CONSTRUCTION DRAWINGS FOR

HARRIS CREEK FARMS

TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

CASE NUMBER: 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
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:	1757277811, 1757471559 , 1757383572 , 1757384572 , 1757385064 , 1757375975 , 1757375865 , 1757375765 , 1757375665 , 1757375575 , 1757375464 , 1757375365 , 1757375276 , 1757378303 , 1757378109 , 1757378013 , 1757368816
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	
STREET A	1,125 LF 50' R/W 35' BC - BC
STREET B	1,245 LF VARIABLE R/W 35' BC - BC
STREET C	2,360 LF 50' R/W 35' BC - BC
STREET D	705 LF 50' R/W 27' BC - BC
STREET E	370 LF 50' R/W 27' BC - BC
DEDICATED ROAD R.O.W.	7.64 ACRES

VICINITY MAP

0 2,500 5,000 10,000

1 inch = 2,500 ft

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

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

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)

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.

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.

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 # _____

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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

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT

APPROVED

EROSION CONTROL ☐ SEC-_____

STORMWATER MGMT.☐SWF-_____

FLOOD STUDY ☐ SWF-_____

DATE_____

WAKE COUNTY NORTH CAROLINA

ENVIRONMENTAL CONSULTANT SIGNATURE

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BCSC
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Apex, NC 27539
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www.batemancivilsurvey.com

Jurisdiction / Municipality

Rolesville
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Est. 1837

Town of Rolesville
502 Southtown Cir
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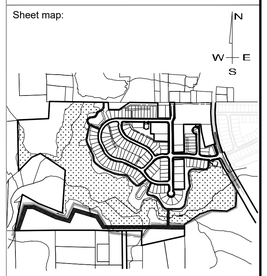
Other Consultants

Sheet map:



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Bryan Harris

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Sheet Title:

COVER

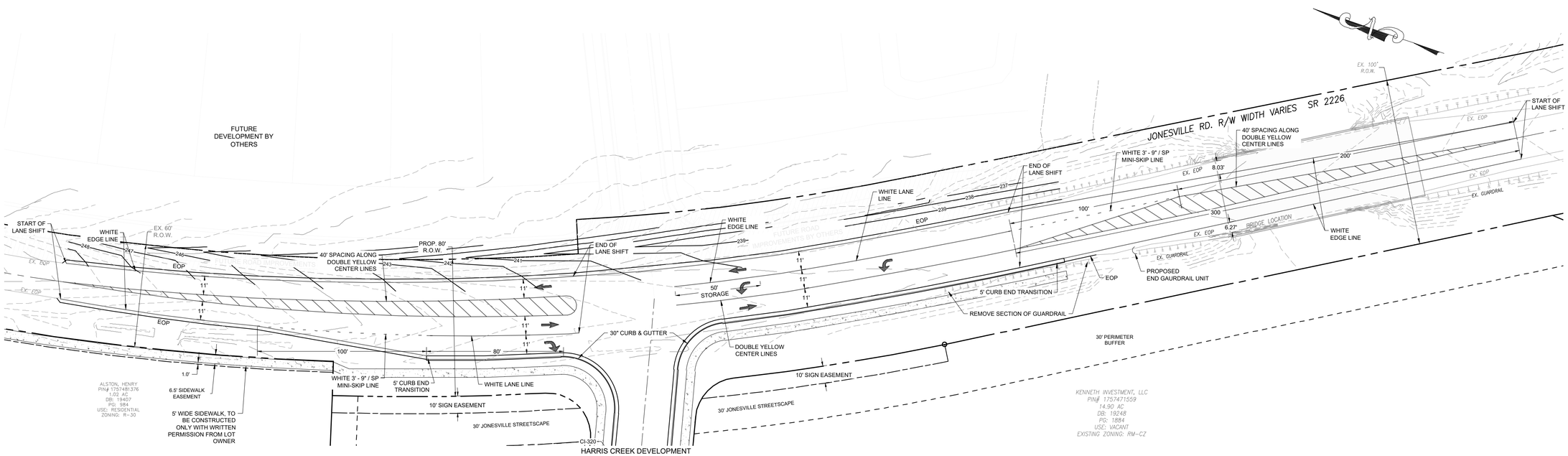
Sheet #:

1

File Location: C:\Users\BryanHarris\Quantech\Quantech Engineering - Documents\Harris Creek Farm - Jonesville\Engineering_DWG\Construction Plans\1 Cover.dwg

Jonesville Road Existing Conditions

SCALE: 1" = 30'



Jonesville Rd Road Widening & Striping Plan

SCALE: 1" = 30'

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft

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information@strongrockengineering.com

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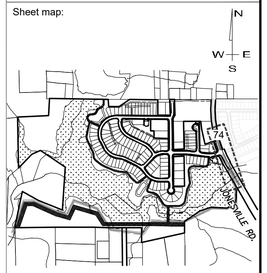

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Sheet Title:

JONESVILLE RD EXISTING CONDITION, ROAD WIDEN & STRIPING PLAN

Sheet #:

74

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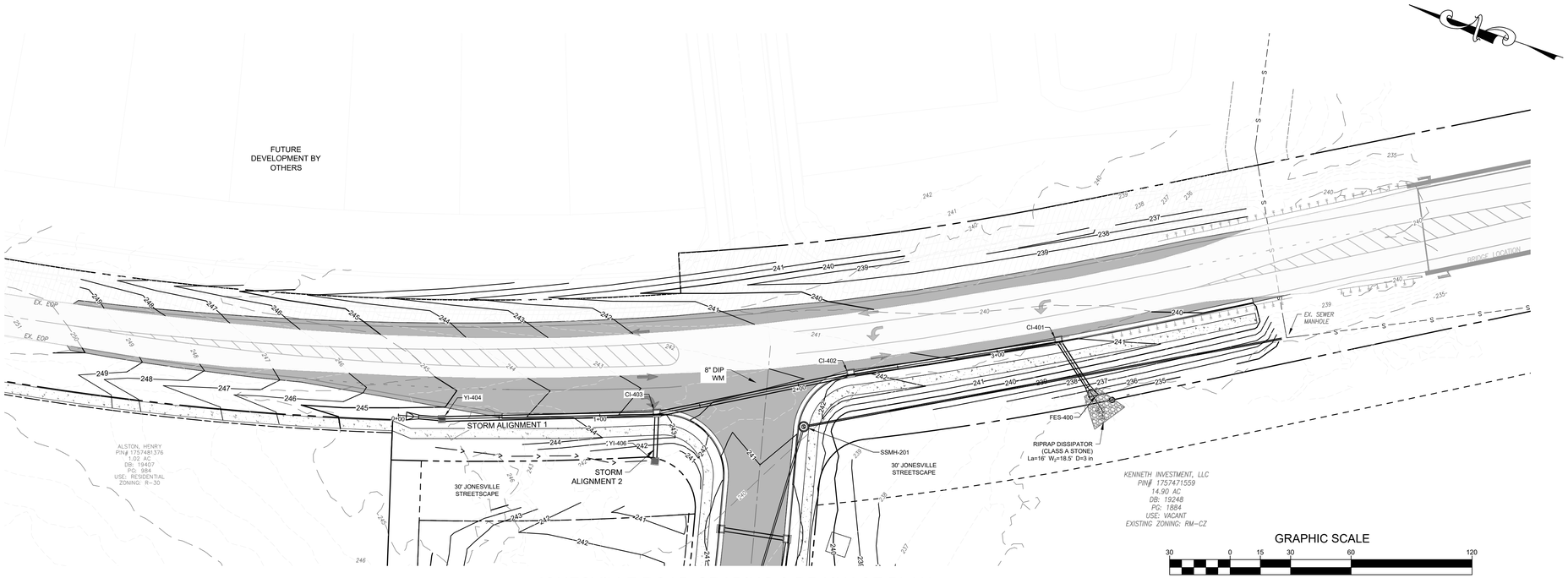
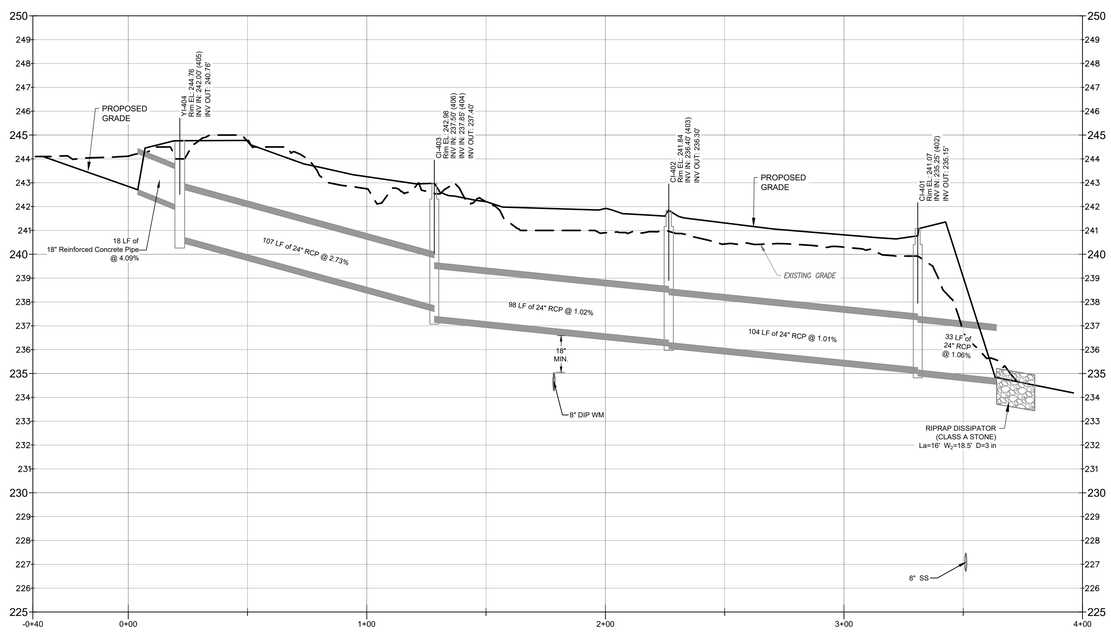


JONESVILLE ROAD GRADING & DRAINAGE PLAN

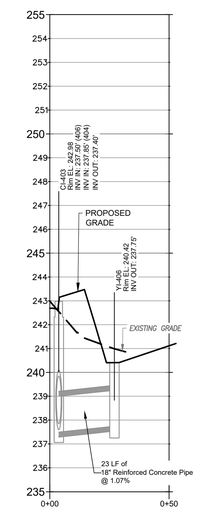
GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft



JONESVILLE ROAD DRAINAGE PROFILE ALIGNMENT 1



JONESVILLE ROAD DRAINAGE PROFILE ALIGNMENT 2

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

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

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Town of Rolesville
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Other Consultants

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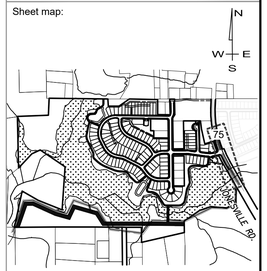

