CONSTRUCTION DRAWINGS FOR

HARRIS CREEK FARMS

TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

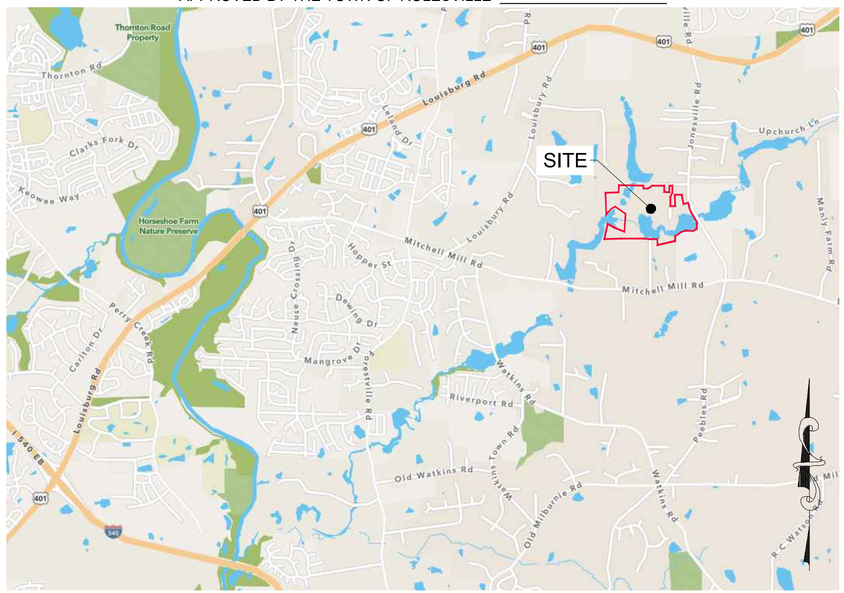
CASE NUMBER: CID 25-0004 (FKA - CID-25-03)

APPROVED BY THE TOWN OF ROLESVILLE _____

SITE DATA TABLE	
OWNER	KENNETH INVESTMENTS, LLC Contact: STEPHAN GEORGE 10030 GREEN LEVEL CHURCH RD, STE 802 CARY, NC 27519
ENGINEER:	QUANTECH ENGINEERING BRYAN A. HARRIS, PE 15000 WESTON PARKWAY, STE. 174 CARY, NC 27513 PHONE: (919) 815-9987 EMAIL: BRYAN@QUANTECHENG.COM
DEVELOPER:	THE CSC GROUP, LLC STEVE GEORGE 600 PARK OFFICES DRIVE, STE 372 RESEARCH TRIANGLE, NC 27709 PHONE: (919) 815-9987
ENVIRONMENTAL CONSULTANT	MORRIS & RITCHIE ASSOCIATES 530 HINTON POND ROAD, SUITE 104 KNIGHTDALE, NC 27545
LANDSCAPE ARCHITECT	THE STRONG ROCK COMPANIES 305 CHRCH AT N HILLS ST STE: 1110 RALEIGH, NC 27609
SURVEYOR:	BATEMAN CIVIL SURVEY COMPANY JOSH DAVIDSON 2524 RELIANCE AVE APEX, NC 27539 PHONE: 919 557-1080 Ext 109 josh@batemancivilsurvey.com
SITE ADDRESS	4928 UNIVERSAL DR WAKE FOREST, NC 27587-6356
PIN:	1757471559 , 1757277811 , 1757383572 , 1757384572 , 1757385349 , 1757385064 , 1757375975 , 1757375865 , 1757375765 , 1757375665 , 1757375575 , 1757375464 , 1757375365 , 1757375276 , 1757377990 , 1757378303 , 1757378109 , 1757378013 , 1757368816
REID:	0345866 , 0057413 , 0057430 , 0057429 , 0057429 , 0057440 , 0057441 , 0057442 , 0057443 , 0057444 , 0057445 , 0057446 , 0057447 , 0057448 , 0057431 , 0057435 , 0057436 , 0057437 , 0057438
DEED BOOK / PAGE	019248 / 01884 (all parcels)
PLAT BOOK / PAGE	BM2007 / 01224
TOTAL SITE AREA:	94.99 AC
EXISTING ZONING:	RM-CZ
CURRENT USE:	RESIDENTIAL
PROPOSED USE	RESIDENTIAL-CLUSTER (MEDIUM DENSITY)
RIVER BASIN	NEUSE RIVER BASIN
SUB WATERSHED	NEUSE (UPPER) - 03020201
FEMA FIRM PANEL #:	3720175700K
RESIDENTIAL DENSITY CALCULATIONS (CLUSTER SUBDIVISION)	
MAXIMUM DENSITY ALLOWED:	5.0 UNITS / AC
PROPOSED DENSITY:	120 UNITS / 94.99 AC = 1.26 UNITS / AC
LOTS (CLUSTER)	
MINIMUM LOT WIDTH	42.0 FT
MINIMUM LOT AREA	6,000 SF
MINIMUM BUILDING SETBACKS:	FRONT: 20' REAR: 20' CORNER: 10' SIDE: 5'
OPENSPACE (MEDIUM DENSITY, CLUSTER)	
OPEN SPACE (REQUIRED 12%)	11.40 AC
OPEN SPACE (PROPOSED)	63.60 AC
PASSIVE (REQUIRED)	5.70 AC
PASSIVE (PROPOSED)	56.04 AC
PASSIVE (NOT IN SCM OR ENVIRONMENTAL AREAS)	7.11 AC
ACTIVE (REQUIRED)	5.70 AC
ACTIVE (PROPOSED)	7.56 AC
ACTIVE SPACES (REQUIRED)	2 MEDIUM AREA (1.0 - 2.5 AC) 1 LARGE AREA (> 2.5 AC.)
ACTIVE SPACES (PROVIDED)	(2) MEDIUM AREAS Area 1 = (44,640 SF, 1.02 AC) Area 2 = (78,467 SF, 1.80 AC) (1) LARGE AREA Area 3 = (206,621 SF, 4.74 AC)
TREE SAVE SUMMARY (CLUSTER)	
EXISTING QUALIFIED TREES:	514 Total
REQUIRED TREES SAVE:	52 (10% of Total)
PROPOSED TREES SAVE:	267 (52% of Total)
STREET DATA	
CORNELL GARDEN ST	1,125 LF 50' R/W 35' BC - BC
GIDEON DR	1,245 LF VARIABLE R/W 35' BC - BC
FAMILY FAITH CIR	2,360 LF 50' R/W 35' BC - BC
PARENTS WAY	705 LF 50' R/W 27' BC - BC
SIBLINGS DR	370 LF 50' R/W 27' BC - BC
DEDICATED ROAD R.O.W.	7.64 ACRES

IMPERVIOUS AREA	
EXISTING GRAVEL ROADS	69,021 SF (1.58 AC)
PROPOSED ROADS	186,157 SF (4.27 AC)
PROPOSED PARKING LOTS	11,176 SF (0.26 AC)
PROPOSED SIDEWALKS	56,138 SF (1.29 AC)
PROPOSED GREENWAYS	65,664 SF (1.51 AC)
ALLOWABLE / LOTS	20% = 827,553 SF (19.00 AC) -319,890 SF (7.34 AC) = 507,663 SF (11.65 AC) 507,663 SF / 120 Lots = 4,230 SF / Lot

PARKING CALCULATIONS			
PRINCIPAL USES	MINIMUM REQ'D	MAX ALLOWED	PROPOSED SPACES
PARKS/PUBLIC RECREATION FACILITIES	3 PER GROSS ACRE PLUS 1 PER 1000 SF OF GROSS FLOOR AREA OF BUILDINGS 5.09 Ac * 3 = 15.26 0 SF of FLOOR = 0 SPACES ADA CALC'S 26-50 PARKING SPACES REQUIRE ONE VAN ACCESSIBLE AND ONE STANDARD	NO MAXIMUM	28 SPACES (INCLUDES 4 VAN ACCESIBLE ADA SPACES)



VICINITY MAP

0 2,500 5,000 10,000

1 inch = 2,500 ft

RALEIGH INFRASTRUCTURE INSPECTIONS QUANTITIES		
PHASES	HARRIS CREEK FARMS	WATERLINE MAIN EXTENSION
NUMBER OF LOTS	120	0
NUMBER OF UNITS	0	0
PUBLIC WATER LINE (LF)	6,128	11,286
PUBLIC SEWER LINE (LF)	5,841	0
PUBLIC FORCEMAIN (LF)	0	0
WATER SERVICE STUBS	120	0
SEWER SERVICE STUBS	120	0
AVERAGE DAILY FLOW	36,000	0

STREET INFORMATION				
STREET NAME	PUBLIC OR PRIVATE	R/W WIDTH	STREET WIDTH	STREET LENGTH IN LINEAR FEET
CORNELL GARDEN DR (EAST)	PUBLIC	60'-0"	35' B-B	697'
CORNELL GARDEN DR (WEST)	PUBLIC	50'-0"	29' B-B	483'
GIDEON DR (NORTH)	PUBLIC	VARIABLE (50' MIN)	29' B-B	251'
GIDEON DR (SOUTH)	PUBLIC	VARIABLE (50' MIN)	35' B-B	1,019'
FAMILY FAITH CIR	PUBLIC	50'-0"	29' B-B	2,421'
PARENTS WAY	PUBLIC	50'-0"	29' B-B	777'
SIBLINGS DR	PUBLIC	50'-0"	29' B-B	413'

ATTENTION CONTRACTORS

The Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Inspector at 919-996-3245 or https://cityworks.raleighnc.gov/pucontractors/new and schedule a Pre-construction meeting prior to beginning any construction. Raleigh Water must be contacted at (919) 996-4540 at least twenty-four hours prior to beginning any work activity around critical water and sewer infrastructure.

Failure to notify the Divisions in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for Inspection, install a downstream plug, have permitted plans on the jobsite, or any other violation of City of Raleigh Standards will result in a fine and possible exclusion from future work in the City of Raleigh.

PROJECT REZONING WAS SUBMITTED AUGUST 2022. THE PROPERTY'S RM-CZ ZONING DISTRICT IS THEREFORE SUBJECT TO LDO SECTION 3.1.B/3.1.2.B/TABLE 3.1.2. CLUSTER DEVELOPMENT STANDARDS FOR MINIMUM LOT AREA (SIZE), WIDTH, AND BUILDING SETBACKS IN EFFECT AS OF AUGUST 2022. SPECIFICALLY, THIS IS PRIOR TO THE APRIL 4. 2023 ADOPTION OF TEXT AMENDMENT TA-23-02 WHICH MODIFIED THESE CLUSTER DEVELOPMENT STANDARDS.

RALEIGH WATER - PLANS AUTHORIZED FOR CONSTRUCTION
Any work authorized by this approval must proceed in accordance with the plans. This electronic approval may not be edited once issued. Any modification to this approval once issued will necessitate re-approval.
Timothy Beasley
2026.09.17 09:43:44-04'00'

Rolesville
Genuine Community • Capital Connection • Est. 1837
Planning

CID-25-03 / CID-25-0004 (Govwell) / Construction Infrastructure Drawings / Harris Creek Farm

APPROVED – August 18, 2026

Town of Rolesville Planning Department

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PREVIOUS ENTITLEMENTS	
CASE	APPROVAL DATE
ANX 22-05	04-16-2024
MA 22-08	04-16-2024
PSP-24-05	2025-05-17

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT

APPROVED

EROSION CONTROL ☐ SEC-148353-2025

STORMWATER MGMT.☐SWF-148354-2025

FLOOD STUDY ☐ SWF-_____

DATE 08/31/2026

WAKE COUNTY SOIL & WATER CONSERVATION DISTRICT

Elizabeth Powell

ENVIRONMENTAL CONSULTANT SIGNATURE

AGENCY CONTACTS
Town of Rolesville Planning Department 502 Southtown Circle Rolesville, NC 27511
Wake County Watershed Management Waverly F. Atkins Building 337 S. Salisbury St Raleigh, NC 27601 Contact: Karen Pageeau Phone: (919) 796-8769 Email: karyn.pageau@wakegov.com
City of Raleigh Public Utilities Dept. One Exchange Plaza Suite 620 Raleigh, NC 27602 Phone: (919) 996-3245 Email: publicutilityinfo@raleighnc.gov
NCDOT Division 5, District 1 Office 4009 District Drive Raleigh, NC 27607

N.C. UNDERGROUND UTILITIES

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Surveyor

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Jurisdiction / Municipality

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Town of Rolesville
502 Southtown Cir
Rolesville, NC 27671
Phone: 919-554-6517

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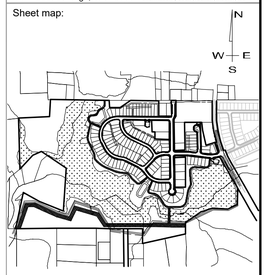
Landscape Architect

STRONGROCK
THE STRONGROCK COMPANIES

305 Church at North Hills Street
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information@strongrockengineering.com

Sheet map:



Seal:

NORTH CAROLINA PROFESSIONAL SEAL 53676 ENGINEER BRYAN A. HARRIS

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DN: CN=US, E=bryan@QuantechEng.com, O=Quantech Engineering LLP, CN=Bryan Harris
Date: 2026.11.04 11:57:52-05'00'

Bryan Harris

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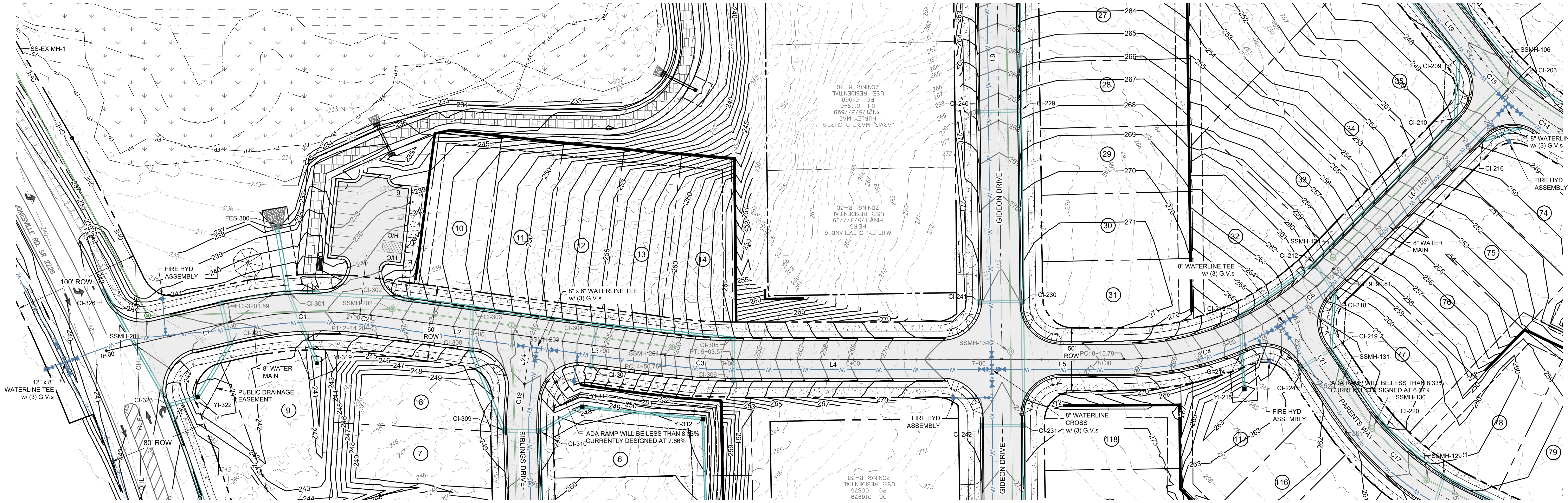
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Sheet #:

1

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CORNELL GARDEN STREET PLAN VIEW

STA: 0+00 - 7+00: 60' R.O.W. STA: 7+00 - 12+00: 50' R.O.W.

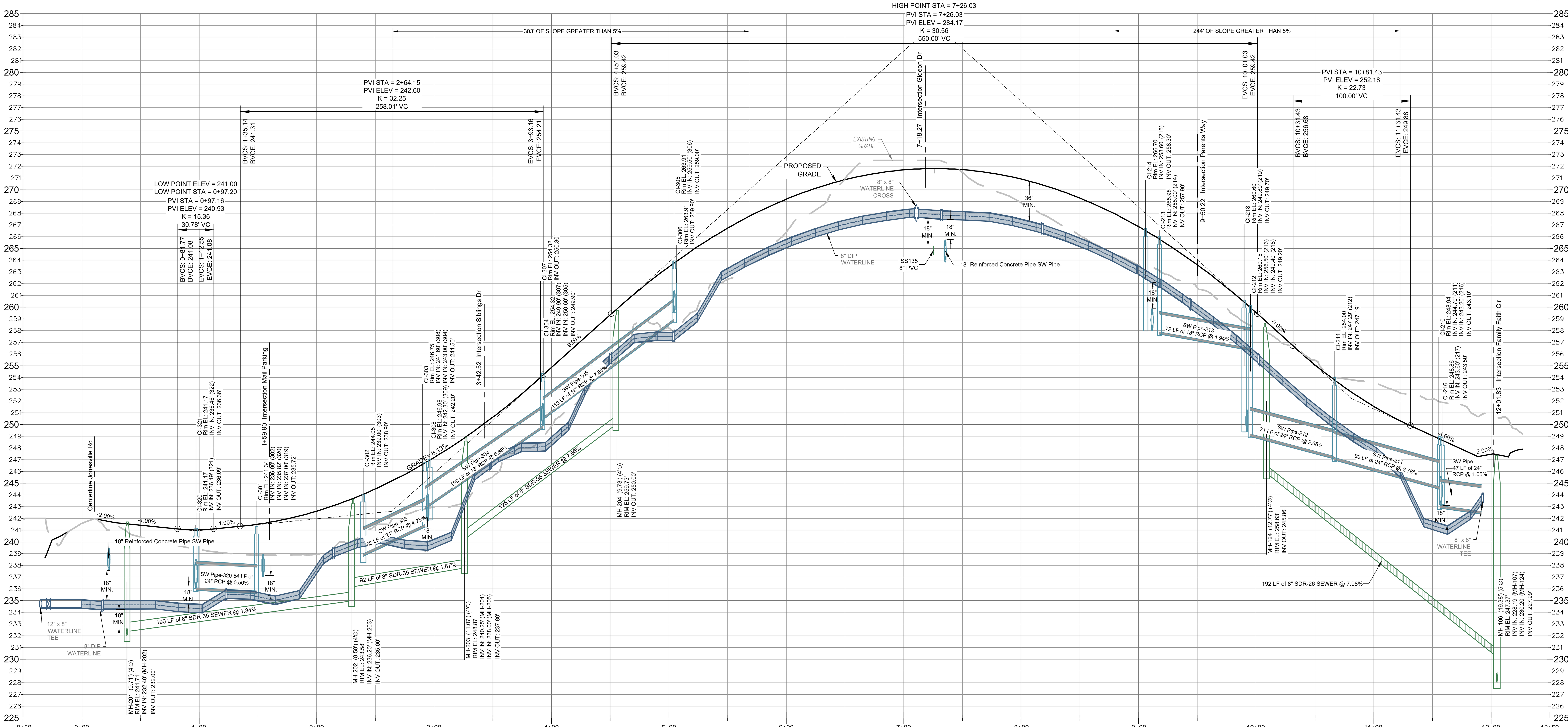
NOTES:

1. SEE SHEET 16 - Site Plan Data & Roadway Details FOR STREET CENTERLINE LINE AND CURVE DATA.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft



CORNELL GARDEN ST PROFILE VIEW

0' 50' 100'
HORZ 1" = 50'

0' 5' 10'
VERT 1" = 5'

N.C. UNDERGROUND UTILITIES
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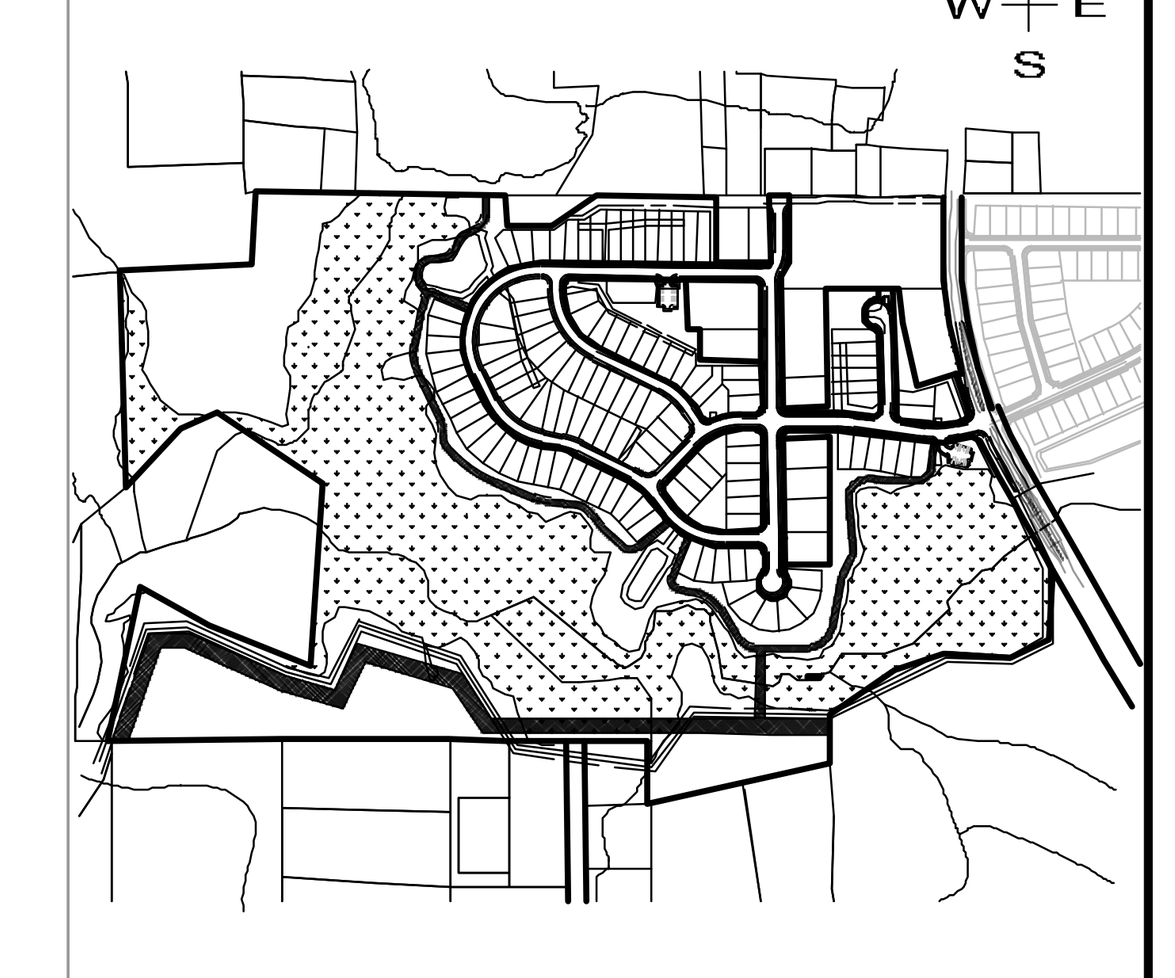
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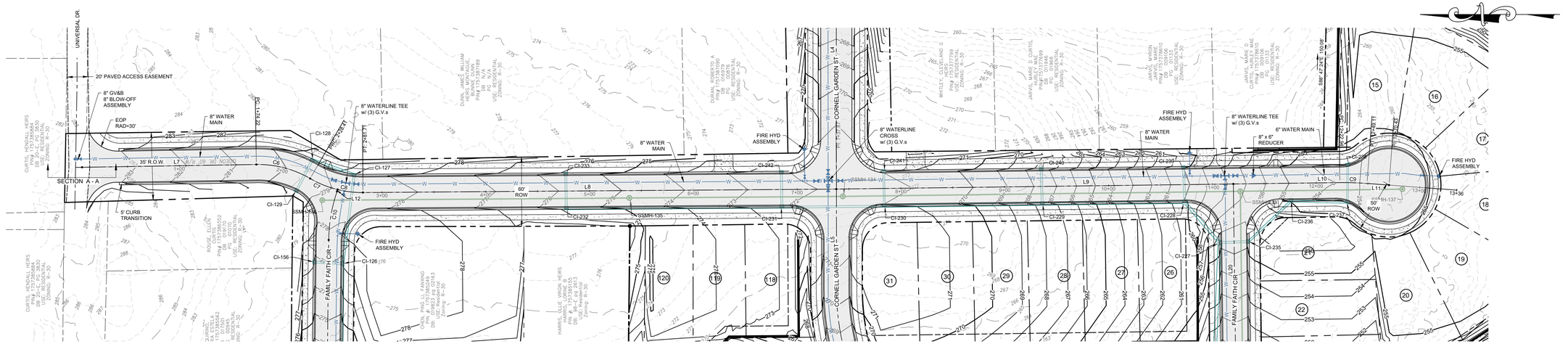
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STREET A PLAN & PROFILE

Sheet #:

87

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GIDEON DR PLAN VIEW

60' R.O.W., 50' CUL De Sac R.O.W.

NOTES:

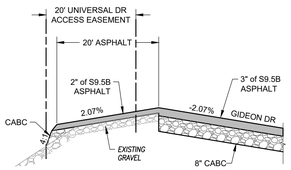
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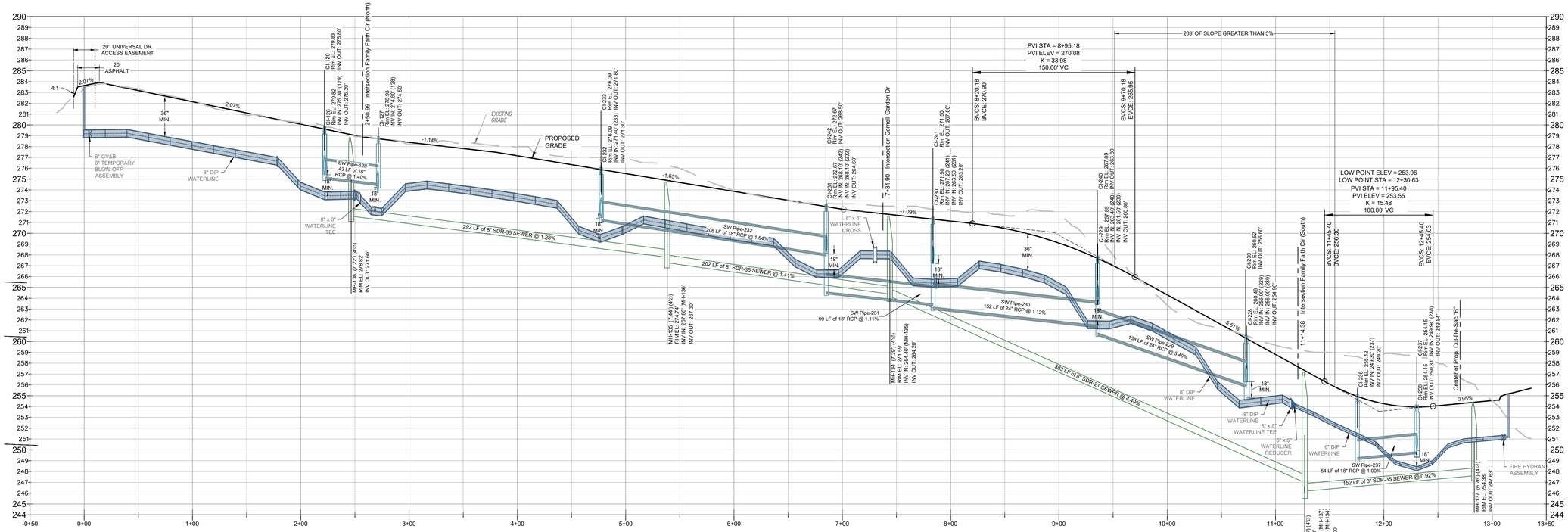
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PAVED ACCESS EASEMENT & GIDEON DRIVE (SECTION A - A)

N.T.S.



GIDEON DR PROFILE VIEW

0' 50' 100'

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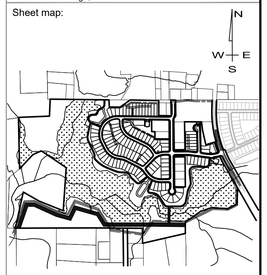
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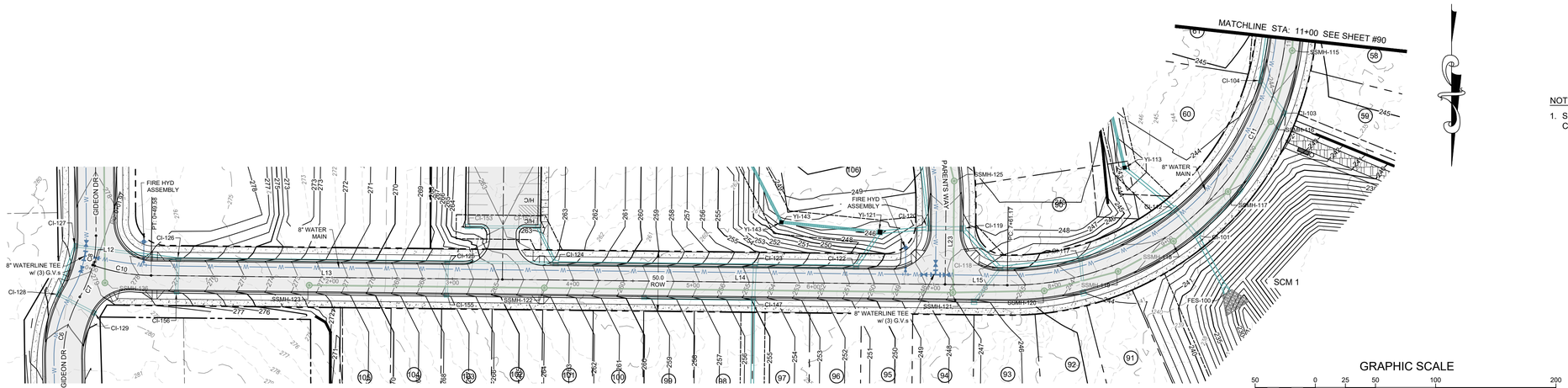
No.	Date	Description

Sheet Title:

STREET B PLAN & PROFILE

Sheet #:

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FAMILY FAITH CIR PLAN VIEW STA: 0+00 - 11+00

50' R.O.W.

