAL HEADS TO BE L.E.D. THE ITEM SHALL INCLUDE THE COST OF DUAL ARROW L.E.D. DISPLAYS AS SPECIFIED ON THE PLANS

(5.) ALL SIGNAL POLES AND PEDESTAL POLES SHALL BE POWDER COATED GREEN (DARK FOREST) DURING FABRICATION.

(6.) INCLUDED IN THIS PAY ITEM SHALL BE THE COST OF A NEW MOUNTING BRACKET(S). EXISTING BRACKET(S) SHALL NOT BE REUSED.

(7.) PAY ITEM SHALL INCLUDE EVP DETECTION SENSORS EQUIPPED WITH CONFIRMATION LIGHTS.

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Site Development | Residential | Infrastructure | Technology

REVISION DESCRIPTION	DATE
30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS	3/20/2020
60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	7/31/2020
60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	2/12/2021

DATE: 06/18/2021
DRAWN BY: ALS
DESIGNED BY: ALS
CHECKED BY: DRL
SCALE: 1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
TRAFFIC SIGNAL SUMMARY OF QUANTITIES

JOB NO. 43569
SHEET NO. 10(2)

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Project #: NHPP-5104(275)
UPC: 111796

60% PLANS

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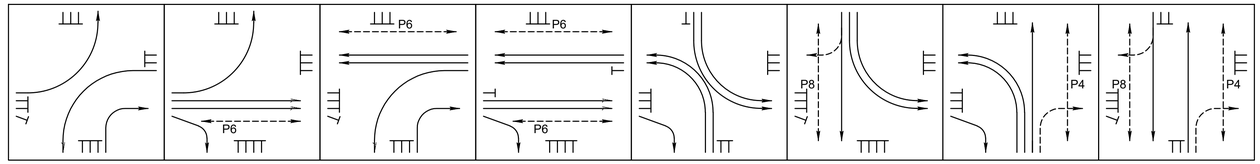
PHASING DIAGRAM



Ø1-5	Ø1-6	Ø2-5	Ø2-6	Ø3-7	Ø3-8	Ø4-7	Ø4-8
OL-B	EVP-6	OL-B	P2, P6	OL-A	P8	OL-A	P4, P8
	P6	EVP-2				P4	

PEDESTRIAN PHASING NOTE:
PEDESTRIAN CROSSINGS P4 AND P8 SHALL FEATURE A 3 SECOND "LEADING" PHASE TO ALLOW PEDESTRIANS TO BEGIN CROSSING BEFORE RIGHT TURNING TRAFFIC RECIEVES A GREEN INDICATION.

COLOR SEQUENCE CHART

SIGNAL \ PHASE	Ø1-5	Ø1-6	Ø2-5	Ø2-6	Ø3-7	Ø3-8	Ø4-7	Ø4-8	FLASH
1	→G	→G							→R
2			G	G					Y
3					→G	→G			→R
4							G	G	R
4A	G→		G→				G	G	R
5	→G		→G						→R
6		G		G					Y
6A		G→		G→	G→		G→		Y→
7					→G		→G		→R
8						G		G	R
P2	DW	DW	W	W	DW	DW	DW	DW	BLANK
P4	DW	DW	DW	DW	DW	DW	W	W	BLANK
P6	DW	W	DW	W	DW	DW	DW	DW	BLANK
P8	DW	DW	DW	DW	DW	W	DW	W	BLANK

- EMPTY BOX DENOTES RED INDICATION (RED BALL OR RED ARROW AS APPROPRIATE)

CONDUIT & WIRING LEGEND

(A) EXISTING 3" CONDUIT(*)
8 - 14/10c
2 - 14/4c
2- 14/2c(PB)
4 - 14/3c(L)
2 - CAT5e(S)(VIDEO)
1 - EGC(*)
EXISTING 3" CONDUIT(*)
17 - 14/7c
4 - EVP
1 - EGC(*)
EXISTING 2" CONDUIT(*)
2 - 14/2c(S)
2 - 14/2c(S)(*)
1 - EGC(*)

(B) 3" BORED CONDUIT
5 - 14/10c
1 - 14/4c
1- 14/2c(PB)
1 - EGC
3" BORED CONDUIT
10 - 14/7c
2 - 14/3c(L)
2 - EVP
1 - CAT5e(S)(VIDEO)
1 - EGC
2" BORED CONDUIT
2 - 14/2c(S)
1 - EGC

(C) EXISTING 3" CONDUIT(*)
2 - 14/10c
3 - 14/7c
1 - 14/3c(L)
1 - EVP
1 - CAT5e(S)(VIDEO)
1 - EGC(*)
EXISTING 2" CONDUIT(*)
2 - 14/2c(S)
1 - EGC(*)

(D) EXISTING 3" CONDUIT(*)
2 - 14/10c
3 - 14/7c
1 - 14/3c(L)
1 - EVP
1 - CAT5e(S)(VIDEO)
1 - EGC
EXISTING 3" CONDUIT(*)
2 - 14/2c(S)
1 - EGC(*)

(E) EXISTING 3" CONDUIT(*)
1 - 14/10c
4 - 14/7c
1 - 14/4c
1 - 14/3c
1 - 14/2c(PB)
1 - EGC(*)
EXISTING 2" CONDUIT(*)
2 - 14/2c(S)
1 - EGC(*)

(F) 3" CONDUIT
1 - 14/10c
3 - 14/7c
1 - 14/3c(L)
1 - EVP
1 - CAT5e(S)(VIDEO)
1 - EGC
3" CONDUIT (SPARE)
1 - EGC

(G) 3" CONDUIT
3 - 14/7c
1 - 14/3c(L)
1 - EVP
1 - CAT5e(S)(VIDEO)
1 - EGC

(H) 3" CONDUIT
1 - 14/10c
7 - 14/7c
1 - 14/4c
1 - 14/3c(L)
1 - EVP
1 - EGC

(J) 3" CONDUIT
1 - 14/10c
4 - 14/7c
1 - 14/4c
1 - 14/3c(L)
1 - EVP
1 - EGC

(K) 2" CONDUIT
1 - 14/10c
1 - EGC

(L) 2" CONDUIT
1 - 14/2c(PB)
1 - EGC

(M) EXISTING 2" CONDUIT(*)
2 - 14/2c(S)
1 - EGC(*)

(N) EXISTING 2" CONDUIT(*)
2 - 14/2c(S)(*)
1 - EGC(*)

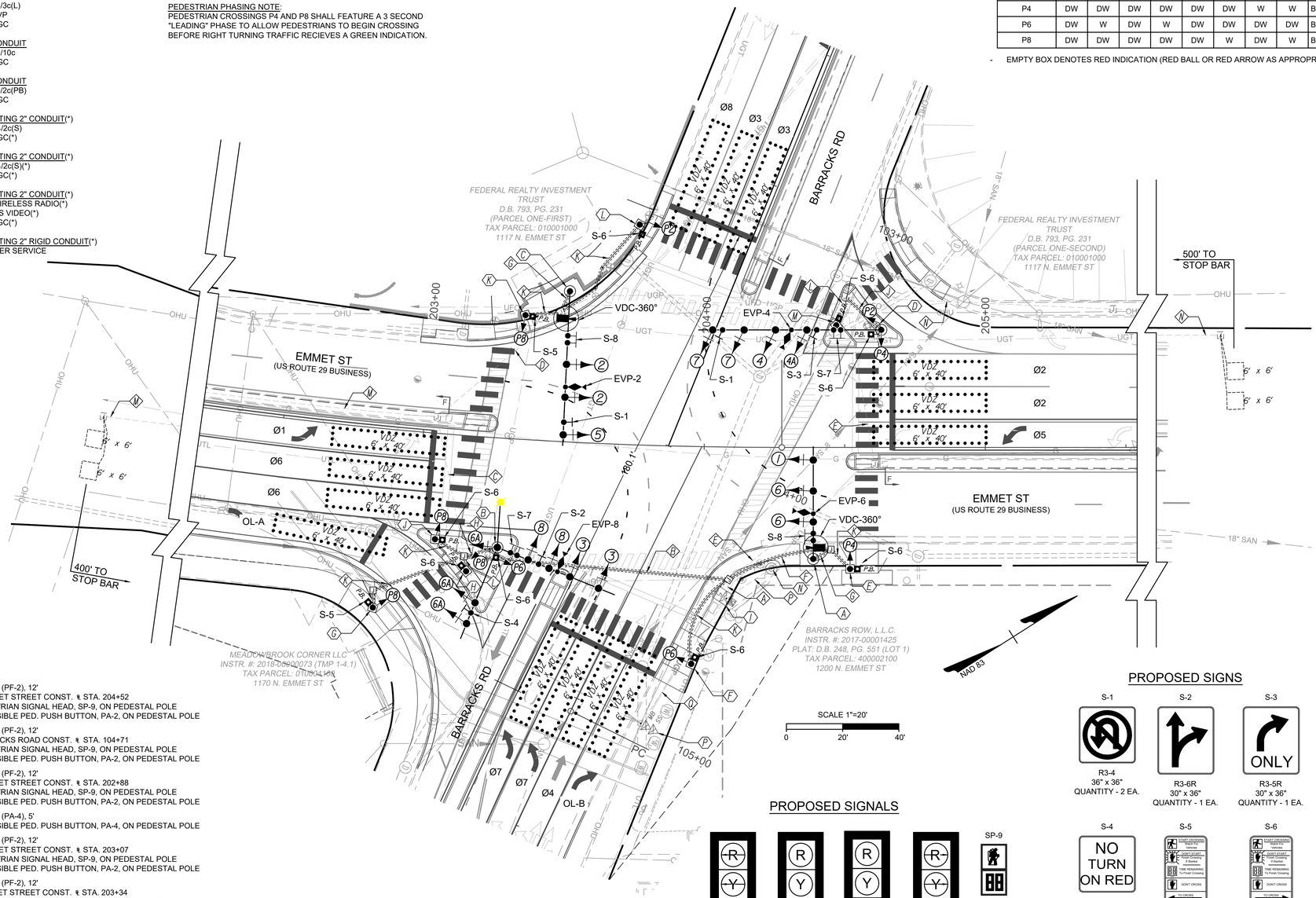
(P) EXISTING 2" CONDUIT(*)
3 - WIRELESS RADIO(*)
1 - ITS VIDEO(*)
1 - EGC(*)

(Q) EXISTING 2" RIGID CONDUIT(*)
POWER SERVICE

CONDUIT & WIRING NOTES

(*) - DENOTES EXISTING CABLE/CONDUIT TO REMAIN
(PB) - DENOTES "PUSH BUTTON"
(S) - DENOTES SHIELDED CABLE
(L) - DENOTES EVP CONFIRMATION LIGHT POWER

ALL CONDUITS AND CABLES SHOWN ARE NEW UNLESS NOTED BY (*)



SCALE 1"=20'
0 20' 40'

SIGNAL POLE & CONTORLLER LEGEND

(I) EXISTING CONTROLLER CABINET, UPS, & FOUNDATION

(A) CITY OF CHARLOTTESVILLE SINGLE MAST ARM POLE
39.7' RT OF EMMET STREET CONST. ℄ STA. 204+39
40' ARM PERPENDICULAR TO EMMET STREET
SIGNAL PLACEMENT: 13', 24', 35'
SIGN PLACEMENT: 7.5'
VIDEO DETECTOR: 4' (360° CAMERA)
EMERGENCY PREEMPTION DETECTOR: 16'

(B) CITY OF CHARLOTTESVILLE DOUBLE MAST ARM POLE
49.2' RT OF BARRACKS ROAD CONST. ℄ STA. 104+64
45' ARM 266° ANGLE TO BARRACKS ROAD
SIGNAL PLACEMENT: 12', 20', 28', 39'
SIGN PLACEMENT: 6.5'
EMERGENCY PREEMPTION DETECTOR: 23'
35' ARM 356° ANGLE TO BARRACKS ROAD
SIGNAL PLACEMENT: 0', 21', 29'
SIGN PLACEMENT: 25'
INSTALL PEDESTRIAN SIGNAL HEADS, SP-9, ON SIGNAL POLE
INSTALL ACCESSIBLE PED. PUSH BUTTON, PA-2, ON SIGNAL POLE
15' LUMINAIRE ARM PERPENDICULAR TO EMMET STREET

(C) CITY OF CHARLOTTESVILLE SINGLE MAST ARM POLE
53.6' LT OF EMMET STREET CONST. ℄ STA. 203+49
55' ARM 90° ANGLE TO EMMET STREET CONST. ℄
SIGNAL PLACEMENT: 26', 38', 51'
SIGN PLACEMENT: 17'
VIDEO DETECTOR: 10' (360° CAMERA)
EMERGENCY PREEMPTION DETECTOR: 34'

(D) CITY OF CHARLOTTESVILLE SINGLE MAST ARM POLE
41.8' LT OF EMMET STREET CONST. ℄ STA. 204+63
65' ARM 180° ANGLE TO EMMET STREET
SIGNAL PLACEMENT: 26.5', 37.5', 49', 60'
SIGN PLACEMENT: 16', 23'
EMERGENCY PREEMPTION DETECTOR: 32'
INSTALL PEDESTRIAN SIGNAL HEADS, SP-9, ON SIGNAL POLE
INSTALL ACCESSIBLE PED. PUSH BUTTON, PA-2, ON SIGNAL POLE

(E) PEDESTAL POLE (PF-2), 12'
43.2' RT OF EMMET STREET CONST. ℄ STA. 204+52
INSTALL PEDESTRIAN SIGNAL HEAD, SP-9, ON PEDESTAL POLE
INSTALL ACCESSIBLE PED. PUSH BUTTON, PA-2, ON PEDESTAL POLE

(F) PEDESTAL POLE (PF-2), 12'
31' LT OF BARRACKS ROAD CONST. ℄ STA. 104+71
INSTALL PEDESTRIAN SIGNAL HEAD, SP-9, ON PEDESTAL POLE
INSTALL ACCESSIBLE PED. PUSH BUTTON, PA-2, ON PEDESTAL POLE

(G) PEDESTAL POLE (PF-2), 12'
63.8' RT OF EMMET STREET CONST. ℄ STA. 202+88
INSTALL PEDESTRIAN SIGNAL HEAD, SP-9, ON PEDESTAL POLE
INSTALL ACCESSIBLE PED. PUSH BUTTON, PA-2, ON PEDESTAL POLE

(H) PEDESTAL POLE (PA-4), 5'
INSTALL ACCESSIBLE PED. PUSH BUTTON, PA-4, ON PEDESTAL POLE

(J) PEDESTAL POLE (PF-2), 12'
37.6' RT OF EMMET STREET CONST. ℄ STA. 203+07
INSTALL PEDESTRIAN SIGNAL HEAD, SP-9, ON PEDESTAL POLE
INSTALL ACCESSIBLE PED. PUSH BUTTON, PA-2, ON PEDESTAL POLE

(K) PEDESTAL POLE (PF-2), 12'
44.2' LT OF EMMET STREET CONST. ℄ STA. 203+34
INSTALL PEDESTRIAN SIGNAL HEAD, SP-9, ON PEDESTAL POLE
INSTALL ACCESSIBLE PED. PUSH BUTTON, PA-2, ON PEDESTAL POLE

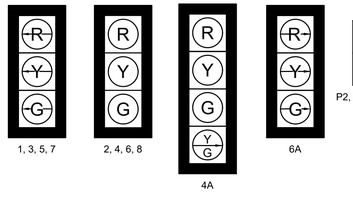
(L) PEDESTAL POLE (PF-2), 8'
39' RT OF BARRACKS ROAD CONST. ℄ STA. 103+31
INSTALL PEDESTRIAN SIGNAL HEAD, SP-9, ON PEDESTAL POLE
INSTALL ACCESSIBLE PED. PUSH BUTTON, PA-2, ON PEDESTAL POLE

(M) PEDESTAL POLE (PA-4), 5'
INSTALL ACCESSIBLE PED. PUSH BUTTON, PA-4, ON PEDESTAL POLE

(N) EXISTING CCTV CAMERA POLE
EXISTING CCTV CAMERA ON POLE
EXISTING WIRELESS BROADBAND RECEIVERS ON POLE

(P) EXISTING ELECTRIC SERVICE CONNECTION (SE-2, TYPE A)
LOCATED ON EXIST. DOMINION POWER POLE

PROPOSED SIGNALS



1, 3, 5, 7 | 2, 4, 6, 8 | 4A | 6A | P2, P4, P6, P8

PROPOSED SIGNS

S-1

R3-4
36" x 36"
QUANTITY - 2 EA.

S-2

R3-6R
30" x 36"
QUANTITY - 1 EA.

S-3

R3-5R
30" x 36"
QUANTITY - 1 EA.

S-4

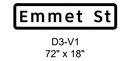
R10-11B
36" x 36"
QUANTITY - 1 EA.

S-5

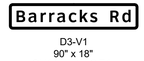
R10-3E(L)
9" x 15"
QUANTITY - 1 EA.

S-6

R10-3E(R)
9" x 15"
QUANTITY - 9 EA.

S-7


D3-V1
72" x 18"
QUANTITY - 2 EA.

S-8


D3-V1
90" x 18"
QUANTITY - 2 EA.

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DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
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DATE 06/18/2021
DRAWN BY ALS
DESIGNED BY ALS
CHECKED BY DRL
SCALE 1"=20'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

TRAFFIC SIGNAL PLAN

JOB NO. 43569
SHEET NO. 10(3)

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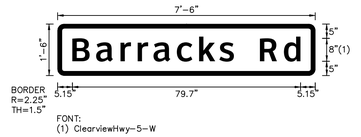
Project #: NHPP-5104(275)
UPC: 111796

SIGN DETAIL
1:25



FONT:
(1) ClearviewHwy-5-W

Panel Style: D3-V1 - 90 x 18.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

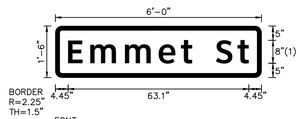
SIGN NUMBER	name
WIDTH x HGHT.	7'-6" x 1'-6"
BORDER WIDTH	1.5"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

B	a	r	r	a	c	k	s		R	d	LENGTH	SERIES/SIZE
5.1	13.5	22	28	33.5	41.7	49.4	56.5	61.6	70.7	79.1	79.7	ClearviewHwy-5-W 8/6.5

SIGN DETAIL
1:25



FONT:
(1) ClearviewHwy-5-W

Panel Style: D3-V1 - 72 x 18.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	name
WIDTH x HGHT.	6'-0" x 1'-6"
BORDER WIDTH	1.5"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

E	m	m	e	t		S	t												LENGTH	SERIES/SIZE
4.4	12.2	24.3	36.1	43.9	47.8	56.1	63.6												63.1	ClearviewHwy-5-W 8/6.5

60% PLANS

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DATE: 06/18/2021
DRAWN BY: ALS
DESIGNED BY: ALS
CHECKED BY: DRL
SCALE: 1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

TRAFFIC SIGNAL STREET NAME SIGN LAYOUTS

JOB NO. 43569
SHEET NO. 10(4)

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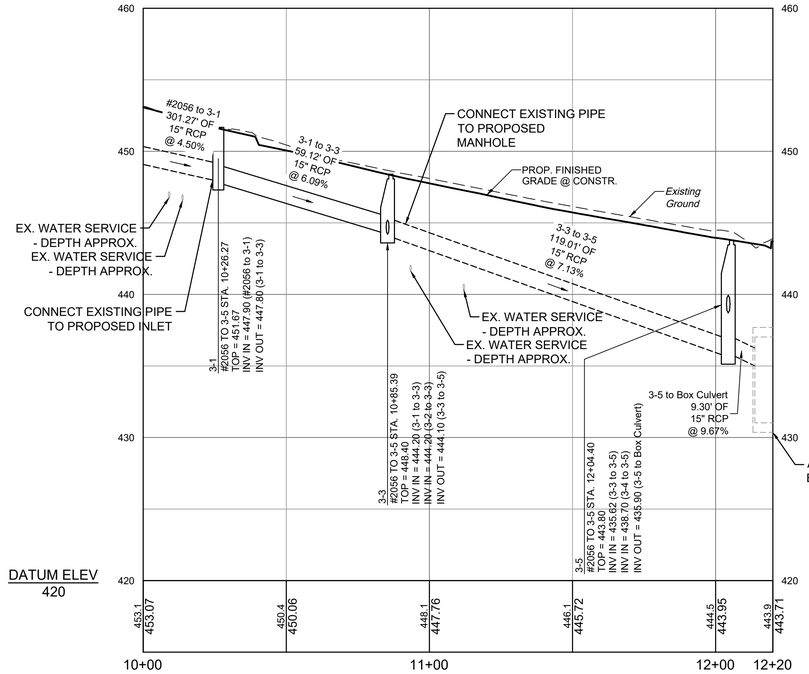
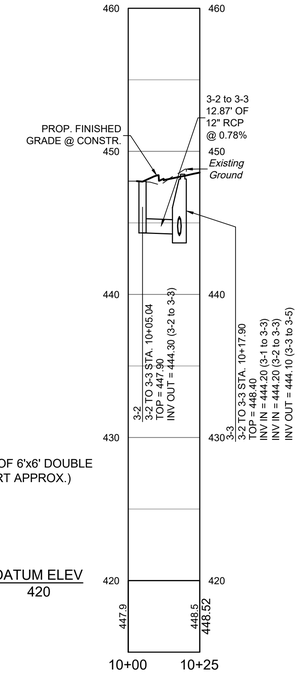
Project #: NHPP-5104(275)
UPC: 111796