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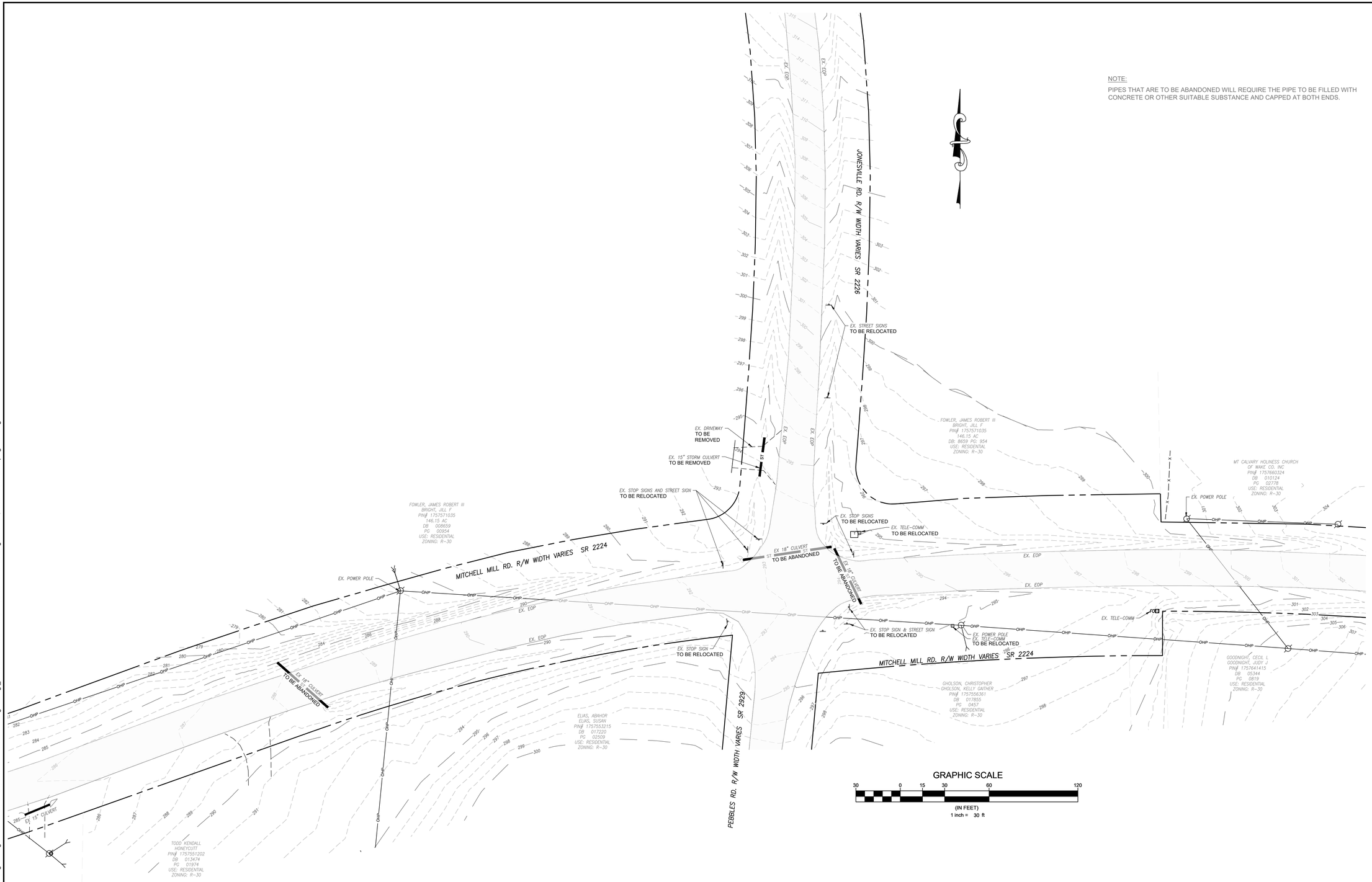
JONESVILLE ROAD GRADING AND DRAINAGE PLAN & PROFILES

Sheet #:
75

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.



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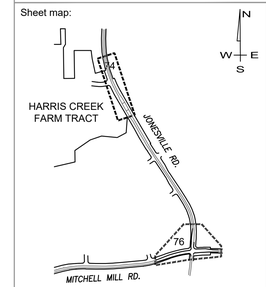

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Sheet Title:

MITCHELL MILL EXISTING CONDITIONS & DEMOLITION PLAN

Sheet #:

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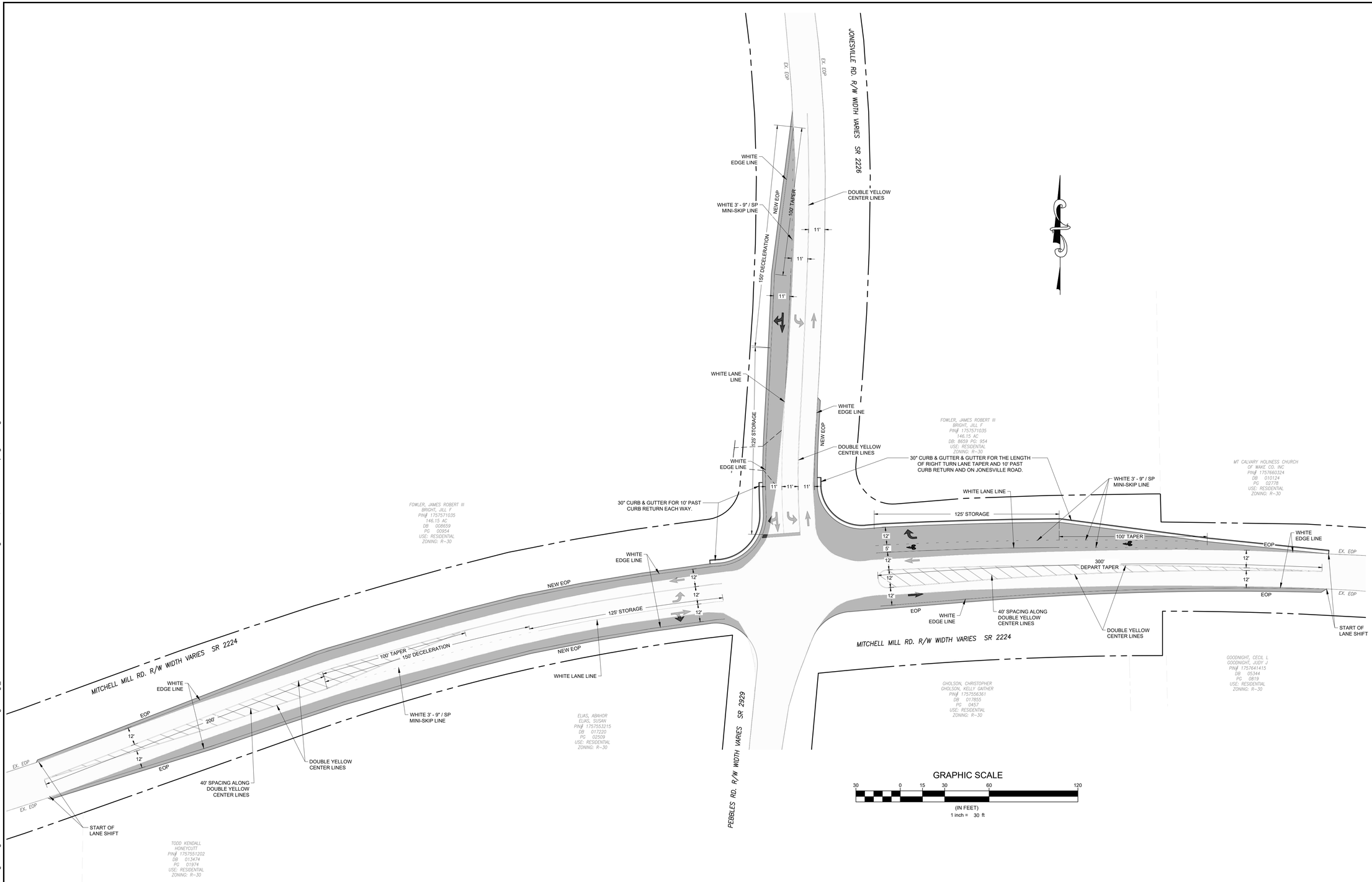

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information@strongrockengineering.com

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Other Consultants

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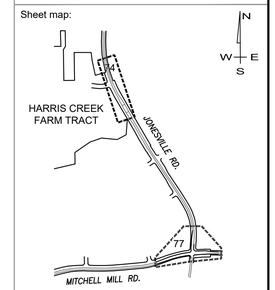

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Bryan Harris

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Project:

HARRIS CREEK FARMS

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MITCHELL MILL WIDENING & STRIPING PLAN

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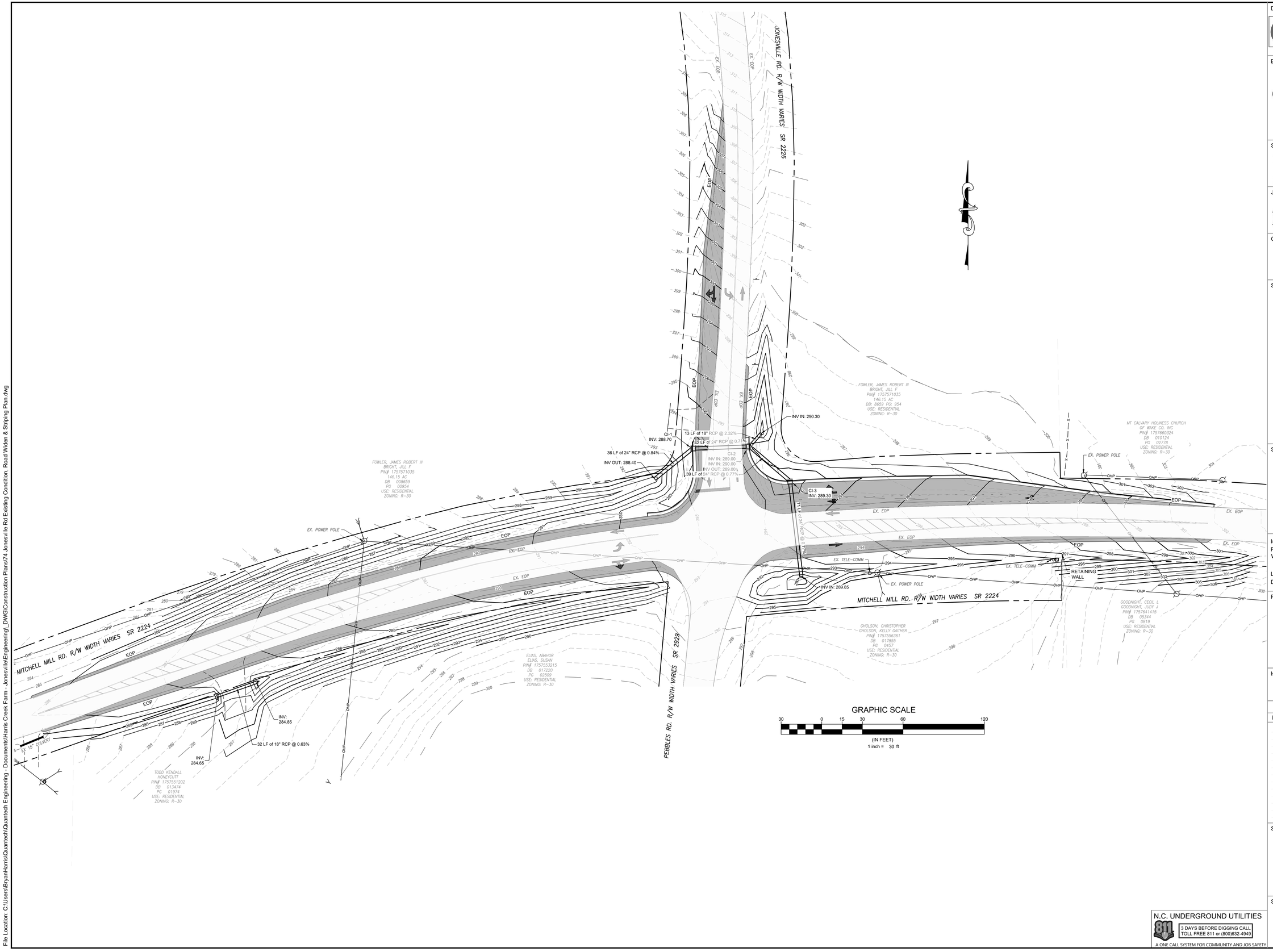
77



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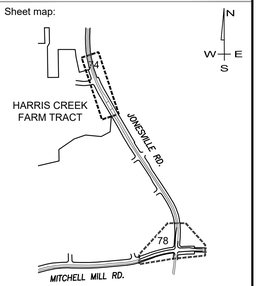

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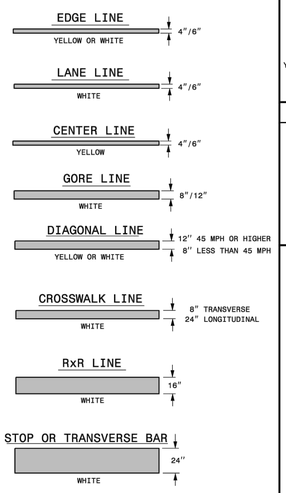
MITCHELL MILL GRADING PLAN

Sheet #:

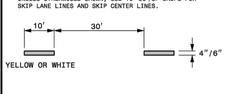
78

CONTINUOUS LINES



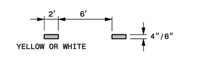
10'-30'/SP SKIP LINE

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



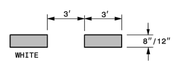
2'-6'/SP MINI-SKIP LINE

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



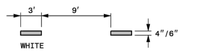
3'-3'/SP MINI-SKIP LINE

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.

