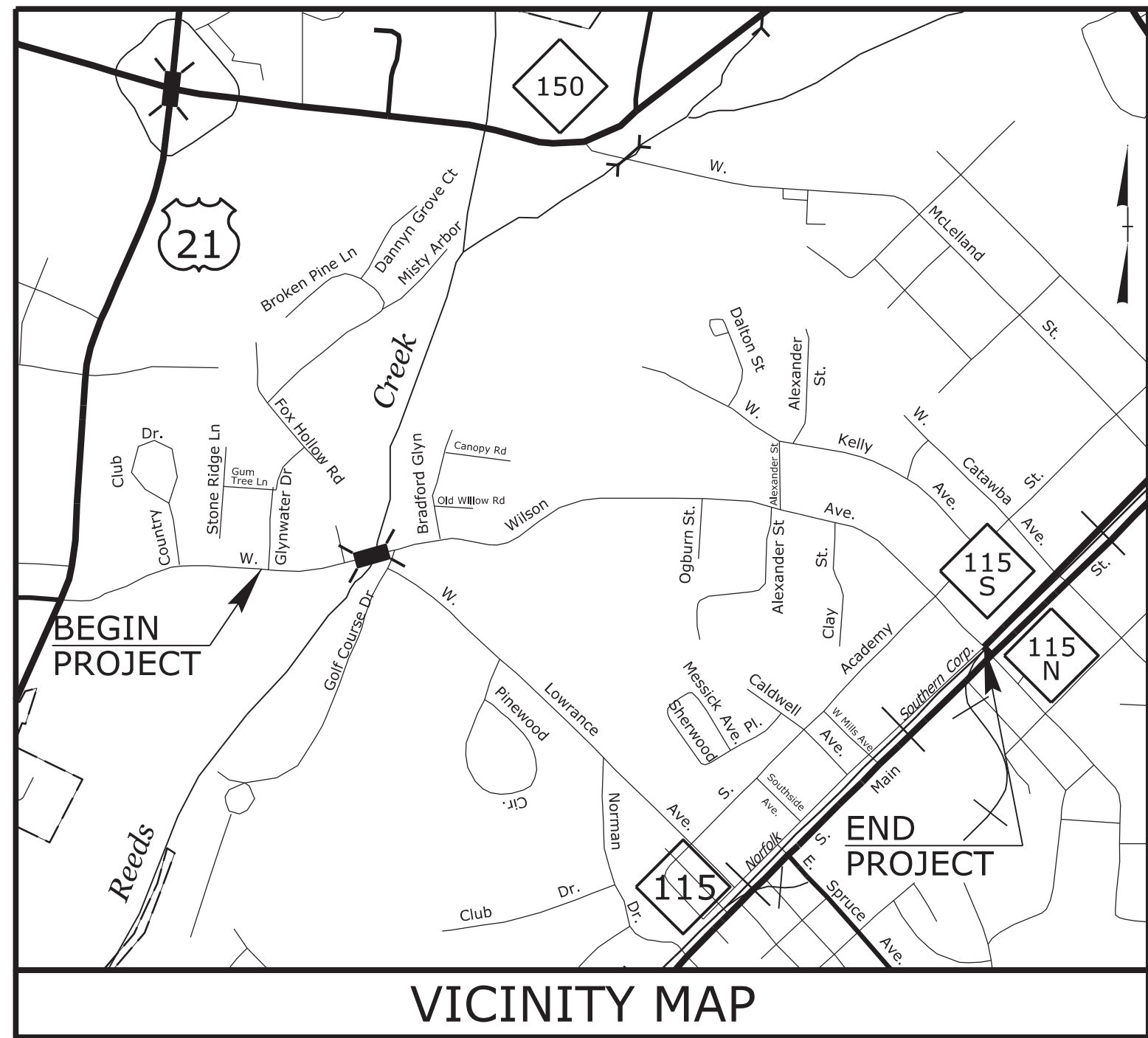




SEE SHEET 1A FOR INDEX OF SHEETS
SEE SHEET 1C FOR CONVENTIONAL SYMBOLS

TOWN OF MOORESVILLE
NORTH CAROLINA

WEST WILSON AVENUE
ROAD IMPROVEMENTS

LOCATION:
WEST WILSON AVENUE FROM US 21 TO
SOUTH BROAD STREET.

TYPE OF WORK:
GRADING, PAVING, DRAINAGE, STRUCTURES,
TRAFFIC CONTROL, PAVEMENT MARKINGS,
& EROSION CONTROL

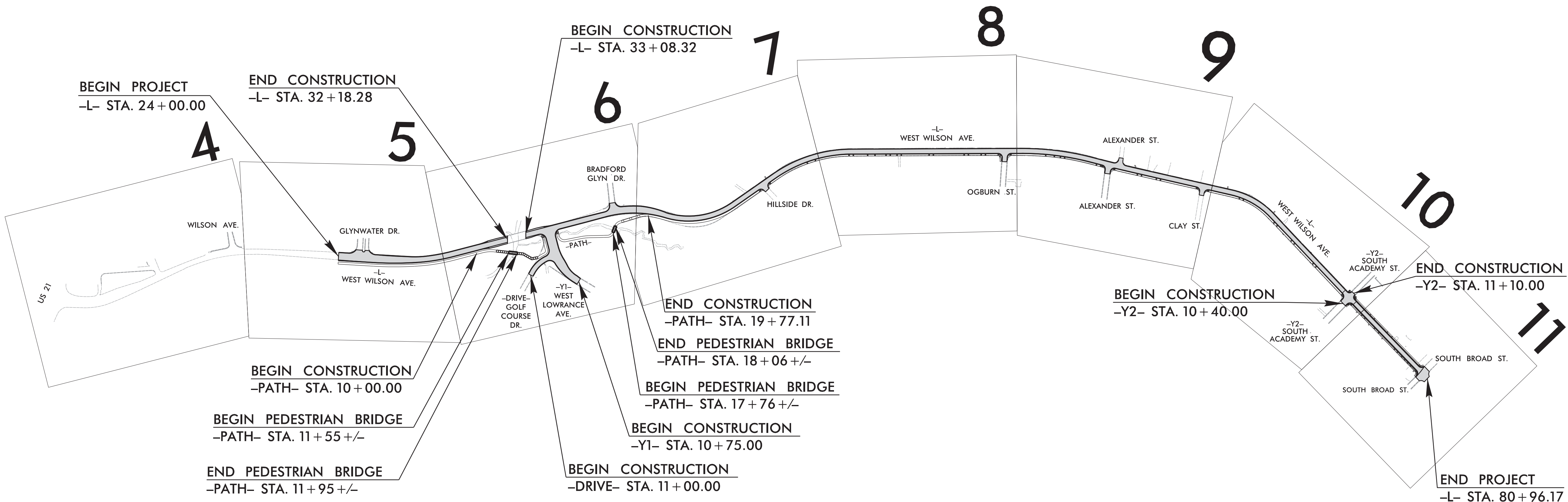


TOWN OF
MOORESVILLE

2523 CHARLOTTE HWY.
MOORESVILLE, NC 28117
704-663-7282

CONTACT:
JONATHAN YOUNG, PE

WEST WILSON AVENUE
ROAD IMPROVEMENTS
US 21 TO SOUTH BROAD STREET



SENIOR PROJECT ENGINEER Andy Young, PE PROJECT DESIGN ENGINEER Michael Burns, PE	PROJECT LENGTH
	LENGTH OF PROJECT = 1.079 MILES
GRAPHIC SCALES	
US 21 TO CLAY ST. DESIGN SPEED = 40 MPH	
CLAY ST. TO S. BROAD ST. DESIGN SPEED = 30 MPH	
PLANS 40 20 0 40 80	
PROFILE (HORIZONTAL) 40 20 0 40 80	
PROFILE (VERTICAL) 10 5 0 10 20	