GRAPHIC SCALE

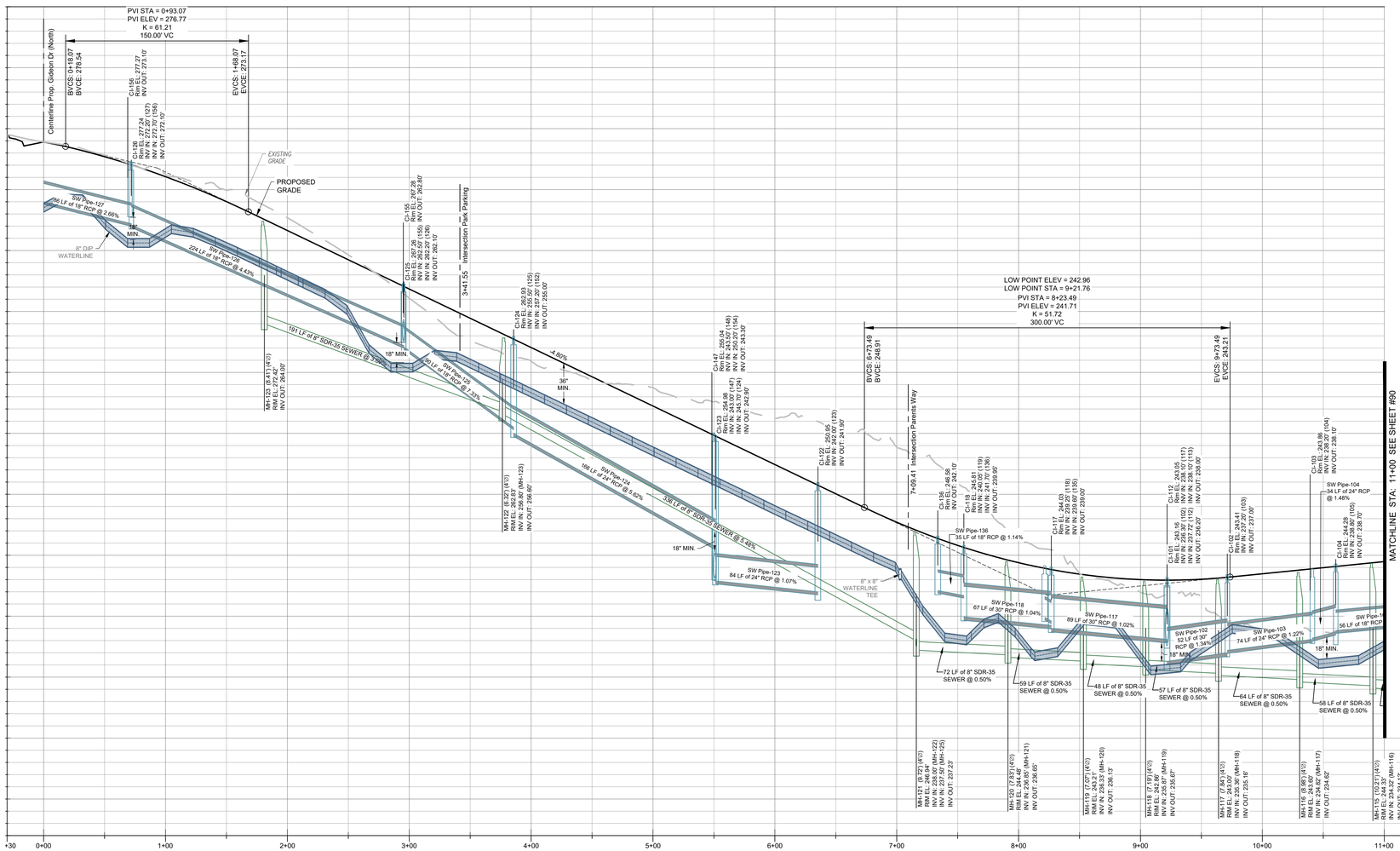
50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

NOTES:

1. SEE SHEET 16 - Site Plan Data & Roadway Details FOR STREET CENTERLINE LINE AND CURVE DATA.



FAMILY FAITH CIR PROFILE VIEW STA: 0+00 - 11+00

0' 50' 100'

HORZ 1" = 50'

0' 5' 10'

VERT 1" = 5'

N.C. UNDERGROUND UTILITIES

811 3 DAYS BEFORE DIGGING CALL TOLL FREE 811 or (800)632-4949

A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY

File Location: C:\Users\BryanHarris\Quantech\Quantech Engineering - Documents\Harris Creek Farm - Jonesville\Engineering_DWG\Construction Plans\87 Street A Plan & Profile.dwg

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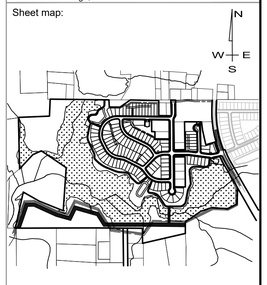
Jurisdiction / Municipality

Rolesville
Genuine Community • Capital Connection
Est. 1837
Town of Rolesville
502 Southtown Cir
Rolesville, NC 27571
Phone: 919-554-6517
CID-25-0004 (PSP-24-05)
Formally known as CID-25-03

Landscape Architect

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305 Church at North Hills Street
Suite 1110 Raleigh, NC 27609
984-200-1932
information@strongrockengineering.com

Sheet map:



Seal:

NORTH CAROLINA PROFESSIONAL SEAL 53676 ENGINEER BRYAN A HARRIS

Bryan Harris

Digitally signed by Bryan Harris
DN: CN=BH, E=BH@Quantechfirm.com, O=Quantech Engineering LLP, C=Bryan Harris
Date: 2026.11.04 11:57:55-05'00'

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Project:

HARRIS CREEK FARMS

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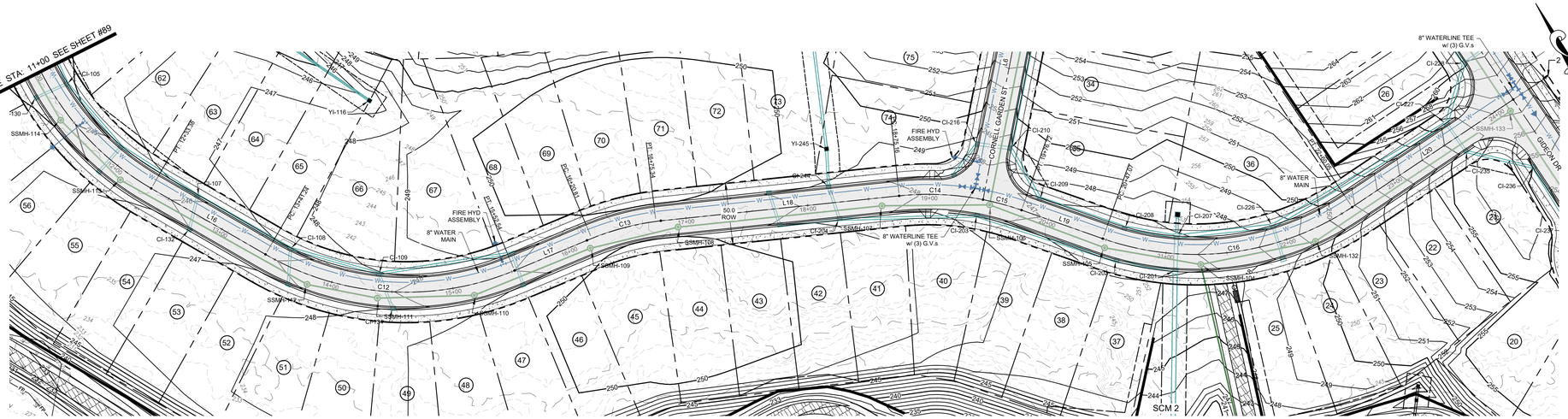
No.	Date	Description

Sheet Title:

STREET C PLAN & PROFILE 0+00 - 11+00

Sheet #:

89



NOTES:

1. SEE SHEET 16 - Site Plan Data & Roadway Details FOR STREET CENTERLINE LINE AND CURVE DATA.

FAMILY FAITH CIR PLAN VIEW STA: 11+00 - 24+50

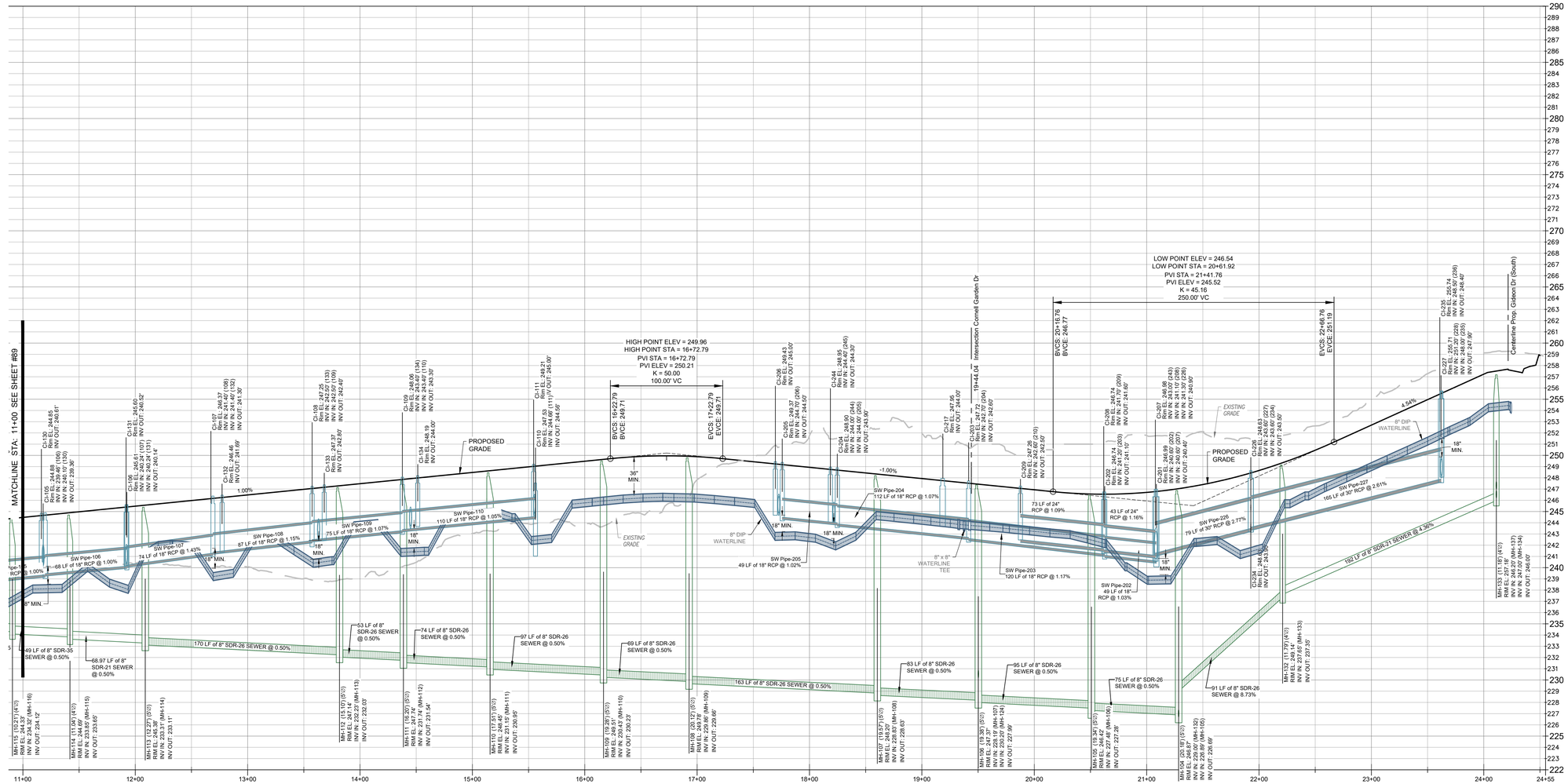
60' R.O.W.

GRAPHIC SCALE

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(IN FEET)

1 inch = 50 ft



FAMILY FAITH CIR PROFILE VIEW STA: 11+00 - 24+50

HORZ 1" = 50'

VERT 1" = 5'

N.C. UNDERGROUND UTILITIES

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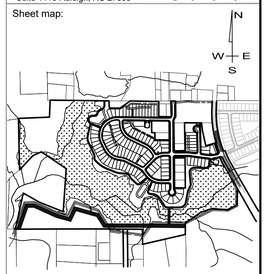
Jurisdiction / Municipality

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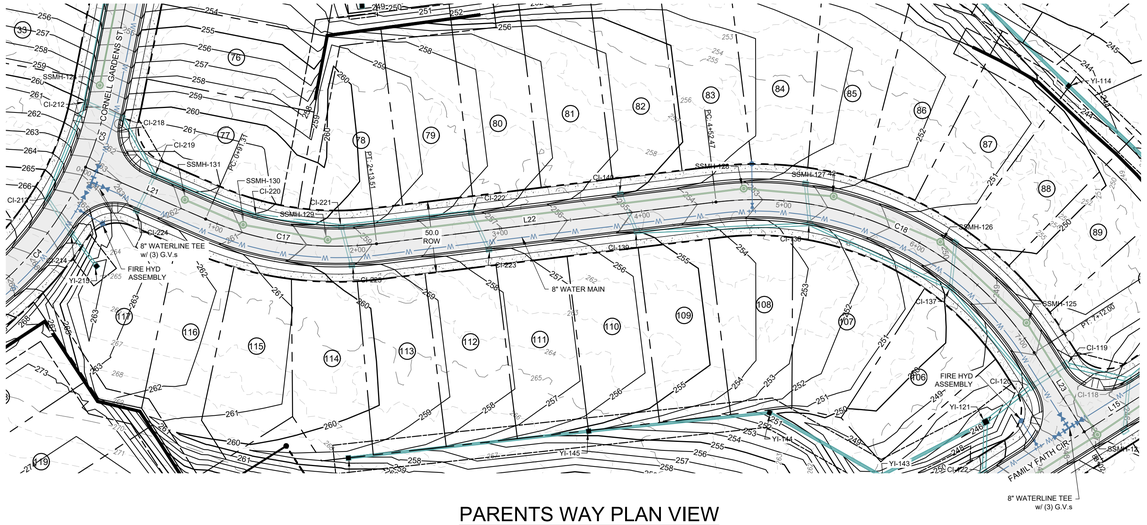
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STREET C PLAN & PROFILE 11+00 - 24+50

Sheet #:

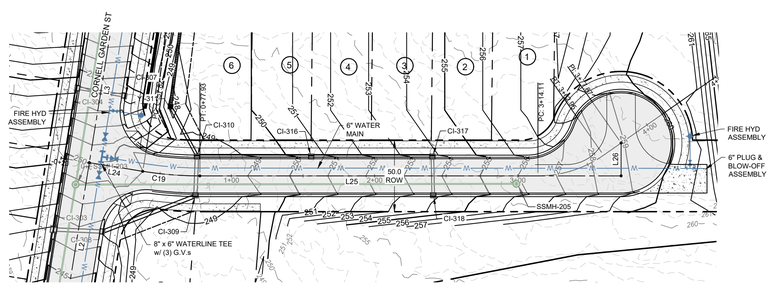
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PARENTS WAY PLAN VIEW

50' R.O.W.



SIBLINGS DR PLAN VIEW

50' R.O.W.

NOTES:

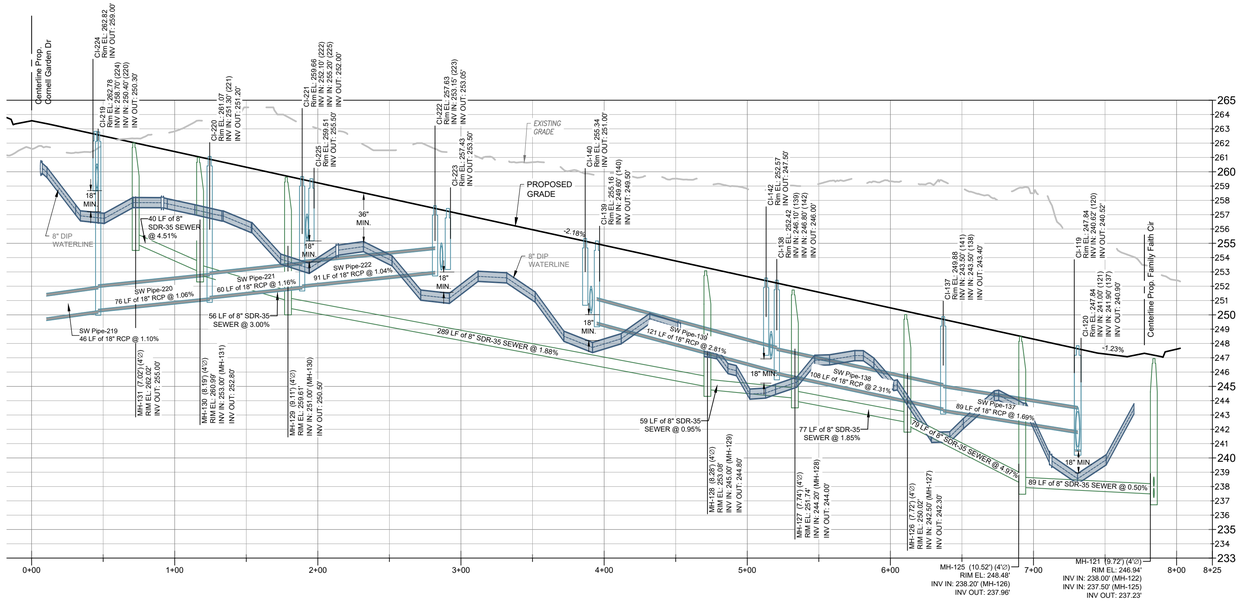
1. SEE SHEET 16 - Site Plan Data & Roadway Details FOR STREET CENTERLINE LINE AND CURVE DATA.

GRAPHIC SCALE

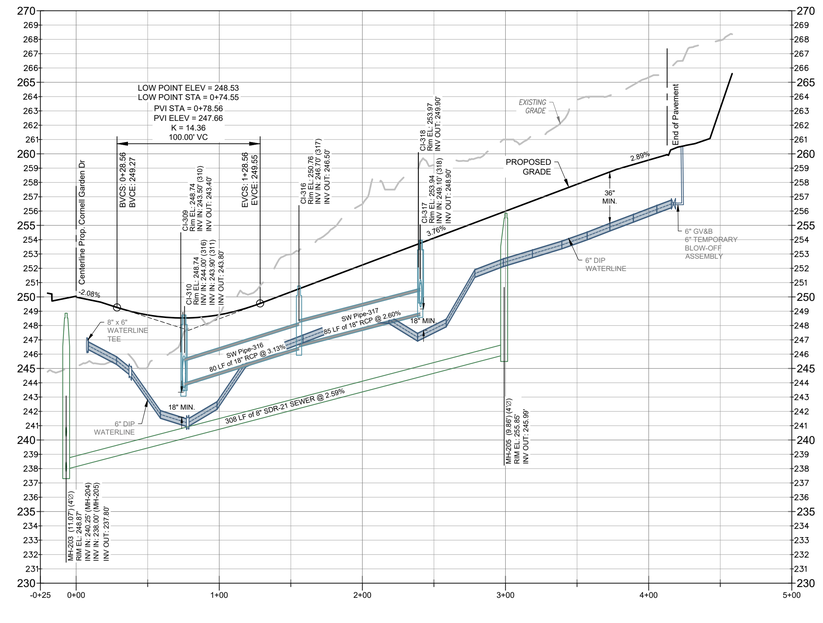
50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft



PARENTS WAY PROFILE VIEW



SIBLINGS DR PROFILE VIEW

0' 50' 100'

HORZ 1" = 50'

0' 5' 10'

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N.C. UNDERGROUND UTILITIES

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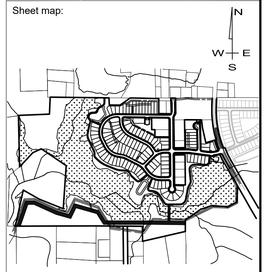
Landscape Architect

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information@strongrockengineering.com

Sheet map:



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Bryan Harris

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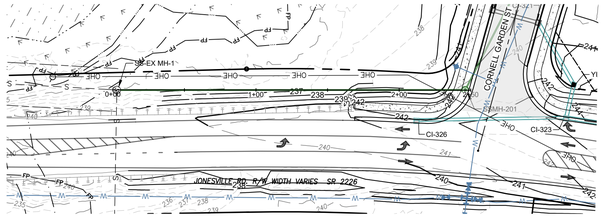
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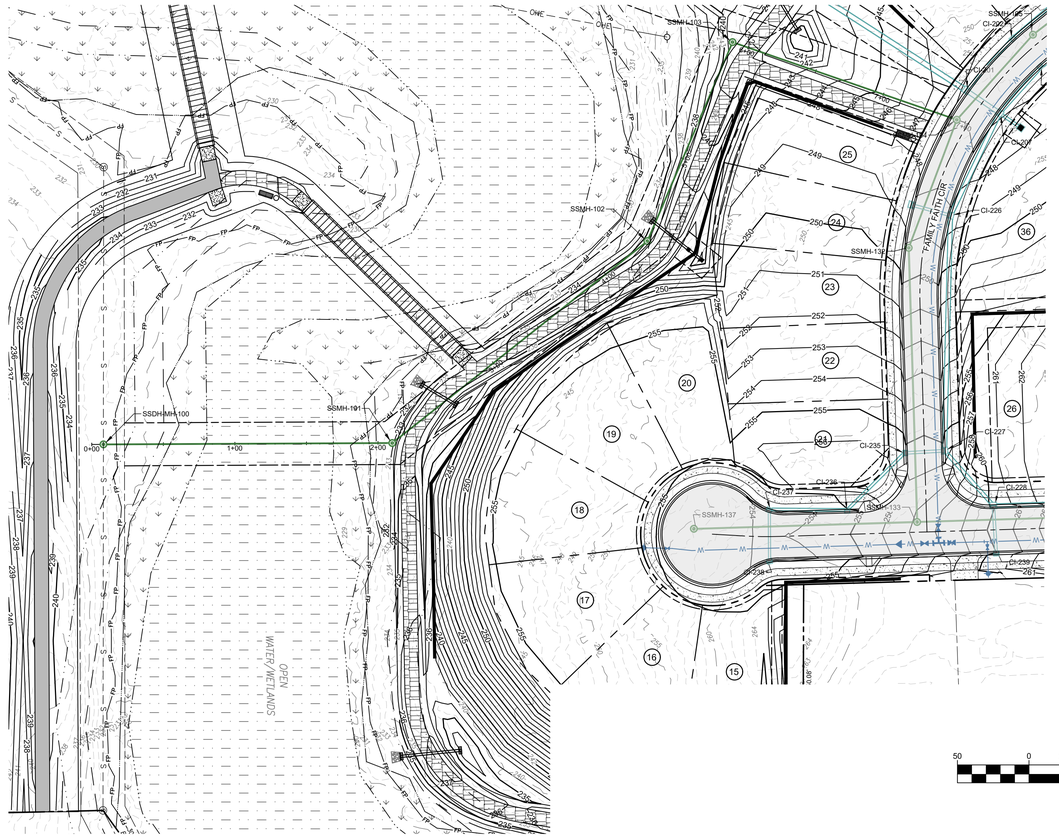
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Sewer Outfall East Plan

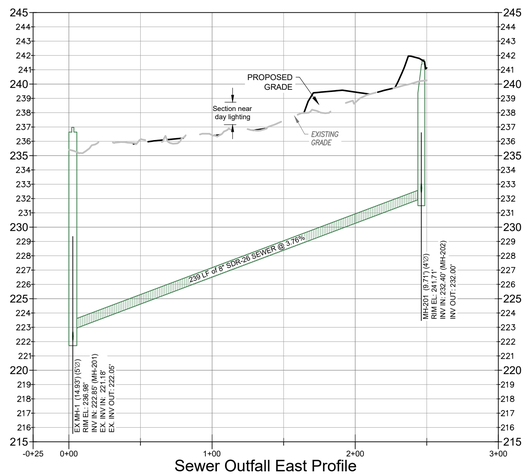


Sewer Outfall West Plan

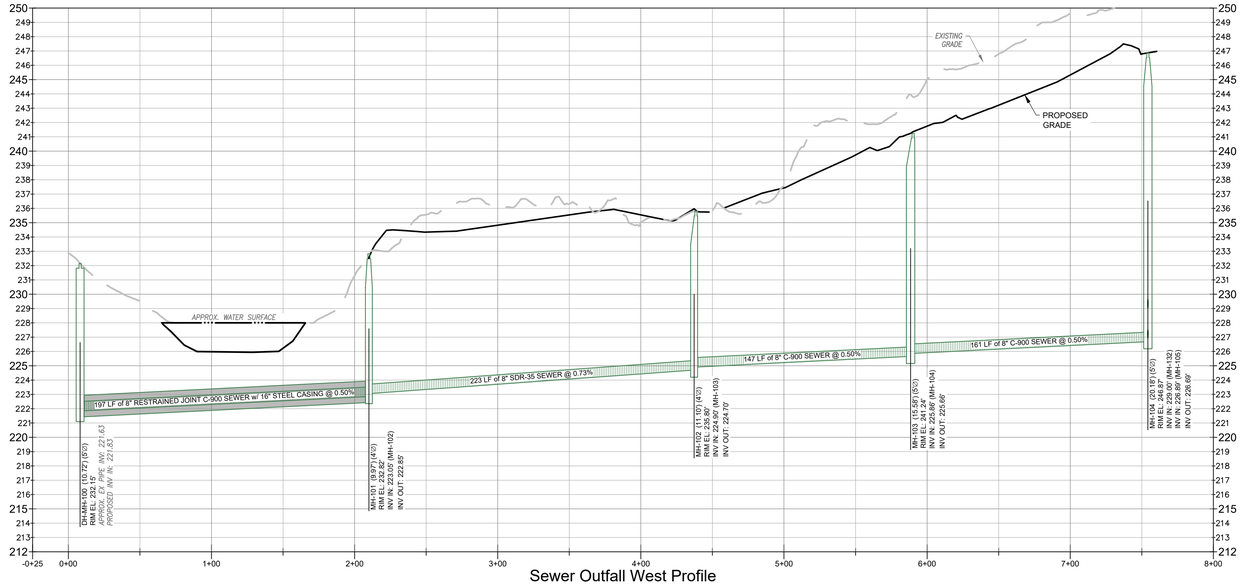
GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft



Sewer Outfall East Profile



Sewer Outfall West Profile

0' 50' 100'
HORZ 1" = 50'

0' 5' 10'
VERT 1" = 5'

N.C. UNDERGROUND UTILITIES
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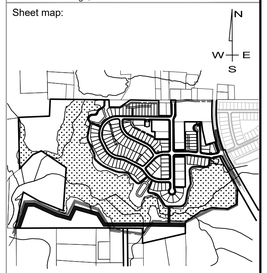
Jurisdiction / Municipality

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Landscape Architect

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information@strongrockengineering.com

Sheet map:



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DN: CN=US, E=bryan@Quantechfng.com, O=Quantech Engineering LLP, OU=Bryan Harris
Date: 2026.11.04 11:57:56-05'00'

Bryan Harris

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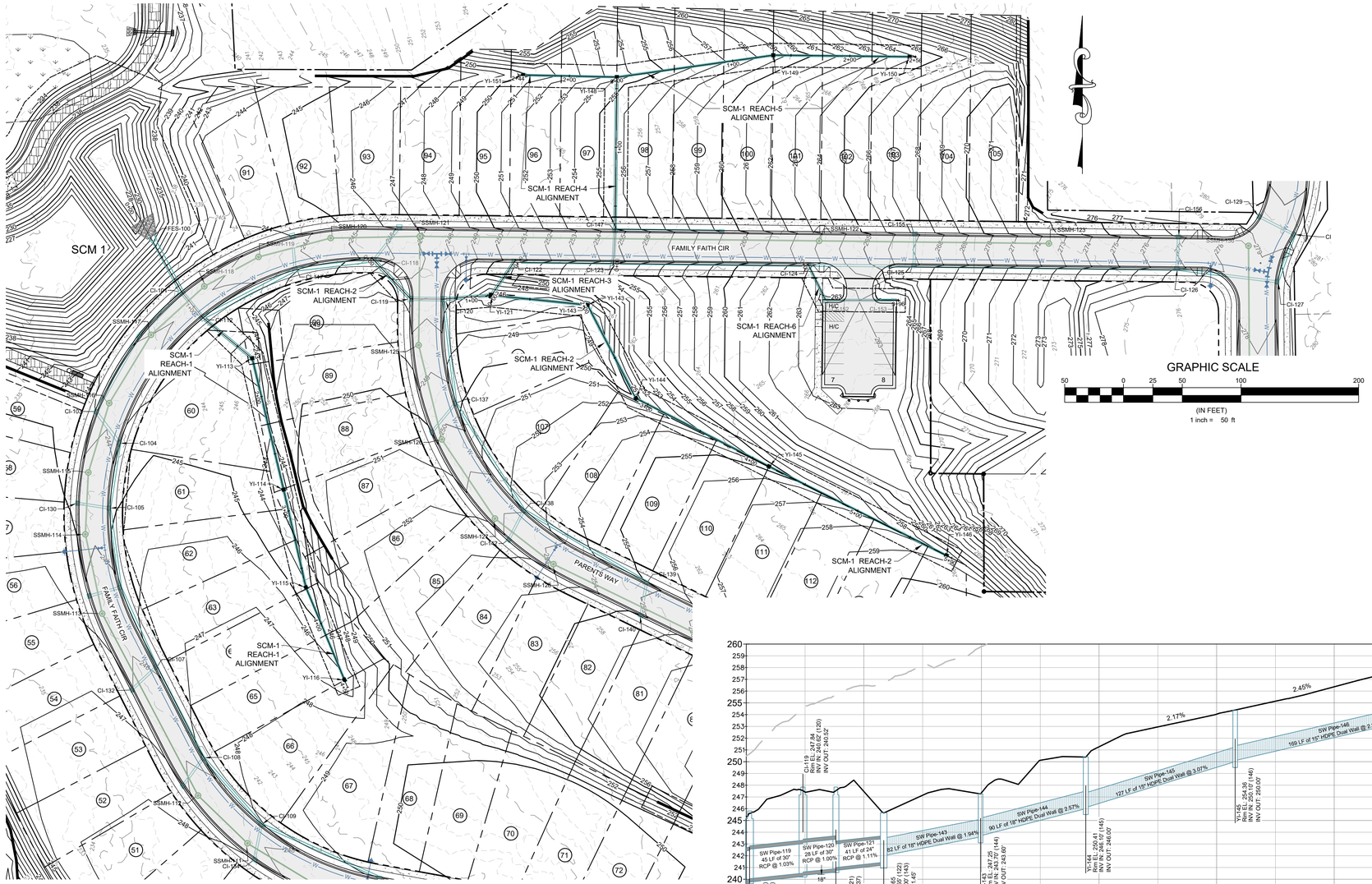
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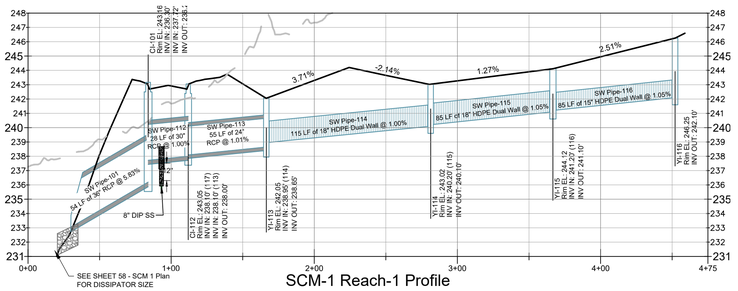
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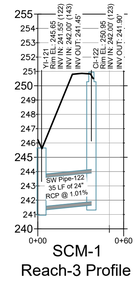
SEWER OUTFALL PLAN & PROFILES

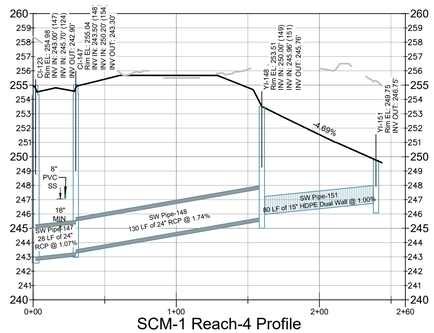
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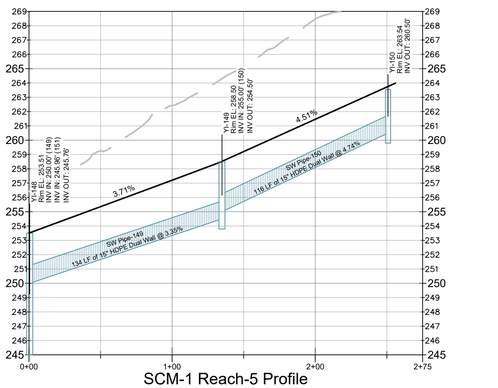
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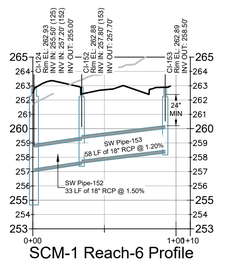












HORZ 1" = 50'

VERT 1" = 5'

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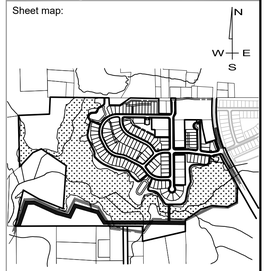
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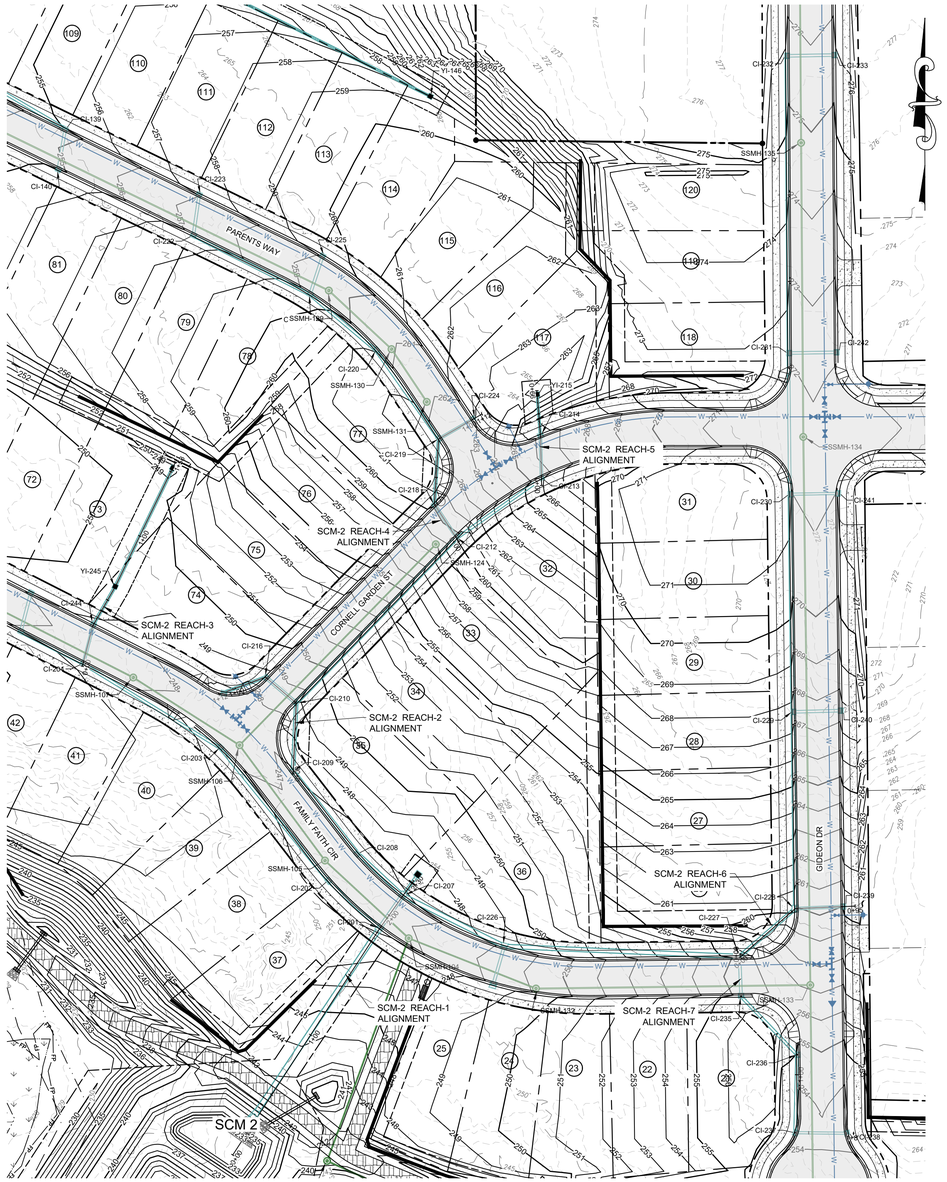
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SCM 1 STORM ALIGNMENTS & PROFILES

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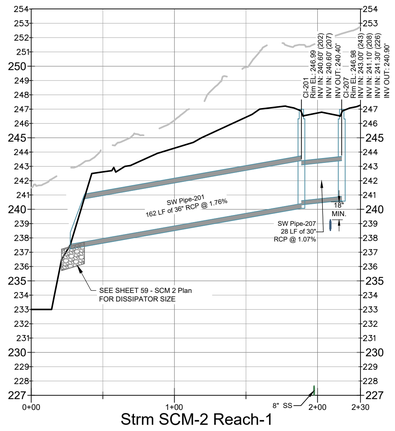


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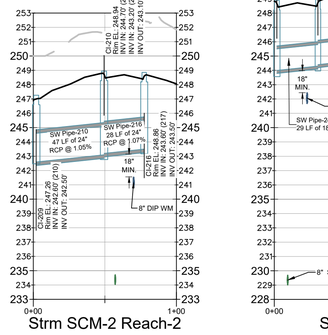
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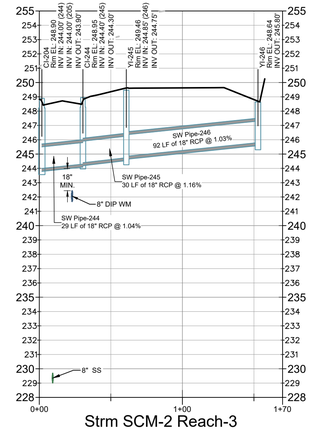
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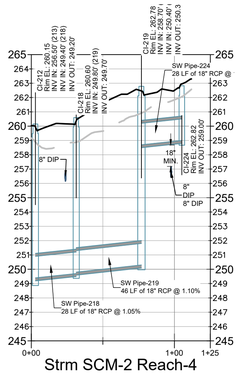
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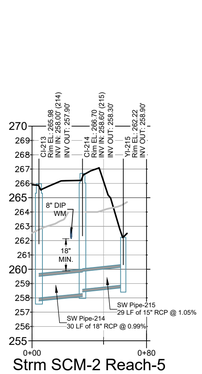
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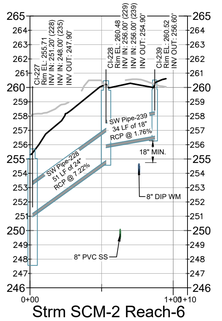
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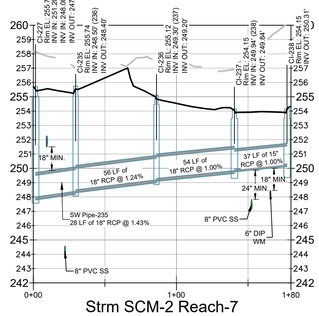
Strm SCM-2 Reach-4