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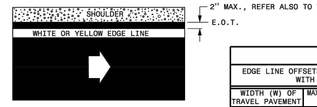
ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
LINE TYPES AND OFFSETS

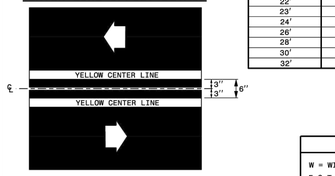
SHEET 1 OF 2

1205.01

EDGE LINE OFFSET DETAIL



CENTER LINE OFFSET DETAIL



LANE LINE OFFSET DETAIL

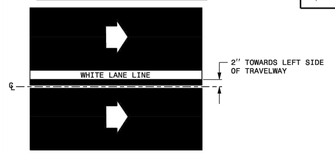


TABLE 1

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'

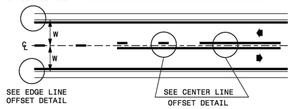
LEGEND

W = WIDTH OF TRAVEL LANE

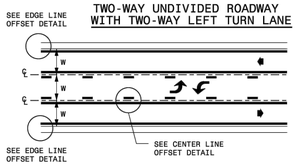
E.O.T.= EDGE OF TRAVEL

DIRECTION OF TRAFFIC FLOW

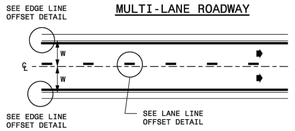
TWO-WAY UNDIVIDED ROADWAY



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

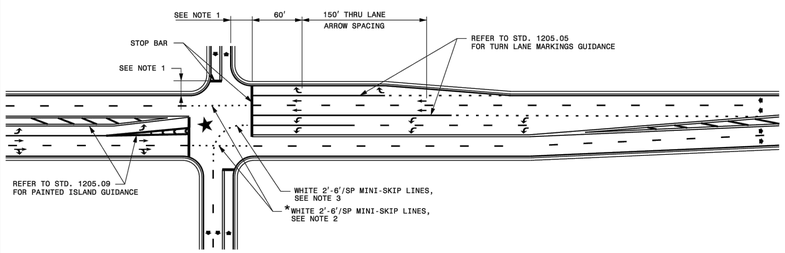
SHEET 2 OF 2

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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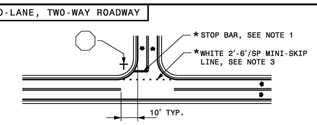
ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
INTERSECTIONS

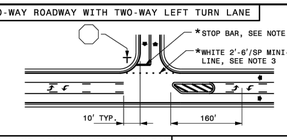
SHEET 1 OF 2

1205.04

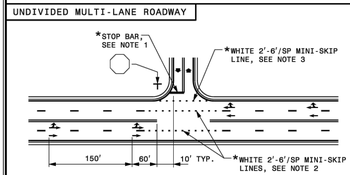
TWO-LANE, TWO-WAY ROADWAY



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

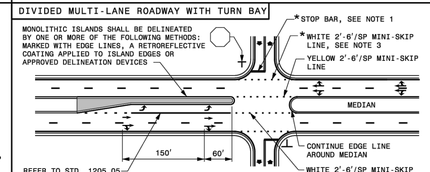


UNDIVIDED MULTI-LANE ROADWAY

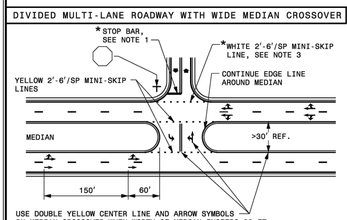


DIVIDED MULTI-LANE ROADWAY WITH TURN BAY

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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ROAD WIDENING & STRIPING DETAILS

Sheet #:

79

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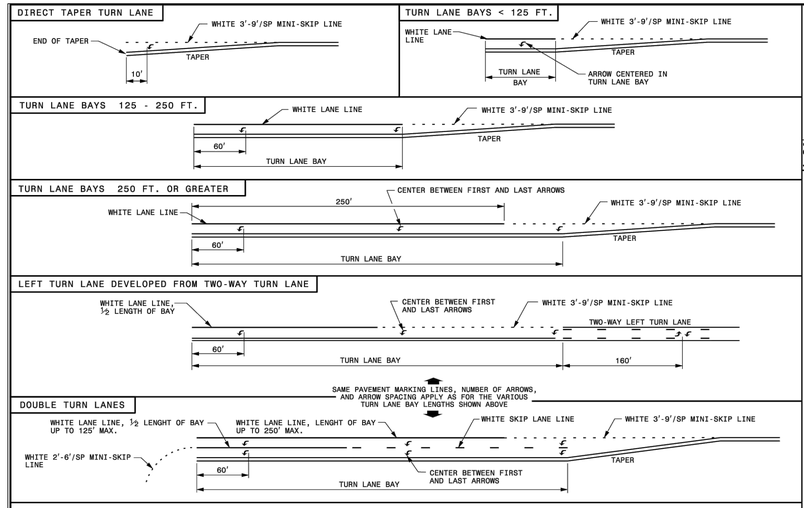


GENERAL NOTES:

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

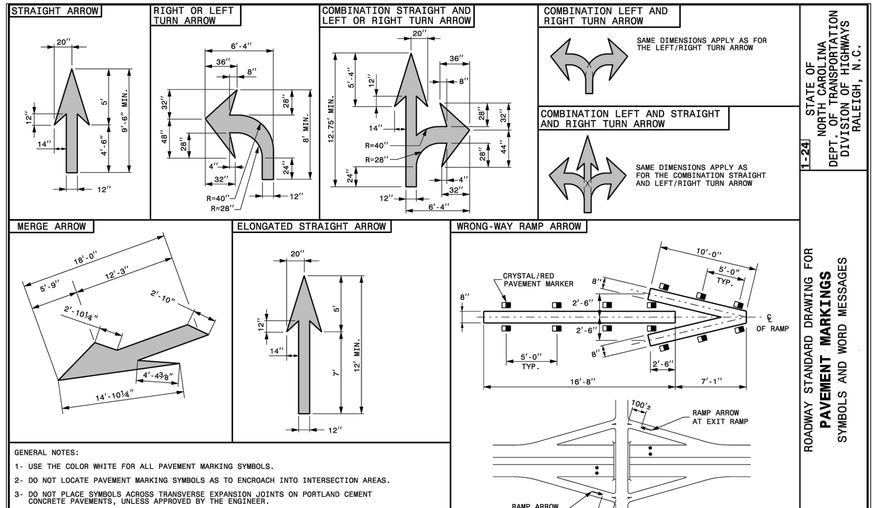
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR **PAVEMENT MARKINGS** TURN LANES

SHEET 1 OF 1

1205.05



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.

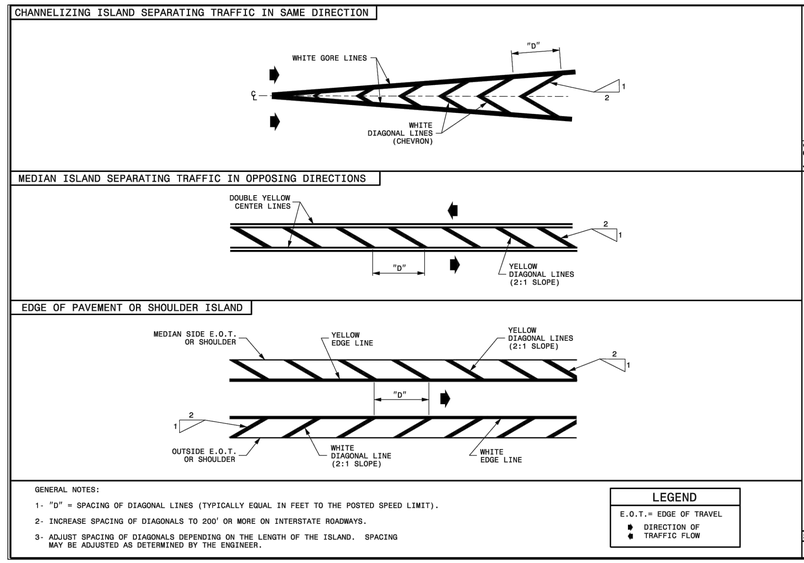
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR **PAVEMENT MARKINGS** SYMBOLS AND WORD MESSAGES

SHEET 1 OF 9

1205.08



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

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

1-24

ROADWAY STANDARD DRAWING FOR **PAVEMENT MARKINGS** PAINTED ISLANDS

SHEET 1 OF 1

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File Name: 74 Jonesville Rd Existing Condition, Road Widen & Striping Plan.dwg

Last Saved by: BryanHarris
Drawn by: TAN

Project:

HARRIS CREEK FARMS

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REVISIONS

No.	Date	Description
1	02Sep2025	Town of Rolesville Planning Dept. comments

Sheet Title:

ROAD WIDENING & STRIPING DETAILS

Sheet #:

80

File Location: C:\Users\BryanHarris\Quantech\Quantech Engineering - Documents\Harris Creek Farm - Jonesville\Engineering_DWG\Construction Plans\74 Jonesville Rd Existing Condition, Road Widen & Striping Plan.dwg

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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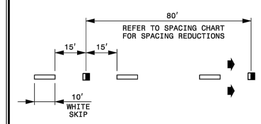
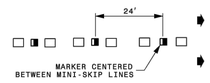
ROADWAY STANDARD DRAWING FOR
RAISED PAVEMENT MARKERS
INSTALLATION SPACING

SHEET 1 OF 3
1250.01

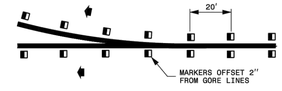
10'-30'/SP SKIP LINE



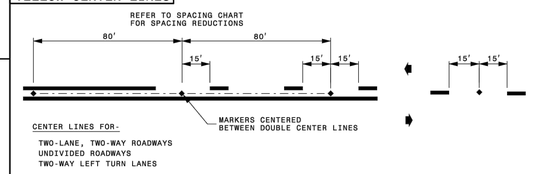
3'-9'/SP MINI-SKIP LINE



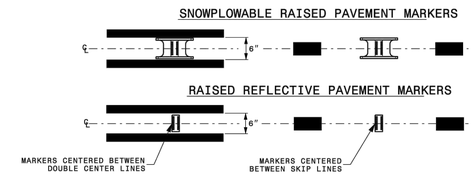
GORE LINES



YELLOW CENTER LINES



DETAIL OF PAVEMENT MARKER PLACEMENT



LEGEND

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

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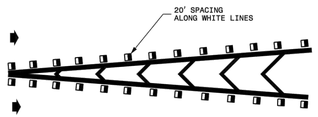
ROADWAY STANDARD DRAWING FOR
RAISED PAVEMENT MARKERS
INSTALLATION SPACING

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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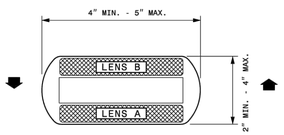
ROADWAY STANDARD DRAWING FOR
RAISED PAVEMENT MARKERS
INSTALLATION SPACING

SHEET 3 OF 3
1250.01

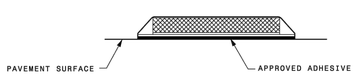
TYPICAL PAVEMENT MARKER

TOP VIEW

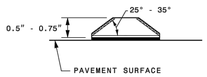


LENS A	LENS B
YELLOW	YELLOW
CRYSTAL	RED
CRYSTAL	CRYSTAL

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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Surveyor
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information@strongrockengineering.com

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

Other Consultants

Sheet map:

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Sheet Title:
ROAD WIDENING & STRIPING DETAILS

Sheet #:
81

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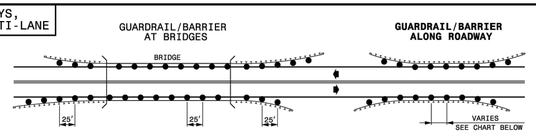
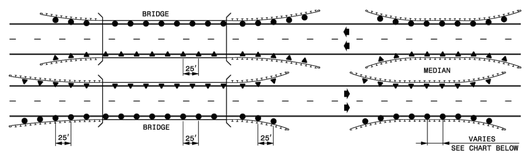
UNDIVIDED ROADWAYS,
TWO-LANE AND MULTI-LANE



DIVIDED ROADWAYS



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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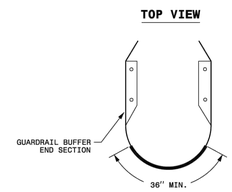
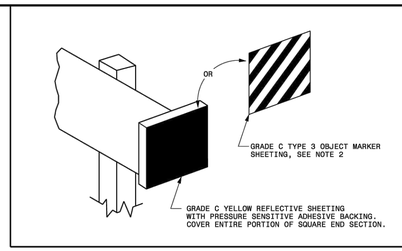
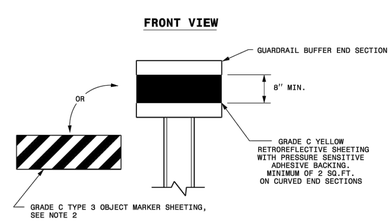
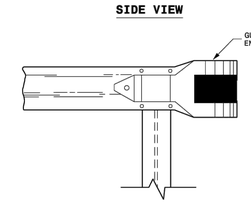
ROADWAY STANDARD DRAWING FOR
GUARDRAIL AND BARRIER DELINEATORS
INSTALLATION SPACING

SHEET 1 OF 1
1261.01









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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Suite 1110 Raleigh, NC 27609
984-200-1932
information@strongrockengineering.com

Jurisdiction / Municipality

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

Other Consultants

Sheet map:

N
W E
S

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NORTH CAROLINA PROFESSIONAL SEAL 53676 ENGINEER BRYAN A. HARRIS

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E=Bryan@QuantechEng.com
O=Quantech Engineering LLP
CN=Bryan Harris
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Sheet Title:

ROAD
WIDENING &
STRIPING
DETAILS

Sheet #:

82

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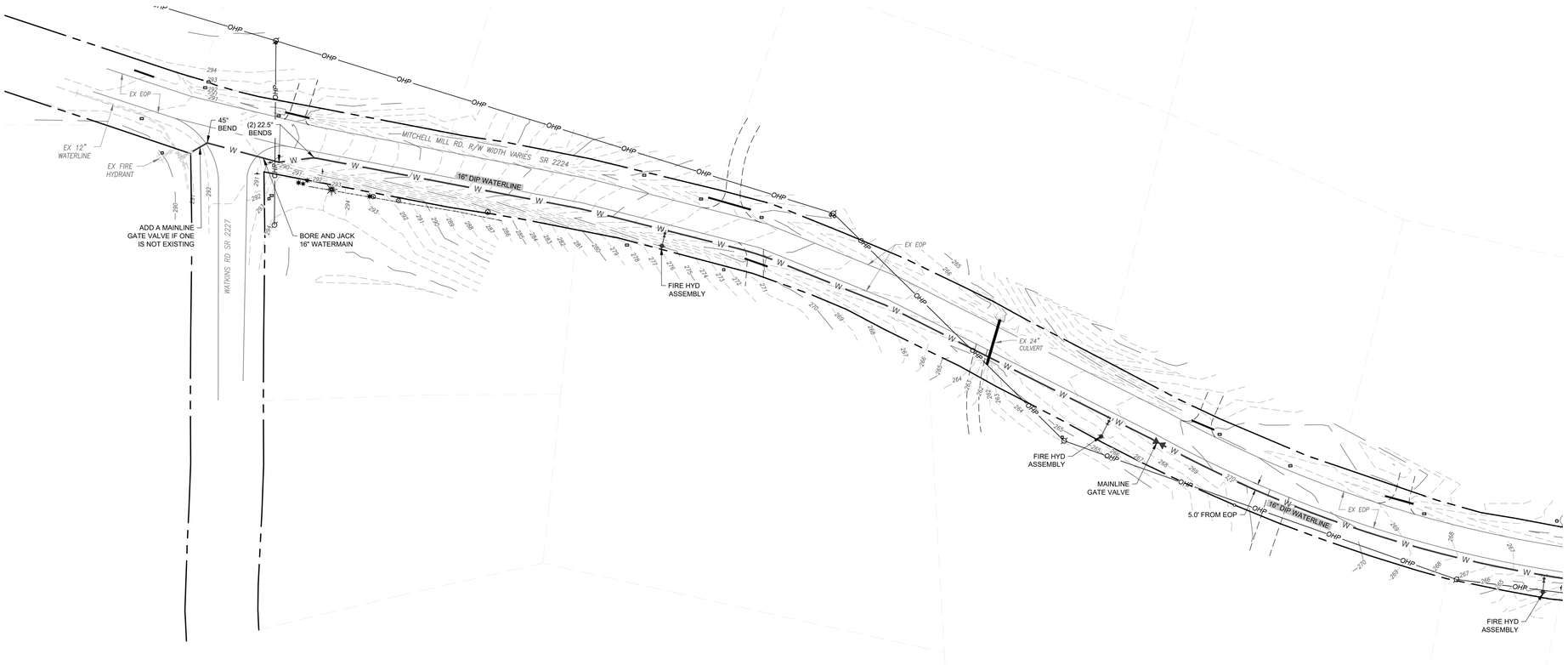
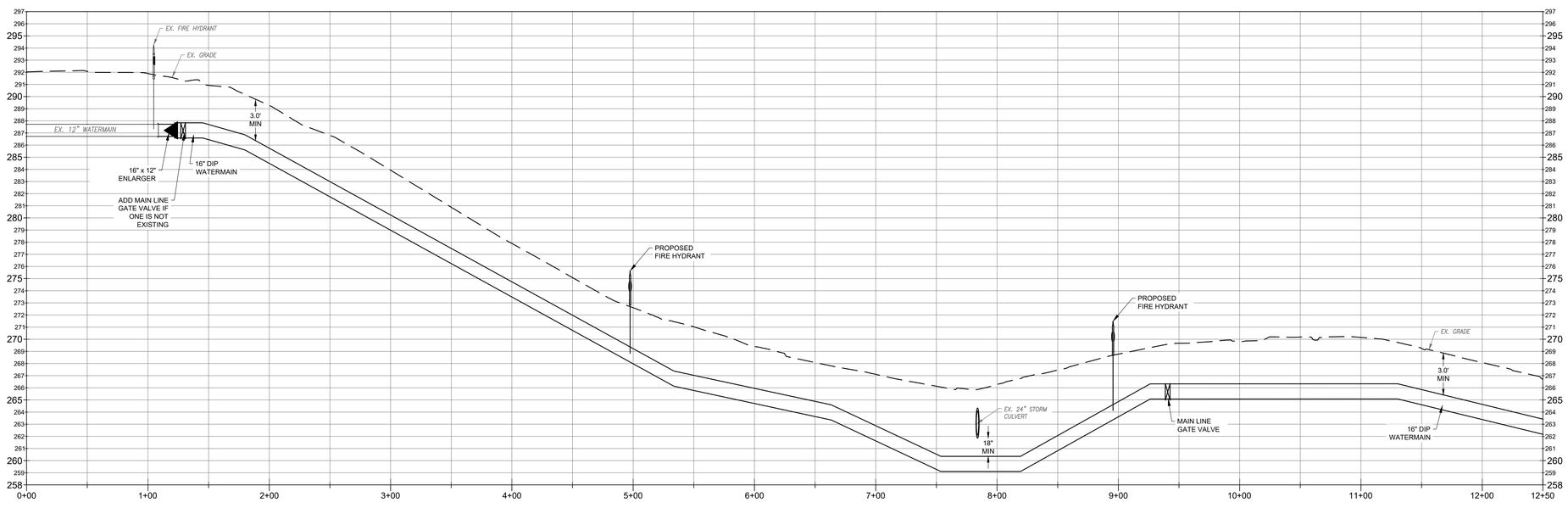


GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft



HORZ 1" = 50'

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

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Rolesville, NC 27571
Phone: 919-554-6517
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Other Consultants

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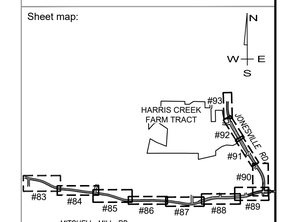

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NORTH CAROLINA PROFESSIONAL SEAL 53676 ENGINEER BRYAN A. HARRIS

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Sheet Title:

MITCHELL WATERLINE 0+00 TO 12+50

Sheet #:

83

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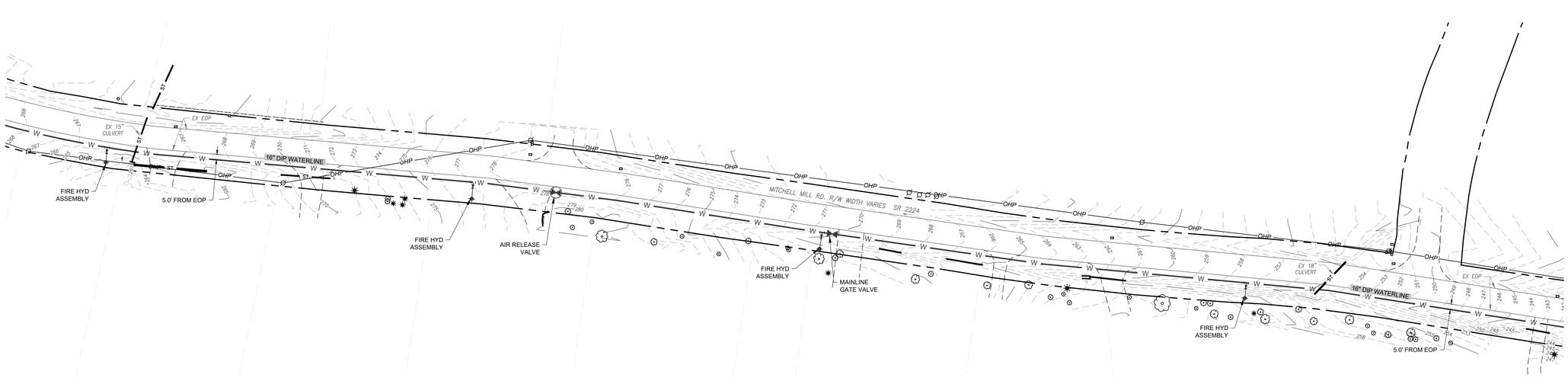

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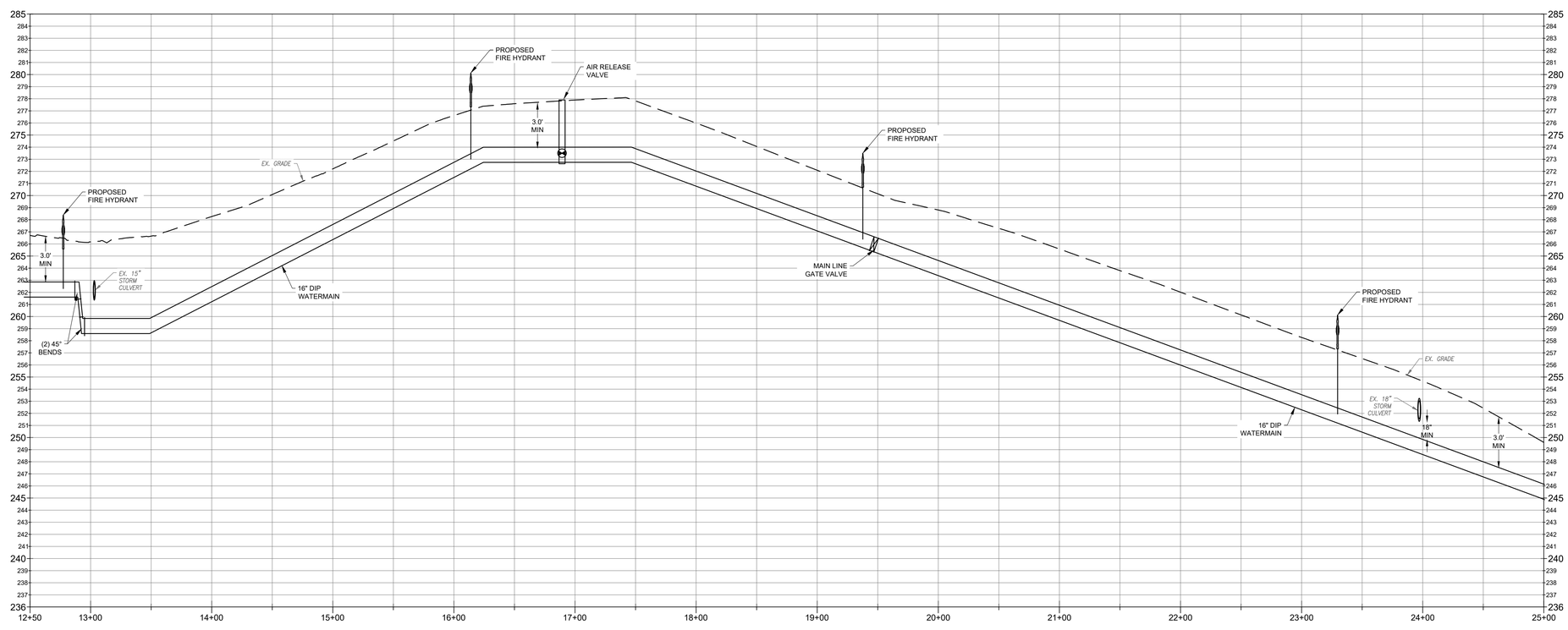

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City of Raleigh
Public Utilities DepartmentPermit # _____

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SEWER COLLECTION / EXTENSION SYSTEM

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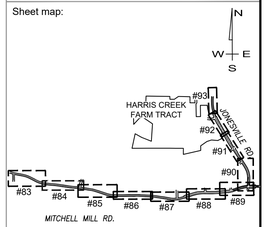

Seal:

NORTH CAROLINA PROFESSIONAL SEAL 53676 ENGINEER BRYAN A. HARRIS

Bryan Harris
Digitally signed by Bryan Harris
DN: C=US, E=BryanH@QuantechEng.com, O=Quantech Engineering LLP, CN=Bryan Harris
I Reviewed I have reviewed this Document.
Date: 2025.09.03 16:53:26-04'00'

FINAL DRAWING - FOR REVIEW PURPOSES ONLY

Issued / Print Date: 2025-September-02 (17:13)
File Name: 74 Jonesville Rd Existing Condition, Road Widen & Striping Plan.dwg

Last Saved by: BryanHarris
Drawn by: TAN

Project:

HARRIS CREEK FARMS

CID-25-03

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REVISIONS

No.	Date	Description
1	02Sep2025	Town of Rolesville Planning Dept. comments

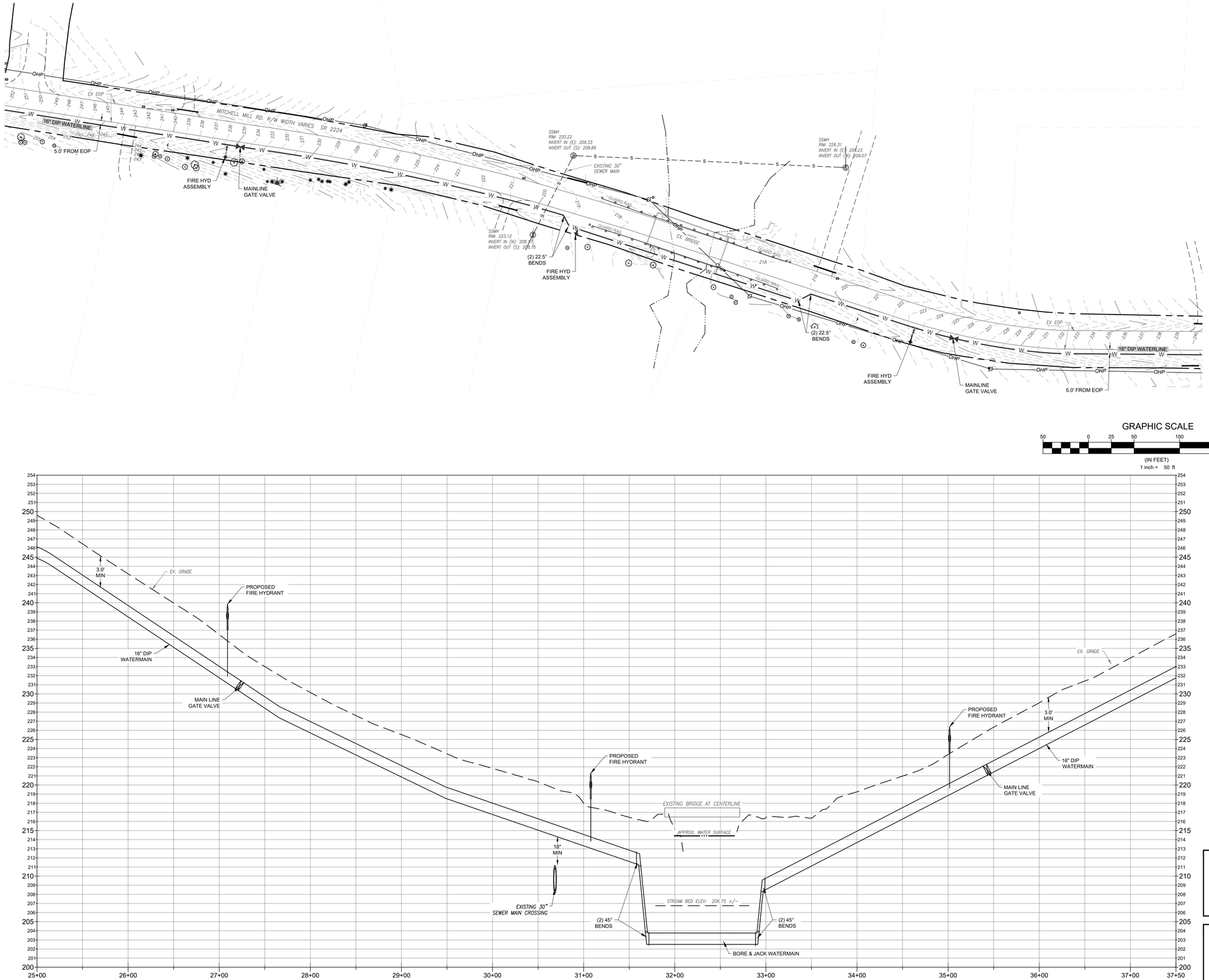
Sheet Title:

MITCHELL WATERLINE 12+50 TO 25+00

Sheet #:

84

File Location: C:\Users\BryanHarris\Quantech\Quantech Engineering - Documents\Harris Creek Farm - Jonesville\Engineering_DWG\Construction Plans\74 Jonesville Rd Existing Condition, Road Widen & Striping Plan.dwg



Public
WATER DISTRIBUTION / EXTENSION SYSTEM

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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

Developer

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

Engineer

QUANTECH ENGINEERING
INNOVATIVE SOLUTIONS | ENGINEERING THE FUTURE
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Cary, N.C. 27513
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Surveyor

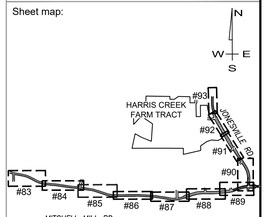
STRONGROCK
THE STRONGROCK COMPANIES
305 Church at North Hills Street 984-200-1932
Suite 1110 Raleigh, NC 27609 information@strongrockengineering.com

Jurisdiction / Municipality

Rolesville
Town of Rolesville
502 Southtown Cir
Rolesville, NC 27571
Phone: 919-554-6517
CID-25-03 (PSP-24-05)

Other Consultants

Sheet map:



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Sheet Title:

MITCHELL WATERLINE 25+00 TO 37+50

Sheet #:

85

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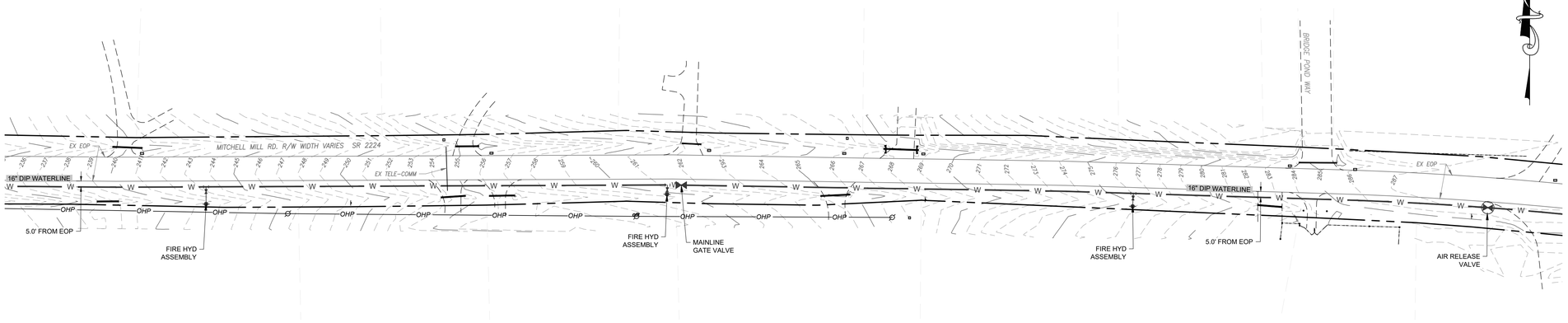
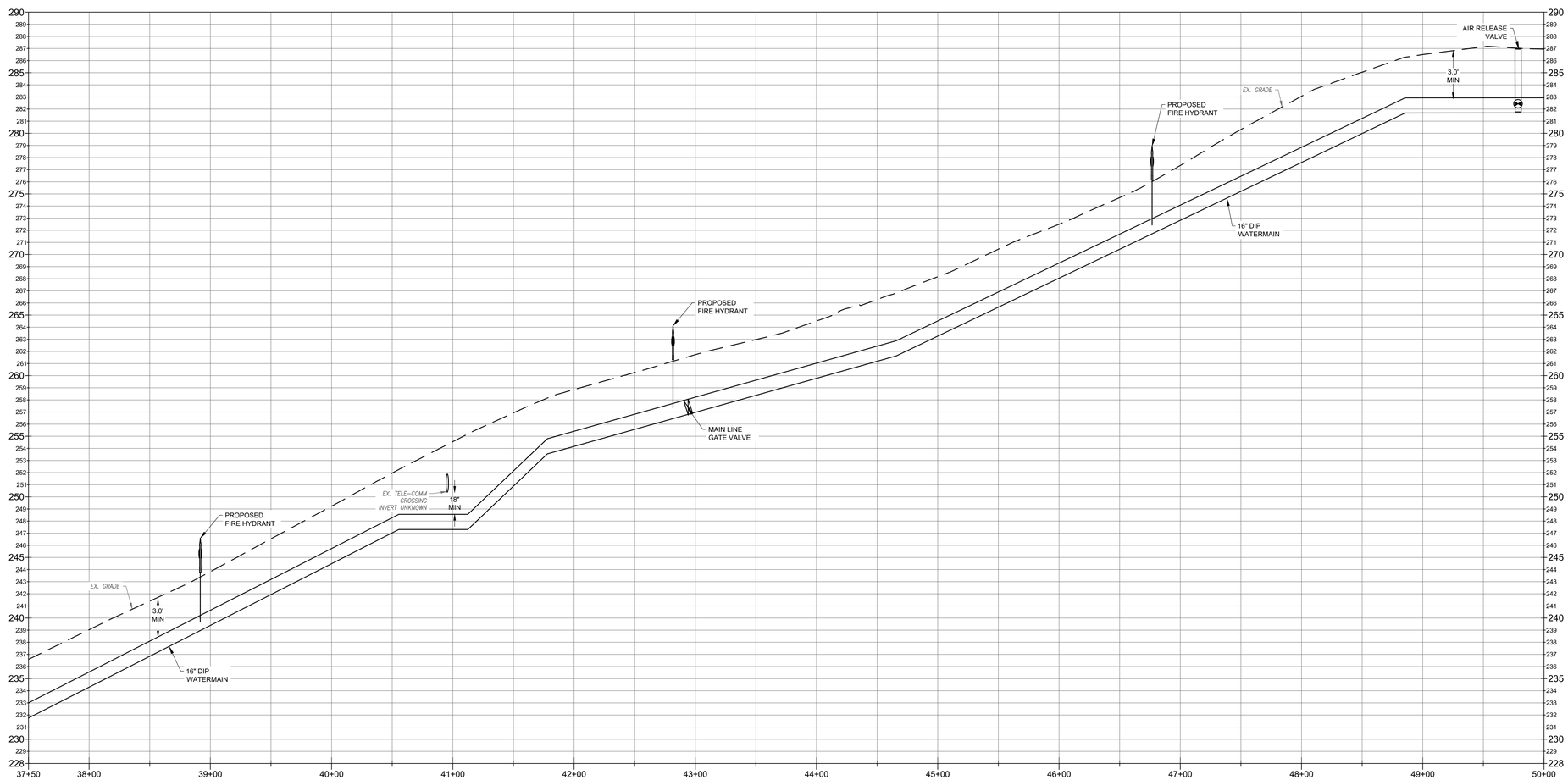


GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft



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Est. 1837

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CID-25-03 (PSP-24-05)

Other Consultants

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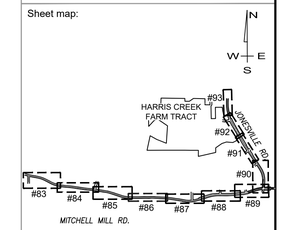

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Sheet Title:

MITCHELL WATERLINE
37+50 TO 50+00

Sheet #:

86

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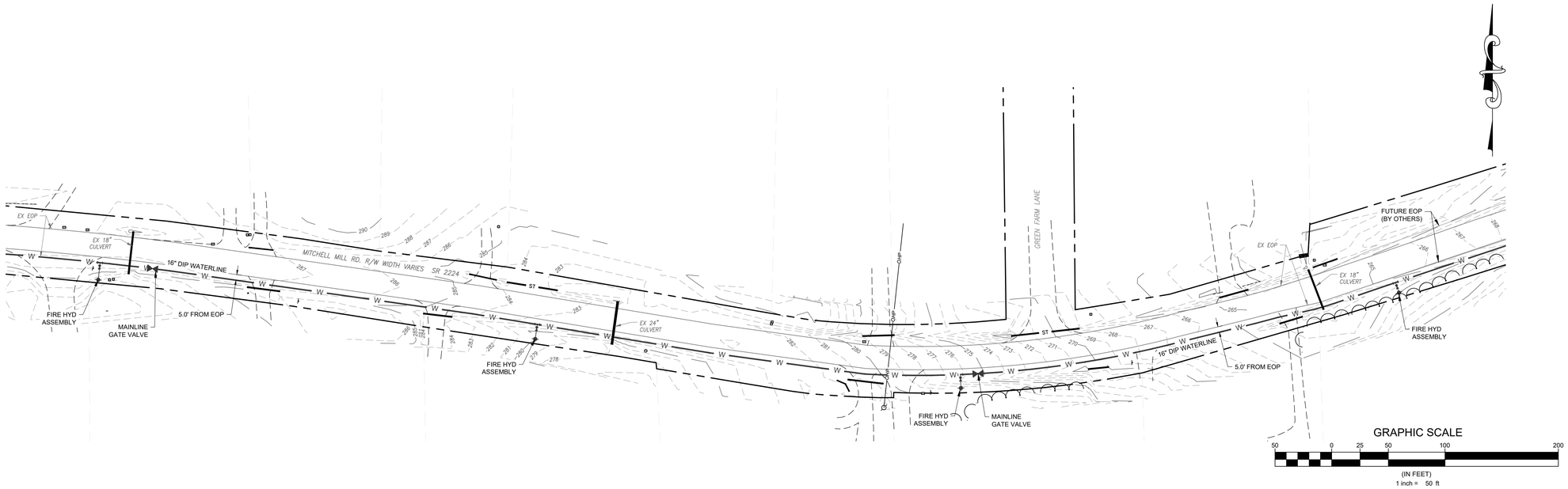