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UNLESS ALL SIGNATURES COMPLETED

STEWART
ROADWAY
ENGINEER

NORTH CAROLINA
PROFESSIONAL
SEAL
034407
ENGINEER
ANDREW P. YOUNG
10/2/2020

vhb
VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27605

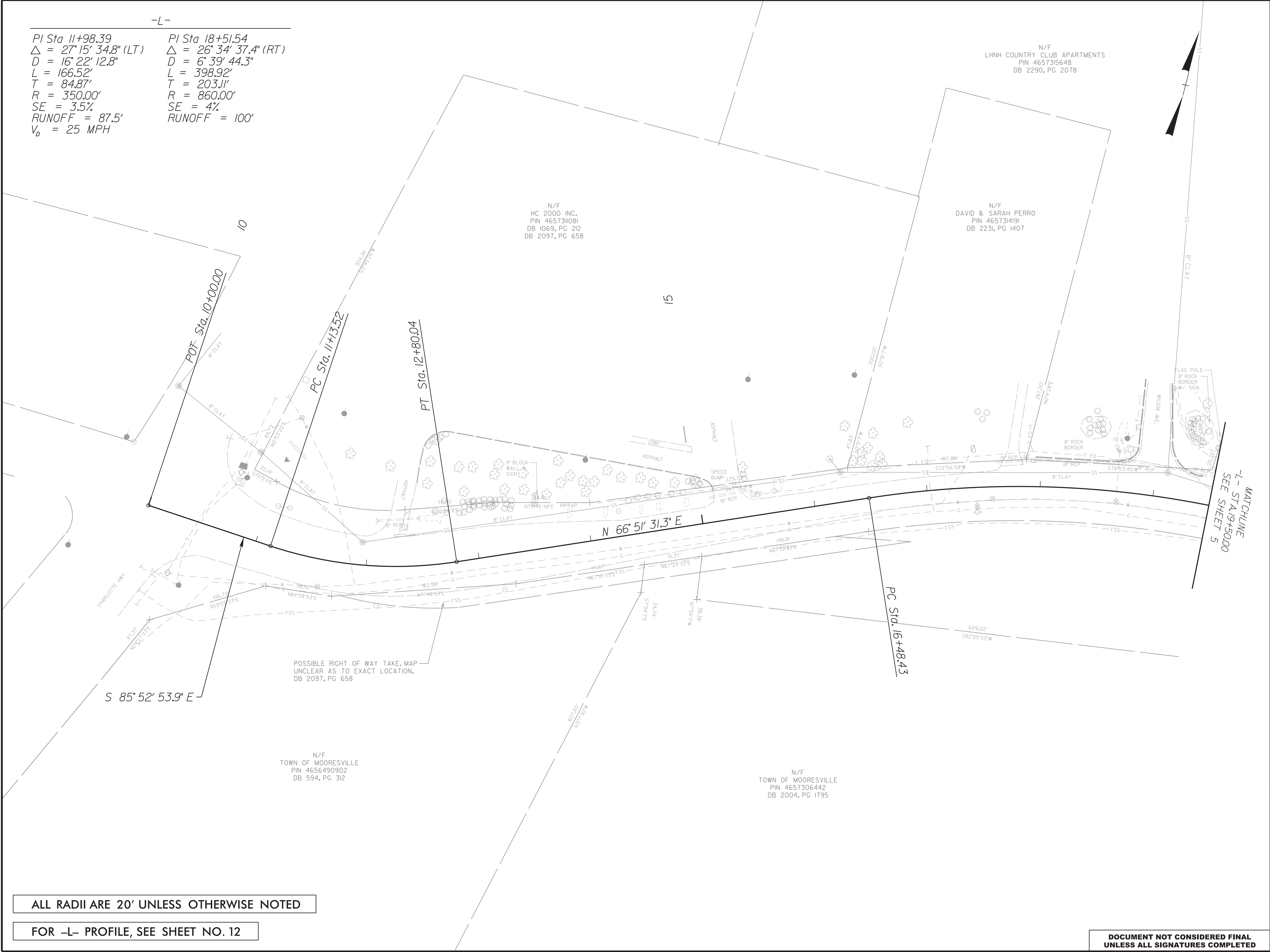
NORTH CAROLINA
PROFESSIONAL
SEAL
20147
ENGINEER
FRANK FLEMING
10/5/2020

NO.	DATE

PROJECT NO.:

301-16-14

SCALE: 1"=40'



-L-

PI Sta 11+98.39	PI Sta 18+51.54
$\Delta = 27^{\circ}15'34.8"$ (LT)	$\Delta = 26^{\circ}34'37.4"$ (RT)
D = 16' 22' 12.8"	D = 6' 39' 44.3"
L = 166.52'	L = 398.92'
T = 84.87'	T = 203.11'
R = 350.00'	R = 860.00'
SE = 3.5%	SE = 4%
RUNOFF = 87.5'	RUNOFF = 100'
V _d = 25 MPH	

ALL RADII ARE 20' UNLESS OTHERWISE NOTED

FOR -L- PROFILE, SEE SHEET NO. 12

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TOWN OF
MOORESVILLE

2523 CHARLOTTE HWY.
MOORESVILLE, NC 28117
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WEST WILSON AVENUE
ROAD IMPROVEMENTS
US 21 TO SOUTH BROAD STREET



STEWART

ROADWAY
ENGINEER



DocuSigned by:
Andrew P. Young
EF21D9DD08F4EF

12/2/2020



VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27605



DocuSigned by:
Frank Fleming
ABD4787727EC64

11/5/2020

DATE: OCTOBER 2020

REVISIONS:

NO.	DATE

PROJECT NO.:

301-16-14

SCALE: 1"=40'

4



TOWN OF
MOORESVILLE

2523 CHARLOTTE HWY.
MOORESVILLE, NC 28117
704-663-7282

CONTACT:
JONATHAN YOUNG, PE

WEST WILSON AVENUE
ROAD IMPROVEMENTS
US 21 TO SOUTH BROAD STREET



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1/2/2020

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VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27605

HYDRAULICS
ENGINEER



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Frank Fleming
10/5/2020

DATE: OCTOBER 2020

REVISIONS:

NO.	DATE

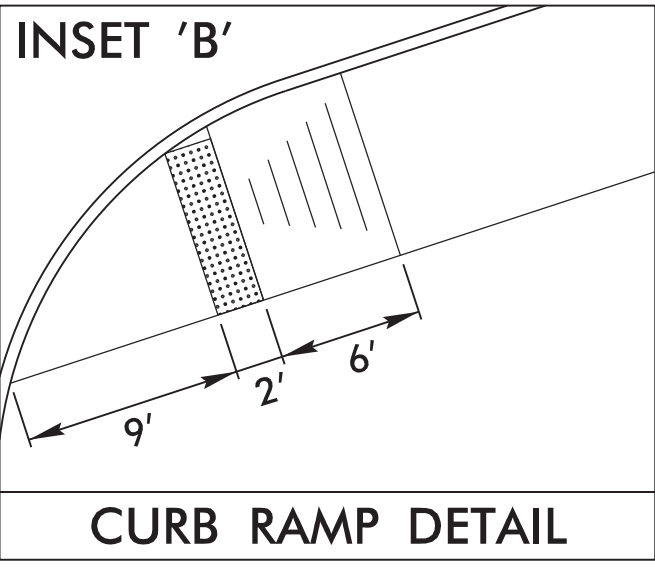
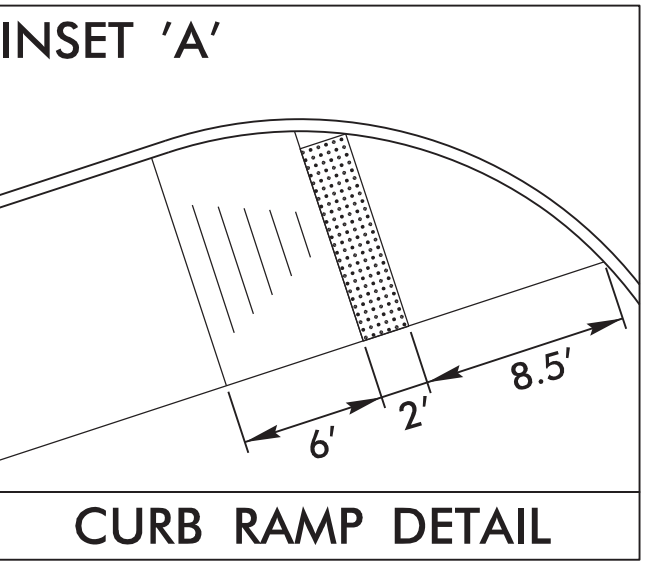
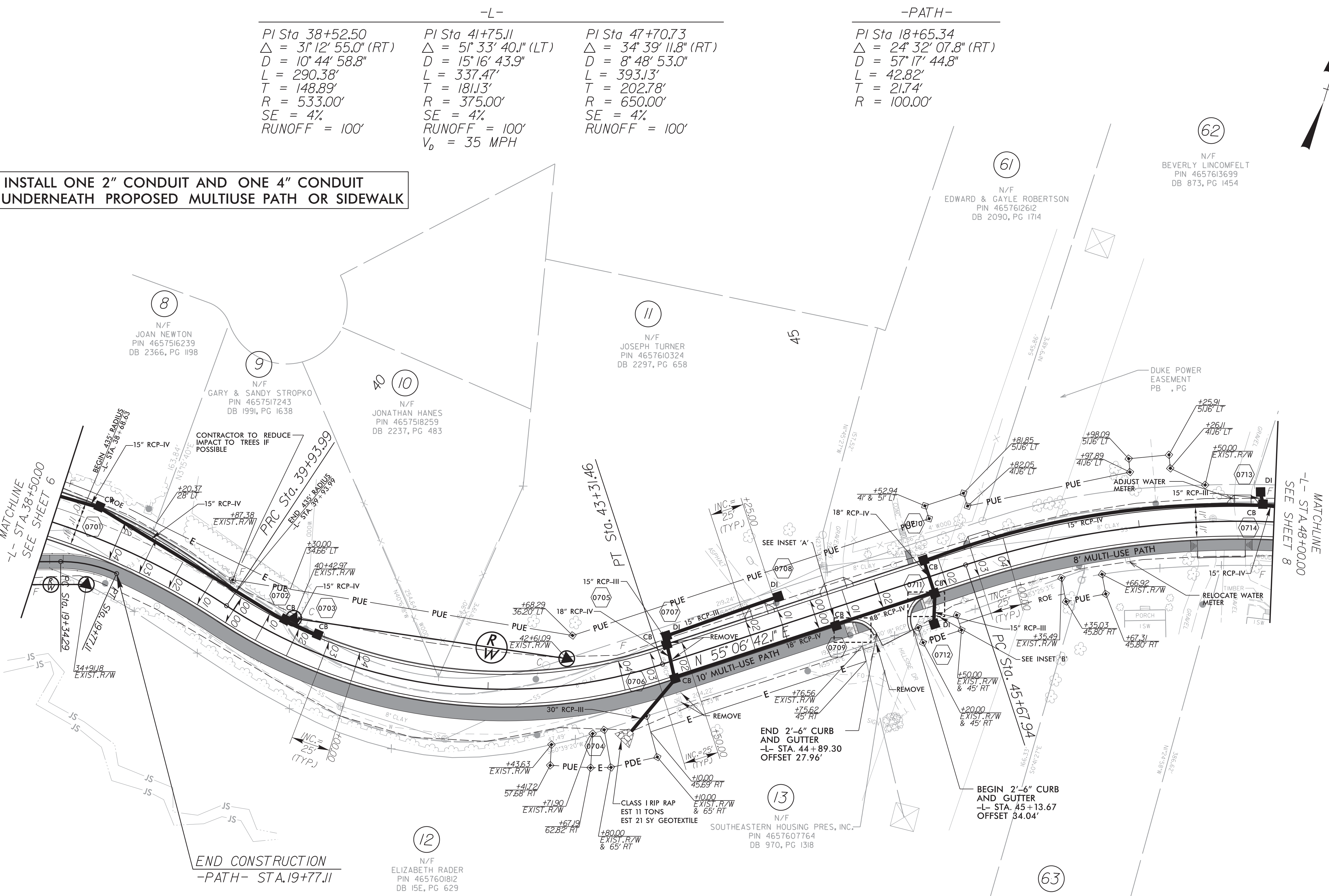
PROJECT NO.:

301-16-14

SCALE: 1"=40'