Strm SCM-2 Reach-5



Strm SCM-2 Reach-6



Strm SCM-2 Reach-7

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Phone: 919-554-6517

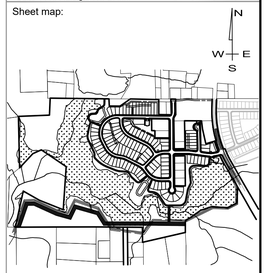
CID-25-0004 (PSP-24-05)
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Landscape Architect

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Sheet map:



Seal:

NORTH CAROLINA PROFESSIONAL SEAL 53676 ENGINEER BRYAN A. HARRIS

Bryan Harris

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Date: 2026.11.04 11:58:00 -05'00'

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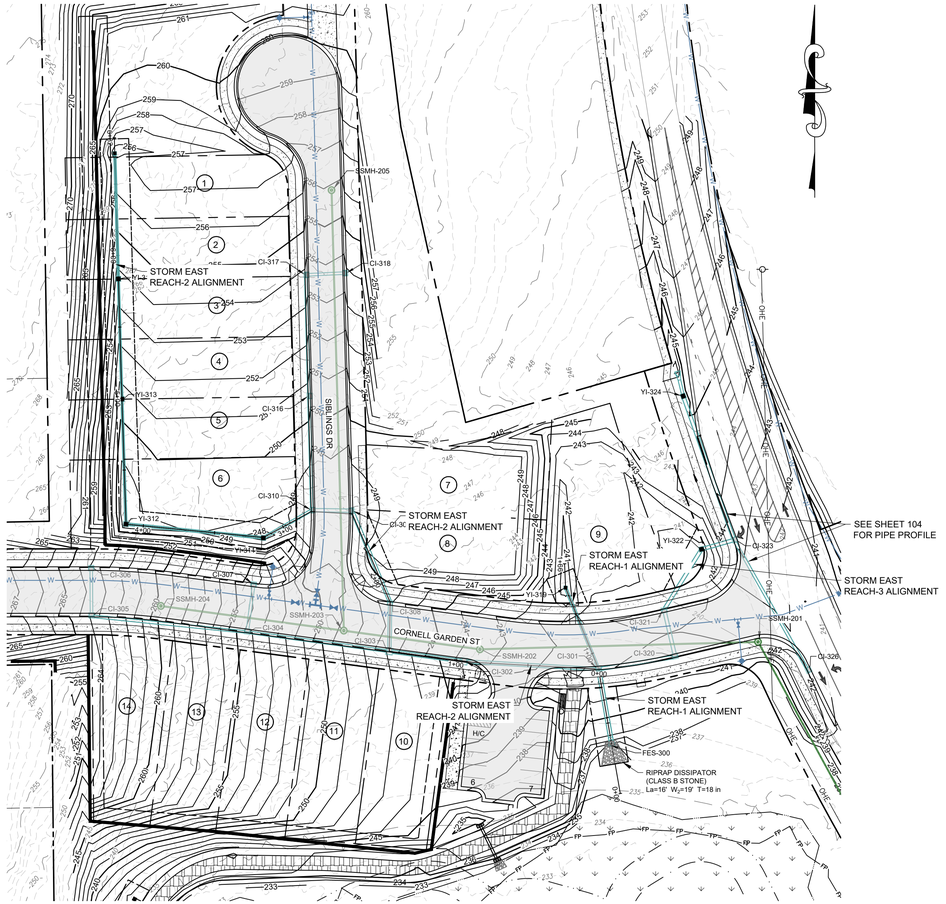
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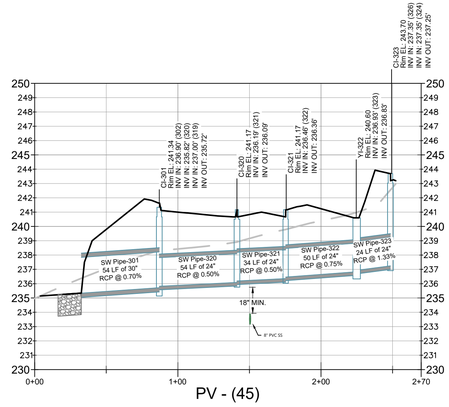
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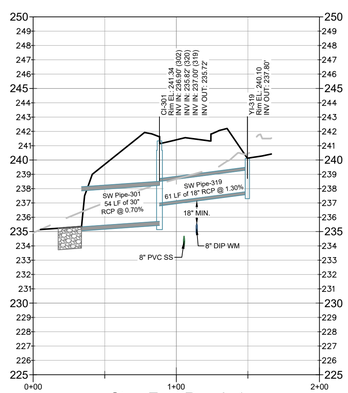


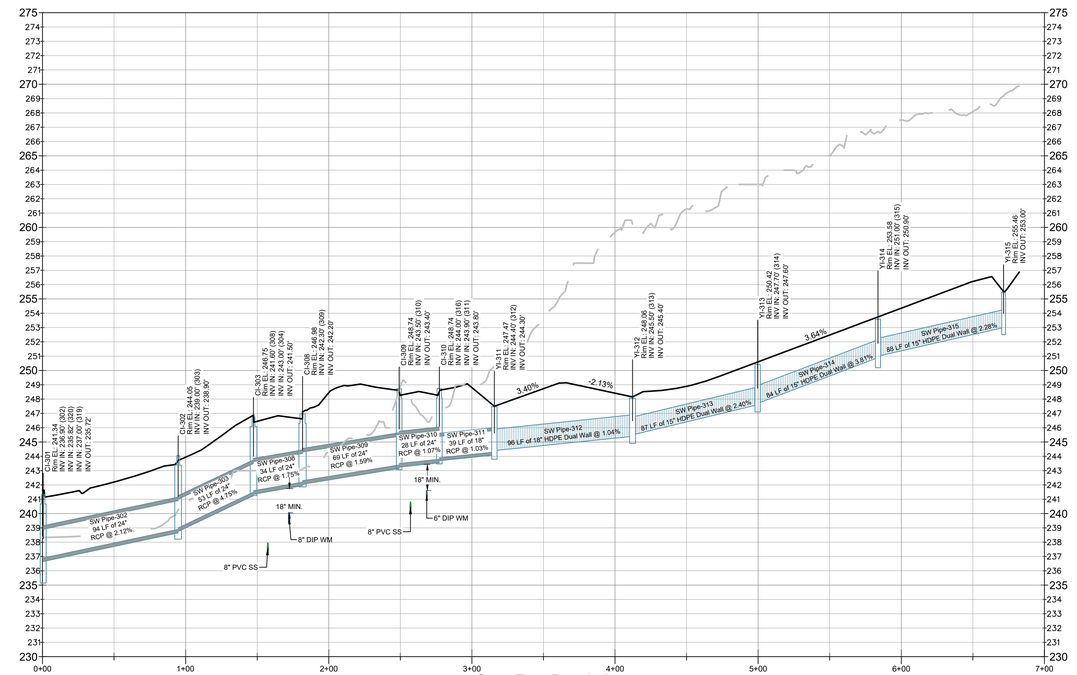
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(IN FEET)
1 inch = 50 ft







0' 50' 100'
HORZ 1" = 50'

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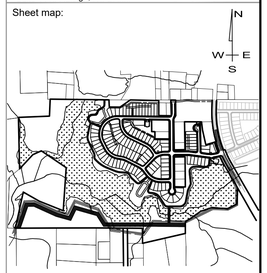
Jurisdiction / Municipality

Rolesville Growing Community + Capital Connection Est. 1837
Town of Rolesville
502 Southtown Cir
Rolesville, NC 27571
Phone: 919-554-6517
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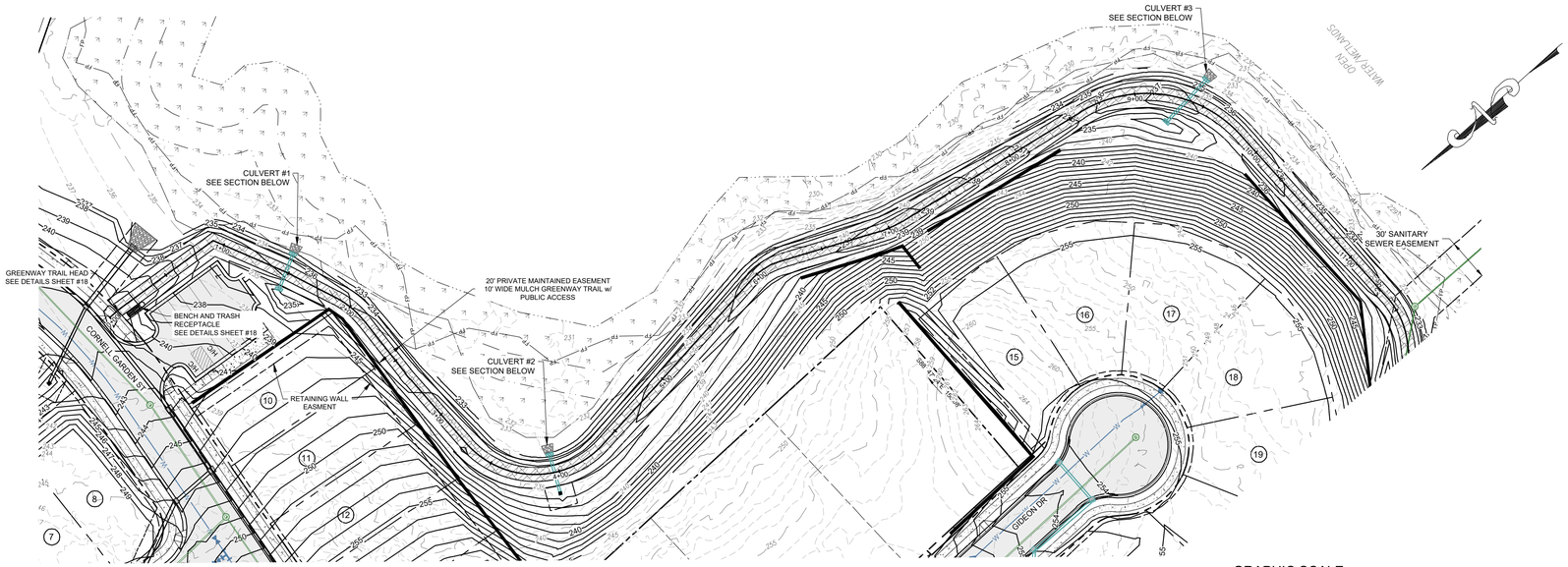
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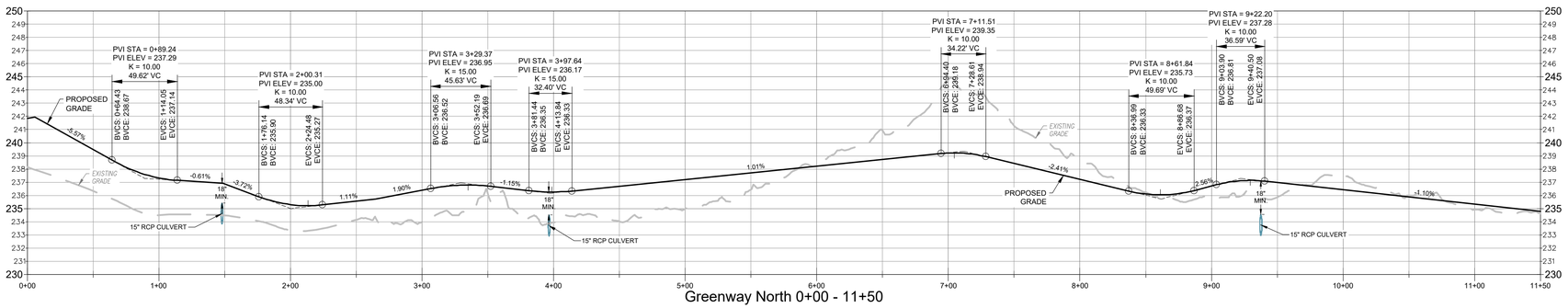
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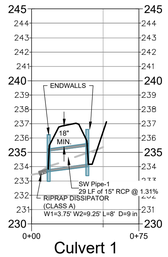
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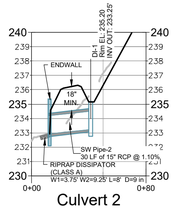




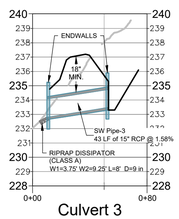
Greenway North 0+00 - 11+50



Culvert 1



Culvert 2



Culvert 3

HORZ 1" = 50'

VERT 1" = 5'

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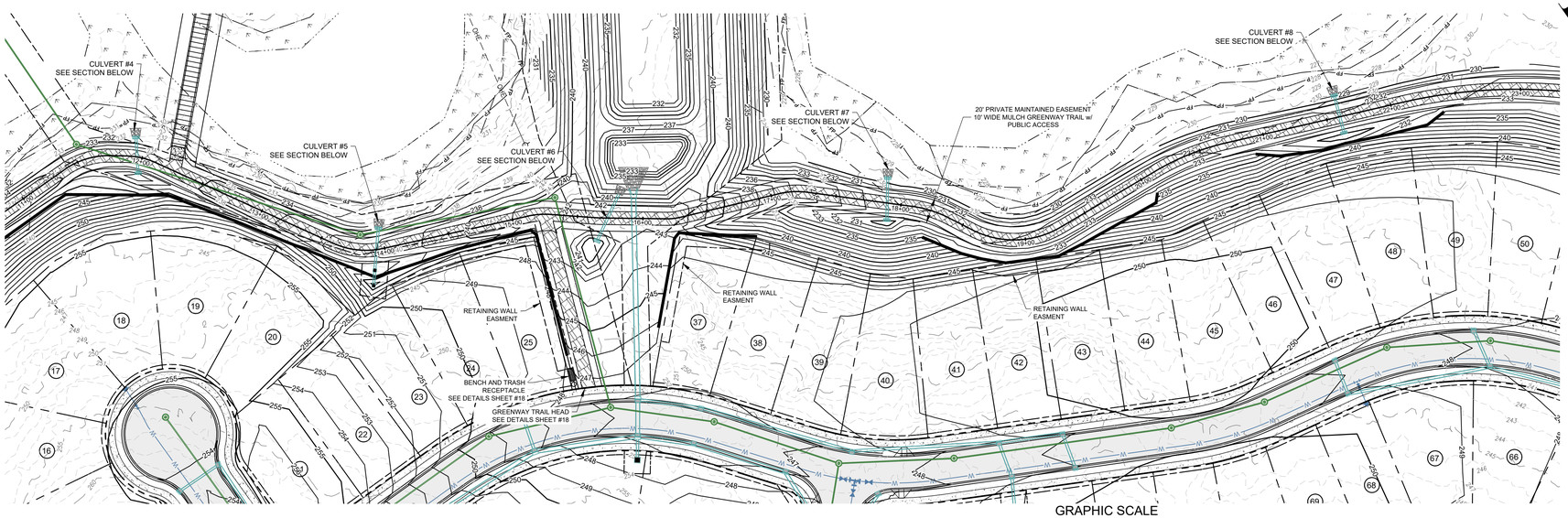
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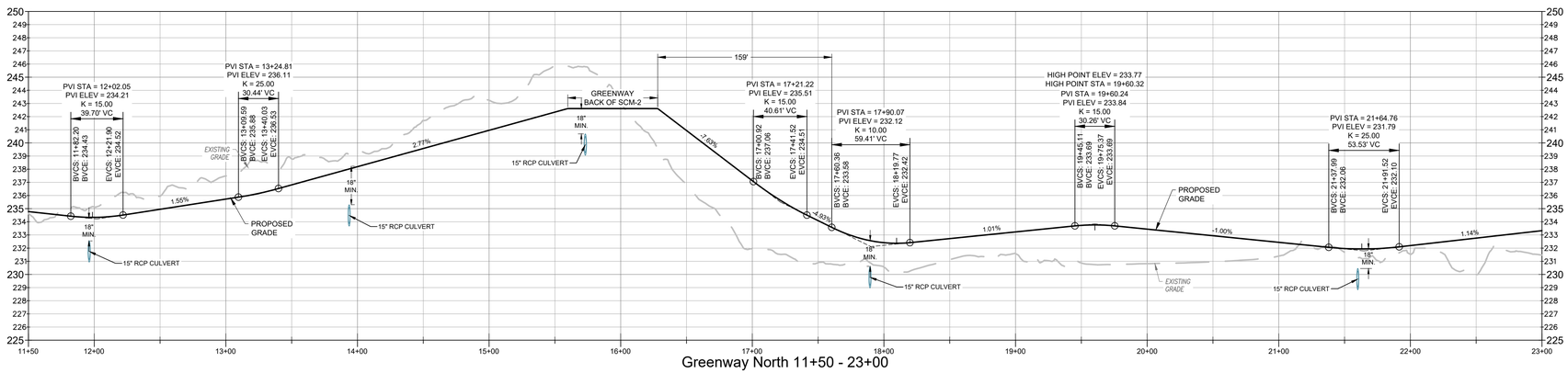
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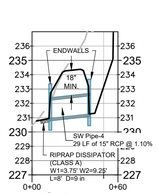
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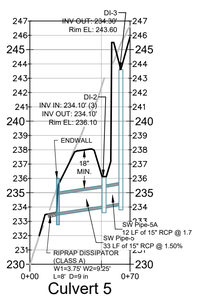
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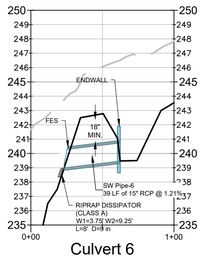
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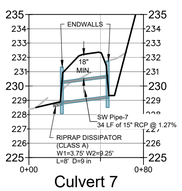
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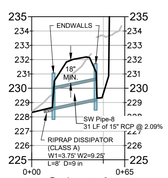
Culvert 5



Culvert 6



Culvert 7



Culvert 8

HORZ 1" = 50'

VERT 1" = 5'

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Landscape Architect

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Sheet map:

Seal:

NORTH CAROLINA
PROFESSIONAL
SEAL
53676
ENGINEER
BRYAN A. HARRIS

Bryan Harris
Digitally signed by Bryan Harris
DN: CN=US, E=bharris@QuantechEng.com, O=Quantech Engineering LLP, CN=Bryan Harris
Date: 2026.11.04 11:58:04 -05'00'

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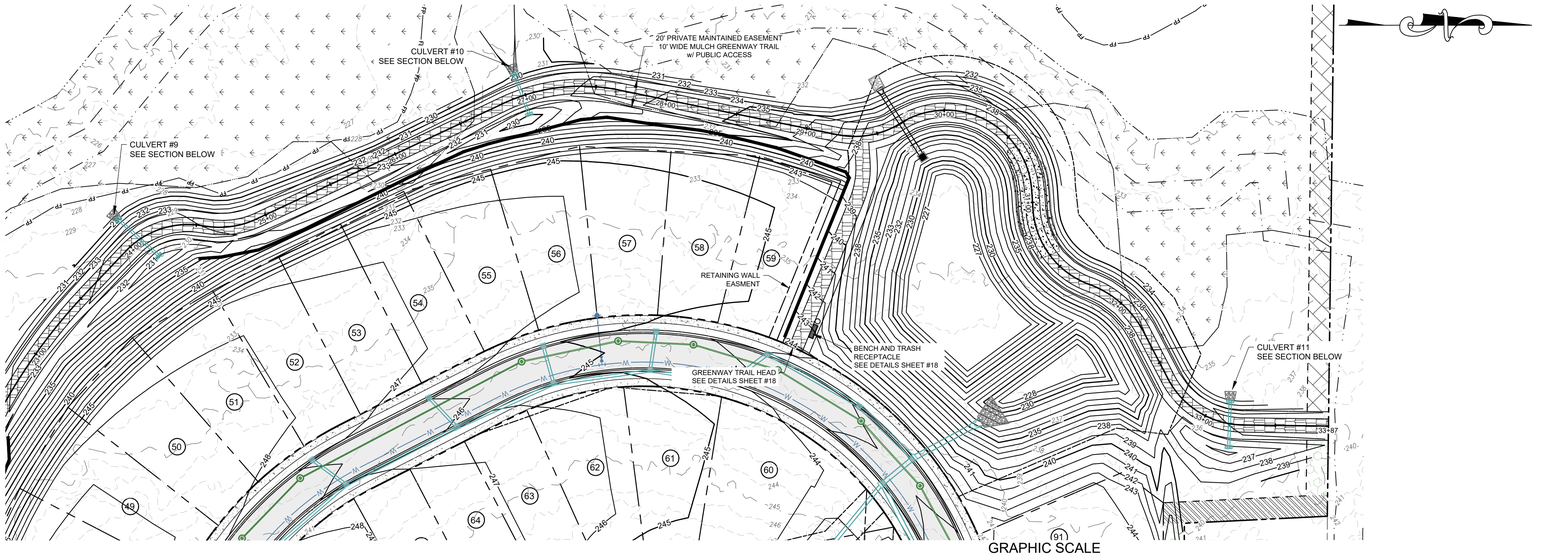
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PLAN & PROFILE
11+50 - 23+00

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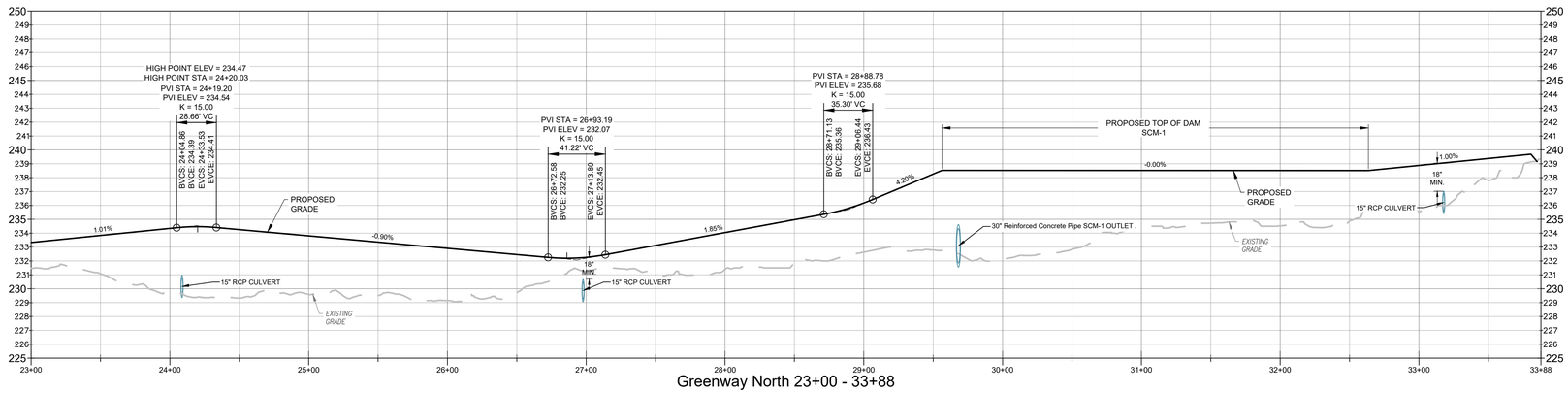
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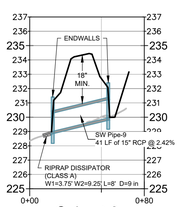
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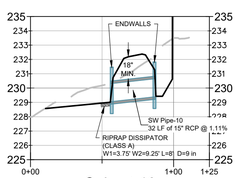
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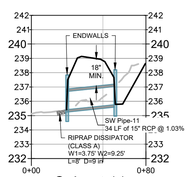
Greenway North 23+00 - 33+88



Culvert 9



Culvert 10



Culvert 11

0' 50' 100'
HORZ 1" = 50'

0' 5' 10'
VERT 1" = 5'

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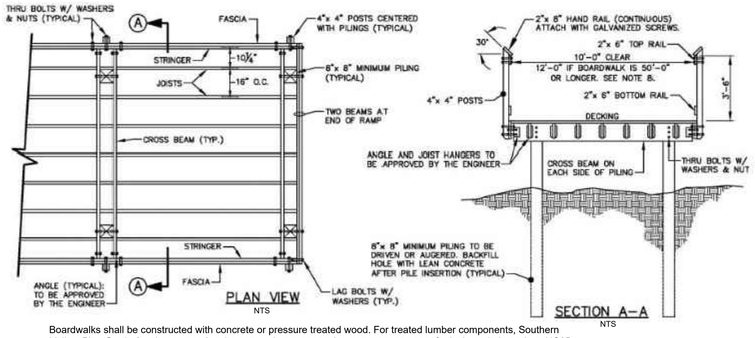
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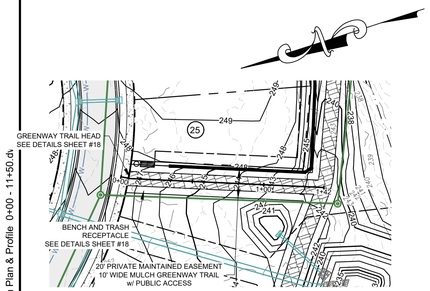
GREENWAY NORTH
PLAN & PROFILE
23+00 - 33+88

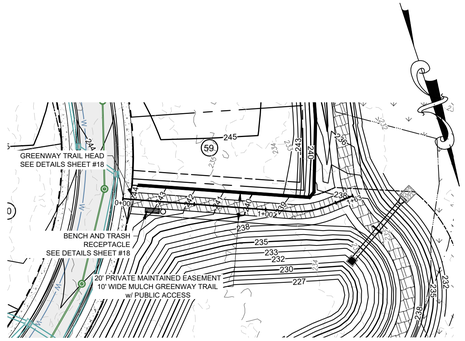
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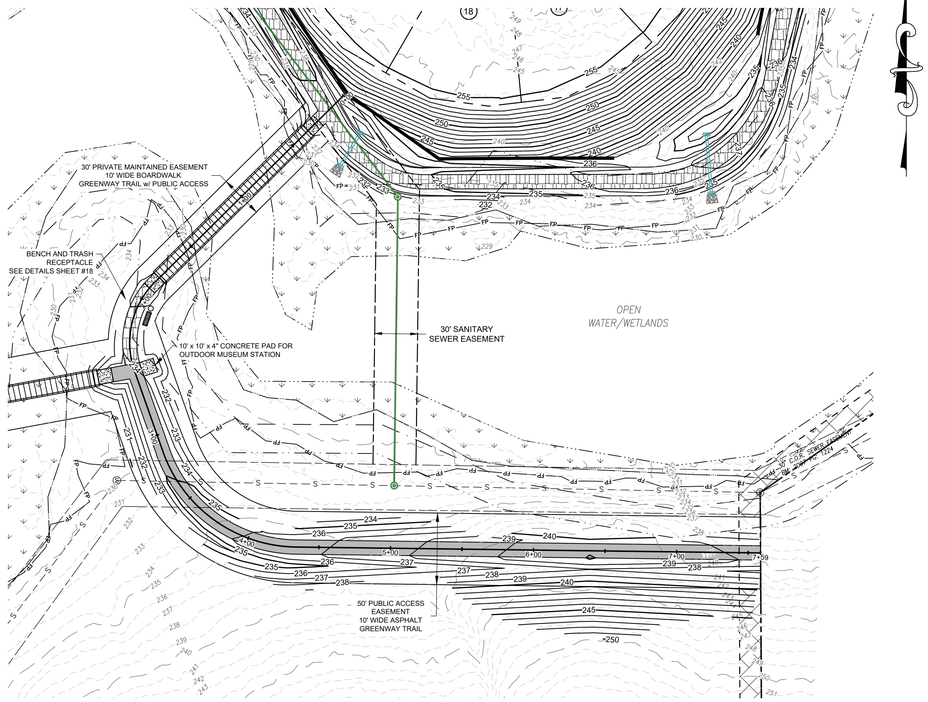
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Boardwalks shall be constructed with concrete or pressure treated wood. For treated lumber components, Southern Yellow Pine Grade 2 or better meeting the appropriate preservative treatment category for its intended use (e.g. UC3B for non-ground contact and UC4A for ground contact) shall be used, with the decking and handrail being a composite material (moisture shield). The composite material shall provide a minimum 10-year manufacturer warranty.



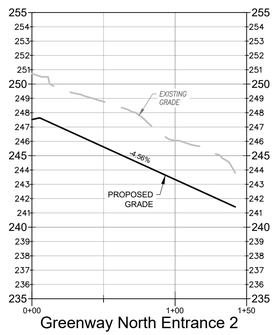


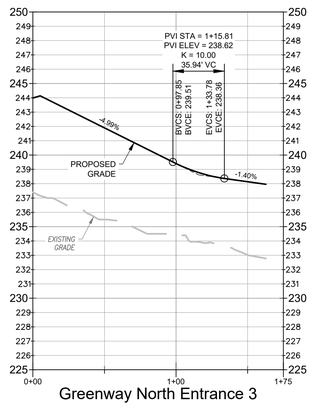


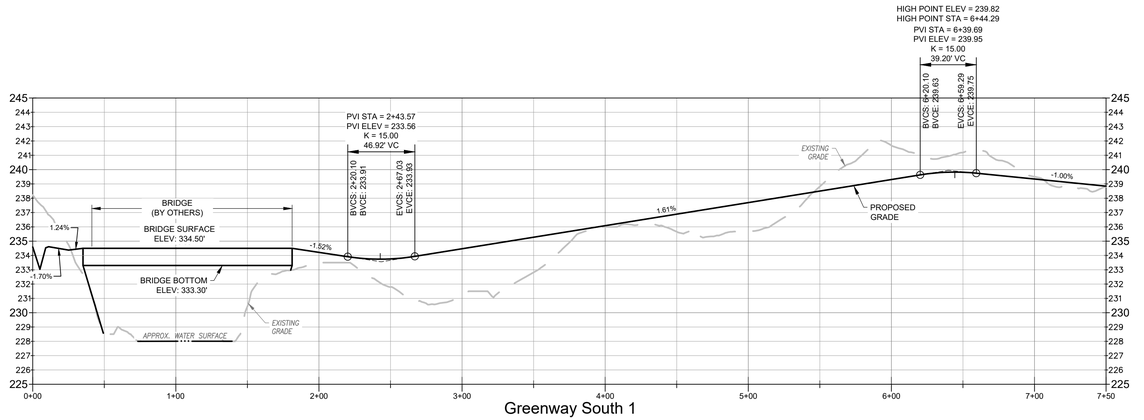
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No.	Date	Description

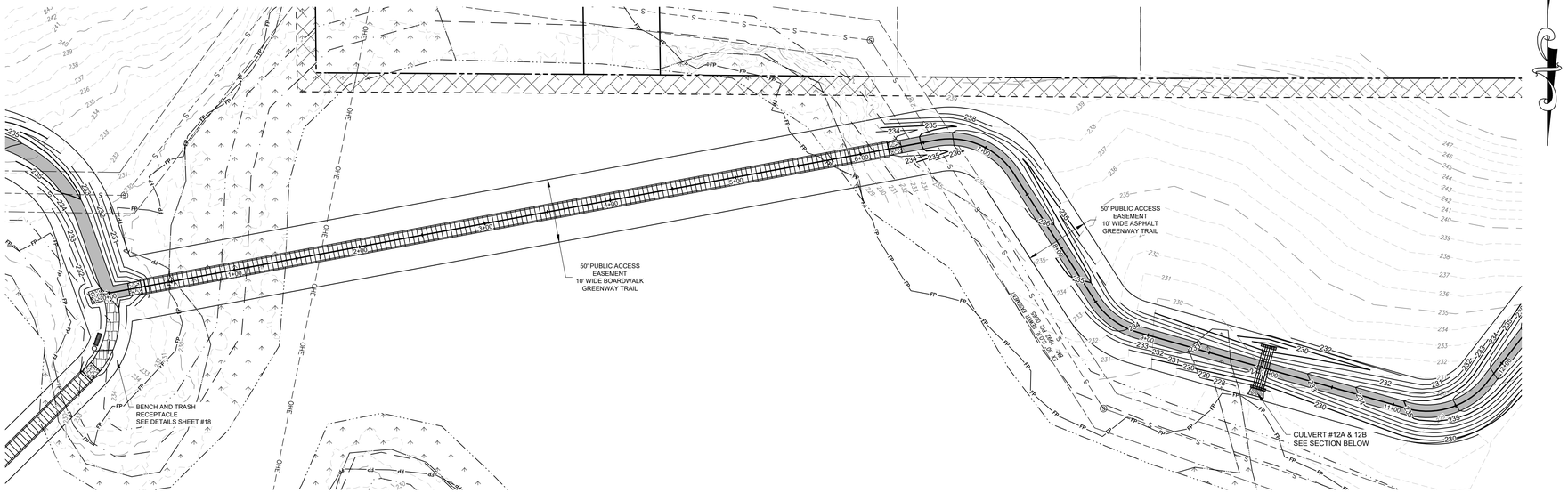
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GREENWAY NORTH ENTRANCES AND SOUTH-1

Sheet #:

99

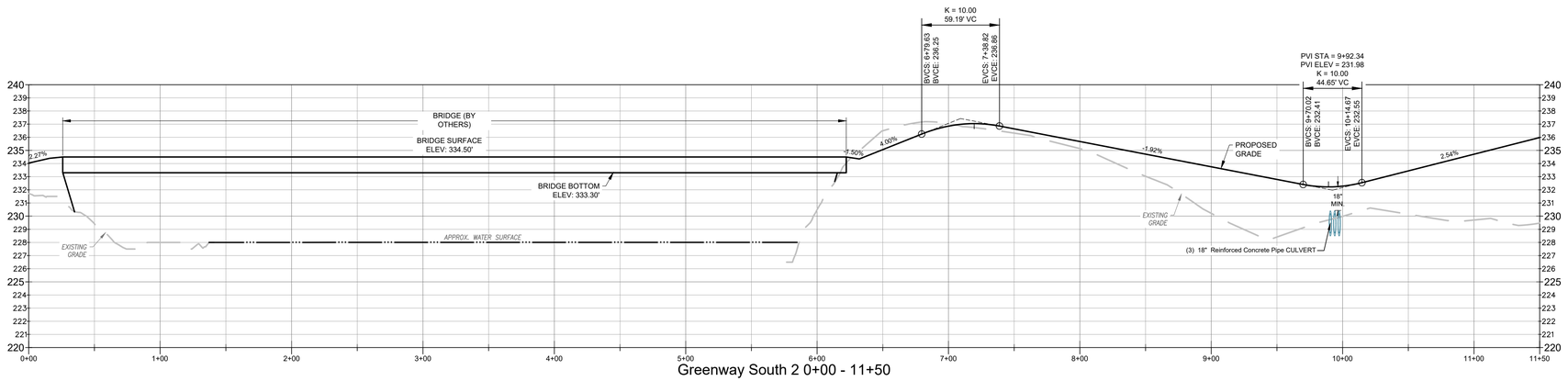
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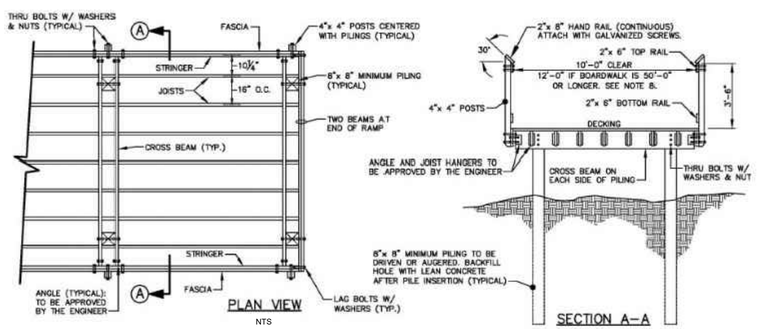
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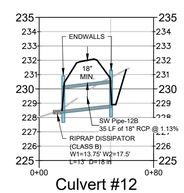
(IN FEET)
1 inch = 50 ft



Greenway South 2 0+00 - 11+50



Boardwalks shall be constructed with concrete or pressure treated wood. For treated lumber components, Southern Yellow Pine Grade 2 or better meeting the appropriate preservative treatment category for its intended use (e.g. UC3B for non-ground contact and UC4A for ground contact) shall be used, with the decking and handrail being a composite material (moisture shield). The composite material shall provide a minimum 10-year manufacturer warranty.



