

EROSION AND SEDIMENT CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT APPROVED

EROSION CONTROL S-XXXX
 STORMWATER MGMT. S-XXXX
 FLOOD STUDY _____
 DATE xx/xx/20 _____

 ENVIRONMENTAL CONSULTANT SIGNATURE

ACCORDING TO PRIOR AGREEMENT WITH THE CORPUD, THE KALAS FALLS PHASE 3 SUBDIVISION PLANS CAN BE APPROVED WITHOUT THE APPROVAL OF THE HARRIS CREEK SEWER REPLACEMENT PLAN APPROVAL. THE HARRIS CREEK REPLACEMENT WILL BE REQUIRED TO BE DESIGNED AND APPROVED AT THE TIME THE DOWNTOWN SEWER HAS REACHED 65% CAPACITY. THE 65% CAPACITY IS BASED ON THE APPROVED SEWER STUDY FOR THE KALAS FALLS SUBDIVISION WHICH INCLUDES LOTS WITHIN THIS PHASE. NO ADDITIONAL BUILDING PERMITS CAN BE ISSUED WITHIN THIS PHASE ONCE THE HARRIS CREEK SEWER LEG OR LEGS REACH 65% AND UNTIL THE REPLACEMENT DESIGN HAS BEEN APPROVED.

CONSTRUCTION DRAWINGS

FOR KALAS FALLS PHASE 3

CD 21-07

SITUATED AT

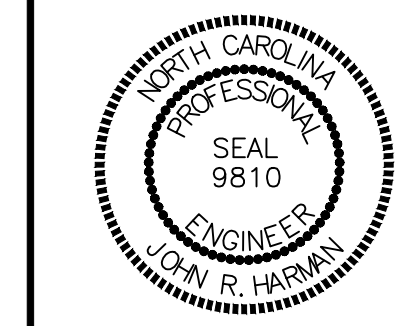
ROLESVILLE ROAD, ROLESVILLE

WAKE COUNTY, NORTH CAROLINA

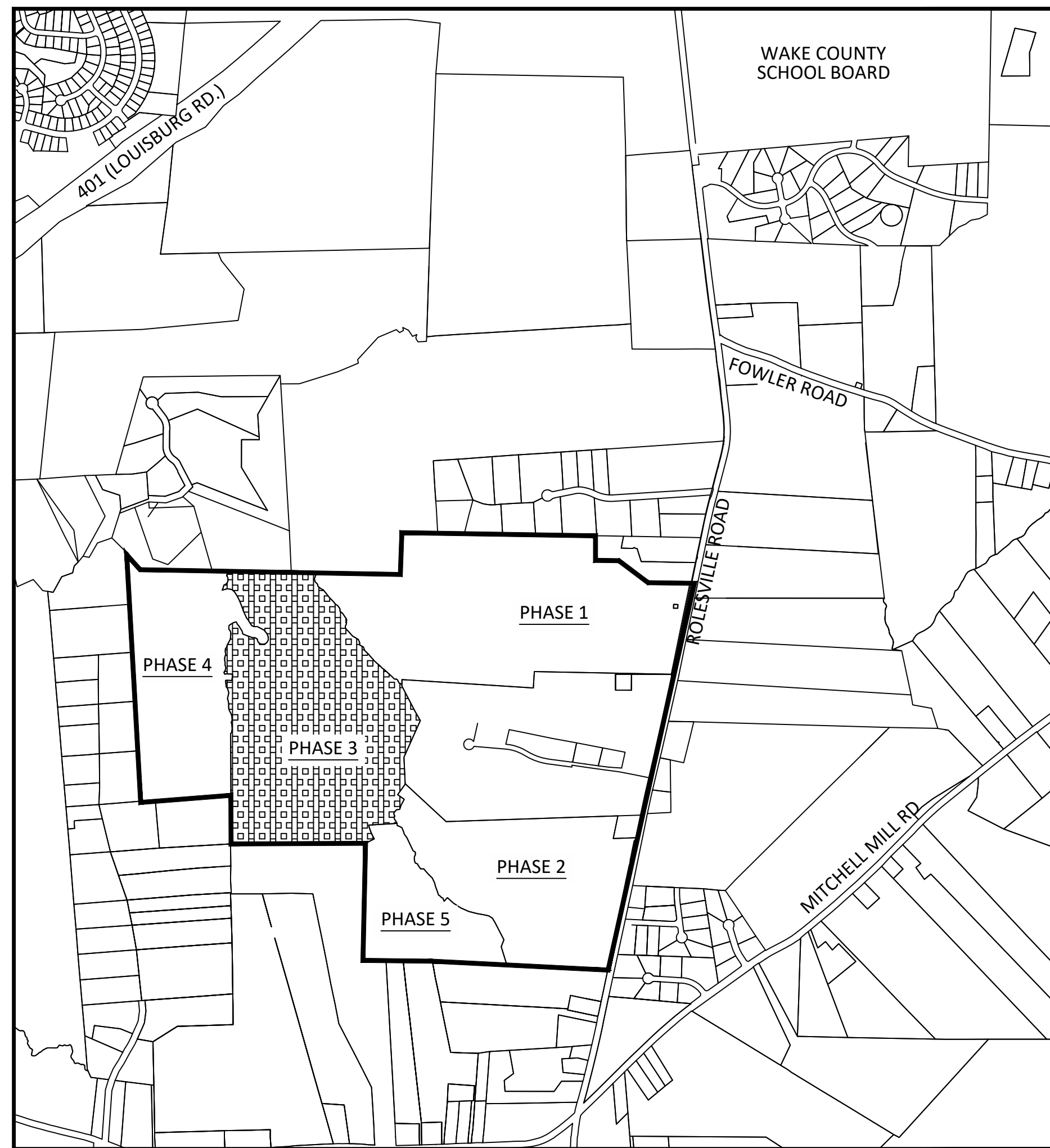
1ST CD SUBMITTAL: 02-19-2021
 2ND CD SUBMITTAL: 08-17-2021
 3RD CD SUBMITTAL: 12-03-2024
 4TH CD SUBMITTAL: 02-03-2025