7

NOTE: INSTALL ONE 2" CONDUIT AND ONE 4" CONDUIT
UNDERNEATH PROPOSED MULTIUSE PATH OR SIDEWALK

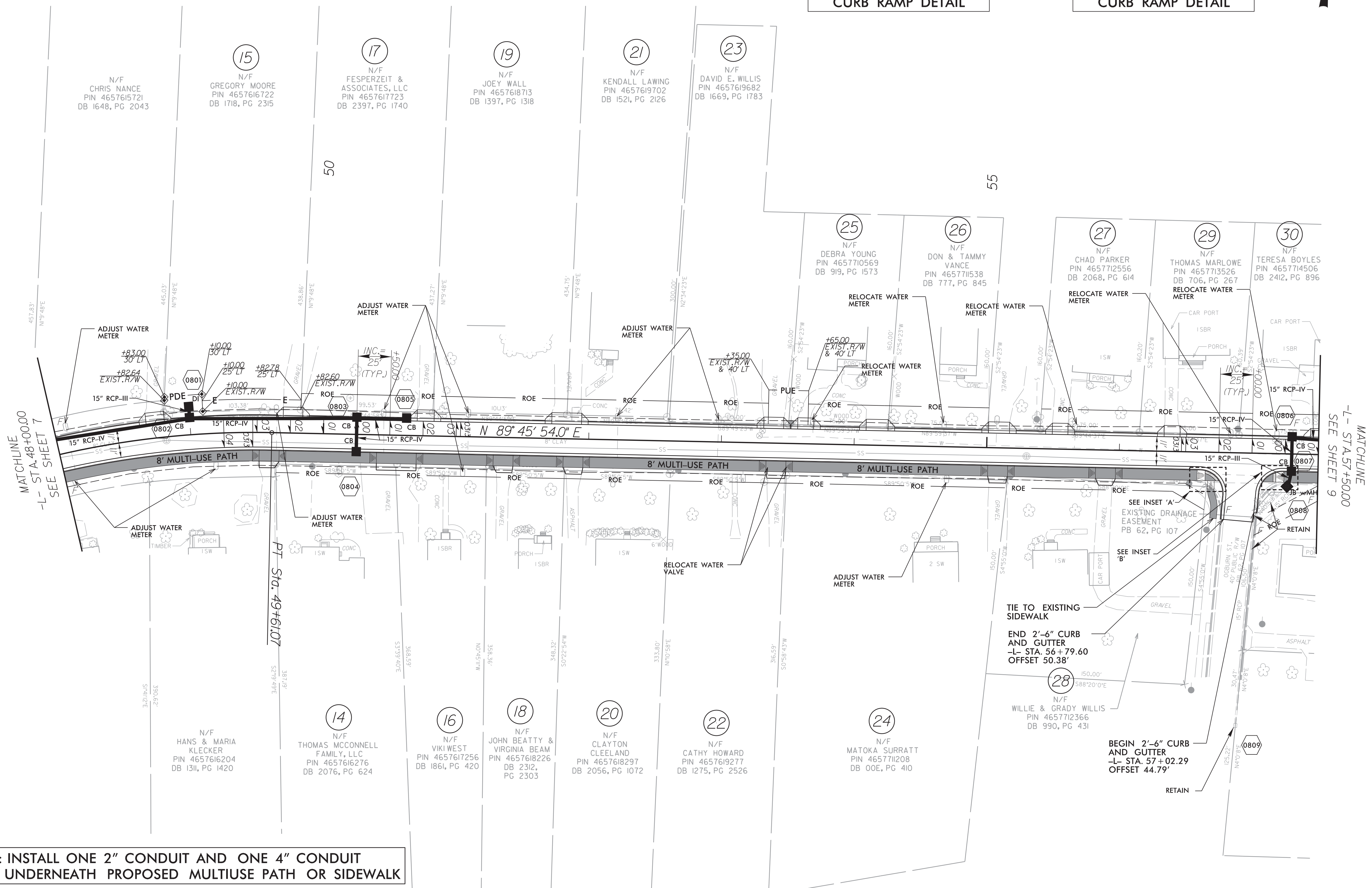
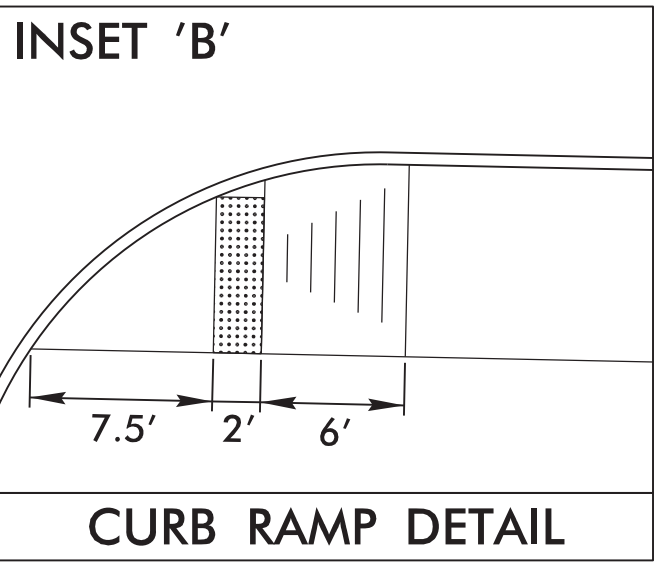
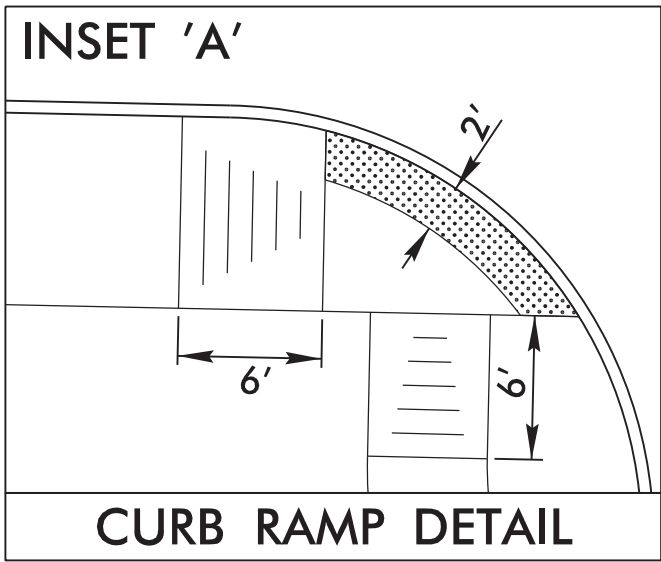


ALL RADII ARE 20' UNLESS OTHERWISE NOTED

FOR -L- PROFILE, SEE SHEET NO. 15

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

-L-
PI Sta 47+70.73
 $\Delta = 34' 39" 11.8" (RT)$
 $D = 8' 48' 53.0"$
 $L = 393.13'$
 $T = 202.78'$
 $R = 650.00'$
 $SE = 4\%$
 $RUNOFF = 100'$



NOTE: INSTALL ONE 2" CONDUIT AND ONE 4" CONDUIT
UNDERNEATH PROPOSED MULTIUSE PATH OR SIDEWALK

ALL RADII ARE 20' UNLESS OTHERWISE NOTED

FOR -L- PROFILE, SEE SHEET NO. 16

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UNLESS ALL SIGNATURES COMPLETED

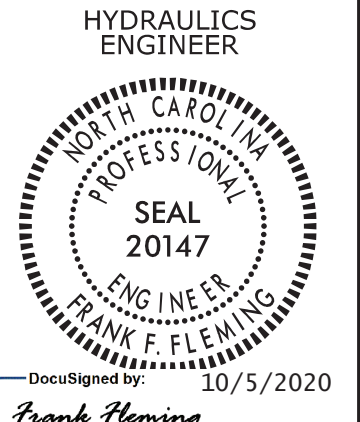
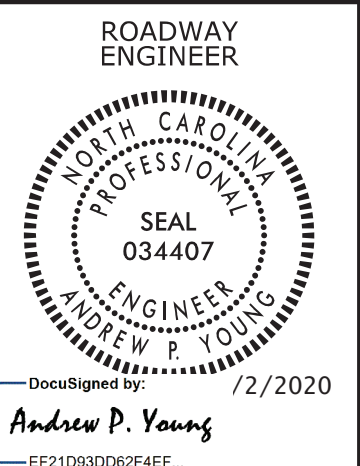