Culvert #12

0' 50' 100'
HORZ 1" = 50'

0' 5' 10'
VERT 1" = 5'

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Est. 1837
Town of Rolesville
502 Southtown Cir
Rolesville, NC 27571
Phone: 919-554-6517
CID-25-0004 (PSP-24-05)
Formally Known As CID-25-03

Landscape Architect

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305 Church at North Hills Street
Suite 1110 Raleigh, NC 27609
984-200-1932
information@strongrockengineering.com

Sheet map:

Seal:

NORTH CAROLINA PROFESSIONAL SEAL 53676 ENGINEER BRYAN A. HARRIS
Digitally signed by Bryan Harris
DN: cn=Bryan Harris, o=Quantech Engineering LLP, ou=Bryan Harris
Date: 2026.11.04 11:58:09-05'00'
Bryan Harris

Issued / Print Date: 2026-July-27 (11:03)
File Name: 96 Greenway North Plan & Profile 0+00 - 11+50.dwg

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Drawn by: TAN

Project:

HARRIS CREEK FARMS

CID 25-0004 (FKA - CID-25-03)

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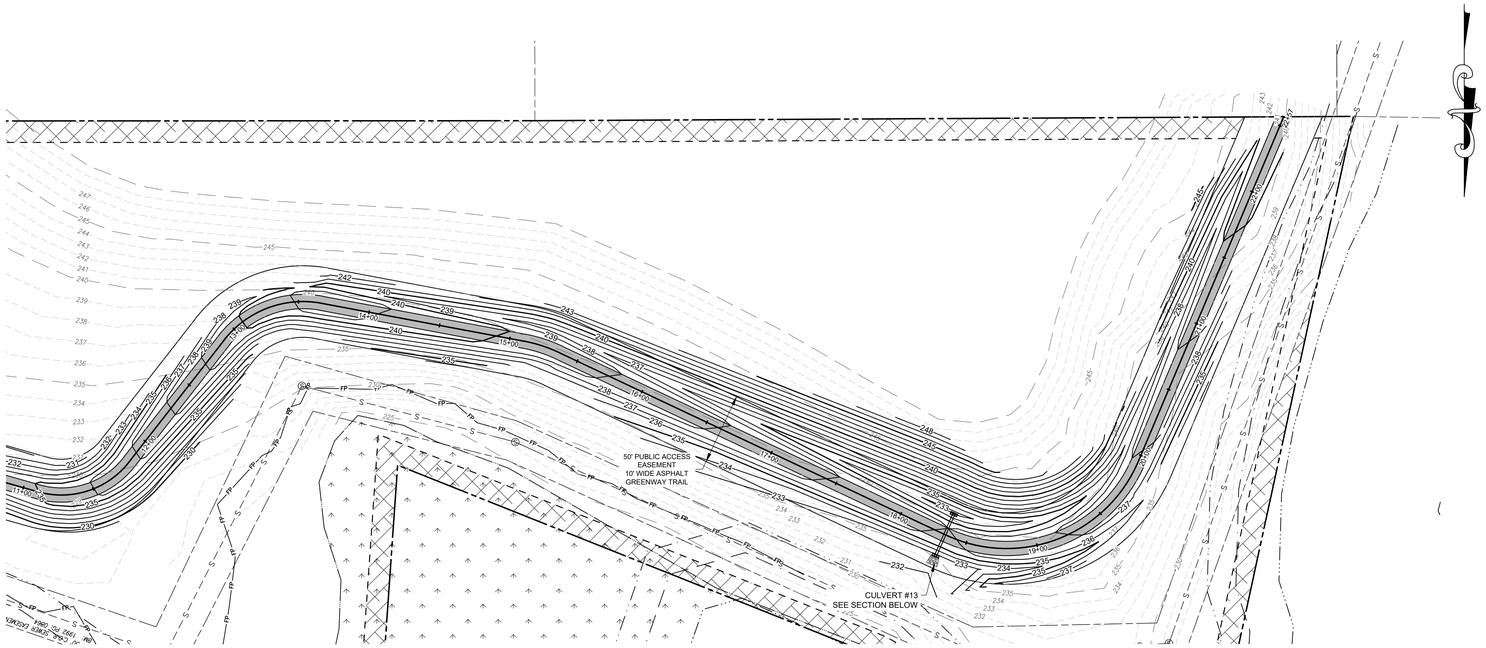
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GREENWAY SOUTH-2
0+00 - 11+50

Sheet #:

100

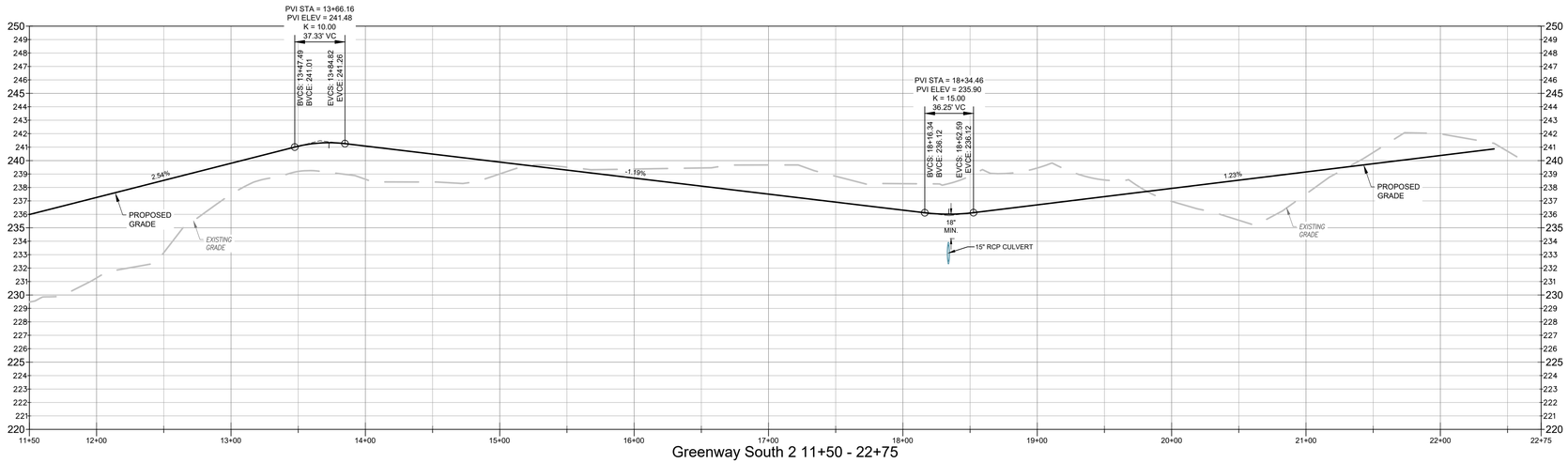
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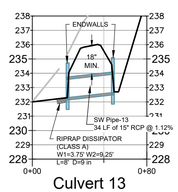
GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft



Greenway South 2 11+50 - 22+75



Culvert 13

0' 50' 100'
HORZ 1" = 50'

0' 5' 10'
VERT 1" = 5'

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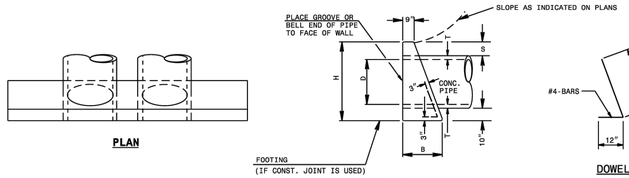
No.	Date	Description

Sheet Title:

GREENWAY SOUTH-2
11+50 - 22+57

Sheet #:

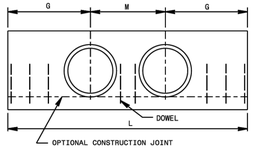
101



PLAN

END ELEVATION

DOWEL
BAR-"X"



ELEVATION

DOWELS IN ENDWALL WITH REINFORCED CONCRETE PIPE

LOC.	PIPE DIA.	SINGLE PIPE 15"	18"	24"	30"	36"	42"		48"		DOUBLE PIPE 15"	18"	24"	30"	36"	42"		48"	
	BARS	"X"	"X"	"X"	"X"	"X"	"X"	Y*	"X"	Y*	"X"	"X"	"X"	"X"	"X"	"X"	Y*	"X"	Y*
G	QTY.	2	2	3	4	4			5		2	2	3	4	4			5	
M	QTY.	-	-	-	-	-		2	-	2	1	1	2	2	2		2	3	2
G	QTY.	2	2	3	3	4	4		5		2	2	3	3	4	4		5	
TOTAL LBS.		9	9	14	14	19	55		65		12	12	19	19	23	77		92	

DIMENSIONS AND CONCRETE QUANTITIES
USING CONCRETE PIPE

	COMMON DIMENSIONS					SINGLE PIPE		DOUBLE PIPE		
D	H	B	G	T	S	L	YD^3	M	L	YD^3
15"	3'-3"	1'-8"	2'-9"	2¼"	9½"	5'-6"	0.7	2'-2"	7'-8"	1.0
18"	3'-7"	1'-10"	3'-2"	2½"	10"	6'-4"	1.0	2'-7"	8'-11"	1.3
24"	4'-2"	2'-1"	4'-0"	3"	10"	8'-0"	1.5	3'-5"	11'-5"	2.0
30"	5'-0"	2'-6"	4'-7"	4¼"	11½"	9'-2"	2.3	4'-3"	13'-5"	3.1
36"	5'-8"	2'-8"	5'-6"	4¾"	11½"	11'-0"	3.4	5'-0"	16'-0"	4.5
42"	6'-2"	3'-1"	6'-4"	5¼"	11½"	12'-8"	4.5	5'-10"	18'-6"	6.0
48"	6'-9"	3'-5"	7'-2"	5¾"	11½"	14'-4"	6.0	6'-8"	21'-0"	8.0

*SEE SHEET 3

STATE OF NORTH CAROLINA
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1-24

ROADWAY STANDARD DRAWING FOR
CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS
15" THRU 48" PIPE - 90° SKEW

SHEET 1 OF 3
838.01

GENERAL NOTES:

CHAMFER ALL CORNERS 1" OR HAVE A RADIUS OF 1".

PLACE 2 #6 "Y" BARS IN THE TOP OF ALL ENDWALL FOR PIPE CULVERTS 42" AND OVER WITH A MINIMUM OF 3" COVER AND A LENGTH OF 6" LESS THAN ENDWALL LENGTH.

CONSTRUCT BOTTOM SLAB WITH FORMS.

DO NOT INTERPRET WALL THICKNESS (T) SHOWN FOR THE THICKNESS ACCEPTABLE, BUT IS USED IN COMPUTING ENDWALL QUANTITIES.

WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE, PLACE BAR "X" DOWELS IN THE BASE AS SHOWN ON PLANS. SPACE BARS APPROXIMATELY ON 12" CENTERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

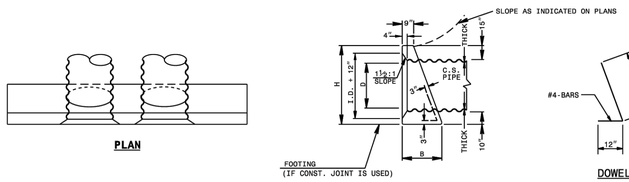
WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE AND POUR THE BASE SEPARATELY LEAVE THE POUR ROUGH.

USE CLASS "B" CONCRETE.

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1-24

ROADWAY STANDARD DRAWING FOR
CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS
15" THRU 48" PIPE - 90° SKEW

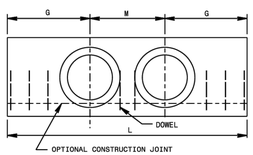
SHEET 3 OF 3
838.01



PLAN

END ELEVATION

DOWEL
BAR-"X"



ELEVATION

DOWELS IN ENDWALL WITH C. S. PIPE

LOC.	PIPE DIA.	SINGLE PIPE 15"	18"	24"	30"	36"	42"		48"		DOUBLE PIPE 15"	18"	24"	30"	36"	42"		48"	
	BARS	"X"	"X"	"X"	"X"	"X"	"X"	Y*	"X"	Y*	"X"	"X"	"X"	"X"	"X"	"X"	Y*	"X"	Y*
G	QTY.	2	2	3	3	4	4		5		2	2	3	3	4	4		5	
M	QTY.	-	-	-	-	-		2	-	2	1	1	1	2	2	2	2	2	2
G	QTY.	2	2	3	3	4	4		5		2	2	3	3	4	4		5	
TOTAL LBS.		9	9	14	14	19	53		62		12	12	16	19	23	73		85	

DIMENSIONS AND CONCRETE QUANTITIES
USING CORRUGATED STEEL PIPE

	COMMON			SINGLE PIPE		DOUBLE PIPE		
D	H	B	G	L	YD^3	M	L	YD^3
15"	3'-4"	1'-8"	2'-6"	5'-0"	0.7	1'-11"	6'-11"	1.0
18"	3'-7"	1'-10"	2'-11"	5'-10"	1.0	2'-3"	8'-1"	1.2
24"	4'-1"	2'-1"	3'-8"	7'-4"	1.4	3'-0"	10'-4"	1.9
30"	4'-7"	2'-4"	4'-5"	8'-10"	2.0	3'-9"	12'-7"	2.7
36"	5'-1"	2'-7"	5'-2"	10'-4"	2.8	4'-6"	14'-10"	3.8
42"	5'-7"	2'-10"	5'-11"	11'-10"	3.8	5'-3"	17'-1"	5.0
48"	6'-1"	3'-1"	6'-8"	13'-4"	4.9	6'-0"	19'-4"	7.5

*SEE SHEET 3

STATE OF NORTH CAROLINA
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1-24

ROADWAY STANDARD DRAWING FOR
CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS
15" THRU 48" PIPE - 90° SKEW

SHEET 2 OF 3
838.01

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Sheet map:

Seal:
NORTH CAROLINA PROFESSIONAL SEAL 53676 ENGINEER BRYAN A. HARRIS
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DN: CN=US, E=bryan@QuantechEng.com, O=Quantech Engineering LLP, CN=Bryan Harris
Date: 2026.11.04 11:58:11-05'00'
Bryan Harris

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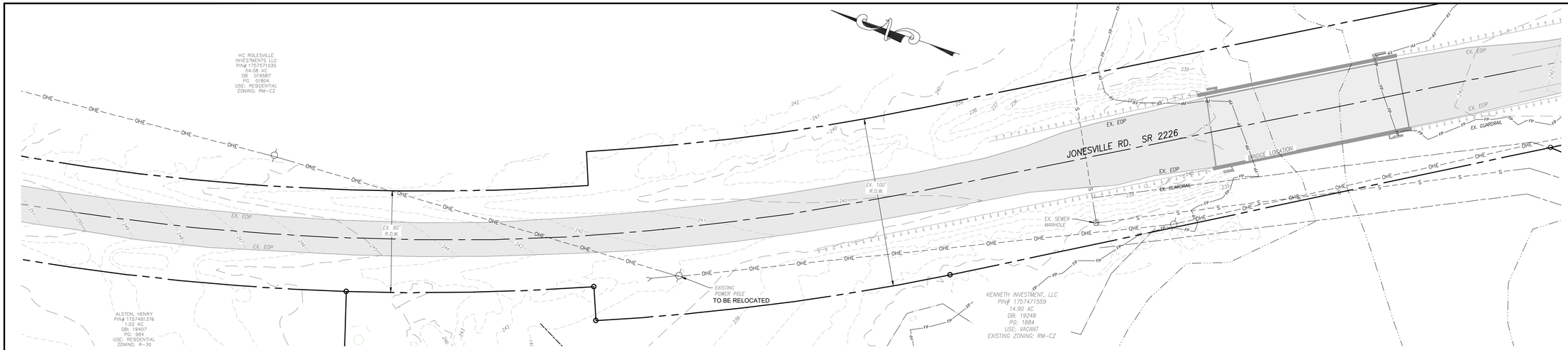
GREENWAY CULVERT DETAILS

Sheet #:

102

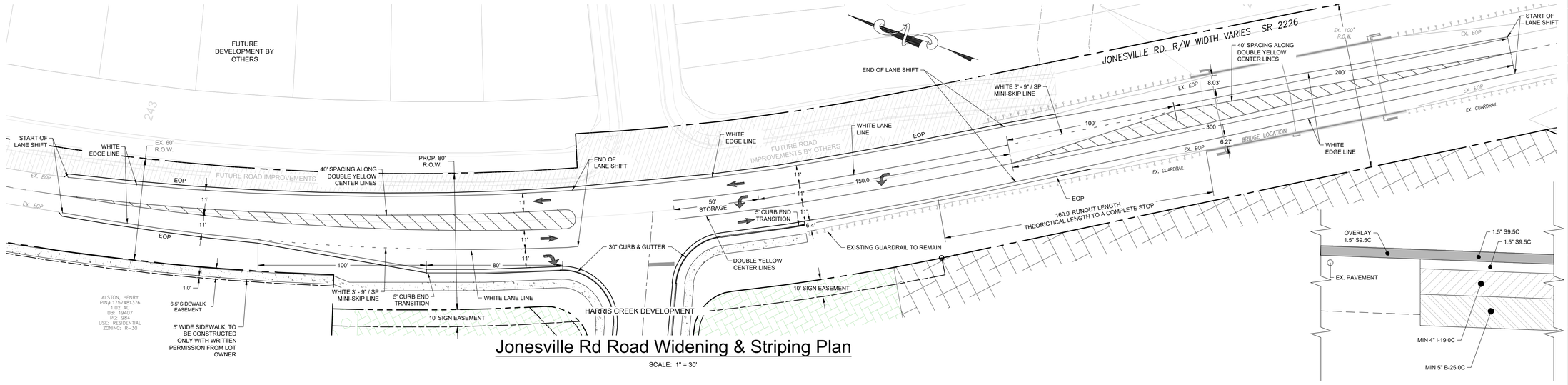
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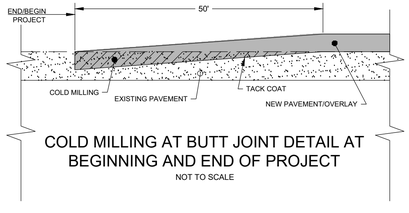
Jonesville Road Existing Conditions

SCALE: 1" = 30'



Jonesville Rd Road Widening & Striping Plan

SCALE: 1" = 30'



COLD MILLING AT BUTT JOINT DETAIL AT BEGINNING AND END OF PROJECT

NOT TO SCALE

NOTE: THE FINAL PAVEMENT SECTION SHALL BE DETERMINED BY THE OWNERS GEOTECHNICAL ENGINEER AND APPROVED BY NCDOT PRIOR TO CONSTRUCTION

Jonesville Rd Road Paving Plan

SCALE: 1" = 30'

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft

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File Location: C:\Users\BryanHarris\Quantech\Quantech Engineering - Documents\Harris Creek Farm - Jonesville\Engineering_DWG\Construction Plans\103 Jonesville Ex Condition Road Widen Striping Paving.dwg

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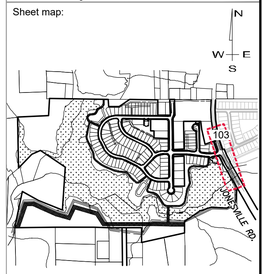
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Permit Nbr: N/A-139-25

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Bryan Harris

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Sheet Title:

JONESVILLE EXISTING CONDITION, ROAD WIDEN STRIPING & PAVING

Sheet #:

103



JONESVILLE ROAD GRADING & DRAINAGE PLAN

GRAPHIC SCALE

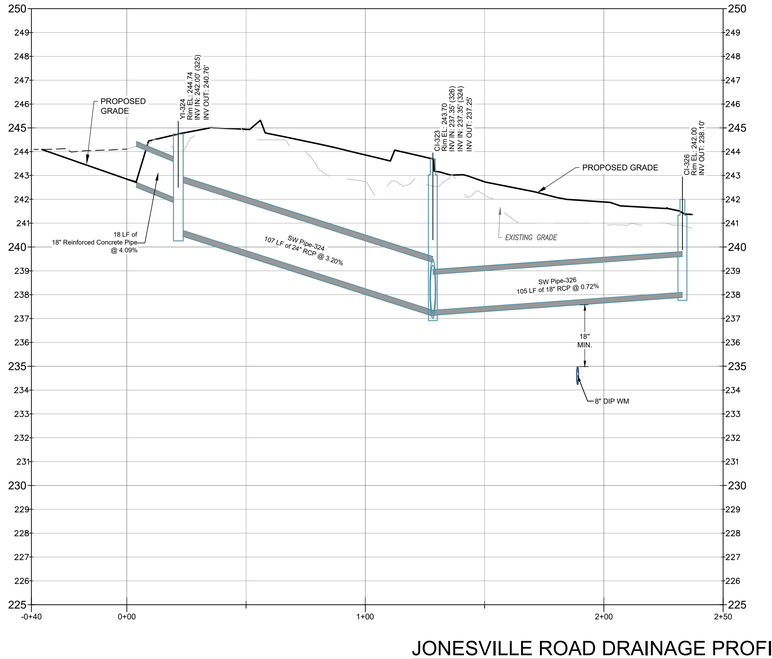
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(IN FEET)

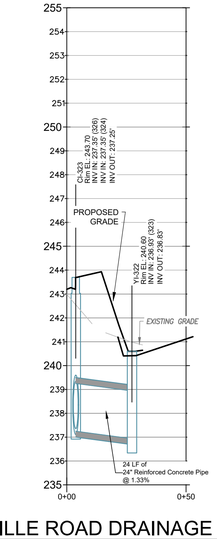
1 inch = 30 ft

LEGEND:

PROPOSED PAVEMENT



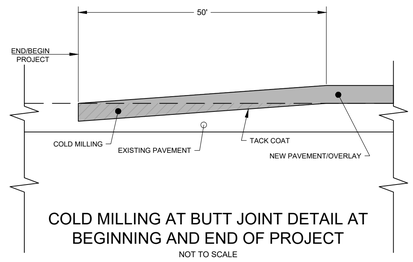
JONESVILLE ROAD DRAINAGE PROFILE ALIGNMENT 1



JONESVILLE ROAD DRAINAGE PROFILE ALIGNMENT 2

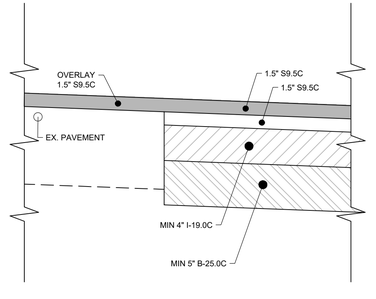
HORZ 1" = 30'

VERT 1" = 3'



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NOT TO SCALE



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Est. 1837

Town of Rolesville
502 Southtown Cir
Rolesville, NC 27571
Phone: 919-554-6517

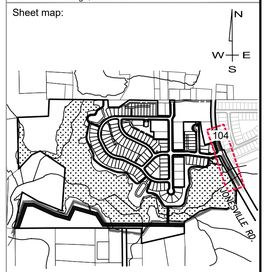
CID-25-0004 (PSP-24-05)
Permits Issued: 4/28/2026

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NORTH CAROLINA PROFESSIONAL SEAL 53676 ENGINEER BRYAN A. HARRIS

Bryan Harris

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O=QuanTech Engineering LLP,
OU=Bryan Harris
Date: 2026.11.04 11:58:13-05'00'

Issued / Print Date: 2026-July-27 (11:05)

File Name: 103 Jonesville Ex Condition Road Widen Striping Paving.dwg

Last Saved by: BryanHarris

Drawn by: TAN

Project:

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CID 25-0004 (FKA - CID-25-03)

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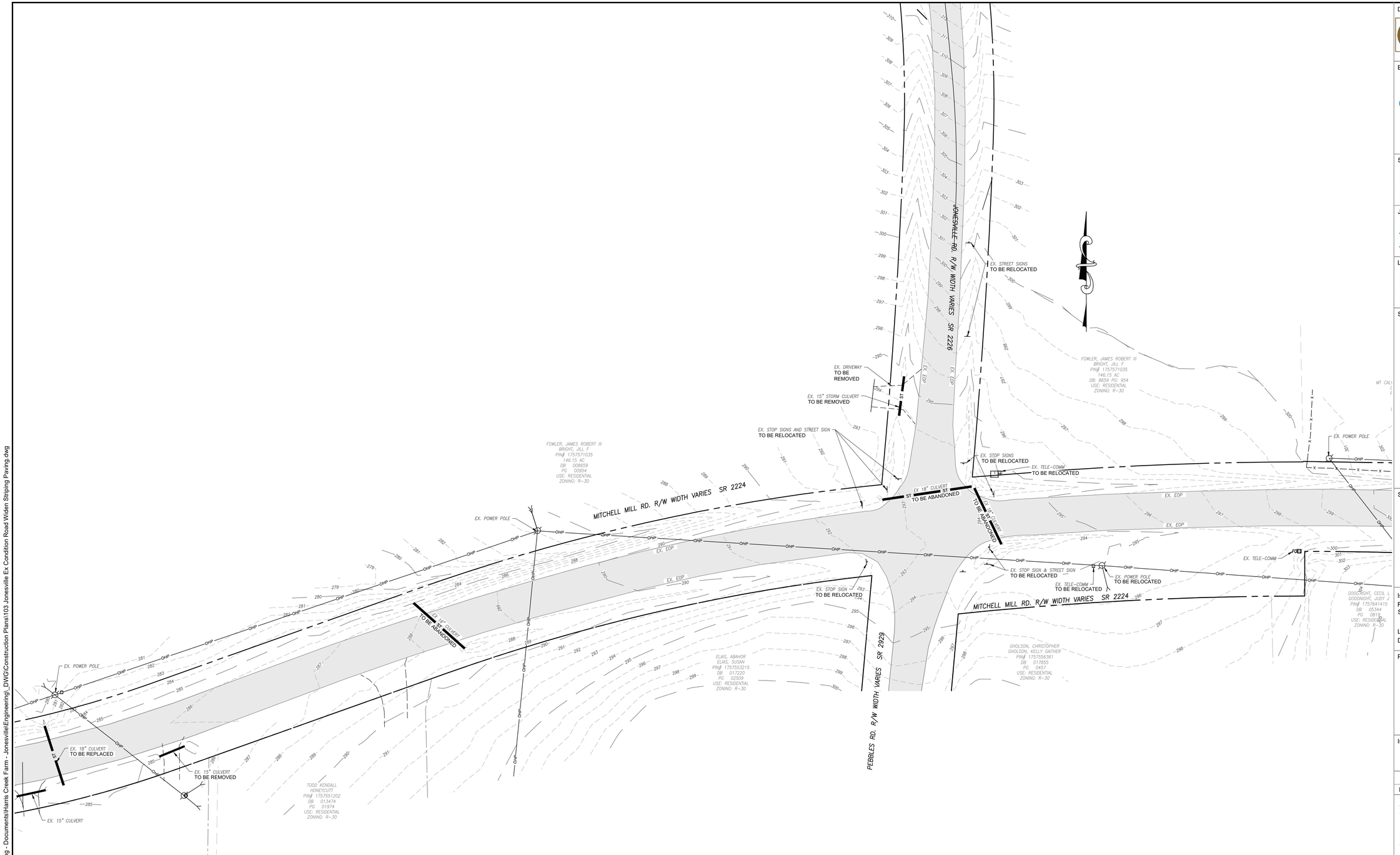
Sheet Title:

JONESVILLE ROAD GRADING AND DRAINAGE PLAN & PROFILES

Sheet #:

104

File Location: C:\Users\BryanHarris\Quantech\Quantech Engineering - Documents\Harris Creek Farm - Jonesville\Engineering_DWG\Construction Plans\103 Jonesville Ex Condition Road Widen Striping Paving.dwg



NOTE:

PIPES THAT ARE TO BE ABANDONED WILL REQUIRE THE PIPE TO BE FILLED WITH CONCRETE OR OTHER SUITABLE SUBSTANCE AND CAPPED AT BOTH ENDS.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft

N.C. UNDERGROUND UTILITIES

811 3 DAYS BEFORE DIGGING CALL TOLL FREE 811 or (800)632-4949

A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY

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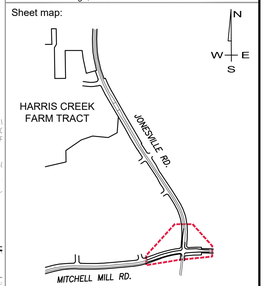
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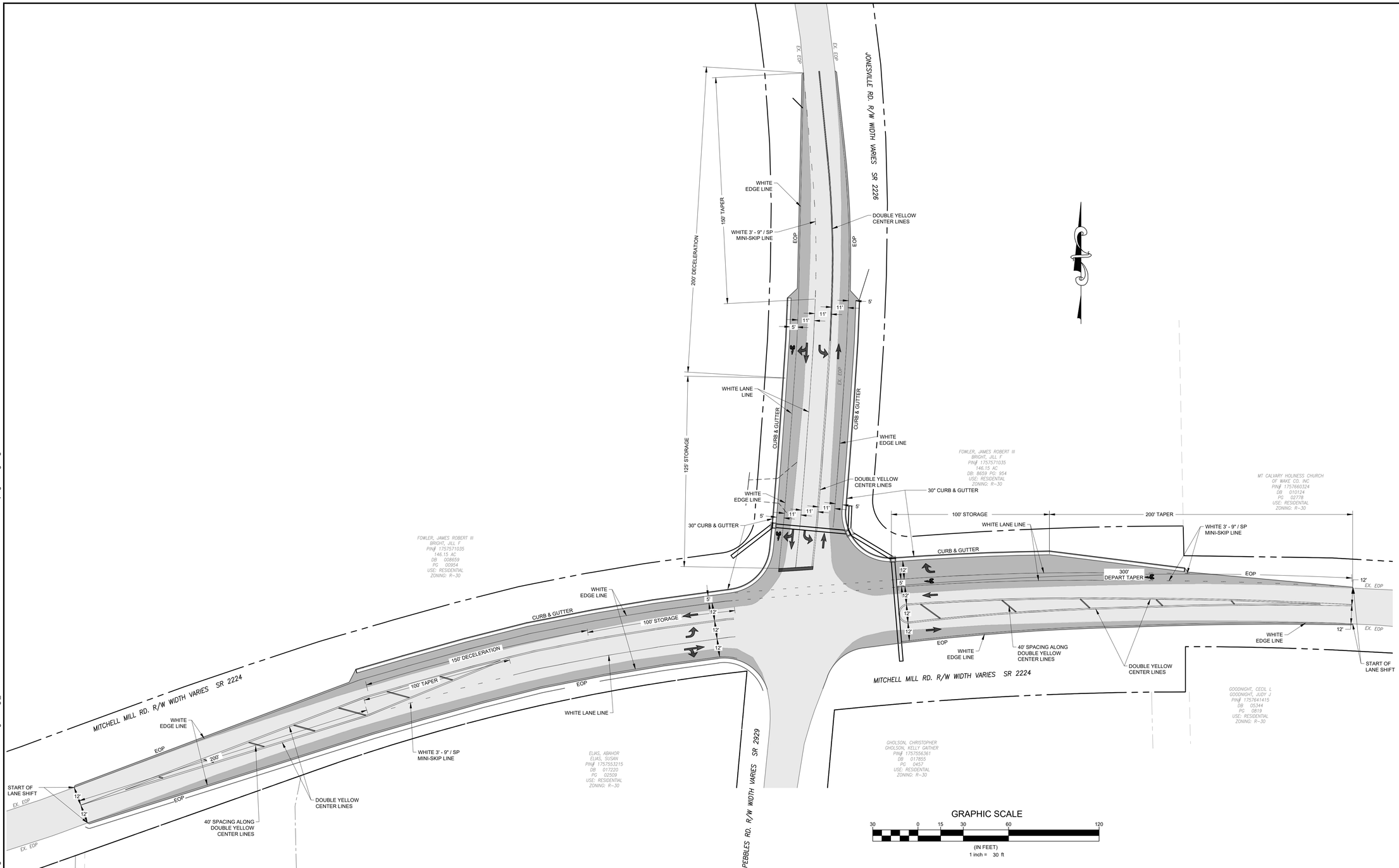
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Sheet Title:

MITCHELL MILL EXISTING CONDITIONS & DEMOLITION PLAN

Sheet #:

105



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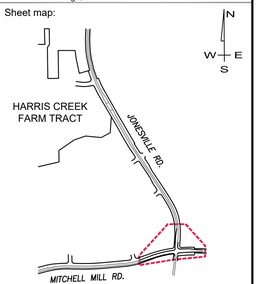
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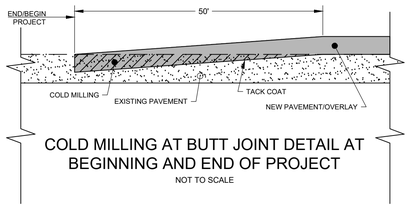
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MITCHELL MILL WIDENING & STRIPING PLAN

Sheet #:

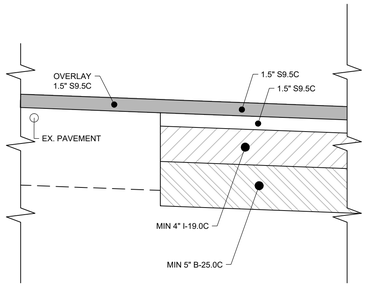
106

N.C. UNDERGROUND UTILITIES
811
3 DAYS BEFORE DIGGING CALL TOLL FREE 811 or (800)632-4949
A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY



COLD MILLING AT BUTT JOINT DETAIL AT BEGINNING AND END OF PROJECT

NOT TO SCALE



NOTE: THE FINAL PAVEMENT SECTION SHALL BE DETERMINED BY THE OWNERS GEOTECHNICAL ENGINEER AND APPROVED BY NCDOT PRIOR TO CONSTRUCTION

PAVING LEGEND

- EXISTING PAVEMENT TO BE MILLED
- OVERLAY PAVEMENT
- PROPOSED PAVEMENT

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft

N.C. UNDERGROUND UTILITIES

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Est. 1837

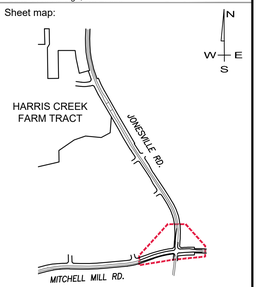
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Bryan Harris

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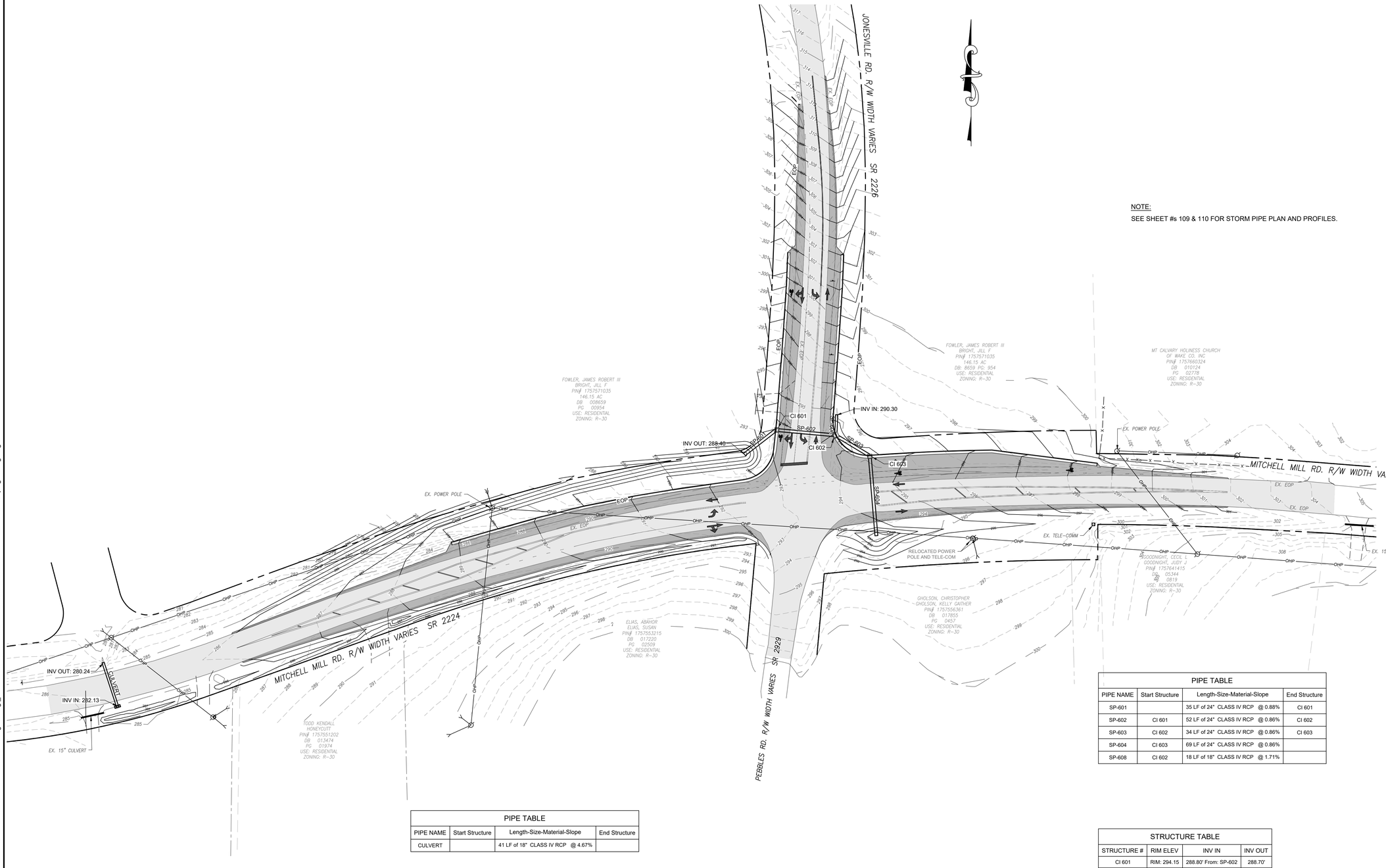
No.	Date	Description

Sheet Title:

MITCHELL MILL JONESVILLE INTERSECTION PAVING PLAN

Sheet #:

107



NOTE:

SEE SHEET #s 109 & 110 FOR STORM PIPE PLAN AND PROFILES.

