PROJECT MANAGER TOWN OF VIENNA: MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

SHEET INDEX

COMMONWEALTH OF VIRGINIA

TOWN OF VIENNA

TOWN OF VIENNA - DEPARTMENT OF PUBLIC WORKS

FHWA 534 DATA 27028
UPC NO.111403

STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
VA	TAP-5A01( ) See tabulations below for section numbers.		(NFO)ENI7-153-114	1

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
PARK STREET N.E. - URBAN LOCAL STREET - ROLLING	
	Fr: ALBEA COURT N.E. To: AYR HILL AVENUE N.E.
ADT	N/A
ADT	N/A
DHV	N/A
D (%) (design hour)	N/A
T (%) (design hour)	N/A
V (MPH)	25 (POSTED SPEED)

Note: All roadways and features are maintained by the Town of Vienna.

PLAN AND PROFILE OF PROPOSED PEDESTRIAN ACCESS IMPROVEMENTS

PARK STREET SIDEWALK

FROM: 320 LF S. of ALBEA COURT
TO: AYR HILL AVENUE N.E. (RTE 6933)

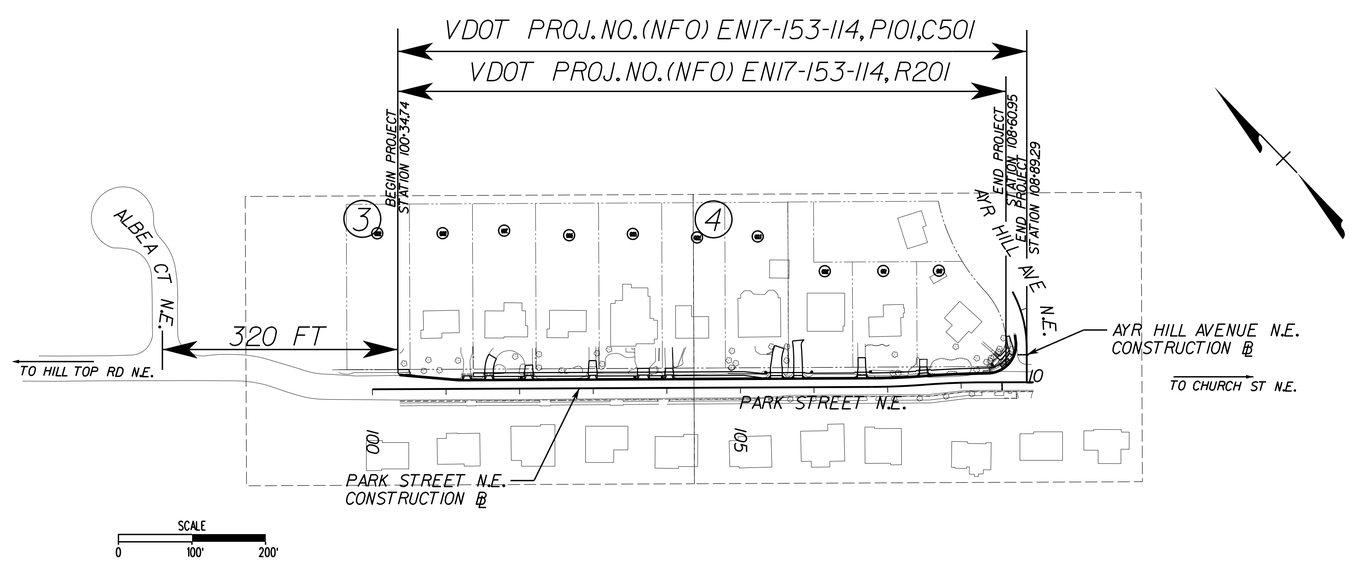
THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK).
GEOPAK Computer Identification No. 111403

Vicinity Map

CONVENTIONAL SIGNS

STATE LINE
COUNTY LINE
CITY, TOWN OR VILLAGE
RIGHT OF WAY LINE
FENCE LINE
UNFENCED PROPERTY LINE
FENCED PROPERTY LINE
WATER LINE
SANITARY SEWER LINE
GAS LINE
ELECTRIC UNDERGROUND CABLE
TRAVELED WAY
GUARD RAIL
RETAINING WALL
RAILROADS
BASE OR SURVEY LINE

LEVEE OR EMBANKMENT
BRIDGES
CULVERTS
DROP INLET
POWER POLES
TELEPHONE OR TELEGRAPH POLES
TELEPHONE OR TELEGRAPH LINES
HEDGE
TREES
HEAVY WOODS
GROUND ELEVATION
GRADE ELEVATION



THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED, INCLUDING ALL SUBSEQUENT REVISIONS, WILL BE THE OFFICIAL CONSTRUCTION PLANS. FOR INFORMATION RELATIVE TO ELECTRONIC FILES AND LAYERED PLANS, SEE GENERAL NOTES.

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 DEPARTMENT'S 2020 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL, TOWN OF VIENNA PUBLIC INFRASTRUCTURE MANUAL AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.11ULS, EXCEPT WHERE OTHERWISE NOTED.

THE ORIGINAL APPROVED TITLE SHEET(S), INCLUDING ORIGINAL SIGNATURES, IS 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.

Population 16,544 (2017 Census)

DESCRIPTION REFERENCE:
INTERSECTION OF PARK STREET N.E.
WITH AYR HILL AVENUE N.E.
POT. 108+89.29

STATE PROJECT NO.	SECTION	FEDERAL AID	TYPE CODE	UPC NO.	LENGTH INCLUDING BRIDGE(S) FEET	LENGTH INCLUDING BRIDGE(S) MILES	LENGTH EXCLUDING BRIDGE(S) FEET	LENGTH EXCLUDING BRIDGE(S) MILES	BRIDGE PLAN NO.	TYPE PROJECT	DESCRIPTION
ENI7-153-114	P101	TAP-5A01(910)	PENG	111403	852.56	0.16	852.56	0.16	N/A	PREL. ENG.	FROM: 320 LF S. of ALBEA COURT / TO: AYR HILL AVENUE N.E.
	R201	TAP-5B01(193)	ROWA	111403	826.21	0.16	826.21	0.16	N/A	PREL. ENG.	FROM: 320 LF S. of ALBEA COURT / TO: AYR HILL AVENUE N.E.
	C501	TAP-5B01(194)	FOOO	111403	852.56	0.16	852.56	0.16	N/A	PREL. ENG.	FROM: 320 LF S. of ALBEA COURT / TO: AYR HILL AVENUE N.E.

NOTE: PROJECT LENGTH BASED ON PARK STREET N.E. CONSTRUCTION BASELINE

REVISED

CONSTRUCTION PLANS
JULY 2022

LOCALLY ADMINISTERED PROJECTS

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION

MICHAEL GALLAGHER
DIRECTOR OF DEPARTMENT OF PUBLIC WORKS, TOWN OF VIENNA

DATE

7/12/2022
4:29:24 PM

d4585500300l.dgn
Platted By: tlong

PROJECT MANAGER: TOWN OF VIENNA; MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE: RICE ASSOCIATES, AUGUST 2018
DESIGN BY: WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9112
SUBSURFACE UTILITY BY, DATE: RICE ASSOCIATES, AUGUST 2018

SHEET INDEX

COMMONWEALTH OF VIRGINIA

TOWN OF VIENNA - DEPARTMENT OF PUBLIC WORKS

FHWA 534 DATA 27028
UPC NO.111403

STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
VA	TAP-5A01( ) See tabulations below for section numbers.		(NFO)ENI7-153-114	1

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
PARK STREET N.E. - URBAN LOCAL STREET - ROLLING	
	Fr: ALBEA COURT N.E. To: AYR HILL AVENUE N.E.
ADT	N/A
ADT	N/A
DHV	N/A
D (%) (design hour)	N/A
T (%) (design hour)	N/A
V (MPH)	25 (POSTED SPEED)

Note: All roadways and features are maintained by the Town of Vienna.

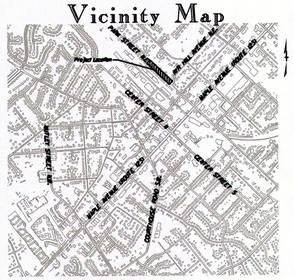
PLAN AND PROFILE OF PROPOSED PEDESTRIAN ACCESS IMPROVEMENTS

PARK STREET SIDEWALK

FROM: 320 LF S. of ALBEA COURT
TO: AYR HILL AVENUE N.E. (RTE 6933)

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK).
GEOPAK Computer Identification No. 111403

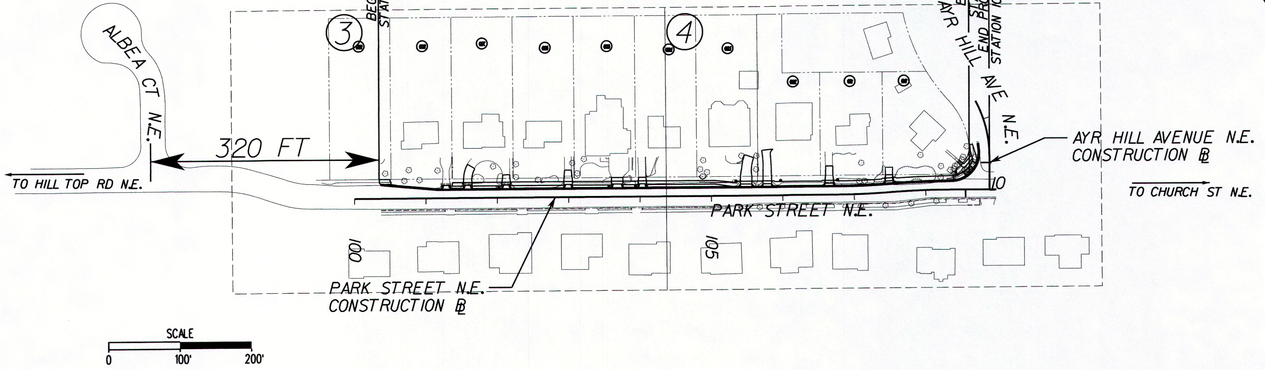
Vicinity Map



CONVENTIONAL SIGNS

STATE LINE
COUNTY LINE
CITY,TOWN OR VILLAGE
RIGHT OF WAY LINE
FENCE LINE
UNFENCED PROPERTY LINE
FENCED PROPERTY LINE
WATER LINE
SANITARY SEWER LINE
GAS LINE
ELECTRIC UNDERGROUND CABLE
TRAVELED WAY
GUARD RAIL
RETAINING WALL
RAILROADS
BASE OR SURVEY LINE

LEVEE OR EMBANKMENT
BRIDGES
CULVERTS
DROP INLET
POWER POLES
TELEPHONE OR TELEGRAPH POLES
TELEPHONE OR TELEGRAPH LINES
HEDGE
TREES
HEAVY WOODS
GROUND ELEVATION
GRADE ELEVATION



THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED, INCLUDING ALL SUBSEQUENT REVISIONS, WILL BE THE OFFICIAL CONSTRUCTION PLANS. FOR INFORMATION RELATIVE TO ELECTRONIC FILES AND LAYERED PLANS, SEE GENERAL NOTES.

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 DEPARTMENT'S 2020 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL, TOWN OF VIENNA PUBLIC INFRASTRUCTURE MANUAL AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.11ULS, EXCEPT WHERE OTHERWISE NOTED.

THE ORIGINAL APPROVED TITLE SHEET(S), INCLUDING ORIGINAL SIGNATURES, IS 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.

Population 16,544 (2017 Census)

DESCRIPTION REFERENCE:
INTERSECTION OF PARK STREET N.E.
WITH AYR HILL AVENUE N.E.
POT. 108+89.29

STATE PROJECT NO.	SECTION	FEDERAL AID	TYPE CODE	UPC NO.	LENGTH INCLUDING BRIDGE(S) FEET	LENGTH INCLUDING BRIDGE(S) MILES	LENGTH EXCLUDING BRIDGE(S) FEET	LENGTH EXCLUDING BRIDGE(S) MILES	BRIDGE PLAN NO.	TYPE PROJECT	DESCRIPTION
ENI7-153-114	P101	TAP-5A01(910)	PENG	111403	852.56	0.16	852.56	0.16	N/A	PREL. ENG.	FROM: 320 LF S. of ALBEA COURT / TO: AYR HILL AVENUE N.E.
	R201	TAP-5B01(193)	ROWA	111403	826.21	0.16	826.21	0.16	N/A	PREL. ENG.	FROM: 320 LF S. of ALBEA COURT / TO: AYR HILL AVENUE N.E.
	C501	TAP-5B01(194)	FOOO	111403	852.56	0.16	852.56	0.16	N/A	PREL. ENG.	FROM: 320 LF S. of ALBEA COURT / TO: AYR HILL AVENUE N.E.

NOTE: PROJECT LENGTH BASED ON PARK STREET N.E. CONSTRUCTION BASELINE

REVISED

CONSTRUCTION PLANS
JULY 2022

LOCALLY ADMINISTERED PROJECTS

Michael Gallagher
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION

7/19/22
DATE

MICHAEL GALLAGHER
DIRECTOR OF DEPARTMENT OF PUBLIC WORKS, TOWN OF VIENNA

PROJECT	SHEET NO.
ENI7-153-114	1

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380.
SURVEYED BY, DATE BICE ASSOCIATES, (703) 968-3200, AUGUST 2018.
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

RIGHT OF WAY DATA SHEET

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	IA

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

City/County: Town of Vienna

UPC No.: 111403

PARCEL NO.	LANDOWNER	SHEET NO.	AREA								EASEMENTS								PROFFERS
			TOTAL	FEE TAKING		PRESCRIPTIVE R/W		FEE REMAINDER		PERMANENT		UTILITY		TEMPORARY		TEMPORARY(ENTRANCES)		
			ACRES OR SQUARE FEET	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	YES / NO
001	Dong Yeop Lee & Ji Won Mok	4	12501					12501						253				NO
002	Benjamin and Eugenia Walsh	4	15369					15369						1023				NO
003	Bruce D.& Shohreh Kraselsky	4	19265					19265						1011				NO
004	Leonard Chhuoy & Sokvery Ngim	3,4	19265					19265						85				NO
005	Darryl L.Franklin & Carla D.Brown	3	19265					19265						76				NO
006	John Edwards and Premala E. Brewster Wilson	3	19265					19265						1059				NO
007	John J.& Maureen H.Barrett	3	19265					19265						1683				NO
008	Gopal Krishna Bajaj,Trustee of the Bajaj Family Trust	3	19265					19265										NO
009	Sam Farraj Trust and Grace Farraj Trust	3	19272					19272						134				NO
010	Brendon William and Francesca Gentian Mast	4	14725					14725						1617				NO

PROJECT	SHEET NO.
ENI7-153-114	IA

PROJECT MANAGER MICHAEL J GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

SURVEY CONTROL & CONSTRUCTION ALIGNMENT

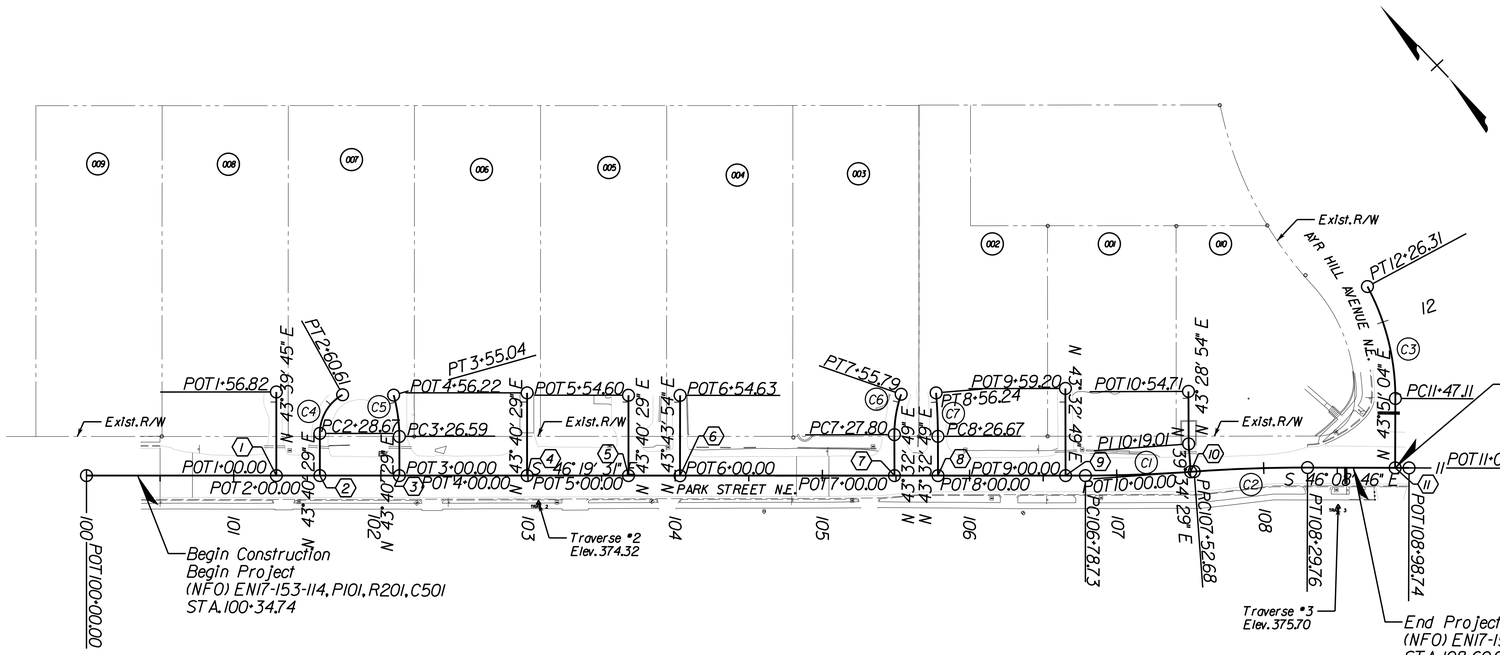
COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

Tyler Long 2022.07.13 08:14:18 -04'00'

Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	IB

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



TRAVERSE CONTROL TABLE				
POINT	NORTHING	EASTING	ELEV.	DESC.
1	7,015,952.23	11,833,485.14	341.89	R&C
2	7,015,466.83	11,833,885.07	374.32	R&C
3	7,015,089.79	11,834,276.22	375.70	R&C

(C1) Curve PS001
PI = 107+15.72
DELTA = 4° 14' 14.36" (LT)
D = 5° 43' 46"
T = 36.99'
L = 73.96'
R = 1,000.00'
PC = 106+78.73
PRC = 107+52.68
e = Existing
V = 25 MPH

(C2) Curve PS002
PI = 107+91.24
DELTA = 4° 24' 59.22" (RT)
D = 5° 43' 46"
T = 38.56'
L = 77.08'
R = 1,000.00'
PRC = 107+52.68
PT = 108+29.76
e = Existing
V = 25 MPH

(C3) Curve AYR1
PI = 11+87.54
DELTA = 28° 21' 41.06" (LT)
D = 35° 48' 36"
T = 40.43'
L = 79.20'
R = 160.00'
PC = 11+47.11
PT = 12+26.31
e = Existing
V = 25 MPH

(C4) Curve PE21
PI = 2+46.34
DELTA = 61° 00' 12.87" (RT)
D = 190° 59' 09"
T = 17.67'
L = 31.94'
R = 30.00'
PC = 2+28.67
PT = 2+60.61

(C5) Curve PE31
PI = 3+40.90
DELTA = 15° 31' 13.64" (LT)
D = 5° 44' 34" 03"
T = 14.31'
L = 28.44'
R = 105.00'
PC = 3+26.59
PT = 3+55.04

(C6) Curve PE71
PI = 7+41.93
DELTA = 19° 18' 09.15" (RT)
D = 68° 57' 47"
T = 14.13'
L = 27.99'
R = 83.08'
PC = 7+27.80
PT = 7+55.79

(C7) Curve PE81
PI = 8+41.47
DELTA = 4° 37' 07.21" (LT)
D = 15° 37' 15"
T = 14.79'
L = 29.57'
R = 366.79'
PC = 8+26.67
PT = 8+56.24

(1) Sta.1+00.00 ENTRANCE #1 @
Sta.101+29.00 PARK STREET N.E.@
△ = 90° 00' 00"

(2) Sta.2+00.00 ENTRANCE #2 @
Sta.101+58.56 PARK STREET N.E.@
△ = 90° 00' 00"

(3) Sta.3+00.00 ENTRANCE #3 @
Sta.102+12.57 PARK STREET N.E.@
△ = 90° 00' 00"

(4) Sta.4+00.00 ENTRANCE #4 @
Sta.102+99.38 PARK STREET N.E.@
△ = 90° 00' 00"

(5) Sta.5+00.00 ENTRANCE #5 @
Sta.103+68.26 PARK STREET N.E.@
△ = 90° 00' 00"

(6) Sta.6+00.00 ENTRANCE #6 @
Sta.104+03.27 PARK STREET N.E.@
△ = 90° 00' 00"

(7) Sta.7+00.00 ENTRANCE #7 @
Sta.105+48.99 PARK STREET N.E.@
△ = 90° 00' 00"

(8) Sta.8+00.00 ENTRANCE #8 @
Sta.105+78.56 PARK STREET N.E.@
△ = 90° 00' 00"

(9) Sta.9+00.00 ENTRANCE #9 @
Sta.106+65.26 PARK STREET N.E.@
△ = 90° 00' 00"

(10) Sta.10+00.00 ENTRANCE #10 @
Sta.107+50.29 PARK STREET N.E.@
△ = 90° 00' 00"

(11) Sta.11+00.00 AYR HILL AVENUE N.E.@
Sta.108+89.29 PARK STREET N.E.@
△ = 90° 00' 00"

SCALE
0 50' 100'

UTILITY CONTACTS:

AT&T
NO UTILITIES IN WORK AREA
GARY WIGFIELD
CONSTRUCTION ENGINEER MANAGER
4800 WINCHESTER BOULEVARD
FREDERICK, MD. 21703
(301) 606-1404

COX COMMUNICATION
REQUESTED PRINTS 6-21,6-25, 7-1-18
NO RESPONSE AS OF 8-20-18
JOSHUA ARNOLD
SUPERVISOR CONSTRUCTION
3800 CENTREVILLE ROAD
FREDERICKSBURG, VA 20171
(703) 480-5157

DOMINION POWER
RECEIVED PRINTS 6-25-18
JULIA MATHERS
COORDINATOR OF ELECTRIC DISTRICT
3072 CENTREVILLE ROAD
HERNDON, VA 20171
(571) 203-5324

SUMMITIG LLC
NO UTILITIES IN WORK AREA
STEVE RAGLAND
VICE PRESIDENT OF OPERATION
22375 BRODERICK DRIVE
DULLES, VA 20166
(703) 376-3700

TOWN OF VIENNA WATER
RECEIVED PRINTS 6-21-18
JENNIFER SIGLER
127 CENTER STREET
VIENNA, VA 22180
(703) 255-6380

VERIZON COMMUNICATION
REQUESTED PRINTS 6-21,6-25, 7-1-18
NO RESPONSE AS OF 8-20-18
JAMES CUNNINGHAM
SUPRERVISOR OF NETWORK
13101 COLUMBIA PIKE
SILVER SPRINGS, MD. 20904
(301) 282-4506

WASHINGTON GAS
RECEIVED PRINTS 6-21-18
NALA BYRD
RECORDS CLERK
6801 INDUSTRIAL ROAD
SPRINGFIELD, VA 22151
(703) 750-4403

PROJECT MANAGER MICHAEL J GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

CONSTRUCTION ALIGNMENT DATA SHEET

COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

Tyler Long 2022.07.13 08:13:25 -04'00'

Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	IC

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

PARK STREET N.E.