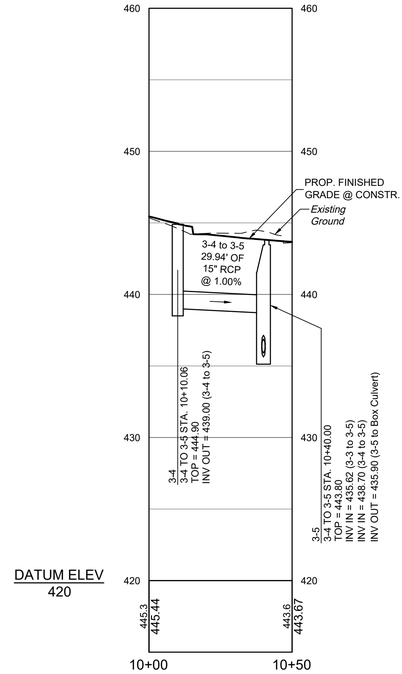
#2056 TO 3-5



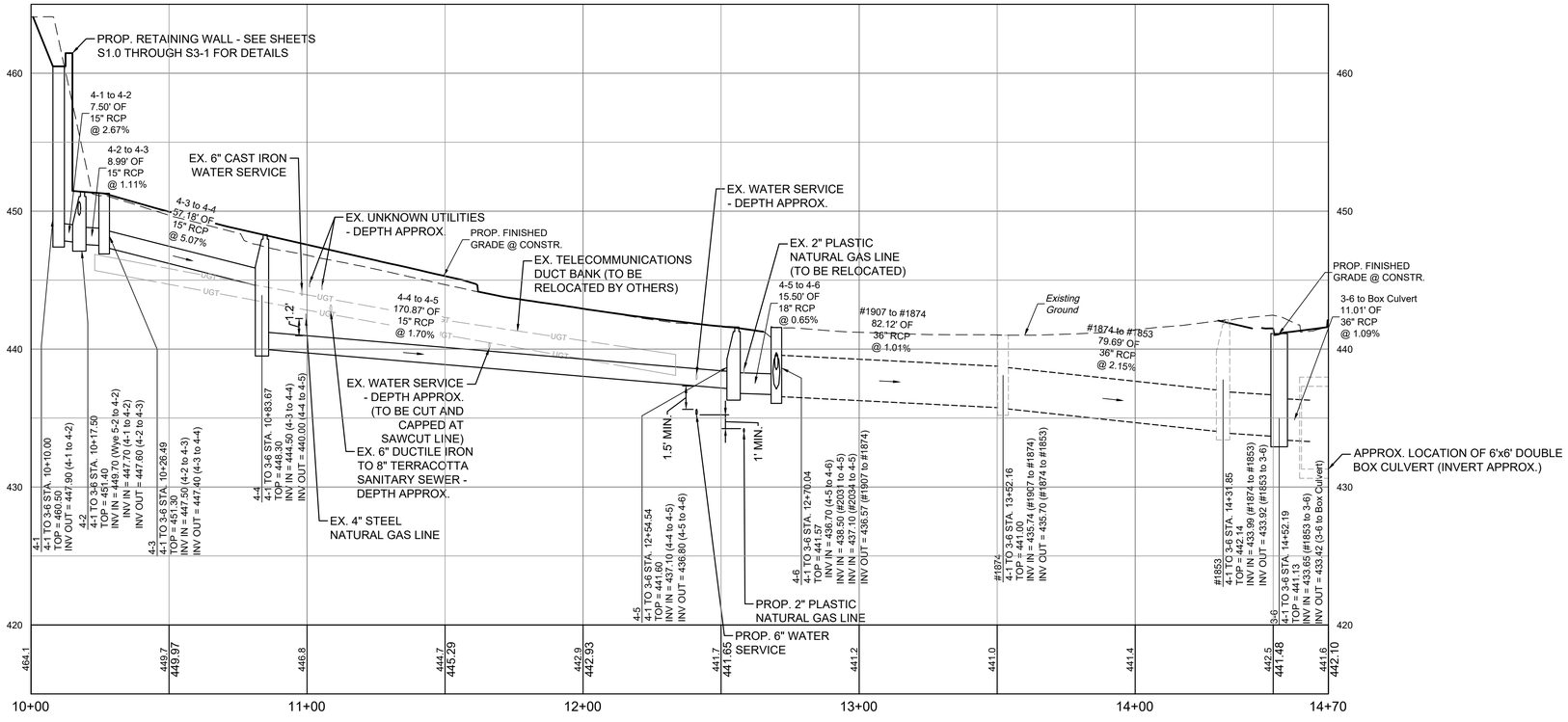
3-2 TO 3-3



3-4 TO 3-5



4-1 TO 3-6



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0
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PROFILE SCALE

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60% PLANS

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DATE
06/18/2021
DRAWN BY
KJH
DESIGNED BY
KJH
CHECKED BY
BTC
SCALE
AS SHOWN

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

STORM SEWER PROFILES

JOB NO.
43569
SHEET NO.
11

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Project #: NHPP-5104(275)
UPC: 111796

CONCEPT PLANT SCHEDULE

LARGE DECIDUOUS TREE
ACER SACCHARUM / SUGAR MAPLE
CARYA GLABRA / PIGNUT HICKORY
CELTIS OCCIDENTALIS / COMMON HACKBERRY
FAGUS GRANDIFOLIA / AMERICAN BEECH
LIRIODENDRON TULIPIFERA / TULIP POPLAR
NYSSA SYLVATICA / SOUR GUM
PLATANUS OCCIDENTALIS / AMERICAN SYCAMORE
QUERCUS PHELLOS / WILLOW OAK

UNDERSTORY TREES
AMELANCHIER CANADENSIS `AUTUMN BRILLIANCE` / AUTUMN BRILLIANCE SERVICEBERRY
CARPINUS CAROLINIANA / AMERICAN HORNBEAM
CERCIS CANADENSIS `APPALACHIAN RED` / EASTERN REDBUD
CORNUS FLORIDA `APPALACHIAN SNOW` / DOGWOOD APPALACHIAN SNOW

EVERGREEN TREE
ILEX OPACA / AMERICAN HOLLY
JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
PINUS TAEDA / LOBLOLLY PINE


EMMET STREET CONSTR.
BARRACKS RD - EAST CONSTR. R
BARRACKS ROAD R/W VARIES
S33° 44' 32.70"E
BLUE RIDGE RD
102+00
103+00
104+00
105+00
106+00
107+00
108+00
109+00
110+00
111+00
112+00
113+00
114+00
115+00
116+00
117+00
118+00
119+00
120+00
121+00
122+00
123+00
124+00
125+00
204+00
203+00
202+00
201+00
200+00
END PROJ.
0029-104-306 R201
STA. 124+29.69
PROP. TEMPORARY CONSTRUCTION EASEMENT
PROP. PERMANENT ACCESS EASEMENT FOR PUBLIC UTILITY EASEMENT
PROP. PERMANENT COMMON ENERGY UTILITY EASEMENT
PROP. TEMPORARY COMMON ENERGY CONSTRUCTION EASEMENT
TO PROP. CURB TO EX. CURB WID PROP. SIDEWALK TO EX. SIDEWALK
PROP. RIGHT-OF-WAY
PROP. TEMPORARY CONSTRUCTION EASEMENT
TO EX. CURB & GUTTER
PROP. PERMANENT COMMON ENERGY UTILITY EASEMENT
PROP. TEMPORARY CONSTRUCTION EASEMENT
PROP. TEMPORARY CONSTRUCTION EASEMENT
PROP. TEMPORARY CONSTRUCTION

Project #: NHPP-5104(275)
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ACER SACCHARUM / SUGAR MAPLE
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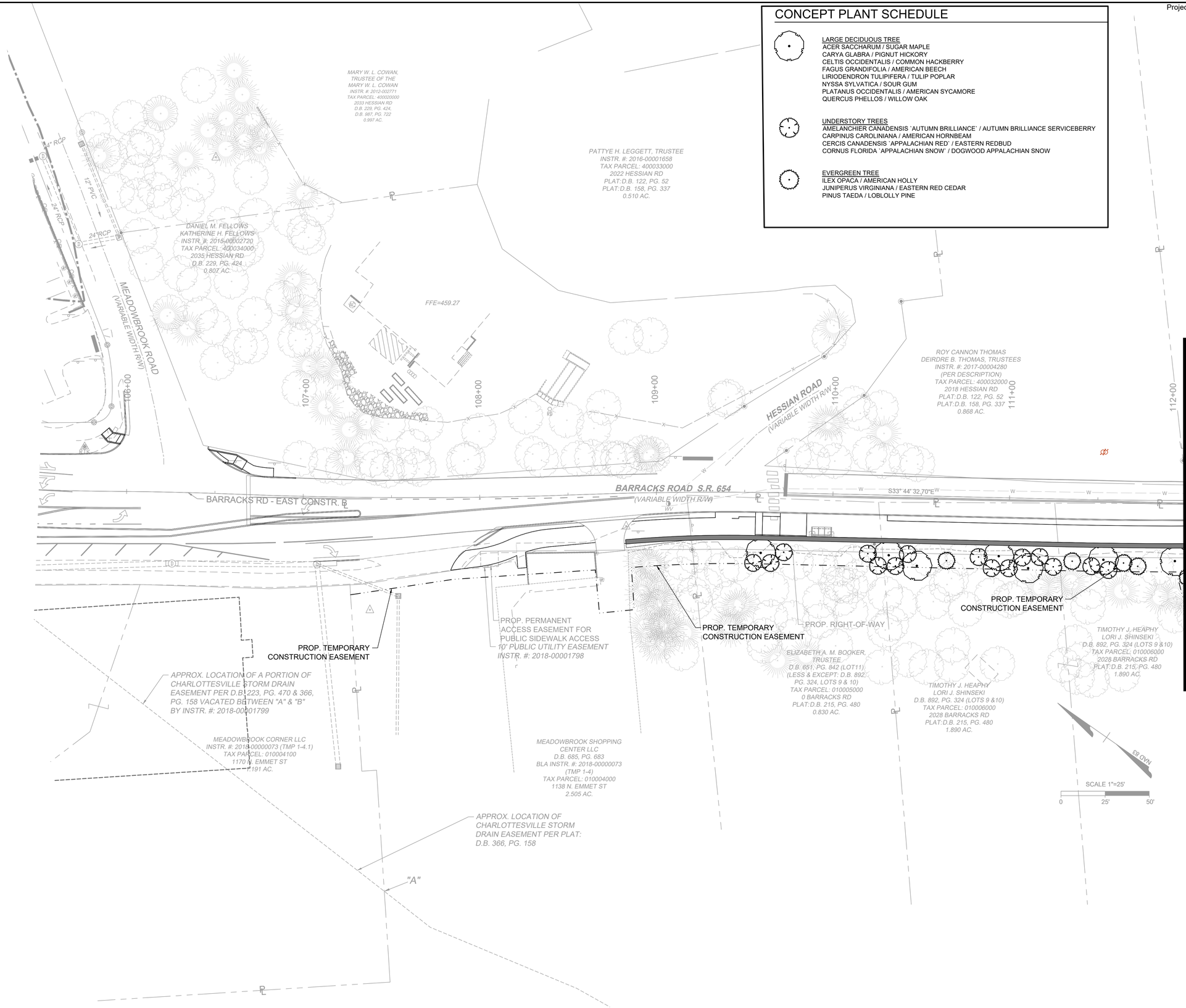
CORNUS FLORIDA `APPALACHIAN SNOW` / DOGWOOD APPALACHIAN SNOW

EVERGREEN TREE
ILEX OPACA / AMERICAN HOLLY
JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
PINUS TAEDA / LOBLOLLY PINE



60% PLANS

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DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
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2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE 06/18/2021
DRAWN BY MKW
DESIGNED BY MKW + NB
CHECKED BY NB
SCALE 1"=25'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

LANDSCAPE PLAN

JOB NO. 43569
SHEET NO. LS 01

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Project #: NHPP-5104(275)
UPC: 111796

CONCEPT PLANT SCHEDULE

LARGE DECIDUOUS TREE
ACER SACCHARUM / SUGAR MAPLE
CARYA GLABRA / PIGNUT HICKORY
CELTIS OCCIDENTALIS / COMMON HACKBERRY
FAGUS GRANDIFOLIA / AMERICAN BEECH
LIRIODENDRON TULIPIFERA / TULIP POPLAR
NYSSA SYLVATICA / SOUR GUM
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EVERGREEN TREE
ILEX OPACA / AMERICAN HOLLY
JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
PINUS TAEDA / LOBLOLLY PINE

SEE MATCHLINE SHEET LS 01 - STA. 112+00

SEE MATCHLINE SHEET LS 03 - STA. 118+50

LOT 83-B

LOT 83 (IN PART)
"MEADOWBROOK HILLS"
PLAT: D.B. 158, PG. 337
0.710 AC.

FREDERICK G. RIBBLE
ANNE BENEDICTA GOODSON
D.B. 374, PG. 277
PLAT: D.B. 360, PG. 597
TAX PARCEL: 400031000
2014 HESSIAN RD
PLAT:D.B. 158, PG. 337
0.813 AC.

10' STRIP - NF RED-LAND LAND CORPORATION, D.B. 152, PG. 220.
PLAT: D.B. 106, PG. 362 PLAT: D.B. 360, PG. 597

ANDREW DUNNINGTON
MOLLY DUNNINGTON
INSTR. #: 2012-005046
PLAT: D.B. 106, PG. 362
TAX PARCEL: 400030000
2010 HESSIAN RD
PLAT:D.B. 158, PG. 337
0.759 AC.

GREGORY ORR
PATRICA ORR
D.B. 522, PG. 817
PLAT: D.B. 522, PG. 820 (PARCEL B1)
D.B. 457, PG. 777
PLAT: D.B. 126, PG. 181 (LOT 83-B)
TAX PARCEL: 400028000
2006 HESSIAN RD
PLAT:D.B. 158, PG. 337
0.710 AC.

J. DAVID SUMMERS
NANCY E. SUMMERS
D.B. 522, PG. 817
PLAT: D.B. 522, PG. 820 (PARCEL B2)
D.B. 451, PG. 36
PLAT: D.B. 451, PG. 38 (PARCEL A)
TAX PARCEL: 400029000
1201 BLUE RIDGE RD
PLAT:D.B. 158, PG. 337
1.017 AC.

PARCEL A
LOT 84 (IN PART)
"MEADOWBROOK HILLS"
1.017 AC.

BLUE RIDGE ROAD
(VARIABLE WIDTH R/W)

112+00 113+00 114+00 115+00 116+00 117+00 118+00

BARRACKS ROAD S.R. 654
(VARIABLE WIDTH R/W)

E BARRACKS RD - EAST CONSTR.

HYD

2x WM

EXISTING 1/2" PE GAS SERVICE

PROP. TEMPORARY CONSTRUCTION EASEMENT

PROP. RIGHT-OF-WAY

EXISTING 1/2" PE GAS SERVICE (SHOWN PER CITY GIS DATA - NOT FIELD LOCATED)

PROP. RIGHT-OF-WAY

THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14
(LOT 3)
TAX PARCEL: 020001000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.148 AC.

PROP. PERMANENT DOMINION ENERGY UTILITY EASEMENT

PROP. TEMPORARY CONSTRUCTION EASEMENT

EXISTING 1/2" PE GAS SERVICE

GREGORY A. MENKE
CHRISTINA P. MENKE
D.B. 430, PG. 456 (LOTS 7 & 8)
PLAT: D.B. 256, PG. 347
TAX PARCEL: 010007000
1930 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.069 AC.

TIMOTHY J. HEAPHY
LORI J. SHINSEKI
D.B. 892, PG. 324 (LOTS 9 &10)
TAX PARCEL: 010006000
2028 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.890 AC.

GREGORY A. MENKE
CHRISTINA P. MENKE
D.B. 430, PG. 456 (LOTS 7 & 8)
PLAT: D.B. 256, PG. 347
TAX PARCEL: 010007000
1930 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.069 AC.

THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14 (LOT 6 & NW 25' OF LOT 5)
TAX PARCEL: 010008000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.369 AC.

THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14 (LOT 6 & NW 25' OF LOT 5)
TAX PARCEL: 010008000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
1.369 AC.

THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14 (LOT 6 & NW 25' OF LOT 5)
TAX PARCEL: 010009000
1920 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.026 AC.

THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14 (LOT 6 & NW 25' OF LOT 5)
TAX PARCEL: 010009000
1920 BARRACKS RD
PLAT:D.B. 215, PG. 480
2.026 AC.

NVAD 83

SCALE 1"=25'
0 25' 50'

THOMAS F. GALLAGHER
WILL INSTR. #:2015-00000044
D.B. 455, PG. 14
(LOT 3)
TAX PARCEL: 020002000
0 BARRACKS RD
PLAT:D.B. 215, PG. 480
0.574 AC.

60% PLANS

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TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

LANDSCAPE PLAN

JOB NO. 43569
SHEET NO. LS 02

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CONCEPT PLANT SCHEDULE

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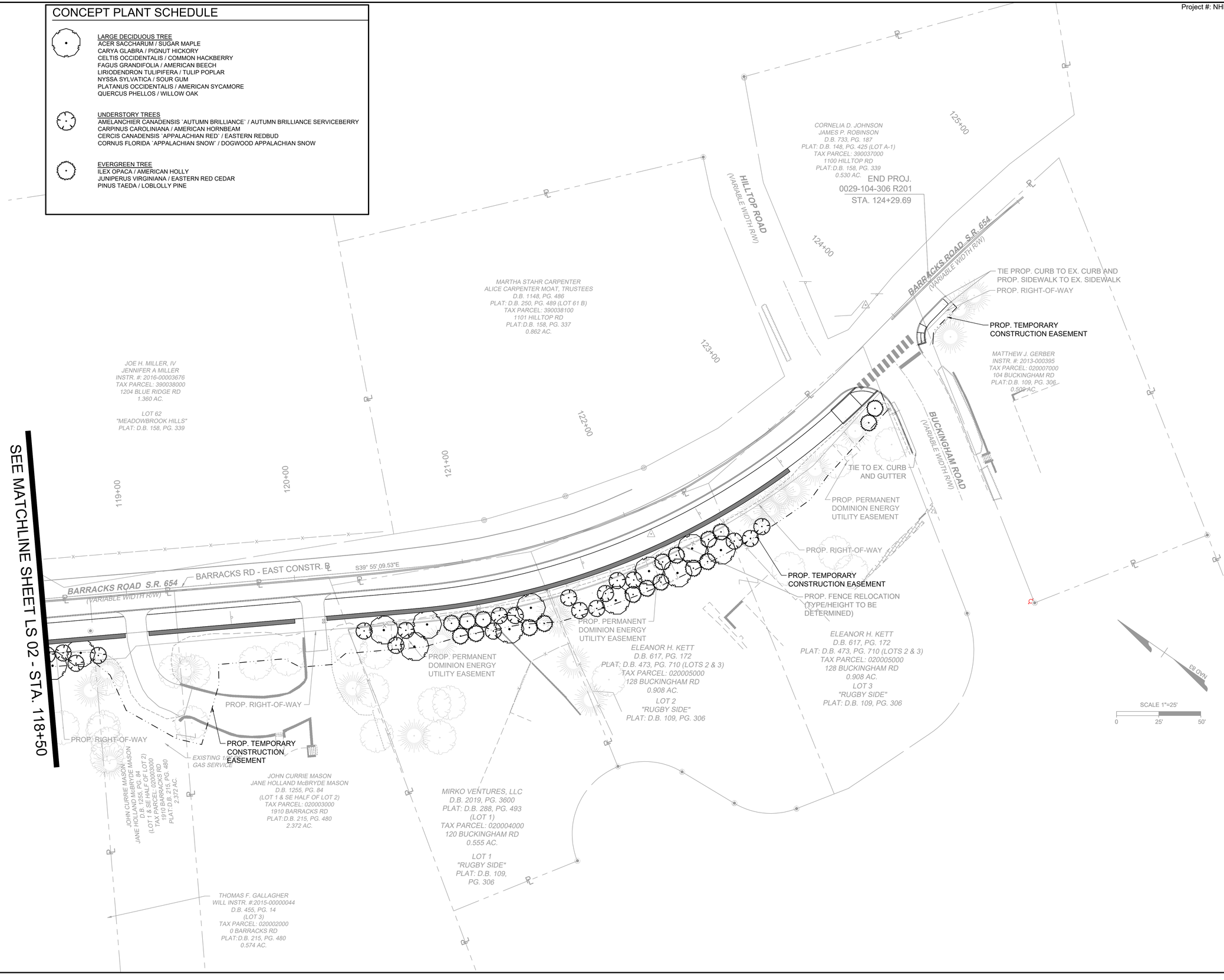

Project #: NHPP-5104(275)
UPC: 111796

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BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

LANDSCAPE PLAN

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SHEET NO. LS 03

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Project #: NHPP-5104(275)
UPC: 111796

STRUCTURAL NOTES

DESIGN

DESIGN IS IN ACCORDANCE WITH THE VIRGINIA UNIFORM STATE BUILDING CODE (USBC), DATED 2015, AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH ED, DATED 2017, AND THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE STANDARDS, 2020 AND INCLUDING ALL REVISIONS.

WELDING SHALL CONFORM TO THE CURRENT AWS D1.1 WELDING CODE. WELDING AND NONDESTRUCTIVE TESTING SYMBOLS SHALL CONFORM TO AWS 2.4 SYMBOLS FOR WELDING, BRAZING, AND NONDESTRUCTIVE EXAMINATION.

DESIGN LOADS

A. GRAVITY - SUPERIMPOSED DEAD LOADS (DL) IN ADDITION TO STRUCTURE DEAD LOADS AND EARTH LOADS: NONE.

B. GRAVITY - LIVE LOADS (LL)

SURCHARGE LIVE LOAD 145 PSF

CONSTRUCTION LIVE LOADS SHALL BE LIMITED TO 145 PSF OR LESS.

DESIGN RESPONSIBILITY

TIMMONS GROUP IS THE ENGINEER OF RECORD FOR THE STRUCTURAL AND GEOTECHNICAL DESIGN OF THE RETAINING WALLS ASSOCIATED WITH THE FOLLOWING DRAWINGS.

EXISTING CONDITIONS

THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN INFORMATION SHOWN ON THE PLANS TO THE ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL BE REQUIRED TO DOCUMENT EXISTING CONDITIONS BY SKETCHES OR OTHER METHODS.

DEPTHS AND LOCATIONS OF EXISTING STRUCTURES AND UTILITY LOCATIONS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF THE WORK. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE THAT EXISTING STRUCTURES AND UTILITIES ARE NOT DAMAGED AS PART OF THE WORK.

PROPOSED DIMENSIONS & ELEVATIONS

THE CONTRACTOR SHALL INDEPENDENTLY VERIFY ALL ELEVATIONS AND DIMENSIONS SHOWN ON THE DRAWINGS BEFORE FABRICATION AND CONSTRUCTION. IF FIELD CONDITIONS AND/OR DIMENSIONS DIFFER FROM THE PLANS, THE CONTRACTOR SHALL USE THE FIELD MEASUREMENTS AND MAKE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS WHEN SHOP DRAWINGS ARE SUBMITTED FOR APPROVAL BY THE ENGINEER. THE FIELD MEASUREMENTS SHALL BE INDICATED ON THE SUBMITTED SHOP DRAWINGS.

CONSTRUCTION METHODS

THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS TO ENSURE THE STABILITY AND SAFE PERFORMANCE OF ALL STRUCTURAL ELEMENTS DURING CONSTRUCTION.

TEMPORARY BRACING

CONTRACTOR IS RESPONSIBLE FOR BRACING, WITHOUT OVERSTRESSING, ALL STRUCTURAL ELEMENTS AS REQUIRED AT ALL STAGES OF CONSTRUCTION UNTIL COMPLETION OF THE PROJECT. PROVIDE TEMPORARY LATERAL SUPPORT FOR ALL PILES AND WALLS UNTIL PILES AND WALLS ARE ADEQUATELY BRACED BY PERMANENT STRUCTURAL MEANS.

GEOTECHNICAL INFORMATION

FACTORED BEARING RESISTANCE IS TAKEN AS 3000 PSF BASED ON THE AVAILABLE GEOTECHNICAL INFORMATION.

THE SITE SHALL BE PREPARED UNIFORM IN ACCORDANCE WITH CIVIL DRAWINGS, SPECIFICATIONS, AND THE DESIGN SOIL BEARING PRESSURE. A LICENSED GEOTECHNICAL ENGINEER SHALL VERIFY ALL ASSUMPTIONS AND REPORTS ANY VARIATIONS TO THE ENGINEER.