PIPE TABLE			
PIPE NAME	Start Structure	Length-Size-Material-Slope	End Structure
SP-601		35 LF of 24" CLASS IV RCP @ 0.88%	CI 601
SP-602	CI 601	52 LF of 24" CLASS IV RCP @ 0.86%	CI 602
SP-603	CI 602	34 LF of 24" CLASS IV RCP @ 0.86%	CI 603
SP-604	CI 603	69 LF of 24" CLASS IV RCP @ 0.86%	
SP-608	CI 602	18 LF of 18" CLASS IV RCP @ 1.71%	

PIPE TABLE			
PIPE NAME	Start Structure	Length-Size-Material-Slope	End Structure
CULVERT		41 LF of 18" CLASS IV RCP @ 4.67%	

STRUCTURE TABLE			
STRUCTURE #	RIM ELEV	INV IN	INV OUT
CI 601	RIM: 294.15	288.80' From: SP-602	288.70'
CI 602	RIM: 294.91	289.24' From: SP-603 290.00' From: SP-608	289.24'
CI 603	RIM: 294.44	289.53' From: SP-604	289.53'

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)

1 inch = 40 ft

N.C. UNDERGROUND UTILITIES

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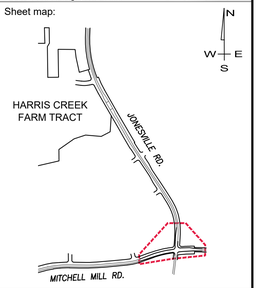
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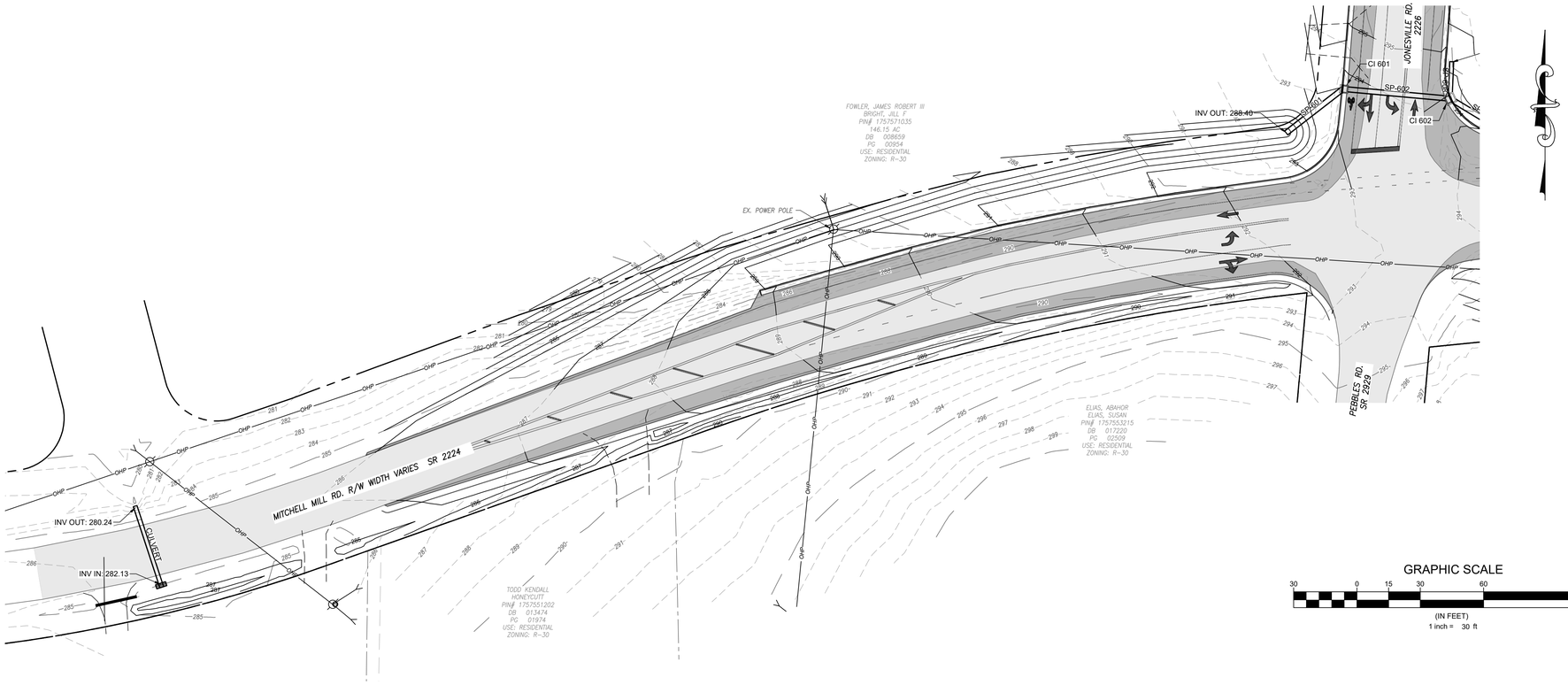
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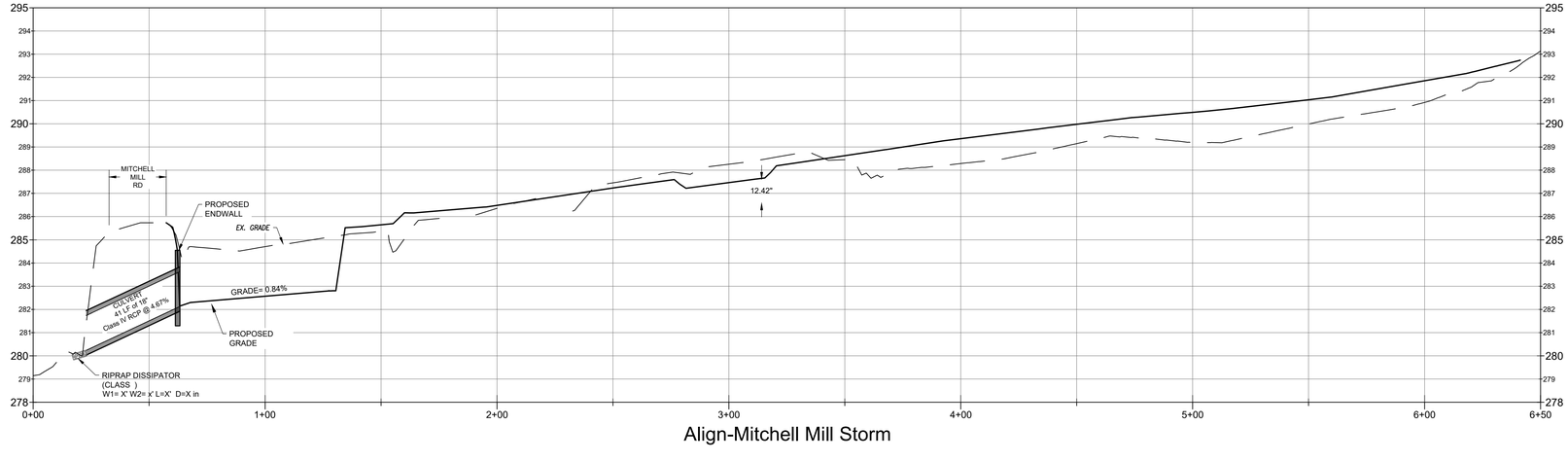
MITCHELL MILL GRADING & DRAINAGE PLAN

Sheet #:

108

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Align-Mitchell Mill Storm

VERT 1" = 3'

HORZ 1" = 30'

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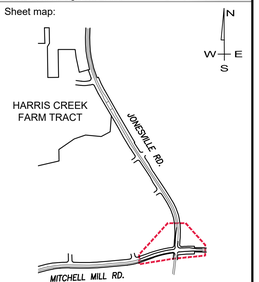
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Phone: 919-554-6517
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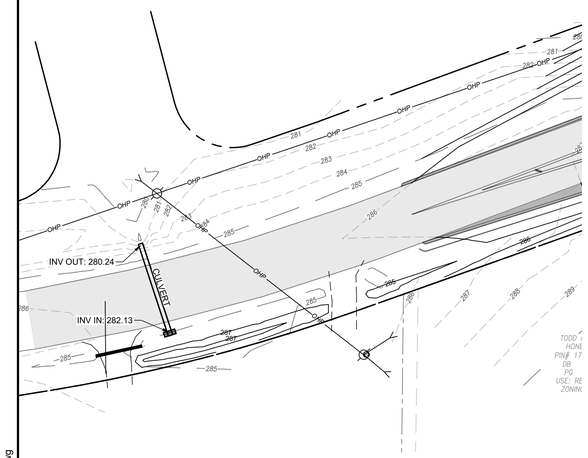
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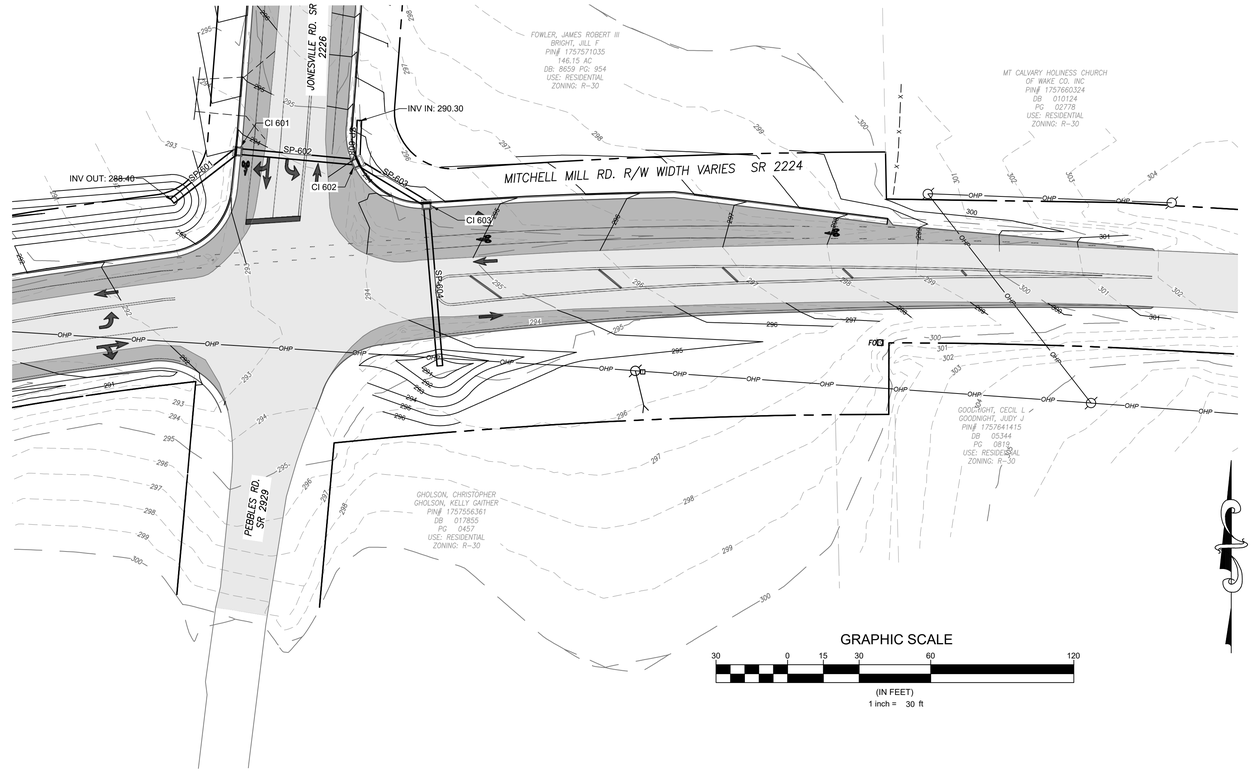
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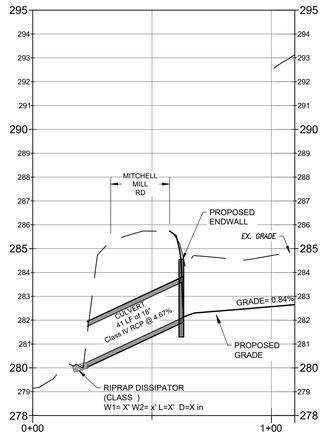
MITCHELL MILL STORM 500 NETWORK

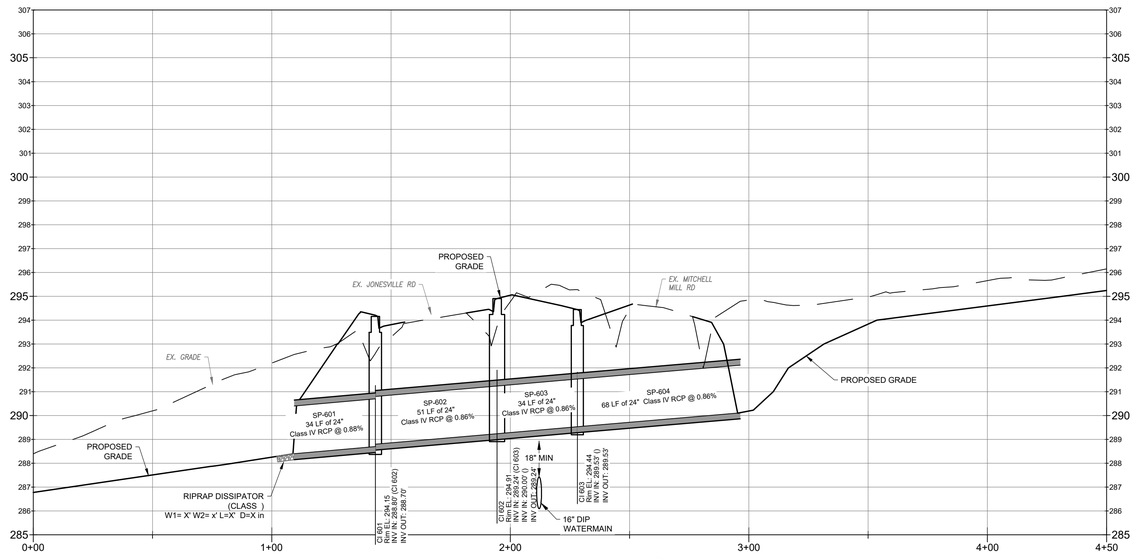
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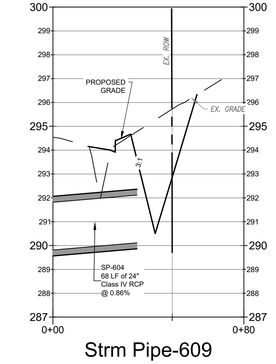
109











VERT 1" = 3'

HORZ 1" = 30'

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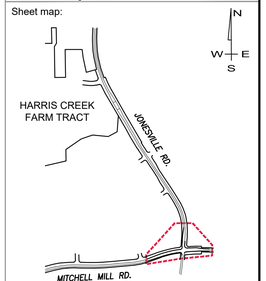
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Bryan Harris

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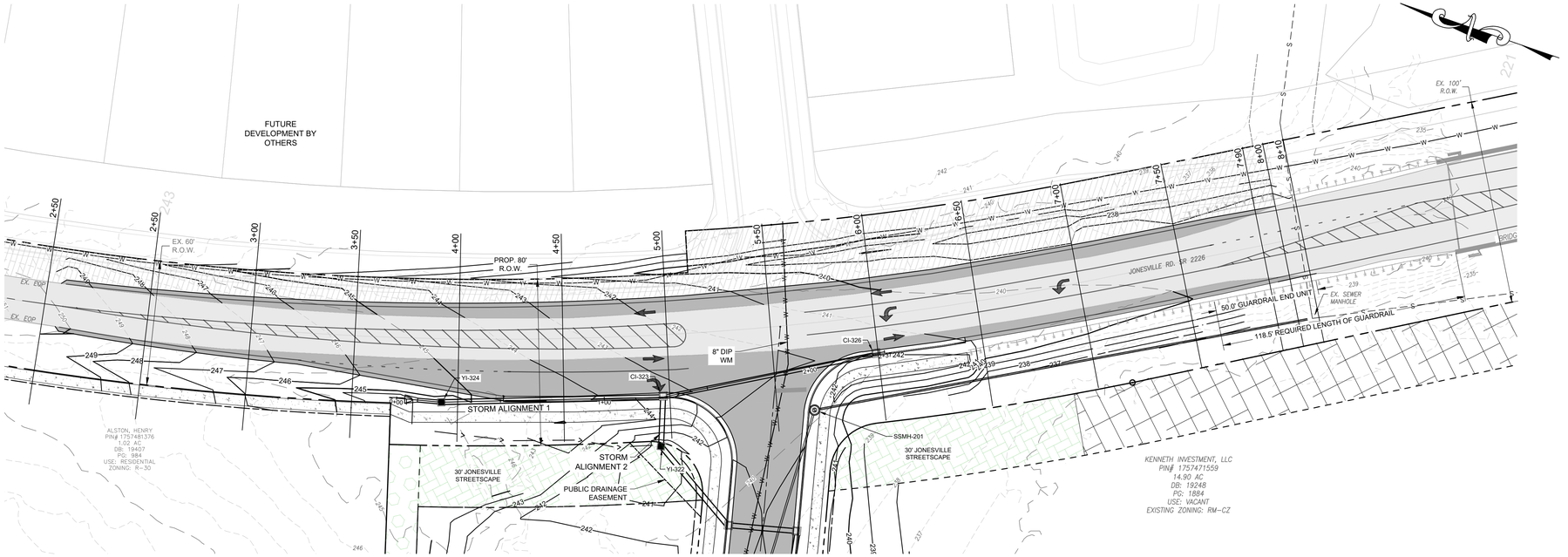
MITCHELL MILL
STORM 600
NETWORK

Sheet #:

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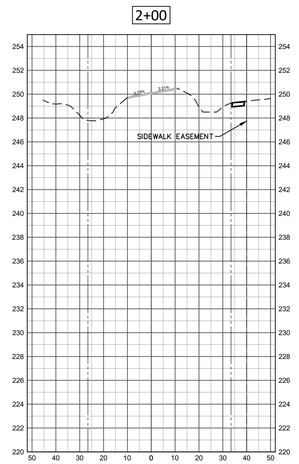
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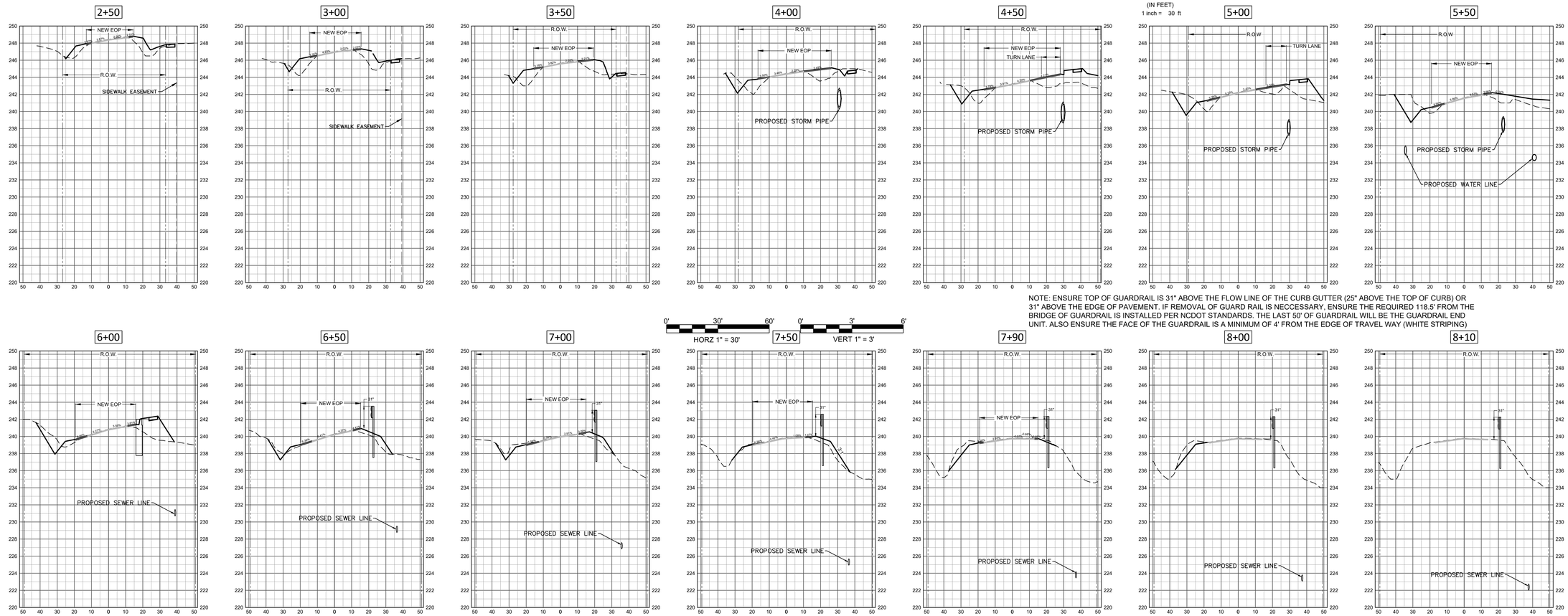
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JONESVILLE ROAD

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft





0' 30' 60' HORZ 1" = 30'
0' 3' 6' VERT 1" = 3'

NOTE: ENSURE TOP OF GUARDRAIL IS 31" ABOVE THE FLOW LINE OF THE CURB GUTTER (25" ABOVE THE TOP OF CURB) OR 31" ABOVE THE EDGE OF PAVEMENT. IF REMOVAL OF GUARD RAIL IS NECCESSARY, ENSURE THE REQUIRED 118.5' FROM THE BRIDGE OF GUARDRAIL IS INSTALLED PER NCDOT STANDARDS. THE LAST 50' OF GUARDRAIL WILL BE THE GUARDRAIL END UNIT. ALSO ENSURE THE FACE OF THE GUARDRAIL IS A MINIMUM OF 4' FROM THE EDGE OF TRAVEL WAY (WHITE STRIPING)

N.C. UNDERGROUND UTILITIES
811 3 DAYS BEFORE DIGGING CALL TOLL FREE 811 or (800)632-4949
A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY

File Location: C:\Users\BryanHarris\Quantech\Quantech Engineering - Documents\Harris Creek Farm - Jonesville\Engineering_DWG\Construction Plans\103 Jonesville Ex Condition Road Widen Striping Paving.dwg

Developer
THE CSC GROUP
CONTRIBUTE TO THE SUCCESS OF LOCAL COMMUNITY
10030 Green Level Church Rd, Suite 802 #149: Cary, NC 27519

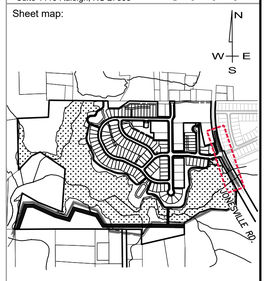
Engineer
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INNOVATIVE SOLUTIONS | ENGINEERING THE FUTURE
Firm # F-1517
275 CARPENTER HILL LANE
Cary, N.C. 27519
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Surveyor
STRONGROCK
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Jurisdiction / Municipality
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Town of Rolesville
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Formally known as CID-25-03

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Sheet map:



Seal:
NORTH CAROLINA PROFESSIONAL SEAL 53676 ENGINEER BRYAN A. HARRIS
Bryan Harris
Digitally signed by Bryan Harris
DN: cn=Bryan Harris, o=Quantech Engineering LLP, ou=Bryan Harris
Date: 2026.11.04 11:58:19-05'00'

Issued / Print Date: 2026-July-27 (11:08)
File Name: 103 Jonesville Ex Condition Road Widen Striping Paving.dwg

Last Saved by: BryanHarris
Drawn by: TAN

Project:
HARRIS CREEK FARMS
CID 25-0004 (FKA - CID-25-03)

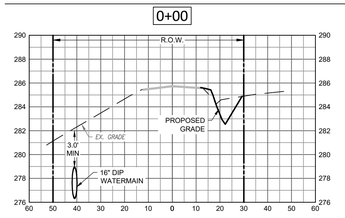
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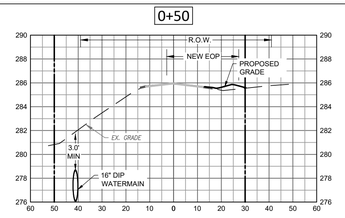
REVISIONS

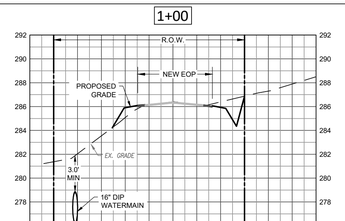
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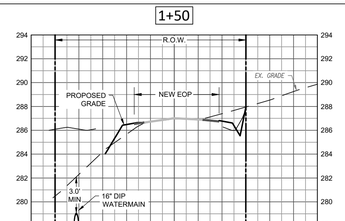
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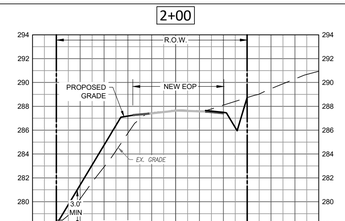
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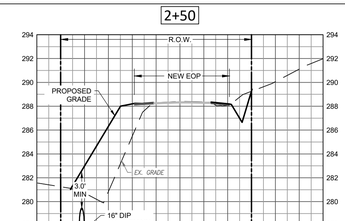


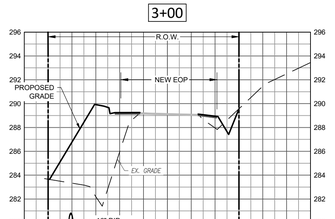


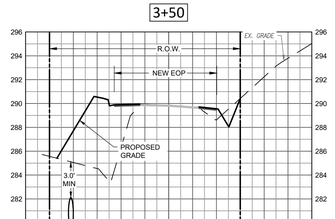


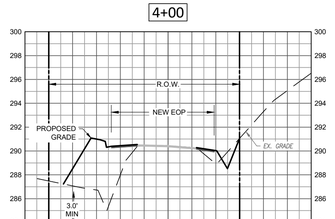


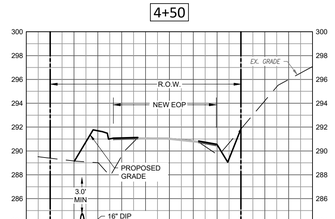


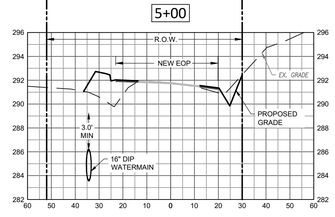


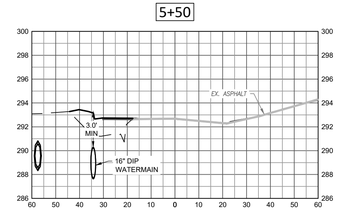


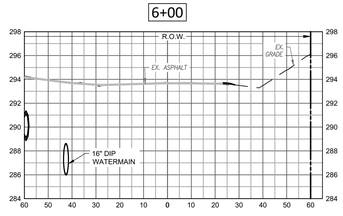


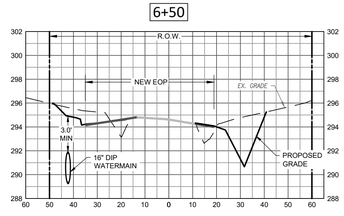


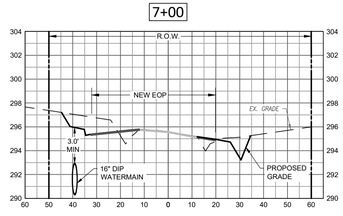


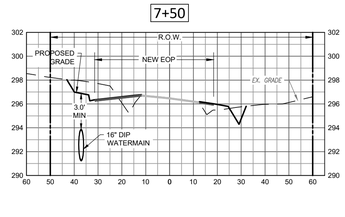


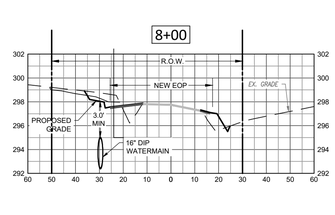


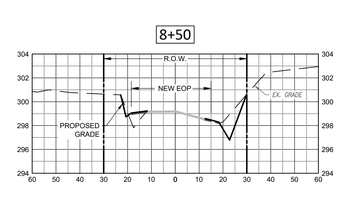


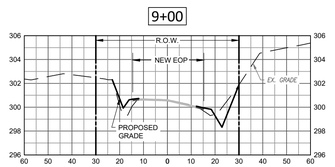


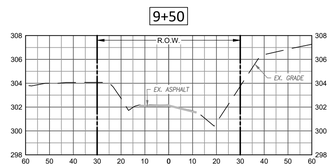


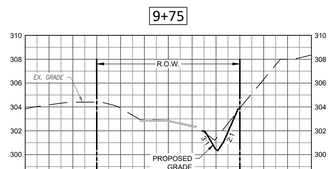


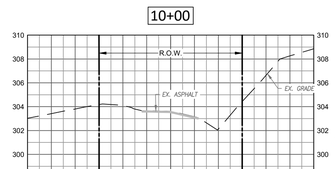












GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)

1 inch = 40 ft

N.C. UNDERGROUND UTILITIES

811 3 DAYS BEFORE DIGGING CALL TOLL FREE 811 or (800)632-4949

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information@strongrockengineering.com

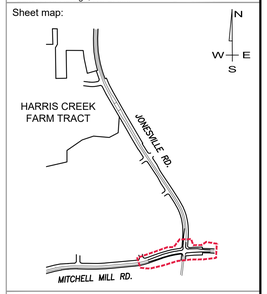
Jurisdiction / Municipality

Rolesville
Genuine Community • Capital Connection
Est. 1837
Town of Rolesville
502 Southtown Cir
Rolesville, NC 27571
Phone: 919-554-6517
CID-25-0004 (PSP-24-05)
Permits Issue on 8-28-2025

Landscape Architect

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305 Church at North Hills Street
Suite 1110 Raleigh, NC 27609
984-200-1932
information@strongrockengineering.com

Sheet map:



Seal:

NORTH CAROLINA PROFESSIONAL SEAL 53676 ENGINEER BRYAN A. HARRIS

Digitally signed by Bryan Harris
DN: CN=BryanHarris, E=bryan@QuantechEng.com, O=Quantech Engineering LLP, C=US
Reason: I am the author of this document
Date: 2026.07.27 11:08:21 -05'00'

Bryan Harris

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Last Saved by: BryanHarris
Drawn by: TAN

Project:

HARRIS CREEK FARMS

CID 25-0004 (FKA - CID-25-03)

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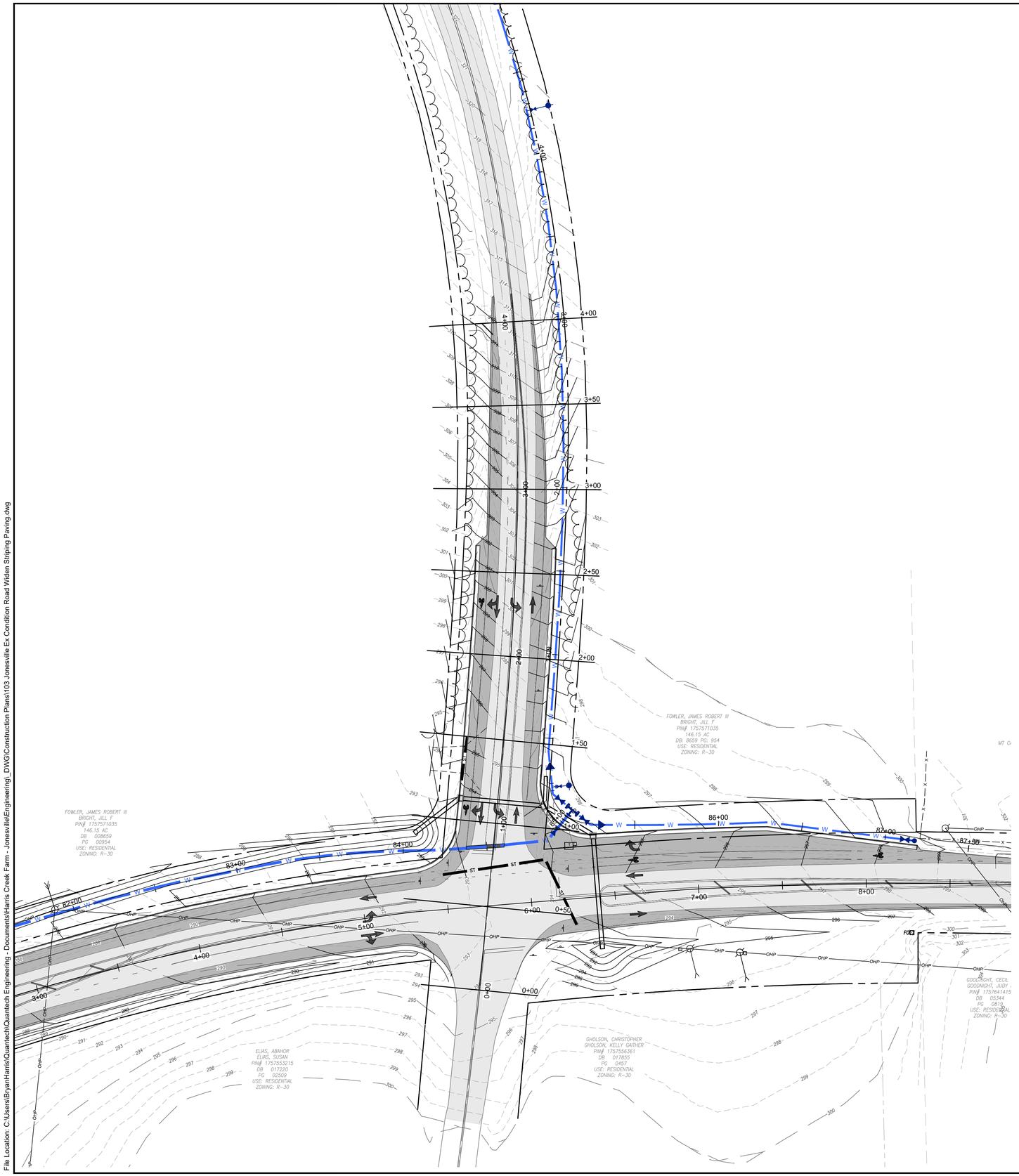
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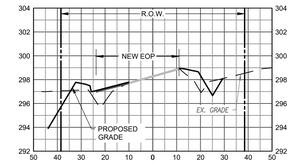
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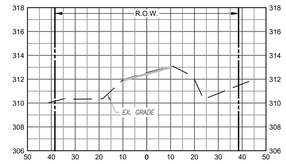
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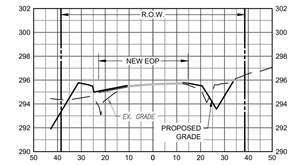
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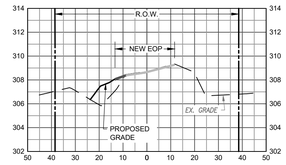
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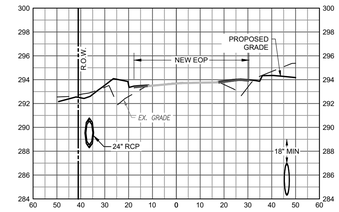
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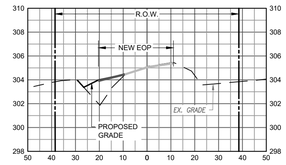
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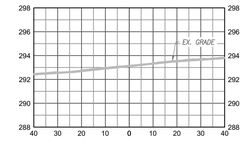
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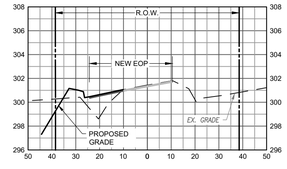
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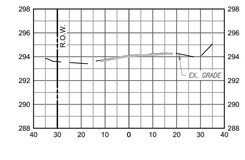
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2+50



0+00



0' 30' 60'
HORZ 1" = 30'

0' 3' 6'
VERT 1" = 6'

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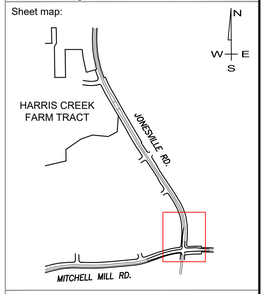
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Sheet map:



Seal:

NORTH CAROLINA
PROFESSIONAL
SEAL
53676
ENGINEER
BRYAN A. HARRIS
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DN: CN=US, E=bryan@QuantechEng.com, O=Quantech Engineering LLP, CN=Bryan Harris
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Bryan Harris

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Drawn by: TAN

Project:

HARRIS CREEK FARMS

CID 25-0004 (FKA - CID-25-03)

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REVISIONS

No.	Date	Description

Sheet Title:

JONESVILLE RD
WIDENING (S)
CROSS SECTIONS

Sheet #:

113

CONTINUOUS LINES

EDGE LINE — YELLOW OR WHITE — 4"/6"

LANE LINE — WHITE — 4"/6"

CENTER LINE — YELLOW — 4"/6"

GORE LINE — WHITE — 8"/12"

DIAGONAL LINE — YELLOW OR WHITE — 12" 45 MPH OR HIGHER / 8" LESS THAN 45 MPH

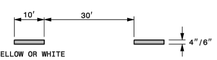
CROSSWALK LINE — WHITE — 8" TRANSVERSE / 24" LONGITUDINAL

RxR LINE — WHITE — 16"

STOP OR TRANSVERSE BAR — WHITE — 24"

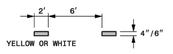
10'-30'/SP SKIP LINE

UNLESS OTHERWISED SHOWN, USE 10'-30'/SP SKIPS FOR SKIP LANE LINES AND SKIP CENTER LINES.



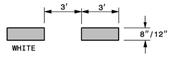
2'-6'/SP MINI-SKIP LINE

UNLESS OTHERWISED SHOWN, USE 2'-6'/SP MINI-SKIPS FOR LANE LINE EXTENSIONS THROUGH INTERSECTIONS, EDGE LINE EXTENSIONS THROUGH INTERSECTIONS AND BICYCLE LANE EXTENSIONS.



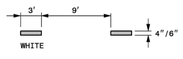
3'-3'/SP MINI-SKIP LINE

UNLESS OTHERWISED SHOWN, USE 3'-3'/SP MINI-SKIPS FOR THE WHITE EDGE LINE EXTENSIONS AT ROUNDABOUTS.



3'-9'/SP MINI-SKIP LINE

UNLESS OTHERWISED SHOWN, USE 3'-9'/SP MINI-SKIPS FOR MINI-SKIP LANE LINES, LINE EXTENSIONS THROUGH TAPERS, AND MINI-SKIPS USED FOR BICYCLE LANE LINES.



GENERAL NOTES:

1- USE 6" LANE, EDGE, AND CENTER LINES ON ALL FULL CONTROL OF ACCESS FACILITIES AND OTHER ROUTES AS DIRECTED BY THE ENGINEER.

2- LANE LINES INDICATED AS "WIDE" ON THE ROADWAY STANDARD DRAWINGS SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.

3- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

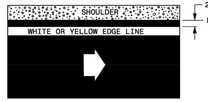
1-24

ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
LINE TYPES AND OFFSETS

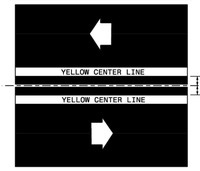
SHEET 1 OF 2

1205.01

EDGE LINE OFFSET DETAIL



CENTER LINE OFFSET DETAIL



LANE LINE OFFSET DETAIL

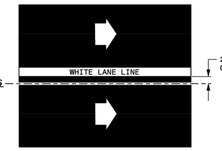


TABLE 1

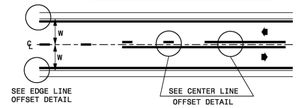
EDGE LINE OFFSETS FOR 2-LANE, 2-WAY ROADWAYS WITH UN-PAVED SHOULDERS

WIDTH (W) OF TRAVEL PAVEMENT	MAX. EDGE LINE OFFSET FROM E.O.T.	MINIMUM LANE WIDTH (W)
16' - 18'	2"	8' - 9'
19'	4"	9'
20'	6"	9.5'
21'	8"	10'
22'	10"	10'
23'	10"	10.5'
24'	1'	11'
26'	2'	11'
28'	2'	12'
30'	3'	12'
32'	4'	12'

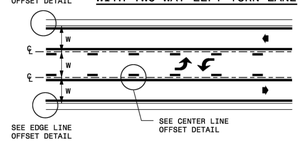
LEGEND

W = WIDTH OF TRAVEL LANE
E.O.T.= EDGE OF TRAVEL
DIRECTION OF TRAFFIC FLOW

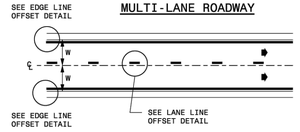
TWO-WAY UNDIVIDED ROADWAY



TWO-WAY UNDIVIDED ROADWAY WITH TWO-WAY LEFT TURN LANE



MULTI-LANE ROADWAY



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ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
LINE TYPES AND OFFSETS

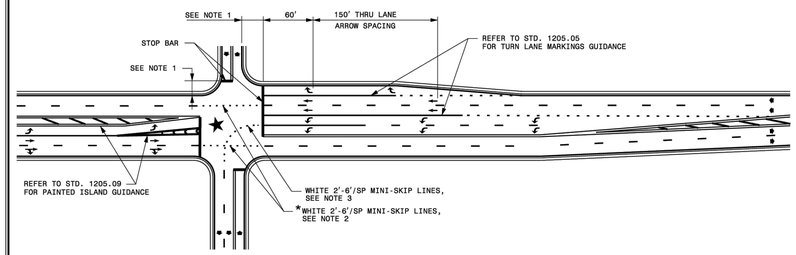
SHEET 2 OF 2

1205.01

NOTE:

DO NOT COMPLETELY BLOCK ACCESS TO THE LOT WHEN WORKING NEAR OR ON A DRIVEWAY. ENSURE ACCESS CAN BE MAINTAINED FOR THE HOME OWNERS. WHEN INSTALLING WATERLINE, IT WOULD BE BEST TO BORE AND JACK UNDER THE DRIVEWAY BUT OTHER OPTIONS CAN BE USED AS LONG AS IT DOES NOT BLOCK TRAFFIC TO THE OWNERS LOT. IF CUTTING A DRIVEWAY IS DESIRED, ENSURE DRIVEWAY IS BACK TO ITS ORIGINAL CONDITION OR BETTER AND IF THE DRIVEWAY IS TO HAVE CONCRETE, ENSURE CURE TIME DOES NOT IMPACT ACCESS TO THE LOT.

SIGNALIZED MULTI-LANE ROADWAY WITH TURN BAYS



GENERAL NOTES:

1- REFER TO THE PAVEMENT MARKING PLAN FOR STOP BAR LOCATIONS FOR SIGNALIZED INTERSECTIONS. IF A PAVEMENT MARKING PLAN IS NOT PROVIDED, CONTACT THE SIGNAL DESIGN SECTION FOR THE STOP BAR LOCATIONS OR AS DIRECTED BY THE ENGINEER.

2- MINI-SKIP LANE LINE EXTENSIONS SHOULD BE USED AT INTERSECTIONS THAT HAVE REDUCED VISIBILITY CONDITIONS SUCH AS OFFSET, SKEWED, OR CURVED ROADWAYS.

3- MINI-SKIP LANE LINE EXTENSIONS SHALL BE USED WHERE MULTIPLE TURN LANES ARE USED.

4- REFER TO ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.05, 1205.08 AND 1205.09 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND

DIRECTION OF TRAFFIC FLOW
PAVEMENT MARKING SYMBOLS
* OPTIONAL

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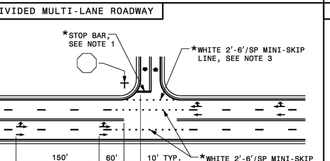
1-24

ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
INTERSECTIONS

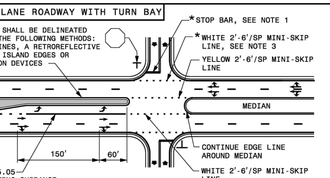
SHEET 1 OF 2

1205.04

TWO-LANE, TWO-WAY ROADWAY



TWO-LANE, TWO-WAY ROADWAY WITH TWO-WAY LEFT TURN LANE

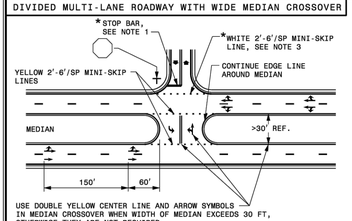


UNDIVIDED MULTI-LANE ROADWAY

DIVIDED MULTI-LANE ROADWAY WITH TURN BAY

MONOLITHIC ISLANDS SHALL BE DELINEATED BY ONE OR MORE OF THE FOLLOWING METHODS: MARKED WITH EDGE LINES, A RETROREFLECTIVE COATING APPLIED TO ISLAND EDGES OR APPROVED DELINEATION DEVICES

DIVIDED MULTI-LANE ROADWAY WITH WIDE MEDIAN CROSSOVER



USE DOUBLE YELLOW CENTER LINE AND ARROW SYMBOLS IN MEDIAN CROSSOVER WHEN WIDTH OF MEDIAN EXCEEDS 30 FT, OTHERWISE THEY ARE NOT REQUIRED.

GENERAL NOTES:

1- PLACEMENT OF STOP BARS AT NON-SIGNALIZED INTERSECTIONS IS OPTIONAL AND USED WHERE IT IS IMPORTANT TO INDICATE THE POINT WHICH VEHICLES ARE REQUIRED TO STOP. PLACE STOP BARS NO LESS THAN 4 FEET AND NO MORE THAN 30 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY. USE 10 FEET AS THE TYPICAL SETBACK DISTANCE OR AS DIRECTED BY THE ENGINEER.

2- MINI-SKIP LANE LINE EXTENSIONS SHOULD BE USED AT INTERSECTIONS THAT HAVE REDUCED VISIBILITY CONDITIONS SUCH AS OFFSET, SKEWED, OR CURVED ROADWAYS.

3- MINI-SKIP EDGE LINE EXTENSIONS MAY BE PLACED THROUGH INTERSECTIONS AND MAJOR DRIVEWAYS.

4- REFER TO ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.05, 1205.08 AND 1205.09 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND

STOP SIGN
STATIONARY SIGN
DIRECTION OF TRAFFIC FLOW
PAVEMENT MARKING SYMBOLS
* OPTIONAL

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ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
INTERSECTIONS

SHEET 2 OF 2

1205.04

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CID-25-0004 (PSP-24-05)
Formerly known as CID-25-03

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Sheet map:

N
W E
S

Seal:

NORTH CAROLINA PROFESSIONAL SEAL 53676 ENGINEER BRYAN A. HARRIS

Bryan Harris

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Date: 2026.11.04 11:58:24-05'00'

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HARRIS CREEK FARMS

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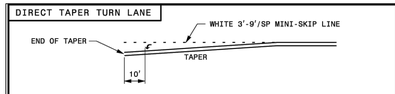
ROAD WIDENING & STRIPING DETAILS

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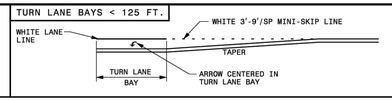
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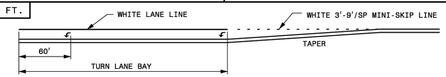
DIRECT TAPER TURN LANE



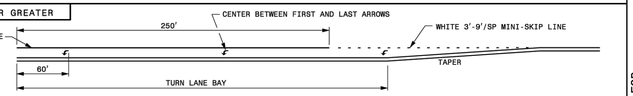
TURN LANE BAYS < 125 FT.



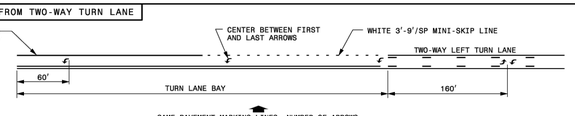
TURN LANE BAYS 125 - 250 FT.



TURN LANE BAYS 250 FT. OR GREATER

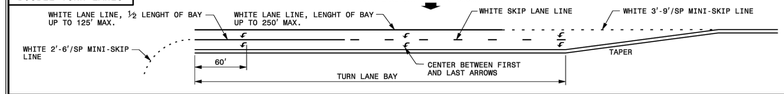


LEFT TURN LANE DEVELOPED FROM TWO-WAY TURN LANE



SAME PAVEMENT MARKING LINES, NUMBER OF ARROWS, AND ARROW SPACING APPLY AS FOR THE VARIOUS TURN LANE BAY LENGTHS SHOWN ABOVE

DOUBLE TURN LANES



GENERAL NOTES:

1- USE THE GUIDANCE SHOWN ABOVE IN CONJUNCTION WITH THE INTERSECTION GUIDANCE SHOWN ON ROADWAY STANDARD DRAWING 1205.04.

2- THE NUMBER OF ARROWS SHOWN IS THE MINIMUM REQUIRED. USE ADDITIONAL ARROWS AS DIRECTED BY THE ENGINEER.

LEGEND

PAVEMENT MARKING SYMBOL

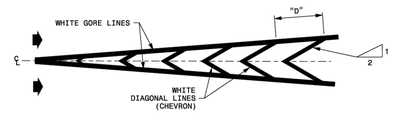
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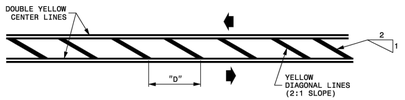
ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
TURN LANES

SHEET 1 OF 1
1205.05

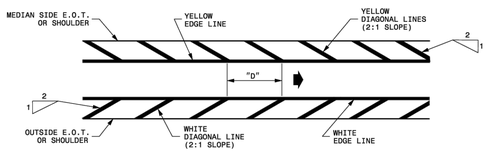
CHANNELIZING ISLAND SEPARATING TRAFFIC IN SAME DIRECTION



MEDIAN ISLAND SEPARATING TRAFFIC IN OPPOSING DIRECTIONS



EDGE OF PAVEMENT OR SHOULDER ISLAND



GENERAL NOTES:

1- "D" = SPACING OF DIAGONAL LINES (TYPICALLY EQUAL IN FEET TO THE POSTED SPEED LIMIT).

2- INCREASE SPACING OF DIAGONALS TO 200' OR MORE ON INTERSTATE ROADWAYS.

3- ADJUST SPACING OF DIAGONALS DEPENDING ON THE LENGTH OF THE ISLAND. SPACING MAY BE ADJUSTED AS DETERMINED BY THE ENGINEER.

LEGEND

E.O.T.= EDGE OF TRAVEL
DIRECTION OF TRAFFIC FLOW

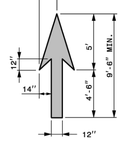
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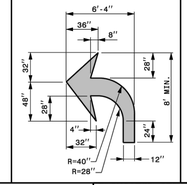
ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
PAINTED ISLANDS

SHEET 1 OF 1
1205.09

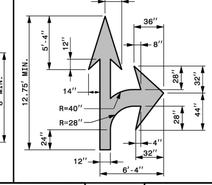
STRAIGHT ARROW



RIGHT OR LEFT TURN ARROW



COMBINATION STRAIGHT AND LEFT OR RIGHT TURN ARROW

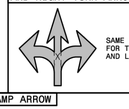


COMBINATION LEFT AND RIGHT TURN ARROW



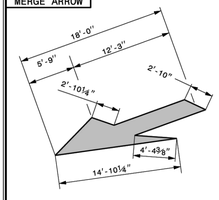
SAME DIMENSIONS APPLY AS FOR THE LEFT/RIGHT TURN ARROW

COMBINATION LEFT AND STRAIGHT AND RIGHT TURN ARROW

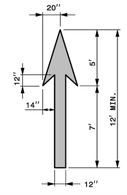


SAME DIMENSIONS APPLY AS FOR THE COMBINATION STRAIGHT AND LEFT/RIGHT TURN ARROW

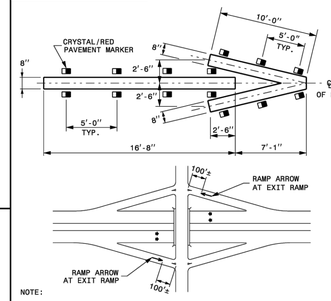
MERGE ARROW



ELONGATED STRAIGHT ARROW



WRONG-WAY RAMP ARROW



GENERAL NOTES:

1- USE THE COLOR WHITE FOR ALL PAVEMENT MARKING SYMBOLS.

2- DO NOT LOCATE PAVEMENT MARKING SYMBOLS AS TO ENCROACH INTO INTERSECTION AREAS.

3- DO NOT PLACE SYMBOLS ACROSS TRANSVERSE EXPANSION JOINTS ON PORTLAND CEMENT CONCRETE PAVEMENTS, UNLESS APPROVED BY THE ENGINEER.

4- CONFORM ALL SYMBOLS TO THE FHWA "STANDARD HIGHWAY SIGNS" MANUAL WHICH INCLUDES PAVEMENT MARKINGS AND STANDARD ALPHABETS (REFER TO SHEETS 6 THRU 9). DIMENSIONS CAN VARY AMONG MANUFACTURERS, THEREFORE SLIGHT VARIANCES ARE ACCEPTABLE. HOWEVER, ALL SYMBOLS ARE REQUIRED TO BE APPROVED BY THE DEPARTMENT.

NOTE:

1- WHEN INSTALLING COLD APPLIED PLASTIC ON CONCRETE, IT IS RECOMMENDED TO USE COLD APPLIED PLASTIC WITH A BLACK CONTRASTING BOLDER.

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ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
SYMBOLS AND WORD MESSAGES

SHEET 1 OF 9
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Sheet map:



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ROAD WIDENING & STRIPING DETAILS

Sheet #:

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GENERAL NOTES:

1- MARKERS ARE GENERALLY NOT REQUIRED ALONG EDGE LINES EXCEPT IF DESIGNATED IN THE PLANS OR DIRECTED BY THE ENGINEER. WHEN THEY ARE REQUIRED, SPACE THEM ON 20 FT. CENTERS, AND OFFSET 2 INCHES FROM THE EDGE LINE ON THE TRAFFIC SIDE.

2- PLACE CRYSTAL/RED MARKERS AT INTERSECTIONS AND INTERCHANGES WHERE WRONG-WAY MOVEMENTS ARE POSSIBLE. POSITION THE RED SIDE OF THE MARKER TO FACE "WRONG-WAY" TRAFFIC. WHEN USED, PLACE CRYSTAL/RED MARKERS ALONG THE ENTIRE LENGTH OF THE PROJECT.

3- DO NOT PLACE PAVEMENT MARKERS CLOSER THAN 3 INCHES TO A PAVEMENT CONSTRUCTION JOINT (AS FEASIBLE), EXCEPT WHEN PLACED BETWEEN DOUBLE YELLOW CENTER LINES, AND ALONG YELLOW SKIP LINES ON TWO-LANE, TWO-WAY ROADWAYS WHERE PASSING IS ALLOWED IN BOTH DIRECTIONS.

4- DO NOT PLACE PAVEMENT MARKERS DIRECTLY ON PAVEMENT MARKING LINES.

5- PLACE PAVEMENT MARKERS USED IN CONJUNCTION WITH DOUBLE YELLOW CENTER LINES MID-WAY BETWEEN THE LINES. PROVIDE A GAP BETWEEN THE LINES AND THE MARKER TO REDUCE OVERSPRAYING THE MARKER DURING REPAINTING OPERATIONS.

6- MARKERS ARE NOT REQUIRED ALONG MINI-SKIP LINES IN TAPERS.

PAVEMENT MARKER SPACING CHART

TYPE OF PAVEMENT MARKING	TYPICAL SPACING (FT)
SKIP LINES AND CENTER LINES ALONG THRU LANES-	
ALONG TANGENT SECTIONS AND HORIZONTAL CURVES LESS THAN 6°	80
HORIZONTAL CURVES ≥ 6°	40
TURN LANES-	
MINI-SKIP LINES	24
SKIP LINES	40
SOLID LINES	20
CENTER LINES	40
MINI-SKIP LINES AT LANE DROP APPROACHES	24
TWO-WAY RAMP CENTER LINES	40
GORE LINES	20
PAINTED ISLANDS-	
WHITE	20
YELLOW	40
RAISED MEDIAN ISLANDS	40
WRONG WAY RAMP ARROW	5
TAPERS	40
NARROW BRIDGES-	
EDGE LINE	20
CENTER LINE	40
ONE LANE BRIDGES-	
EDGE LINE	20
WORK ZONE APPLICATIONS	
2-LANE, 2-WAY ON-SITE DIVERSION	20 FT. FOR CENTER LINE
ALL OTHER DIVERSIONS	½ NORMAL SPACING

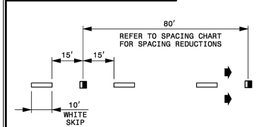
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RALEIGH, N.C.

1-24

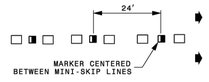
ROADWAY STANDARD DRAWING FOR
RAISED PAVEMENT MARKERS
INSTALLATION SPACING

SHEET 1 OF 3
1250.01

10'-30'/SP SKIP LINE



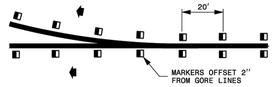
3'-9'/SP MINI-SKIP LINE



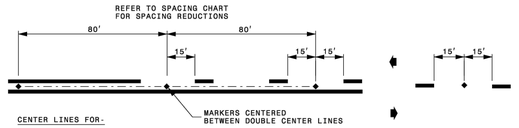
LEGEND

- CRYSTAL/RED PAVEMENT MARKER
- YELLOW/YELLOW PAVEMENT MARKER
- DIRECTION OF TRAFFIC FLOW

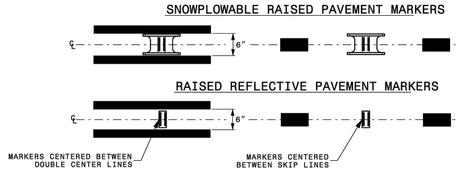
GORE LINES



YELLOW CENTER LINES



DETAIL OF PAVEMENT MARKER PLACEMENT



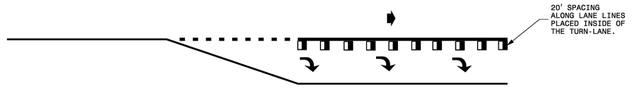
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ROADWAY STANDARD DRAWING FOR
RAISED PAVEMENT MARKERS
INSTALLATION SPACING

SHEET 2 OF 3
1250.01

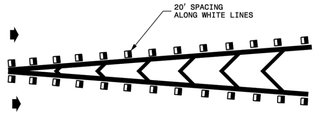
AUXILIARY TURN LANES



YELLOW PAINTED ISLANDS



WHITE PAINTED ISLANDS



LEGEND

- DIRECTION OF TRAFFIC FLOW
- CRYSTAL/RED PAVEMENT MARKER
- YELLOW/YELLOW PAVEMENT MARKER
- PAVEMENT MARKING SYMBOL

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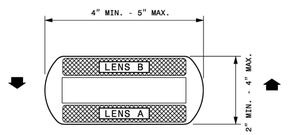
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ROADWAY STANDARD DRAWING FOR
RAISED PAVEMENT MARKERS
INSTALLATION SPACING

SHEET 3 OF 3
1250.01

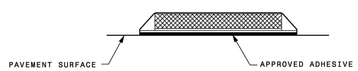
TYPICAL PAVEMENT MARKER

TOP VIEW

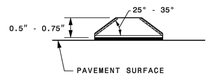


LENS A	LENS B
YELLOW	YELLOW
CRYSTAL	RED
CRYSTAL	CRYSTAL

FRONT VIEW



SIDE VIEW



GENERAL NOTES:

1- USE A MINIMUM OF 2 SQUARE INCHES FOR THE AREA OF EACH REFLECTIVE LENS.

2- FOR A COMPLETE LISTING OF PAVEMENT MARKERS AND ADHESIVES ACCEPTABLE FOR USE IN NORTH CAROLINA CONTACT THE NCDOT SIGNING AND DELINEATION UNIT.

LEGEND

- DIRECTION OF TRAFFIC FLOW

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ROADWAY STANDARD DRAWING FOR
RAISED PAVEMENT MARKERS
PERMANENT AND TEMPORARY

SHEET 1 OF 1
1251.01

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Sheet map:



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Sheet Title:

ROAD WIDENING & STRIPING DETAILS

Sheet #:

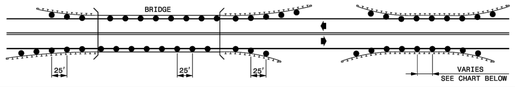
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UNDIVIDED ROADWAYS, TWO-LANE AND MULTI-LANE

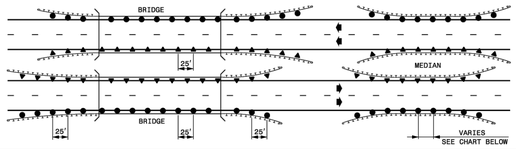
GUARDRAIL/BARRIER AT BRIDGES



GUARDRAIL/BARRIER ALONG ROADWAY

DIVIDED ROADWAYS

GUARDRAIL/BARRIER AT BRIDGES



GUARDRAIL/BARRIER ALONG ROADWAY

GENERAL NOTES:

1- INSTALL DELINEATORS AT ALL LOCATIONS OF PERMANENT AND TEMPORARY GUARDRAILS, CONCRETE BARRIERS, AND BRIDGE RAILS.

2- INSTALL DELINEATORS PRIOR TO ALLOWING TRAFFIC TO PROCEED IN AN AREA WITH NEW BARRIER OR GUARDRAIL INSTALLATIONS (TEMPORARY AND PROPOSED).

3- CONFORM COLOR OF DELINEATORS TO THE COLOR OF THE ADJACENT EDGE LINES.

4- POSITION DELINEATORS SUCH THAT THE REFLECTIVE SHEETING IS PERPENDICULAR TO THE ROADWAY.

5- BEGIN DELINEATOR PLACEMENT 5 FEET FROM BARRIER APPROACH ENDS AND 25 FEET FROM GUARDRAIL APPROACH ENDS.

6- BARRIER DELINEATORS THAT FALL ON JOINTS OR MOVE CONNECTIONS (UP TO 12 INCHES), ON EITHER SIDE OF THE JOINT.

7- POSITION THE GUARDRAIL AND/OR BARRIER DELINEATORS TO ACHIEVE A UNIFORM HEIGHT WITH THE BARRIER DELINEATORS WHERE GUARDRAIL TIES TO CONCRETE BARRIER.

DELINEATOR SPACING REQUIREMENTS FOR PERMANENT AND CONSTRUCTION ZONE GUARDRAIL,BARRIER,AND BRIDGERAIL

SPACING (FT.)	RAIL LOCATIONS
100'	ROADWAY CURVATURE < 3° RAIL PARALLEL TO ROADWAY
50'	ROADWAY CURVATURE ≥ 3° RAIL PARALLEL TO ROADWAY
25'	TRANSITIONS,TAPERS,& SECTIONS LESS THAN 200' LONG
25'	BRIDGE RAILS AND RAILS AT BRIDGE APPROACHES

LEGEND

- DIRECTION OF TRAFFIC FLOW
- GUARDRAIL OR BARRIER
- YELLOW DELINEATOR
- CRYSTAL DELINEATOR

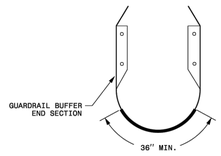
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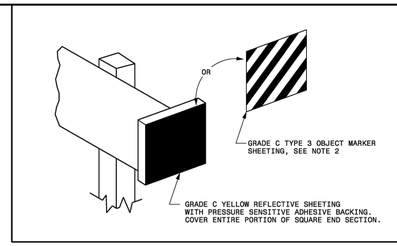
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ROADWAY STANDARD DRAWING FOR
GUARDRAIL AND BARRIER DELINEATORS
INSTALLATION SPACING

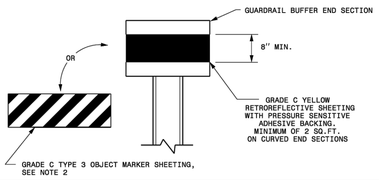
SHEET 1 OF 1
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TOP VIEW

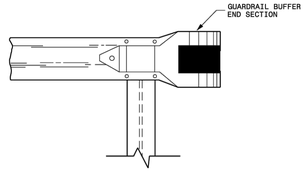




FRONT VIEW



SIDE VIEW



GENERAL NOTES:

1- GUARDRAIL END DELINEATION IS REQUIRED ON ALL APPROACH AND TRAILING.

2- TYPE 3 OBJECT MARKER SHEETING SHALL CONSIST OF ALTERNATING BLACK AND RETROREFLECTIVE YELLOW STRIPES SLOPING DOWN AT 45 DEGREES TOWARDS THE SIDE OF THE OBSTRUCTION ON WHICH TRAFFIC IS TO PASS.