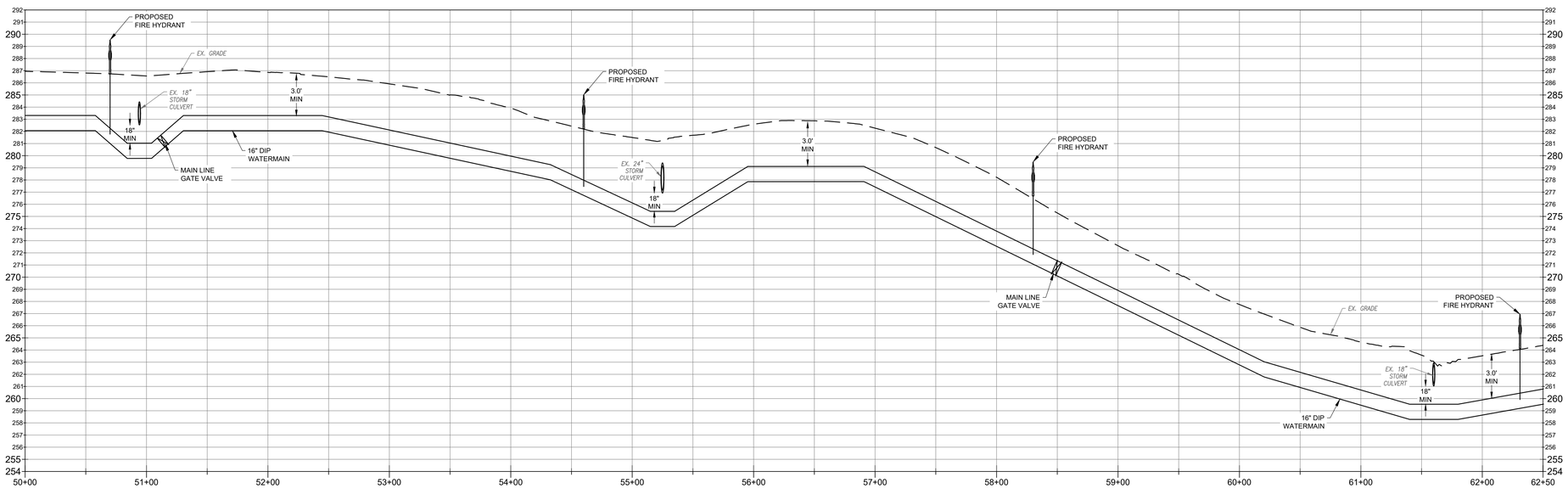

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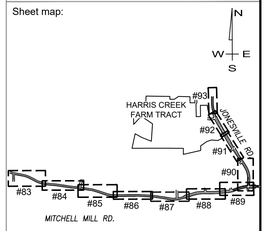

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Sheet Title:

MITCHELL WATERLINE 50+00 TO 62+50

Sheet #:

87

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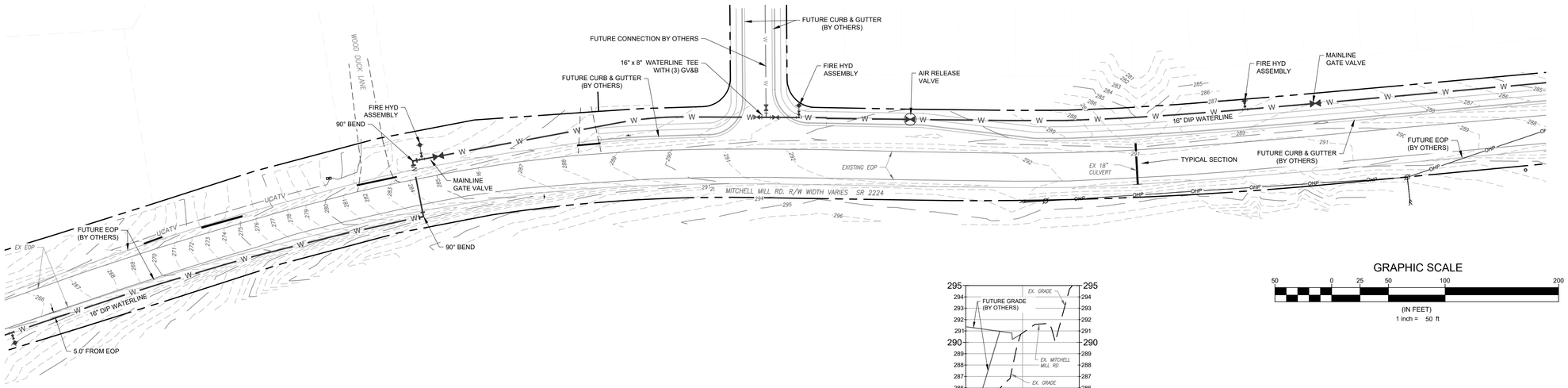
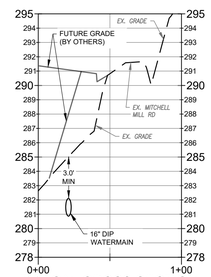




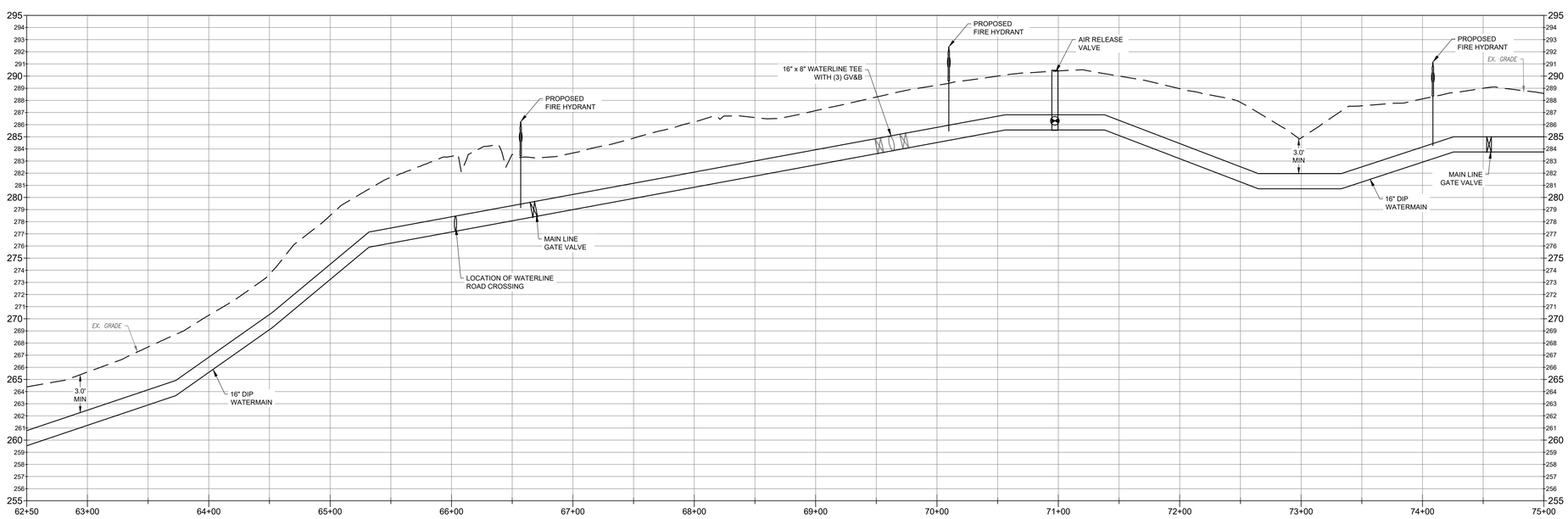
TYPICAL CROSS SECTION

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

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

GRAPHIC SCALE

50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft



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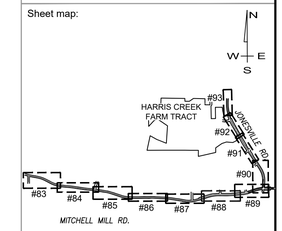
Other Consultants

Sheet map:



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Sheet Title:

MITCHELL WATERLINE 62+50 TO 75+00

Sheet #:

88

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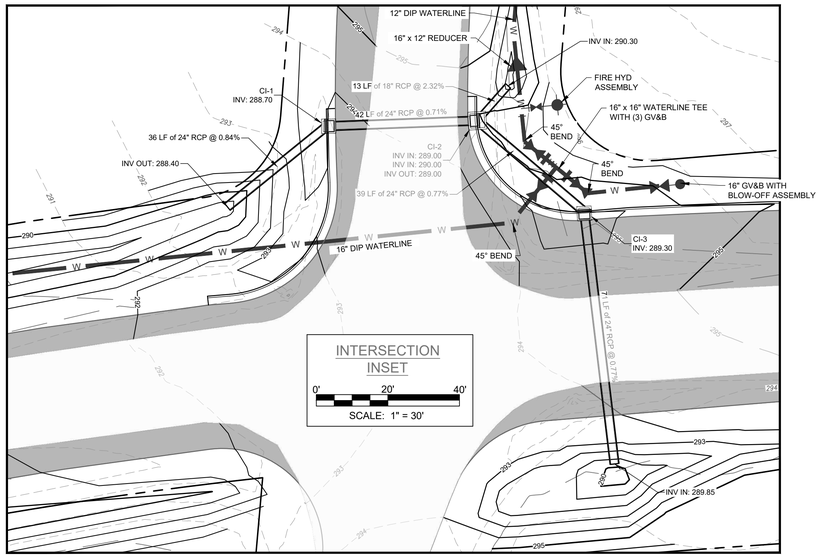
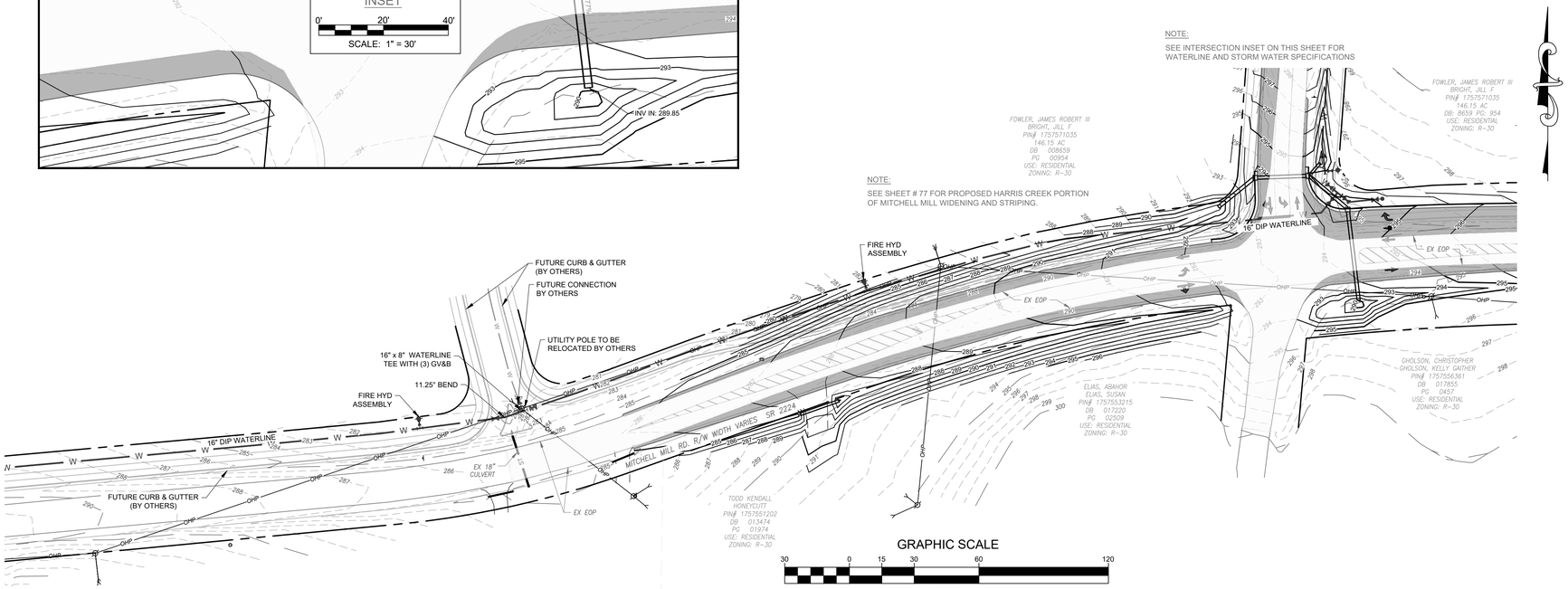
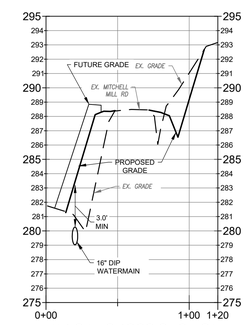


NOTE:
SEE INTERSECTION INSET ON THIS SHEET FOR WATERLINE AND STORM WATER SPECIFICATIONS

NOTE:
SEE SHEET # 77 FOR PROPOSED HARRIS CREEK PORTION OF MITCHELL MILL WIDENING AND STRIPING.