PROPERTY OWNER:	MITCHELL MILL ROAD INVESTORS LLC CONTACT: KARL BLACKLEY 105 WESTON ESTATES WAY CARY, NC 27513 919-481-3000
DEVELOPER:	MITCHELL MILL ROAD INVESTORS LLC CONTACT: KARL BLACKLEY 105 WESTON ESTATES WAY CARY, NC 27513 919-481-3000
SURVEYOR:	WITHERS RAVENEL CONTACT: MATT TIMBLIN 115 MACKENAN DRIVE CARY, NC 27511 919-469-3340
BUFFER/WETLAND:	WITHERS RAVENEL CONTACT: TROY BEASLEY 115 MACKENAN DRIVE CARY, NC 27511 919-469-3340

SHEET INDEX	
CVR	COVER SHEET
1.0	OVERALL EXISTING CONDITIONS
1.1-1.2	EXISTING CONDITIONS PHASE 3
2.0-2.1	EROSION CONTROL STAGE 1
2.2-2.6	EROSION CONTROL(50 SCALE)
2.7	CULVERT CROSSING DETAILS
3.0	GENERAL NOTES AND LEGENDS
3.1-3.2	SCHEDULE PLAN
4.0	DRAINAGE PLAN OVERALL
4.1-4.5	GRADING & DRAINAGE PHASE 3 (50 SCALE)
4.6	SCM 3B DETAIL
4.7	SCM 3C DETAIL
4.8	SCM 4B DETAIL
4.9	SCM 4C DETAIL
4.10	SCM 4E DETAIL
4.11	SCM 8A DETAIL
5.0	SITE PLAN OVERALL
5.1	SITE PLAN PHASE 3 OVERALL
5.2-5.6	SITE PLAN PHASE 3 (50 SCALE)
6.0	OVERALL UTILITIES PLAN
6.1-6.5	UTILITY SHEET (50 SCALE)
7.0	PLEASANT RUN ST PLAN AND PROFILE
8.0	DIOMERE LANE PLAN AND PROFILE
9.0-9.1	FALLS BLUFF DR PLAN AND PROFILE
10.0	DONNINGTON HILL DR PLAN AND PROFILE
11.0	WOODLYN PARK DR PLAN AND PROFILE
12.0	HARVEST HILL WAY PLAN AND PROFILE
13.0	ELAM FIELD CT PLAN AND PROFILE
14.0	BROOKBANK DR PLAN AND PROFILE
15.0	STAFFORDSHIRE BLUFF ST PLAN AND PROFILE
16.0	GRAYMONT OAKS DRIVE PLAN AND PROFILE
17.0-17.1	OFF STREET STORMWATER PLAN AND PROFILE
18.0	GREEN WAY TRAIL "A" PLAN AND PROFILE
19.0	GREEN WAY TRAIL "B" PLAN AND PROFILE
20.0	SANITARY OUTFALL PLAN AND PROFILES
21.0	TRANSPORTATION PLAN
CD1-CD19	CIVIL DETAILS
L1	LANDSCAPE PLAN
L2	LANDSCAPE DETAILS