ALL EXCAVATIONS AND FOOTINGS SHALL BE INSPECTED BY A LICENSED GEOTECHNICAL ENGINEER TO VERIFY THE DESIGN ASSUMPTIONS AND REPORT ADVERSE CONDITIONS.

WHERE FILL IS REQUIRED, IT SHALL BE PLACED IN ACCORDANCE WITH INSTRUCTIONS OF A LICENSED GEOTECHNICAL ENGINEER TO MAINTAIN DESIGN BEARING PRESSURE.

SOIL BELOW THE FOOTINGS NOT MEETING THE DESIGN BEARING PRESSURE SHALL BE EXCAVATED TO A DEPTH OF VERIFIABLE DESIGN PRESSURE AND BACKFILLED WITH VDOT NO. 57 STONE TO THE LEVEL OF FOUNDATION BEARING. THIS SHALL BE APPROVED BY A LICENSED GEOTECHNICAL ENGINEER.

DO NOT BACKFILL AGAINST RETAINING WALLS UNTIL THE CONCRETE HAS REACHED THE REQUIRED 28-DAY COMPRESSIVE STRENGTH.

BACKFILL RETAINING WALLS WITH MAXIMUM 8" LIFTS MAINTAINING EQUAL HEIGHT EACH SIDE. BACKFILL SOILS SHALL BE PLACED BEHIND THE CAST-IN-PLACE CONCRETE RETAINING WALLS EXTENDING A MINIMUM OF ONE HALF OF THE WALL HEIGHT FROM THE BACK OF THE WALL AND SHALL CONSIST OF VDOT TYPE I GRANULAR MATERIALS. FINE-GRAINED SOILS, SUCH AS CLAYS AND SILTS SHALL NOT BE USED AS WALL BACKFILL. BACKFILL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE SOIL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) AND WITHIN 3 PERCENT POINTS OF OPTIMUM MOISTURE. THE VDOT TYPE I GRANULAR BACKFILL MATERIAL SHALL EXTEND AT LEAST ONE-HALF THE WALL HEIGHT FROM THE BACK OF THE RETAINING WALL.

USE HAND COMPACTION EQUIPMENT WITHIN FIVE FEET OF RETAINING WALLS.

REFER TO THE 30 JULY 2020 (REVISED 7 DECEMBER 2020) GEOTECHNICAL ENGINEERING REPORT TITLED "GEOTECHNICAL ENGINEERING REPORT BARRACKS ROAD AND EMMET STREET STREETSCAPE IMPROVEMENTS CITY OF CHARLOTTESVILLE, VIRGINIA" AND PREPARED FOR THE CITY OF CHARLOTTESVILLE BY TIMMONS GROUP FOR GEOTECHNICAL RECOMMENDATIONS AND REQUIREMENTS.

SOLDIER PILE AND TIMBER LAGGING INSTALLATION

THE CONTRACTOR SHALL INSTALL SOLDIER PILES USING DRILLED METHODS ONLY. DRIVEN SOLDIER PILES ARE NOT PERMITTED ON THE SITE UNLESS EXPLICITY APPROVED IN WRITING BY THE OWNER AND ENGINEER AFTER VIBRATION CONSIDERATIONS ARE MADE FOR THE EXISTING BUILDINGS AND UTILITIES ON THE SITE.

THE CONTRACTOR SHALL USE DRILLING SLURRY OR TEMPORARY CASING, AS NECESSARY, TO PREVENT THE DRILL HOLE FROM COLLAPSING DURING SOLDIER PILE INSTALLATION.

OVER-EXCAVATION REQUIRED TO PLACE THE TIMBER LAGGING BEHIND THE SOLDIER PILE FLANGES SHALL BE THE MINIMUM NECESSARY TO INSTALL THE LAGGING. ANY VOIDS PRODUCED BEHIND THE LAGGING SHALL BE FILLED WITH VDOT NO. 78 STONE.

CONSTRUCTION TOLERANCES:

THE SOLDIER PILES SHALL BE INSTALLED WITHIN THE EXCAVATION TO SATISFY THE FOLLOWING TOLERANCES:

A. THE CENTER OF THE SOLDIER PILE SHALL BE WITHIN 2 IN. OF PLAN LOCATION IN ANY DIRECTION AT THE TOP OF THE PILE.

B. THE OUT OF VERTICAL PLUMBNESS OF THE SOLDIER PILE SHALL NOT EXCEED 1/8 IN./FT.

C. THE TOP OF THE SOLDIER PILE SHALL BE WITHIN 2 IN. OF THE PLAN ELEVATION.

MATERIALS

A. REINFORCEMENT

REINFORCING STEEL BARS AND ALL SUPPORT DEVICES SHALL BE PLAIN BLACK BARS AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60. SUBMIT TO TIMMONS GROUP FOR APPROVAL, COMPLETE BENDING AND PLACING DETAILS OF ALL REINFORCEMENT, INDICATING POSITION OF SPLICES. INCLUDE ACCESSORY DRAWINGS. UNLESS OTHERWISE NOTED, CAST-IN-PLACE CONCRETE CLEAR COVER SHALL BE AS PROVIDED BY SECTION 5 OF VDOT IIM-S&B-80.6:

1. CAST AGAINST EARTH: 3"
2. PRINCIPAL REINFORCEMENT: 2.5"
3. STIRRUPS AND TIES: 2"

B. CONCRETE (VDOT A4)

1. 28-DAY STRENGTH: 4,000 PSI
2. DENSITY: NORMAL WEIGHT
3. W/C (MAX): 0.45
4. AIR CONTENT: 6.5% +/- 1.5
5. NOMINAL MAX. AGGREGATE SIZE: 3/4 IN.

NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.

AT LOCATIONS OF NEW CONCRETE PLACED AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SHALL BE ROUGHENED TO A 3/16" AMPLITUDE PRIOR TO APPLYING THE BONDING AGENT AND SUBSEQUENTLY THE NEW CONCRETE.

EXPOSED CONCRETE SURFACES SHALL RECEIVE STAMPED FORMWORK AS APPROVED BY THE OWNER AND THE ENGINEER. IF FORM RELEASE AGENT IS USED, FORM RELEASE AGENT SHALL NOT STAIN OR ADVERSELY AFFECT CONCRETE SURFACES THAT WILL PREVENT THE APPROVED FINISH.

C. STRUCTURAL STEEL

SHALL MEET THE FOLLOWING REQUIREMENTS:

1. HP-SHAPES: ASTM A709, GRADE 36 OR BETTER
2. SHEAR STUDS: AWS D1.1

D. ROUGH SAWN TIMBER

SHALL CONFORM TO AASHTO M168 AND BE DOUGLAS FIR-LARCH, GRADE #2 OR BETTER.

E. CONCRETE BONDING AGENT

SHALL BE A CEMENTITIOUS EPOXY RESIN AND CONFORM TO SECTION 243 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.

F. EXPANSION JOINT FILLER MATERIAL

SHALL BE PREFORMED AND SHALL MEET THE REQUIREMENTS OF AASHTO M213.

SUBMIT ONE OF THE FOLLOWING PRODUCTS (OR APPROVED EQUAL) FOR ENGINEER'S APPROVAL AND INSTALL PER THE MANUFACTURER'S INSTALLATION REQUIREMENTS:

1. RIGHT JOINT FIBRE EXPANSION JOINT BY RIGHT POINTE, LLC., DEKALB, IL
2. FIBRE EXPANSION JOINT BY W.R. MEADOWS, INC., HAMPSHIRE, IL

G. EXPANSION JOINT SEALANT MATERIAL

SHALL BE HOT APPLIED, SINGLE COMPONENT JOINT SEALANT AND CONFORM TO SECTION 212.02(A) OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS - ASTM D6990, TYPE II. THE EXPANSION JOINT SEALANT MATERIAL SHALL BE APPLIED DIRECTLY OVER THE EXPANSION JOINT FILLER MATERIAL. USE THE SAME MANUFACTURER FOR THE EXPANSION JOINT FILLER MATERIAL AND EXPANSION JOINT SEALANT MATERIAL. COLOR SHALL BE APPROVED BY THE OWNER PRIOR TO INSTALLATION.

H. GEOTEXTILE DRAINAGE FABRIC

SHALL BE A NONWOVEN AND CLOG RESISTANT POLYPROPYLENE MATERIAL, SUITABLE FOR SUBSURFACE APPLICATION, AND THERMALLY AND BIOLOGICALLY STABLE GEOTEXTILE DRAINAGE FABRIC SHALL CONFORM TO SECTION 245.03(C) OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.

IN ADDITION, THE GEOTEXTILE SHALL COMPLY WITH THE REQUIREMENTS OF AASHTO M288 TABLE 1-GEOTEXTILE STRENGTH PROPERTY REQUIREMENTS, CLASS 3, FOR GRAB STRENGTH.

I. DRAIN PIPE

SHALL BE CORRUGATED, NON-PERFORATED POLYETHYLENE PIPE AND CONFORM TO SECTION 232.02(I) OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.

J. RECESSED LIGHTING

SHALL BE HORIZONTAL MOUNTED P6827 LED STEP LIGHT BY PROGRESS LIGHTING, WITH VANDAL-PROOF COVERS, AND SHALL BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS AND THE CITY OF CHARLOTTESVILLE STANDARDS.

K. CONCRETE FORMLINER

SHALL BE PER THE CITY OF CHARLOTTESVILLE'S REQUIREMENTS.

L. MOCKUP

CONTRACTOR SHALL PROVIDE A 5 FT BY 5 FT (MINIMUM) MOCKUP OF THE CONCRETE FORMLINER AND STAINING/PAINTING FOR REVIEW AND APPROVAL BY THE CITY OF CHARLOTTESVILLE PRIOR TO THE START OF THE WORK.

SEQUENCE OF CONSTRUCTION

A. DRILL THE HOLES FOR SOLDIER PILES UTILIZING TEMPORARY CASING OR DRILLING SLURRY, AS NECESSARY.

B. INSTALL STEEL SOLDIER PILES INTO THE DRILLED HOLES.

C. INSTALL CONCRETE IN THE DRILLED HOLES TO THE ELEVATIONS SHOWN ON THE PLANS.

D. INSTALL TIMBER LAGGING PANELS ONCE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF 3,000 PSI.

E. INSTALL GEOTEXTILE FABRIC ALONG THE FACE OF EXCAVATION BEHIND THE LAGGING PANELS.

F. FILL THE VOID SPACE BETWEEN THE BACK SIDES OF THE LAGGING PANELS AND EXCAVATION WITH VDOT NO. 57 STONE.

G. INSTALL CONCRETE CAP AND CONCRETE FACING ALONG THE TOPS OF THE SOLDIER PILES.

H. INSTALL CONCRETE CANTILEVER RETAINING WALLS.

SUBMITTALS

CONTRACTOR SHALL PROVIDE THE FOLLOWING PRIOR TO FABRICATION AND INSTALLATION FOR THE ENGINEER'S APPROVAL:

A. PRODUCT DATA SHEETS FOR EACH MATERIAL TO BE INSTALLED.

B. CONCRETE MIX DESIGN FOR CAST-IN-PLACE CONCRETE FACING.

C. MATERIAL AND MILL CERTIFICATIONS.

D. SHOP DRAWINGS

E. DETAILED SEQUENCE OF CONSTRUCTION.

F. FORMLINER SUBMITTAL.

STATEMENT OF SPECIAL INSPECTIONS

CONSTRUCTION SHALL CONFORM TO THE VDOT ROAD AND BRIDGE SPECIFICATIONS, DATED 2020. INSPECTIONS SHALL BE PERFORMED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT), OR A VDOT QUALIFIED CONSULTANT.

REFERENCE THE STATEMENT OF SPECIAL INSPECTIONS CHECKLIST FOR REQUIRED INSPECTIONS DURING THE WORK. INSPECTIONS INCLUDE SOILS, CONCRETE, AND STRUCTURAL STEEL. THE CONTRACTOR SHALL COORDINATE WITH THE INSPECTOR TO MEET THE SPECIAL INSPECTION REQUIREMENTS.

ABBREVIATIONS AND NOTATIONS:

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS
ACI	AMERICAN CONCRETE INSTITUTE
APPROX.	APPROXIMATELY
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWS	AMERICAN WELDING SOCIETY
B	BOTTOM
℄	BASELINE
BTWN	BETWEEN
CIP	CAST-IN-PLACE
CLR	CLEAR CONCRETE COVER
℄	CENTERLINE
CONT.	CONTINUOUS
DIA. OR Ø	DIAMETER
DL	DEAD LOAD
E.F.	EACH FACE
EL. OR ELEV.	ELEVATION
EQ.	EQUAL
EXP.	EXPANSION
E.W.	EACH WAY
HORIZ.	HORIZONTAL
IBC	INTERNATIONAL BUILDING CODE
JT	JOINT
LL	LIVE LOAD
MAX.	MAXIMUM
MIN.	MINIMUM
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.C.	ON-CENTER
PCF	POUNDS PER CUBIC FOOT
PP	POLYPROPYLENE
PSF	POUNDS PER SQUARE FOOT
PVC	POLYVINYL CHLORIDE
VDOT	VIRGINIA DEPARTMENT OF TRANSPORTATION

60% PLANS

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07/21/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
02/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE: 02/12/2021
DRAWN BY: GJK
DESIGNED BY: GJK
CHECKED BY: RSC
SCALE: N/A

TIMMONS GROUP

BARRACKS RD & EMMET RD IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
STRUCTURAL NOTES

JOB NO. 43569
SHEET NO. S1.0

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Project #: NHPP-5104(275)
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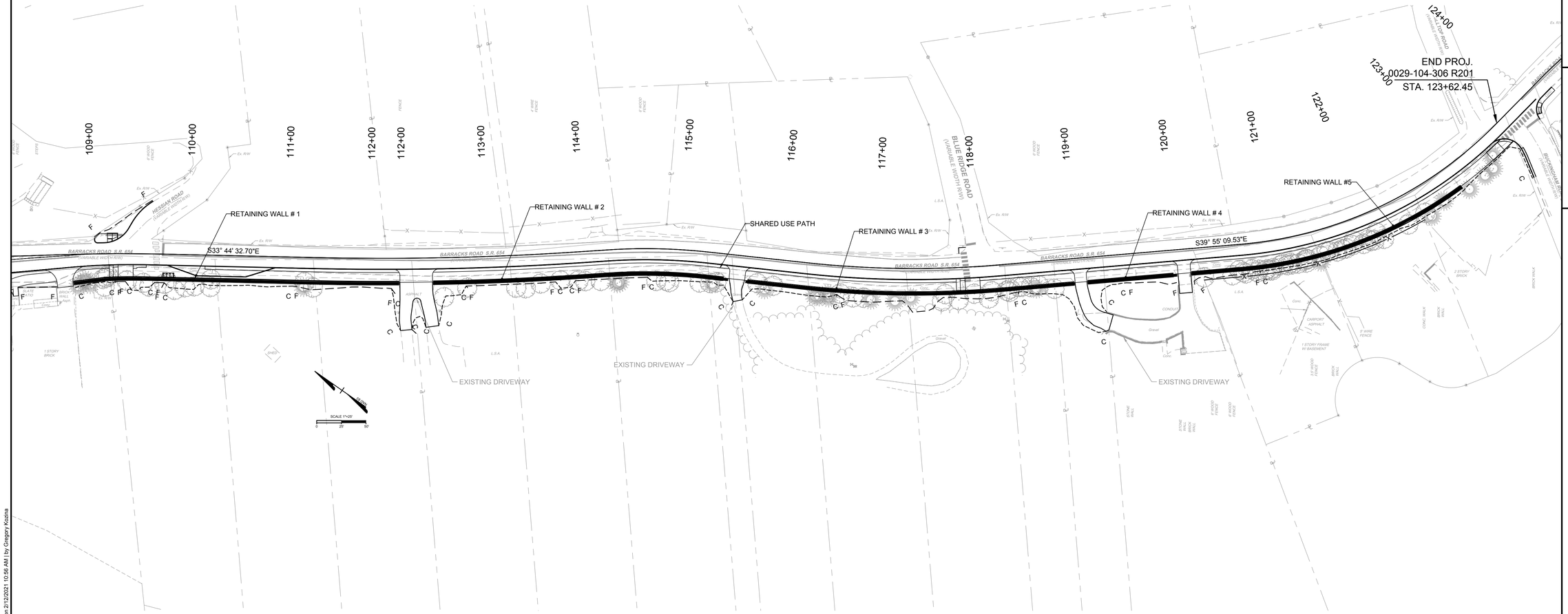

1 PLAN - RETAINING WALL LOCATIONS

SCALE: 1"= 50'-0"

60% PLANS

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DATE: 02/12/2021
DRAWN BY: GJK
DESIGNED BY: GJK
CHECKED BY: RSC
SCALE: AS NOTED

TIMMONS GROUP

BARRACKS RD & EMMET RD IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

RETAINING WALL LOCATIONS

JOB NO. 43569
SHEET NO. S2.0

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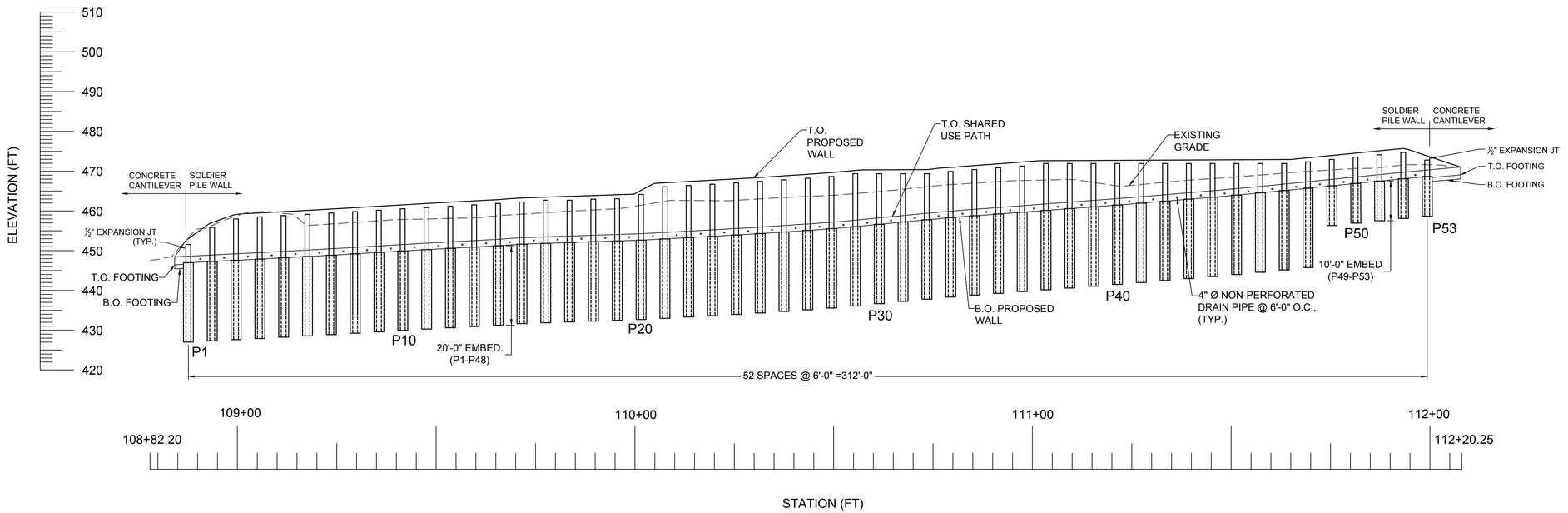
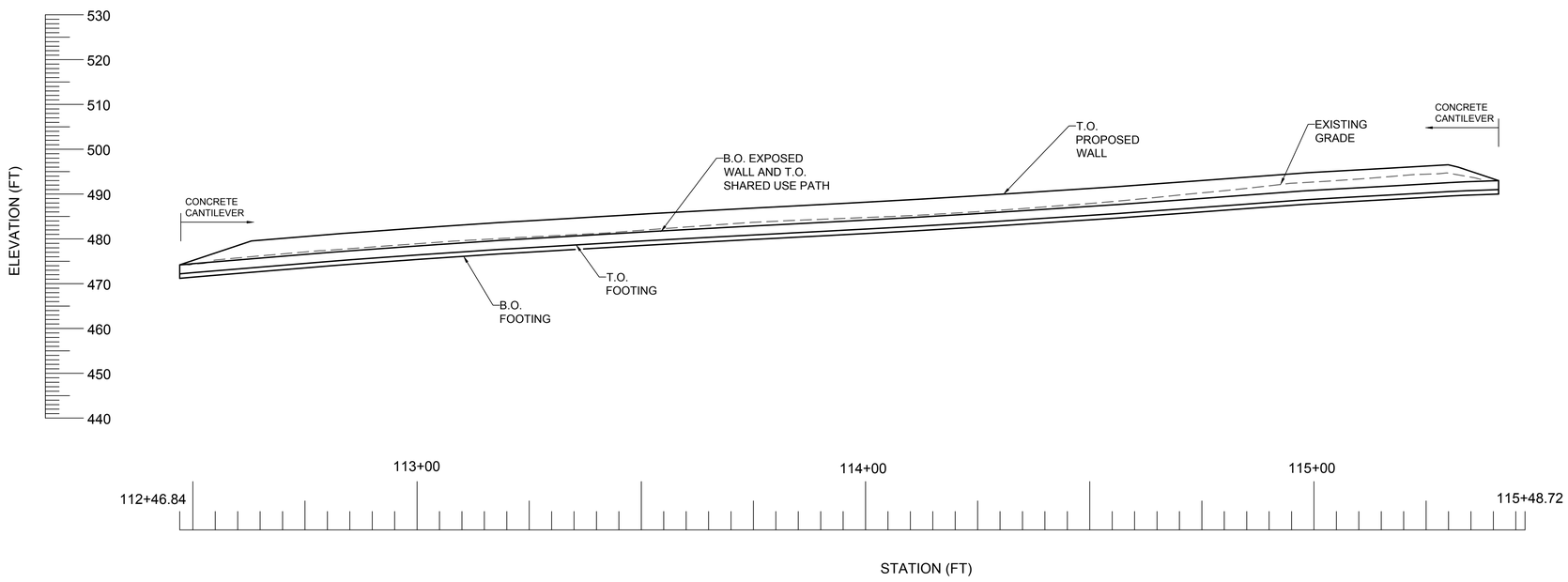


1 ELEVATION - RETAINING WALL 1

SCALE: 1"= 15'-0"



2 ELEVATION - RETAINING WALL 2

SCALE: 1"= 15'-0"

60% PLANS

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02/12/2021	60% PH PLANS – REVISED PER CITY AND VDOT COMMENTS

DATE: 02/12/2021
DRAWN BY: GJK
DESIGNED BY: GJK
CHECKED BY: RSC
SCALE: AS NOTED

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BARRACKS RD & EMMET RD IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