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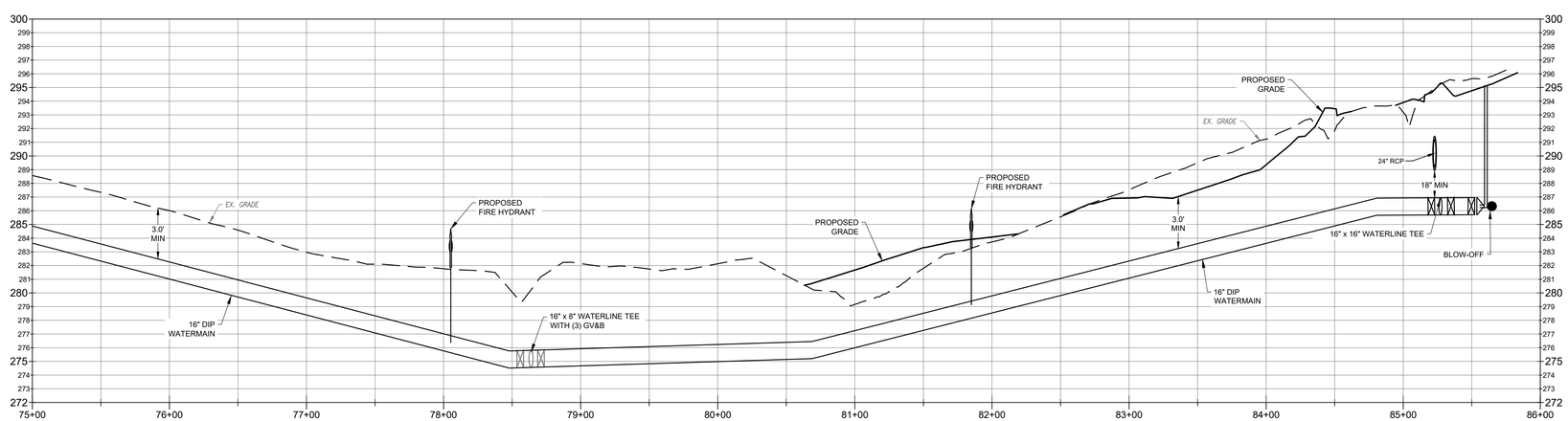

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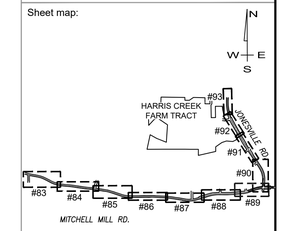

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MITCHELL WATERLINE 75+00 TO 84+00

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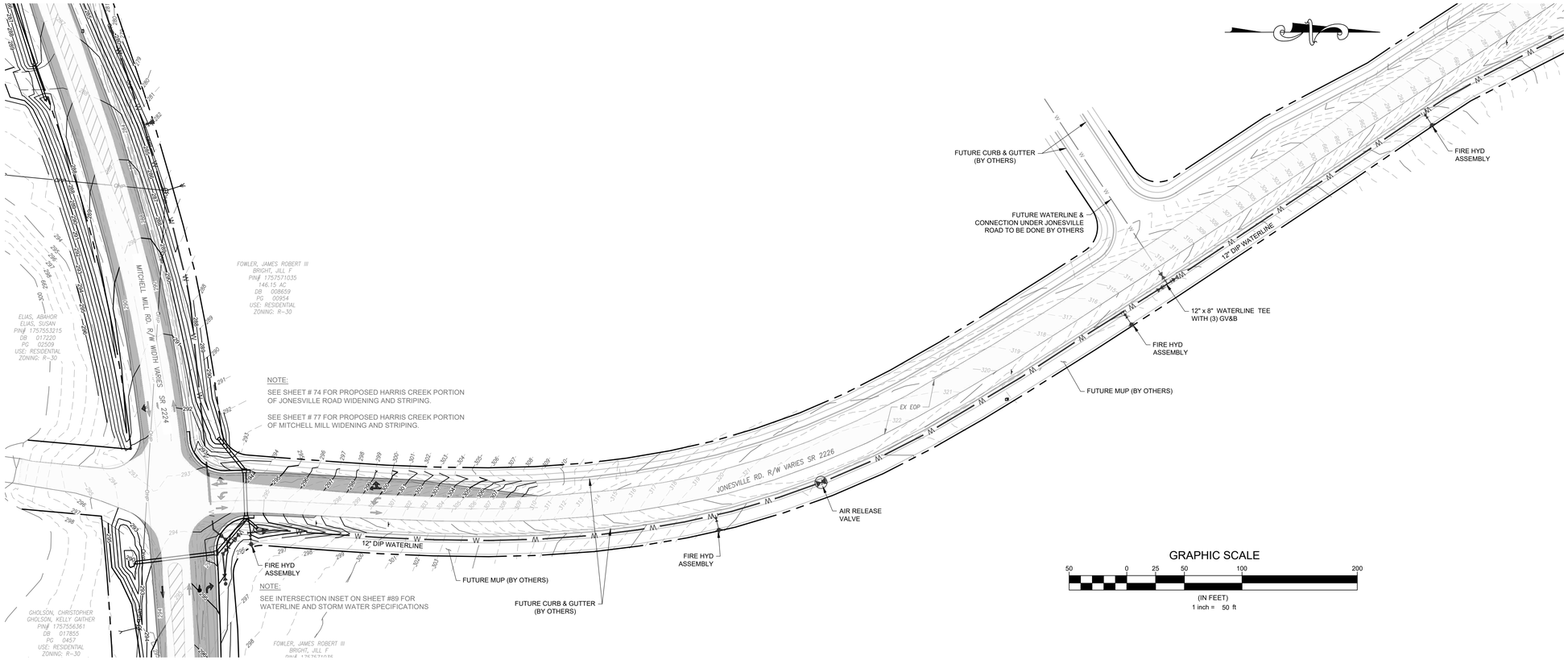

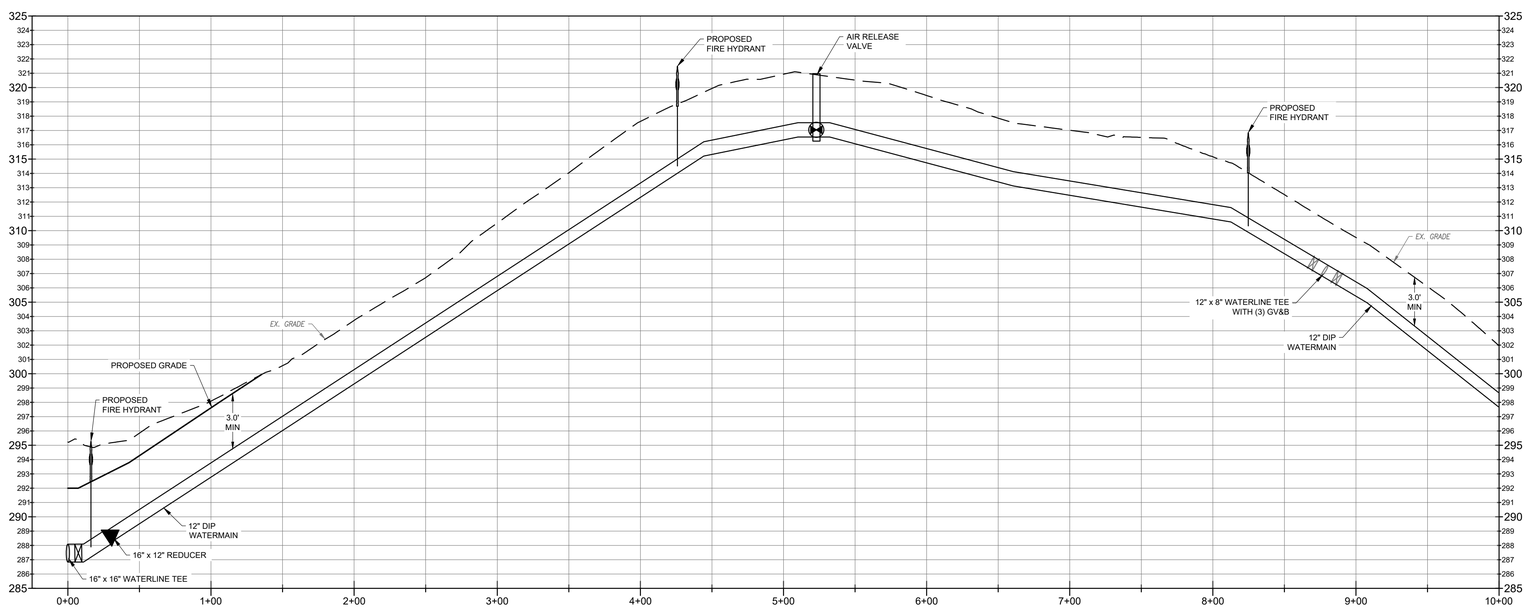

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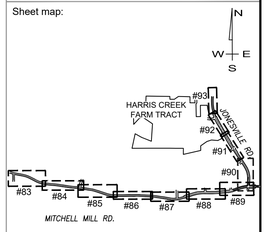

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Date: 2025.09.03 16:53:27-04'00'

FINAL DRAWING - FOR REVIEW PURPOSES ONLY

Issued / Print Date: 2025-September-02 (17:16)
File Name: 74 Jonesville Rd Existing Condition, Road Widen & Striping Plan.dwg

Last Saved by: BryanHarris
Drawn by: TAN

Project:

HARRIS CREEK FARMS

CID-25-03

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REVISIONS

No.	Date	Description
1	02Sep2025	Town of Rolesville Planning Dept. comments

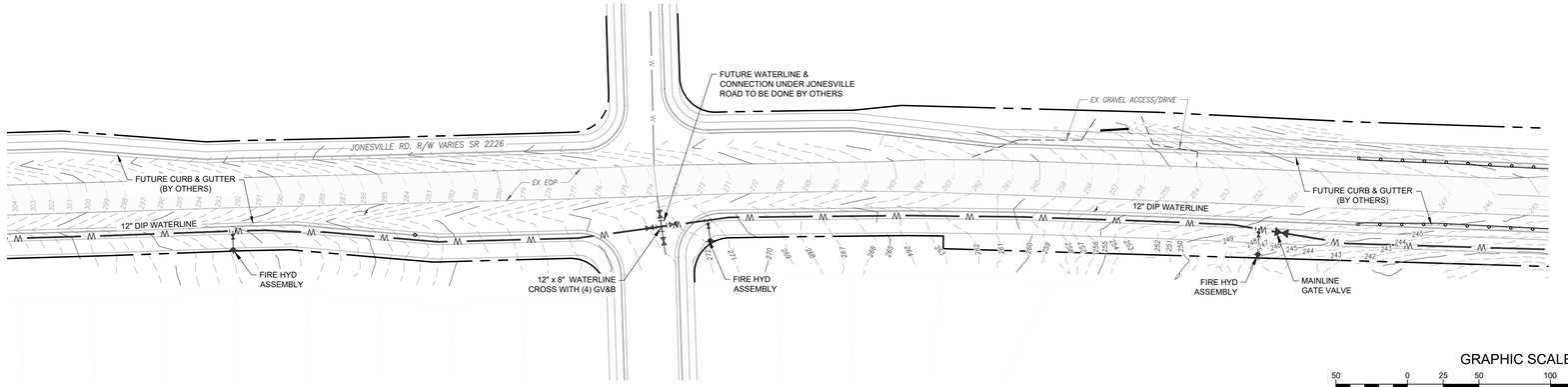
Sheet Title:

JONESVILLE RD WATERLINE 0+00 TO 10+00

Sheet #:

90

File Location: C:\Users\BryanHarris\Quantech\Quantech Engineering - Documents\Harris Creek Farm - Jonesville\Engineering_DWG\Construction Plans\74 Jonesville Rd Existing Condition, Road Widen & Striping Plan.dwg