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ROADWAY STANDARD DRAWING FOR
GUARDRAIL END DELINEATION

SHEET 1 OF 1
1262.01

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Sheet map:



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Bryan Harris

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E=bryan@QuantechEng.com,
O=Quantech Engineering LLP,
OU=Bryan Harris
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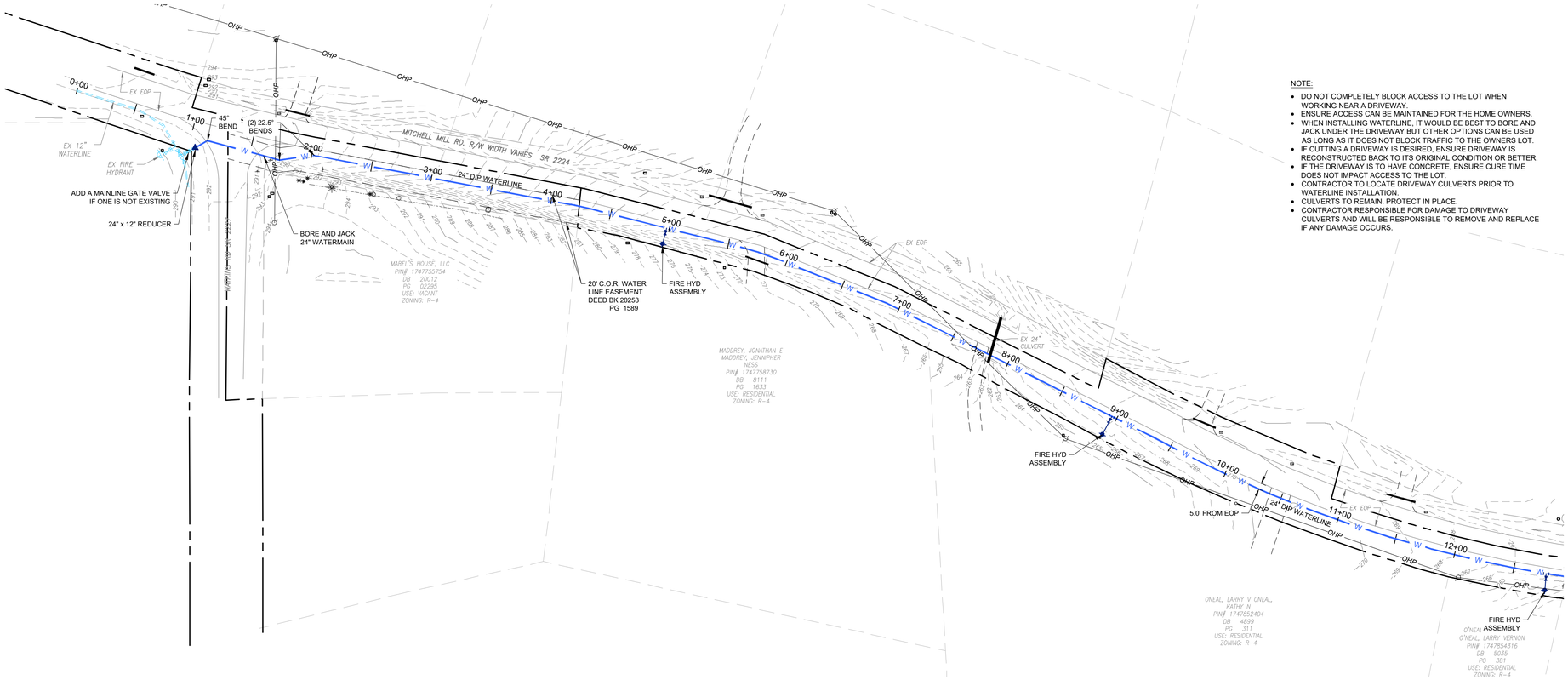
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NOTE:

- DO NOT COMPLETELY BLOCK ACCESS TO THE LOT WHEN WORKING NEAR A DRIVEWAY.
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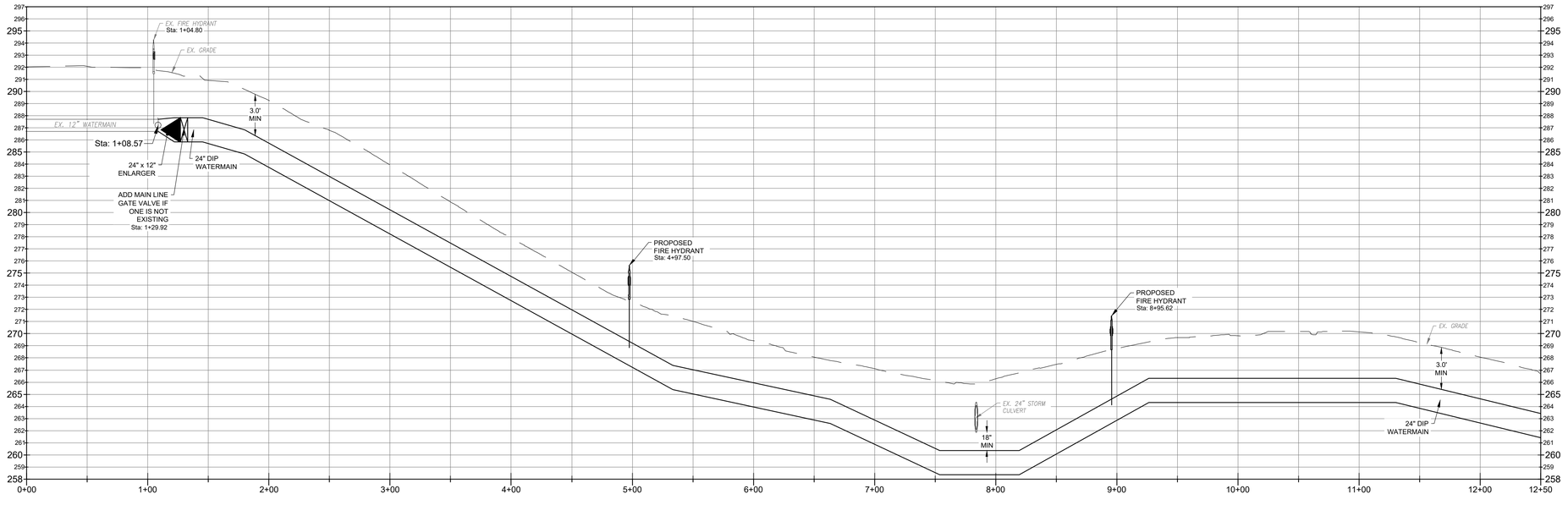


GRAPHIC SCALE

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(IN FEET)

1 inch = 50 ft



0' 50' 100'

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0' 5' 10'

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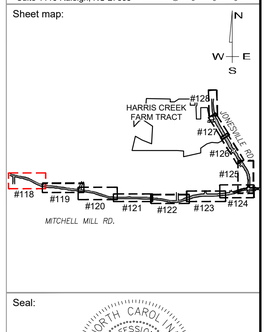
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Bryan Harris

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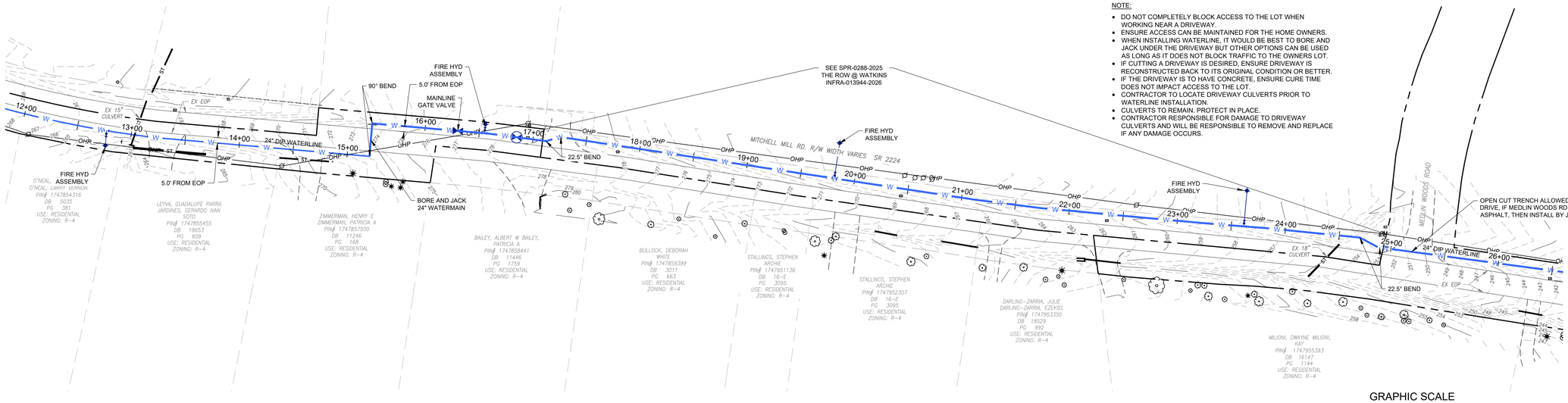
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Sheet Title:

MITCHELL WATERLINE 0+00 TO 12+50

Sheet #:

118



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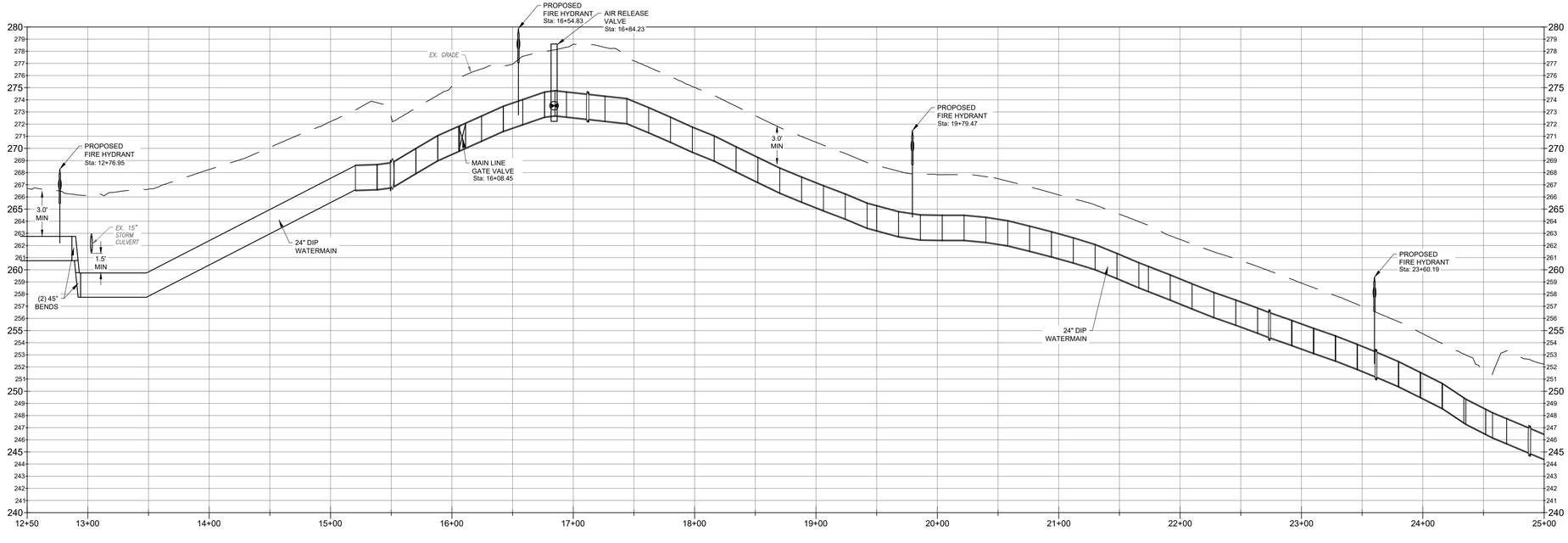
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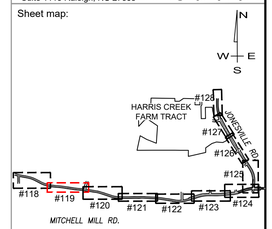
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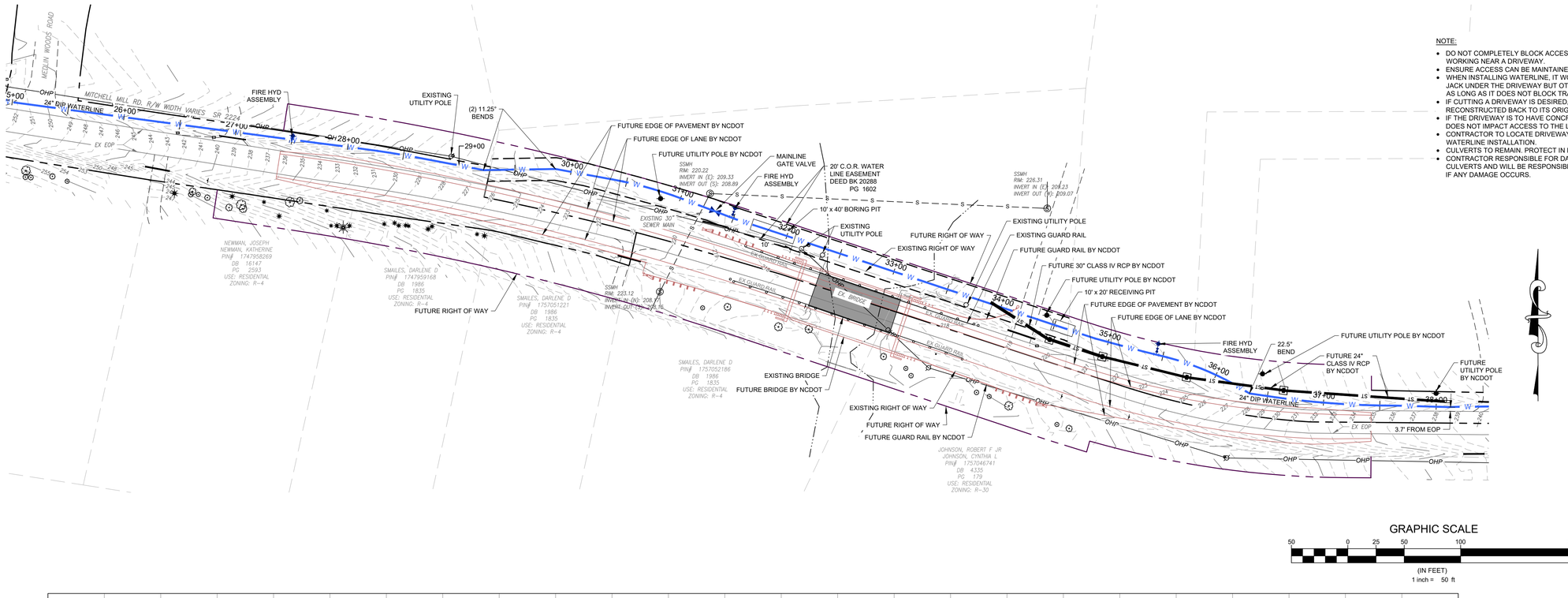
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MITCHELL WATERLINE 12+50 TO 25+00

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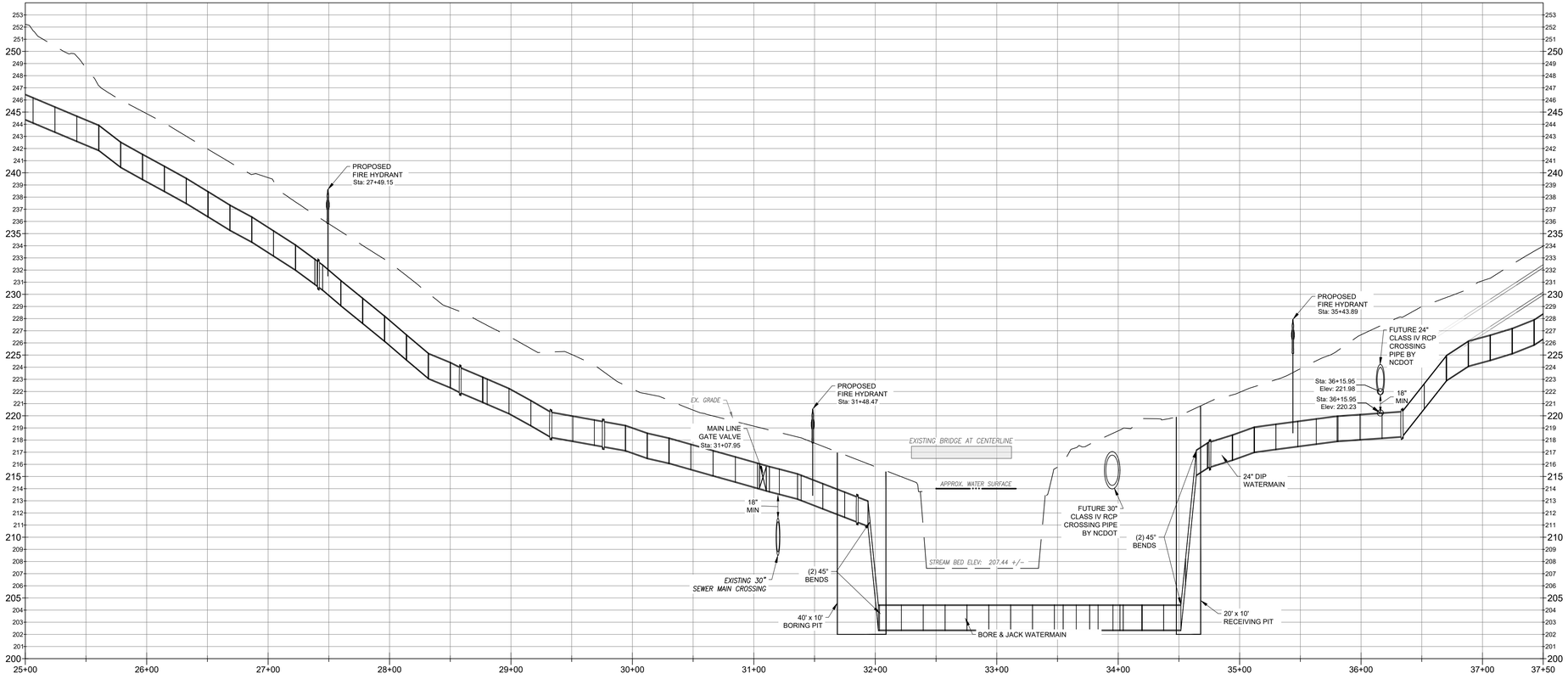


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Cary, N.C. 27519
(919) 996-9455

Surveyor

STRONGROCK
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305 Church at North Hills Street 984-200-1932
Suite 1110 Raleigh, NC 27609 information@strongrockengineering.com

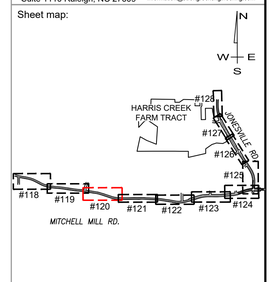
Jurisdiction / Municipality

Rolesville
Genuine Community • Capital Connection
Est. 1837
Town of Rolesville
502 Southtown Cir
Rolesville, NC 27571
Phone: 919-554-6517
CID-25-0004 (PSP-24-05)
Formally known as SUB-0138

Landscape Architect

STRONGROCK
THE STRONGROCK COMPANIES
305 Church at North Hills Street 984-200-1932
Suite 1110 Raleigh, NC 27609 information@strongrockengineering.com

Sheet map:



Seal:

NORTH CAROLINA PROFESSIONAL SEAL 53676 ENGINEER BRYAN A. HARRIS

Bryan Harris

Digitally signed by Bryan Harris
DN: cn=Bryan Harris, o=Quantech Engineering LLP, ou=Bryan Harris, email=BryanH@QuantechEng.com, c=US
Date: 2026.11.04 11:58:30-05'00'

Issued / Print Date: 2026-August-28 (11:29)
File Name: 103 Jonesville Ex Condition Road Widen Striping Paving.dwg

Last Saved by: BryanHarris
Drawn by: TAN

Project:

HARRIS CREEK FARMS

CID 25-0004 (FKA - CID-25-03)

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No.	Date	Description

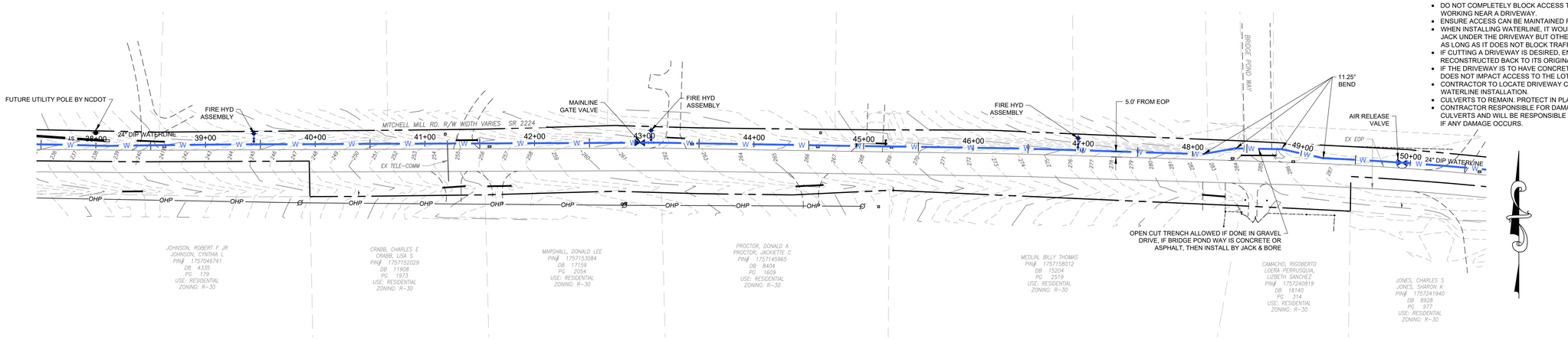
Sheet Title:

MITCHELL WATERLINE 25+00 TO 37+50

Sheet #:

120

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NOTE:

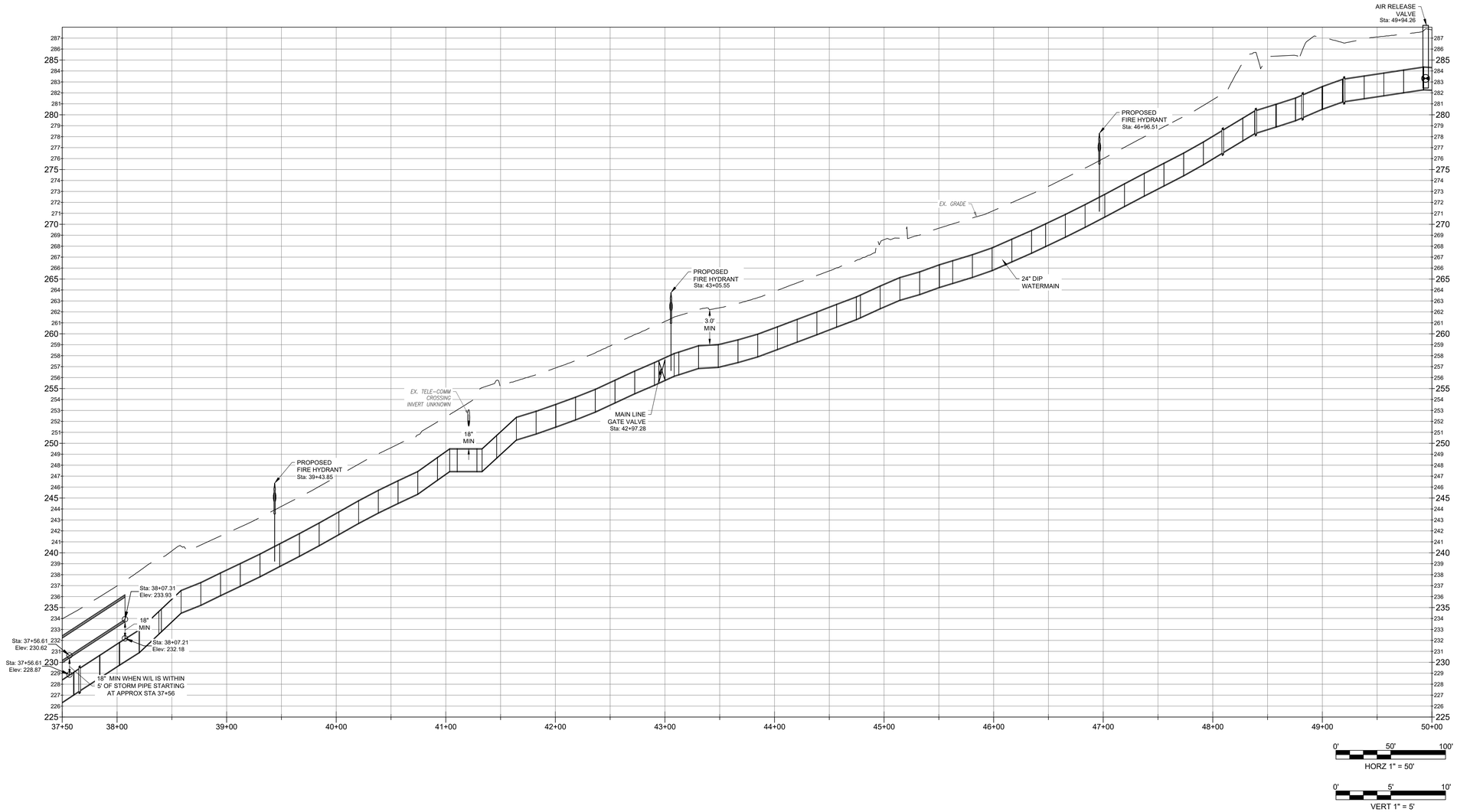
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GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft



0' 50' 100'

HORZ 1" = 50'

0' 5' 10'

VERT 1" = 5'

N.C. UNDERGROUND UTILITIES

811 3 DAYS BEFORE DIGGING CALL TOLL FREE 811 or (800)632-4949

A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY

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Engineer

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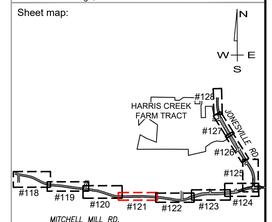
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information@strongrockengineering.com

Sheet map:



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NORTH CAROLINA PROFESSIONAL SEAL 53676 ENGINEER BRYAN A. HARRIS

Digitally signed by Bryan Harris
DN: CN=B, OU=E, EMail=Bryan@QuantechEng.com, O=Quantech Engineering LLP, C=US
Date: 2026.11.04 11:58:31-05'00'

Bryan Harris

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Project:

HARRIS CREEK FARMS

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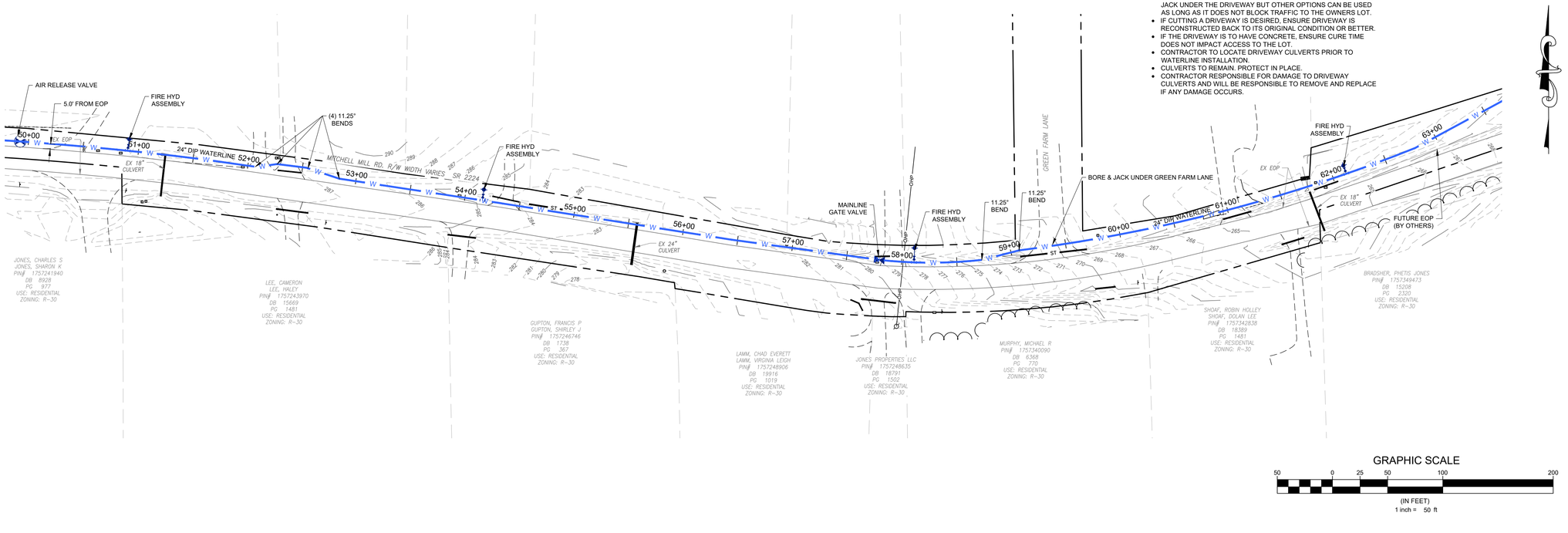
No.	Date	Description

Sheet Title:

MITCHELL WATERLINE 37+50 TO 50+00

Sheet #:

121



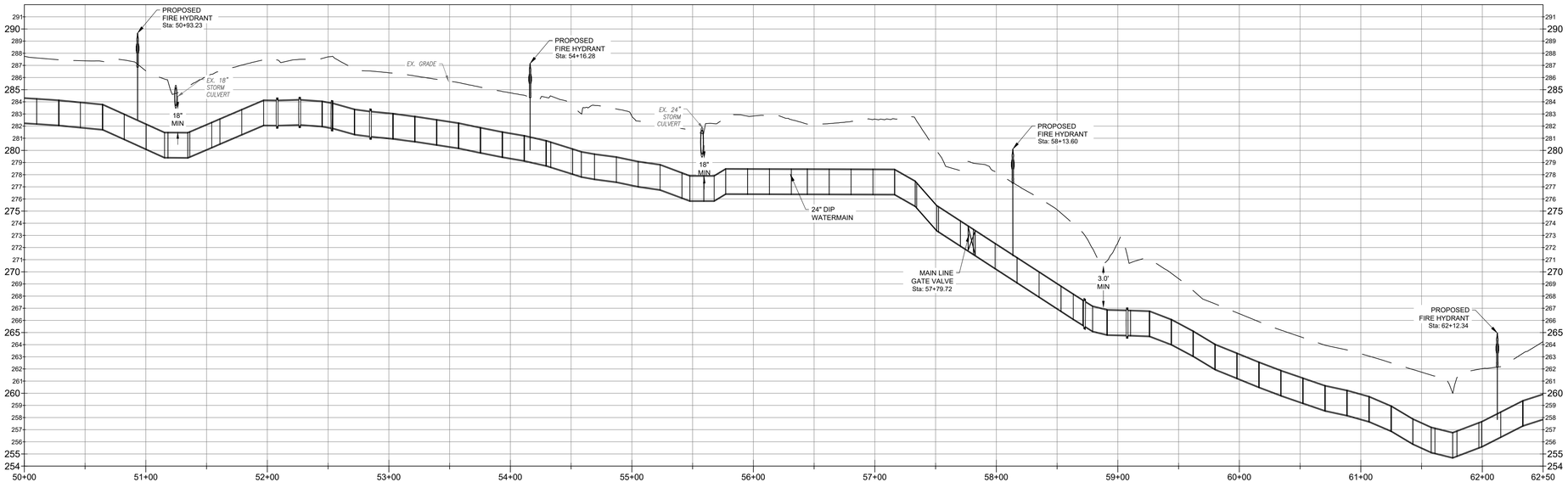
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GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft



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HORZ 1" = 50'

0' 5' 10'
VERT 1" = 5'

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10030 Green Level Church Rd, Suite 802 #149: Cary, NC 27519

Engineer

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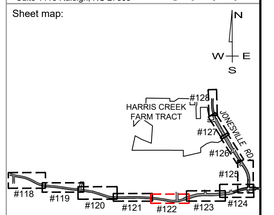
Jurisdiction / Municipality

Rolesville
Genuine Community • Capital Connection
Est. 1837
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502 Southtown Cir
Rolesville, NC 27571
Phone: 919-554-6517
CID-25-0004 (PSP-24-05)
Formerly known as CID-25-03

Landscape Architect

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Suite 1110 Raleigh, NC 27609 information@strongrockengineering.com

Sheet map:



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Bryan Harris

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OU=Bryan Harris
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Drawn by: TAN

Project:

HARRIS CREEK FARMS

CID 25-0004 (FKA - CID-25-03)

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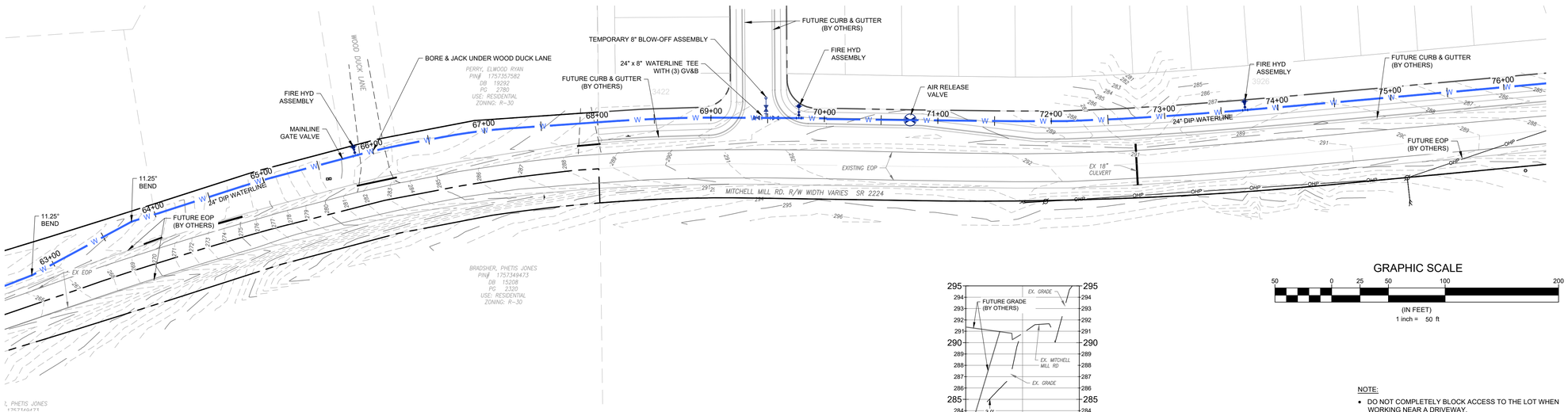
No.	Date	Description

Sheet Title:

MITCHELL WATERLINE 50+00 TO 62+50

Sheet #:

122



TYPICAL CROSS SECTION

0' 50' 100'
HORZ 1" = 50'