Beginning chain PARKST description
==========

Point PS03 N 7,015,692.40 E 11,833,675.76 Sta 100+00.00

Course from PS03 to PC PS001 S 46° 19' 31.13" E Dist 678.73

Curve Data

Curve PS001			
P.I. Station	107+15.72 N	7,015,198.14 E	11,834,193.42
Delta =	4° 14' 14.36" (LT)		
Degree =	5° 43' 46.48"		
Tangent =	36.99		
Length =	73.96		
Radius =	1,000.00		
External =	0.68		
Long Chord =	73.94		
Mid. Ord. =	0.68		
P.C. Station	106+78.73 N	7,015,223.69 E	11,834,166.66
P.T. Station	107+52.68 N	7,015,174.64 E	11,834,221.99
C.C.	N 7,015,946.96 E		11,834,857.23

Back = S 46° 19' 31.13" E
Ahead = S 50° 33' 45.49" E
Chord Bear = S 48° 26' 38.31" E

Curve Data

Curve PS002			
P.I. Station	107+91.24 N	7,015,150.15 E	11,834,251.77
Delta =	4° 24' 59.22" (RT)		
Degree =	5° 43' 46.48"		
Tangent =	38.56		
Length =	77.08		
Radius =	1,000.00		
External =	0.74		
Long Chord =	77.06		
Mid. Ord. =	0.74		
P.C. Station	107+52.68 N	7,015,174.64 E	11,834,221.99
P.T. Station	108+29.76 N	7,015,123.44 E	11,834,279.58
C.C.	N 7,014,402.33 E		11,833,586.76

Back = S 50° 33' 45.49" E
Ahead = S 46° 08' 46.28" E
Chord Bear = S 48° 21' 15.88" E

Course from PT PS002 to PS07 S 46° 08' 46.28" E Dist 68.98

Point PS07 N 7,015,075.65 E 11,834,329.32 Sta 108+98.74

==========
Ending chain PARKST description

AYR HILL AVENUE N.E.

Beginning chain AYR description
==========

Point AY01 N 7,015,082.19 E 11,834,322.51 Sta 11+00.00

Course from AY01 to PC AYR1 N 43° 51' 04.33" E Dist 47.11

Curve Data

Curve AYR1			
P.I. Station	11+87.54 N	7,015,145.32 E	11,834,383.15
Delta =	28° 21' 41.06" (LT)		
Degree =	35° 48' 35.50"		
Tangent =	40.43		
Length =	79.20		
Radius =	160.00		
External =	5.03		
Long Chord =	78.39		
Mid. Ord. =	4.88		
P.C. Station	11+47.11 N	7,015,116.16 E	11,834,355.14
P.T. Station	12+26.31 N	7,015,184.28 E	11,834,393.95
C.C.	N 7,015,227.01 E		11,834,239.76

Back = N 43° 51' 04.33" E
Ahead = N 15° 29' 23.27" E
Chord Bear = N 29° 40' 13.80" E

==========
Ending chain AYR description

ENTRANCE *1

Beginning chain PE1 description
==========

Point PE10 N 7,015,603.31 E 11,833,769.06 Sta 1+00.00

Course from PE10 to PE11 N 43° 39' 45.33" E Dist 56.82

Point PE11 N 7,015,644.42 E 11,833,808.29 Sta 1+56.82

==========
Ending chain PE1 description

ENTRANCE *2

Beginning chain PE2 description
==========

Point PE20 N 7,015,582.90 E 11,833,790.44 Sta 2+00.00

Course from PE20 to PC PE21 N 43° 40' 28.87" E Dist 28.67

Curve Data

Curve PE21			
P.I. Station	2+46.34 N	7,015,616.42 E	11,833,822.44
Delta =	61° 00' 12.87" (RT)		
Degree =	190° 59' 09.35"		
Tangent =	17.67		
Length =	31.94		
Radius =	30.00		
External =	4.82		
Long Chord =	30.45		
Mid. Ord. =	4.15		
P.C. Station	2+28.67 N	7,015,603.64 E	11,833,810.24
P.T. Station	2+60.61 N	7,015,611.94 E	11,833,839.54
C.C.	N 7,015,582.92 E		11,833,831.94

Back = N 43° 40' 28.87" E
Ahead = S 75° 19' 18.26" E
Chord Bear = N 74° 10' 35.30" E

==========
Ending chain PE2 description

ENTRANCE *3

Beginning chain PE3 description
==========

Point PE30 N 7,015,545.60 E 11,833,829.50 Sta 3+00.00

Course from PE30 to PC PE31 N 43° 40' 28.87" E Dist 26.59

Curve Data

Curve PE31			
P.I. Station	3+40.90 N	7,015,575.21 E	11,833,857.73
Delta =	15° 31' 13.64" (LT)		
Degree =	54° 34' 02.67"		
Tangent =	14.31		
Length =	28.44		
Radius =	105.00		
External =	0.97		
Long Chord =	28.36		
Mid. Ord. =	0.96		
P.C. Station	3+26.59 N	7,015,564.84 E	11,833,847.87
P.T. Station	3+55.04 N	7,015,587.84 E	11,833,864.45
C.C.	N 7,015,637.18 E		11,833,771.76

Back = N 43° 32' 49.00" E
Ahead = N 28° 01' 35.36" E
Chord Bear = N 35° 47' 12.18" E

==========
Ending chain PE3 description

ENTRANCE *4

Beginning chain PE4 description
==========

Point PE40 N 7,015,485.66 E 11,833,892.29 Sta 4+00.00

Course from PE40 to PE41 N 43° 40' 28.87" E Dist 56.22

Point PE41 N 7,015,526.32 E 11,833,931.11 Sta 4+56.22

==========
Ending chain PE4 description

ENTRANCE *5

Beginning chain PE5 description
==========

Point PE50 N 7,015,438.09 E 11,833,942.11 Sta 5+00.00

Course from PE50 to PE51 N 43° 40' 28.69" E Dist 54.60

Point PE51 N 7,015,477.58 E 11,833,979.81 Sta 5+54.60

==========
Ending chain PE5 description

ENTRANCE *6

Beginning chain PE6 description
==========

Point PE60 N 7,015,413.84 E 11,833,967.36 Sta 6+00.00

Course from PE60 to PE61 N 43° 43' 54.23" E Dist 54.63

Point PE61 N 7,015,453.32 E 11,834,005.12 Sta 6+54.63

==========
Ending chain PE6 description

ENTRANCE *7

Beginning chain PE7 description
==========

Point PE70 N 7,015,313.29 E 11,834,072.82 Sta 7+00.00

Course from PE70 to PC PE71 N 43° 32' 49.00" E Dist 27.80

Curve Data

Curve PE71			
P.I. Station	7+41.93 N	7,015,343.68 E	11,834,101.71
Delta =	19° 18' 09.15" (RT)		
Degree =	68° 57' 46.88"		
Tangent =	14.13		
Length =	27.99		
Radius =	83.08		
External =	1.19		
Long Chord =	27.86		
Mid. Ord. =	1.18		
P.C. Station	7+27.80 N	7,015,333.44 E	11,834,091.98
P.T. Station	7+55.79 N	7,015,350.12 E	11,834,114.28
C.C.	N 7,015,276.20 E		11,834,152.20

Back = N 43° 32' 49.00" E
Ahead = N 62° 50' 58.15" E
Chord Bear = N 53° 11' 53.57" E

==========
Ending chain PE7 description

ENTRANCE *8

Beginning chain PE8 description
==========

Point PE80 N 7,015,292.86 E 11,834,094.22 Sta 8+00.00

Course from PE80 to PC PE81 N 43° 32' 49.00" E Dist 26.67

Curve Data

Curve PE81			
P.I. Station	8+41.47 N	7,015,322.92 E	11,834,122.78
Delta =	4° 37' 07.21" (LT)		
Degree =	15° 37' 14.74"		
Tangent =	14.79		
Length =	29.57		
Radius =	366.79		
External =	0.30		
Long Chord =	29.56		
Mid. Ord. =	0.30		
P.C. Station	8+26.67 N	7,015,312.20 E	11,834,112.59
P.T. Station	8+56.24 N	7,015,334.43 E	11,834,132.08
C.C.	N 7,015,564.90 E		11,833,846.74

Back = N 43° 32' 49.00" E
Ahead = N 38° 55' 41.79" E
Chord Bear = N 41° 14' 15.40" E

==========
Ending chain PE8 description

ENTRANCE *9

Beginning chain PE9 description
==========

Point PE90 N 7,015,232.99 E 11,834,156.92 Sta 9+00.00

Course from PE90 to PE91 N 43° 32' 49.00" E Dist 59.20

Point PE91 N 7,015,275.90 E 11,834,197.71 Sta 9+59.20

==========
Ending chain PE9 description

ENTRANCE *10

Beginning chain PE10 description
==========

Point PE01 N 7,015,176.17 E 11,834,220.14 Sta 10+00.00

Course from PE01 to PE02 N 39° 34' 28.71" E Dist 19.01

Point PE02 N 7,015,190.82 E 11,834,232.25 Sta 10+19.01

Course from PE02 to PE03 N 43° 28' 54.24" E Dist 35.70

Point PE03 N 7,015,216.73 E 11,834,256.82 Sta 10+54.71

==========
Ending chain PE10 description

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

TRANSPORTATION MANAGEMENT PLAN

COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

Tyler Long 2022.07.13 08:12:52 -04'00'

Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	ID(1)

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

PROJECT DESCRIPTION

THIS TASK CONSISTS OF THE DESIGN OF PEDESTRIAN IMPROVEMENTS ALONG PARK STREET NE BETWEEN ALBEA COURT NE AND AYR HILL AVENUE NE. THE PROPOSED IMPROVEMENTS INCLUDE: CURB, GUTTER, BUFFERED SIDEWALK, AND PRIVATE ENTRANCES, AS WELL AS UPGRADE TO THE EXISTING CURB RAMP AT THE INTERSECTION WITH AYR HILL AVENUE.

WITHIN THE PROJECT LIMITS, PARK STREET NE IS AN URBAN LOCAL ROADWAY WITH A POSTED SPEED LIMIT OF 25 MPH. IN THE PROJECT AREA, PARK STREET NE HAS ONE NORTHBOUND LANE AND ONE SOUTHBOUND LANE. TRAVELERS PRIMARILY INCLUDE COMMUTERS, RESIDENTS, AND LOCAL CONSUMER TRAFFIC. IMPROVEMENTS WILL OCCUR ADJACENT TO THE NORTHBOUND LANE OF PARK STREET NE AND ALONG THE FRONTAGE OF ADJACENT PROPERTIES. THE TRANSPORTATION MANAGEMENT PLAN SHALL BE UTILIZED TO MAINTAIN A MINIMUM OF ONE TRAFFIC LANE IN EACH DIRECTION.

ALLOWABLE HOURS FOR CLOSURES

THE CONTRACTOR SHOULD MAKE EVERY EFFORT TO MAINTAIN THE EXISTING TRAVEL LANES OPEN TO TRAFFIC AT ALL TIMES. LANE CLOSURES FOR CONSTRUCTION SHALL BE PERMITTED DURING THE FOLLOWING HOURS:

PARK STREET NE (ROUTE 6676) URBAN LOCAL STREET	
	SINGLE LANE CLOSURES* OR SHOULDER
MONDAY TO THURSDAY	9:00AM TO 3:30PM
	9:00PM TO 5:00AM
FRIDAY	9:00AM TO 2:00PM
FRIDAY TO SATURDAY	10:00PM TO 9:00AM
SATURDAY TO SUNDAY	9:00PM TO 9:00AM
SUNDAY TO MONDAY	10:00PM TO 5:00AM

* SINGLE-LANE CLOSURES ARE ONLY PERMITTED FOR MULTIPLE-LANE ROADWAYS.

EXCEPT AS NECESSARY TO MAINTAIN TRAFFIC, WORK SHALL NOT BE PERFORMED ON THE FOLLOWING HOLIDAYS WITHOUT THE APPROVAL OF THE TOWN:
NEW YEAR'S DAY, MARTIN LUTHER KING, JR. DAY, LEE JACKSON DAY, PRESIDENTS DAY, EASTER, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, COLUMBUS DAY, VETERANS DAY, THANKSGIVING DAY, AND CHRISTMAS DAY. LANE CLOSURES WILL NOT BE PERMITTED FROM NOON THE DAY BEFORE A HOLIDAY UNTIL NOON THE DAY AFTER A HOLIDAY UNLESS OTHERWISE APPROVED BY THE ENGINEER. WHEN A HOLIDAY FALLS ON A FRIDAY, LANE CLOSURES ARE NOT PERMITTED FROM NOON THURSDAY UNTIL NOON ON MONDAY. WHEN THE HOLIDAY FALLS ON MONDAY, LANE CLOSURES ARE NOT PERMITTED FROM NOON FRIDAY UNTIL NOON ON TUESDAY. ADDITIONAL STATE HOLIDAYS MAY BE ADDED TO THIS LIST AT THE DIRECTION OF THE ENGINEER.

ACCESS TO AND FROM ALL ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

THE CONTRACTOR SHALL CONSULT WITH THE TOWN FOR ANY PLANNED CLOSURE SCENARIO NOT ANTICIPATED BY THIS TRANSPORTATION MANAGEMENT PLAN.

PUBLIC COMMUNICATIONS PLAN

THE CONTRACTOR SHALL SUBMIT A REQUEST FOR ALL LANE CLOSURES TO THE TOWN 10 DAYS IN ADVANCE OF THE CLOSURE. THE TOWN MAY COMMUNICATE WITH THE TOWN COUNCIL, SCHOOLS IN CLOSE PROXIMITY, EMERGENCY SERVICES, VDOT, AND THE TRAFFIC OPERATIONS CENTER, AS DETERMINED APPROPRIATE.

CONTRACTOR SHALL PROVIDE INTERMEDIATE FLAGGERS TO ALLOW ACCESS OUT OF DRIVEWAYS WITHIN WORKZONE.

SEQUENCE OF CONSTRUCTION

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.

THE CONTRACTOR SHALL FOLLOW THE VIRGINIA WORK AREA PROTECTION MANUAL (WAPM) TO CONSTRUCT THE CURB AND GUTTER, SIDEWALK, DRAINAGE STRUCTURES, PRIVATE ENTRANCE, AND PAVEMENT RESURFACING. INSTALLATION OF SIGNING FOR PROJECT LIMITS SHALL BE IN ACCORDANCE WITH FIGURE TTC-53.0 OF THE VIRGINIA WAPM. CONSTRUCTION MAY NOT BE SIMULTANEOUSLY PERFORMED ON BOTH SIDES OF TRAFFIC.

THIS WORK WILL REQUIRE A LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS (FIGURE TTC-23.1).

GENERAL NOTES

1. THE TMP FOR THIS PROJECT IS CATEGORIZED AS TYPE A, CATEGORY 1.
2. UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PLAN AND PROSECUTE THE WORK IN ACCORDANCE WITH THE WAPM AND THIS TRANSPORTATION MANAGEMENT PLAN.
3. IF THE CONTRACTOR DEVIATES FROM THE APPROVED TMP/MOT PLAN, THEY ARE REQUIRED TO SUBMIT A NEW TMP/MOT PLAN FOR REVIEW AND APPROVAL. WORK WILL ONLY BE APPROVED UNDER THE APPROVED TMP/MOT PLAN UNTIL THE NEW TMP/MOT PLAN IS APPROVED.
4. THE TMP/MOT, DURING CONSTRUCTION, SHALL BE IN ACCORDANCE WITH THE VDOT ROAD AND BRIDGE SPECIFICATIONS DATED 2020, THE LATEST REVISION TO THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL DATED NOVEMBER 2020, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION, AND THE 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, REVISION 1 DATED SEPTEMBER 2013.
5. FOR DETAILS OF PERMANENT CONSTRUCTION, REFER TO THE CONSTRUCTION PLANS (SHEETS 3-4).
6. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO THE TOWN FOR APPROVAL. THE CONTRACTOR SHOULD REFER TO VIRGINIA'S WORK AREA PROTECTION MANUAL, SPECIFICALLY THE FOLLOWING STANDARDS:

   TTC-23.1 - LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS

   TTC-53.0 - SIGNING FOR PROJECT LIMITS

7. A MINIMUM OF ONE TRAFFIC LANE IN EACH DIRECTION ON PARK STREET NE SHALL BE OPEN TO TRAFFIC AT ALL TIMES.
8. PAVEMENT MARKINGS IN CONFLICT WITH THE LANE CONFIGURATIONS DURING CONSTRUCTION SHALL BE COVERED WITH NON-REFLECTIVE REMOVABLE BLACK TAPE, AND RESTRIPED AS NECESSARY.
9. CONTRACTOR SHALL MAINTAIN SAFE PASSAGE FOR PEDESTRIANS AND BICYCLISTS DURING CONSTRUCTION WHERE EXISTING FACILITIES ARE PRESENT.
10. THE CONTRACTOR SHALL MAINTAIN ALL SIGNAGE WITHIN THE LIMITS OF CONSTRUCTION, SHOWN OR OTHERWISE, UNLESS DIRECTED BY THE ENGINEER. IF REMOVAL IS ALLOWED, CONTRACTOR SHALL STORE THE SIGNS PER VDOT STANDARDS, AND IF DIRECTED, REPLACE THEM AT THE COMPLETION OF THE PROJECT.
11. CONTRACTOR IS TO ENSURE POSITIVE DRAINAGE FOR THE DURATION OF THE PROJECT. ADDITIONAL TEMPORARY MEASURES MAY BE NEEDED TO FACILITATE PROPER POSITIVE DRAINAGE.
12. THE CONTRACTOR SHALL SCHEDULE ALL PHASES OF CONSTRUCTION IN SUCH A MANNER THAT WATER, SEWER, CABLE, POWER, AND ANY OVERHANGING UTILITY AND ANY UNDERGROUND UTILITY SERVICES WILL NOT BE INTERRUPTED. THE COST OF ANY TEMPORARY CONNECTION, IN PART OR WHOLE, SHALL BE INCIDENTAL TO THE UTILITY RELOCATION/CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE HIS UTILITY ADJUSTMENTS/RELOCATION ACTIVITIES WITH THE OWNER OF THE UTILITY.
13. DISPOSAL SITE AND STAGING AREA LOCATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO WORK SHALL BE PERFORMED UNTIL SUCH SITES HAVE BEEN ACCEPTED BY THE ENGINEER.
14. TEMPORARY LANE WIDTHS SHALL NOT BE LESS THAN 11 FEET.
15. ACCESS TO TEMPORARY BUS STOPS AND REASONABLE SAFE TRAVEL ACROSS INTERSECTIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE CONSIDERED DURING CONSTRUCTION PER THE 2009 MUTCD AND THE VIRGINIA WORK AREA PROTECTION MANUAL DATED JULY 2011, REVISION 1, DATED APRIL 2015.
16. EQUIPMENT AND/OR MATERIALS SHALL NOT BE STORED WITHIN THE ESTABLISHED CLEAR ZONE OF EITHER THE TRAVEL LANES, AND/OR THE DEFLECTION ZONE OF PHYSICAL BARRIERS USED DURING CONSTRUCTION.
17. ALL TRAFFIC CONTROL DEVICES AND SIGNS NECESSARY FOR MAINTENANCE OF TRAFFIC ARE TO BE INSTALLED, MAINTAINED AND REMOVED BY THE CONTRACTOR.
18. WHEN STATE POLICE PRESENCE IS REQUIRED FOR A LANE CLOSURE OPERATION, THE ENGINEER SHALL CONTACT THE VIRGINIA STATE POLICE DIVISION SEVEN HEADQUARTERS, 4977 ALLIANCE DRIVE, FAIRFAX, VIRGINIA, 22030. TELEPHONE 703-803-2660 TO REQUEST STATE POLICE SUPPORT AND GIVE THE STATE POLICE A MINIMUM OF 5 DAYS ADVANCE NOTICE. THE ENGINEER SHALL NOTIFY THE STATE POLICE OF ANY CANCELLATION AT LEAST 24 HOURS IN ADVANCE TO AVOID ADDITIONAL CHARGES. THE COST OF STATE POLICE SUPPORT SHALL BE INCLUDED IN THE COST OF PROJECT MOBILIZATION.

Commonwealth of Virginia VDOT
Virginia Department of Transportation
VERIFICATION OF COMPLETION OF VDOT ADVANCED WORK ZONE TRAFFIC CONTROL TRAINING AND FLAGGER CERTIFICATION

This is to verify that Tyler L. Long has successfully completed training and an examination by the Department on the proper practices and methods for the installation, maintenance, removal of temporary traffic control devices and flagging operations.

Expiration Date: 6/30/2025
Verification Number: 061821204

R. J. Khoury
State Traffic Engineer

	PROJECT	SHEET NO.
	ENI7-153-114	ID(1)

PROJECT MANAGER MICHAEL J GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES AUGUST 2018

TRANSPORTATION MANAGEMENT PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		EN17-153-114	ID(2)

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

Typical Traffic Control
Signing for Project Limits
(Figure TTC-53.0)
NOTES

Support:

1. This layout depicts signing requirements for notifying motorist when they are entering and exiting a potential construction/maintenance area with a duration equal to or greater than 60 days.

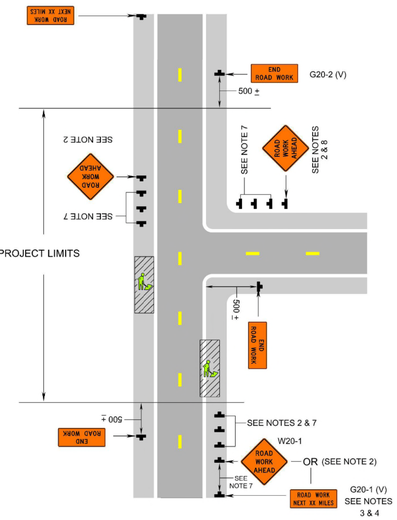
Standard:

2. **The ROAD WORK AHEAD (W20-1) sign or the ROAD WORK NEXT XX MILES (G20-1 (V)) sign shall be placed far enough in advance of the project limits so that other warning signs in a series may be adequately placed prior to the condition they are warning about.**
3. **The ROAD WORK NEXT XX MILES sign shall be used for projects with activity areas greater than 2 miles in length, or when multiple work activities (such as pavement patching, guardrail installations, shoulder restoration, etc.) occur along a highway.**
4. **The distance displayed on the ROAD WORK NEXT XX MILES sign shall be stated to the nearest whole mile from the point of installation to the END ROAD WORK (G20-2 (V)) sign.**
5. **On divided highways having a median wider than 8', right and left sign assemblies shall be required.**

Guidance:

6. *For projects with activity areas 2 miles or less in length, the ROAD WORK AHEAD sign should be the first sign motorist encounter.*
7. *Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.*
8. *All connections within the project limits should be identified with signs indicating to motorist they are entering or exiting a potential construction/maintenance area.*

Signing for Project Limits
(Figure TTC-53.0)



Typical Traffic Control
Lane Closure on a Two-Lane Roadway Using Flaggers
(Figure TTC-23.2)
NOTES

Guidance:

1. *Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, and 500'-800' where the posted speed limit is greater than 45 mph.*
2. *Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the flagger station and transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. Generally speaking, motorists should have a clear line of sight from the graphic flagger symbol sign to the flagger.*
3. *To maintain efficient traffic flow in a flagging operation on a two-lane roadway, the maximum time motorists should be stopped at a flagger station is 8 minutes for high volume roadways (average daily traffic of 500 or more vehicles per day) to a maximum of 12 minutes for low volume roadways (less than 500 vehicles per day). For additional information see Section 6E.07.[2]*

Standard:

4. **Portable Temporary Rumble Strips (PTRS) shall be used as noted in Section 6F.99.[2]**
5. **Flagging stations shall be located far enough in advance of the work space to permit approaching traffic to reduce speed and/or stop before passing the work space and allow sufficient distance for departing traffic in the left lane to return to the right lane before reaching opposing traffic (see Table 6H-3 on Page 6H-5).**
6. **All flaggers shall be state certified and have their certification card in their possession when performing flagging duties (see Section 6E.01, Qualifications for Flaggers).**
7. **Cone spacing shall be based on the posted speed and the values in Table 6H-4 on Page 6H-6.[1]**
8. **A shadow vehicle with at least one high intensity amber rotating, flashing, or[1] oscillating light shall be parked 80'-120' in advance of the first work crew.**

Option:

8. A SLOW (W21-V10) sign[2] may be required in this area to give advance warning of the operation ahead by slowing approaching traffic prior to reaching the flagger station or queued traffic.