RETAINING WALL ELEVATIONS

JOB NO. 43569

SHEET NO. S3.0

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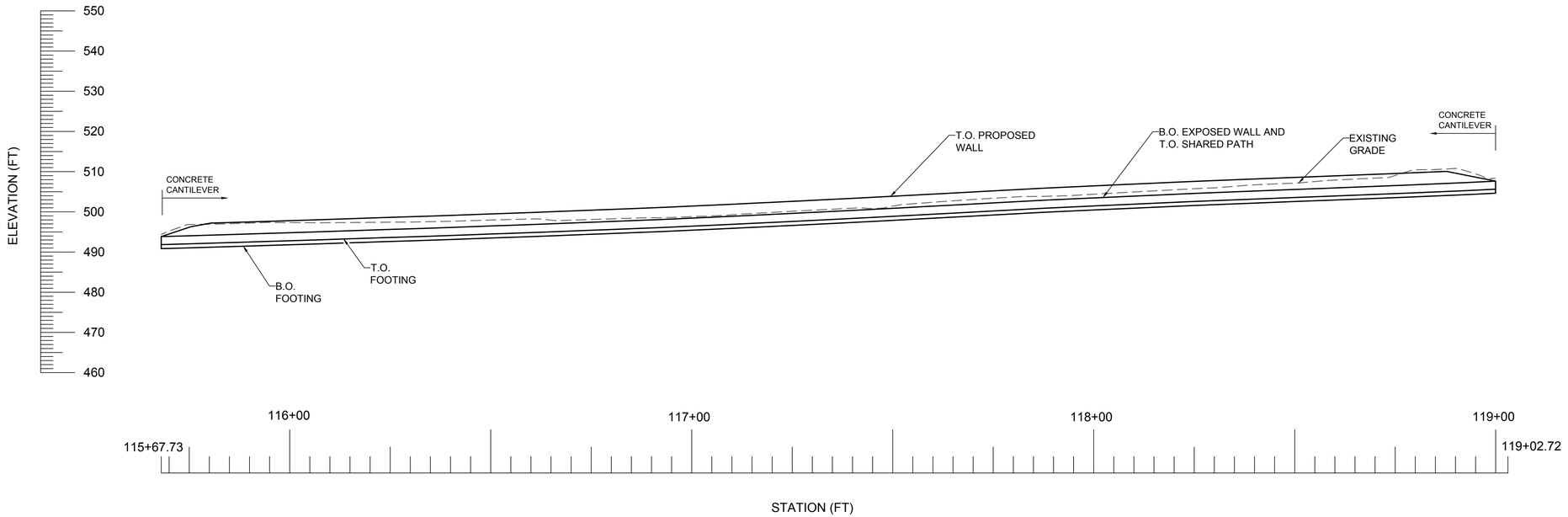
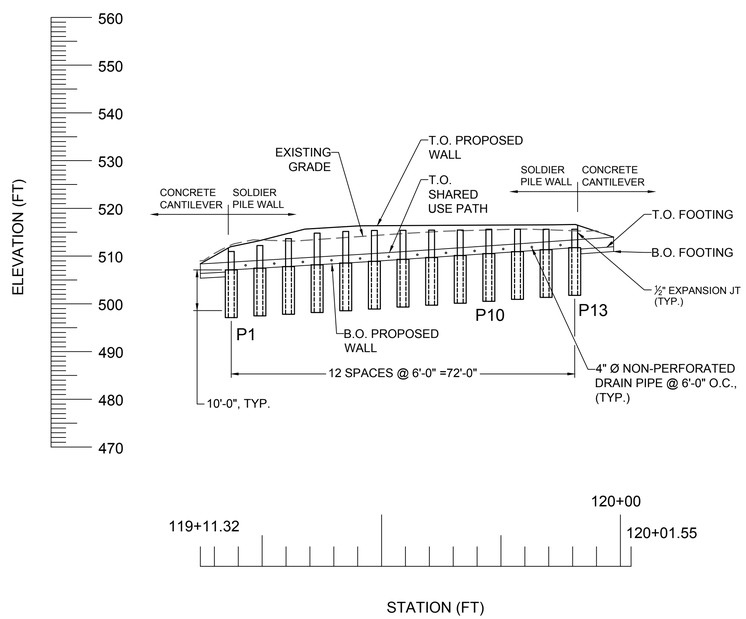
Project #: NHPP-5104(275)
UPC: 111796



1 ELEVATION - RETAINING WALL 3

SCALE: 1"= 15'-0"



2 ELEVATION - RETAINING WALL 4

SCALE: 1"= 15'-0"

60% PLANS

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02/12/2021	60% PH PLANS – REVISED PER CITY AND VDOT COMMENTS

DATE: 02/12/2021
DRAWN BY: GJK
DESIGNED BY: GJK
CHECKED BY: RSC
SCALE: AS NOTED

TIMMONS GROUP

BARRACKS RD & EMMET RD IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

RETAINING WALL ELEVATIONS

JOB NO. 43569

SHEET NO. S3.1

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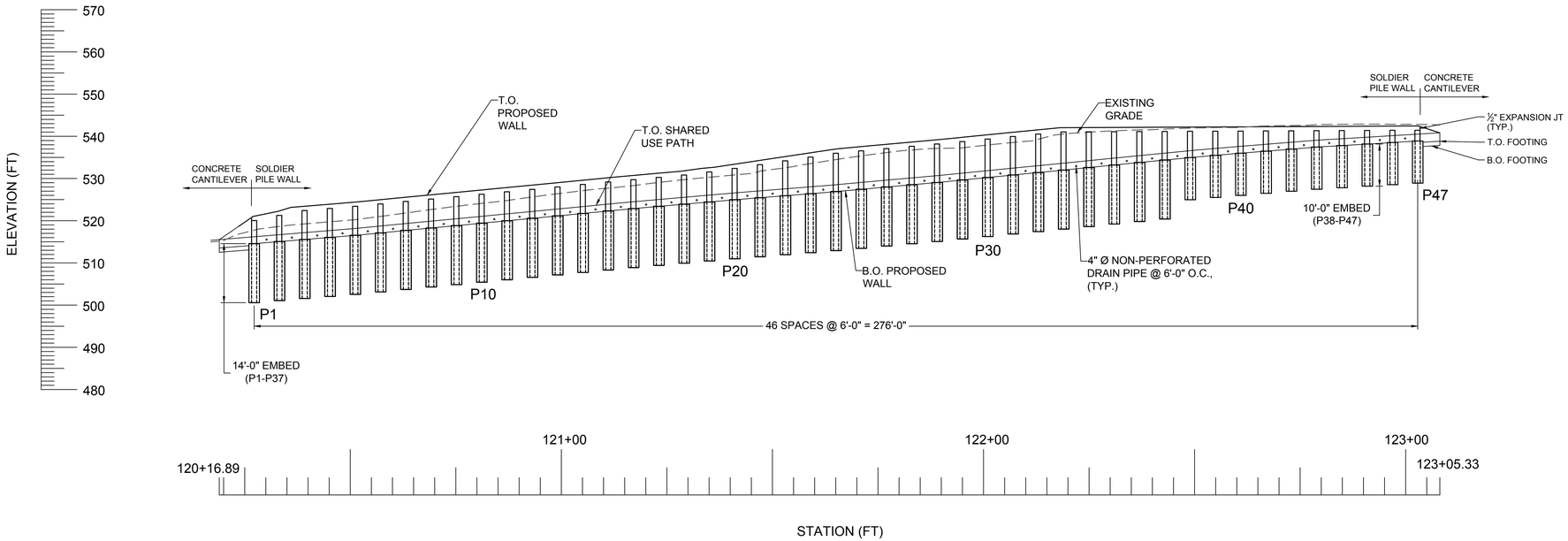

1 ELEVATION - RETAINING WALL 5

SCALE: 1"= 15'-0"

60% PLANS

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DATE: *02/12/2021*
DRAWN BY: *GJK*
DESIGNED BY: *GJK*
CHECKED BY: *RSC*
SCALE: *AS NOTED*

TIMMONS GROUP

BARRACKS RD & EMMET RD IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

RETAINING WALL ELEVATIONS

JOB NO. *43569*
SHEET NO. *S3.2*

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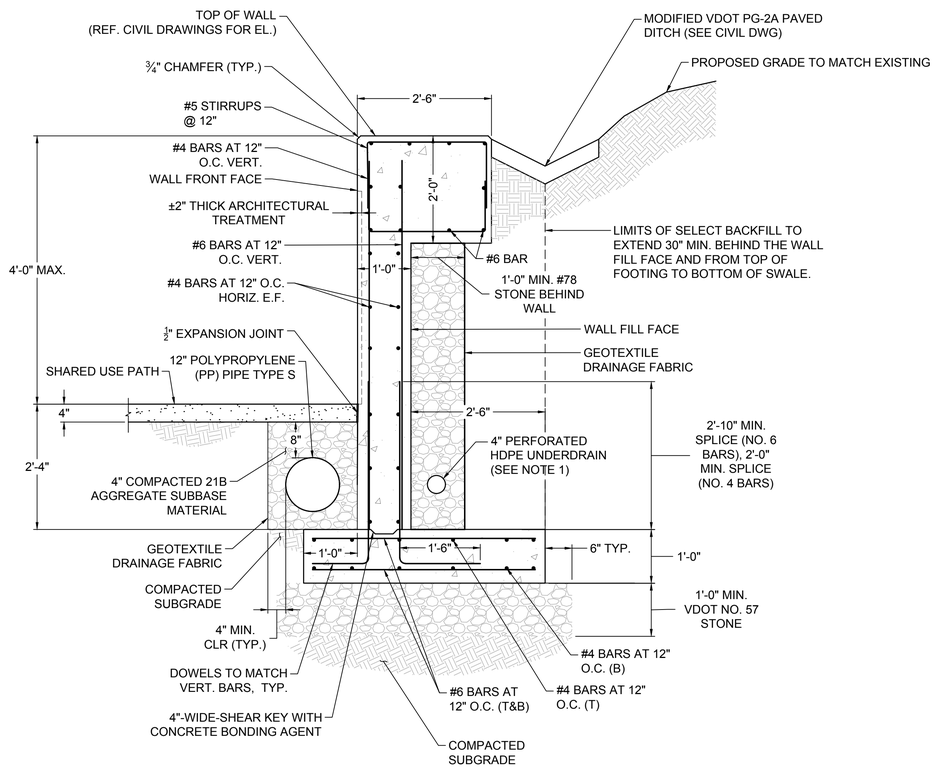
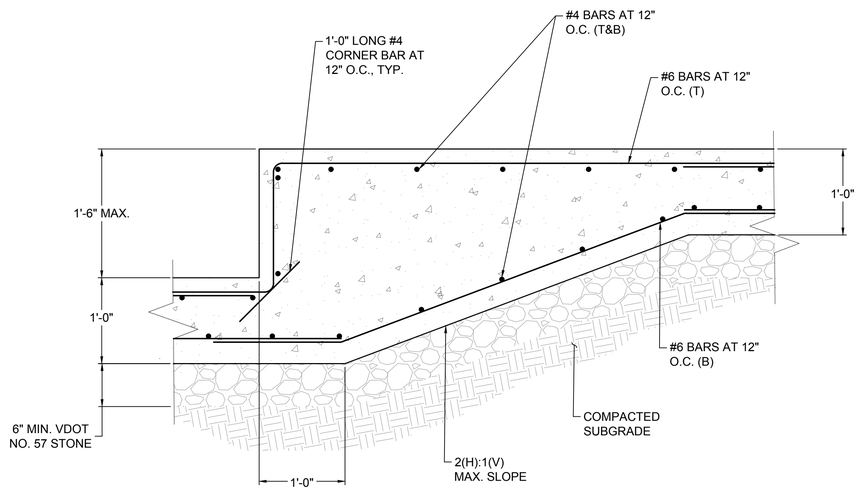
UPC: 111796



1 SECTION - CANTILEVER RETAINING WALL

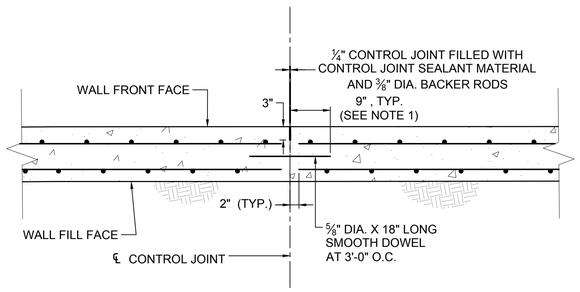
SCALE: 3/4" = 1'-0"

NOTE:
1. SEE CIVIL DRAWINGS FOR ADDITIONAL DRAINAGE DETAILS NOT SHOWN INCLUDING DAYLIGHTING AND CONNECTION REQUIREMENTS.



2 SECTION - TYPICAL STEP FOOTING

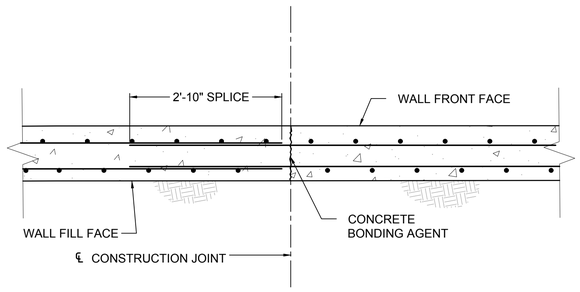
SCALE: 1" = 10'-0"



NOTE:
1. GREASE ONE 9" LONG SIDE OF EACH SMOOTH DOWEL AT CONTROL JOINTS.
2. MAXIMUM CONTROL JOINT SPACING SHALL BE 20 FT O.C.
3. PLACE SMOOTH DOWELS WITHIN 1 FT OF THE TOP OF THE RETAINING WALLS AND AT 3 FT O.C. ALONG THE RETAINING WALL HEIGHT. PROVIDE MINIMUM TWO BARS IN VERTICAL WALLS.

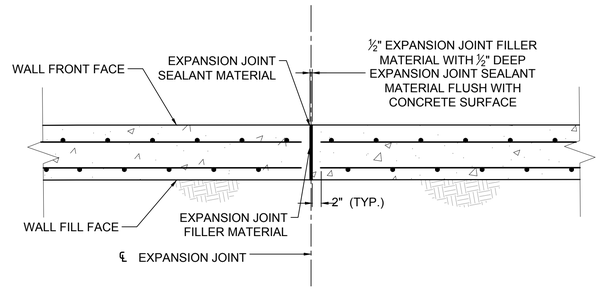
3 SECTION - VERTICAL CONTROL JOINT

SCALE: 3/4" = 1'-0"



4 SECTION - VERTICAL CONSTRUCTION JOINT

SCALE: 3/4" = 1'-0"



NOTE:
1. MAXIMUM EXPANSION JOINT SPACING SHALL BE 60 FT O.C.

5 SECTION - VERTICAL EXPANSION JOINT

SCALE: 3/4" = 1'-0"

60% PLANS

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02/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
06/18/2021	REVISED LIGHTING DETAILS AND FORMLINER PLACEMENT

DATE: *06/18/2021*
DRAWN BY: *GJK*
DESIGNED BY: *GJK*
CHECKED BY: *JAJ*
SCALE: *AS NOTED*

TIMMONS GROUP

BARRACKS RD & EMMET RD IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

CANTILEVER RETAINING WALL DETAILS

JOB NO. *43569*
SHEET NO. *S4.0*

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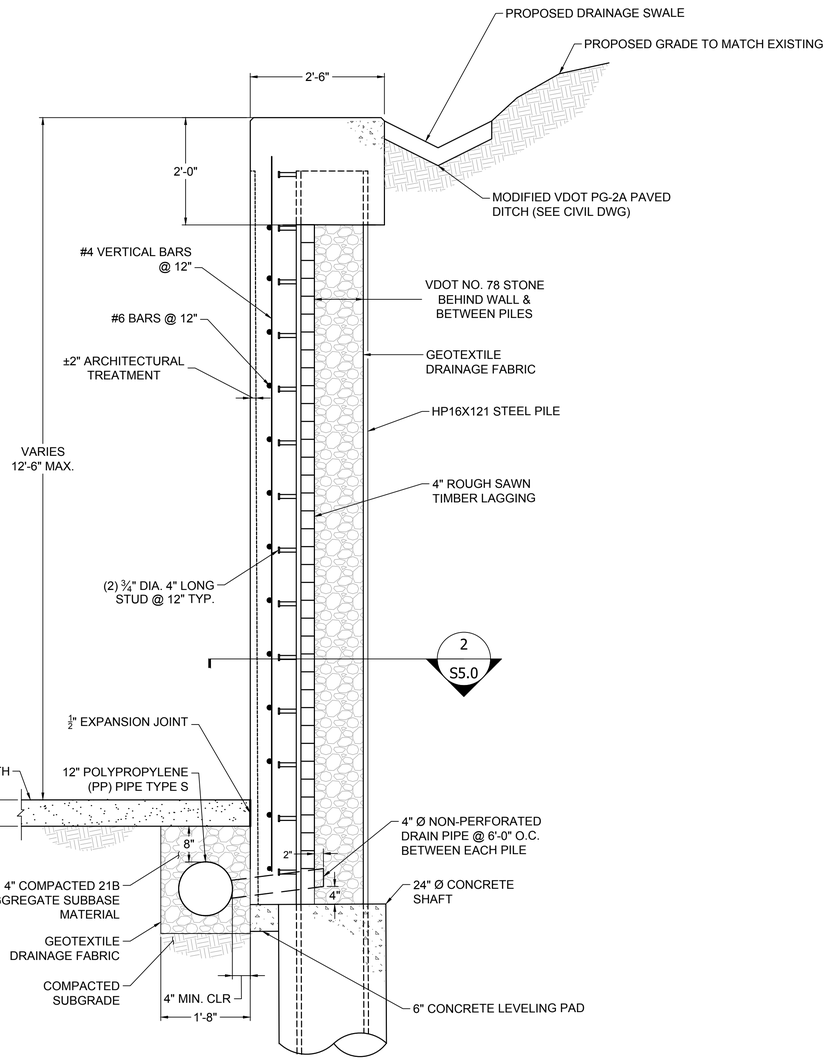
Project #: NHPP-5104(275)
UPC: 111796



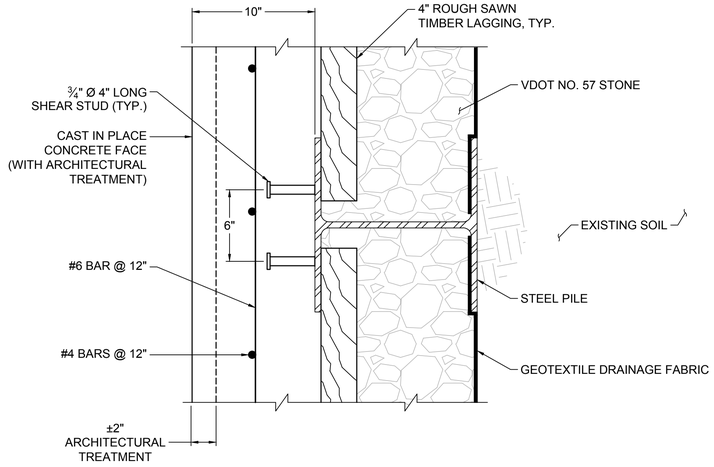
NOTES:

1. SEE CIVIL DRAWINGS FOR INFORMATION NOT SHOWN.
2. WRAP RECEIVING END OF 4" DIA. NON-PERFORATED DRAIN PIPE IN GEOTEXTILE FABRIC.

1 SECTION - SOLDIER PILE WALL

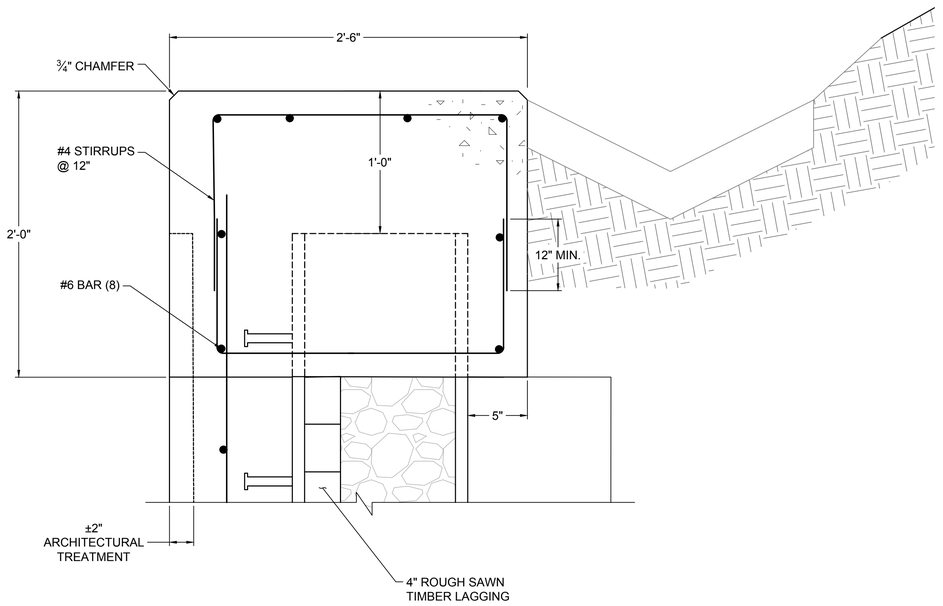
SCALE: 3/4" = 1'-0"

NOTE:
1. SEE CIVIL DRAWINGS FOR ADDITIONAL DRAINAGE DETAILS NOT SHOWN INCLUDING DAYLIGHTING AND CONNECTION REQUIREMENTS.



