

CONSTRUCTION PLANS FOR MIDDLE CREEK GREENWAY

CONSTRUCTION PLANS FOR:
MIDDLE CREEK GREENWAY PHASE 2
W&R PROJECT NO.: 02170753.00

SITE DATA

PARCEL ADDRESS(S):	0 E WILLIAMS ST, 0 COLBY CHASE DR
PROJECT COORDINATES	LAT: 35.689047°, LON: -78.824620°
PREPARED BY:	WITHERS RAVENEL, INC. 115 MACKENAN DRIVE CARY, NC 27511
OWNER:	TOWN OF APEX
DEVELOPER:	TOWN OF APEX PARKS AND RECREATION
ZONING	PUD-CU
WAKE COUNTY REID:	0033564, 0428643, 0428642
WAKE COUNTY PIN:	0750168061, 0750168881, 0750176279
AREA OF TRACTS	PORTION OF 3 TRACTS
TOTAL DISTURBED AREA	4.00 AC
CURRENT 2030 LAND USE	N/A
PROPOSED 2030 LAND USE	N/A
ANNEXATION NUMBER(S):	N/A
BUILT UPON AREA ALLOWED:	N/A
BUILT UPON AREA PROPOSED:	N/A
SETBACKS:	N/A
FRONT:	N/A
SIDE:	N/A
REAR:	N/A
WATERSHED PROTECTION OVERLAY:	SECONDARY
FEMA	SITE IS WITHIN FEMA FLOODPLAIN PER FIRM PANEL 3720075000J WITH AN EFFECTIVE DAY OF MAY 2, 2006.
GRADING TYPE	N/A
RCA REQUIRED	N/A
2% MASS GRADING	N/A
TOTAL REQUIRED	N/A
RCA/BUFFERS PROVIDED (FULL CREDIT)	N/A
PROVIDED RECREATION AREA (50% CREDIT)	N/A
PROVIDED PLAY LAWNS (50% CREDIT)	N/A
TOTAL PROVIDED	N/A
HISTORIC STRUCTURE	NONE

PHASE 2

APEX, NORTH CAROLINA

FIRST SUBMITTAL: SEPTEMBER 4, 2018

RESUBMITTAL: NOVEMBER 9, 2018

CONSTRUCTION PLAN SUBMITTAL: JANUARY 2, 2019

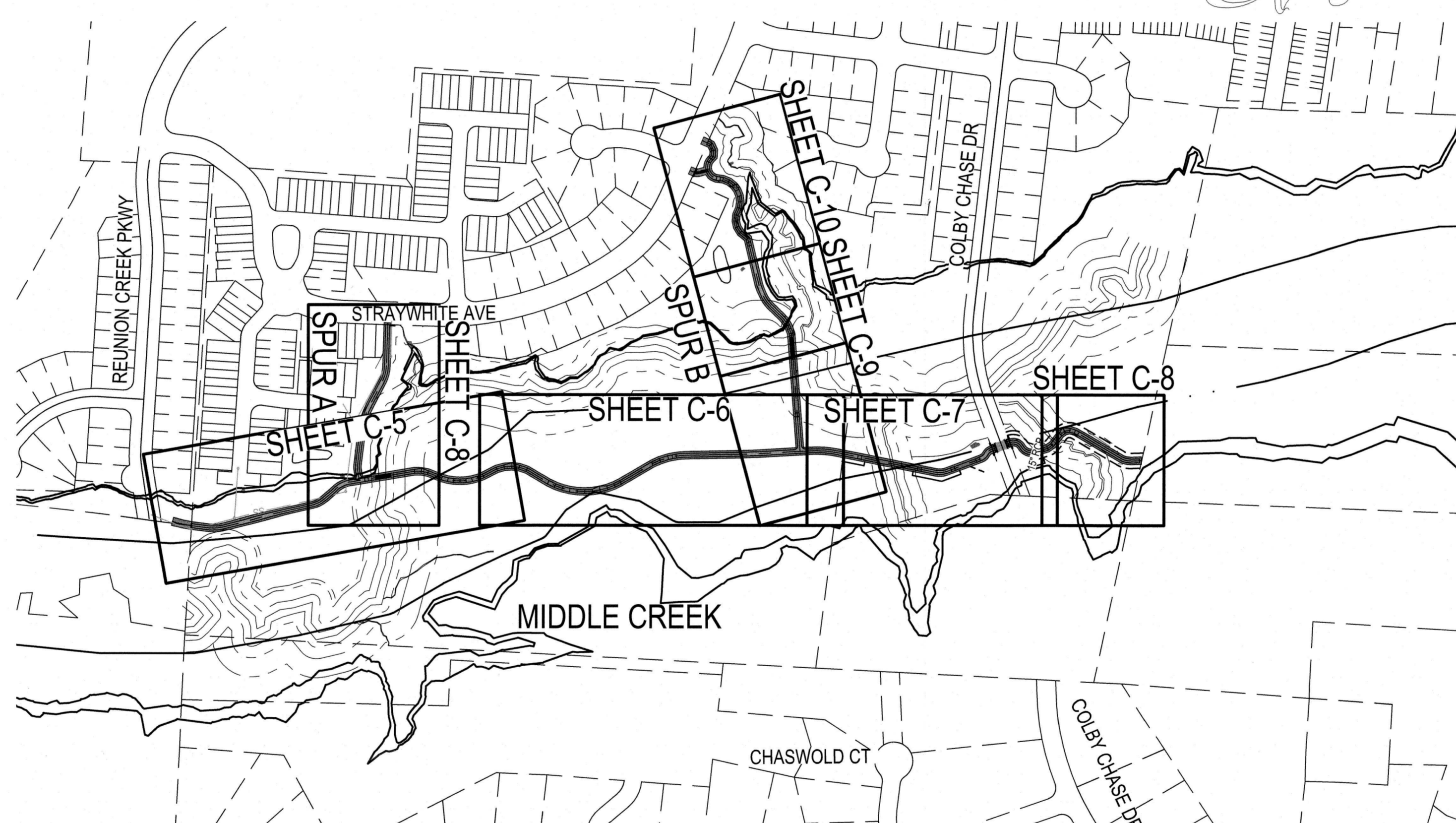
LAND QUALITY FIRST SUBMITTAL: MARCH 6, 2019

LAND QUALITY FINAL SUBMITTAL: JUNE 5, 2019

FINAL CONSTRUCTION PLAN SUBMITTAL: JUNE 17, 2019

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S6.1	MISCELLANEOUS DETAILS



BUILDING INSPECTIONS TOWN OF APEX CERTIFICATION
This drawing has been reviewed by the Town of Apex Building Inspections Department, and to the best of my knowledge and belief, conforms to the requirements established within the Town's Code of Ordinances and the North Carolina State Building Codes. However, this signature does not constitute a variance from any requirements contained in any federal, state, or local code, law, specification, rule or ordinance. The developer/engineer/contractor is solely responsible for meeting all applicable requirements.
By: *[Signature]* Date: 7/11/19

PUBLIC WORKS TRANSPORTATION TOWN OF APEX CERTIFICATION
This drawing has been reviewed by the Town of Apex, and to the best of my knowledge and belief, conforms to the requirements established in the Standard Specifications for Transportation Construction conforming to the requirements established in the Standard Specifications of the Town of Apex. However, this signature does not constitute a variance from any requirements contained in any federal, state, or local code, law, specification, rule or ordinance. The developer/engineer/contractor is solely responsible for meeting all applicable requirements.
By: *[Signature]* Date: 6/26/19

ELECTRIC TOWN OF APEX CERTIFICATION
This drawing has been reviewed by the Town of Apex Electric Department, and to the best of my knowledge and belief, conforms to the requirements established in the Standard Specifications and Construction Details and the Unified Development Ordinance of the Town of Apex. However, this signature does not constitute a variance from any requirements contained in any federal, state, or local code, law, specification, rule or ordinance. The developer/engineer/contractor is solely responsible for meeting all applicable requirements.
By: *[Signature]* Date: 7/2/19