Guidance:

9. *If the queue of traffic reaches the BE PREPARED TO STOP (W3-4) sign then the signs and if used the* PTRS[1] *should be readjusted at greater distances.*
10. *When a highway-rail crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the highway-rail grade crossing, the temporary traffic control zone should be extended so that the transition area precedes the highway-rail crossing (see Figure TTC-56 for additional information on highway-rail crossings).*

Standard:

11. **At night, flagger stations shall be illuminated, except in emergencies (see Section 6E.08).**

Option:

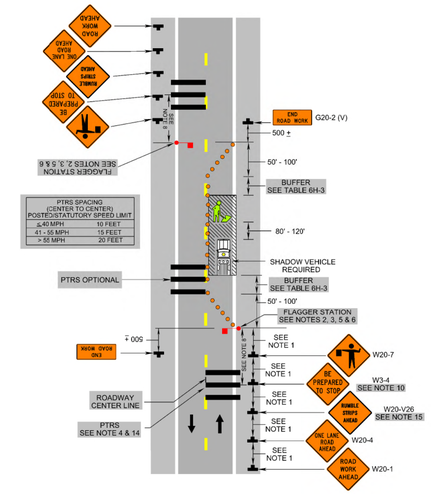
12. Cones may be eliminated when using a pilot vehicle operation or when the total roadway width is 20 feet or less.
13. For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6F).

Standard:[1]

14. **When used[2], three portable temporary rumble (PTRS) strips shall be installed across the entire travel lane adjacent to the BE PREPARED TO STOP (W3-4) sign. The portable temporary rumble strips shall be monitored and adjusted as necessary during the work shift to ensure proper placement on the roadway. When the PTRS are installed, the RUMBLE STRIPS AHEAD (W20-V26) sign shall also be utilized.**

1: Revision 1 – 4/1/2015
2: Revision 2 – 9/1/2019

Lane Closure on a Two-Lane Roadway Using Flaggers
(Figure TTC-23.2)



1: Revision 1 – 4/1/2015
2: Revision 2 – 9/1/2019
3: Revision 2.1 – 11/1/2020

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

TRANSPORTATION MANAGEMENT PLAN

NOT TO SCALE

COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

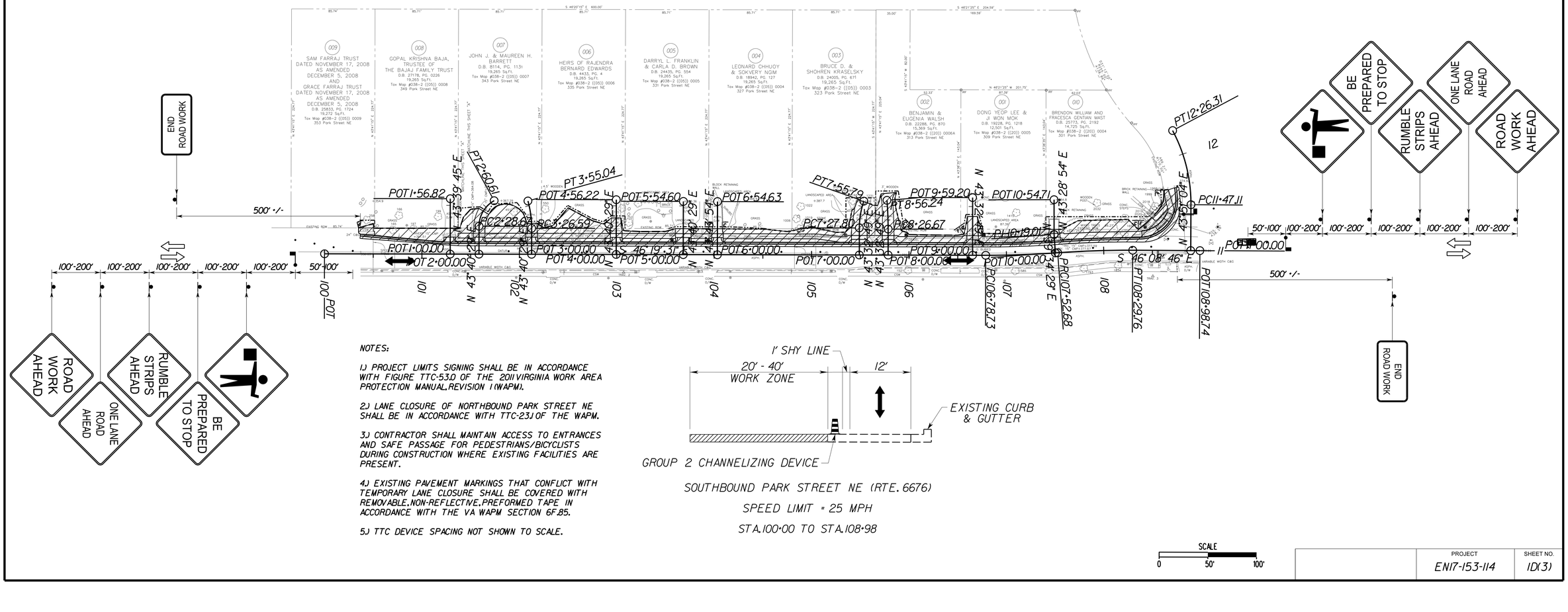
Tyler Long 2022.07.13 08:11:12 -04'00'

Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		EN17-153-114	ID(3)

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

- WORK ZONE AREA
- GROUP 2 CHANNELIZING DEVICE
- SIGN
- EXISTING DIRECTION OF TRAVEL
- TEMPORARY DIRECTION OF TRAVEL
- WORK VEHICLE
- FLAGGER SERVICE



NOTES:

1) PROJECT LIMITS SIGNING SHALL BE IN ACCORDANCE WITH FIGURE TTC-53.0 OF THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL, REVISION 1 (WAPM).

2) LANE CLOSURE OF NORTHBOUND PARK STREET NE SHALL BE IN ACCORDANCE WITH TTC-23J OF THE WAPM.

3) CONTRACTOR SHALL MAINTAIN ACCESS TO ENTRANCES AND SAFE PASSAGE FOR PEDESTRIANS/BICYCLISTS DURING CONSTRUCTION WHERE EXISTING FACILITIES ARE PRESENT.

4) EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY LANE CLOSURE SHALL BE COVERED WITH REMOVABLE, NON-REFLECTIVE, PREFORMED TAPE IN ACCORDANCE WITH THE VA WAPM SECTION 6F.85.

5) TTC DEVICE SPACING NOT SHOWN TO SCALE.

GROUP 2 CHANNELIZING DEVICE

SOUTHBOUND PARK STREET NE (RTE. 6676)

SPEED LIMIT = 25 MPH

STA. 100+00 TO STA. 108+98

SCALE 0 50' 100'

PROJECT	SHEET NO.
EN17-153-114	ID(3)

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

GENERAL NOTES & TYPICAL DETAILS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	2

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

COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

Tyler Long 2022.07.13 08:18:46 -04'00'
Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

GRADING GENERAL NOTES

1. Earthwork quantities on this project are based on anticipated settlement and may require adjusting during construction.
2. The cost of removal of all existing concrete items located in the area to be graded, including, but not limited to the following, shall be included in the price bid for regular excavation: curb and gutter, concrete aprons, retaining walls, sidewalk

DRAINAGE GENERAL NOTES

1. When Mod. CG-6 (see Town's detail this sheet) is specified on a radius (such as at a street intersection), the Town may approve a change in the cross slope of the gutter to facilitate proper drainage.

PAVEMENT GENERAL NOTES

1. The pavement materials on this project will be paid for on a tonnage 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 the theoretical maximum density.

INCIDENTALS GENERAL NOTES

1. Certain trees shall be preserved as noted on plans or as directed by the Town.
2. When standard slope roundoffs would damage trees, bushes, or other desirable vegetation, they shall be omitted when so ordered by the Town.
3. Clearing and grubbing shall be confined to those areas needed for construction. No trees or shrubs in ungraded areas shall be cut without the permission of the Town.
4. The following outside sources, under contract with the Town, have provided information on this project:
   - Roadway Design — Whitman, Requardt & Associates, LLP
   - Survey — Rice Associates
   - Utility Designation — Rice Associates

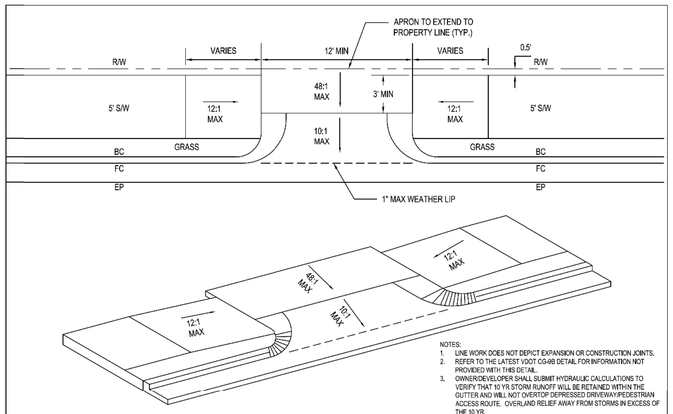
   If questions arise during construction, please contact the Town. DO NOT CONTACT THE OUTSIDE SOURCES.
5. All electronic plan assemblies will include the construction plans in one format: .pdf files. Only the .pdf files will be considered as part of the official plan assembly.

UTILITIES GENERAL NOTES

1. The utility information shown on these plans is taken from information provided by an underground utility designating and locating company and in some cases, from information received from the utility companies. The Town does not guartantee that the utility information shown on the plans is complete or accurate. The Contractor must verify the utility locations prior to construction.
2. All existing underground utilities shall be marked in the field by Miss Utility prior to construction. The Contractor shall be responsible for scheduling the field marking of utilities with Miss Utility.
   Miss Utility 1-800-552-7011 or 811 VA811.com
3. All existing underground utilities shall be physically located by the Contractor prior to the beginning of any construction in the vicinity of these utilities.

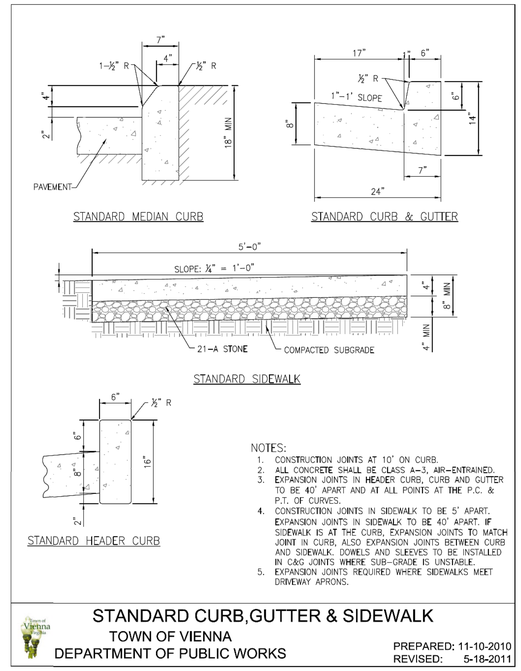
TOWN OF VIENNA GENERAL NOTES

1. A Pre-Construction meeting must be held prior to the start of construction. The Contractor shall contact the Town to schedule the Pre-Construction meeting.
2. All construction generated debris must be hauled away by the Contractor.
3. Prior to the removal of any Town trees (trees within the Right of Way), the Contractor shall contact the Town arborist to coordinate having the Town arborist onside during all Town tree removal.
4. Tree protection for any Town tree, if shown on the plan, must be installed prior to any work.
5. Clearing, grubbing, tree removal, root pruning and tree protection shall be in accordance with VDOT Road and Bridge Specifications and the Town's PFM and Tree Preservation and Planting Guide. The Contractor shall coordinate with the Town and property owners as directed by the Town prior to commencing any of these activities.

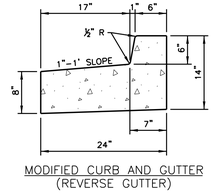


MODIFIED VDOT CG-9B APRON
TOWN OF VIENNA, VIRGINIA
DEPARTMENT OF PUBLIC WORKS

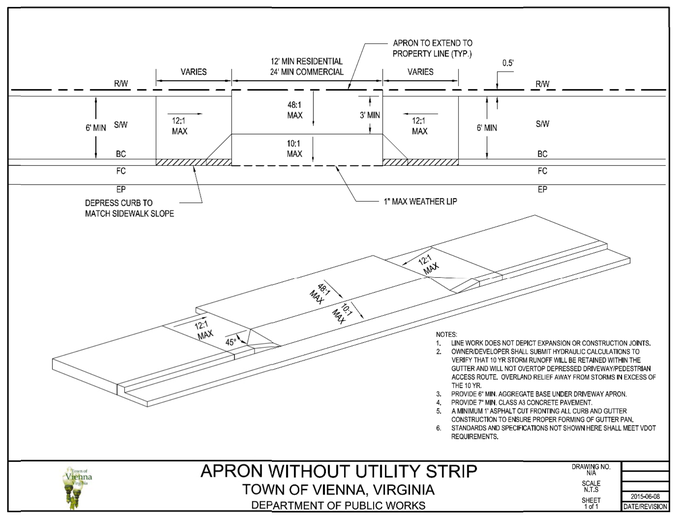
DRAWING NO. N/A | SCALE N.T.S | SHEET 1 of 1 | 2014-12-30 DATE/REVISION



STANDARD CURB, GUTTER & SIDEWALK
TOWN OF VIENNA
DEPARTMENT OF PUBLIC WORKS
PREPARED: 11-10-2010
REVISED: 5-18-2011



MODIFIED CURB AND GUTTER
(REVERSE GUTTER)

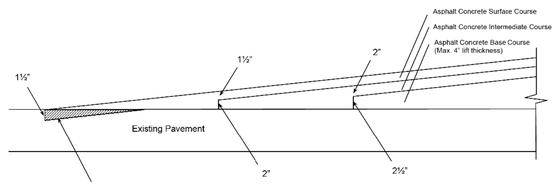


APRON WITHOUT UTILITY STRIP
TOWN OF VIENNA, VIRGINIA
DEPARTMENT OF PUBLIC WORKS

DRAWING NO. N/A | SCALE N.T.S | SHEET 1 of 1 | 2015-06-08 DATE/REVISION

Virginia Department of Transportation
NOVA District Materials Section

Detail: Asphalt Concrete Build-up



Not to Scale

Q:\nva\Typical Sections\Asphalt Concrete Build-up.doc

	PROJECT	SHEET NO.
	ENI7-153-114	2

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

TYPICAL SECTIONS
NOT TO SCALE

COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

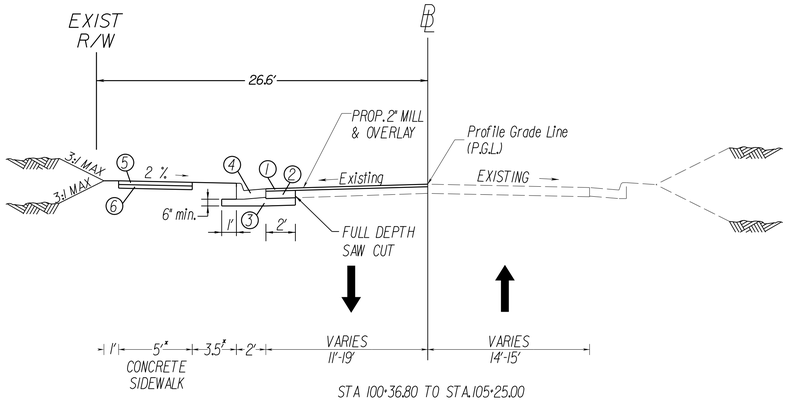
Tyler Long 2022.07.13 08:10:25 -04'00'

Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	2A

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

PARK STREET N.E.

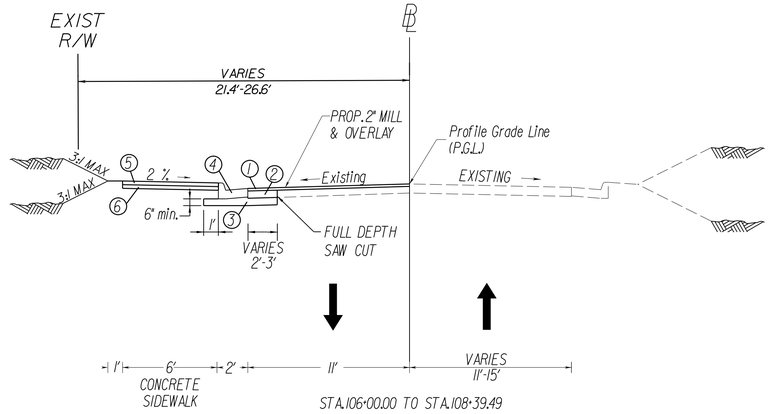


STA 100+36.80 TO STA 105+25.00

* SIDEWALK TRANSITIONS FROM 6' TO 5' WIDE STA 100+36.80 TO STA 100+53.97
BUFFER STRIP TRANSITIONS FROM 0' TO 3.5' STA 100+51.24 TO STA 100+83.88

* SIDEWALK TRANSITIONS FROM 5' TO 6' WIDE AND BUFFER STRIP FROM 3' TO 0' STA 104+74.96 TO STA 105+32.96

PARK STREET N.E.



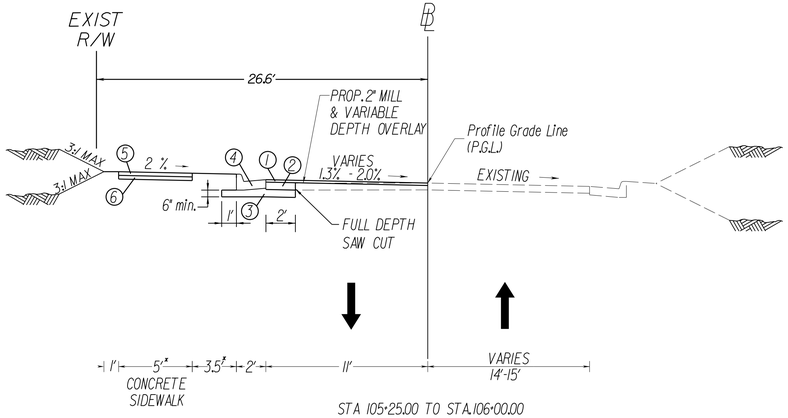
STA 106+00.00 TO STA 108+39.49

Notes:

1.) For cross slopes, see cross sections.

2.) All pavement widening shall be performed in accordance with standard WP-2.

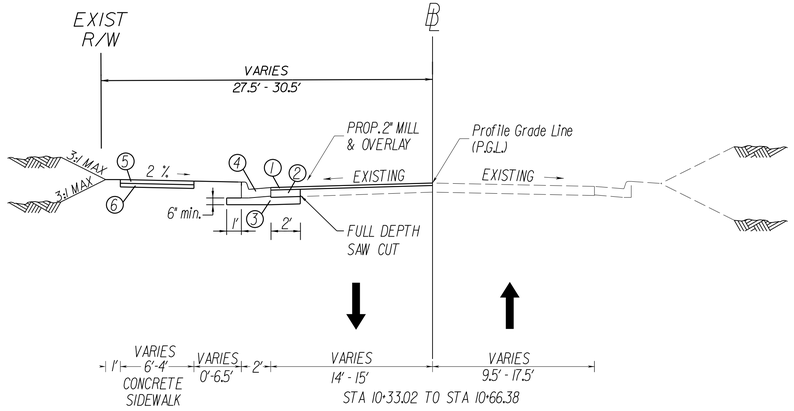
PARK STREET N.E.



STA 105+25.00 TO STA 106+00.00

* SIDEWALK TRANSITIONS FROM 5' TO 6' WIDE AND BUFFER STRIP FROM 3' TO 0' STA 104+74.96 TO STA 105+32.96

AYR HILL AVE N.E.