2 PLAN - SOLDIER PILE WALL

SCALE: 2" = 1'-0"



3 DETAIL- PILE CAP

SCALE: 2" = 1'-0"

60% PLANS

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06/18/2021	REVISED LIGHTING DETAILS AND FORMLINER PLACEMENT

DATE: 06/18/2021
DRAWN BY: GJK
DESIGNED BY: GJK
CHECKED BY: JAJ
SCALE: AS NOTED

TIMMONS GROUP

BARRACKS RD & EMMET RD IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
SOLDIER PILE WALL DETAILS

JOB NO. 43569
SHEET NO. S5.0

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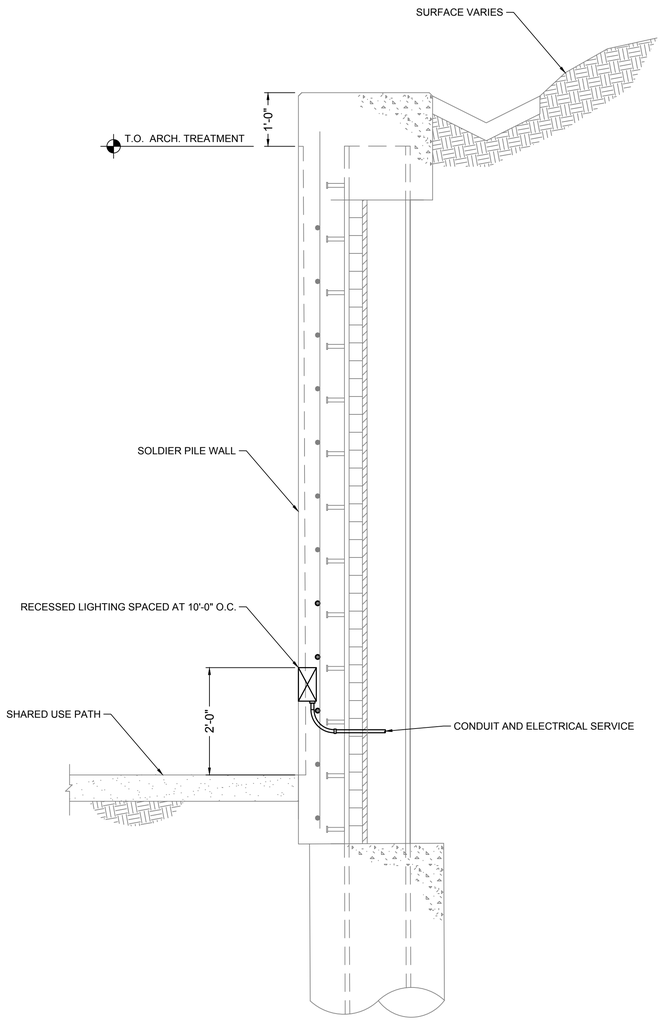
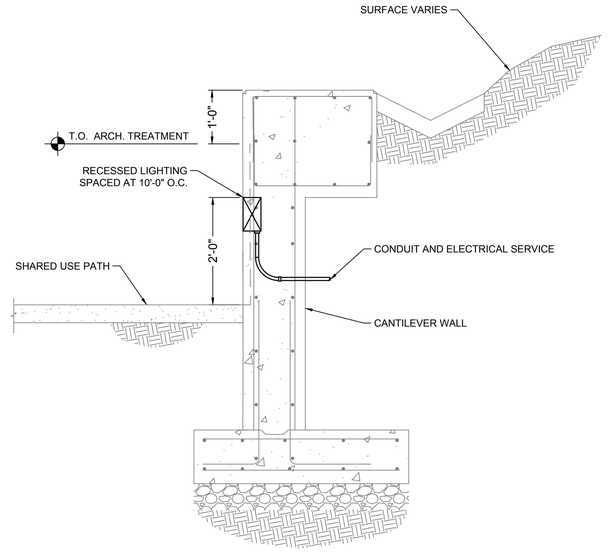
UPC: 111796



1 SECTION - SOLDIER PILE WALL

SCALE: 3/4" = 1'-0"



2 SECTION - CANTILEVER WALL

SCALE: 3/4" = 1'-0"

60% PLANS

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DATE: 06/18/2021
DRAWN BY: GJK
DESIGNED BY: GJK
CHECKED BY: JAJ
SCALE: AS NOTED

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BARRACKS RD & EMMET RD IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

LIGHTTING DETAILS

JOB NO. 43569

SHEET NO. S6.0

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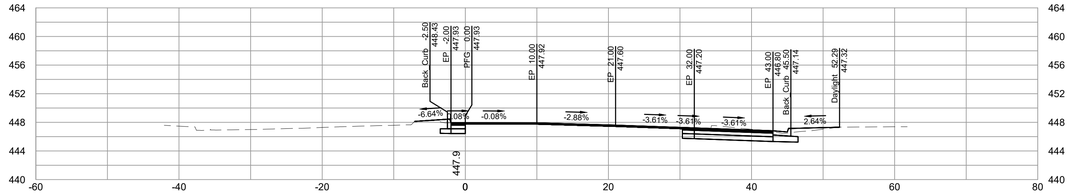
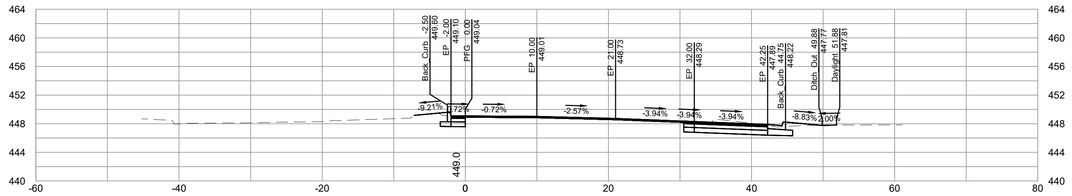
UPC: 111796

202+00



201+75



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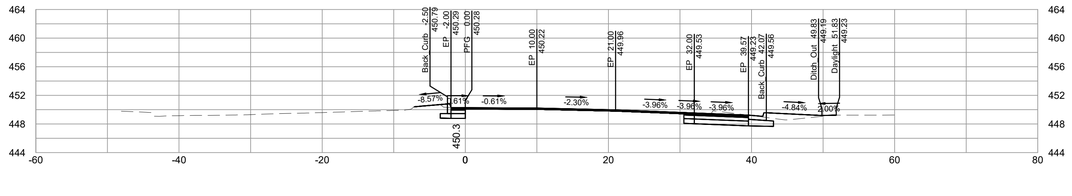

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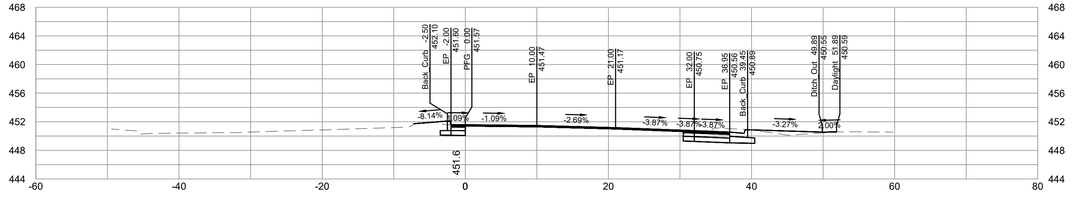
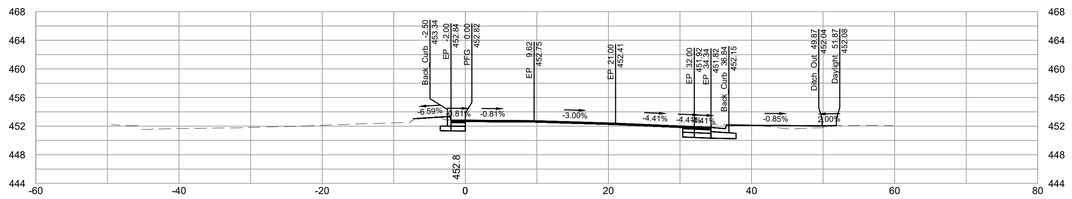


201+00



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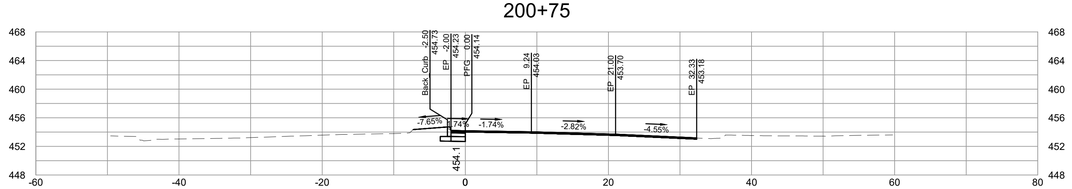

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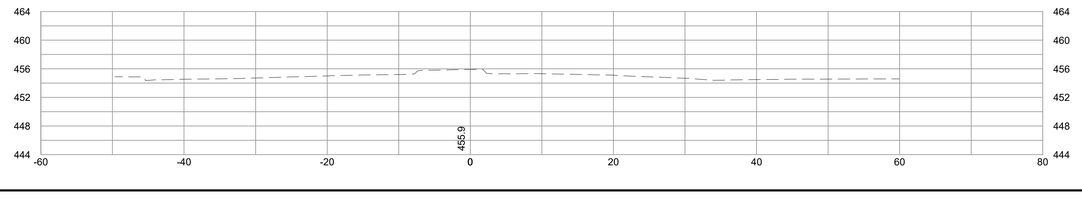

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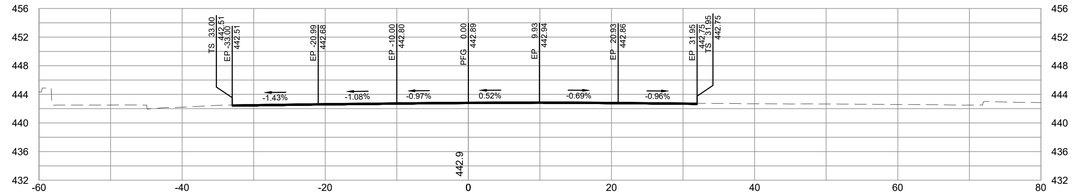

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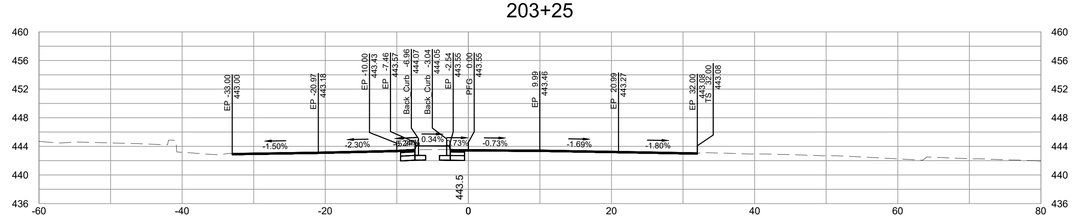

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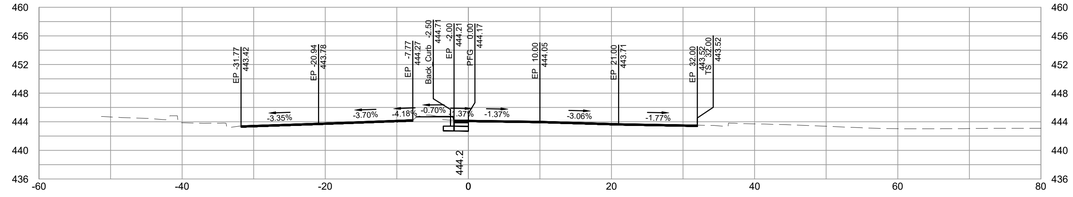

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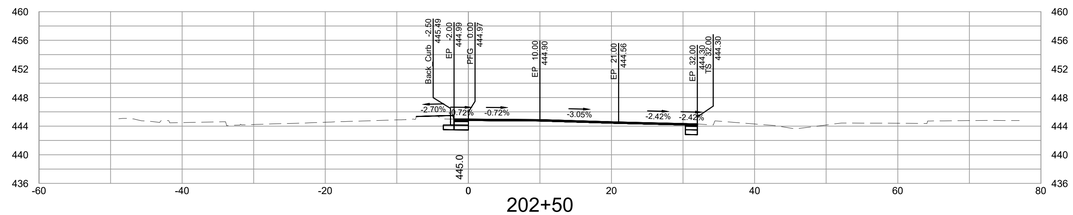

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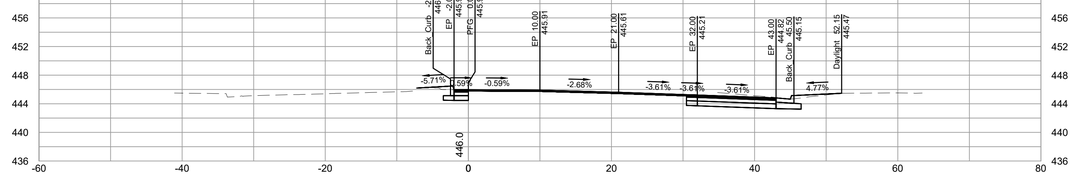

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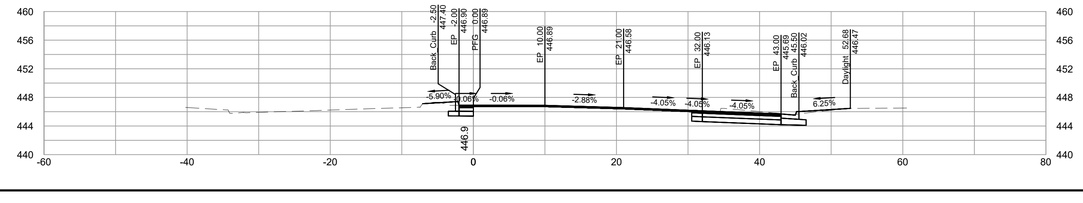

60% PLANS

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7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=10'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
EMMET STREET CROSS SECTIONS

JOB NO. 43569
SHEET NO. XS01

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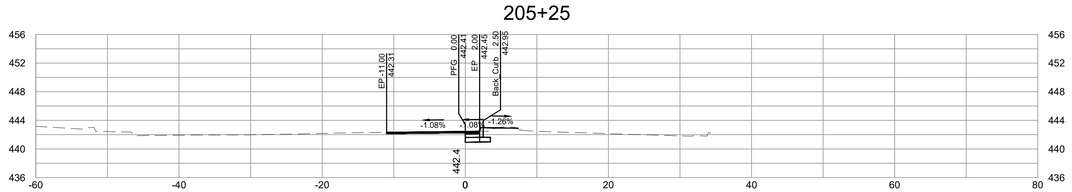
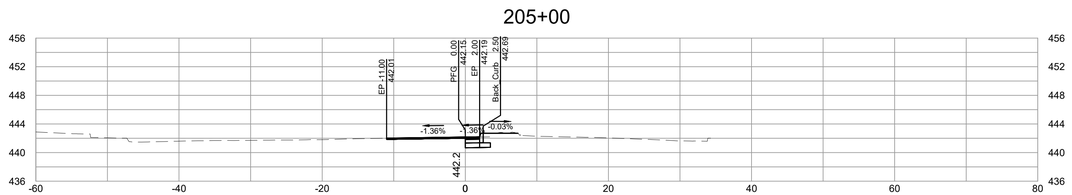
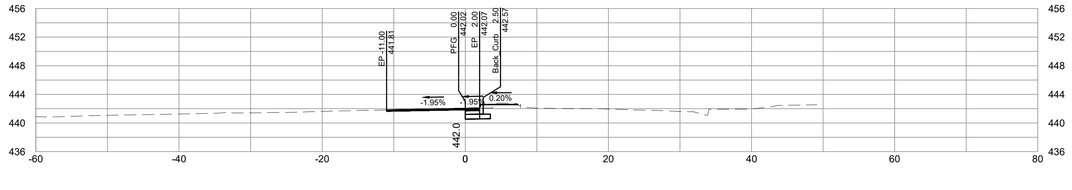
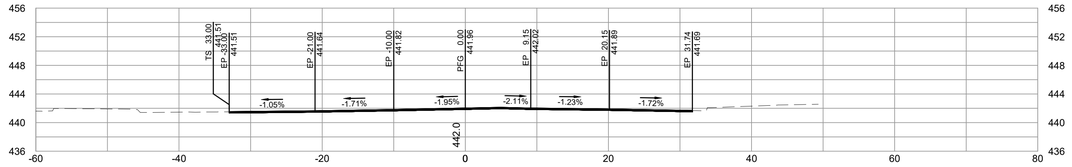
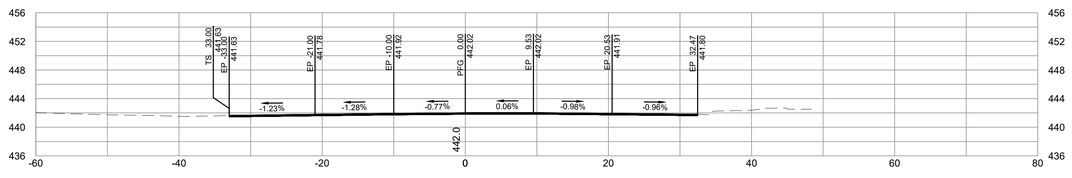
Project #: NHPP-5104(275)
UPC: 111796

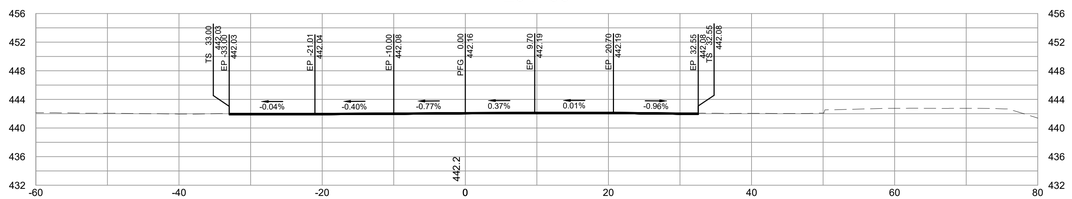


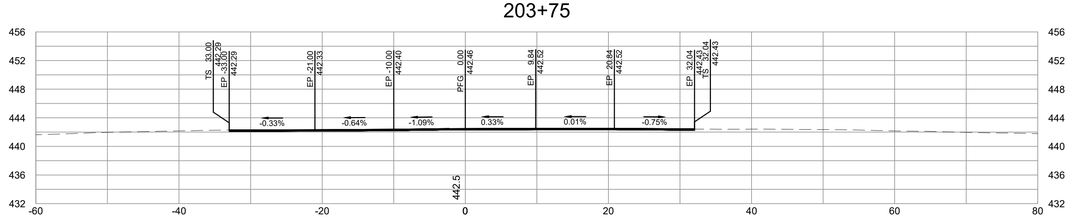


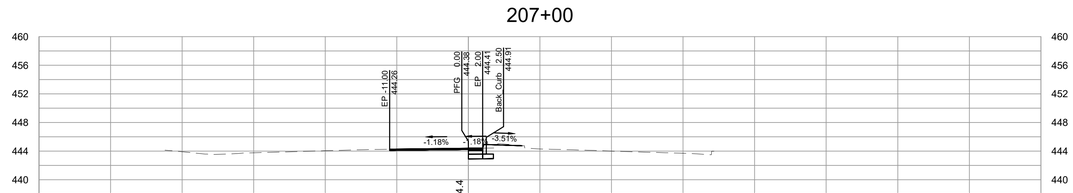


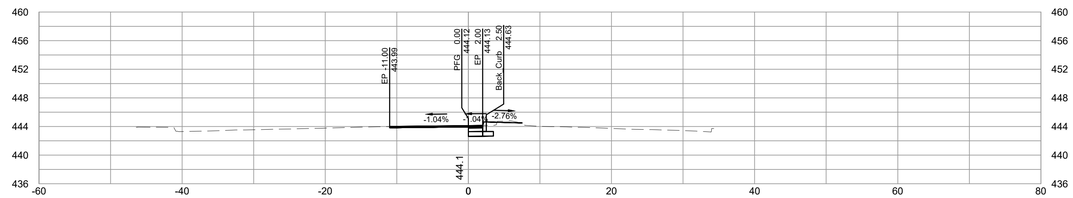


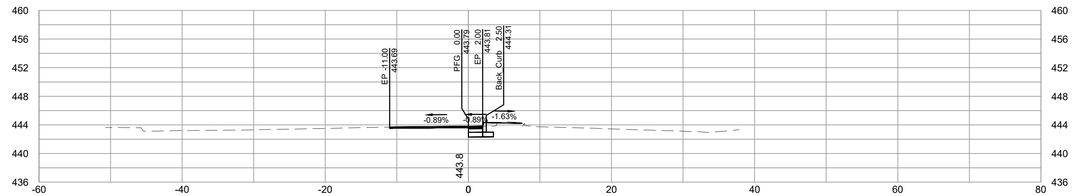


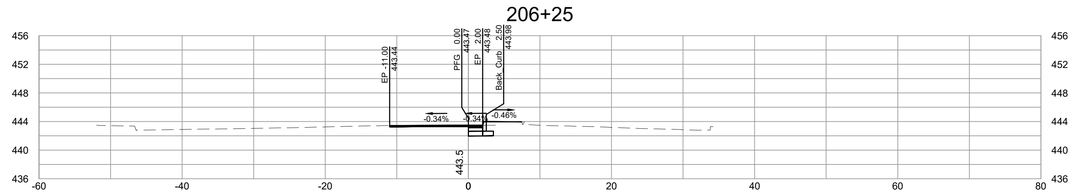


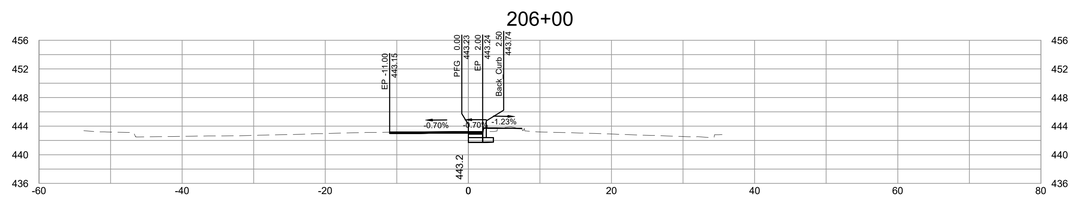


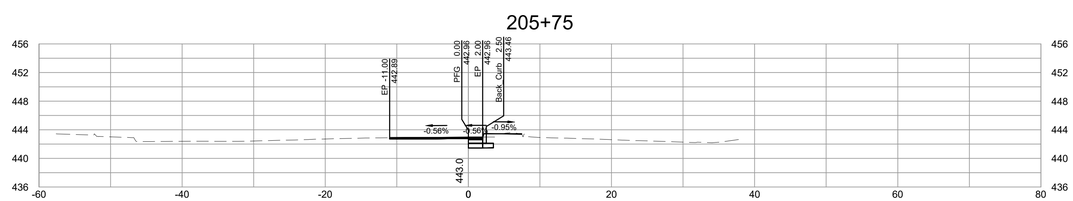


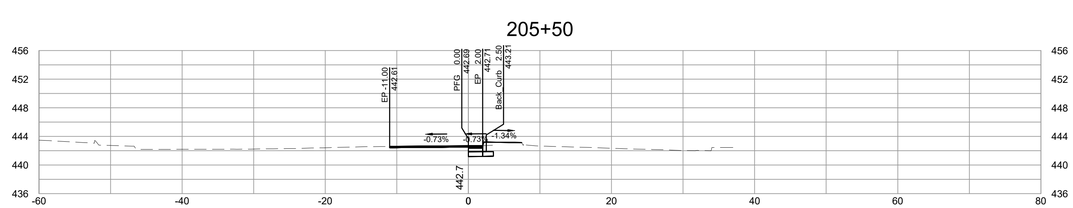












60% PLANS

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DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=10'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
EMMET STREET CROSS SECTIONS

JOB NO. 43569
SHEET NO. XS02

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DATE: 06/18/2021
DRAWN BY: KJH
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CHECKED BY: BTC
SCALE: 1"=10'

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EMMET STREET CROSS SECTIONS

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Project #: NHPP-5104(275)
UPC: 111796

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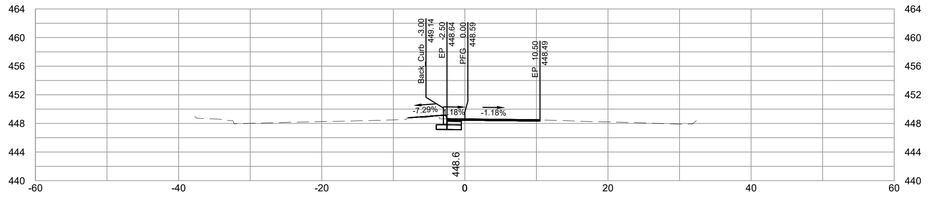