WATER RESOURCES SOIL EROSION & SEDIMENTATION CONTROL TOWN OF APEX CERTIFICATION
This drawing has been reviewed by the Town of Apex, and to the best of my knowledge and belief, conforms to the requirements established in the Soil Erosion and Sedimentation Control Ordinance of the Town of Apex. However, this signature does not constitute a variance from any requirements contained in any federal, state, or local code, law, specification, rule or ordinance. The developer/engineer/contractor is solely responsible for meeting all applicable requirements.
By: *[Signature]* Date: 6/27/19

FIRE DEPARTMENT TOWN OF APEX CERTIFICATION
This drawing has been reviewed by the Town of Apex Fire Department, and to the best of my knowledge and belief, conforms to the requirements established within the Town's Standard Specifications, Fire Protection Ordinances, and the North Carolina International Fire Code. However, this signature does not constitute a variance from any requirements contained in any federal, state, or local code, law, specification, rule or ordinance. The developer/engineer/contractor is solely responsible for meeting all applicable requirements.
By: *[Signature]* Date: 6/27/19

WATER RESOURCES STORMWATER ENGINEERING TOWN OF APEX CERTIFICATION
This drawing has been reviewed by the Town of Apex Water Resources Stormwater & Utility Engineering Division and to the best of my knowledge and belief, conforms to the requirements established in the Standard Specifications and Construction Details and the Unified Development Ordinance of the Town of Apex. However, this signature does not constitute a variance from any requirements contained in any federal, state, or local code, law, specification, rule or ordinance. The developer/engineer/contractor is solely responsible for meeting all applicable requirements. This signature serves as the stormwater permit for this project.
By: *[Signature]* Date: 6/27/19

PARKS, RECREATION, AND CULTURAL RESOURCES TOWN OF APEX CERTIFICATION
These plans have been reviewed by the Town of Apex, and to the best of my knowledge and belief, conform to representations made by the developer to myself and the Parks, Recreation, and Cultural Resource Advisory Commission consistent with the projects requirements for public Parks and Recreation, either in total or in part, as outlined in Section 7.3 of the Town's Unified Development Ordinance and Article IV, Section 19 of the Town Code. However, this signature does not constitute a variance from any requirements contained in any federal, state, or local code, law, specification, rule or ordinance. The developer/engineer/contractor is solely responsible for meeting all applicable requirements.
By: *[Signature]* Date: 6/27/19

WATER RESOURCES UTILITY ENGINEERING TOWN OF APEX CERTIFICATION
This drawing has been reviewed by the Town of Apex Water Resources Department, and to the best of my knowledge and belief, conforms to the requirements established in the Standard Specifications and Construction Details of the Town of Apex. However, this signature does not constitute a variance from any requirements contained in any federal, state, or local code, law, specification, rule or ordinance. The developer/engineer/contractor is solely responsible for meeting all applicable requirements.
By: *[Signature]* Date: 6/27/19

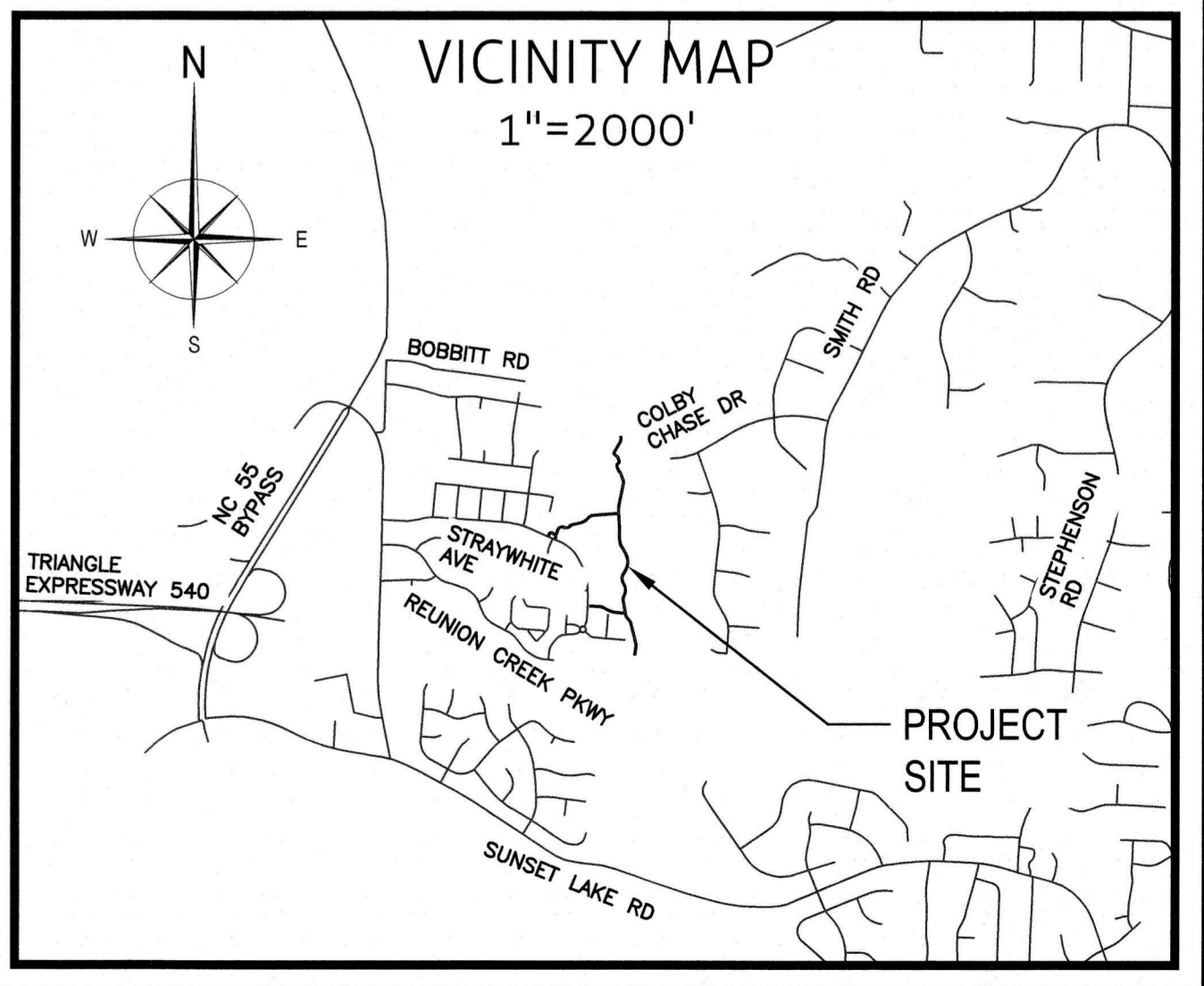
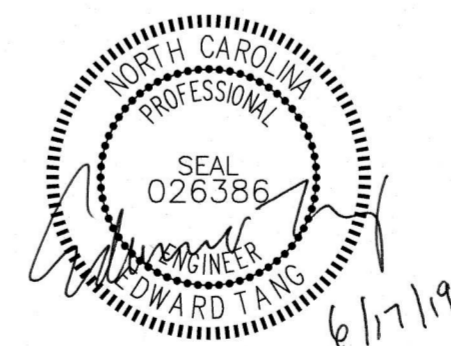
PLANNING/ZONING TOWN OF APEX CERTIFICATION
This construction drawing has been reviewed by the Town of Apex Planning Department, and to the best of my knowledge and belief, conforms to the Subdivision or Site Plan that was approved by the Town of Apex Board of Commissioners, and meets the Town of Apex Zoning, Subdivision, or Unified Development Ordinance. This signature does not constitute a variance from any requirements of the originally approved Subdivision or Site Plan cited above, or any federal, state, or local code, law, specification, rule, guideline, or ordinance. It is the sole responsibility of the owner/developer, or any of his agents or contract professionals to ensure that this construction plan meets all the aforementioned requirements.
By: *[Signature]* Date: 7/10/19