NO.	DATE	REVISION
1	7/27/2021	1ST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT,
2	9/14/2024	WAKE COUNTY AND CITY OF RALEIGH CONSULTANT COMMENTS
3	10/07/2024	CONSTRUCTION DRAWING COMMENT RESPONSES



VICINITY MAP
SCALE: 1"=1000'

THESE IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE FOLLOWING DRAWINGS AND THE STANDARD SPECIFICATIONS OF THE TOWN OF ROLESVILLE, THE CITY OF RALEIGH, WAKE COUNTY, AND NCDOT.

PUBLIC IMPROVEMENTS PHASE 3	
PUBLIC WATER (12")	4,230 LF
PUBLIC WATER (8")	5,803 LF
PUBLIC WATER (6")	411 LF
PUBLIC SEWER (8")	8,567 LF
PUBLIC STREETS	10,273 LF
TOTAL NO. OF LOTS	145
LIMITS OF DISTURBANCE	28.04 AC

RALEIGH WATER INSECTIONS QUANTITIES (SUBDIVISIONS AND SITE PLANS)	
PHASE NUMBERS	PHASE 3
NUMBER OF LOT(S)	145
NUMBER OF UNITS	145
PUBLIC WATER (LF)	10417
PUBLIC SEWER (LF)	8,567
PUBLIC FORCE MAIN (LF)	N/A
PRIVATE SEWER* (LF)	N/A
WATER SERVICE STUBS (QUANTITY)	146
SEWER SERVICE STUBS (QUANTITY)	146
AVERAGE DAILY FLOW PER PHASE**	38,325

*Sewer mains and manholes as part of a collection system
 **Entire Project Flow. Based on 75gpd per bedroom for residential (Apartments, single Family dwelling, townhouse, condos), or based on 15A NCAC 02T .0114 Wastewater Design Flow Rates for Commercial and Industrial.
 The meter size must match domestic service size (Exemption - 3/4" service tap with 5/8" meter)

PROJECT NARRATIVE

THIS PROJECT IS LOCATED IN ROLESVILLE, NORTH CAROLINA AT ROLESVILLE ROAD. IT INVOLVES THE COMBINING OF SEPARATELY PROPOSED PROJECTS KNOWN AS KALAS FALLS, ROGERS FARM AND ONE OTHER TRACT KNOWN AS THE WATKINS PROPERTY. IT DRAINS TO TRIBUTARIES OF HARRIS BRANCH WHICH IS PART OF THE NEUSE RIVER BASIN. IT IS ALSO BOUNDED ON ALL SIDES BY MOSTLY UNDEVELOPED LAND. IT IS APPROXIMATELY 0.5 MILES NORTHWEST OF THE INTERSECTION OF MITCHELL MILL ROAD AND ROLESVILLE ROAD IN WAKE COUNTY, NORTH CAROLINA. THE TOTAL AREA OF THE PROJECT IS 282.726 AC(EXCLUDES EXISTING ROW AND CEMETERY).THE CURRENT PHASE IS 79.96 ACRES.

GENERAL NOTES:

- ALL PUBLIC WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL (1-800-632-4949) TO LOCATE ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE EXISTING UTILITIES AND NOTIFY THE PROJECT ENGINEER (919-469-1101) OF ANY CONFLICTS.
- ALL BOUNDARY AND FIELD TOPOGRAPHY PROVIDED BY WITHERS & RAVENEL.

Once design is complete, please email me for the public water and sewer permit numbers and the Raleigh dev fees.

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.