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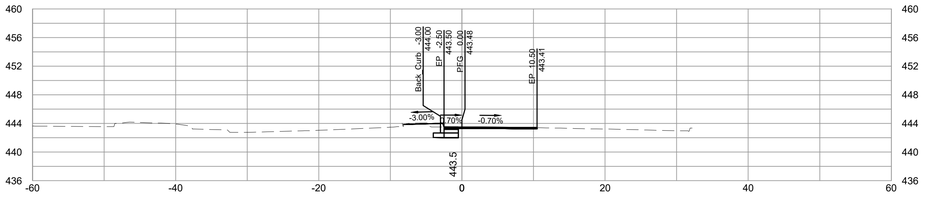

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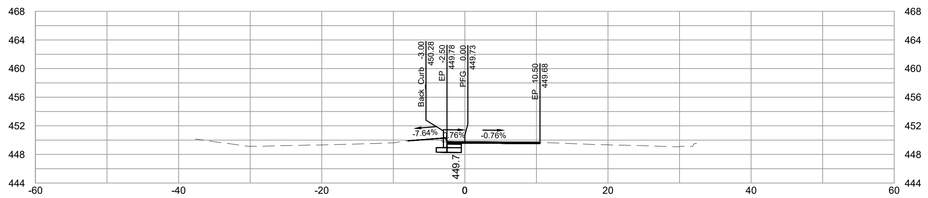

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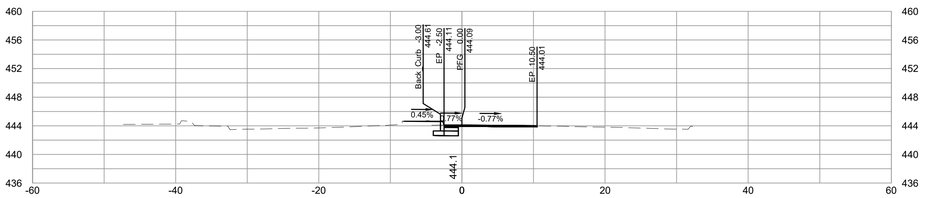

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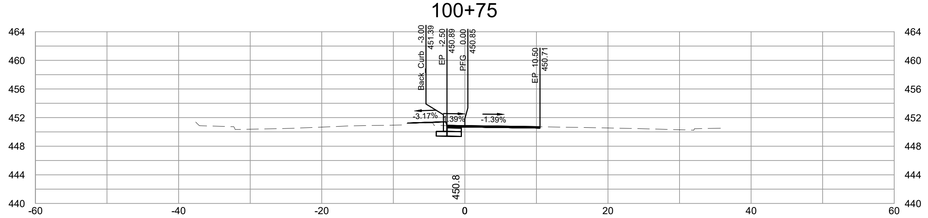

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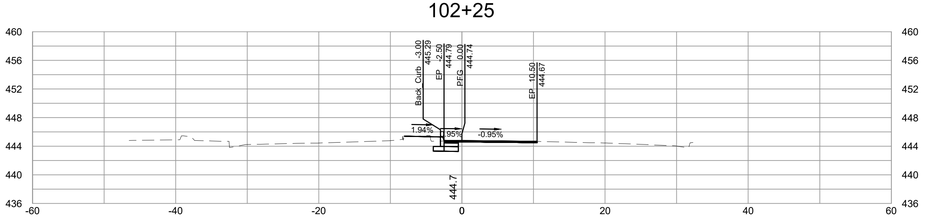

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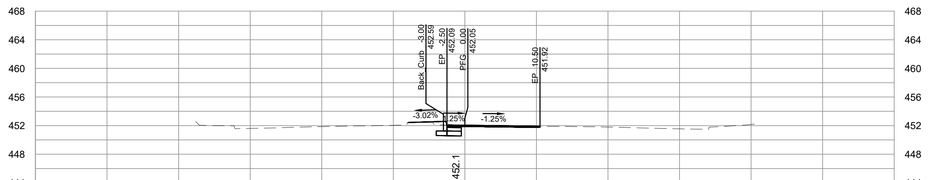

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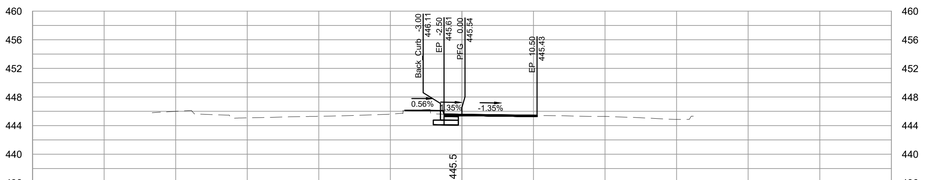

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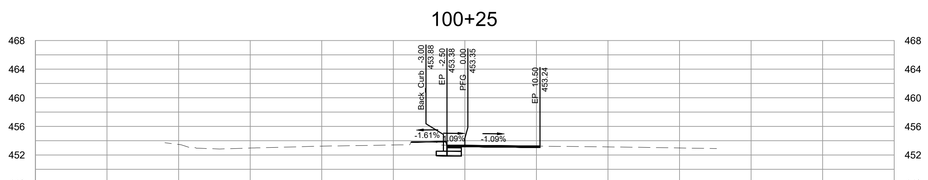

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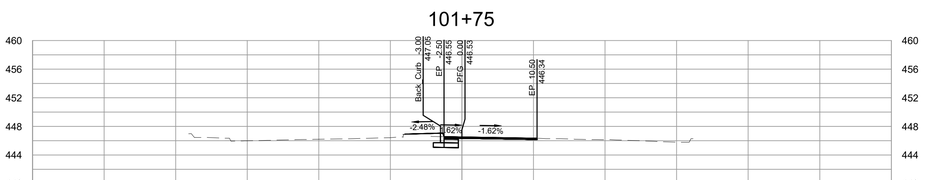

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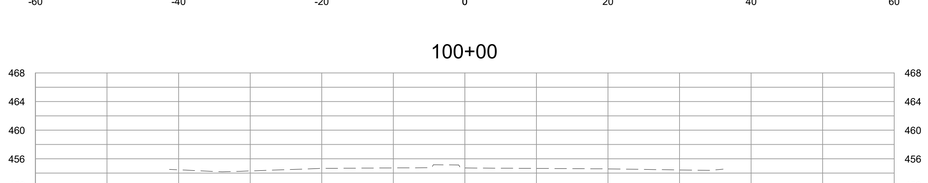

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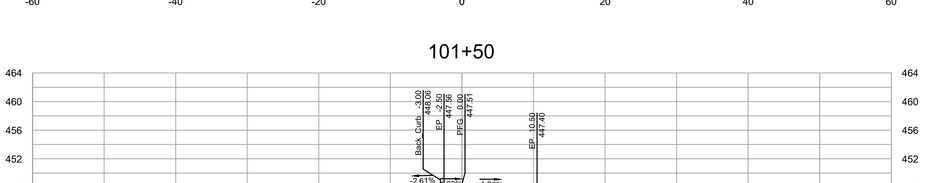

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DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=10'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
BARRACKS ROAD WEST CROSS SECTIONS

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SHEET NO. XS04

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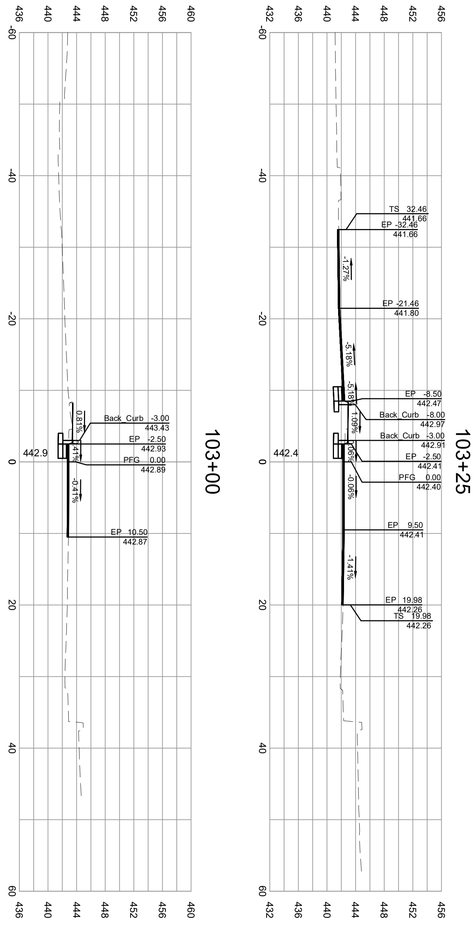

Project #: NHPP-5104(275)
UPC: 111796

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DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=10'
DATE: 06/18/2021

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

BARRACKS ROAD WEST CROSS SECTIONS

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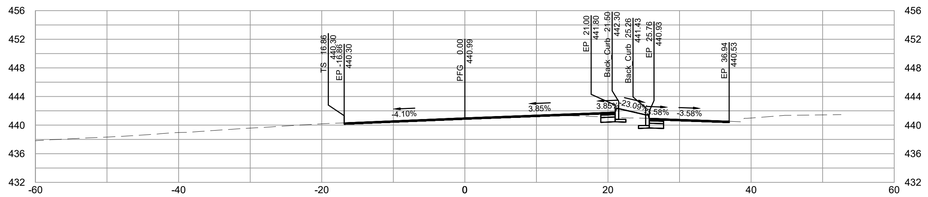
Project #: NHPP-5104(275)
UPC: 111796

106+00



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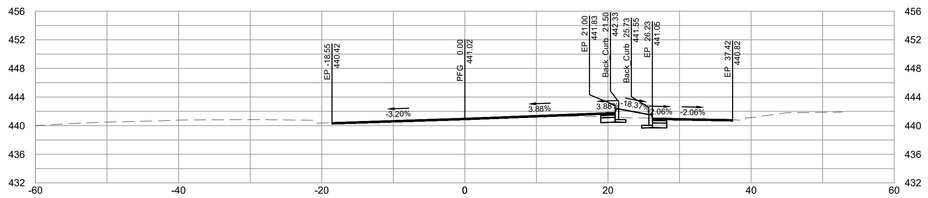

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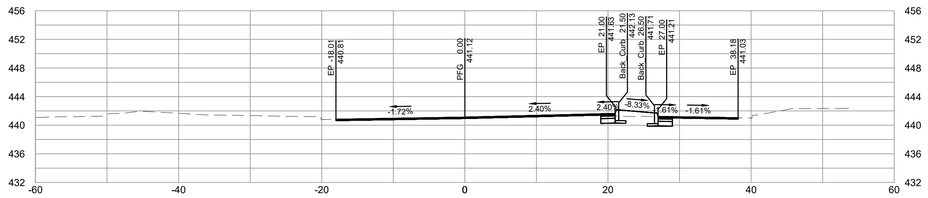

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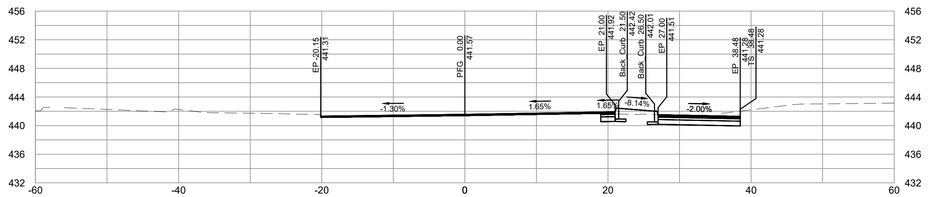

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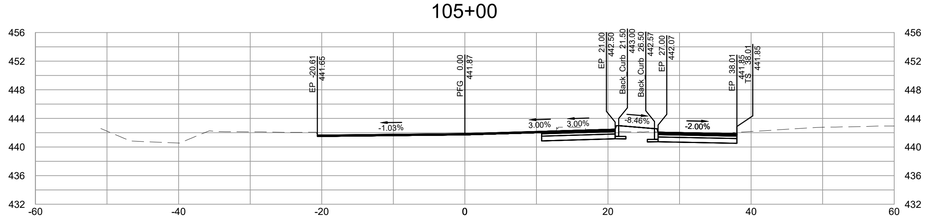

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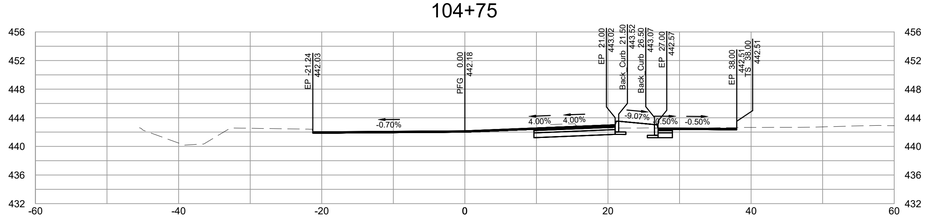

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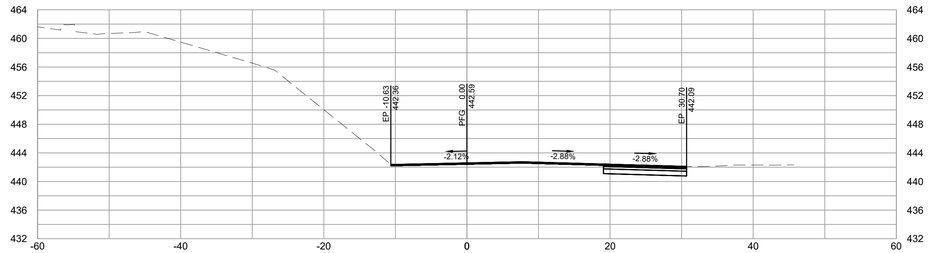

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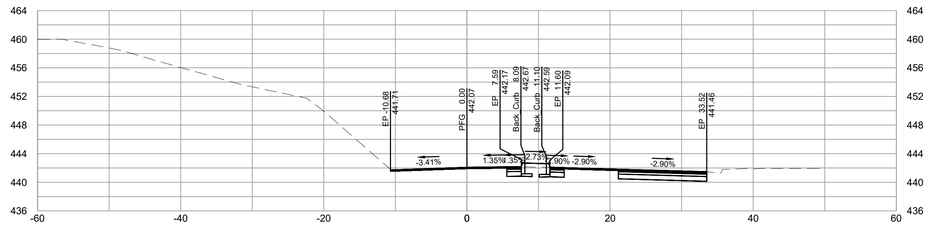

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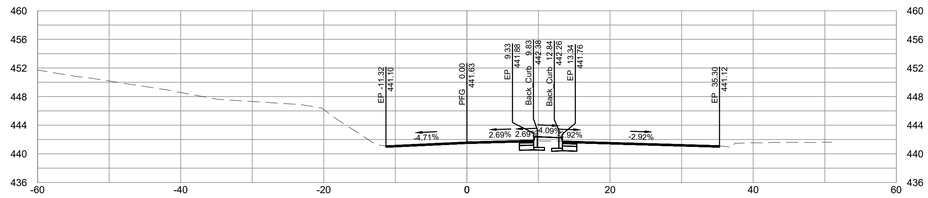

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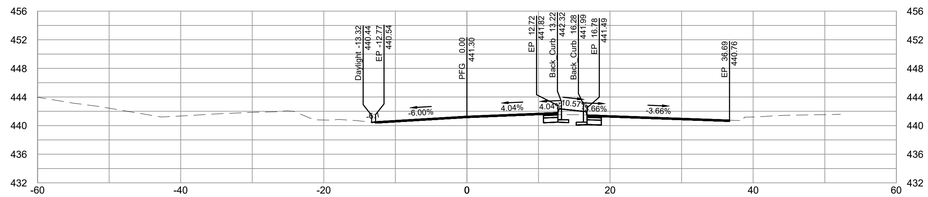

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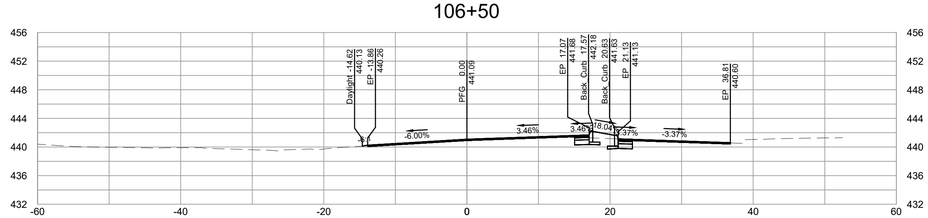

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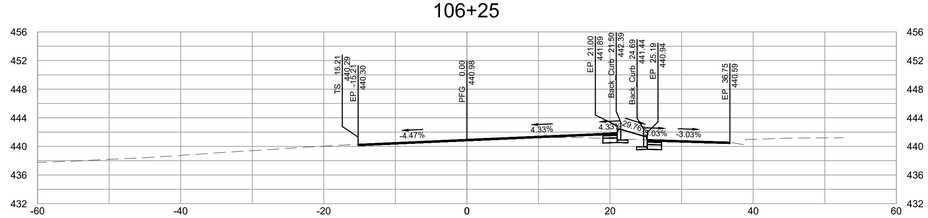

60% PLANS

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7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE
06/18/2021

DRAWN BY
KJH

DESIGNED BY
KJH

CHECKED BY
BTC

SCALE
1"=10'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

BARRACKS ROAD EAST CROSS SECTIONS

JOB NO.
43569

SHEET NO.
XS06

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Project #: NHPP-5104(275)
UPC: 111796

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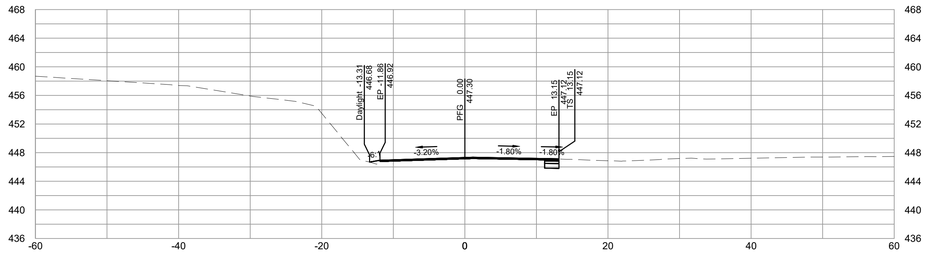

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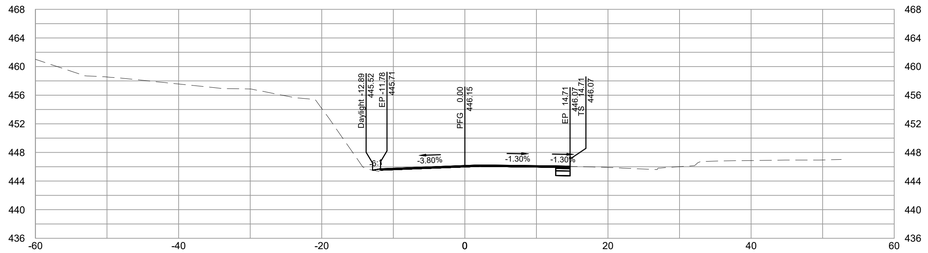

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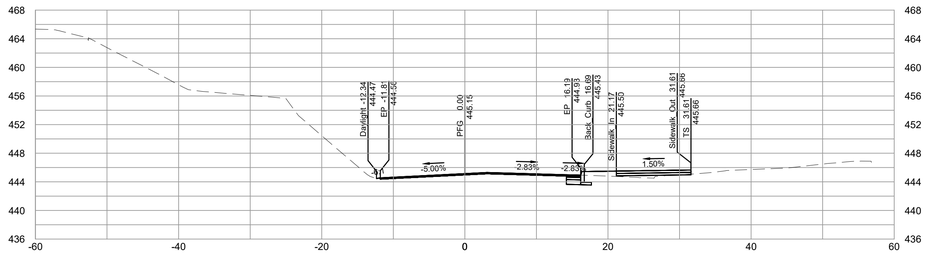

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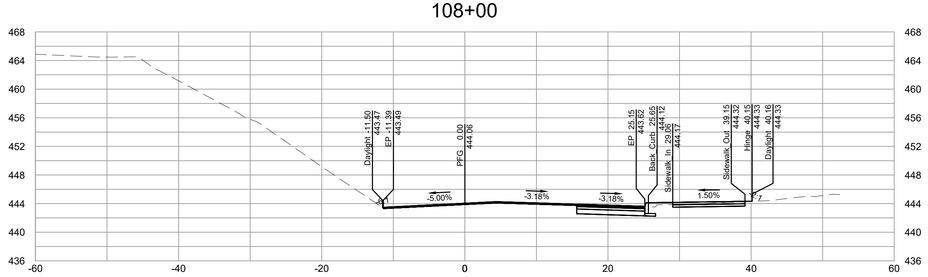

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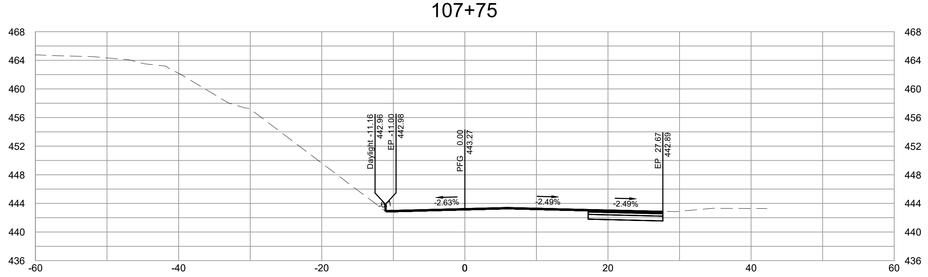

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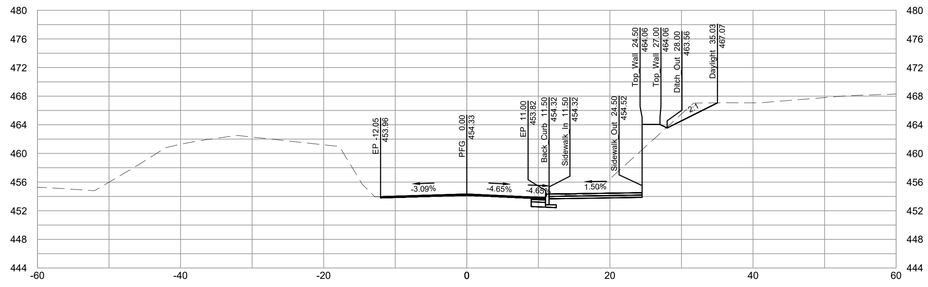

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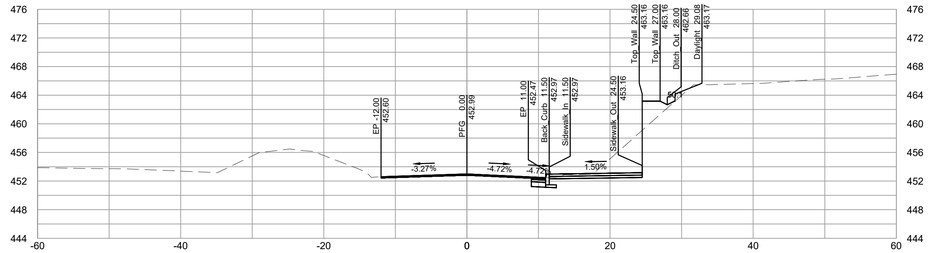