WATER RESOURCES UTILITY ENGINEERING TOWN OF APEX CERTIFICATION
This drawing has been reviewed by the Town of Apex Water Resources Department, and to the best of my knowledge and belief, conforms to the requirements established in the Standard Specifications and Construction Details of the Town of Apex. However, this signature does not constitute a variance from any requirements contained in any federal, state, or local code, law, specification, rule or ordinance. The developer/engineer/contractor is solely responsible for meeting all applicable requirements.
By: *[Signature]* Date: 6/27/19

PUBLIC INFRASTRUCTURE TABLE

WATER LINES	0 LF		
SEWER LINES	0 LF		
CURB & GUTTER	0 LF		
STORM DRAIN	0 LF		
GREENWAY	3,969 LF	@ \$1.35/LF	\$5,358.15
SIDEWALK	75 LF	@ \$1.35/LF	\$101.25
NEW STREETS	0 LF		

LINEAR PROJECT STORMWATER MANAGEMENT NOTE
THIS PROJECT MEETS THE SPIRIT AND INTENT OF SECTION E-5 OF THE NORTH CAROLINA DIVISION OF ENVIRONMENTAL QUALITY (DEQ) BMP MANUAL FOR LINEAR TRANSPORTATION PROJECTS. THE TOWN OF APEX IS THE OWNER AND DEVELOPER OF THIS GREENWAY SYSTEM THAT IS NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT. THE GREENWAY IS BEING CONSTRUCTED WITHIN AN EXISTING GREENWAY EASEMENT CORRIDOR FOR THE PURPOSES OF PROVIDING A LINEAR PEDESTRIAN CORRIDOR FOR PUBLIC BENEFIT AS PART OF THE WAKE COUNTY GREENWAY PLAN.



PREPARED BY:



WithersRavenel
Engineers | Planners | Surveyors

115 MacKanan Drive | Cary, NC 27511 | t: 919.469.3340 | license #: C-0832 | www.withersravenel.com

DEVELOPER/OWNER

TOWN OF APEX
73 HUNTER STREET
APEX, NC 27502
919-249-3400

ATTN: ANGELA REINCKE

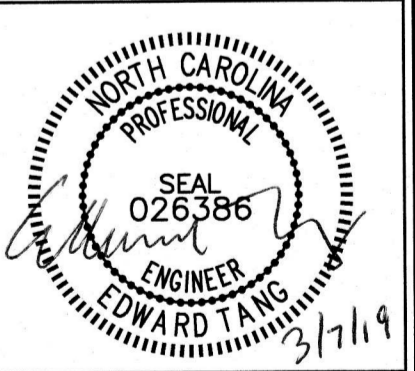
K:\1717-0750170753-Apex - Middle Creek Greenway\PROJECT\DWG\CONSTR SHEET.dwg - Monday, June 17, 2019 12:52:26 PM - TANG, ED

**MIDDLE CREEK GREENWAY
PHASE 2**

APEX, NC

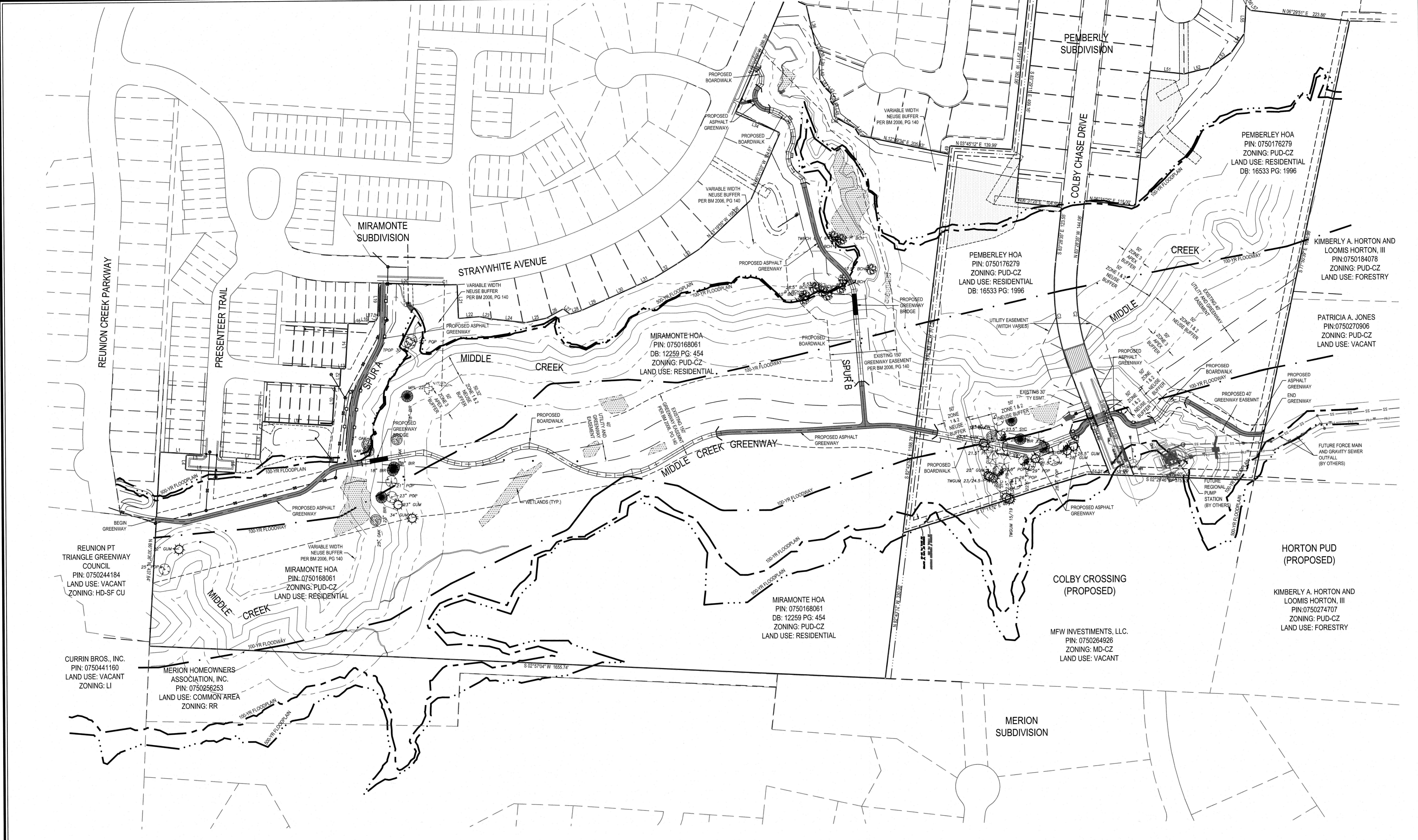
OVERALL SITE PLAN

Job No. 02170753.00 Drawn By W&R
Date 9/4/2018 Designer W&R



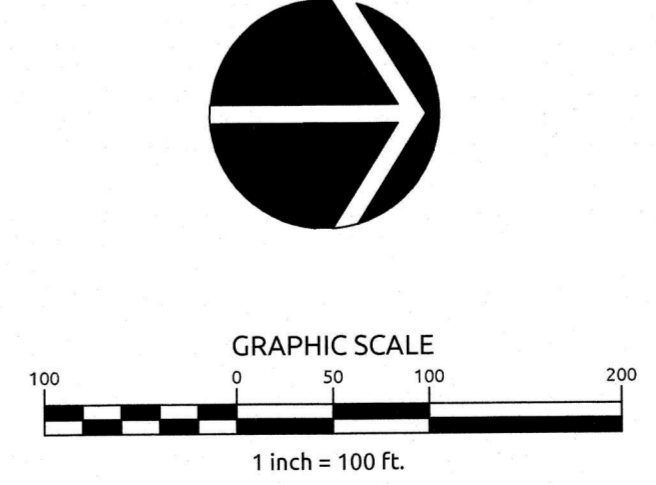
Revisions		
1	REVISED PER TOWN OF APEX COMMENTS #1	10/11/18
2	REVISED PER TOWN OF APEX COMMENTS #2	10/26/18
3	CONSTRUCTION PLAN SUBMITTAL	1/2/2019
4	FINAL CONSTRUCTION PLANS	3/7/2019