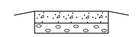
STA 10+33.02 TO STA 10+66.38

PAVEMENT SECTION

1. SURFACE - 2" ASPHALT CONCRETE, TYPE SM-9.5D ESTIMATED @ 182 LBS/SY
2. BASE - 6.5" ASPHALT CONCRETE TYPE BM-25.0A
3. MIN. 8" AGGREGATE BASE MATERIAL TYPE I SIZE 21B, OR EXTENDED TO THE BOTTOM OF EXISTING AGGREGATE, WHICHEVER IS GREATER
4. TOV STD. CURB AND GUTTER
5. 4" HYDRAULIC CEMENT CONCRETE CLASS A3 SIDEWALK REQ'D
6. 4" AGGREGATE BASE MATERIAL SIZE 21B

PRIVATE ENTRANCES

TYPE II
Concrete



Concrete Entrance Pavement
7" HES
4" Aggr. Base Mat'l. Ty. I
No. 21A or 21B

TYPE III
Asphalt

Asphalt Conc. Type
SM-9.5A or SM-9.5D @ 220 Lbs. per S.Y.
4" Aggr. Base Mat'l. Ty. I
No. 21A or 21B

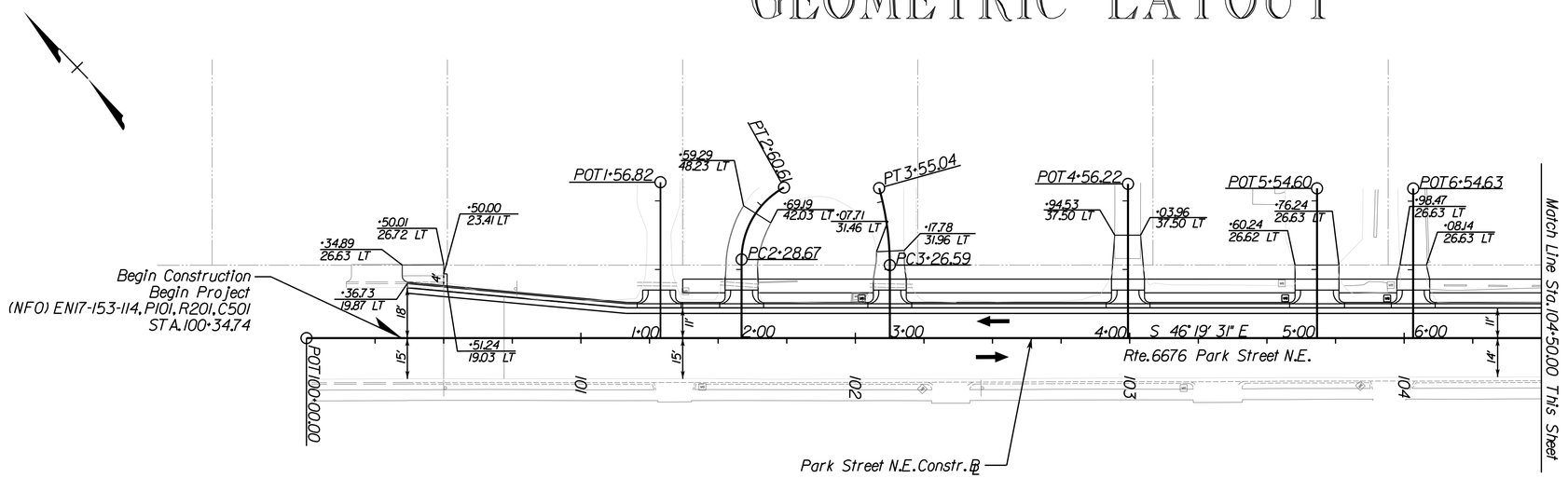
NOT TO SCALE

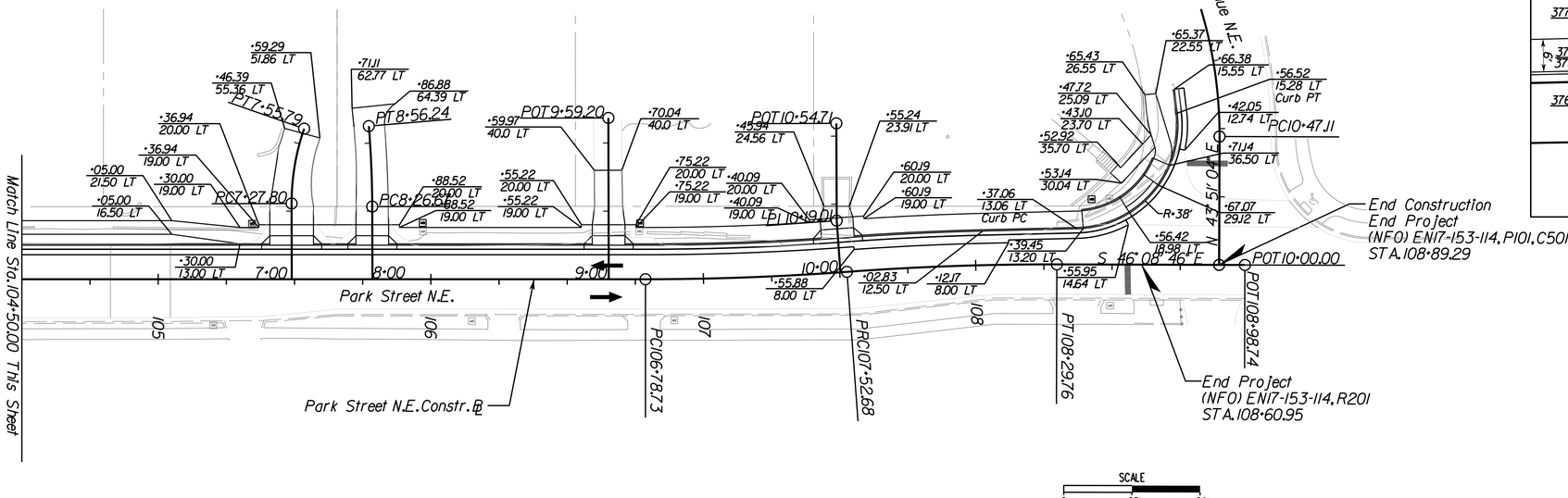
The type of entrance (II or III) to be constructed will be determined by the existing condition at the time of construction.

	PROJECT	SHEET NO.
	ENI7-153-114	2A

PROJECT MANAGER MICHAEL J GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

GEOMETRIC LAYOUT

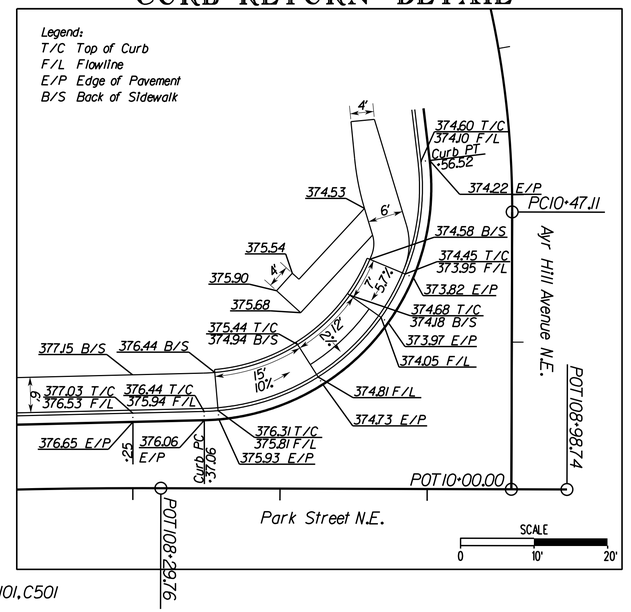




SCALE
0 25' 50'

CURB RETURN DETAIL

Legend:
T/C Top of Curb
F/L Flowline
E/P Edge of Pavement
B/S Back of Sidewalk



COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

Tyler Long 2022.09.08 10:52:17 -04'00'

Whitman, Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	2B

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

	PROJECT	SHEET NO.
	ENI7-153-114	2B

PROJECT MANAGER MICHAEL J GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

STORM DRAINAGE NARRATIVE AND COMPUTATIONS

COMMONWEALTH OF VIRGINIA
DAVID SCOTT GERTZ
Lic. No. 018547
PROFESSIONAL ENGINEER

David Gertz
2022.07.13 10:20:46 -04'00'

Whitman, Requardt & Associates
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		000EN17-153-114	2C

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

PARK STREET DRAINAGE/SWM NARRATIVE

Introduction:
The purpose of this project is to provide pedestrian safety improvements. The project proposes construction of curb and gutter and a new 5-foot wide concrete sidewalk along the north side of Park Street NE between Albea Court NE and Ayr Hill Avenue NE. The length of the project is approximately 850 linear feet.

This project is located in the Town of Vienna. All roadways and features are maintained by the Town of Vienna.

Under existing conditions, the drainage within the project limits is conveyed through existing roadside ditches and driveway culverts on the north side of Park Street and there is existing curb and gutter on the south side of Park Street. The high point is located at Station 105+75. The runoff draining to the west of the high point flows down Park Street. At Station 100+50, existing curb and gutter begins on the north side of Park Street and then continues to the west. For the runoff draining to the east of the high point, on the north side of Park Street, the runoff drains into a mild depressed concrete apron across Ayr Hill Avenue. The runoff contained within the concrete apron flows to an existing curb inlet (EX. 2) which is located just after the Ayr Hill Avenue and Park Street intersection. Additionally, any runoff that flows to the south side of Park Street will be captured by the curb and gutter and flows into an existing inlet (EX.1).

Under the proposed conditions, the high point remains at the same location. Due to the project improvements, there will be a slight increase in flow to the existing inlets (EX. 1 and EX. 2) and to the existing curb and gutter.

Drainage Design Criteria:
Park Street is an urban local street road with a design speed of 20 mph. The curb inlet design requirements are based on a rainfall intensity of 4 in/hr. The project is on grade. The maximum allowable spread is half of the travel lane plus the gutter width. The allowable spread is variable because the travel lane is not a consistent width. The minimum spread for this project is 6.92 feet for this project (17"gutter pan + one-half of the 11' travel lane).

Stormwater Management Analysis:
The project disturbs 0.50 acres. This project increases the impervious area by 0.06 acres. A limits of disturbance map is shown on Sheet 2D.
This project is not located within a Chesapeake Bay preservation area. Since this project disturbs less than 1 acre it is not subject to a VSMP permit.
As a result, water quality and quantity are not required for this project.

Storm Drainage Computations:
This project does not propose any additional storm drain inlets or pipes. Spread Computations have been provided for the existing and proposed conditions.
It is our professional opinion that this project does not have a negative impact on the curb and gutter section noted as "Spread A" and the existing inlets EX. 1 and 2.

Erosion and Sediment Control:
The erosion and sediment control requirements are satisfied by temporary silt fence.

LD-204 (Rev. 6-85)	STORMWATER INLET COMPUTATION SHEET	DATE: OCTOBER 2020	DESIGNED BY: KE
	RTE: Park Street NE / PROJ: Town of Vienna-Park Street		CHECKED BY: DSG

INLET																									SAG INLETS ONLY				
NUMBER	TYPE	LENGTH (FT)	STATION	DRAINAGE AREA (AC)	C	CA	sum CA	I (IN/HR)	Q INCR (CFS)	Qb CARRYOVER (CFS)	Q_T GUTTER FLOW	S, GUTTER SLOPE (FT/FT)	S_x, CROSS SLOPE (FT/FT)	T, SPREAD (FT)	W (FT)	W/T	S_w (FT/FT)	S_w/S_x	E_o (App. 9C-8)	a = 12W(S_w-S_x) + Loc Dep	S'_w = a/(12W)	$S_e = S_x+S'_w E_{o)}$ (FT/FT)	COMPUTED LENGTH, Lt, (FT) (App. 9C-17)	L, SPECIFIED LENGTH (FT)	L/LT	E (App. 9C-18)	Q_i, INTERCEPTED (CFS)	Q_b, CARRYOVER (CFS)	Flow Depth (ft)	d(FT)	h(FT)	d/h	T, SPREAD @ SAG (FT)	REMARKS
Park Street NE- AS SHOWN																																	
EXISTING CONDITIONS SPREAD A	C&G	N/A	101+00 LT	1.23	0.71	0.873	0.873	4.00	3.49		3.49	0.072	0.041	4.6	1.4	0.307	0.0833	2.03	0.69	2.120	0.125	0.127	19.7					3.49	0.25					OK
PROPOSED CONDITIONS SPREAD A	C&G	N/A	101+00 LT	1.24	0.72	0.887	0.887	4.00	3.55		3.55	0.073	0.041	4.6	1.4	0.306	0.0833	2.03	0.69	2.120	0.125	0.127	20.0					3.55	0.25					OK
EX.2- EXISTING CONDITIONS	EX DI	16.0	PARK STREET-LT	4.91	0.62	3.051	3.051	4.00	12.20		12.20	0.002	0.085	4.2	1.4	SUMP	0.0833	0.98	SUMP	1.372	0.081	SUMP	SUMP	16.00	SUMP	SUMP	SUMP	SUMP	0.36	0.361	0.29	1.48	4.24	OK
EX.2- PROPOSED CONDITIONS	EX DI	16.0	PARK STREET- LT	4.90	0.62	3.054	3.054	4.00	12.22		12.22	0.002	0.085	4.2	1.4	SUMP	0.0833	0.98	SUMP	1.372	0.081	SUMP	SUMP	16.00	SUMP	SUMP	SUMP	SUMP	0.36	0.361	0.29	1.48	4.25	OK
EX.1- EXISTING CONDITIONS	EX DI	4.67	PARK STREET-RT	0.23	0.85	0.195	0.195	4.00	0.78		0.78	0.037	0.063	2.3	1.4	0.627	0.0833	1.32	0.94	1.746	0.103	0.160	7.5	4.67	0.62	0.83	0.64	0.14	0.17					OK
EX.1- PROPOSED CONDITIONS	EX DI	4.67	PARK STREET-RT	0.24	0.85	0.204	0.204	4.00	0.82		0.82	0.037	0.063	2.3	1.4	0.616	0.0833	1.32	0.94	1.746	0.103	0.159	7.7	4.67	0.61	0.82	0.67	0.15	0.17					OK

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

LIMITS OF DISTURBANCE MAP

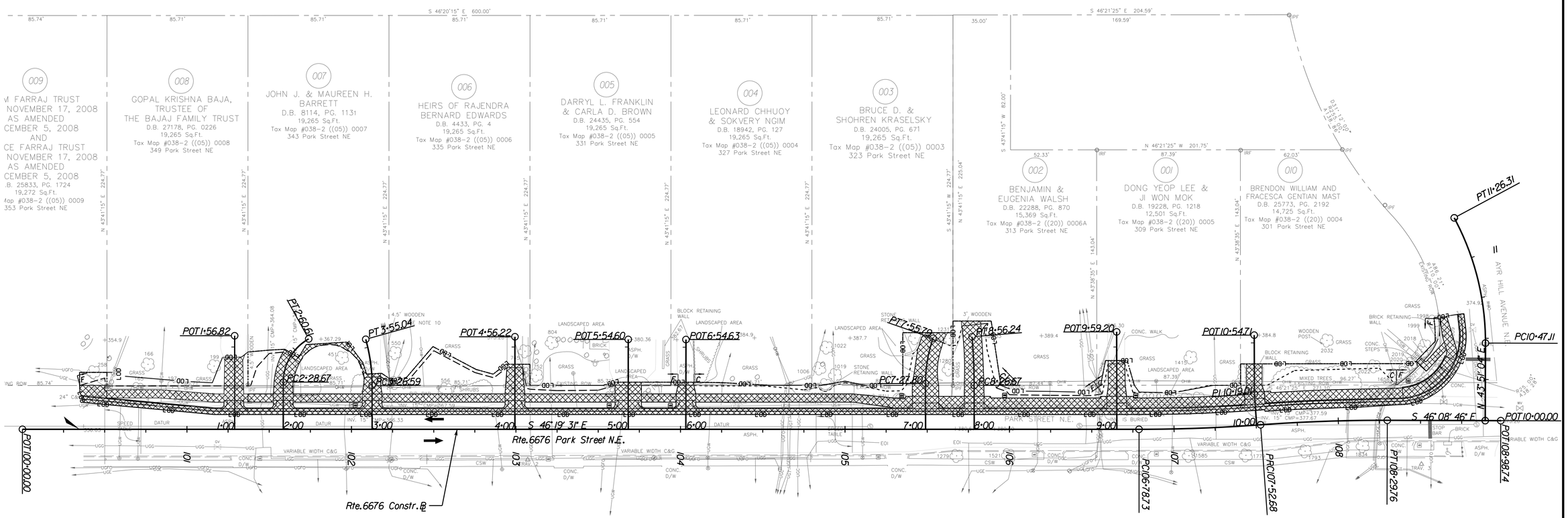
COMMONWEALTH OF VIRGINIA
DAVID SCOTT GERTZ
Lic. No. 018547
PROFESSIONAL ENGINEER

David Gertz
2022.07.13 10:21:28 -04'00'

Whitman, Requardt & Associates
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		EN17-153-114	2D

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



LOD — LIMITS OF DISTURBANCE (0.50 ACRES)
EXISTING IMPERVIOUS AREA (0.21 ACRES)
PROPOSED IMPERVIOUS AREA (0.27 ACRES)

	PROJECT	SHEET NO.
	EN17-153-114	2D

7/12/2022
4:44:25 PM

d45855003002e.dgn
Plotted By: tlong

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

COMMONWEALTH OF VIRGINIA
DAVID SCOTT GERTZ
Lic. No. 018547
PROFESSIONAL ENGINEER

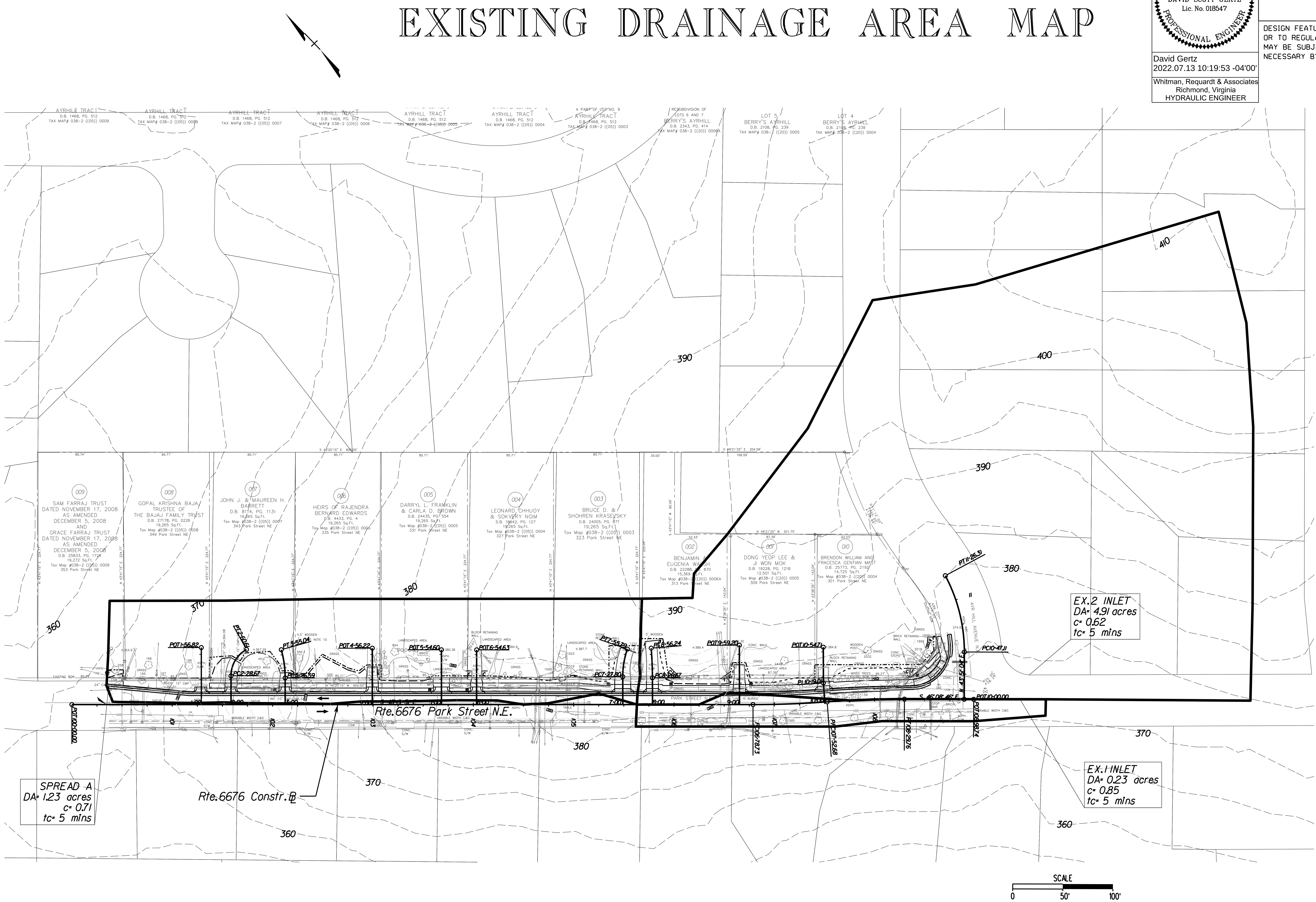
David Gertz
2022.07.13 10:19:53 -04'00'

Whitman, Requardt & Associates
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.		EN17-153-114	2E

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

EXISTING DRAINAGE AREA MAP



PROJECT	SHEET NO.
EN17-153-114	2E

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

PROPOSED DRAINAGE AREA MAP

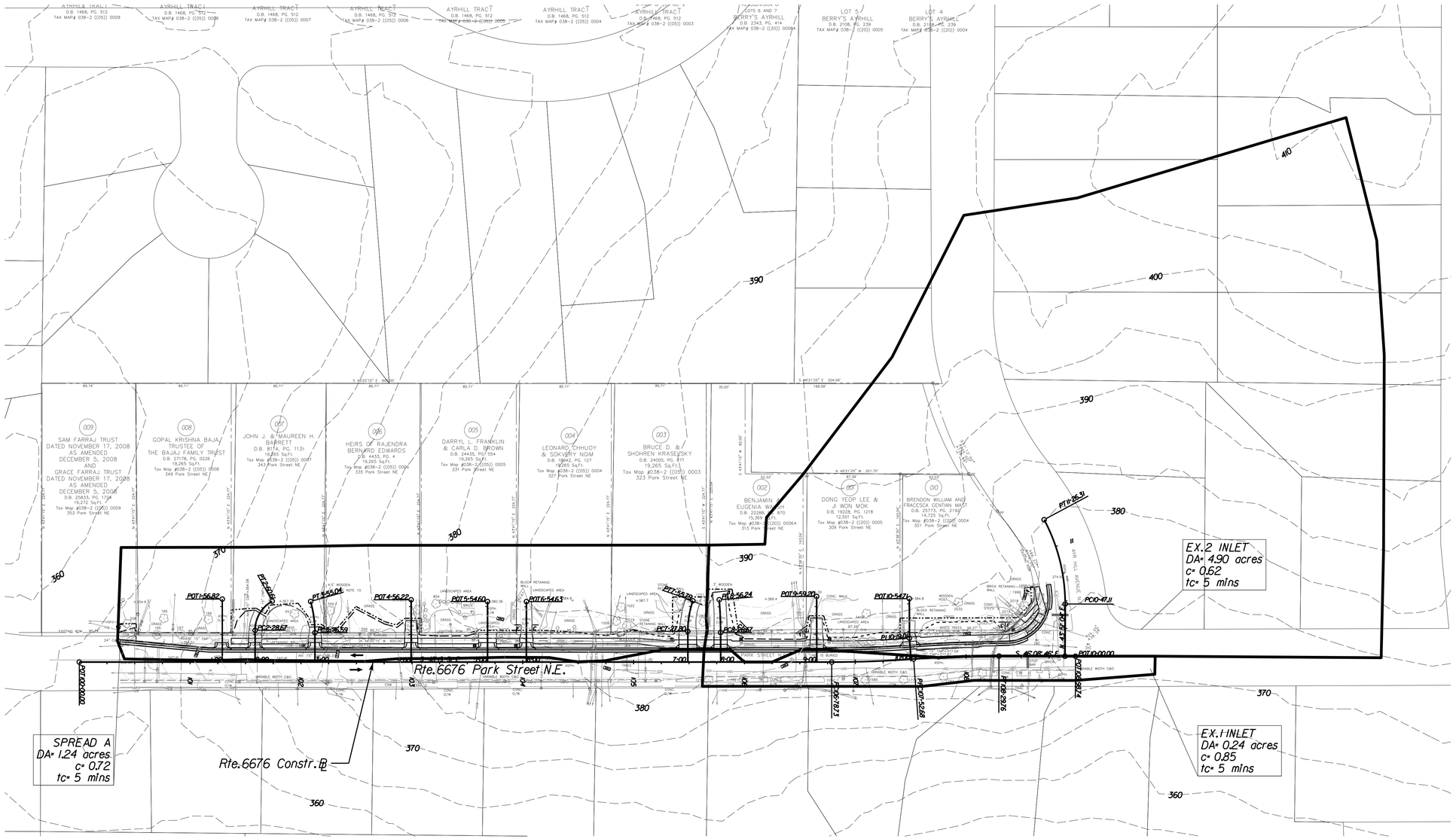
COMMONWEALTH OF VIRGINIA
DAVID SCOTT GERTZ
Lic. No. 018547
PROFESSIONAL ENGINEER

David Gertz
2022.07.13 10:22:18 -04'00'

Whitman, Requardt & Associates
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	2F

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



PROJECT	SHEET NO.
ENI7-153-114	2F

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380.
SURVEYED BY, DATE BICE ASSOCIATES, (703) 968-3200, AUGUST 2018.
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP. (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

UTILITY CONTACTS:

AT&T
NO UTILITIES IN WORK AREA
GARY WIGFIELD
CONSTRUCTION ENGINEER MANAGER
4800 WINCHESTER BOULEVARD
FREDERICK, MD. 21703
(301) 606-1404

COX COMMUNICATION
REQUESTED PRINTS 6-21,6-25,
7-1-18
NO RESPONSE AS OF 8-20-18
JOSHUA ARNOLD
SUPERVISOR CONSTRUCTION
3800 CENTREVILLE ROAD
FREDERICKSBURG, VA 20171
(703) 480-5157