STIPULATION FOR REUSE

THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

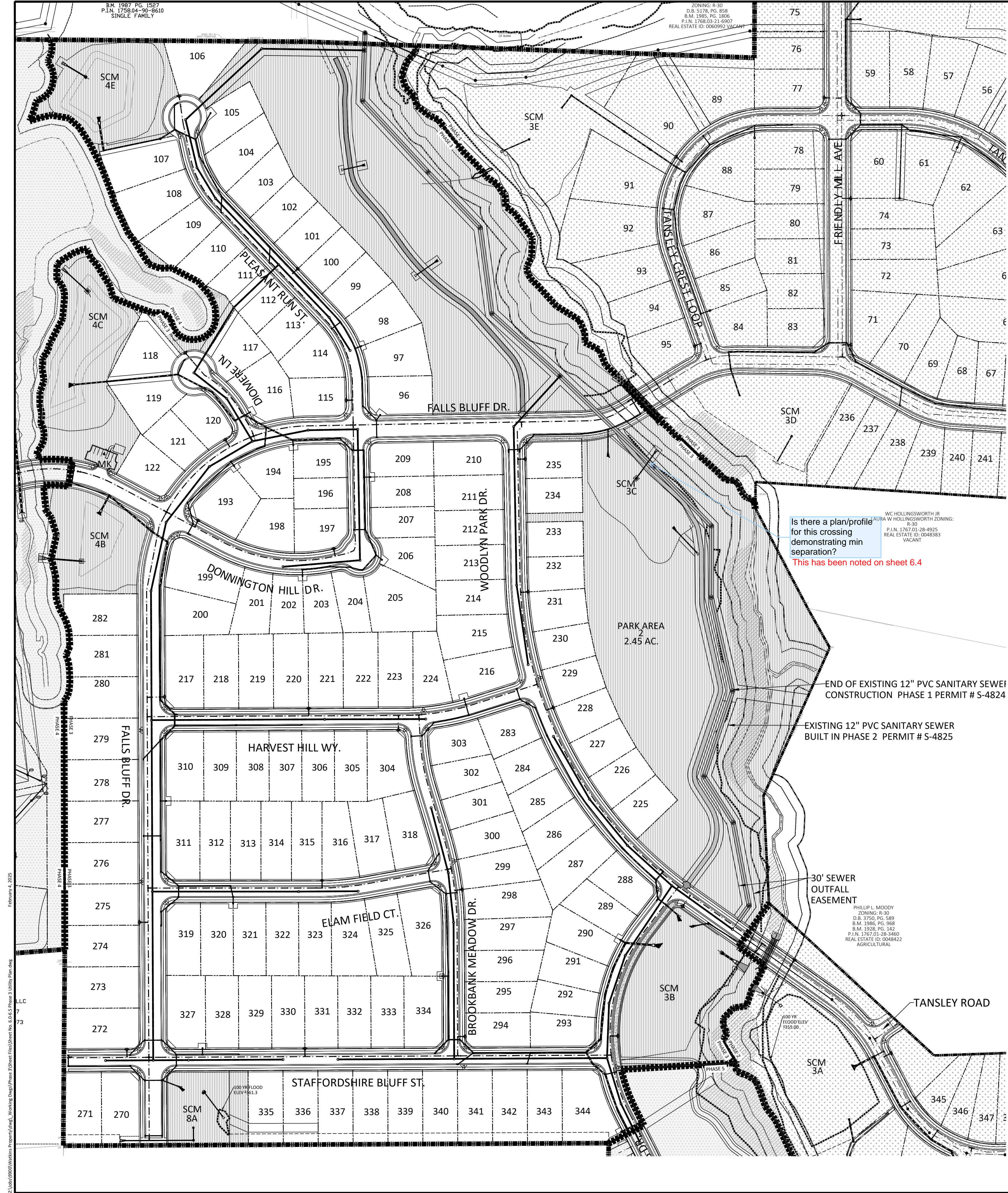
KALAS FALLS PHASE 3
 1832 ROLESVILLE ROAD
 WAKE COUNTY, NC

JOB NUMBER: 9900
 CHECKED BY: BH/JH
 DRAWN BY: SMM/ALL/ES/AH/DH
 DATE: NOV 1, 2024
 SHEET TITLE:

COVER SHEET

SHEET NO.:
CVR

<p>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 Department Permit # _____</p>	<p>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 Department Permit # _____</p>	<p>North Carolina 811 *** 3 Days Before Digging *** North Carolina 811 811 or 1-800-632-4949 Remote Ticket Entry http://nc811.org/remoteticketentry.htm</p>
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Is there a plan/profile for this crossing demonstrating min separation?
 This has been noted on sheet 6.4

NOTE: THE 100 YEAR FLOOD-LINE AS ON THESE PLANS WERE TAKEN FROM THE FLOOD STUDY PREPARED BY DONLAD A SEVER, PE (024627) OF HUGH J. GILLECE, III AND ASSOCIATES, P.A.