Sheet No.
C-4



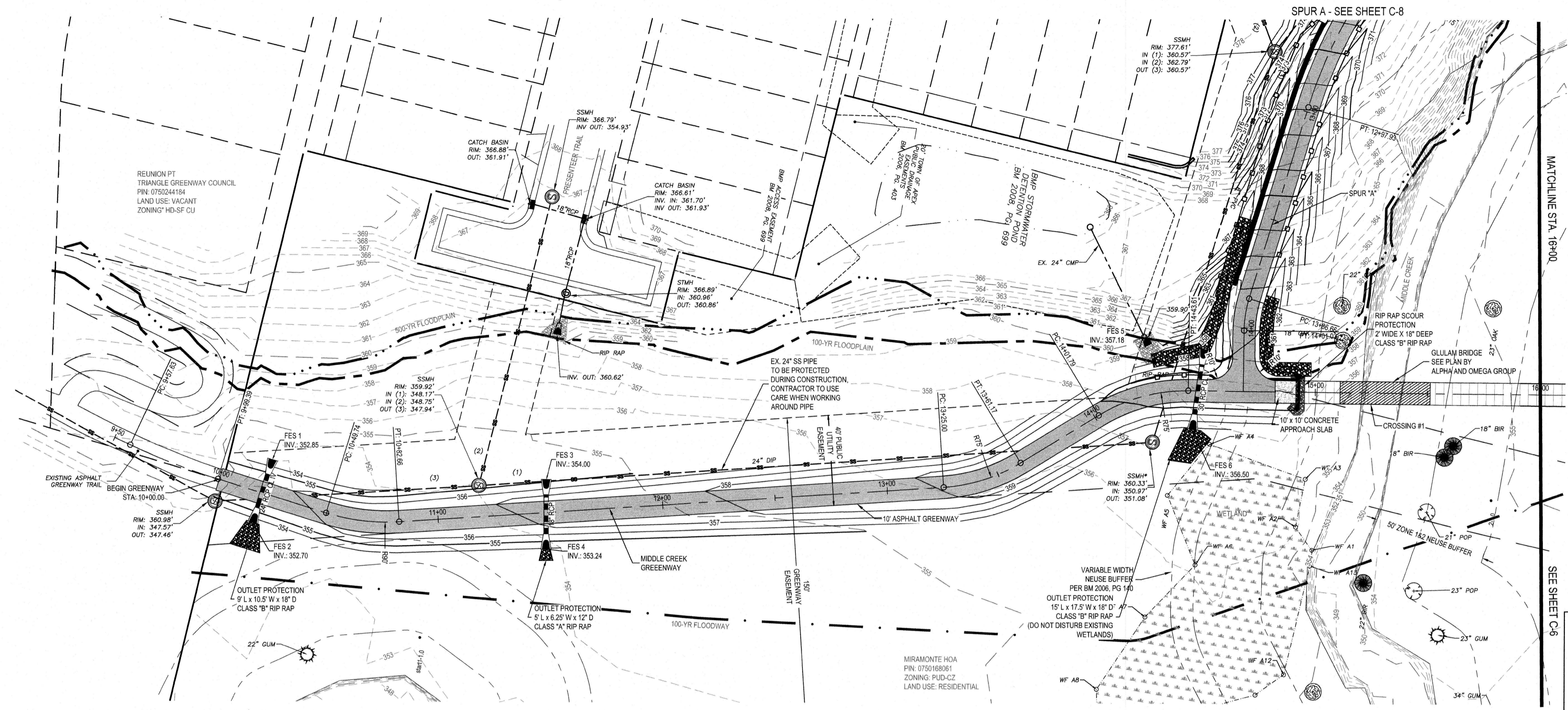
LINE TABLE			LINE TABLE			CURVE TABLE				
LINE	DIRECTION	DISTANCE	LINE	DIRECTION	DISTANCE	CURVE	RADIUS	LENGTH	CHORD	BEARING
L1	N 03°42'00" E	95.04	L30	N 23°48'19" W	77.05	C1	365.00	56.26	56.27	S 00°03'36" W
L2	S 86°19'31" E	5.42	L31	N 23°48'27" W	43.83	C2	476.00	223.64	221.58	N 83°02'06" E
L3	S 03°04'29" W	38.50	L32	N 31°00'23" W	58.89	C3	526.00	249.79	244.91	N 83°02'06" E
L4	S 86°13'31" E	33.00	L33	N 33°27'24" W	60.71					
L5	N 03°46'29" E	113.00	L34	S 23°48'57" W	110.00					
L6	N 86°13'31" W	33.00	L35	N 23°48'57" E	89.14					
L7	N 03°46'29" E	53.00	L36	N 77°04'36" E	84.65					
L8	N 86°13'31" W	86.00	L37	N 60°20'40" E	3.07					
L9	N 03°46'29" E	152.25	L38	N 72°00'45" E	20.69					
L10	N 86°13'31" W	86.50	L39	N 75°43'00" W	16.25					
L11	N 03°46'29" E	11.59	L40	N 67°09'15" E	33.18					
L12	N 86°13'31" W	40.00	L41	N 58°03'54" E	20.32					
L13	N 03°46'29" E	10.21	L42	N 44°17'25" E	20.28					
L14	N 86°13'31" W	102.25	L43	N 76°35'01" W	15.30					
L15	N 03°46'29" E	49.47	L44	S 18°30'01" E	15.30					
L16	N 86°13'31" W	5.00	L45	N 37°33'11" E	27.07					
L17	N 03°46'29" E	75.92	L46	N 58°54'18" E	5.66					
L18	N 86°13'31" W	15.25	L47	N 28°43'37" E	48.59					
L19	N 03°46'29" E	76.86	L48	N 69°52'00" E	19.62					
L20	N 86°13'31" W	113.83	L49	N 62°41'12" W	18.78					
L21	S 86°10'27" W	76.19	L50	N 88°04'20" E	20.01					
L22	N 04°28'37" W	48.36	L51	N 06°31'25" E	76.86					
L23	N 11°56'30" E	28.50	L52	N 13°12'45" W	59.47					
L24	N 05°31'48" E	78.03	L53	N 34°43'05" W	59.47					
L25	N 11°57'34" W	46.91	L54	N 84°52'20" W	51.53					
L26	N 28°22'52" W	43.95	L55	N 68°14'31" W	63.54					
L27	N 37°24'52" E	19.50	L56	N 61°11'40" E	5.87					
L28	N 17°23'14" W	27.83	L57	N 43°05'09" E	10.43					
L29	N 23°42'42" W	56.85								

- NOTES:**
- 1) FIELD SURVEY OF AREAS INSIDE THE DISTURBED LIMITS BY WITHERSRAVENEL DATED 6/14/2018.
 - 2) ALL OTHER TOPO SHOWN IS BASED ON GIS DATA.
 - 3) WETLANDS EXIST WITHIN THE GREENWAY CORRIDOR.
 - 4) SITE IS WITHIN THE SECONDARY WATERSHED OVERLAY DISTRICT.