DOMINION POWER
RECEIVED PRINTS 6-25-18
JULIA MATHERS
COORDINATOR OF ELECTRIC DISTRICT
3072 CENTREVILLE ROAD
HERNDON, VA 20171
(571) 203-5324

SUMMITIG LLC
NO UTILITIES IN WORK AREA
STEVE RAGLAND
VICE PRESIDENT OF OPERATION
22375 BRODERICK DRIVE
DULLES, VA 20166
(703) 376-3700

TOWN OF VIENNA WATER
RECEIVED PRINTS 6-21-18
JENNIFER SIGLER
127 CENTER STREET
VIENNA, VA 22180
(703) 255-6380

VERIZON COMMUNICATION
REQUESTED PRINTS 6-21,6-25,
7-1-18
NO RESPONSE AS OF 8-20-18
JAMES CUNNINGHAM
SUPRERVISOR OF NETWORK
13101 COLUMBIA PIKE
SILVER SPRINGS, MD. 20904
(301) 282-4506

WASHINGTON GAS
RECEIVED PRINTS 6-21-18
NALA BYRD
RECORDS CLERK
6801 INDUSTRIAL ROAD
SPRINGFIELD, VA 22151
(703) 750-4403

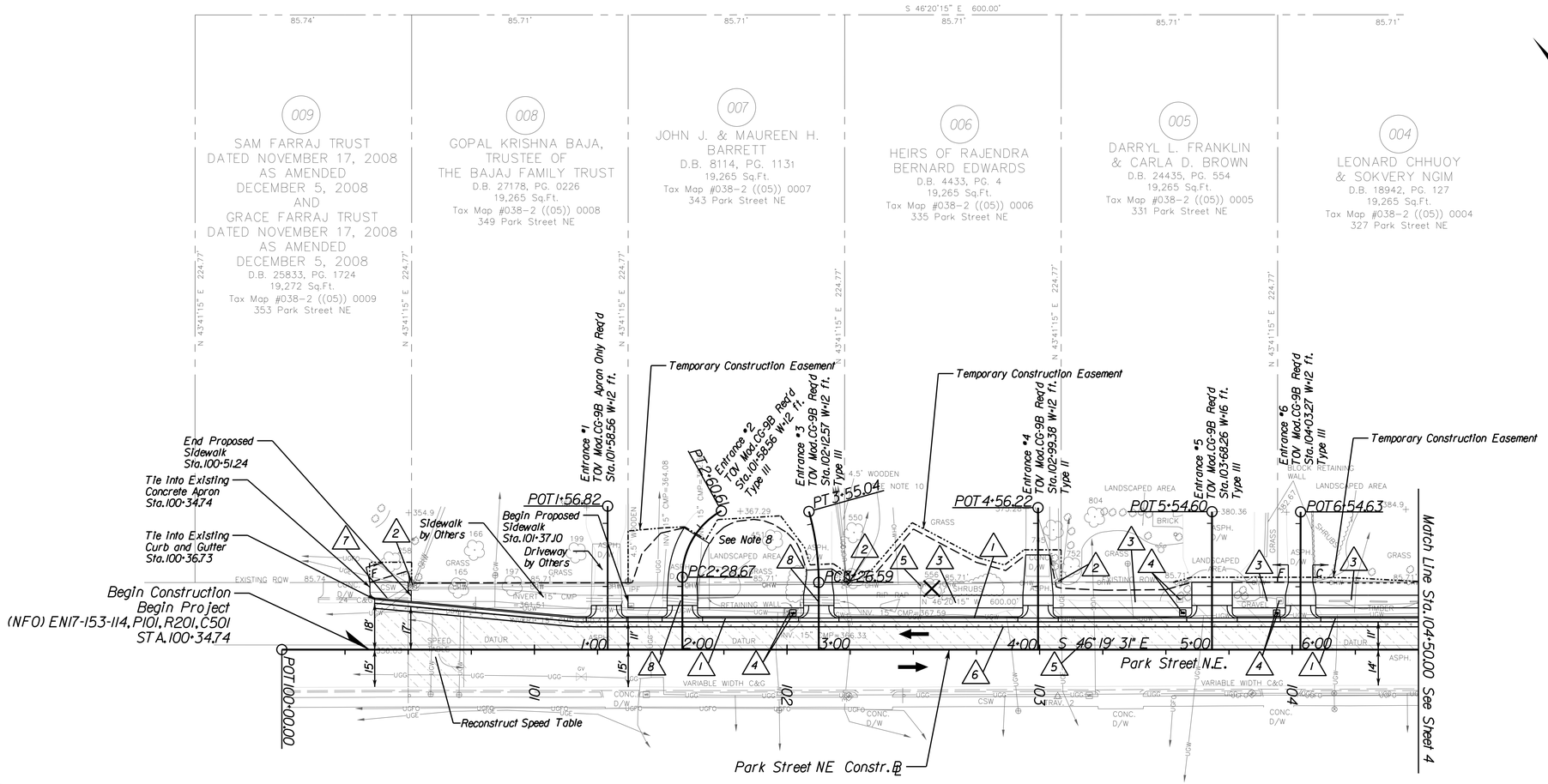
COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

Tyler Long 2022.09.08 10:54:44 -04'00'

Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	3

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



LEGEND

- Proposed Mill and Overlay
- Proposed Full Depth Pavement
- Proposed Demolition of Pavement
- Proposed Pavement Buildup
- X Denotes Tree/Shrub Removal
- C ---- Denotes Construction Limits in Cuts
- F -- Denotes Construction Limits in Fills
- ·-·-·- Denotes Temporary Construction Easement

1. TOV STD.CURB AND GUTTER
2. GRADE AROUND EXISTING UTILITY
3. 5' WIDE CONCRETE SIDEWALK
4. REMOVE AND RELOCATE MAILBOX
5. ADJUST UTILITY TO FINAL GRADE
6. FULL DEPTH SAW CUT
7. REMOVE EXISTING CURB AND GUTTER
8. REMOVE EXISTING CULVERT
9. REMOVE AND RELOCATE SIGN

NOTES:

1. GRADE AROUND SIDEWALK TO ENSURE POSITIVE DRAINAGE (3:1 MAX).
2. PROPOSED SIDEWALK SHALL DRAIN TOWARDS ROADWAY AT 2%.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT FROM HARM OR REPLACE UNDER LICENSED LAND SURVEYOR ALL PROPERTY MONUMENTATION DISTURBED BY CONSTRUCTION.
4. ALL MAILBOXES TO BE RELOCATED THROUGH COORDINATION WITH TOWN ENGINEER AND PROPERTY OWNER.
5. EXISTING TIMBER RETAINING WALLS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED.
6. MINIMUM REQUIRED LATERAL OFFSET FROM FACE OF CURB TO SIGN PANELS SHALL BE 2 FT.
7. SEE SHEET 2B FOR GEOMETRIC STAKEOUT LAYOUT AND ELEVATIONS.
8. THE CONTRACTOR SHALL NOT DISTURB EXISTING TREE #451. THE CONTRACTOR SHALL GRADE AROUND THE TREE AND IN THE AREA BETWEEN THE DRIVEWAYS TO ENSURE POSITIVE DRAINAGE.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Geometric Layout	2B
Mainline Profile	3A(1)
Entrance Profiles	3A(2)
E & S Control	3B
Signing and Marking	5

SCALE
0 25' 50'

PROJECT	SHEET NO.
ENI7-153-114	3

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

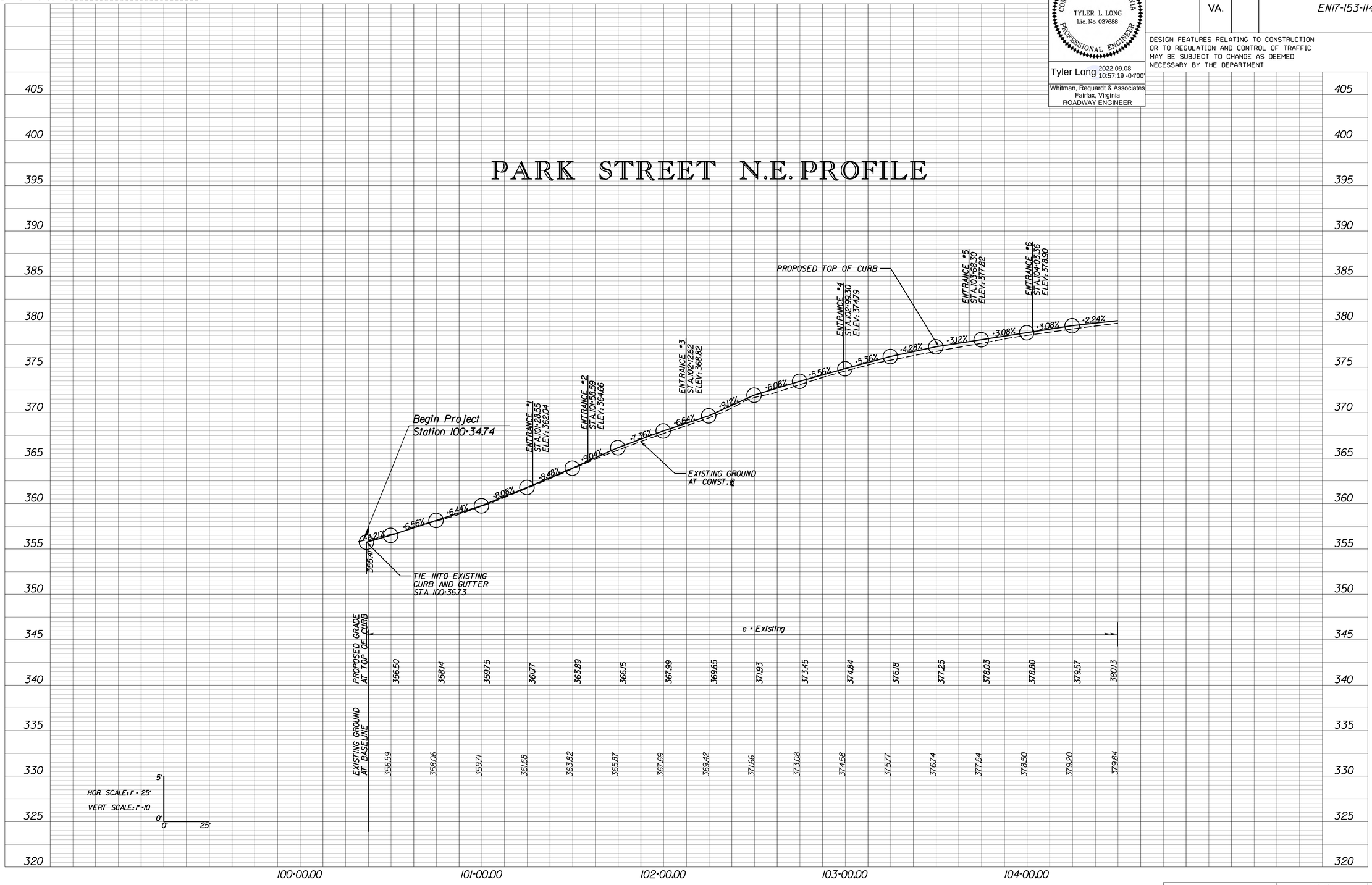
Tyler Long 2022.09.08 10:57:19 -04'00'

Whitman, Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		EN17-153-114	3A(1)

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

PARK STREET N.E. PROFILE

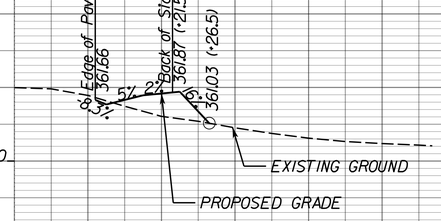


	PROJECT	SHEET NO.
	EN17-153-114	3A(1)

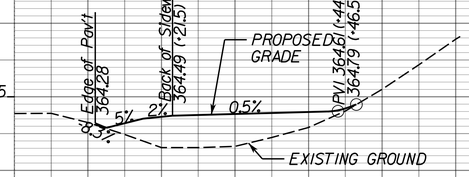
PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

ENTRANCE PROFILES

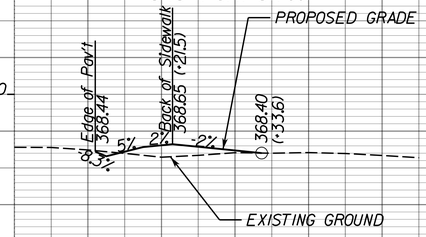
ENTRANCE # 1
349 Park Street



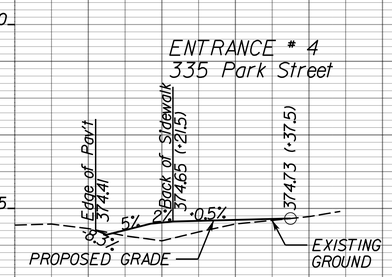
ENTRANCE # 2
343 Park Street



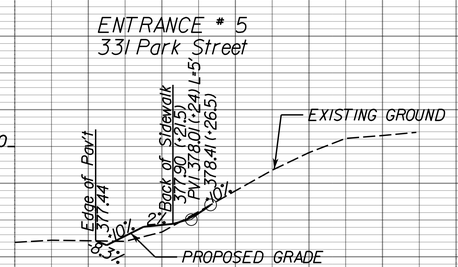
ENTRANCE # 3
343 Park Street



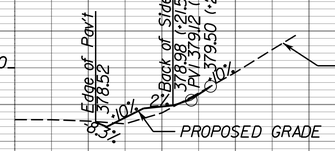
ENTRANCE # 4
335 Park Street



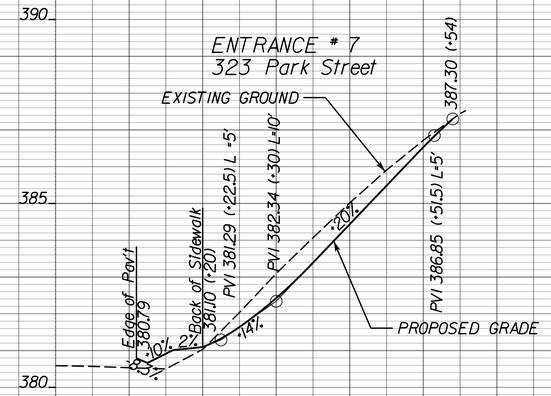
ENTRANCE # 5
331 Park Street



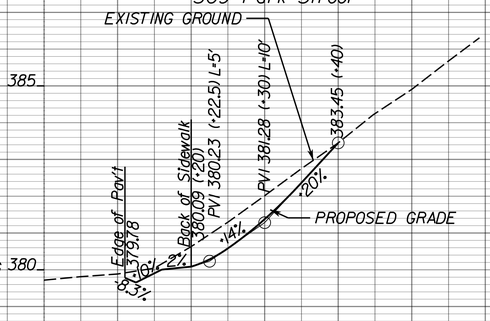
ENTRANCE # 6
327 Park Street



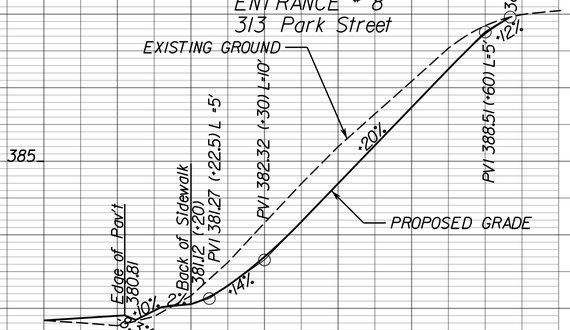
ENTRANCE # 7
323 Park Street



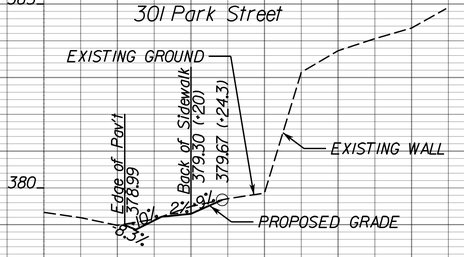
ENTRANCE # 9
309 Park Street



ENTRANCE # 8
313 Park Street



ENTRANCE # 10
301 Park Street



HOR SCALE: 1" = 10'
VERT SCALE: 1" = 2'

TYLER L. LONG
Lic. No. 037688
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Tyler Long 2022.09.08 10:58:41 -04'00'
Whitman, Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	3A(2)

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

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380. _____
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018. _____
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____.
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018 _____.

EROSION & SEDIMENT CONTROL

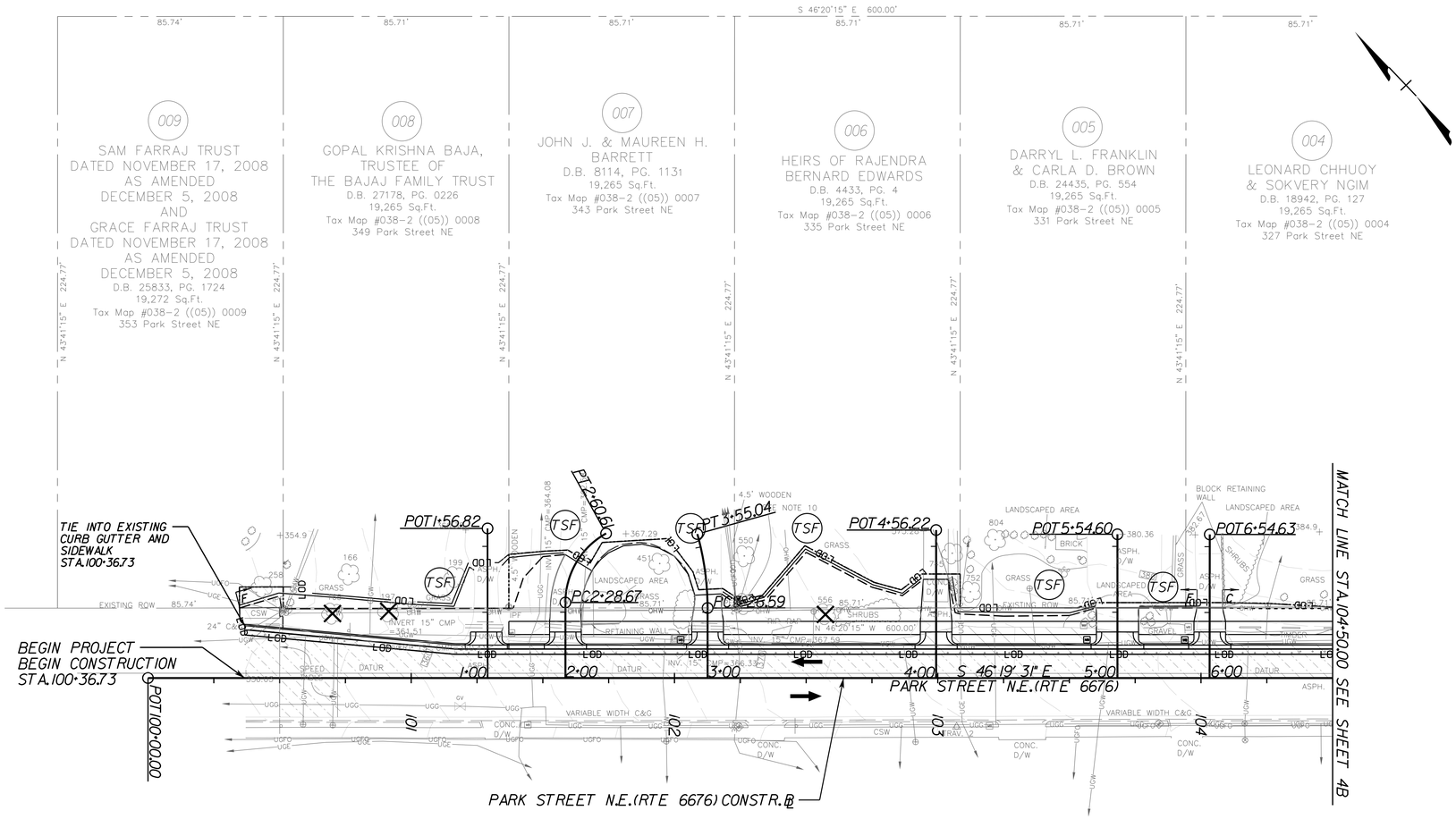
COMMONWEALTH OF VIRGINIA
DAVID SCOTT GERTZ
Lic. No. 018547
PROFESSIONAL ENGINEER

David Gertz
2022.07.13 10:21:57 -04'00'

Whitman, Requardt & Associates
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	3B

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



LEGEND

- Proposed Mill and Overlay
- Proposed Full Depth Pavement
- Proposed Demolition of Pavement
- Proposed Pavement Buildup
- X — Denotes Tree/Shrub Removal
- C — Denotes Construction Limits In Cuts
- F — Denotes Construction Limits In Fills
- Denotes Temporary Construction Easement

E & S LEGEND

- TSF — Denotes Temporary Silt Fence
- LOD — Denotes Limits of Disturbance

NOTES:

1. PLACE INLET PROTECTION ON NEAREST EXISTING STORM DRAIN SYSTEMS.

This sheet to be used for Erosion and Sediment Control only!

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Mainline Profile	3A(1)
Entrance Profile	3A(2)

SCALE
0 25' 50'

PROJECT	SHEET NO.
ENI7-153-114	3B

10/1/2021
3:17:01 PM

d45855003003.dgn
Plotted By: jrussell

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

RIGHT-OF-WAY PLAN

THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION

VCS 83, North Zone
Grid North VA State

COMMONWEALTH OF VIRGINIA
WILLIAM C. LIPPY, JR
Lic. No. 2887
10-5-21
LAND SURVEYOR

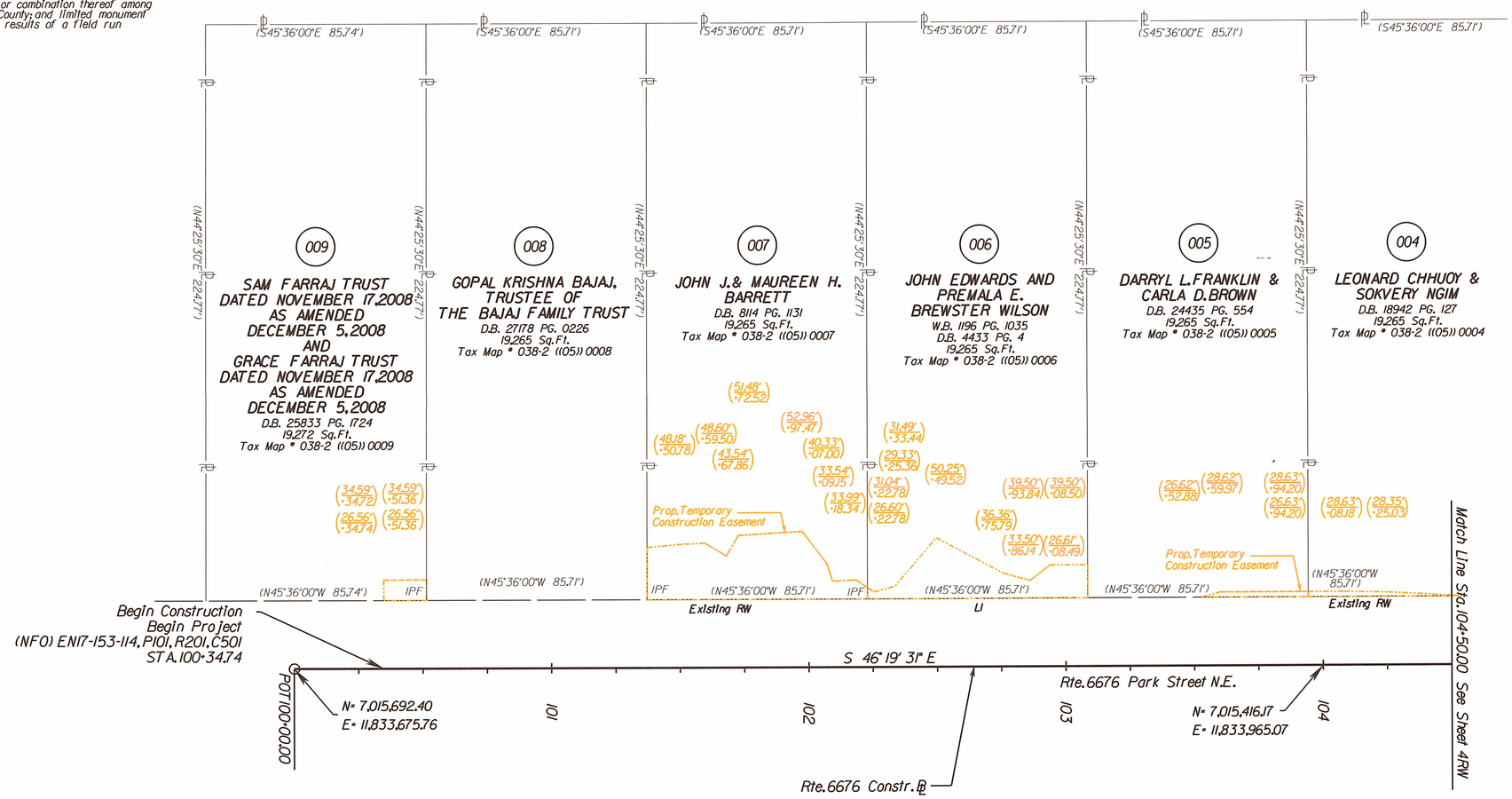
Rice Associates
Manassas, Virginia
LAND SURVEYOR

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6676	(NFO) ENI7-153-114	3RW

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

General Notes:

1. All of the properties' physical improvements are not shown hereon.
2. This plan sheet was performed without the benefit of a title report and may not show all easements which may affect the properties shown hereon.
3. The horizontal datum is Virginia State Plane Coordinate System 83 (North Zone), and the vertical datum is NAVD88.
4. The horizontal and vertical unit of measurement is U.S. Survey foot.
5. Property lines shown on this survey are a compilation form deeds, plats, surveys by others, or combination thereof among the land records of Fairfax County, and limited monument ties, and does not represent the results of a field run boundary survey.