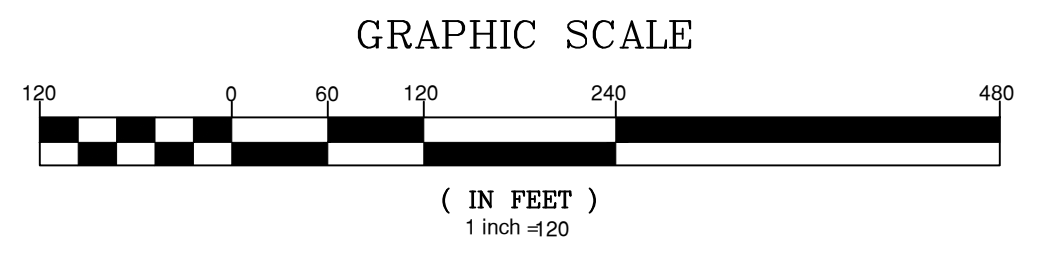
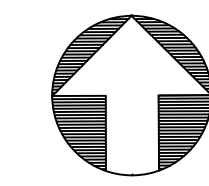
END OF EXISTING 12" PVC SANITARY SEWER CONSTRUCTION PHASE 1 PERMIT # S-4824

EXISTING 12" PVC SANITARY SEWER BUILT IN PHASE 2 PERMIT # S-4825

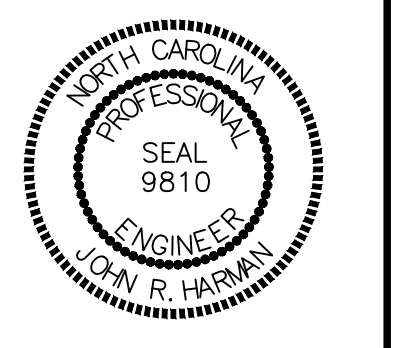
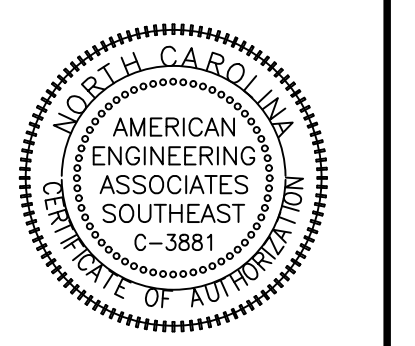
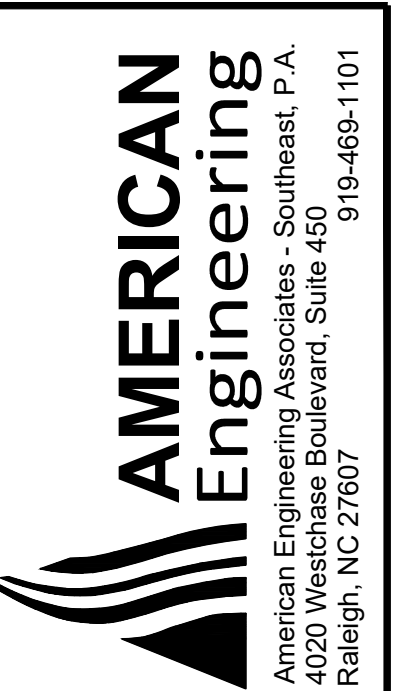
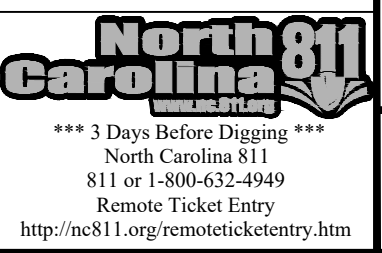
30' SEWER OUTFALL EASEMENT