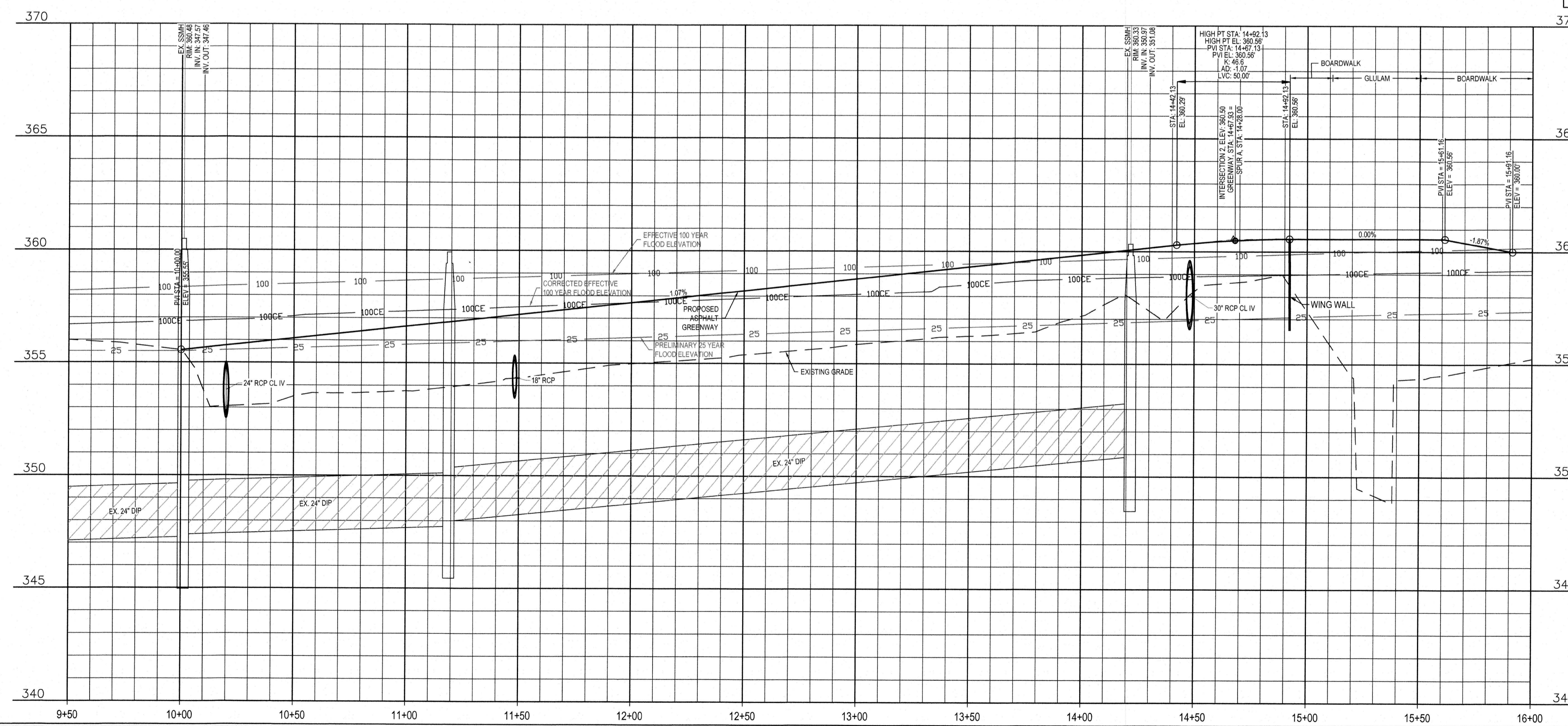


The signatures affixed below certify that this sheet has been reviewed and approved solely per the certifications signed on the cover sheet of these construction plans.

<i>Russell D. Delt</i> RW - Transportation Date: 7/2/19	<i>W&R</i> Date: N/A	WR - Stormwater Date: N/A
<i>Samuel A. Curran</i> Building Inspections Date: N/A	<i>Samuel A. Curran</i> Planning Date: 7/2/19	<i>Samuel A. Curran</i> Date: 7/2/19
WR - Utility Engineering Date: N/A	<i>Samuel A. Curran</i> Planning - Transportation Date: 7/2/19	
Electric Date: N/A	<i>Samuel A. Curran</i> Fire Date: N/A	<i>Samuel A. Curran</i> Parks, Recreation & Cultural Res. Date: 6/27/19
WR - S&E Date: N/A		



GREENWAY

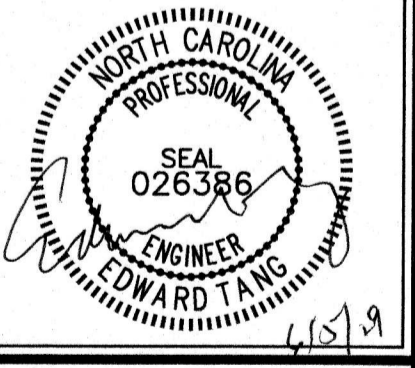


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<i>[Signature]</i> PW - Transportation Date: 6/21/19	<i>[Signature]</i> WR - Stormwater Date: 7/10/19
<i>[Signature]</i> Building Inspections Date: 7/10/19	<i>[Signature]</i> Planning Date: 7/10/19
<i>[Signature]</i> WR - Utility Engineering Date: 6/21/19	<i>[Signature]</i> Planning - Transportation Date: 6/21/19
<i>[Signature]</i> Electric Date: N/A	<i>[Signature]</i> Fire Date: 6/21/19
<i>[Signature]</i> WR - S&E Date: N/A	<i>[Signature]</i> Parks, Recreation & Cultural Res. Date: 6/21/19

SCALE:
1" = 30' HORIZ.
1" = 3' VERT.

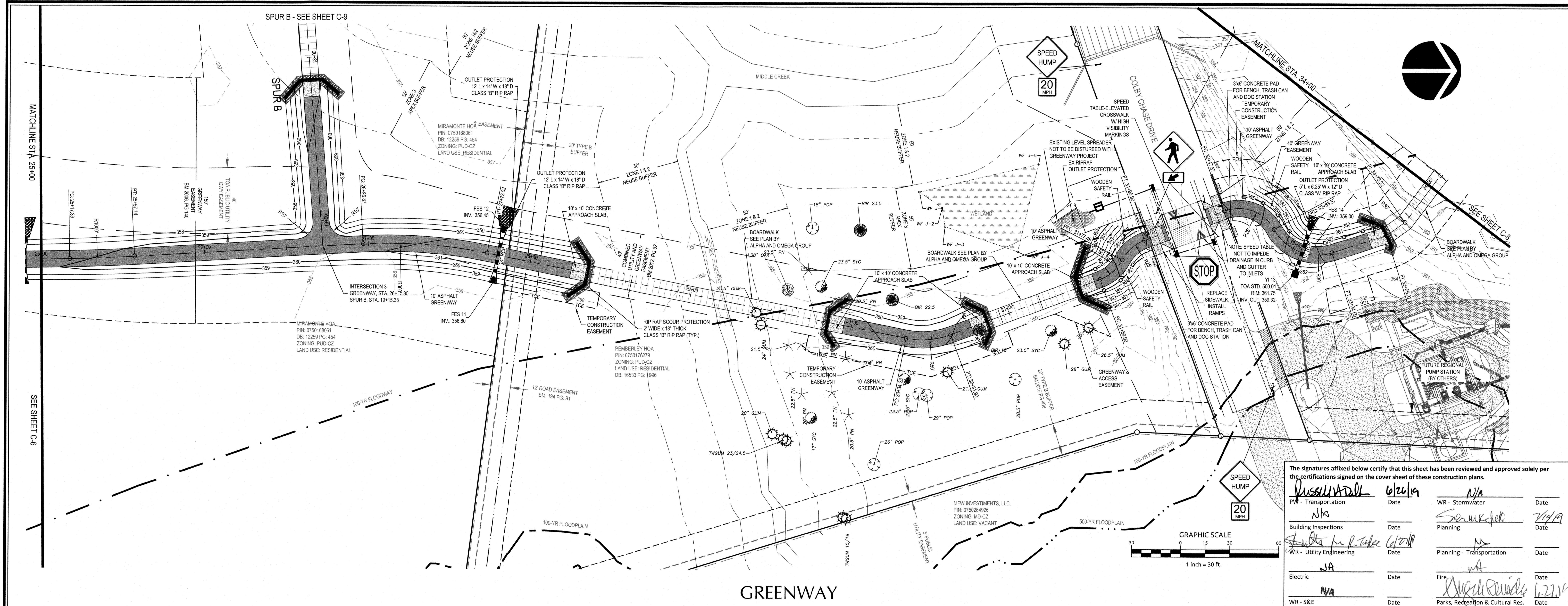
Job No. 02170753.00
Date 9/4/2018
Drawn By W&R
Designer W&R