Area Tabulation		
Parcel	Proposed Right of Way	Proposed Temporary Construction Easement
001	-----	253 Sq.Ft.
002	-----	1,023 Sq.Ft.
003	-----	1,011 Sq.Ft.
004	-----	85 Sq.Ft.
005	-----	76 Sq.Ft.
006	-----	1,059 Sq.Ft.
007	-----	1,683 Sq.Ft.

009	-----	134 Sq.Ft.
010	-----	1,617 Sq.Ft.

LEGEND:

Denotes Iron Pin Found — IPF
Denotes Existing Property Line — ℄
Denotes Temporary Construction Easement
Denotes Temporary Construction Station/Offset — (0.00' •00.00)

Existing RW Curve Table						
Curve	Radius	Length	Delta	Chord Bearing	Chord	Tangent
C1	25.00'	38.28'	87°43'40"	S 89°46'45" W	34.65'	24.03'
C2	110.00'	86.21'	44°54'13"	S 23°27'48" W	84.02'	45.45'
C3	255.00'	138.86'	31°12'00"	S 16°36'42" W	137.15'	71.20'

Existing RW Line Table		
Line	Bearing	Distance
L1	N 46°20'15" W	600.00'
L2	N 46°21'25" W	271.10'

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

SCALE	PROJECT	SHEET NO.
0 25' 50'	ENI7-153-114	3RW

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380.
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018.
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

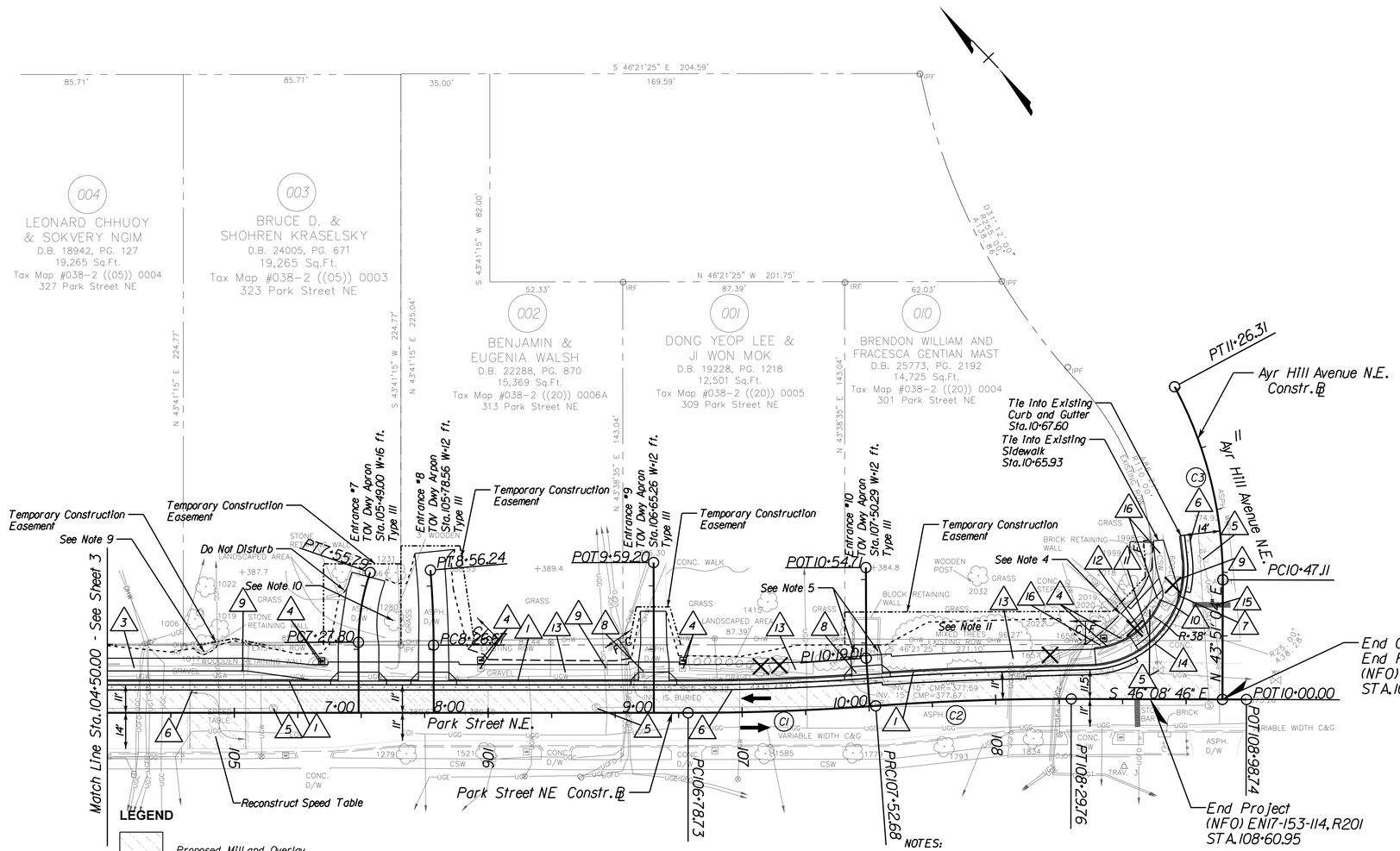
COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

Tyler Long 2022.09.08 11:00:40 -04'00'

Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	4

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



C1 Curve PS001
PI = 107+15.72
DELTA = 4°14'14.36" (LT)
D = 5°43'46"
T = 36.99'
L = 73.96'
R = 1,000.00'
PC = 106+78.73
PRC = 107+52.68

C2 Curve PS002
PI = 107+91.24
DELTA = 4°24'59.22" (RT)
D = 5°43'46"
T = 38.56'
L = 77.08'
R = 1,000.00'
PRC = 107+52.68
PT = 108+29.76

C3 Curve AYR1
PI = 10+88.76
DELTA = 28°21'41.06" (LT)
D = 35°48'36"
T = 40.43'
L = 79.20'
R = 160.00'
PC = 10+48.33
PT = 11+27.53

LEGEND

- Proposed Mill and Overlay
- Proposed Full Depth Pavement
- Proposed Demolition of Pavement
- Proposed Pavement Buildup
- X Denotes Tree/Shrub Removal
- C ---- Denotes Construction Limits In Cuts
- F -- -- Denotes Construction Limits In Fills
- ·-·-·-·- Denotes Temporary Construction Easement

1. TOV STD.CURB AND GUTTER
2. GRADE AROUND EXISTING UTILITY
3. 5' WIDE CONCRETE SIDEWALK
4. REMOVE AND RELOCATE MAILBOX
5. ADJUST UTILITY TO FINAL GRADE
6. FULL DEPTH SAW CUT
7. REMOVE EXISTING CURB AND GUTTER
8. REMOVE EXISTING CULVERT
9. REMOVE AND RELOCATE SIGN
10. TOV MOD. CURB AND GUTTER (reverse gutter) REQUIRED
11. ST'D VDOT CG-12 TYPE B REQUIRED
12. ST'D VDOT CG-2 REQUIRED
13. 6' WIDE CONCRETE SIDEWALK
14. FULL DEPTH SAW CUT CONCRETE
15. RESTRIPE STOP BAR
16. REMOVE EXISTING SIDEWALK

NOTES:

1. GRADE AROUND SIDEWALK TO ENSURE POSITIVE DRAINAGE (3% MAX).
2. PROPOSED SIDEWALK SHALL DRAIN TOWARDS ROADWAY AT 2%.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT FROM HARM OR REPLACE UNDER LICENSED LAND SURVEYOR ALL PROPERTY MONUMENTATION DISTURBED BY CONSTRUCTION.
4. CONTRACTOR SHALL AVOID IMPACTS TO EXISTING RETAINING WALL AND CONCRETE STEPS. GRADE AROUND BASE IF NECESSARY.
5. EXISTING BLOCK WALL WITHIN EXISTING RIGHT OF WAY SHALL BE REMOVED. CONTRACTOR SHALL AVOID IMPACTS TO PORTION OF EXISTING BLOCK RETAINING WALL OUTSIDE OF EXISTING RIGHT-OF-WAY.
6. MINIMUM REQUIRED LATERAL OFFSET FROM FACE OR CURB TO SIGN PANELS SHALL BE 2 FT.
7. ALL MAILBOXES TO BE RELOCATED THROUGH COORDINATION WITH TOWN ENGINEER AND PROPERTY OWNER.
8. SEE SHEET 2B FOR GEOMETRIC STAKEOUT LAYOUT AND ELEVATIONS.

NOTES Cont.:

9. THE CONTRACTOR SHALL NOT DISTURB EXISTING STONE WALL. THE CONTRACTOR SHALL GRADE AROUND THE WALL TO ENSURE POSITIVE DRAINAGE.
10. CONTRACTOR SHALL NOT DISTURB EXISTING TREE #1280. THE CONTRACTOR SHALL GRADE AROUND THE TREE AND IN THE AREA BETWEEN THE DRIVEWAYS TO ENSURE POSITIVE DRAINAGE.
11. PRIOR TO ANY CLEARING AND GRUBBING OR TREE REMOVAL AT 301 PARK STREET, THE CONTRACTOR SHALL COORDINATE WITH THE TOWN AND THE PROPERTY OWNER. TREE #S 1998, 1999, 2018, 2019, 2020, 2021, 1658 AND 2022 SHALL NOT BE DISTURBED WITHOUT COORDINATION WITH THE TOWN AND PROPERTY OWNER. THE CONTRACTOR SHALL GRADE TO ENSURE POSITIVE DRAINAGE.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Geometric Layout	2B
Mainline Profile	4A(1)
Ayr Hill Avenue N.E. Profile	4A(2)
Entrance Profiles	3A(2)
E & S Control	4B
Signing & Marking	5

SCALE
0 25' 50'

PROJECT	SHEET NO.
ENI7-153-114	4

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

COMMONWEALTH OF VIRGINIA
TYLER L. LONG
Lic. No. 037688
PROFESSIONAL ENGINEER

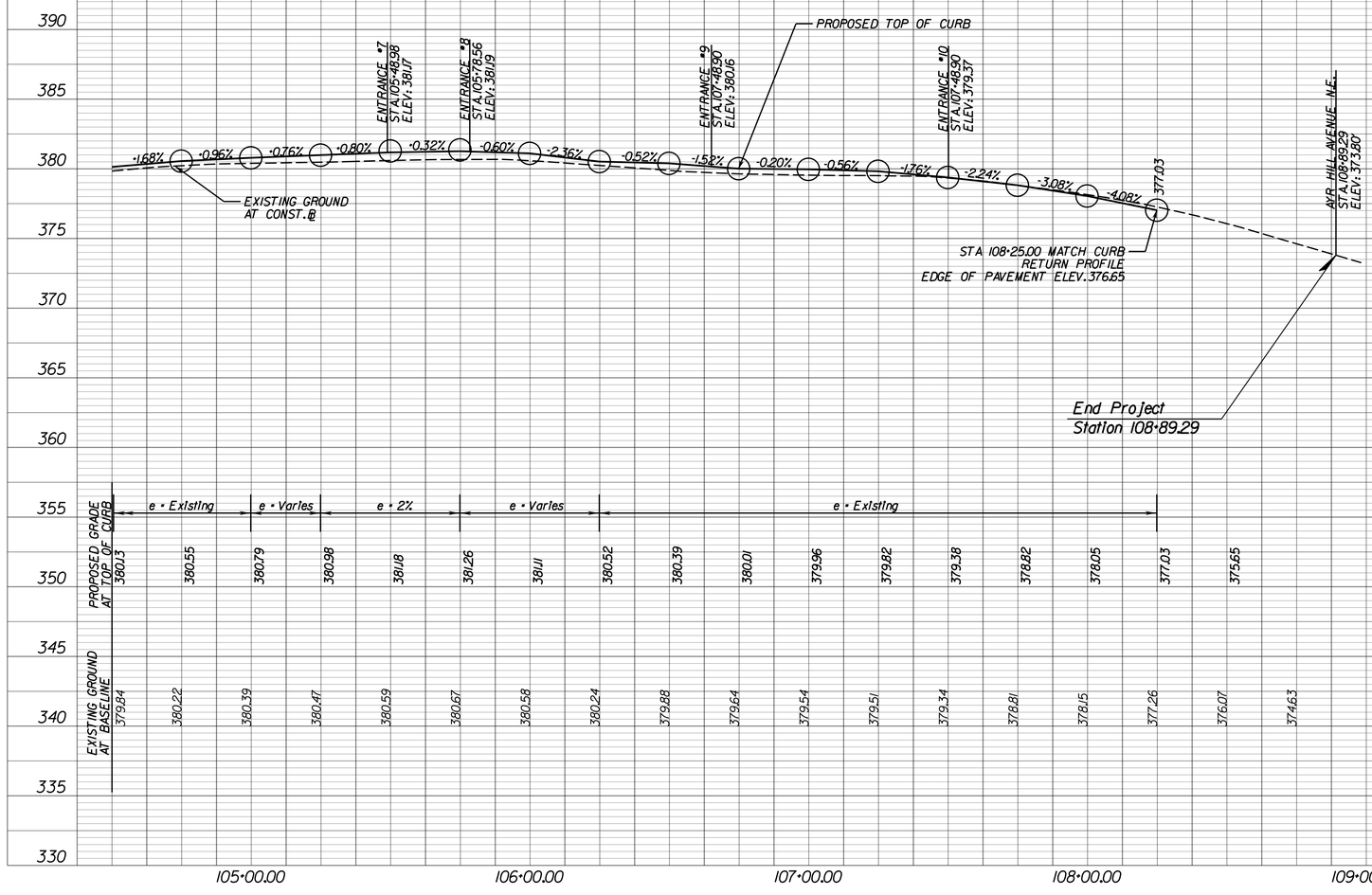
Tyler Long 2022.09.08 11:02:20 -04'00'

Whitman, Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

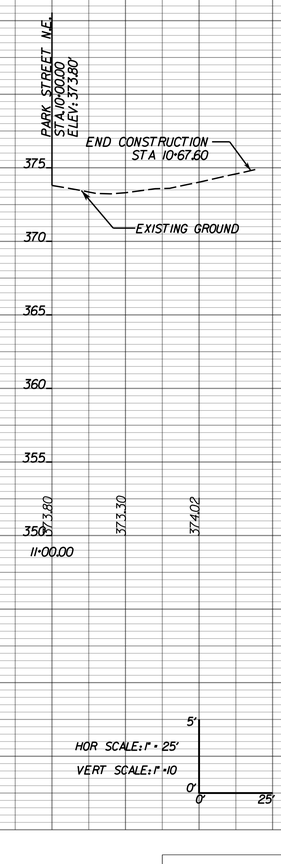
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	4A

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

PARK STREET N.E. PROFILE



AYR HILL AVENUE N.E. PROFILE



HOR SCALE: 1" = 25'
VERT SCALE: 1" = 10

PROJECT	SHEET NO.
ENI7-153-114	4A

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

EROSION & SEDIMENT CONTROL

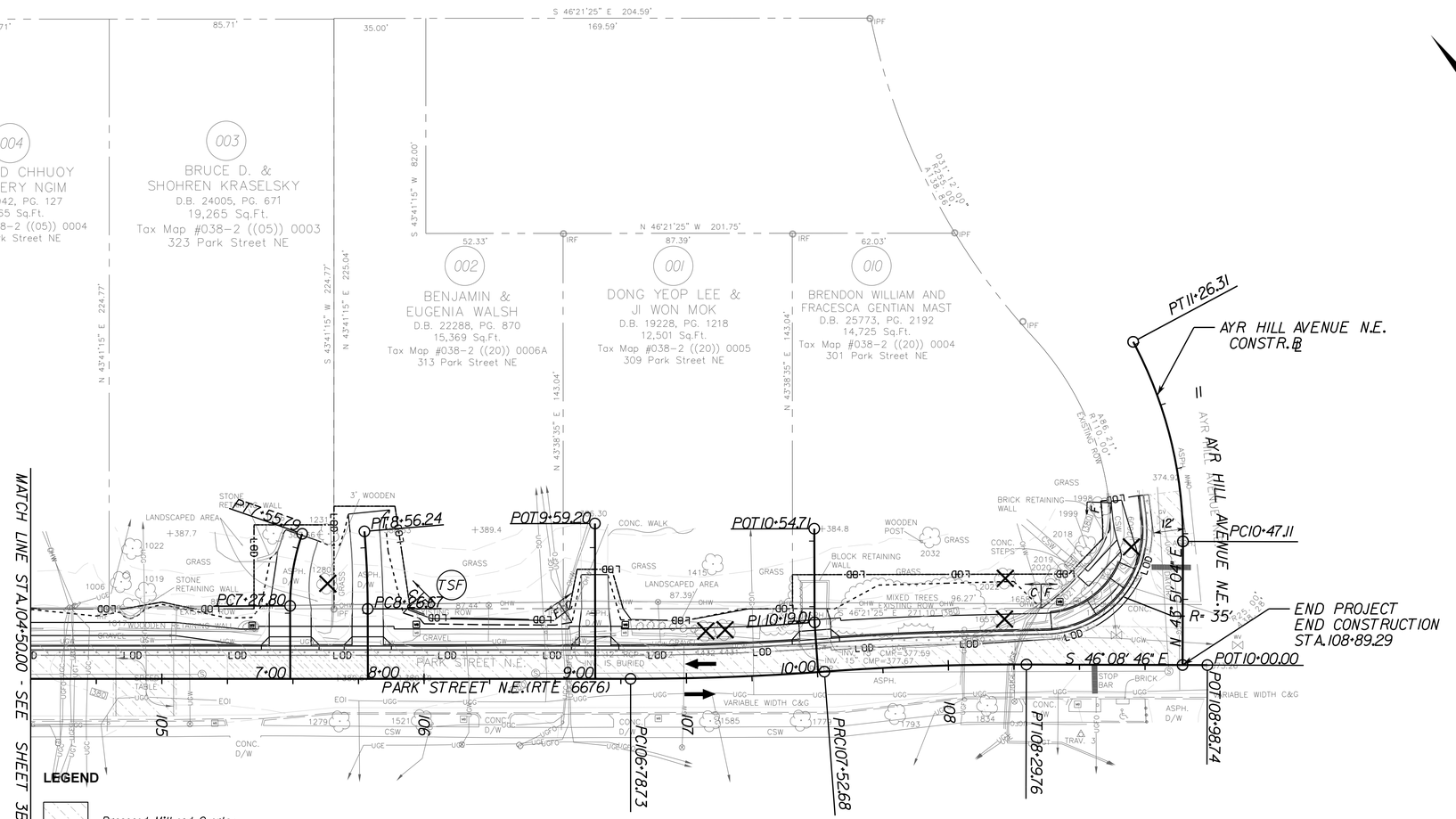
COMMONWEALTH OF VIRGINIA
DAVID SCOTT GERTZ
Lic. No. 018547
PROFESSIONAL ENGINEER

David Gertz
2022.07.13 10:22:39 -04'00'

Whitman, Requardt & Associates
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	4B

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



LEGEND

- Proposed Mill and Overlay
- Proposed Full Depth Pavement
- Proposed Demolition of Pavement
- Proposed Pavement Buildup
- Denotes Tree/Shrub Removal
- C ___ Denotes Construction Limits In Cuts
- F __ Denotes Construction Limits In Fills
- ·-·-·-· Denotes Temporary Construction Easement

E & S LEGEND

- TSF ——— Denotes Temporary Silt Fence
- —— LOD – Denotes Limits of Disturbance

NOTES:

1. PLACE INLET PROTECTION ON NEAREST EXISTING STORM DRAIN SYSTEMS.

SCALE
0 25' 50'

This sheet to be used for Erosion and Sediment Control only!