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UTILITIES LEGEND	
	EXISTING BOUNDARY
	EXISTING 50' NEUSE RIPARIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED EASEMENT
	PHASELINE
	RIP RAP
	BASIN WEIR
	JUNCTION BOX
	PROPOSED CATCH BASIN
	PROPOSED YARD INLET
	PROPOSED DROP INLET
	PROPOSED FLARED END SECTION
	PROPOSED WATER METER
	PROPOSED SEWER SERVICE
	PROPOSED MANHOLE
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE
	PROPOSED WATER REDUCER
	PROPOSED SEWER LINE
	PROPOSED WATER LINE
	PROPOSED STORM WATER
	OPEN SPACE
	FUTURE PHASING
	EXISTING PHASING
	100 YEAR FLOOD EASEMENT



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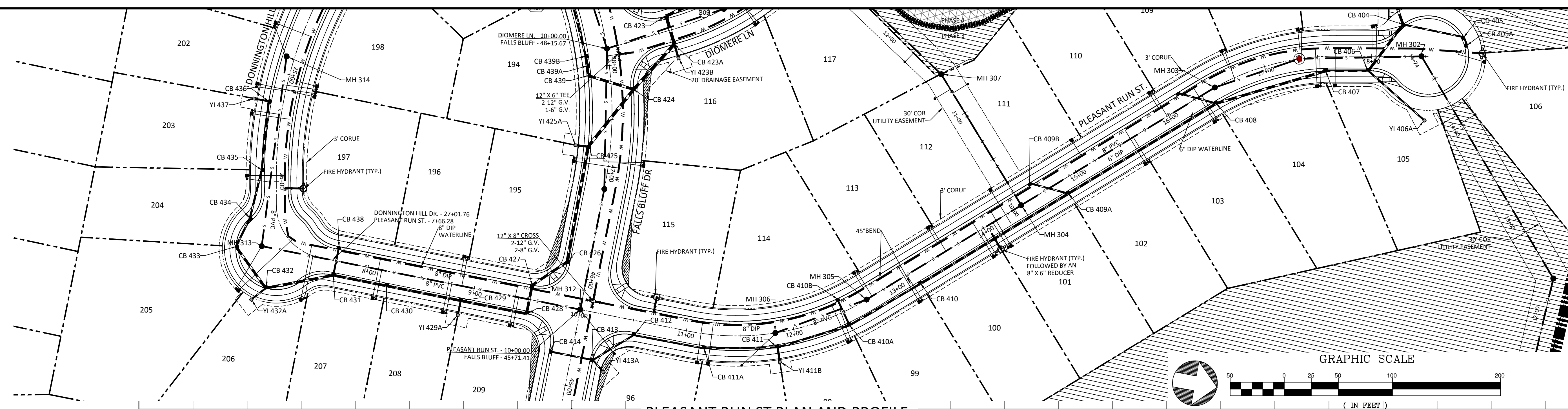


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1	7/27/2021	ISSUE FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH
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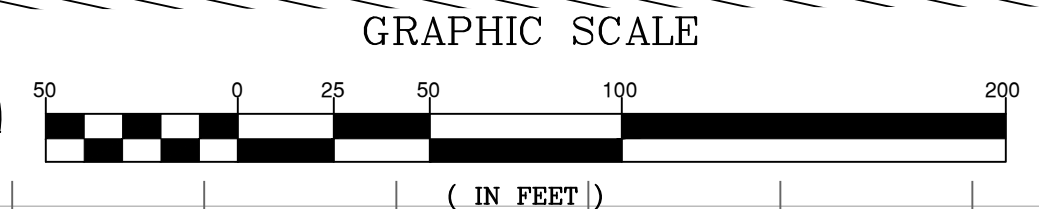
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KALAS FALLS PHASE 3
 1832 ROLESVILLE ROAD
 WAKE COUNTY, NC