Revisions

1	REVISED PER TOWN OF APEX COMMENTS #1	10/11/18
2	REVISED PER TOWN OF APEX COMMENTS #2	10/26/18
3	CONSTRUCTION PLAN SUBMITTAL	1/2/2019
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5	REVISED PER DEMLR REVIEW	6/4/19

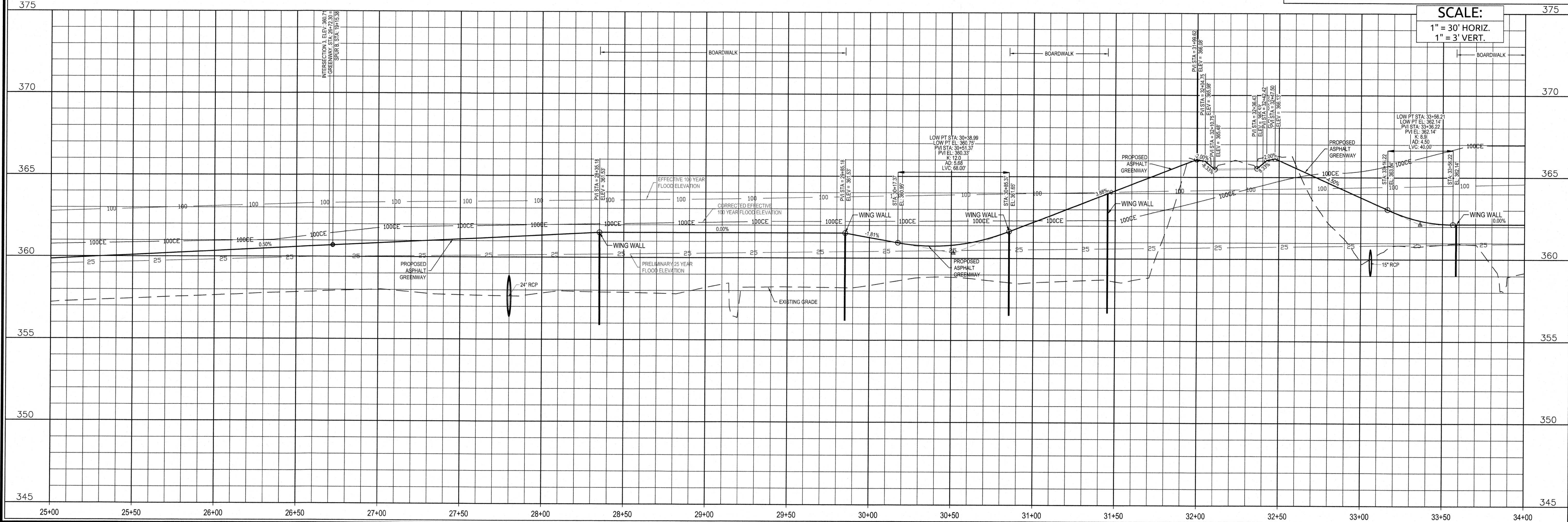
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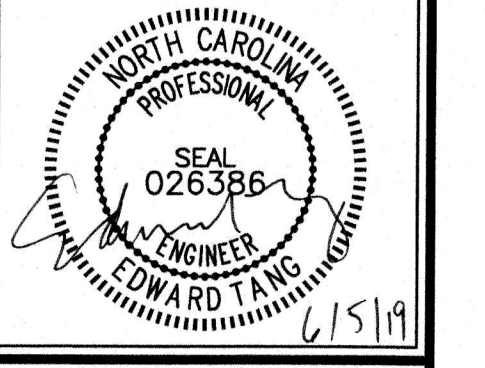
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<i>[Signature]</i> PW - Transportation Date: 6/26/19	<i>[Signature]</i> WR - Stormwater Date: 7/19/19
<i>[Signature]</i> Building Inspections Date: 6/27/19	<i>[Signature]</i> Planning - Transportation Date: 7/19/19
<i>[Signature]</i> WR - Utility Engineering Date: 6/27/19	<i>[Signature]</i> Fire Date: 6/27/19
<i>[Signature]</i> Electric Date: 6/27/19	<i>[Signature]</i> Parks, Recreation & Cultural Res. Date: 6/27/19
<i>[Signature]</i> WR - S&E Date: 6/27/19	

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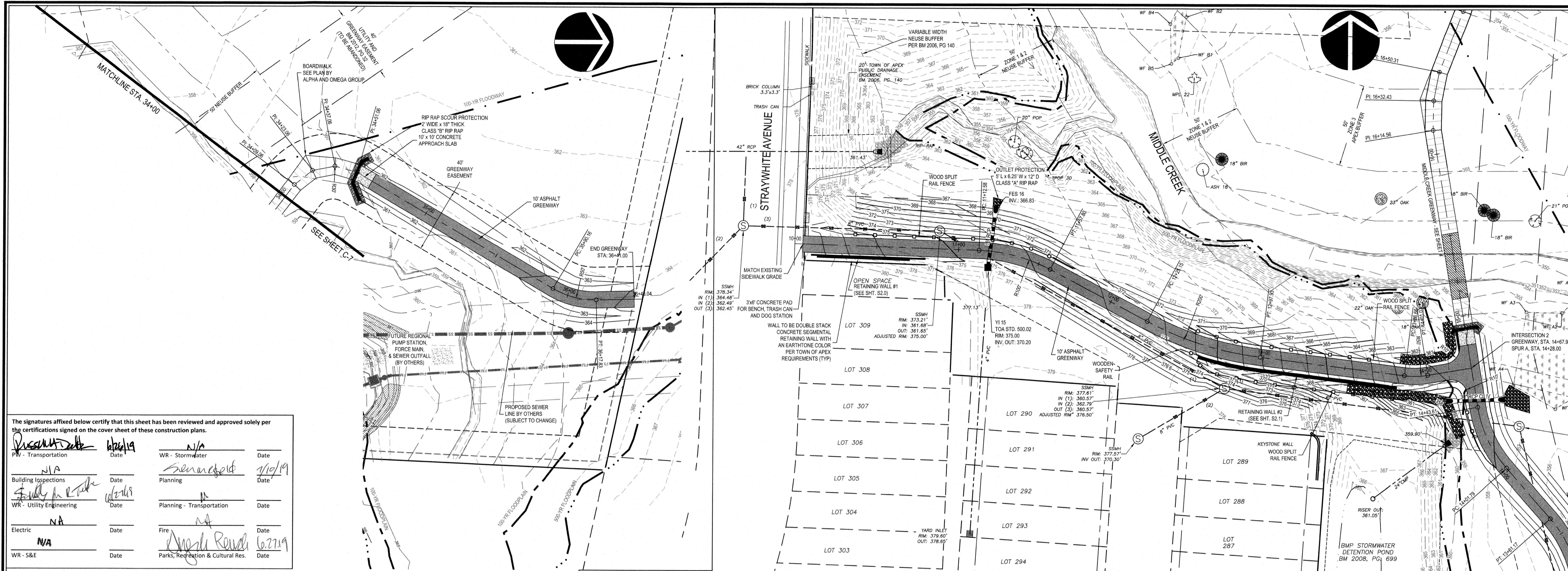
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M:\17-07561\170753.apex - middle ck greenway\p2\CAD\road drawing\C-7 GREENWAY 25+00 - 34+00 PLAN PROFILE.dwg, Wednesday, June 6, 2019 11:27:49 AM - FERNA DEBRA