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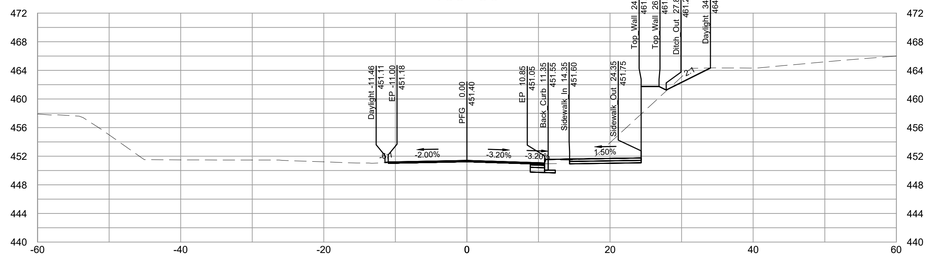

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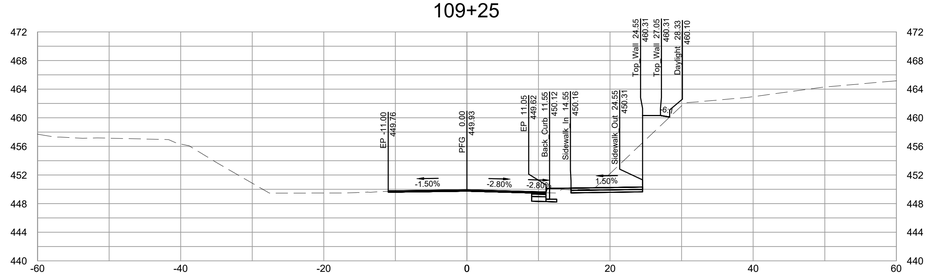

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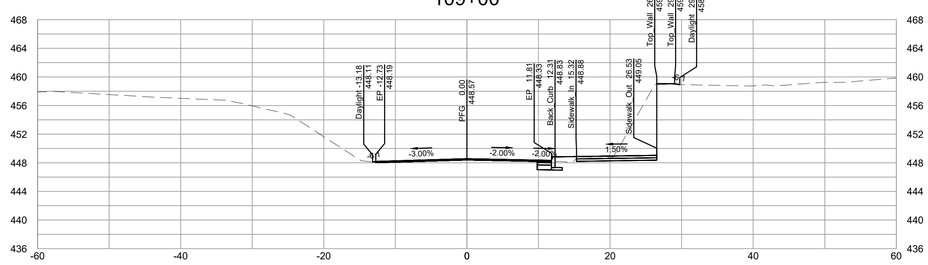

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60% PLANS

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DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=10'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

BARRACKS ROAD EAST CROSS SECTIONS

JOB NO. 43569
SHEET NO. XS07

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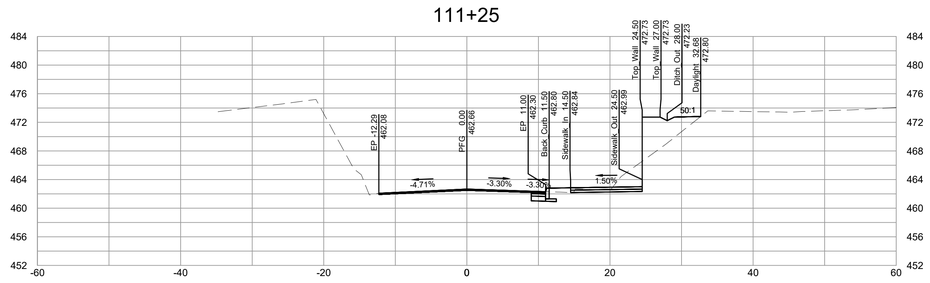
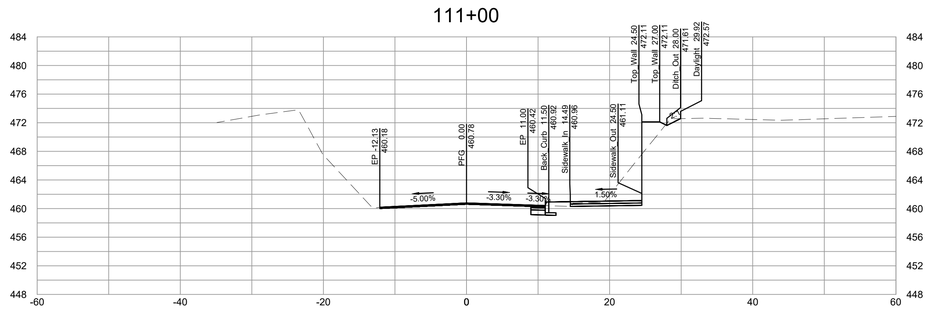
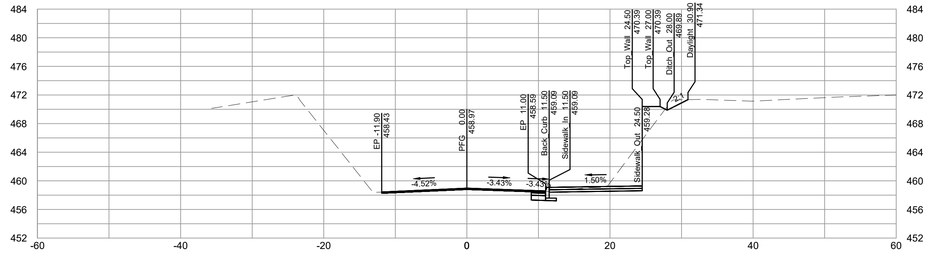
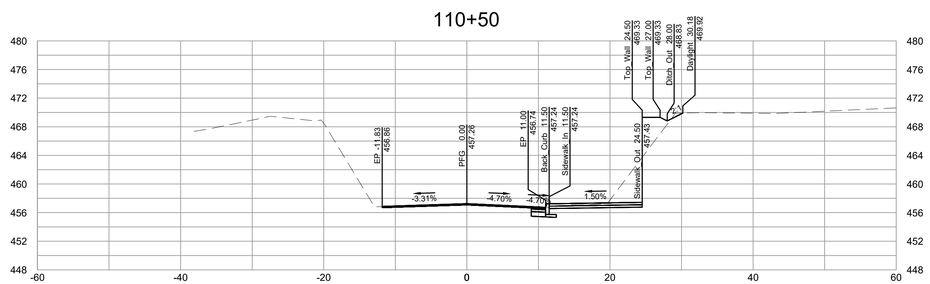
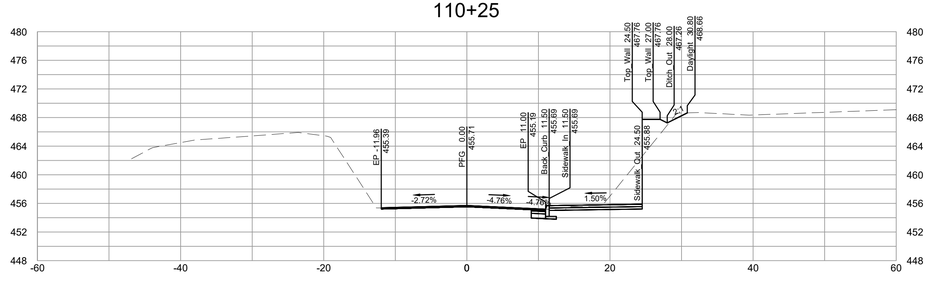
Project #: NHPP-5104(275)
UPC: 111796

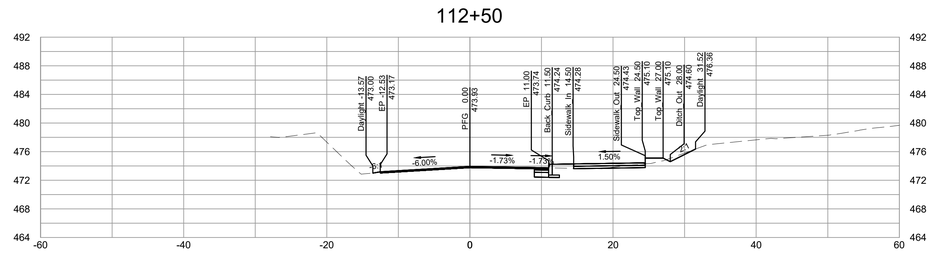


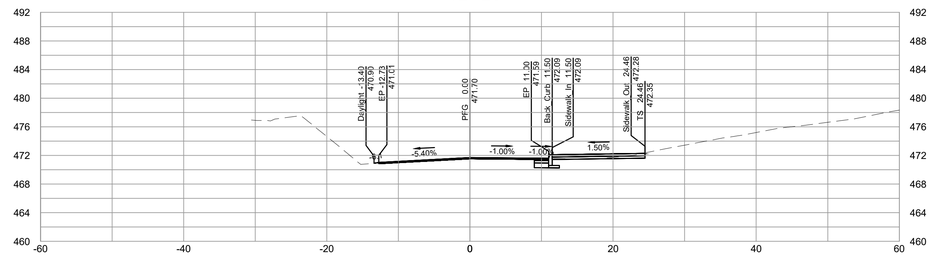


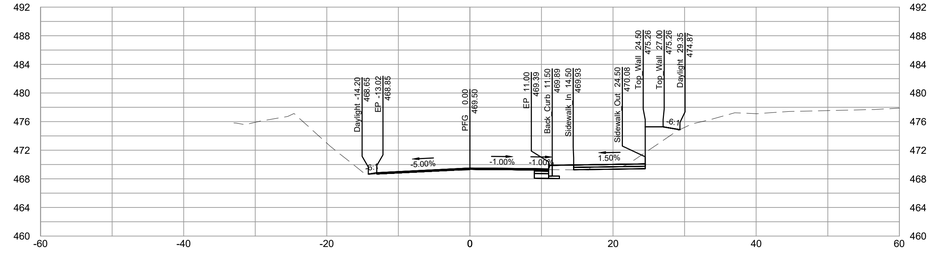


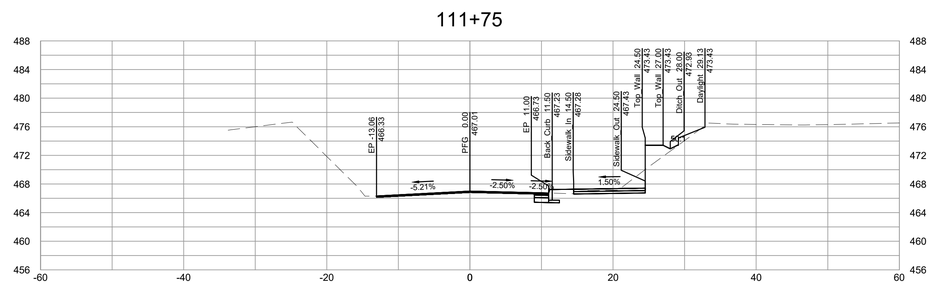


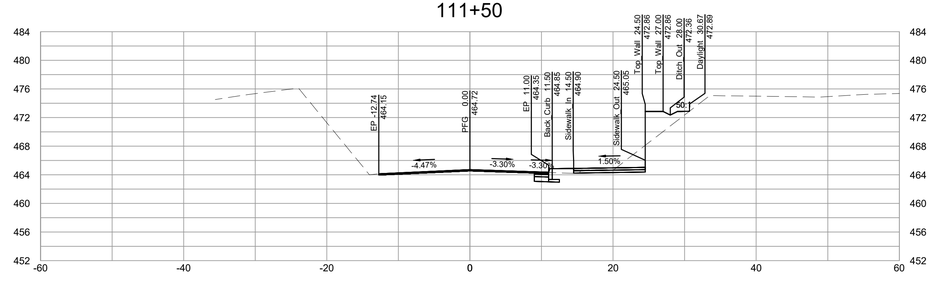












60% PLANS

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DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=10'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

BARRACKS ROAD EAST CROSS SECTIONS

JOB NO. 43569
SHEET NO. XS08

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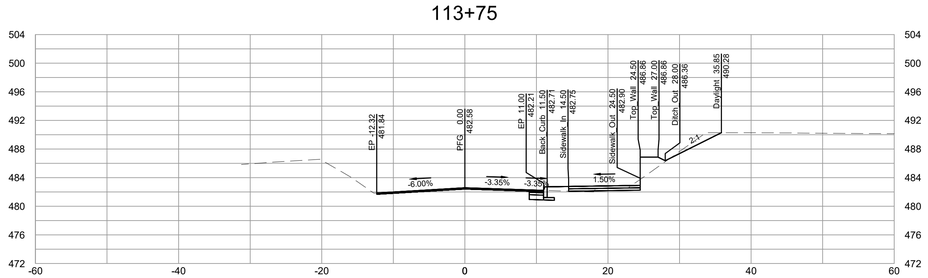
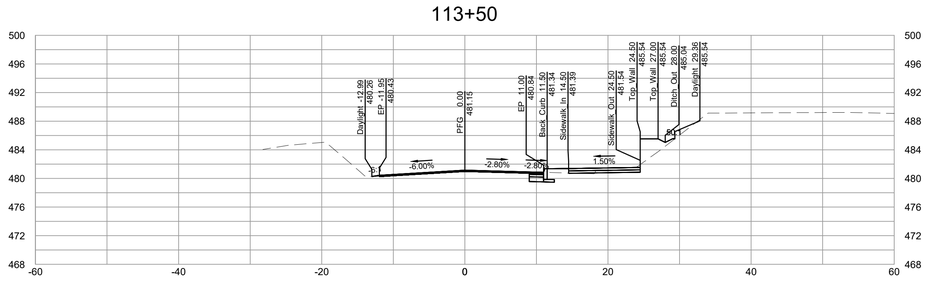
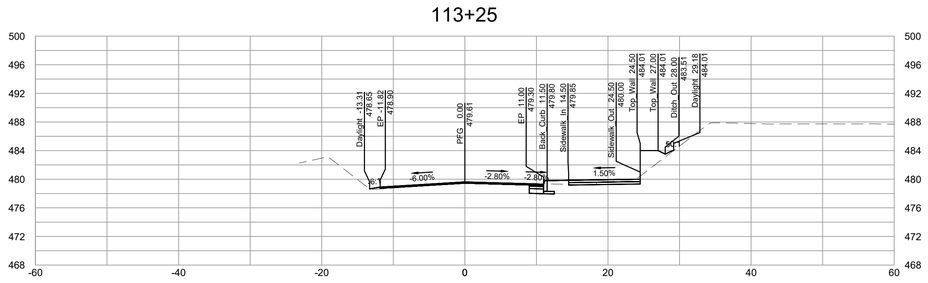
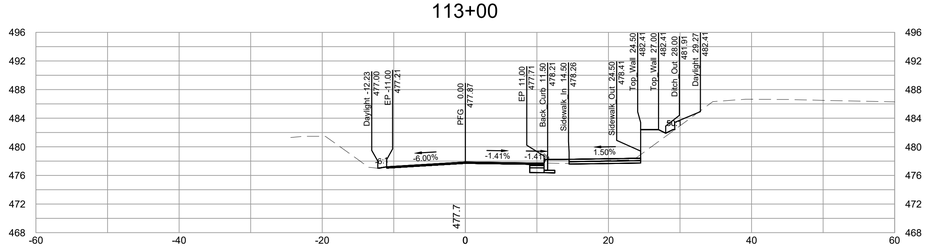
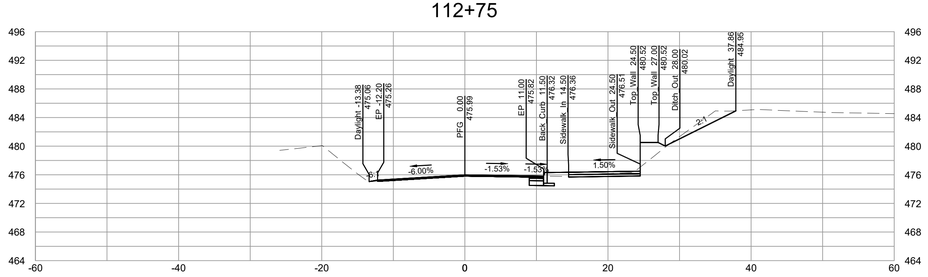
Project #: NHPP-5104(275)
UPC: 111796

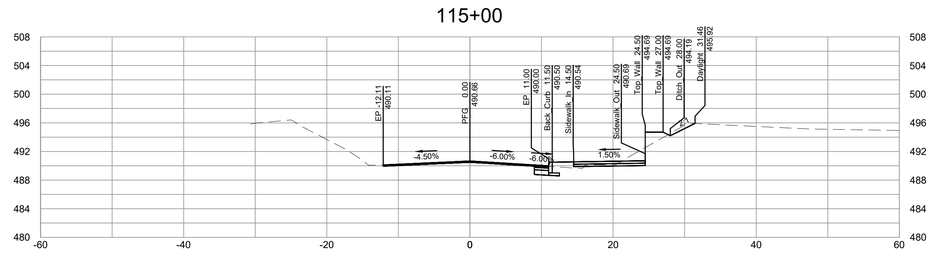


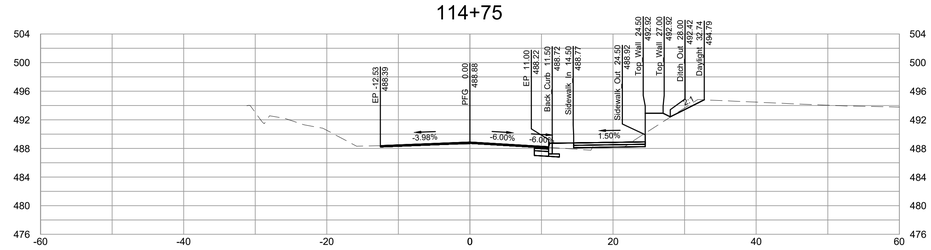


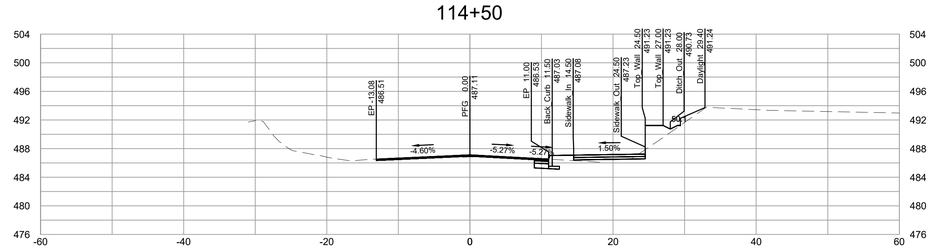


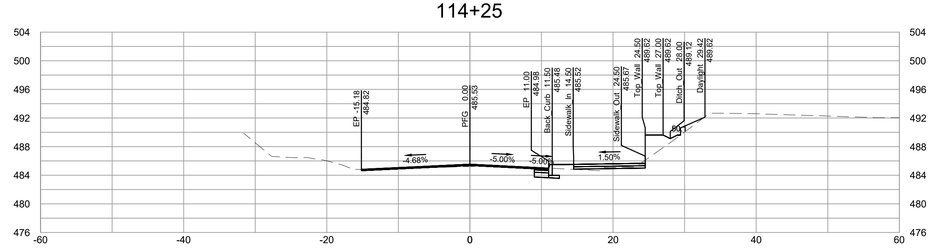


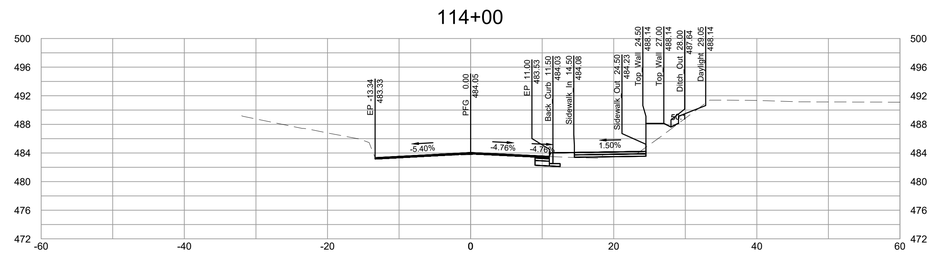












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DATE
06/18/2021

DRAWN BY
KJH

DESIGNED BY
KJH

CHECKED BY
BTC

SCALE
1"=10'

TIMMONS GROUP

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BARRACKS ROAD EAST CROSS SECTIONS

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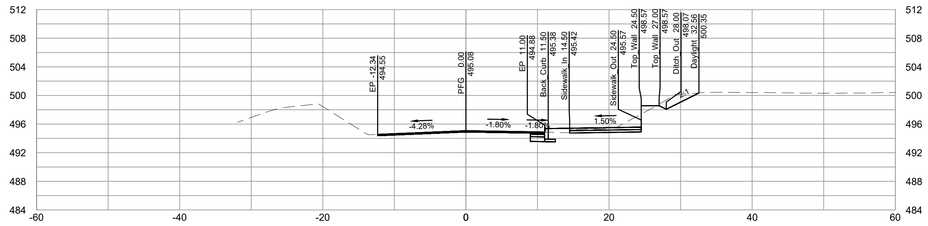
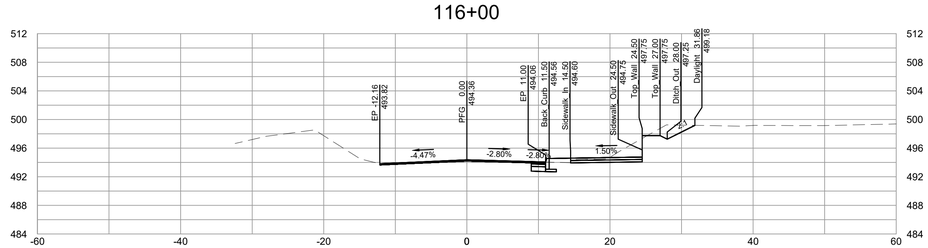
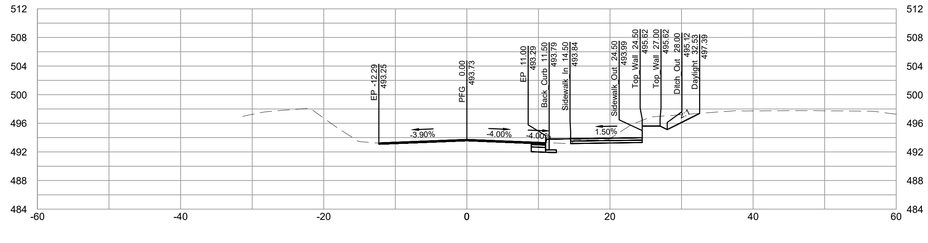
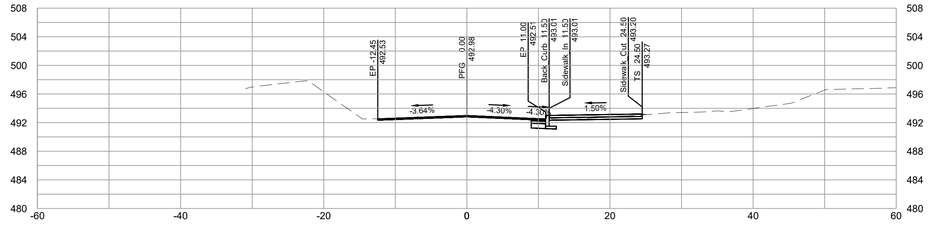
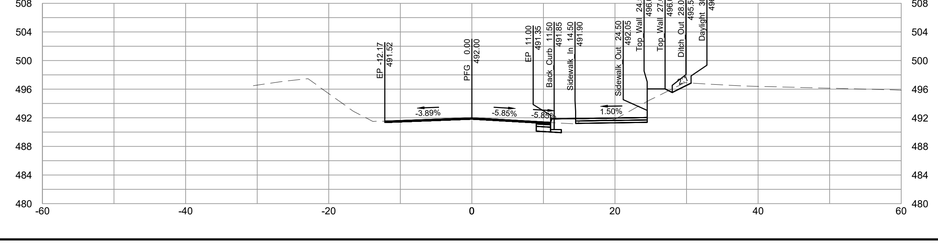
Project #: NHPP-5104(275)
UPC: 111796