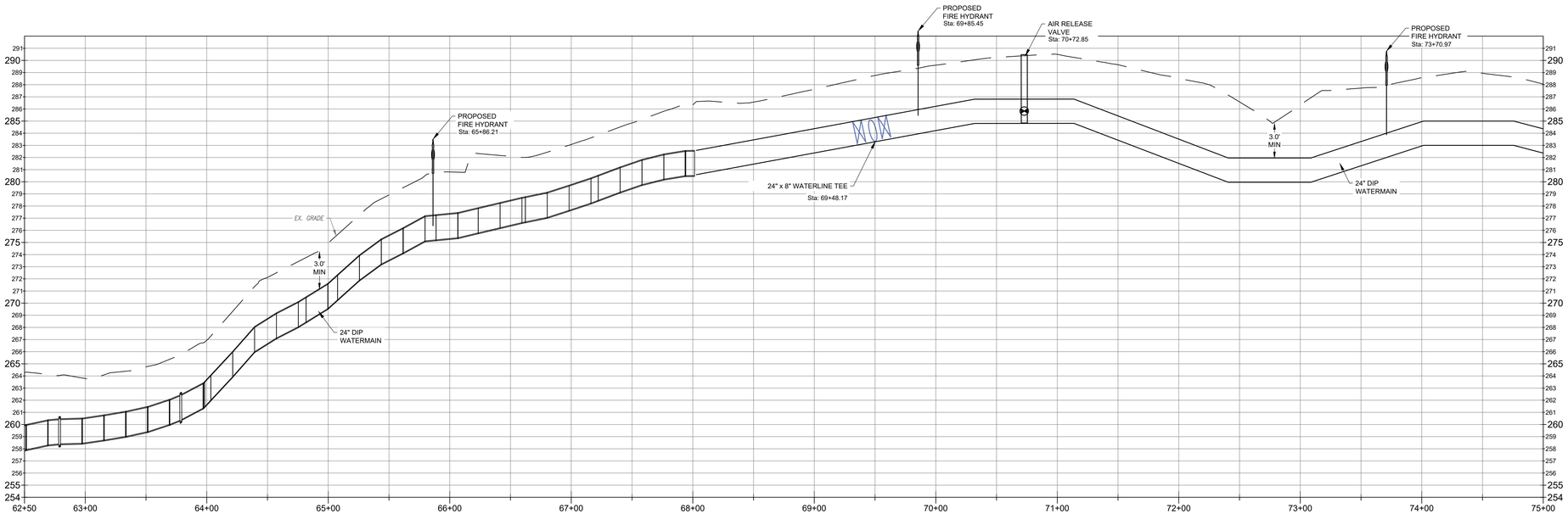
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GRAPHIC SCALE

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HORZ 1" = 50'

0' 5' 10'
VERT 1" = 5'

Public

WATER DISTRIBUTION / EXTENSION SYSTEM

The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities DepartmentPermit # _____

Public

SEWER COLLECTION / EXTENSION SYSTEM

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities DepartmentPermit # _____

N.C. UNDERGROUND UTILITIES
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3 DAYS BEFORE DIGGING CALL
TOLL FREE 811 or (800)632-4949
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Engineer

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(919) 996-9455

Surveyor

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305 Church at North Hills Street 984-200-1932
Suite 1110 Raleigh, NC 27609 information@strongrockengineering.com

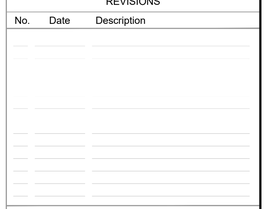
Jurisdiction / Municipality

Rolesville
Genuine Community • Capital Connection
Est. 1837
Town of Rolesville
502 Southtown Cir
Rolesville, NC 27571
Phone: 919-554-6517
CID-25-0004 (PSP-24-05)

Landscape Architect

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305 Church at North Hills Street 984-200-1932
Suite 1110 Raleigh, NC 27609 information@strongrockengineering.com

Sheet map:



Seal:

NORTH CAROLINA PROFESSIONAL SEAL 53676 ENGINEER BRYAN A. HARRIS

Bryan Harris
Digitally signed by Bryan Harris
DN: cn=Bryan Harris, o=Quantech Engineering LLP, ou=Bryan Harris
Date: 2026.11.04 11:58:33-05'00'

Issued / Print Date: 2026-August-28 (11:32)
File Name: 103 Jonesville Ex Condition Road Widen Striping Paving.dwg

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Drawn by: TAN

Project:

HARRIS CREEK FARMS

CID 25-0004 (FKA - CID-25-03)

Issued for:

FINAL DRAWING
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REVISIONS

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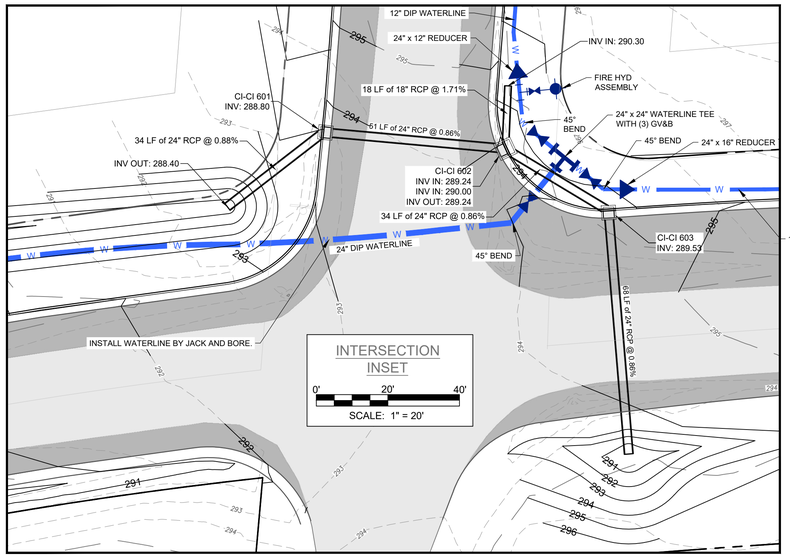
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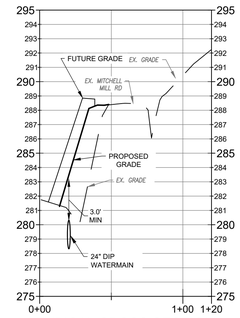
MITCHELL WATERLINE 62+50 TO 75+00

Sheet #:

123

File Location: C:\Users\BryanHarris\Quantech\Quantech Engineering - Documents\Harris Creek Farm - Jonesville\Engineering_DWG\Construction Plans\103 Jonesville Ex Condition Road Widen Striping Paving.dwg





TYPICAL CROSS SECTION

0' 50' 100'
HORZ 1" = 50'

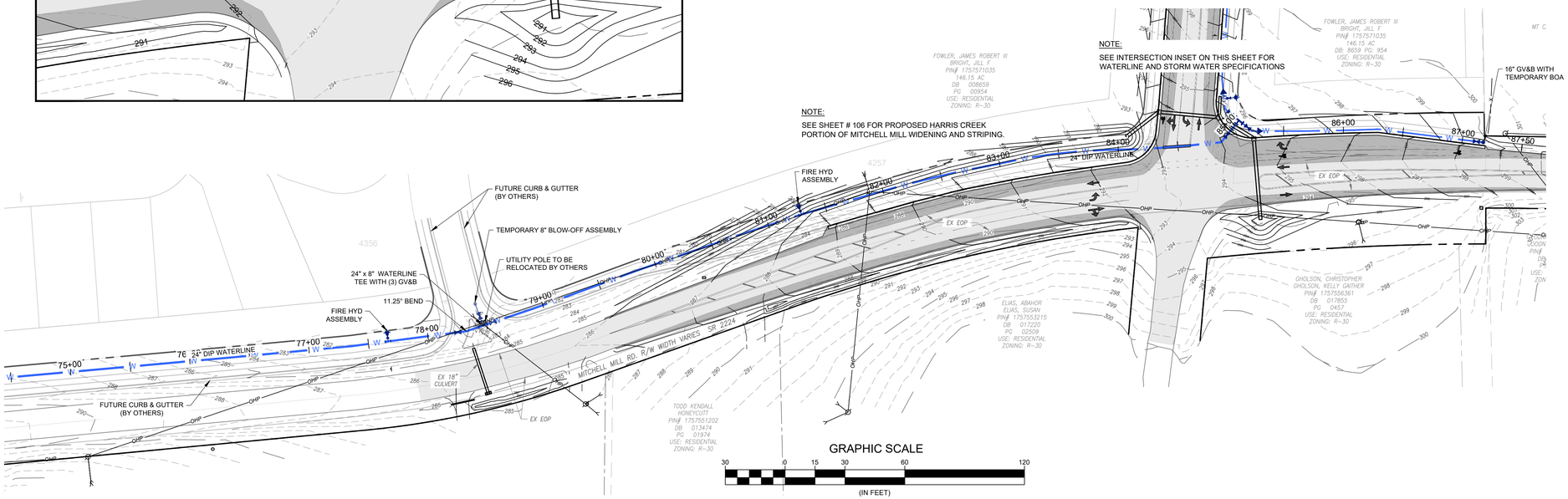
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NOTE:

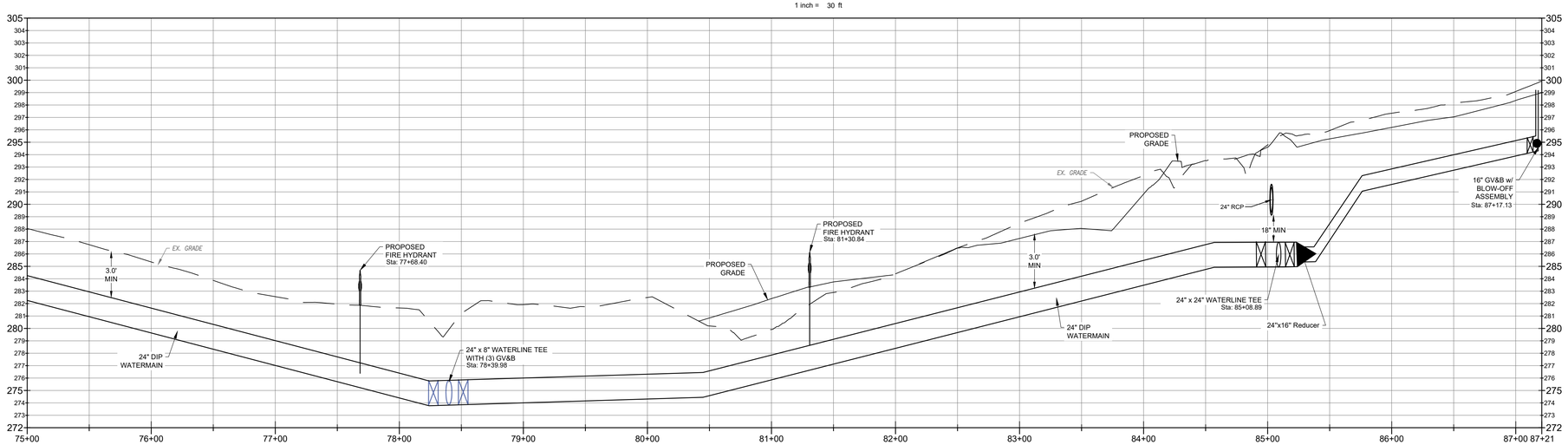
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NOTE:
SEE SHEET # 106 FOR PROPOSED HARRIS CREEK PORTION OF MITCHELL MILL WIDENING AND STRIPING.

NOTE:
SEE INTERSECTION INSET ON THIS SHEET FOR WATERLINE AND STORM WATER SPECIFICATIONS



GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft



0' 50' 100'
HORZ 1" = 50'

0' 5' 10'
VERT 1" = 5'

N.C. UNDERGROUND UTILITIES
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Developer
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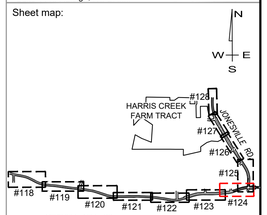
Engineer
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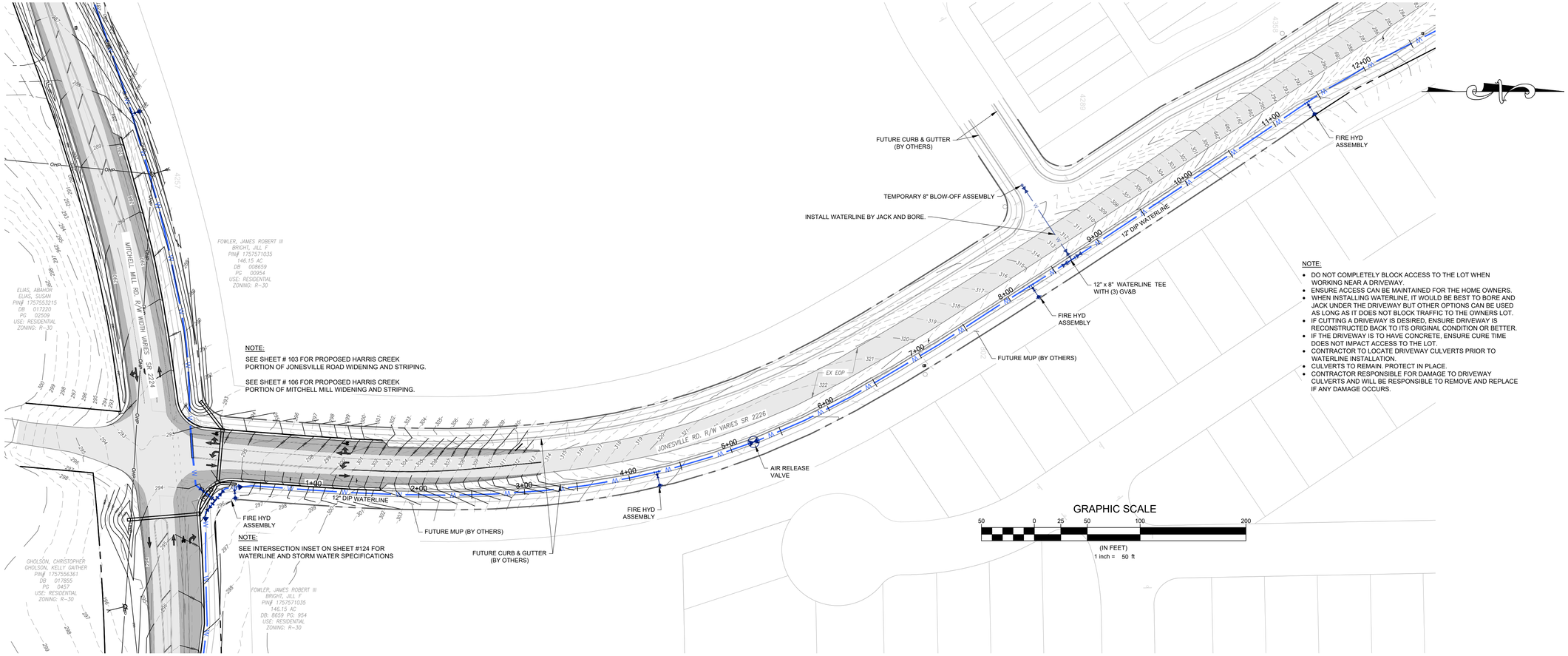
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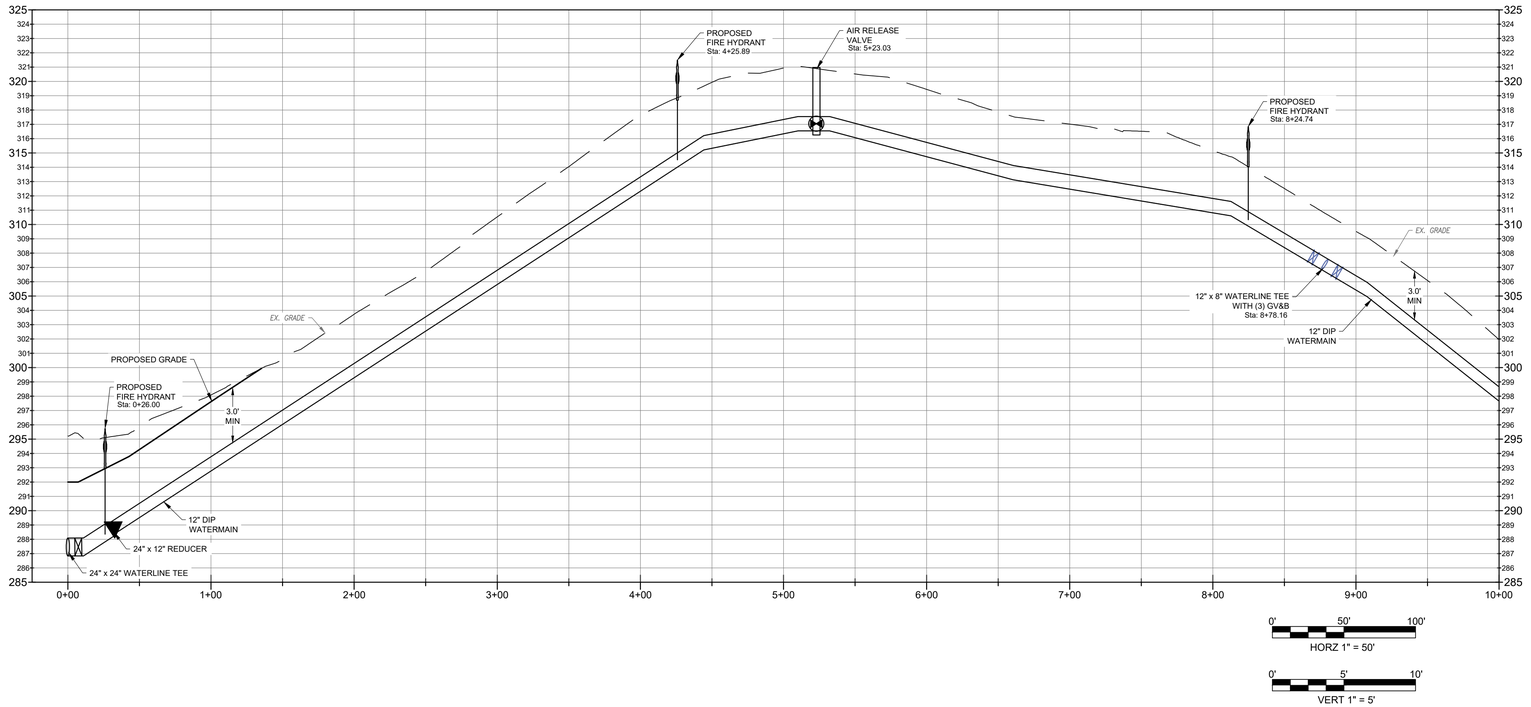
REVISIONS

No.	Date	Description

Sheet Title:
MITCHELL WATERLINE 75+00 TO 84+00

Sheet #:
124





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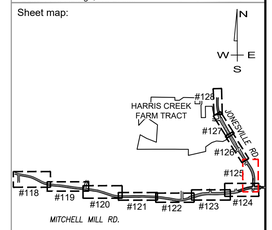
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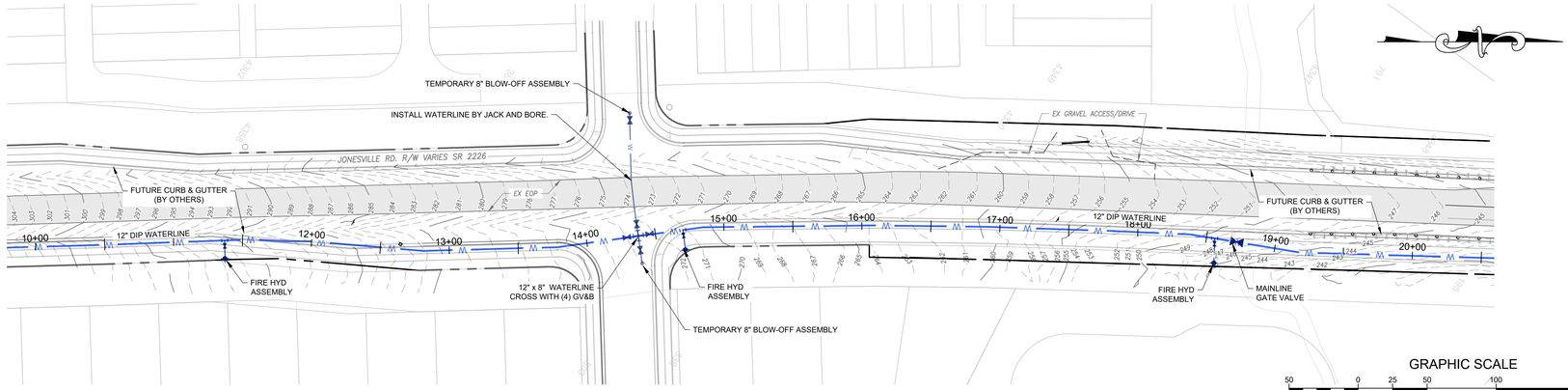
REVISIONS

No.	Date	Description

Sheet Title:
JONESVILLE RD WATERLINE 0+00 TO 10+00

Sheet #:
125

File Location: C:\Users\BryanHarris\Quantech\Quantech Engineering - Documents\Harris Creek Farm - Jonesville\Engineering_DWG\Construction Plans\103 Jonesville Ex Condition Road Widen Striping Paving.dwg



GRAPHIC SCALE

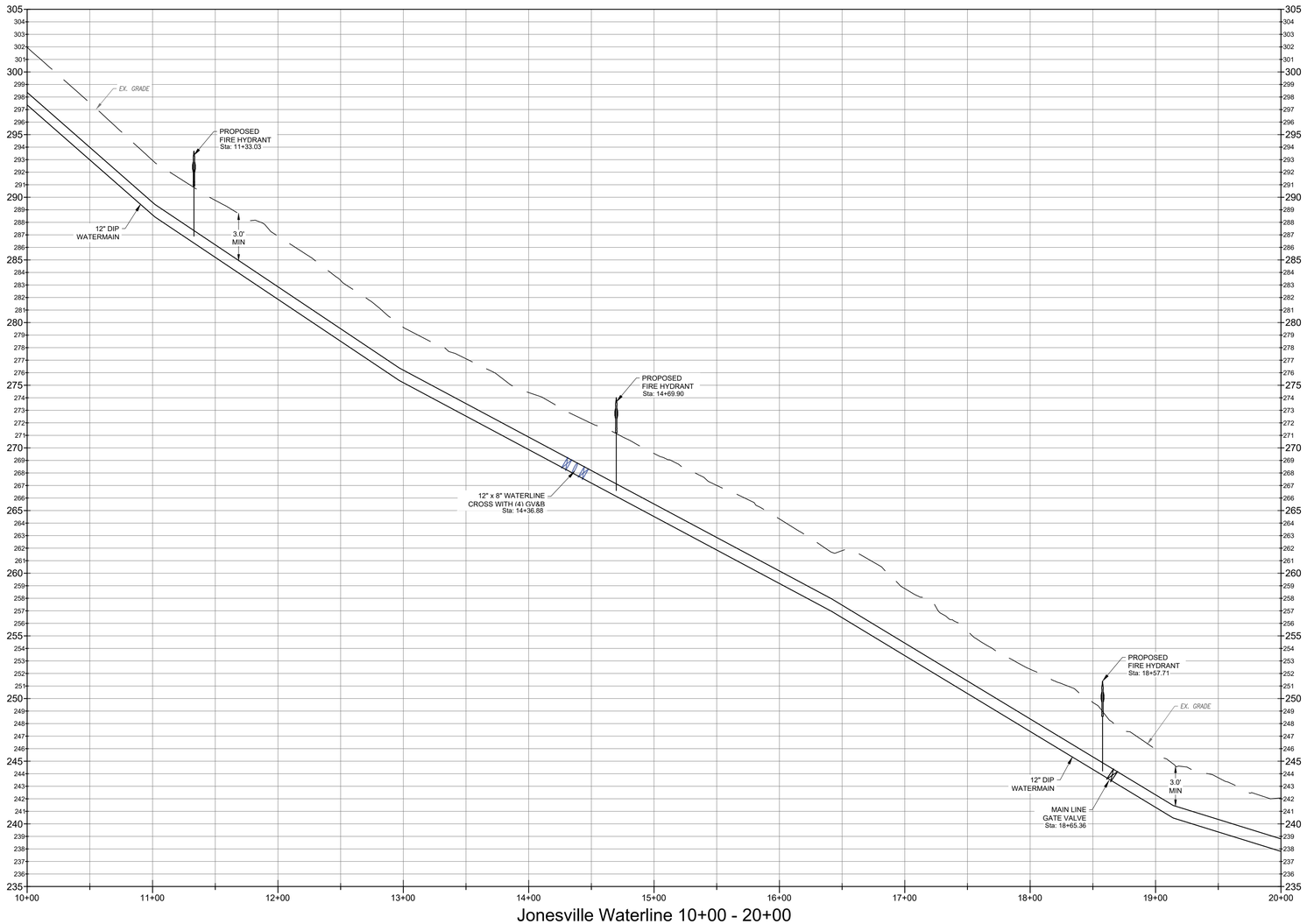
50 0 25 50 100 200

(IN FEET)

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Jonesville Waterline 10+00 - 20+00

HORZ 1" = 50'

VERT 1" = 5'

N.C. UNDERGROUND UTILITIES

811 3 DAYS BEFORE DIGGING CALL TOLL FREE 811 or (800)632-4949

A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY

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Developer

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Rolesville
Genuine Community • Capital Connection
Est. 1837

Town of Rolesville
502 Southtown Cir
Rolesville, NC 27571
Phone: 919-554-6517

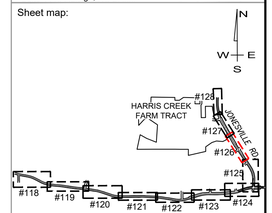
CID-25-0004 (PSP-24-05)

Landscape Architect

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Sheet map:



Seal:

NORTH CAROLINA PROFESSIONAL SEAL 53676 ENGINEER BRYAN A. HARRIS

Bryan Harris

Digitally signed by Bryan Harris
DN: cn=Bryan Harris, o=Quantech Engineering LLP, ou=Bryan Harris
Date: 2026.11.04 11:58:37-05'00'

Issued / Print Date: 2026-August-28 (11:35)
File Name: 103 Jonesville Ex Condition Road Widen Striping Paving.dwg

Last Saved by: BryanHarris
Drawn by: TAN

Project:

HARRIS CREEK FARMS

CID 25-0004 (FKA - CID-25-03)

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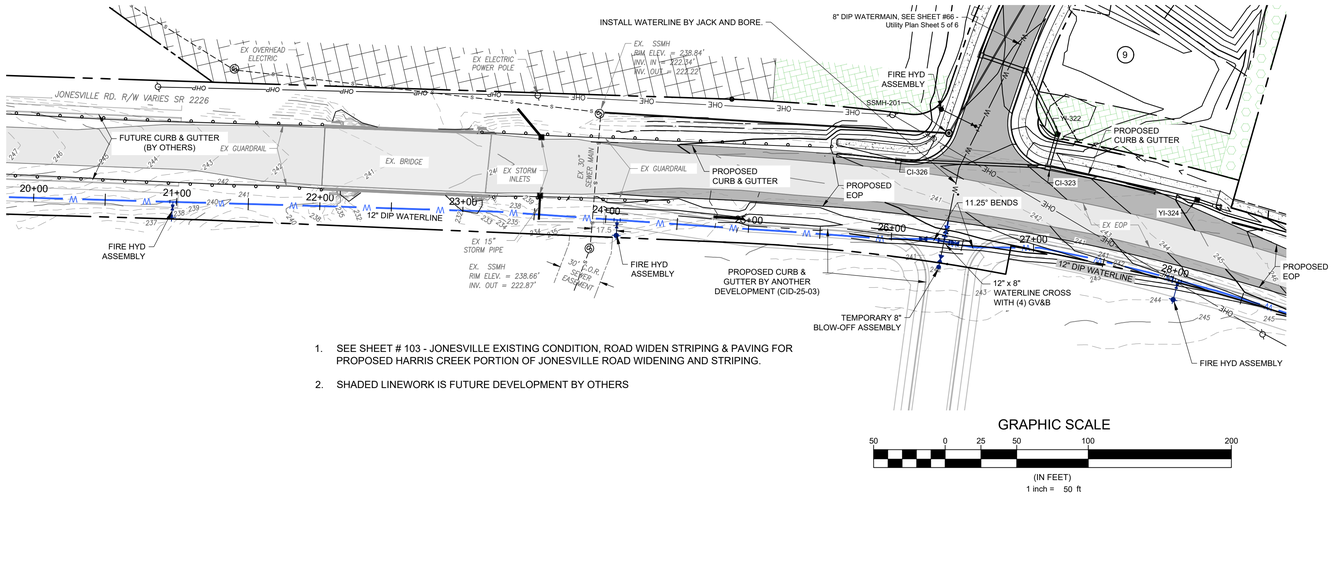
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Sheet Title:

JONESVILLE RD
WATERLINE
10+00 TO 20+00

Sheet #:

126

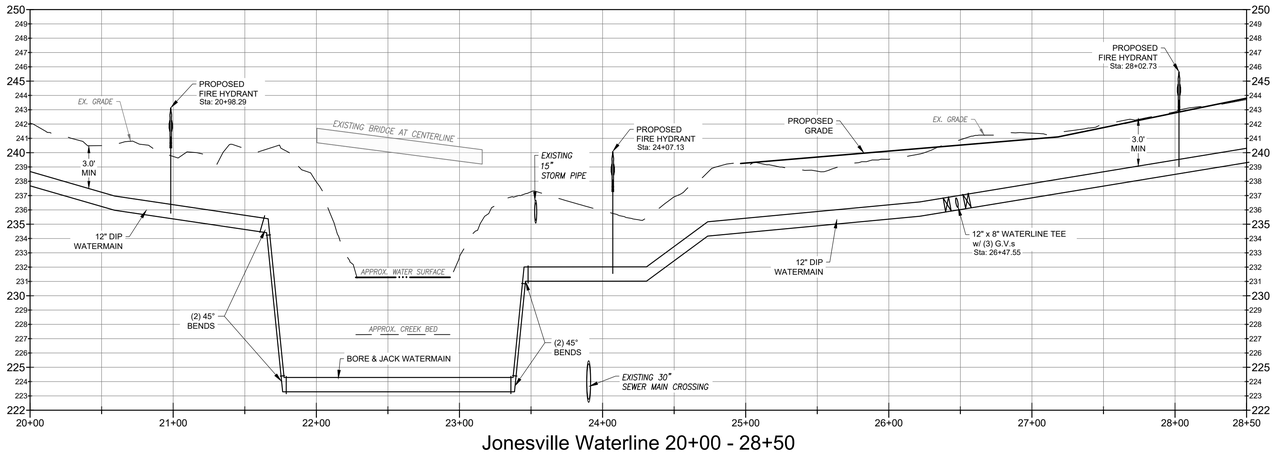


1. SEE SHEET # 103 - JONESVILLE EXISTING CONDITION, ROAD WIDEN STRIPING & PAVING FOR PROPOSED HARRIS CREEK PORTION OF JONESVILLE ROAD WIDENING AND STRIPING.
2. SHADED LINEWORK IS FUTURE DEVELOPMENT BY OTHERS

GRAPHIC SCALE

50 0 25 50 100 200

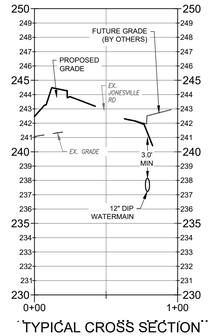
(IN FEET)
1 inch = 50 ft



Jonesville Waterline 20+00 - 28+50

0' 50' 100'
HORZ 1" = 50'

0' 5' 10'
VERT 1" = 5'



TYPICAL CROSS SECTION

0' 50' 100'
HORZ 1" = 50'

0' 5' 10'
VERT 1" = 5'

NOTE:

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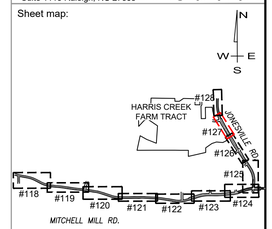
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Bryan Harris

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C=US
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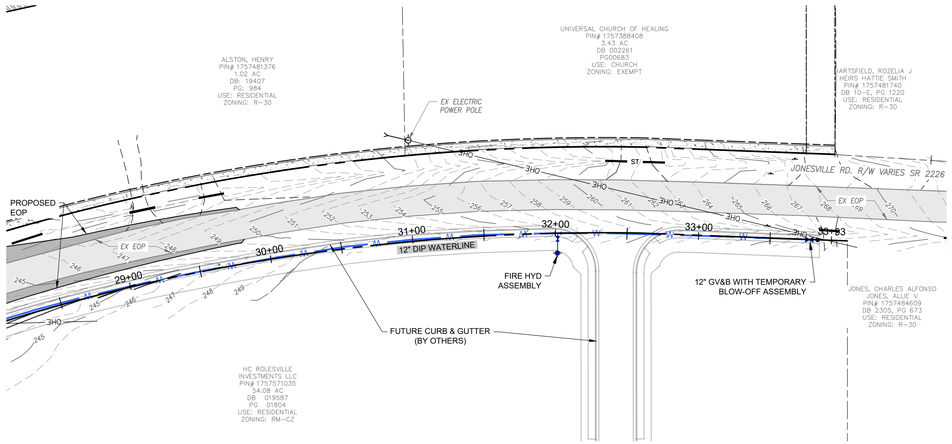
JONESVILLE RD
WATERLINE
20+00 TO 30+00

Sheet #:

127

N.C. UNDERGROUND UTILITIES
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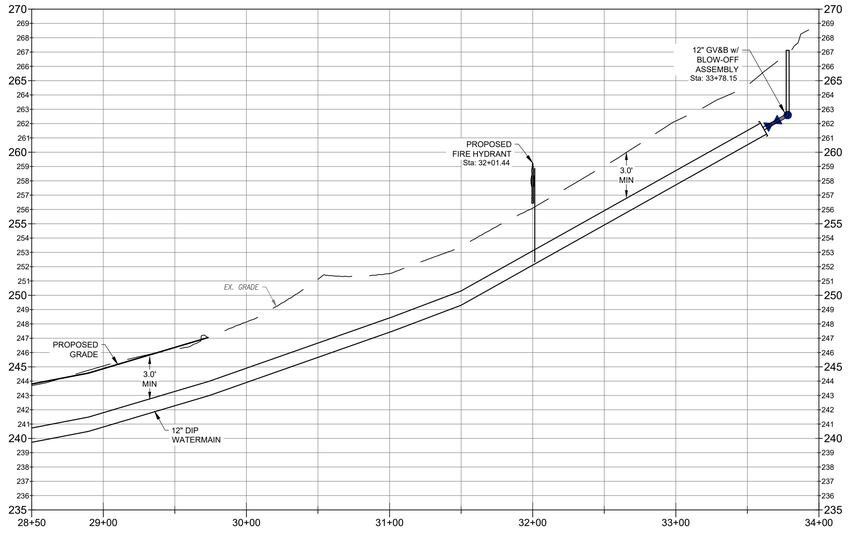
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(IN FEET)

1 inch = 50 ft



0' 50' 100'

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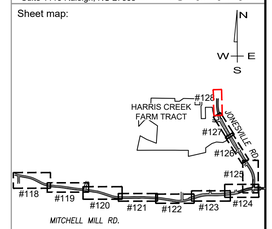
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Sheet Title:

JONESVILLE RD WATERLINE 28+50 TO 34+00

Sheet #:

128