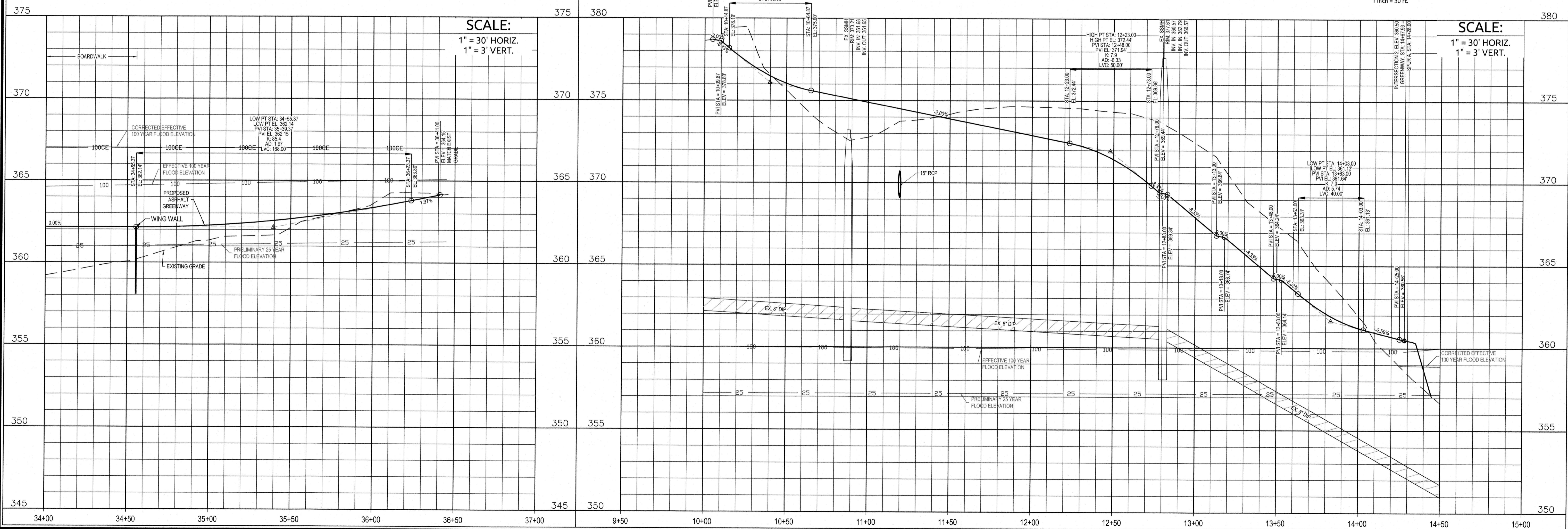
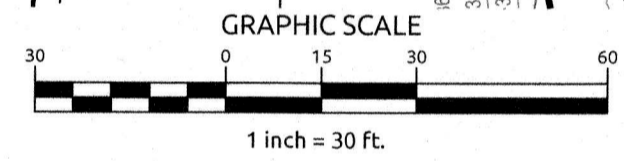


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P.V. - Transportation <i>[Signature]</i> Date: 6/26/19	WR - Stormwater Date: N/A
Building Inspections Date: N/A	Planning <i>[Signature]</i> Date: 7/10/19
WR - Utility Engineering Date: 6/27/19	Planning - Transportation Date: N/A
Electric Date: N/A	Fire Date: N/A
WR - S&E Date: N/A	Parks, Recreation & Cultural Res. <i>[Signature]</i> Date: 6/27/19

GREENWAY

SPUR A



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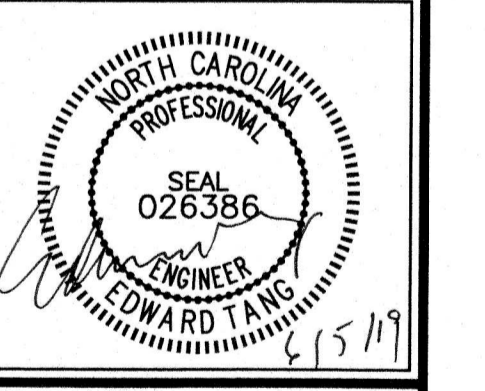
WithersRavenel
Engineers | Planners | Surveyors

115 MacKinnon Drive | Cary, NC 27511 | T: 919.469.3340 | License #: C-08321 | www.withersravenel.com

MIDDLE CREEK GREENWAY
PHASE 2
APEX, NC

GREENWAY
34+00 - 36+41
& SPUR A
PLAN PROFILE

Job No. 02170753.00 Drawn By W&R
Date 9/4/2018 Designer W&R

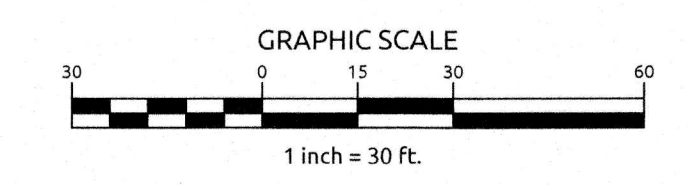
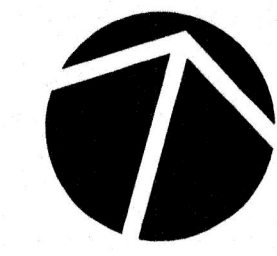
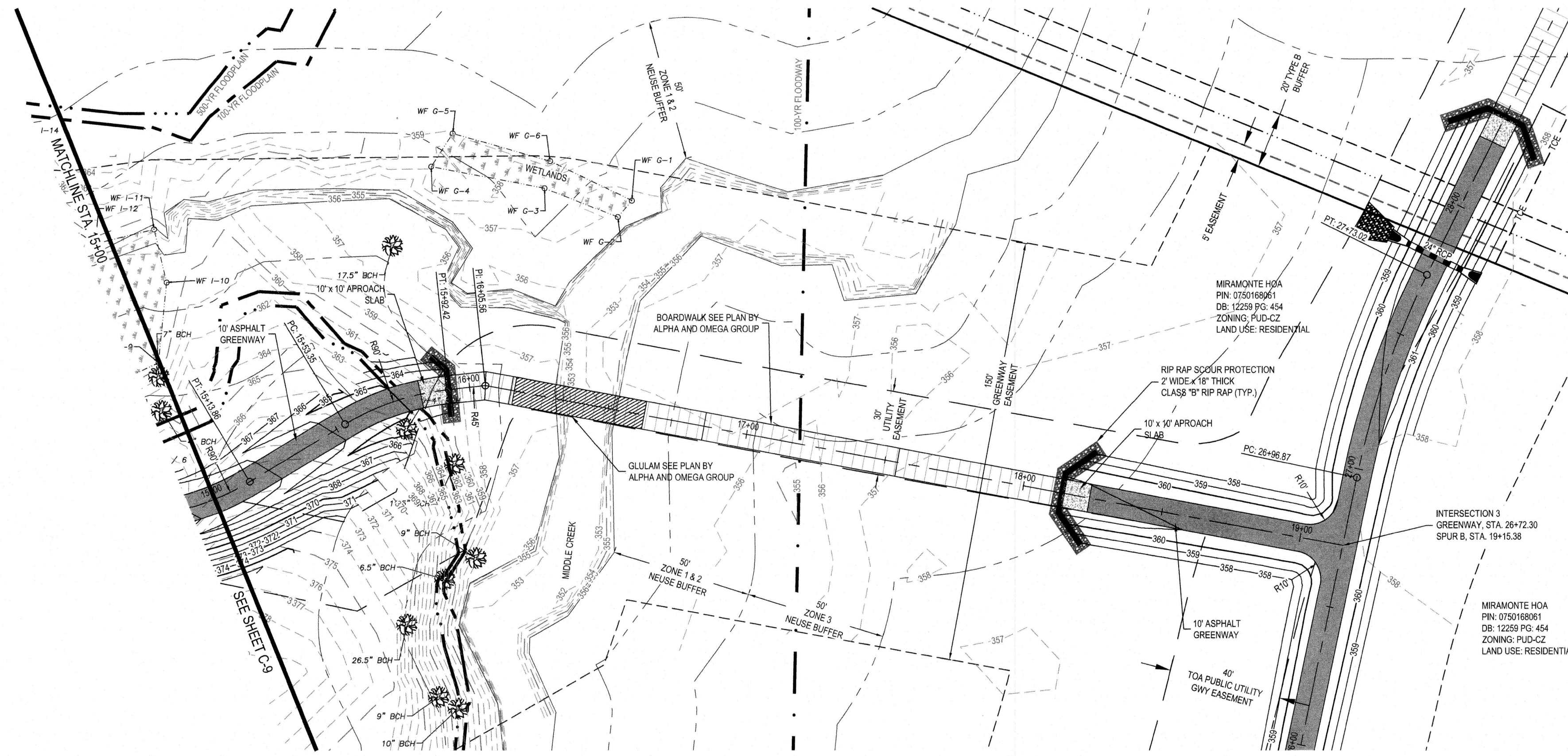