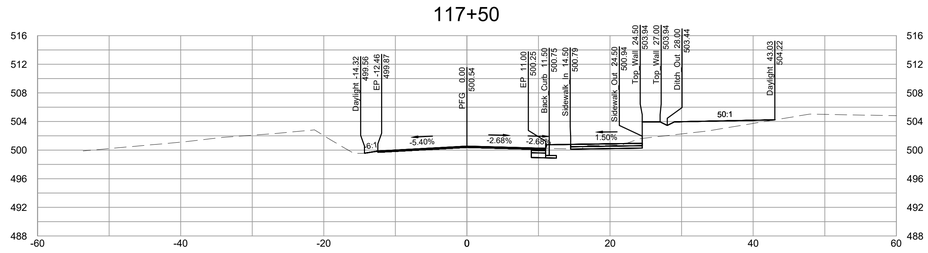


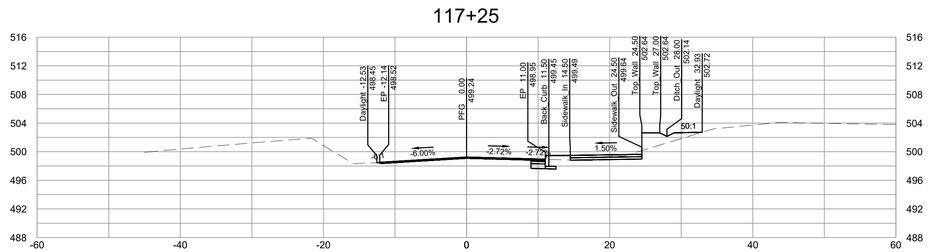


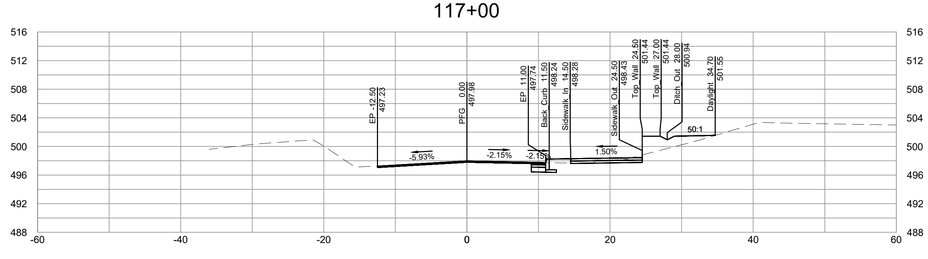


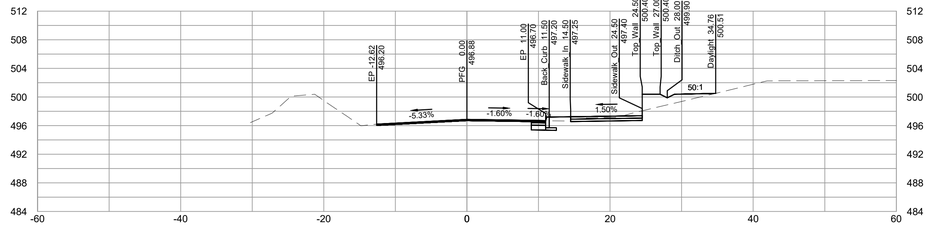


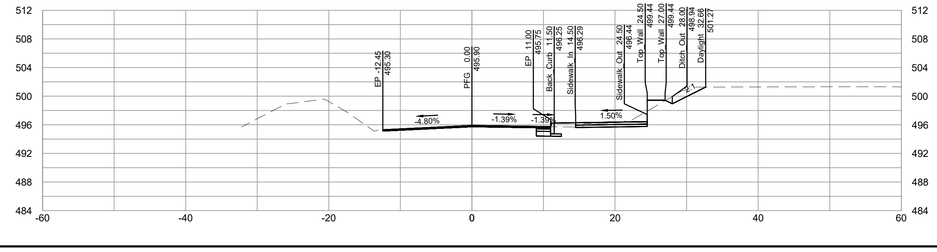












60% PLANS

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DATE	REVISION DESCRIPTION
3/20/2020	30% PFI PLANS - REVISED PER CITY AND VDOT COMMENTS
7/31/2020	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS
2/12/2021	60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=10'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS
BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA
BARRACKS ROAD EAST CROSS SECTIONS

JOB NO. 43569
SHEET NO. XS10

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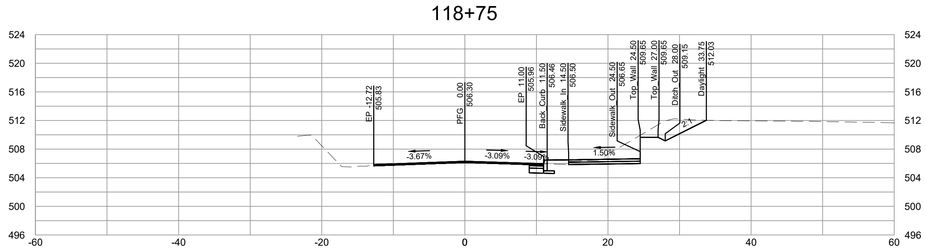
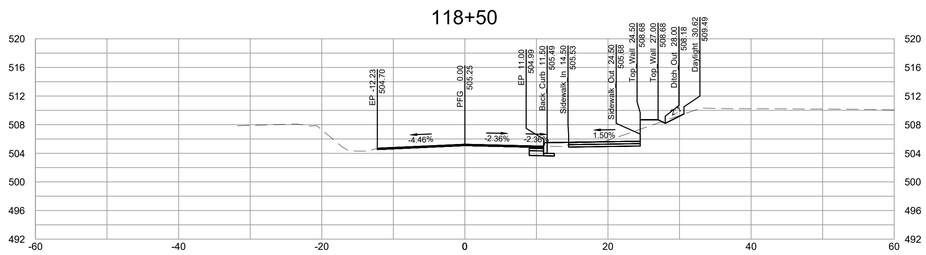
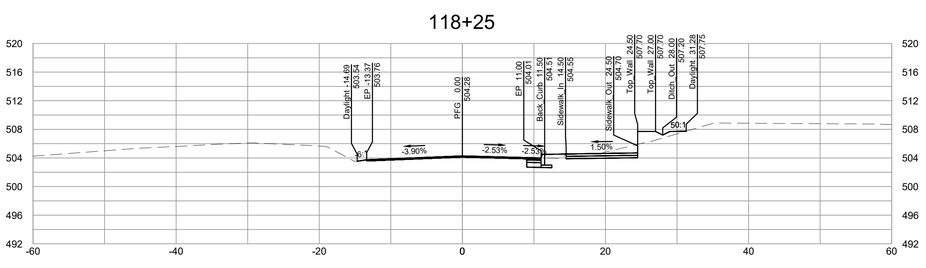
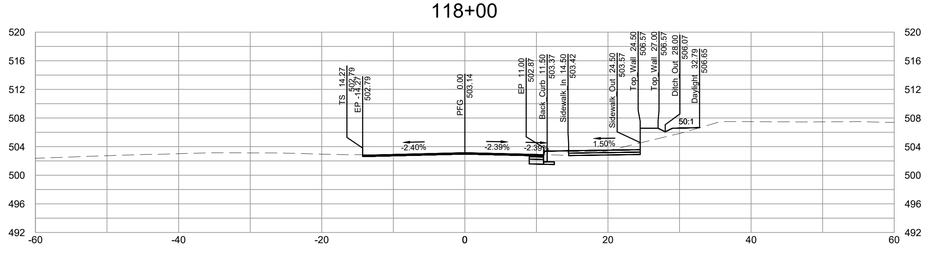
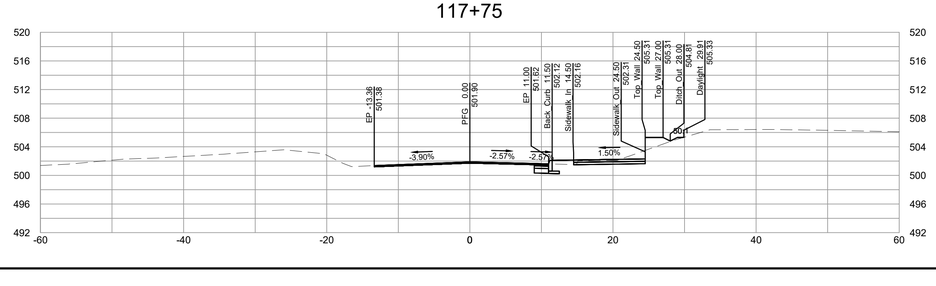
Project #: NHPP-5104(275)
UPC: 111796

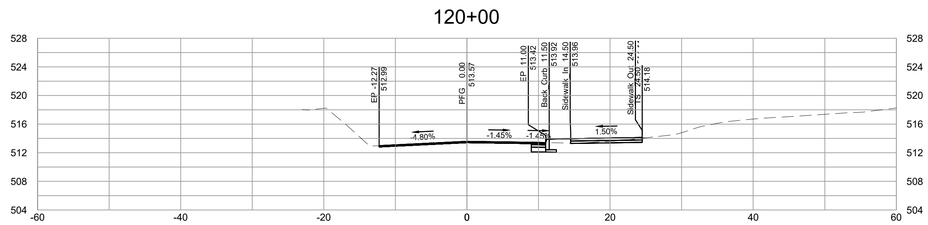


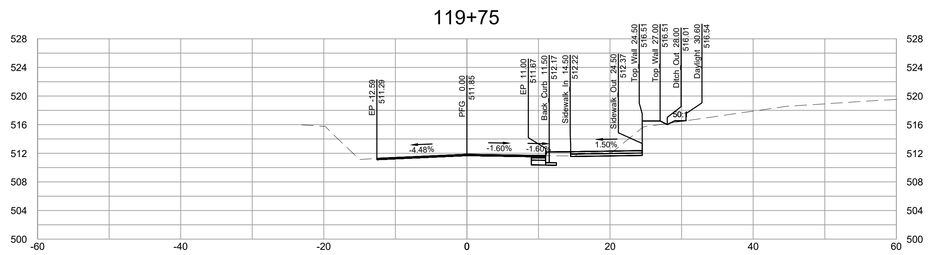


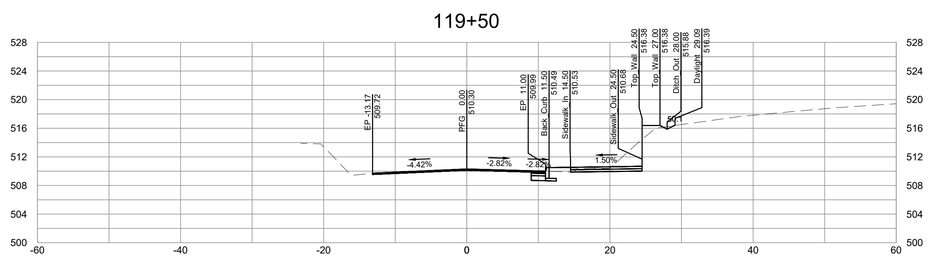


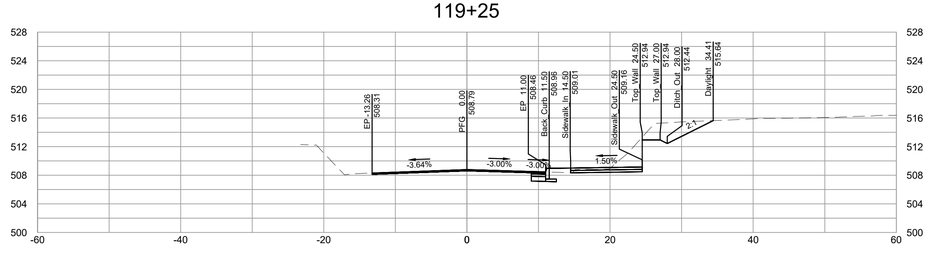


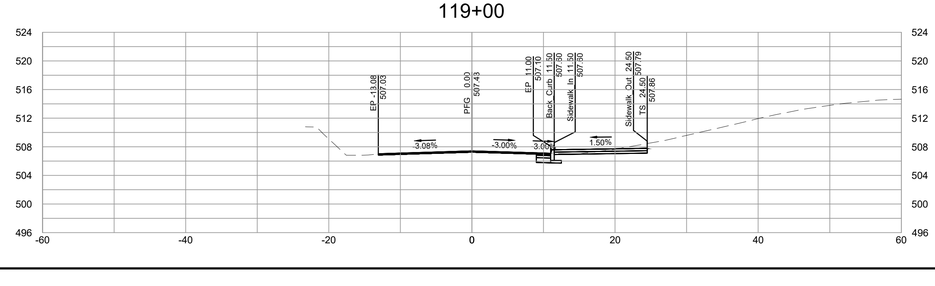












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60% PH PLANS - REVISED PER CITY AND VDOT COMMENTS	2/12/2021

DATE: 06/18/2021
DRAWN BY: KJH
DESIGNED BY: KJH
CHECKED BY: BTC
SCALE: 1"=10'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

BARRACKS ROAD EAST CROSS SECTIONS

JOB NO. 43569
SHEET NO. XS11

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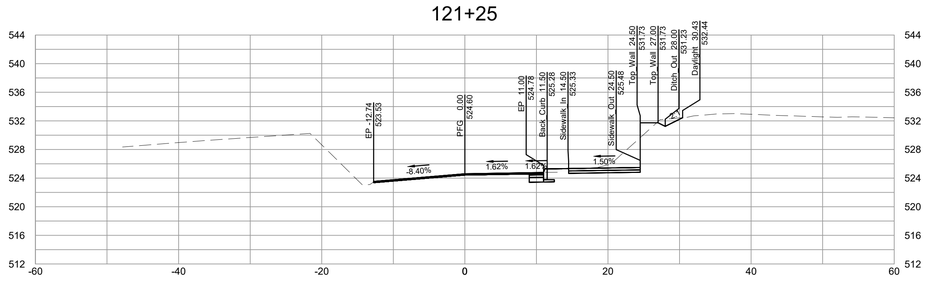
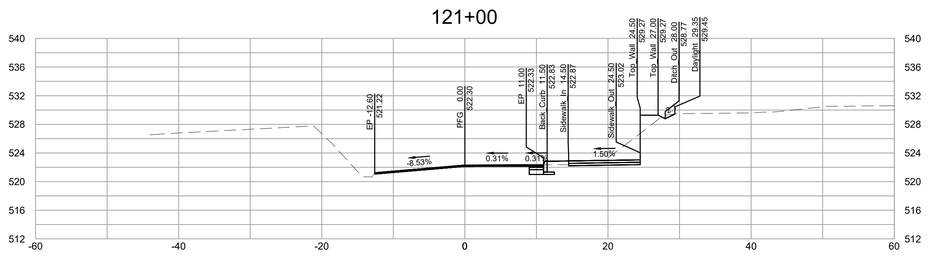
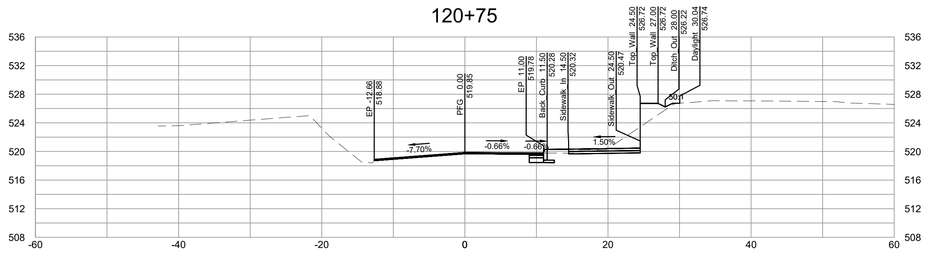
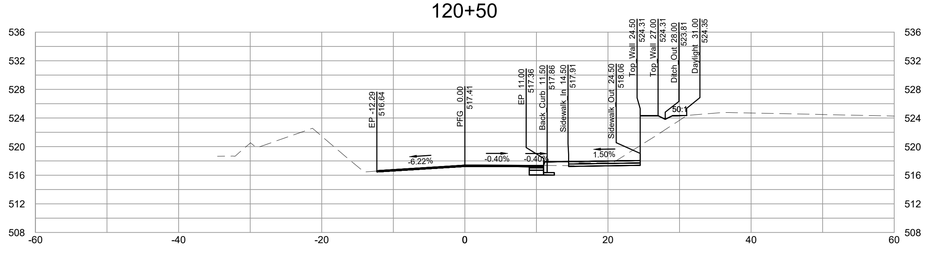
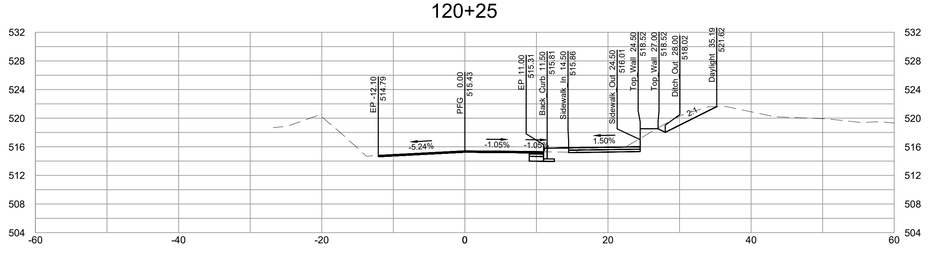
Project #: NHPP-5104(275)
UPC: 111796

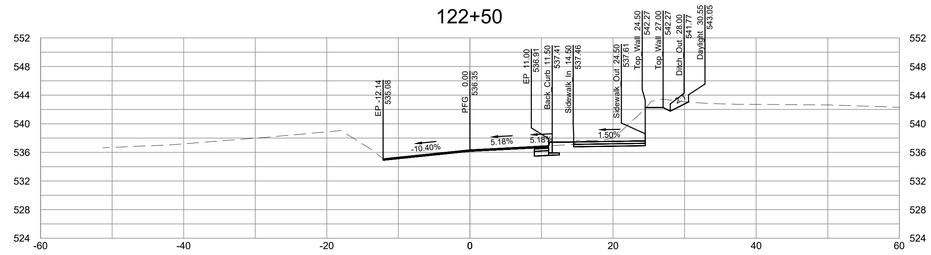


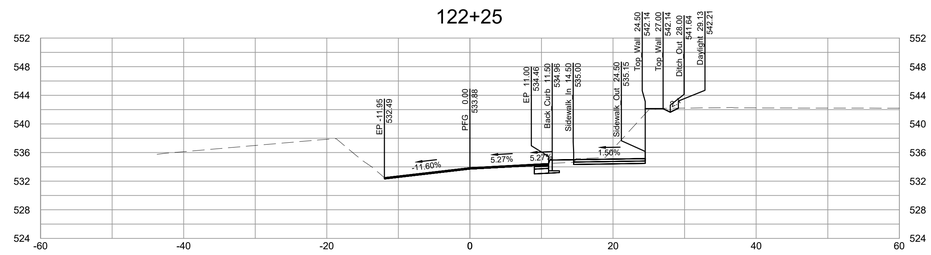


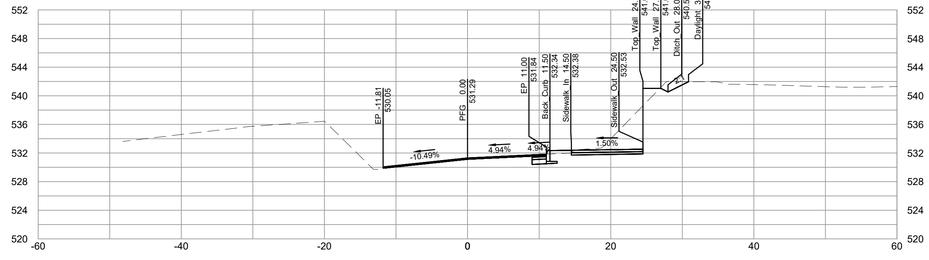


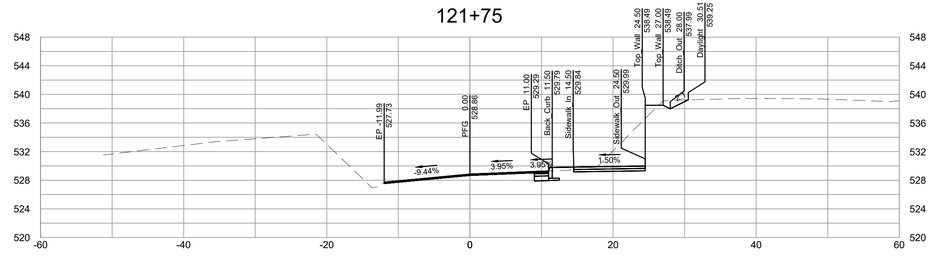


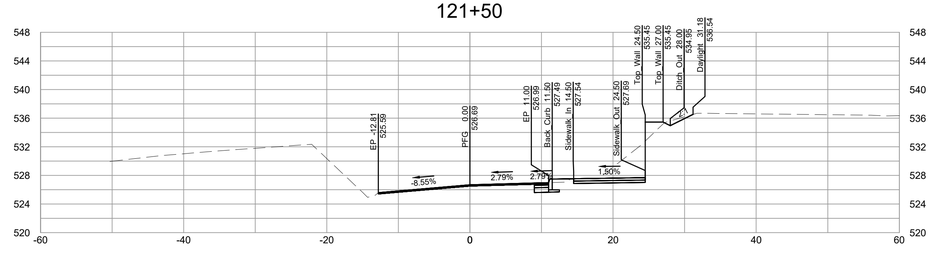












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DATE
06/18/2021

DRAWN BY
KJH

DESIGNED BY
KJH

CHECKED BY
BTC

SCALE
1"=10'

TIMMONS GROUP

BARRACKS RD & EMMET ST IMPROVEMENTS

BARRACKS/RUGBY DISTRICT - CITY OF CHARLOTTESVILLE - VIRGINIA

BARRACKS ROAD EAST CROSS SECTIONS

JOB NO.
43569

SHEET NO.
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Project #: NHPP-5104(275)
UPC: 111796

123+50

123+25

123+00

122+75

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BARRACKS RD & EMMET ST IMPROVEMENTS
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BARRACKS ROAD EAST CROSS SECTIONS

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