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Mainline Profile	4A(1)
Ayr Hill Avenue N.E. Profile	4A(2)
Entrance Profiles	3A(2)

	PROJECT	SHEET NO.
	ENI7-153-114	4B

9/29/2021
3:27:26 PM

d45855003004.dgn
Plotted By: jrussell

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

RIGHT-OF-WAY PLAN

THESE PLANS ARE UNFINISHED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION

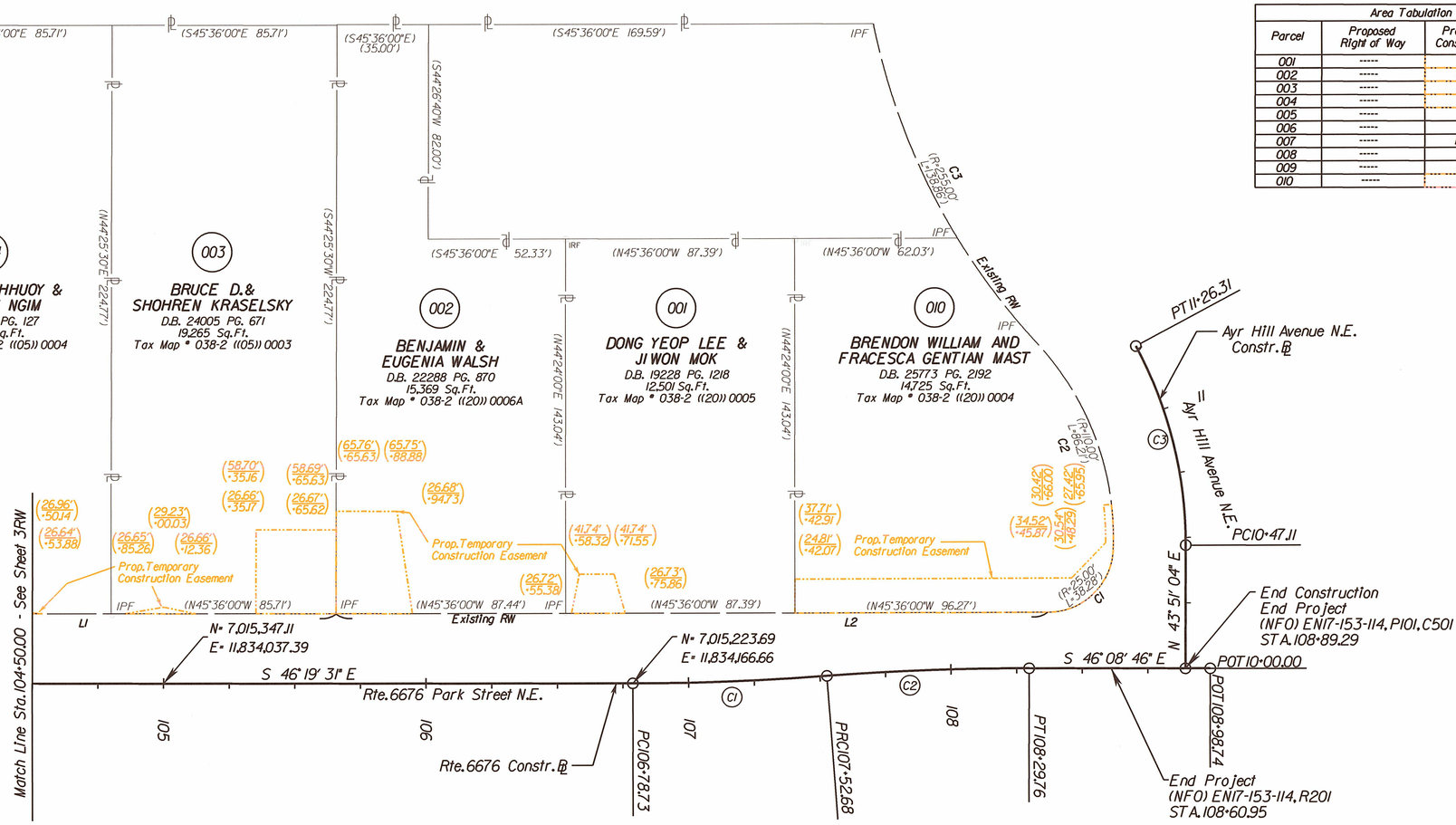
VCS 83, North Zone
Grid North Va. State

COMMONWEALTH OF VIRGINIA
WILLIAM G. UPPY, JR
Lic. No. 2887
10-5-21
LAND SURVEYOR

Rice Associates
Manassas, Virginia
LAND SURVEYOR

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	6676	EN17-153-114	4RW

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



Area Tabulation		
Parcel	Proposed Right of Way	Proposed Temporary Construction Easement
001	-----	253 Sq.Ft.
002	-----	1,023 Sq.Ft.
003	-----	1,011 Sq.Ft.
004	-----	85 Sq.Ft.
005	-----	76 Sq.Ft.
006	-----	894 Sq.Ft.
007	-----	1,598 Sq.Ft.
008	-----	596 Sq.Ft.
009	-----	134 Sq.Ft.
010	-----	1,617 Sq.Ft.

(C1) Curve PS001
PI = 107+15.72
DELTA = 4°14' 14.36" (LT)
D = 5°43' 46"
T = 36.99'
L = 73.96'
R = 1,000.00'
PC = 106+78.73
PRC = 107+52.68

(C2) Curve PS002
PI = 107+91.24
DELTA = 4° 24' 59.22" (RT)
D = 5°43' 46"
T = 38.56'
L = 77.08'
R = 1,000.00'
PRC = 107+52.68
PT = 108+29.76

(C3) Curve AYRI
PI = 10+88.76
DELTA = 28° 21' 41.06" (LT)
D = 35°48' 36"
T = 40.43'
L = 79.20'
R = 160.00'
PC = 10+48.33
PT = 11+27.53

General Notes:

1. All of the properties' physical improvements are not shown hereon.
2. This plan sheet was performed without the benefit of a title report and may not show all easements which may affect the properties shown hereon.
3. The horizontal datum is Virginia State Plane Coordinate System 83 (North Zone), and the vertical datum is NAVD88.
4. The horizontal and vertical unit of measurement is U.S. Survey Foot.
5. Property lines shown on this survey are a compilation form deeds, plats, surveys by others, or combination thereof among the land records of Fairfax County; and limited monumentties, and does not represent the results of a field run boundary survey.

LEGEND:

Denotes Iron Pin Found — IPF
Denotes Existing Property Line — ℄
Denotes Temporary Construction Easement
Denotes Temporary Construction Station/Offset — (9.00' •00.00)

Existing RW Curve Table						
Curve	Radius	Length	Delta	Chord Bearing	Chord	Tangent
C1	25.00'	38.28'	87°43'40"	S 89°46'45" W	34.65'	24.03'
C2	110.00'	86.21'	44°54'13"	S 23°27'48" W	84.02'	45.45'
C3	255.00'	138.86'	31°12'00"	S 16°36'42" W	137.15'	71.20'

Existing RW Line Table		
Line	Bearing	Distance
L1	N 46°20'15" W	600.00'
L2	N 46°21'25" W	271.10'

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

SCALE	PROJECT	SHEET NO.
0 25' 50'	EN17-153-114	4RW

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

SIGNING AND MARKING PLAN

COMMONWEALTH OF VIRGINIA
DANA TRONE OZLIN
Lic. No. 045607
PROFESSIONAL ENGINEER

Dana T Ozlin
2022.07.13 10:10:10 -04'00'

Whitman, Requardt & Assoc.
Richmond, Virginia
TRAFFIC ENGINEERING

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	5

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

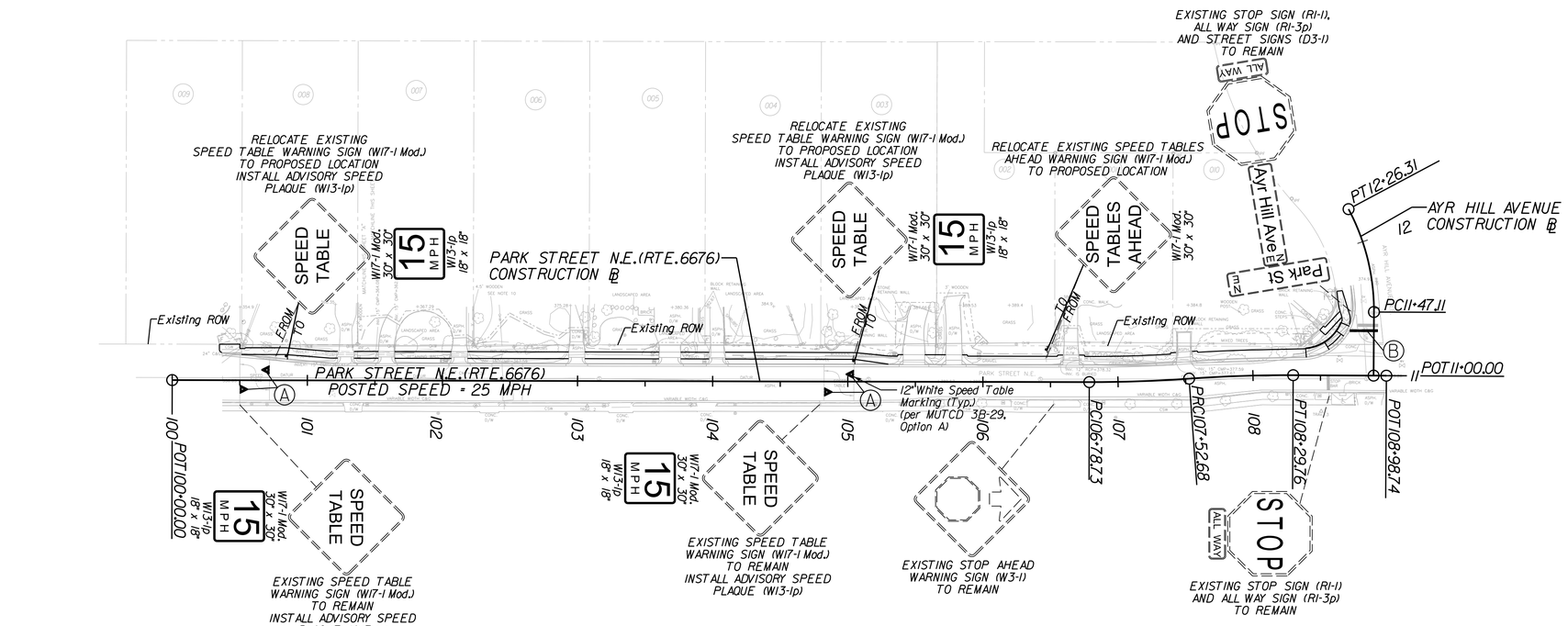
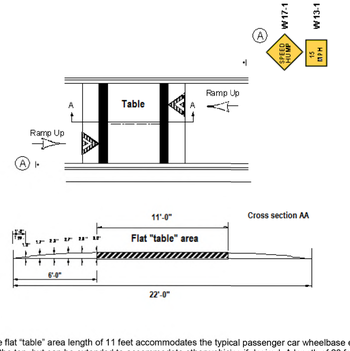


FIGURE A-6

SPEED TABLE / RAISED INTERSECTION



NOTES:

1. The flat "table" area length of 11 feet accommodates the typical passenger car wheelbase entirely on the top, but can be extended to accommodate other vehicles if desired. A length of 20 feet accommodates the typical single unit truck (AASHTO SU-30).
2. The "Ramp-up" transition shows an approximate slope of 4.2% (rise of 3" over 6' run).
3. A raised intersection would mimic the speed table design for each approach where the "ramp-up" occurs prior to entering the intersection and the flat table area encompasses the entire area of intersection for the approaching streets and therefore in most cases will exceed 11 feet.
4. Leave gutter pan open to facilitate drainage.
5. A 12" wide, 1" depth grind around the perimeter of the device is recommended in order to allow the surface course to be keyed into the pavement for a more durable application, particularly for snow plowing.
6. Per the 2009 MUTCD:
   i. Section 3B.25 -speed hump (table) markings are not required but if used they must comply with options per Section 3B.25.
   ii. Section 2C.29 - warning sign W17-1 is optional but if used, should include the advisory speed plaque (W13-1) and; the sign may use "Speed Bump" instead of "Speed Hump."

NOTES:

1. ALL PROPOSED SIGNING AND PAVEMENT MARKNGS SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF EACH OF THE FOLLOWING MANUALS, OR THE MOST RECENT REVISION THERETO:
   A. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
   B. THE VIRGINIA SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
   C. THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.
   D. THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS.
2. EXISTING SIGNS WITHIN THE LIMITS OF THE PROJECT WHICH HAVE NOT BEEN ACCOUNTED FOR IN THE PLAN SHALL BE RELOCATED OR REMOVED AS DIRECTED BY THE TOWN.
3. EXISTING SIGN PANELS SCHEDULED TO BE REUSED/RELOCATED MAY BE REPLACED WITH NEW SIGNS AT THE DISCRETION OF THE TOWN.
4. PROPOSED SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE MODIFIED IN THE FIELD TO AVOID CONFLICT WITH UNDERGROUND UTILITIES OR OTHER CONSTRUCTION, AND TO COMPLY WITH THE STANDARDS REFERENCED IN NOTE 1.
5. SIGNS SHALL BE PLACED TO MEET THE MINIMUM LATERAL OFFSET AND MINIMUM VERTICAL CLEARANCE AS SHOWN IN APPENDIX A(1) OF VDOT'S ROAD DESIGN MANUAL.
6. RELOCATED SIGNS TO BE INSTALLED ON A STP-1 FOUNDATION UNLESS OTHERWISE NOTED.
7. THERE IS AN EXISTING "SPEED TABLES AHEAD" SIGN IN THE SE DIRECTION THAT IS OUTSIDE OF THE SURVEY LIMITS.

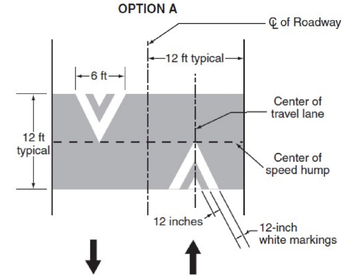
PAVEMENT MARKING LEGEND

Ⓐ TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 12" WIDTH

Ⓑ TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH

MUTCD FIG. 3B-29

OPTION A



SCALE
0 50' 100'

PROJECT	SHEET NO.
ENI7-153-114	5

7/13/2022
3:09:57 PM

PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

CROSS SECTIONS

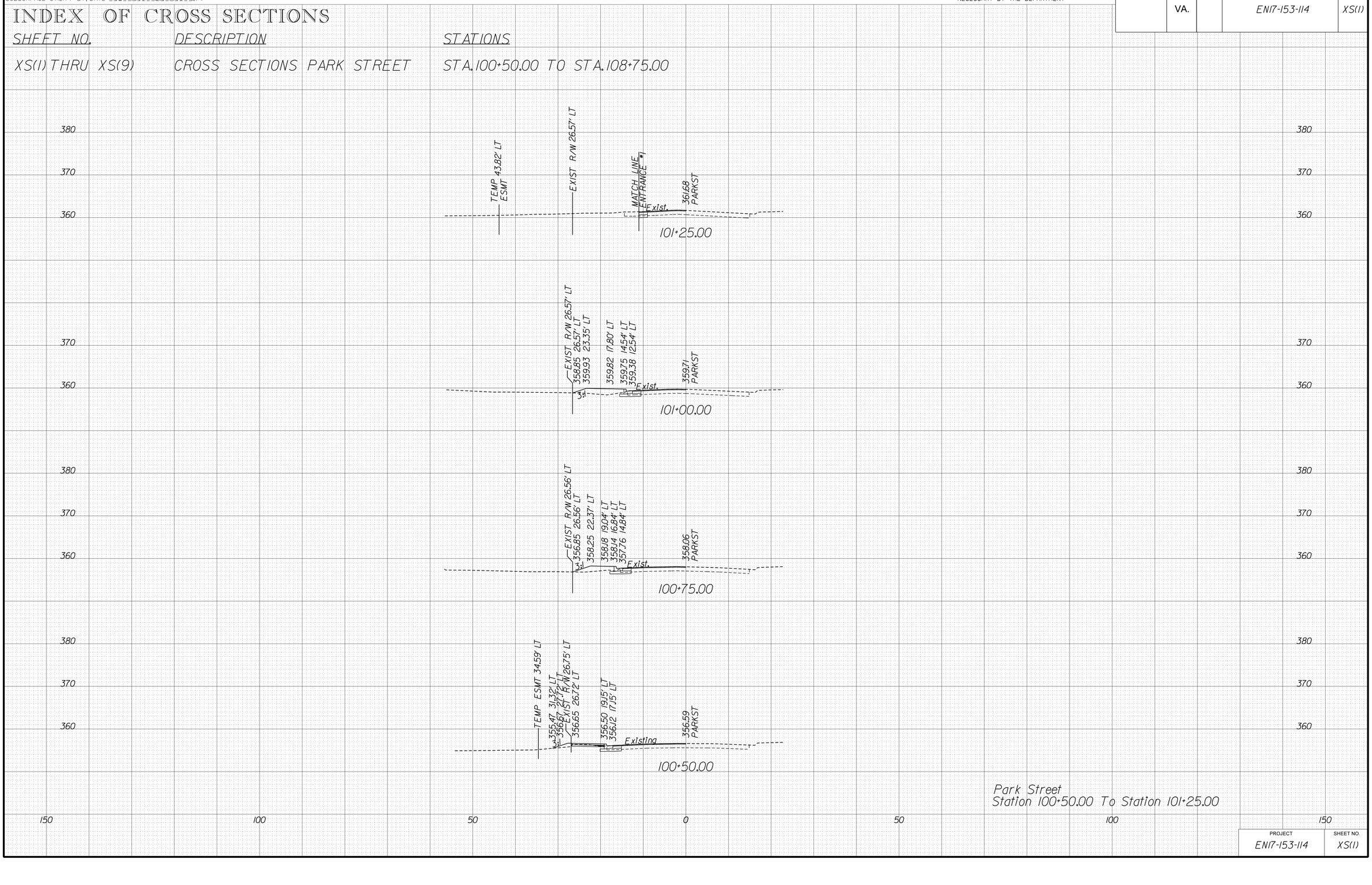
SCALE 1 IN. = 10 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		EN17-153-114	XS(1)

INDEX OF CROSS SECTIONS

SHEET NO.	DESCRIPTION	STATIONS
XS(1) THRU XS(9)	CROSS SECTIONS PARK STREET	STA. 100+50.00 TO STA. 108+75.00



Park Street
Station 100+50.00 To Station 101+25.00

PROJECT	SHEET NO.
EN17-153-114	XS(1)

7/12/2022
1:44:20 PM

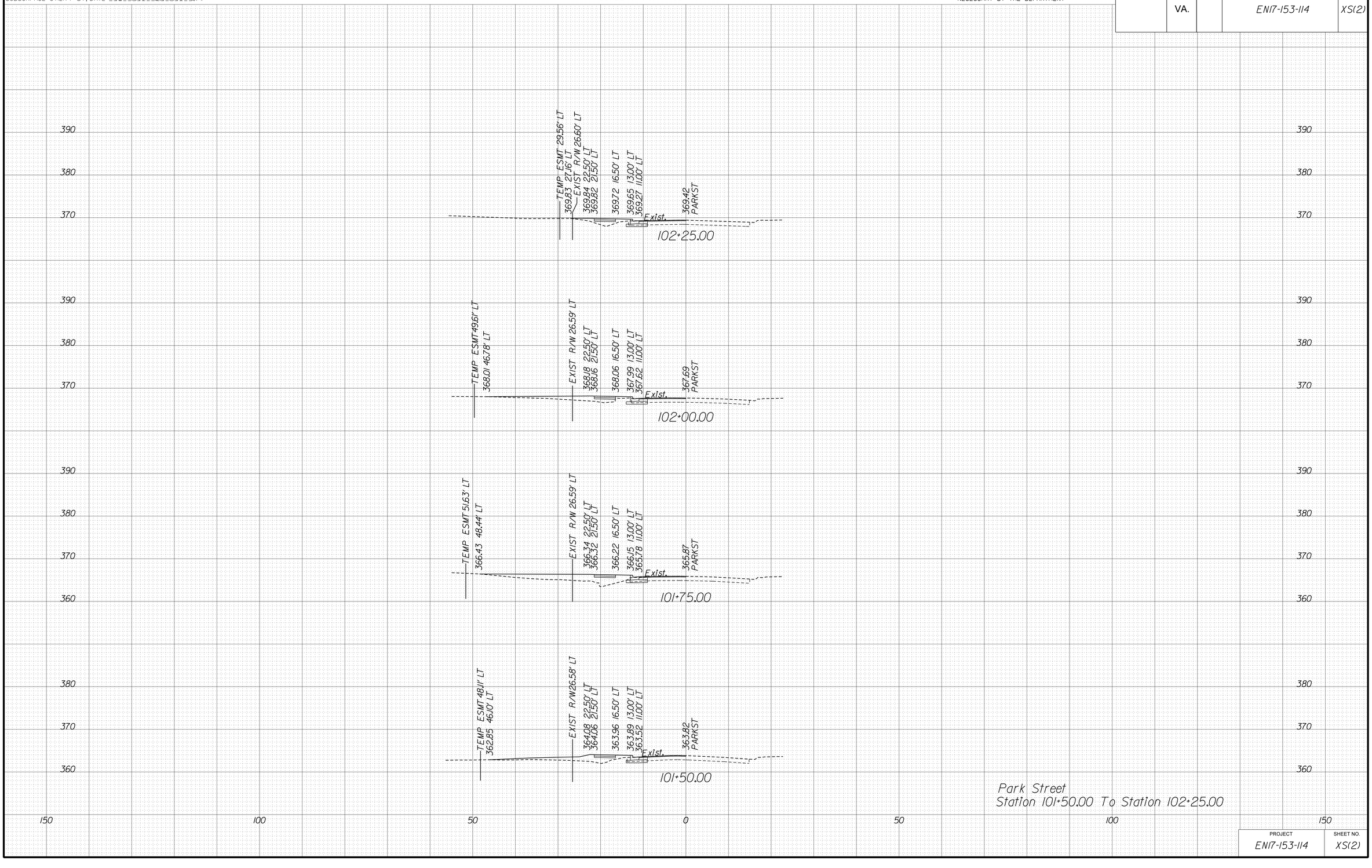
PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.		EN17-153-114	XS(2)



PROJECT	SHEET NO.
EN17-153-114	XS(2)

7/12/2022
1:45:02 PM

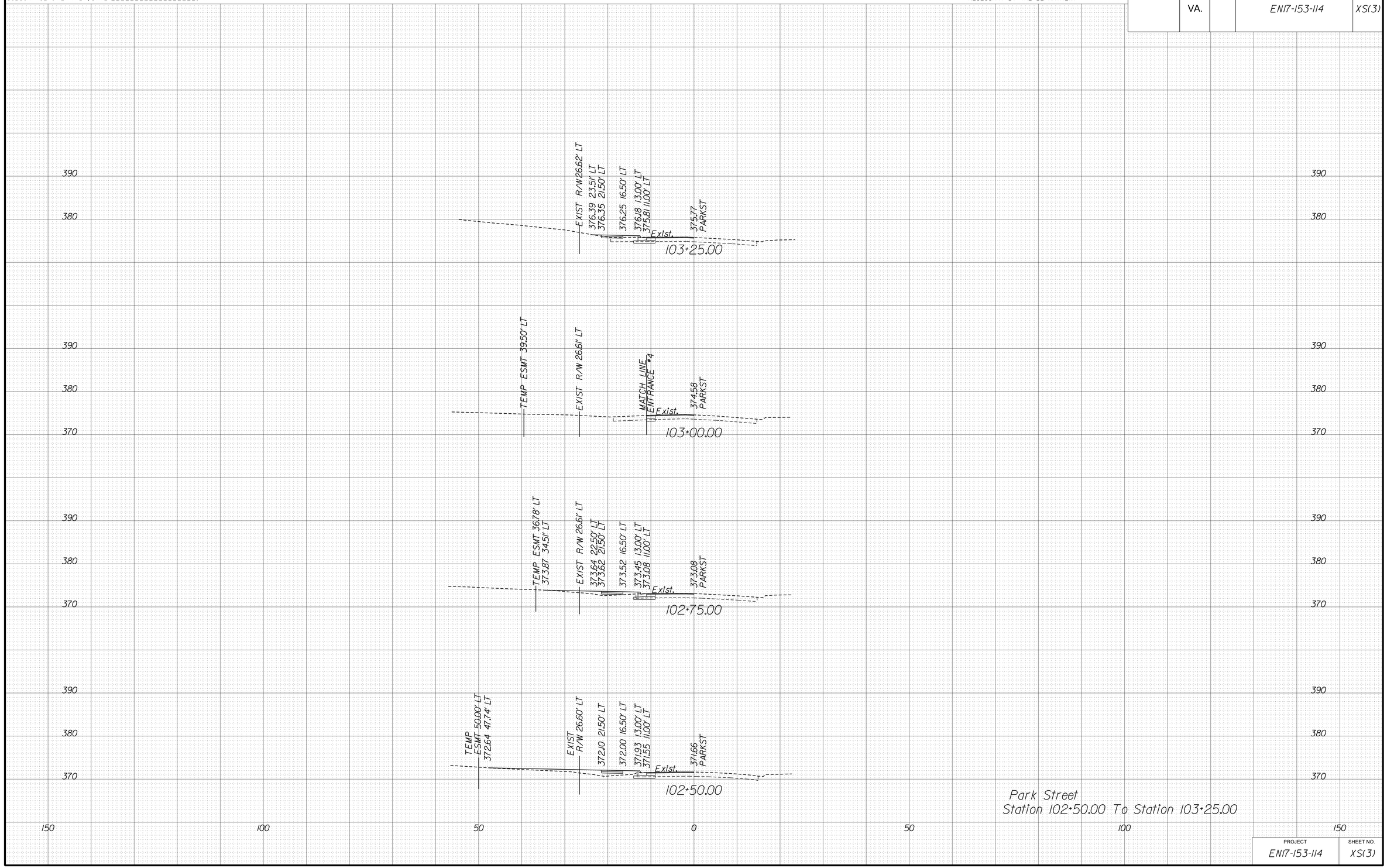
PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	XS(3)