TOWN OF
MOORESVILLE

2523 CHARLOTTE HWY.
MOORESVILLE, NC 28117
704-663-7282

CONTACT:
JONATHAN YOUNG, PE

WEST WILSON AVENUE
ROAD IMPROVEMENTS
US 21 TO SOUTH BROAD STREET



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DATE: OCTOBER 2020

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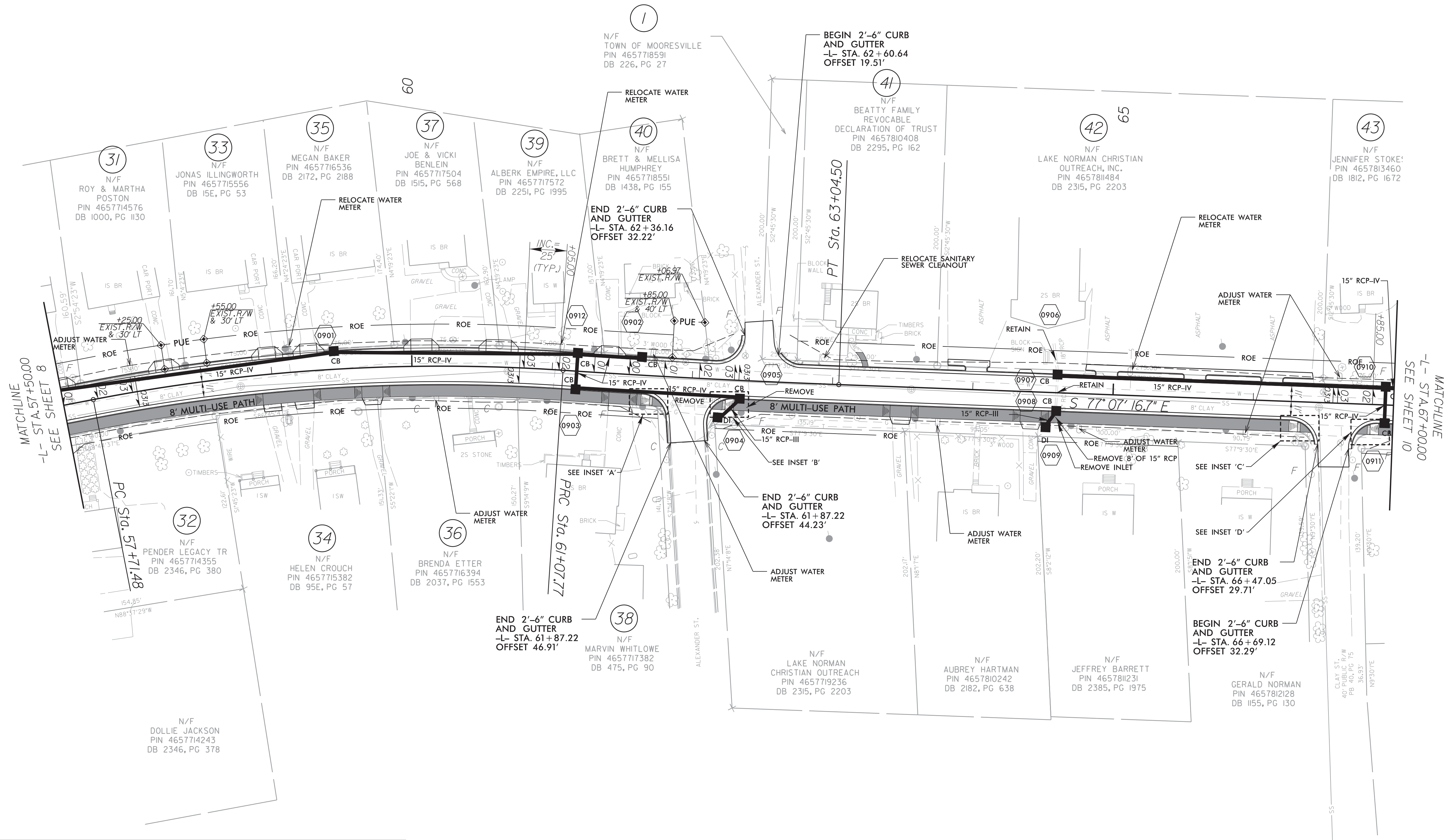
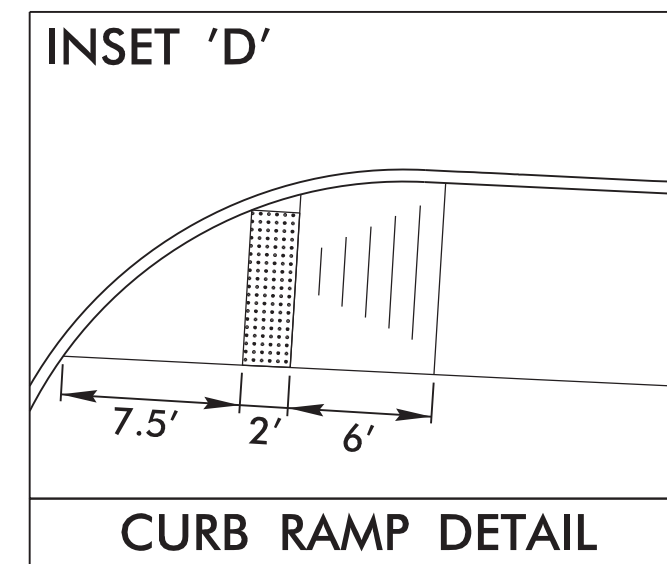
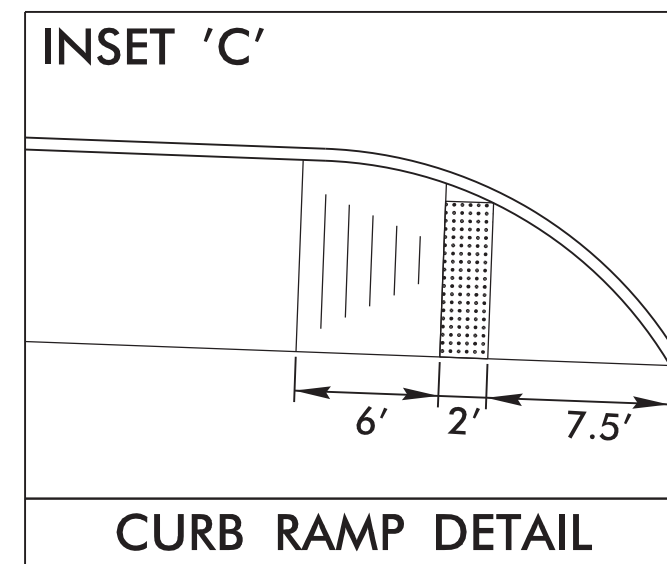
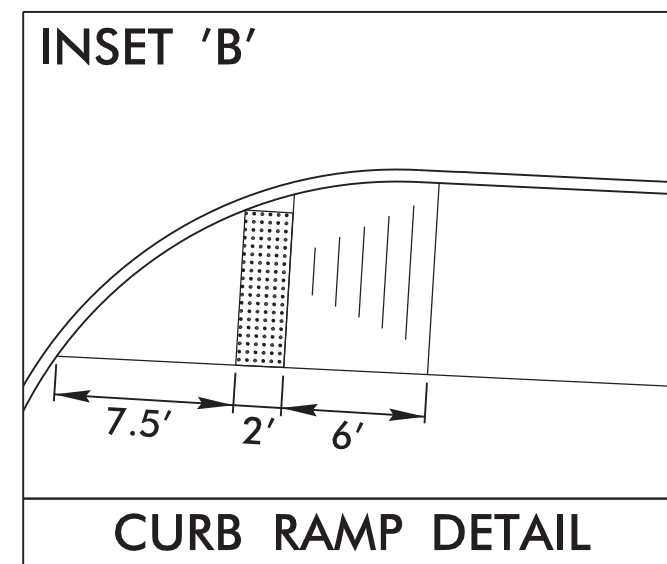
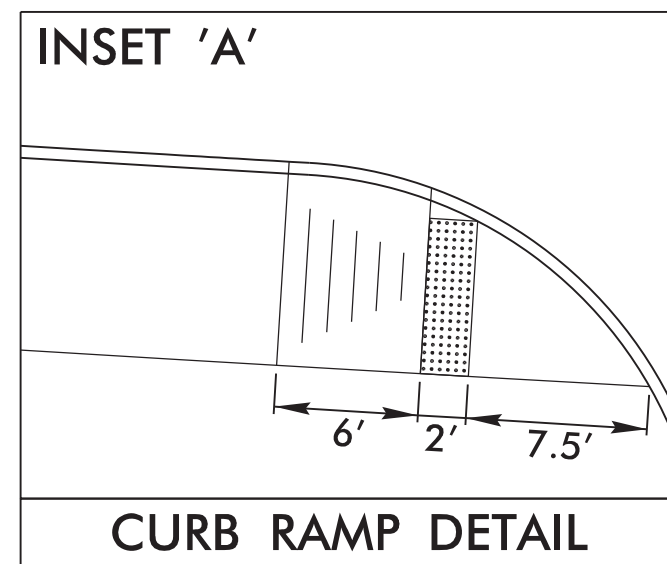
PROJECT NO.:

301-16-14

SCALE: 1"=40'

-L-

PI Sta 59+40.57	PI Sta 62+06.14
$\Delta = 14^{\circ} 49' 17.4" (RT)$	$\Delta = 1^{\circ} 42' 28.0" (LT)$
$D = 4^{\circ} 24' 26.5"$	$D = 0^{\circ} 52' 05.2"$
$L = 336.29'$	$L = 196.72'$
$T = 169.09'$	$T = 98.37'$
$R = 1,300.00'$	$R = 6,600.00'$
$SE = 3\%$	$SE = 2\%$
$RUNOFF = 75'$	$RUNOFF = 50'$



NOTE: INSTALL ONE 2" CONDUIT AND ONE 4" CONDUIT UNDERNEATH PROPOSED MULTIUSE PATH OR SIDEWALK

ALL RADII ARE 20' UNLESS OTHERWISE NOTED

FOR -L- PROFILE, SEE SHEET NO. 17

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TOWN OF
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704-663-7282

CONTACT:
JONATHAN YOUNG, PE

WEST WILSON AVENUE
ROAD IMPROVEMENTS
US 21 TO SOUTH BROAD STREET



ROADWAY
ENGINEER



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Andrew P. Young
10/2/2020



HYDRAULICS
ENGINEER



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Frank Fleming
10/5/2020

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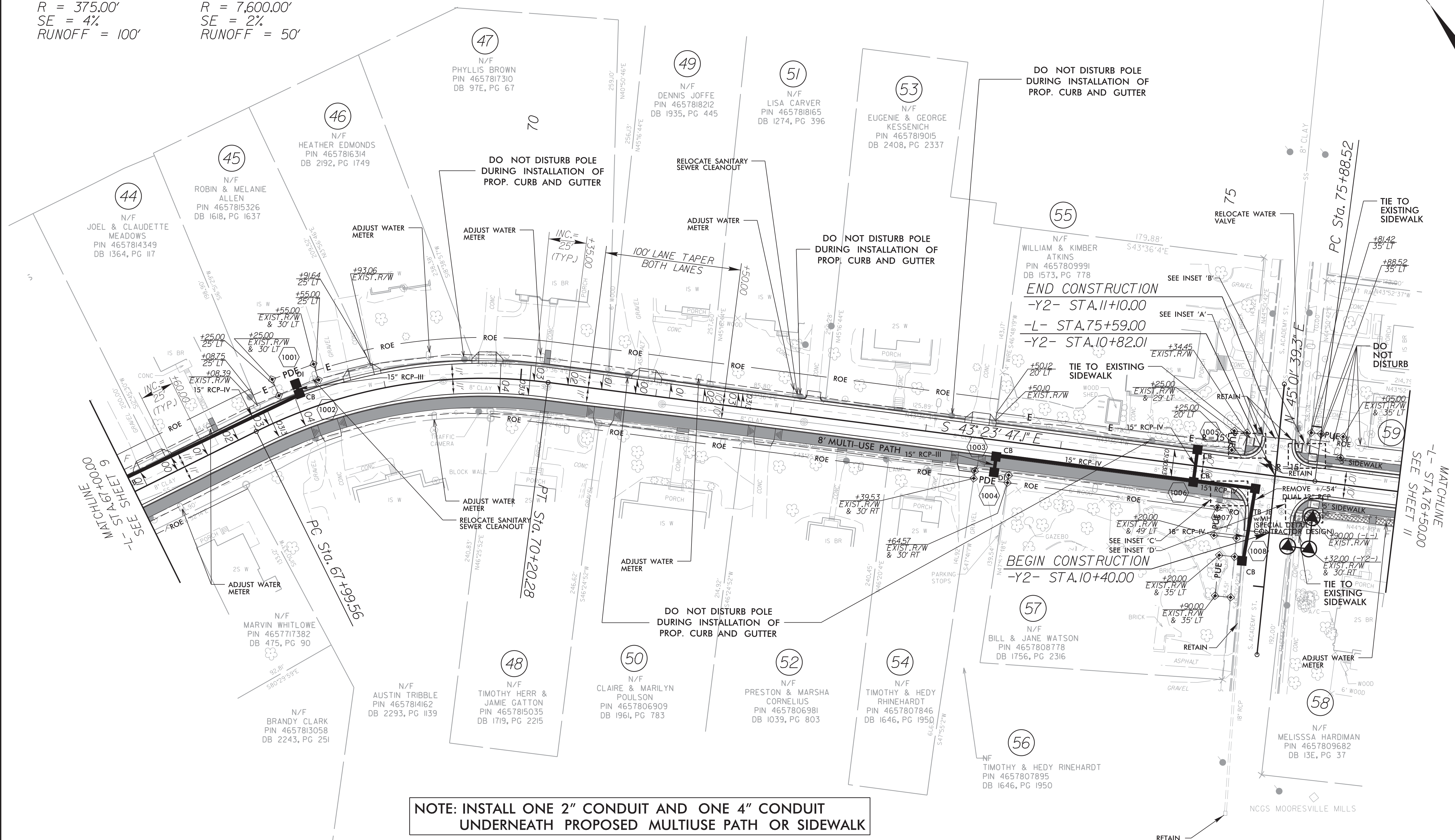
PROJECT NO.:

301-16-14

SCALE: 1"=40'

9

<i>PI Sta 69+13.22</i>	<i>PI Sta 76+27.15</i>
$\Delta = 3^{\circ} 43' 29.6''$ (RT)	$\Delta = 0^{\circ} 34' 56.9''$ (LT)
$D = 15^{\circ} 16' 43.9''$	$D = 0^{\circ} 45' 14.0''$
$L = 220.73'$	$L = 77.26'$
$T = 113.67'$	$T = 38.63'$
$R = 375.00'$	$R = 7,600.00'$
$SE = 4\%$	$SE = 2\%$
$RUNOFF = 100'$	$RUNOFF = 50'$

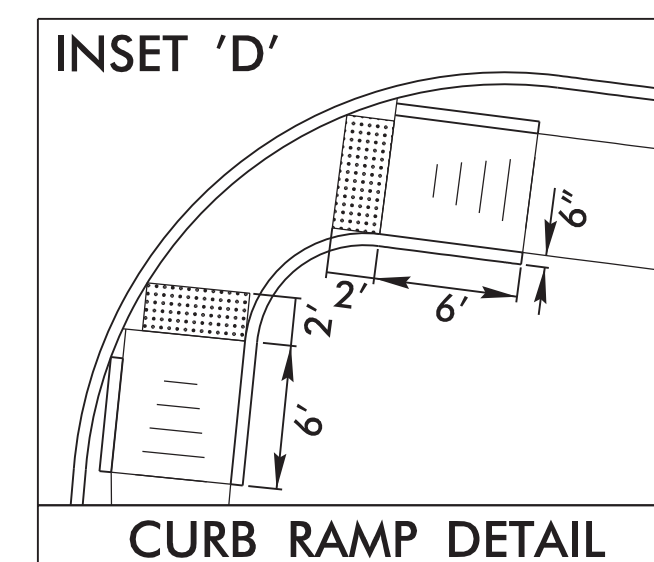
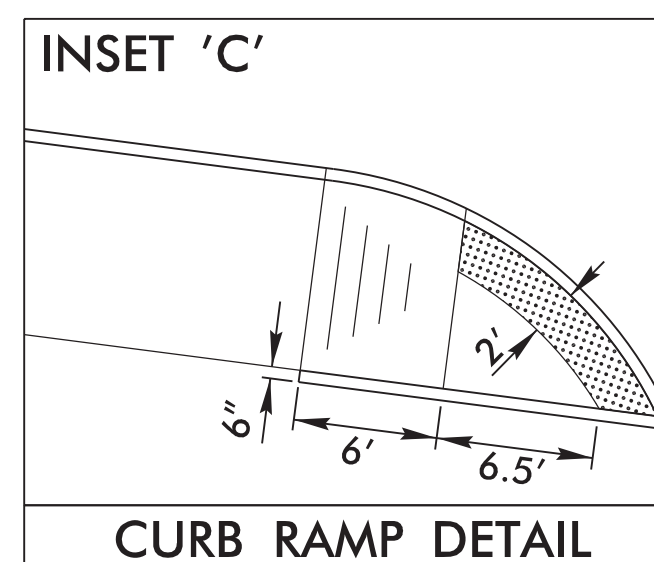
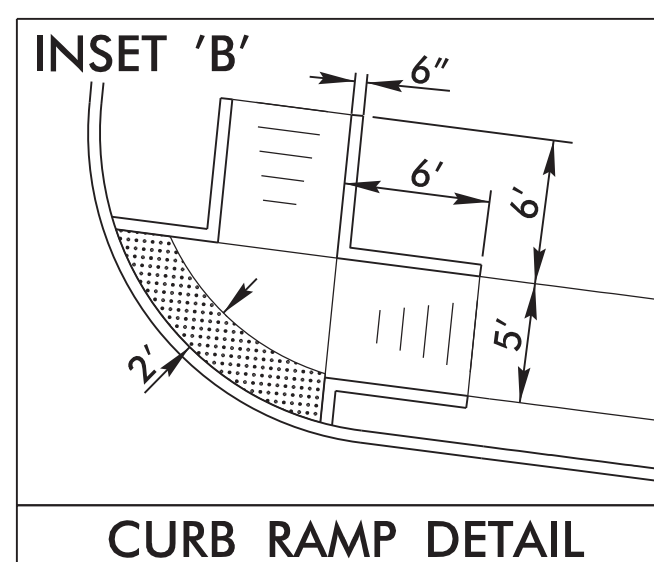
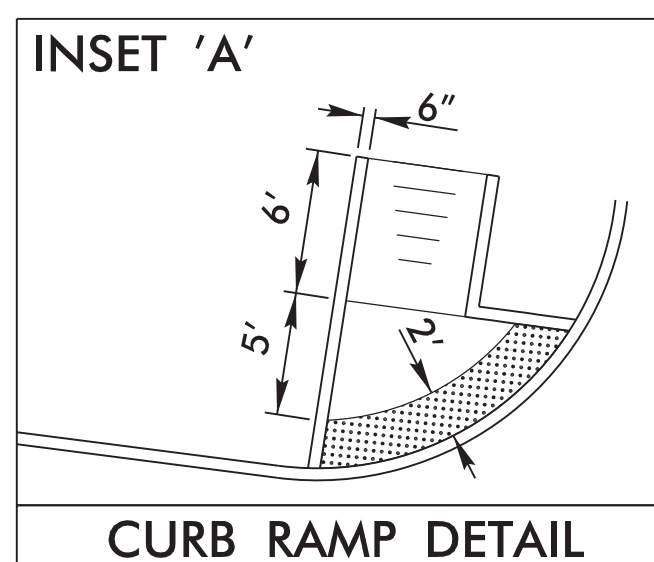


NOTE: INSTALL ONE 2" CONDUIT AND ONE 4" CONDUIT
UNDERNEATH PROPOSED MULTIUSE PATH OR SIDEWALK



ALL RADII ARE 20' UNLESS OTHERWISE NOTED

FOR -L- PROFILE, SEE SHEET NO. 18



NOTE: RW REVISION (PUE) ON PARCELS 55, 57, & 59
DUE TO ADDITION OF SIGNALS AND UTIL. RELOCATION

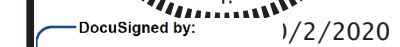
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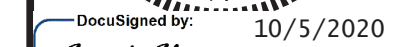
WEST WILSON AVENUE
ROAD IMPROVEMENTS
US 21 TO SOUTH BROAD STREET

ROADWAY
ENGINEER

Andrew P. Young



HYDRAULICS
ENGINEER



Frank Fleming

ABD4787727EC464...
DATE: OCTOBER 2020

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REVISIONS:

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PROJECT NO.