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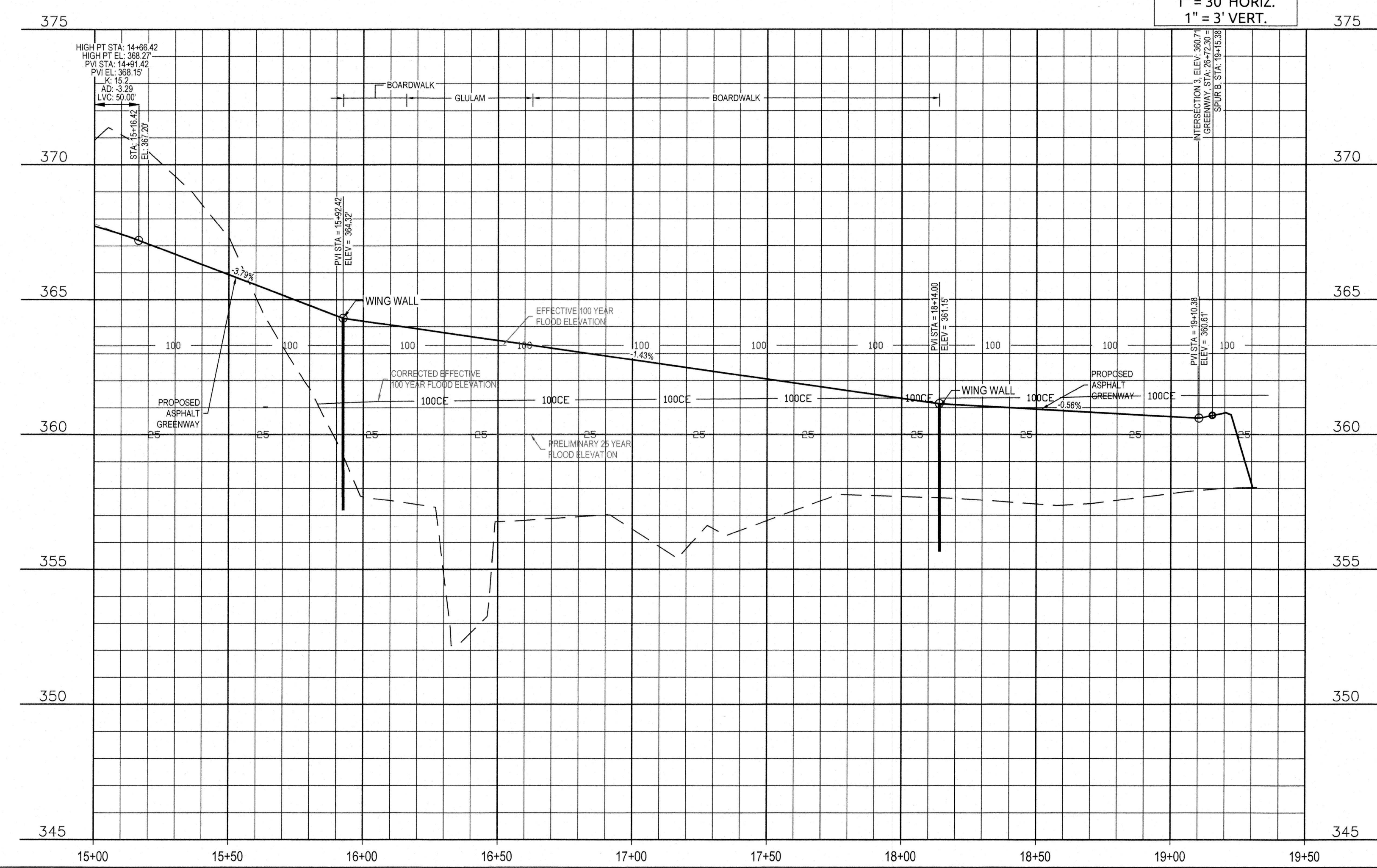
Sheet No.
C-8

N:\1717-0753\170753-rev1-middle-creek-greenway\17170753.dwg - middle-creek-greenway\17170753.dwg - Wednesday, June 5, 2019 11:26:36 AM - E:\ENR - DEBRA



SPUR B

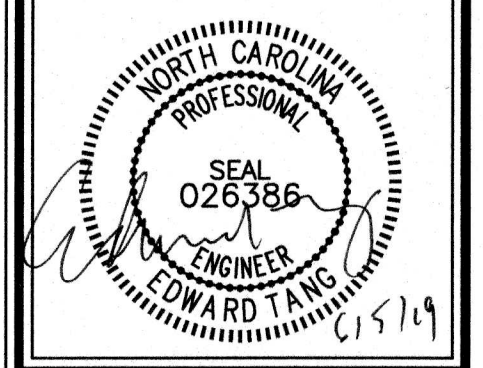
SCALE:
1" = 30' HORIZ.
1" = 3' VERT.



The signatures affixed below certify that this sheet has been reviewed and approved solely per the certifications signed on the cover sheet of these construction plans.

<i>[Signature]</i> PW - Transportation Date: 6/26/19	<i>[Signature]</i> WR - Stormwater Date: N/A
<i>[Signature]</i> Building Inspections Date: N/A	<i>[Signature]</i> Planning Date: 7/6/19
<i>[Signature]</i> WR - Utility Engineering Date: N/A	<i>[Signature]</i> Planning - Transportation Date: N/A
<i>[Signature]</i> Electric Date: N/A	<i>[Signature]</i> Fire Date: N/A
<i>[Signature]</i> WR - S&E Date: N/A	<i>[Signature]</i> Park, Recreation & Cultural Res. Date: 6/27/19

Job No. 02170753.00
Date 9/4/2018
Drawn By W&R
Designer W&R



Revisions	Date
1 REVISED PER TOWN OF APEX COMMENTS #1	10/11/18
2 REVISED PER TOWN OF APEX COMMENTS #2	10/26/18
3 CONSTRUCTION PLAN SUBMITTAL	1/2/2019
4 FINAL CONSTRUCTION PLANS	3/7/2019
5 REVISED PER DEDLR REVIEW	6/4/19

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