GRAPHIC SCALE

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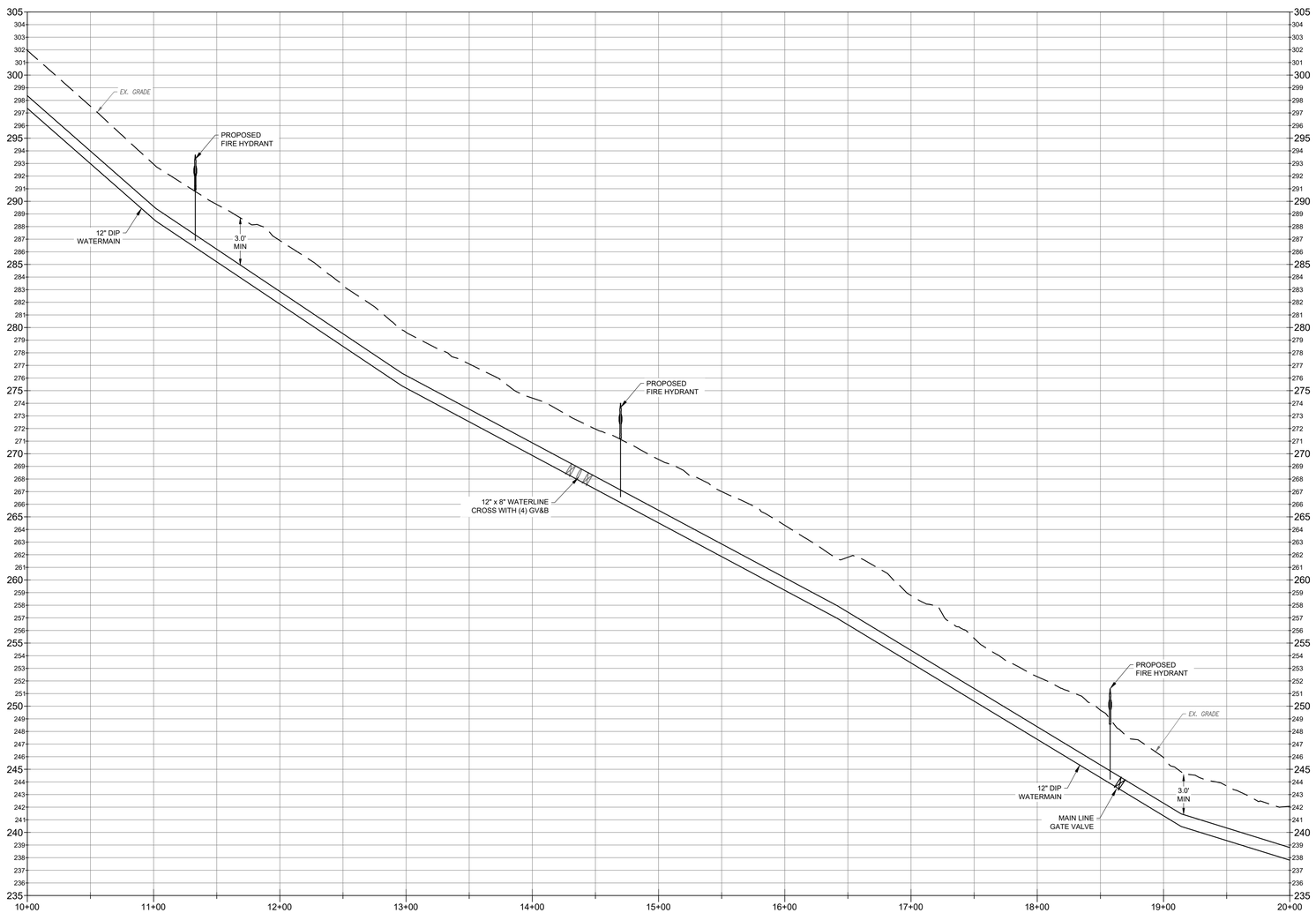
(IN FEET)
1 inch = 50 ft



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

0' 5' 10'
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Public

WATER DISTRIBUTION / EXTENSION SYSTEM

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City of Raleigh
Public Utilities DepartmentPermit # _____

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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

Developer

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

Engineer

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15000 Weston Parkway
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(919) 996-9455

Surveyor

STRONGROCK
THE STRONGROCK COMPANIES

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

Jurisdiction / Municipality

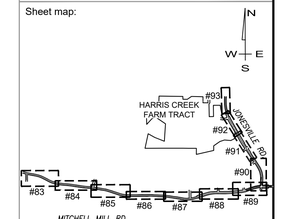
Rolesville
Grow the Community • Capital Connection
Est. 1837

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

CID-25-03 (PSP-24-05)

Other Consultants

Sheet map:



Seal:

NORTH CAROLINA PROFESSIONAL SEAL 53676 ENGINEER BRYAN A. HARRIS

Bryan Harris

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Sheet Title:

JONESVILLE RD WATERLINE 10+00 TO 20+00

Sheet #:

91

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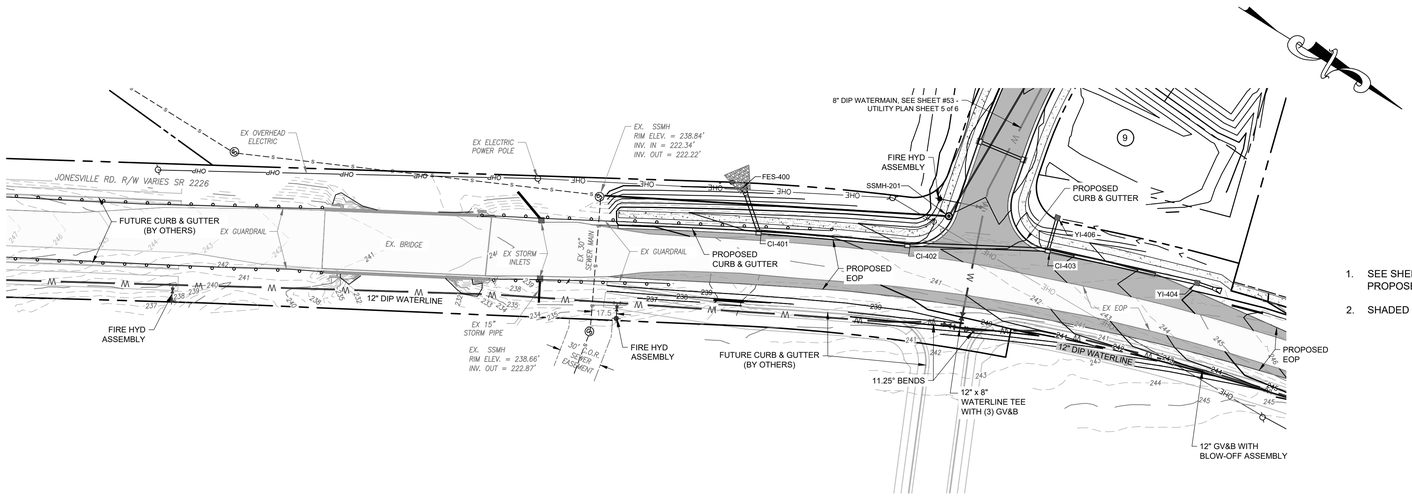
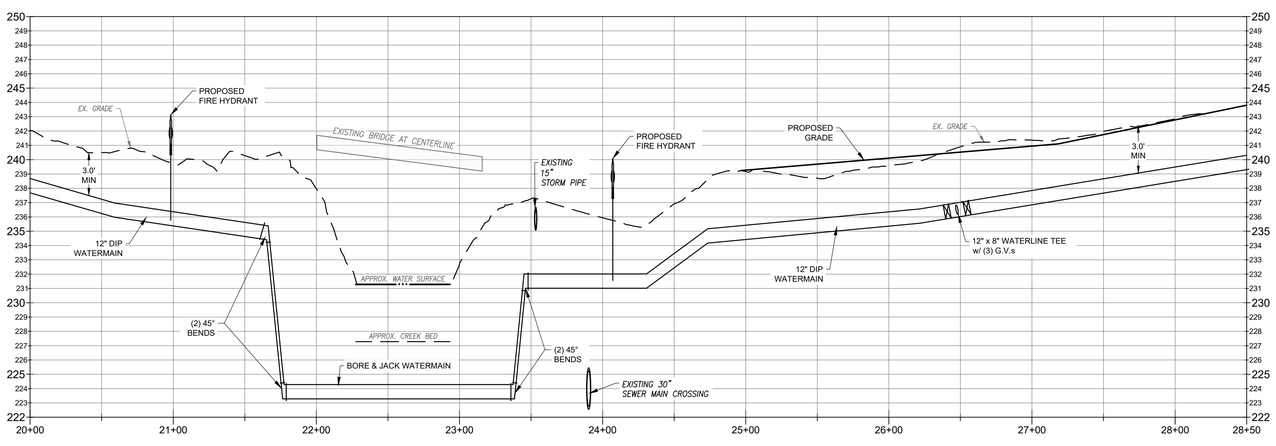


1. SEE SHEET # 74 - JONESVILLE RD EXISTING CONDITION, ROAD WIDEN & STRIPING PLAN FOR PROPOSED HARRIS CREEK PORTION OF JONESVILLE ROAD WIDENING AND STRIPING.
2. SHADED LINEWORK IS FUTURE DEVELOPMENT BY OTHERS

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft



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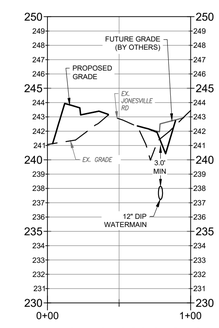

TYPICAL CROSS SECTION

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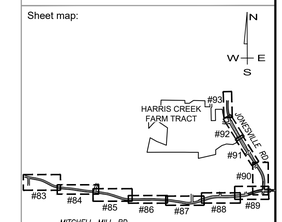

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Sheet Title:
JONESVILLE RD WATERLINE 20+00 TO 30+00

Sheet #:
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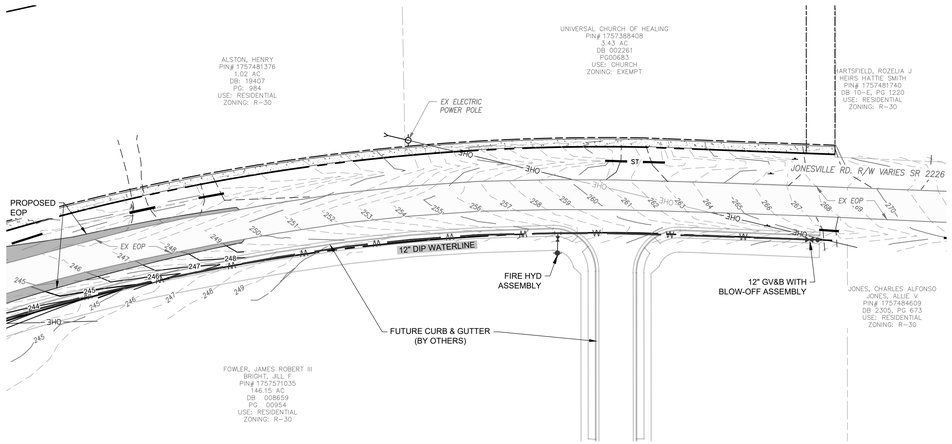

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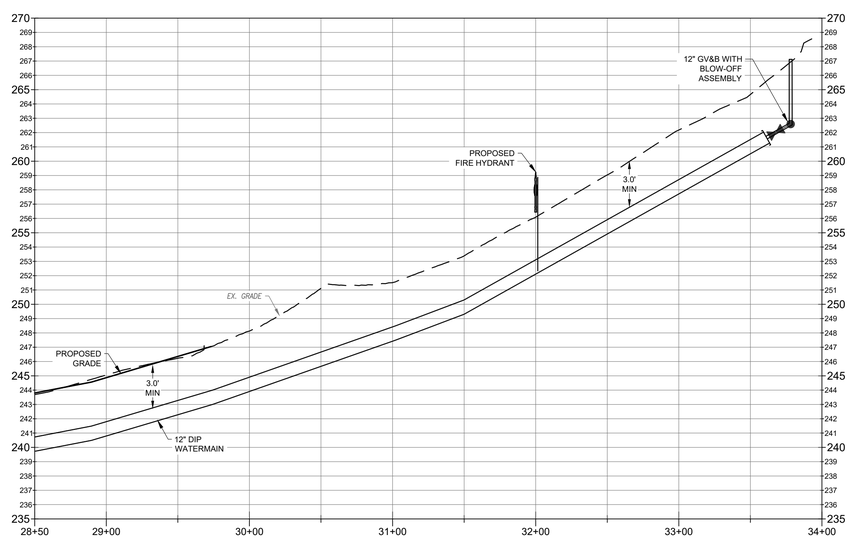

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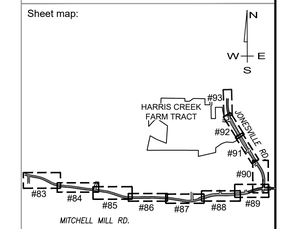

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