PROJECT NO.: _____

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301-16-14

SCALE: 1"=40'

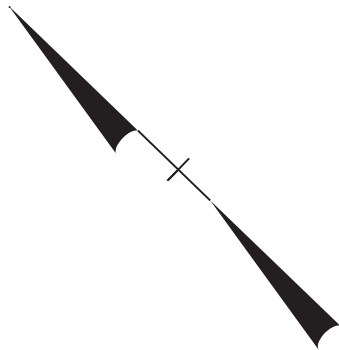
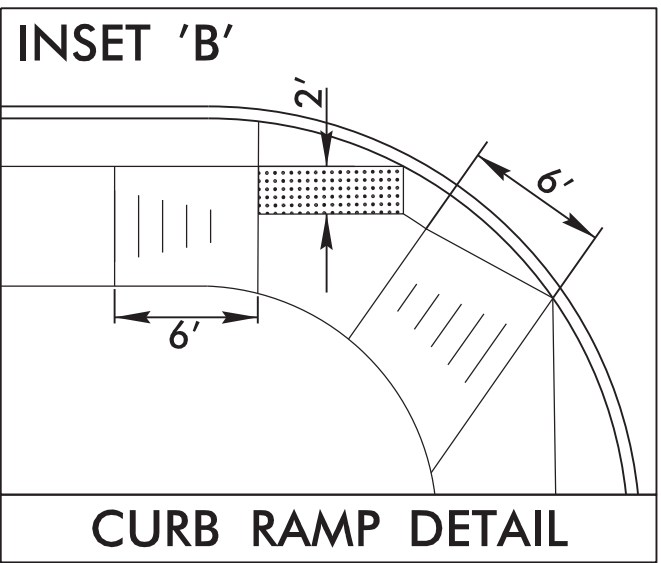
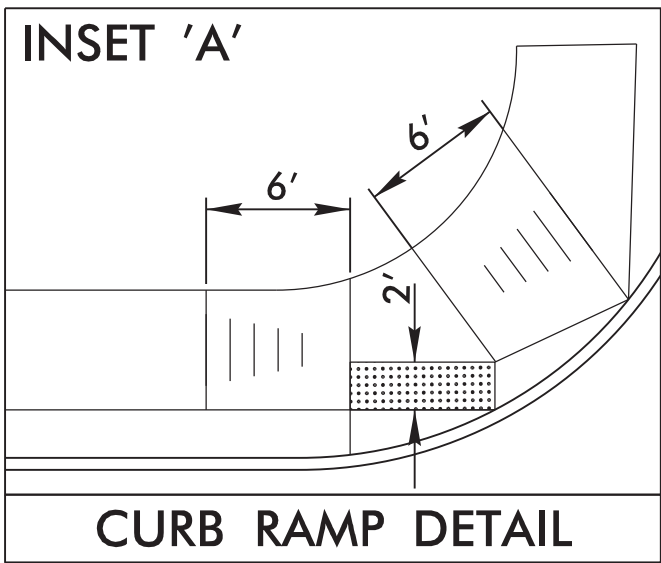
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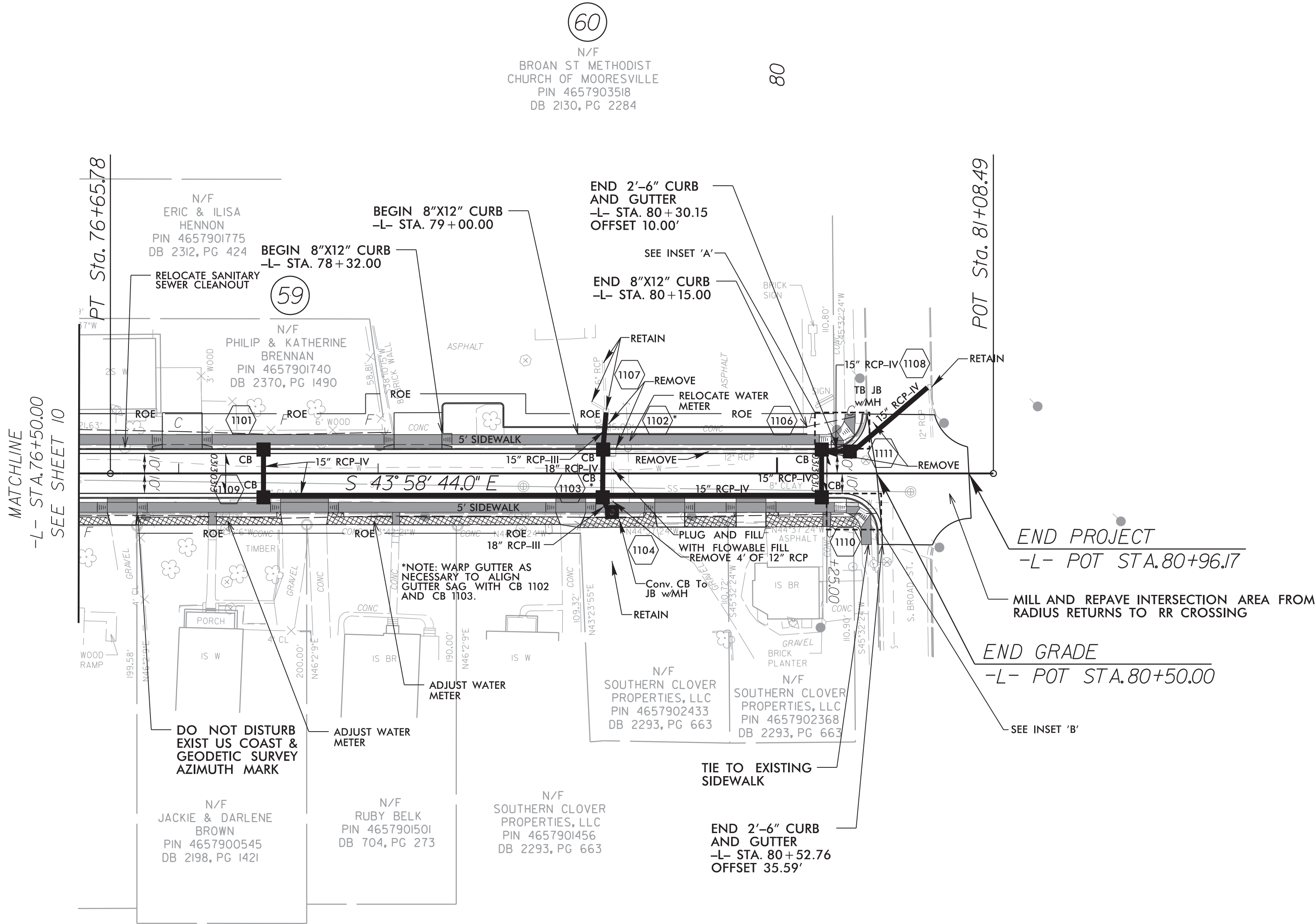


TOWN OF
MOORESVILLE

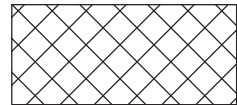
2523 CHARLOTTE HWY.
MOORESVILLE, NC 28117
704-663-7282

CONTACT:
JONATHAN YOUNG, PE

WEST WILSON AVENUE
ROAD IMPROVEMENTS
US 21 TO SOUTH BROAD STREET



NOTE: INSTALL ONE 2" CONDUIT AND ONE 4" CONDUIT
UNDERNEATH PROPOSED MULTIUSE PATH OR SIDEWALK



EXISTING SIDEWALK REMOVAL

ALL RADII ARE 20' UNLESS OTHERWISE NOTED

FOR -L- PROFILE, SEE SHEET NO. 19

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STEWART

ROADWAY
ENGINEER



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10/2/2020



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10/5/2020

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301-16-14

SCALE: 1"=40'

11