PROJECT	SHEET NO.
ENI7-153-114	XS(3)

7/12/2022
2:44:22 PM

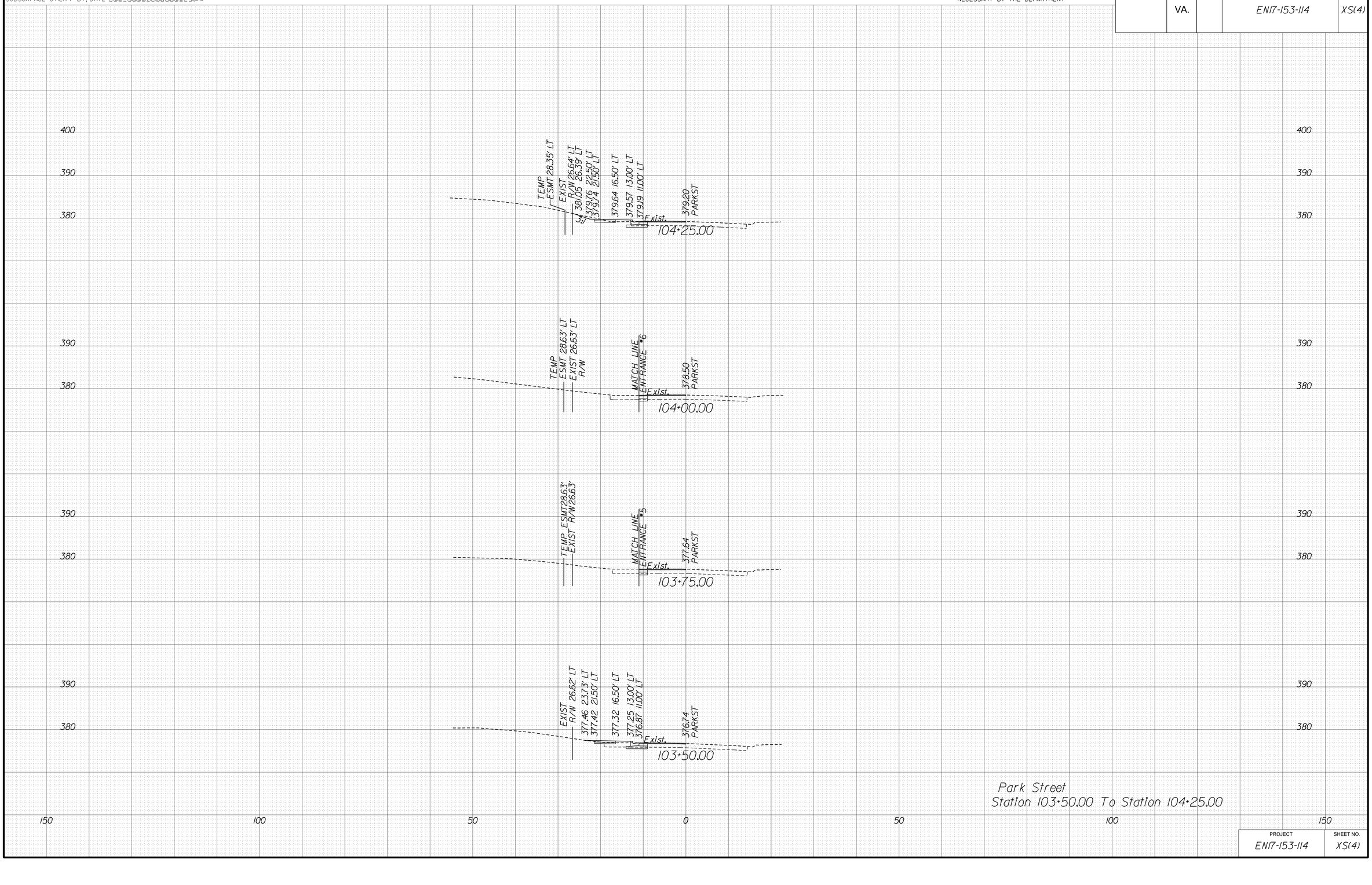
PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		EN17-153-114	XS(4)



Park Street
Station 103+50.00 To Station 104+25.00

PROJECT	SHEET NO.
EN17-153-114	XS(4)

7/12/2022
2:46:55 PM

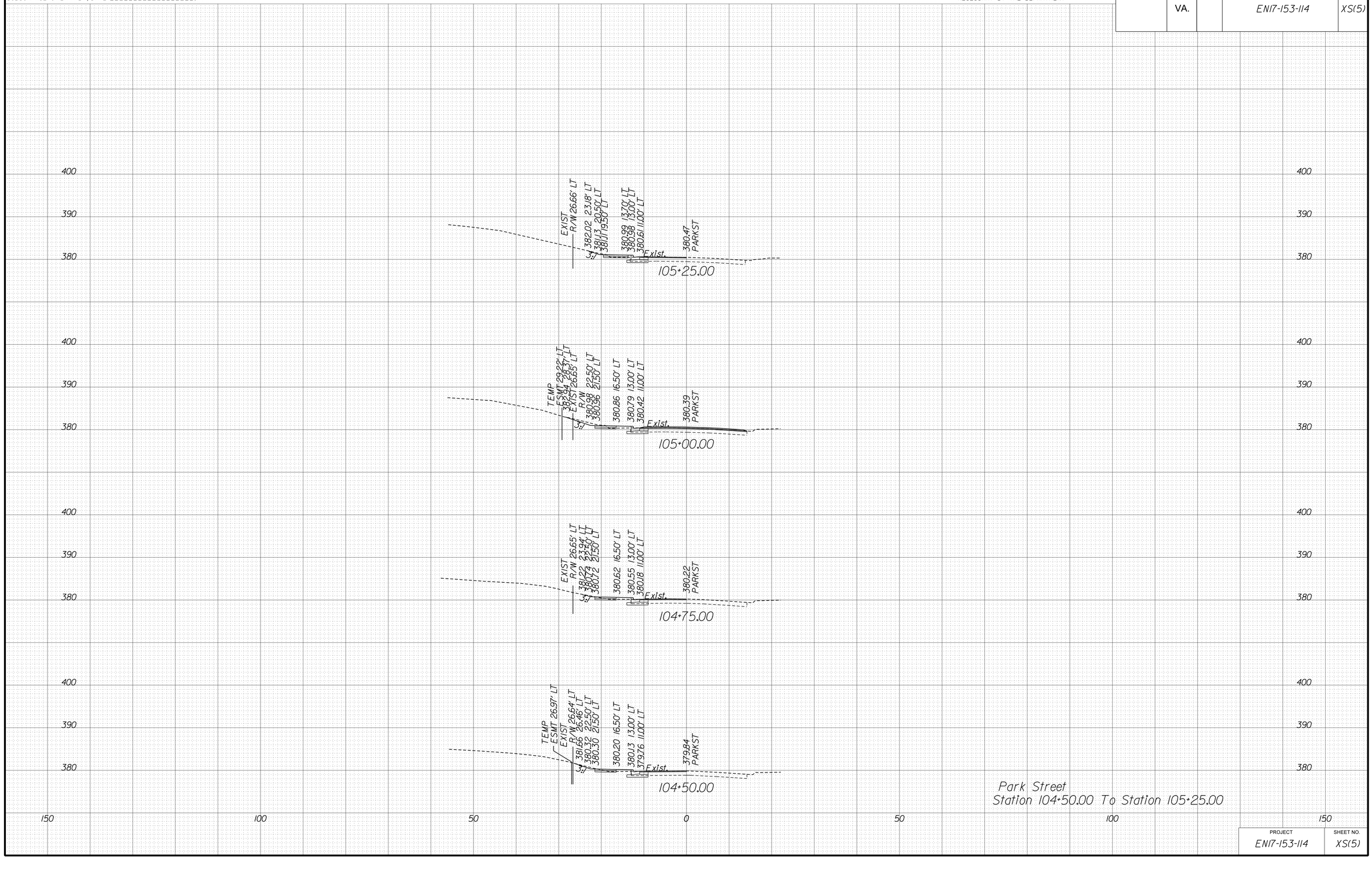
PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	XS(5)



Park Street
Station 104+50.00 To Station 105+25.00

PROJECT	SHEET NO.
ENI7-153-114	XS(5)

7/12/2022
2:54:22 PM

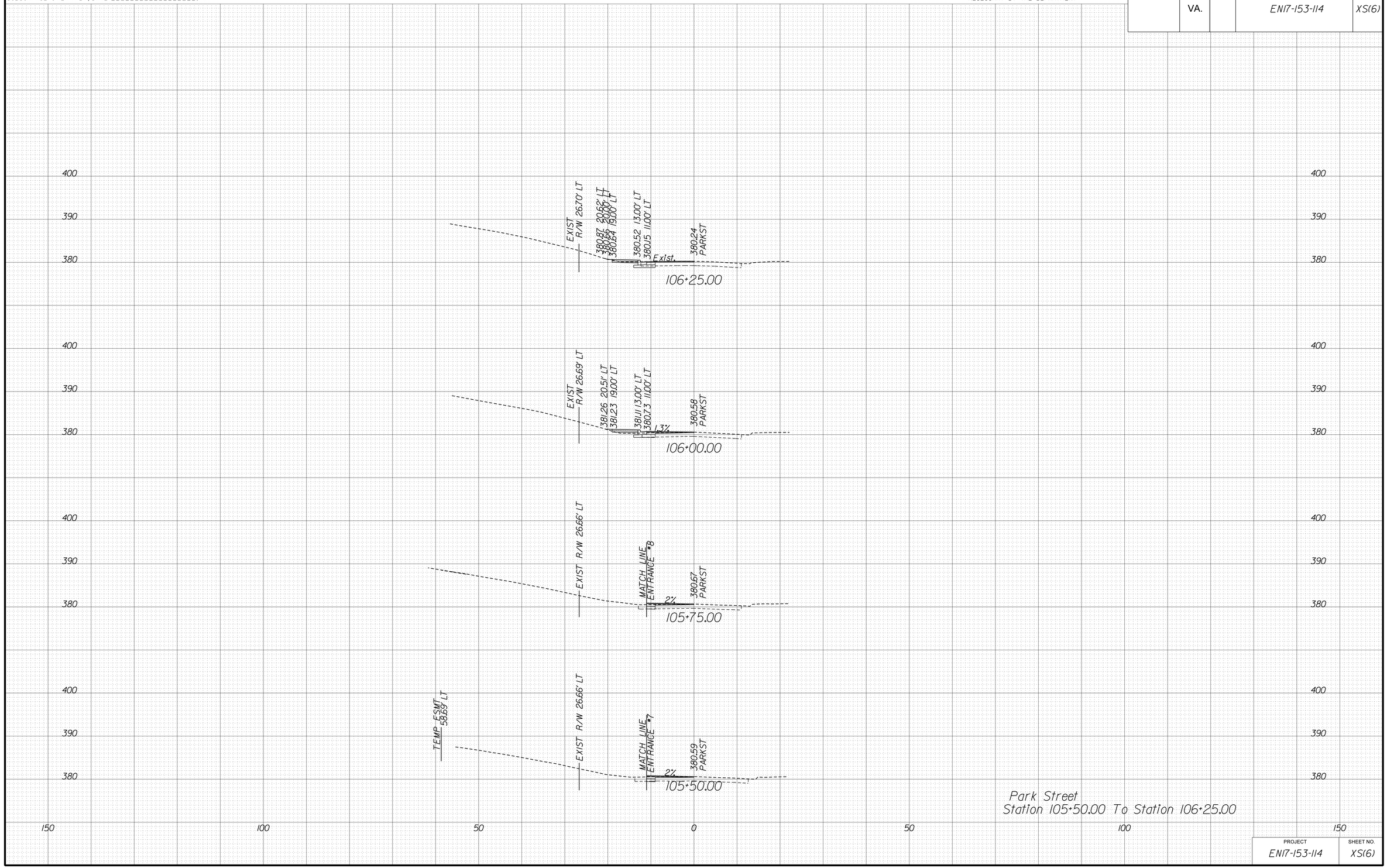
PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	XS(6)



Park Street
Station 105+50.00 To Station 106+25.00

PROJECT	SHEET NO.
ENI7-153-114	XS(6)

7/12/2022
2:58:43 PM

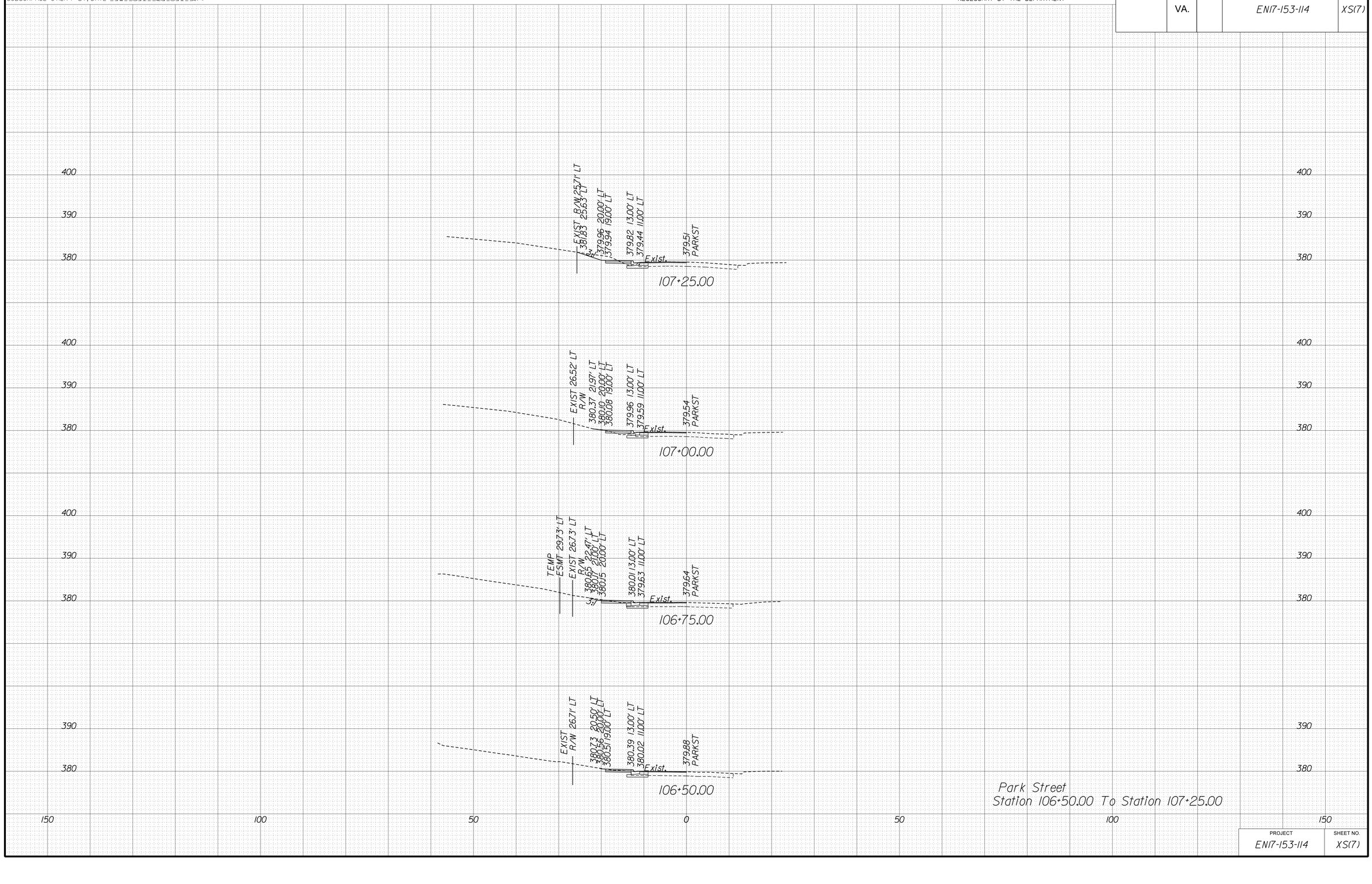
PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	XS(7)



Park Street
Station 106+50.00 To Station 107+25.00

PROJECT	SHEET NO.
ENI7-153-114	XS(7)

7/12/2022
2:59:07 PM

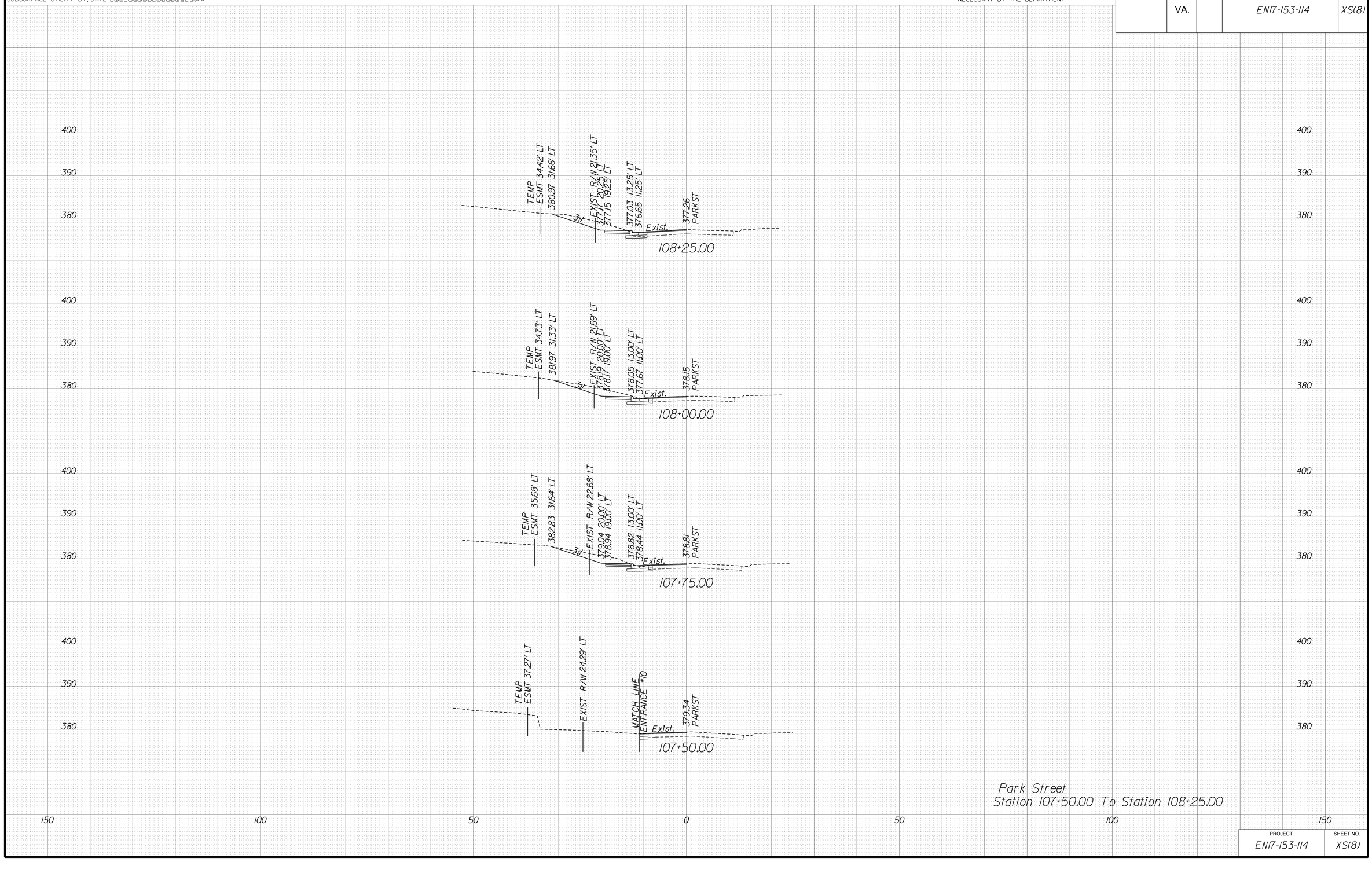
PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES, (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		ENI7-153-114	XS(8)



PROJECT	SHEET NO.
ENI7-153-114	XS(8)

7/12/2022
3:00:18 PM

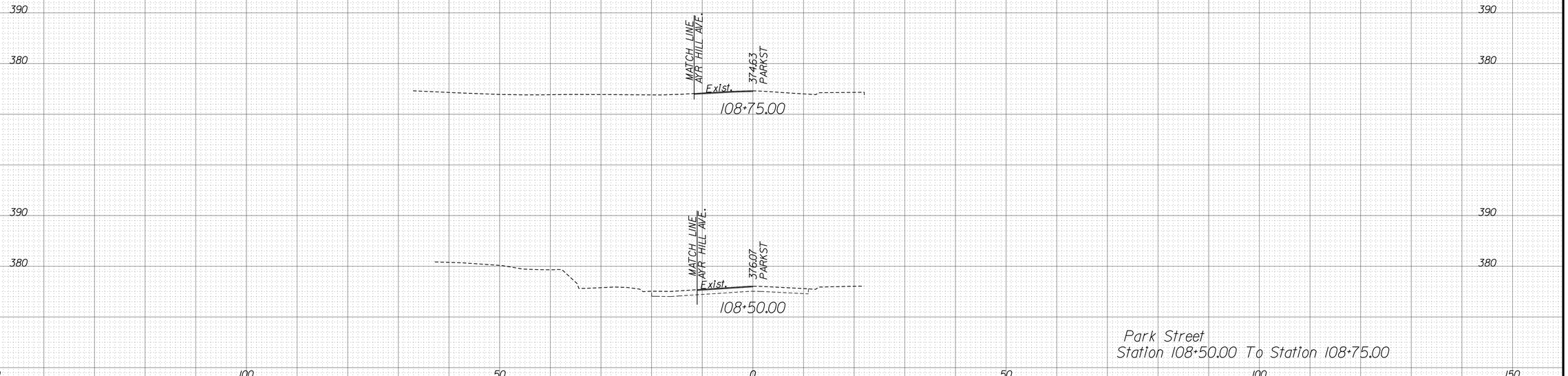
PROJECT MANAGER MICHAEL J. GALLAGHER, P.E. (703) 255-6380
SURVEYED BY, DATE RICE ASSOCIATES (703) 968-3200, AUGUST 2018
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE RICE ASSOCIATES, AUGUST 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.		EN17-153-114	XS(9)



Park Street
Station 108+50.00 To Station 108+75.00

PROJECT	SHEET NO.
EN17-153-114	XS(9)