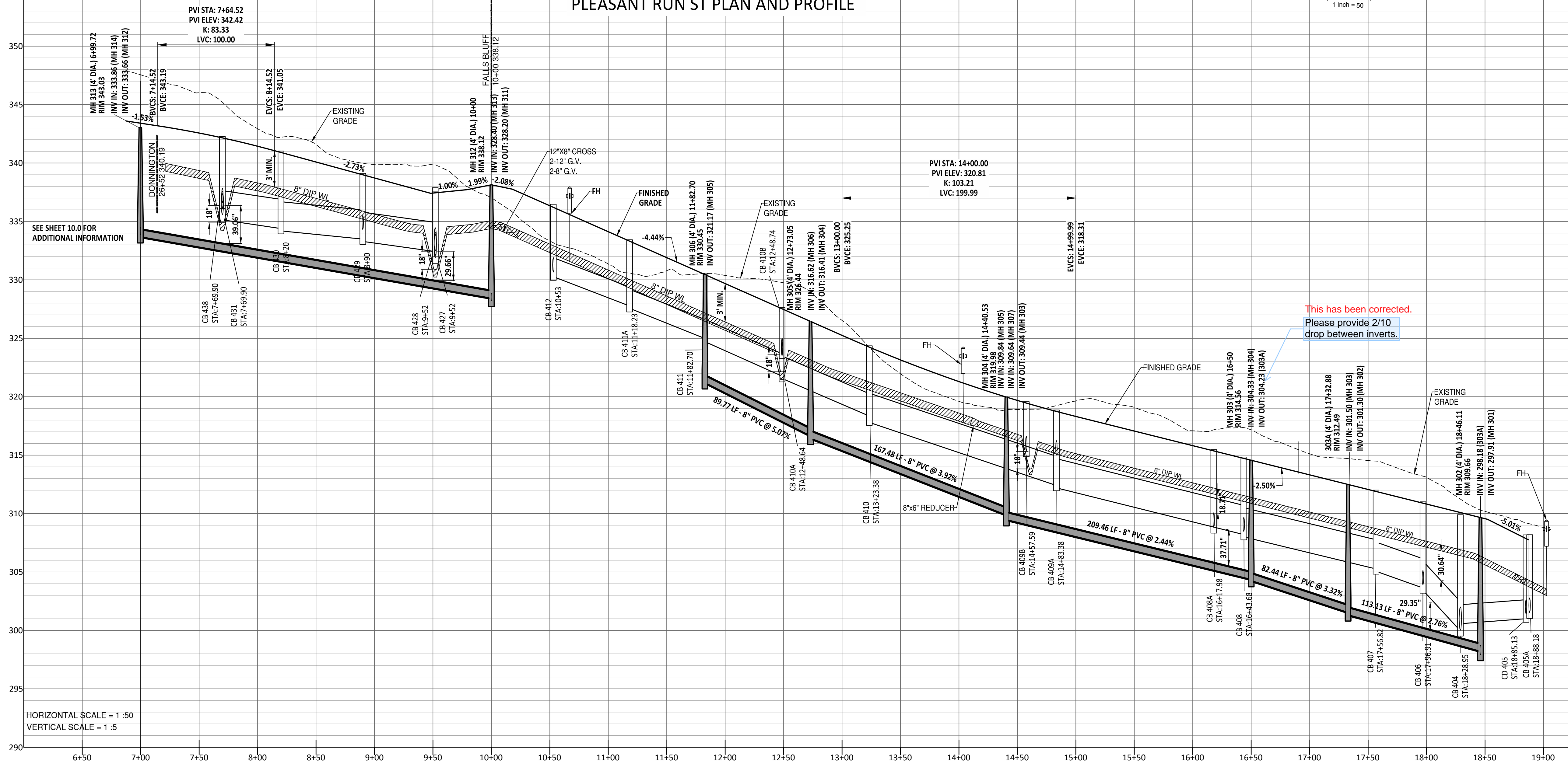
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CHECKED BY:	BH/JH
DRAWN BY:	SMM/M/LES/AH/DH
DATE:	NOV 1, 2024
SHEET TITLE:	PHASE 3 OVERALL UTILITY PLAN
SHEET NO.:	6.0



PLEASANT RUN ST PLAN AND PROFILE



UTILITIES LEGEND	
	EXISTING BOUNDARY
	EXISTING 50' RIPIARIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED EASEMENT
	PHASELINE
	RIP RAP
	BASIN WEIR
	JUNCTION BOX
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	PROPOSED DROP INLET
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	PROPOSED SEWER SERVICE
	PROPOSED MANHOLE
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE
	PROPOSED WATER REDUCER
	PROPOSED SEWER LINE
	PROPOSED WATER LINE
	PROPOSED STORM WATER
	OPEN SPACE
	FUTURE PHASING
	EXISTING PHASING
	100 YEAR FLOOD EASEMENT



This has been corrected.
Please provide 2/10 drop between inverts.

NO.	DATE	REVISION
1	7/27/2024	ISSUED FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH
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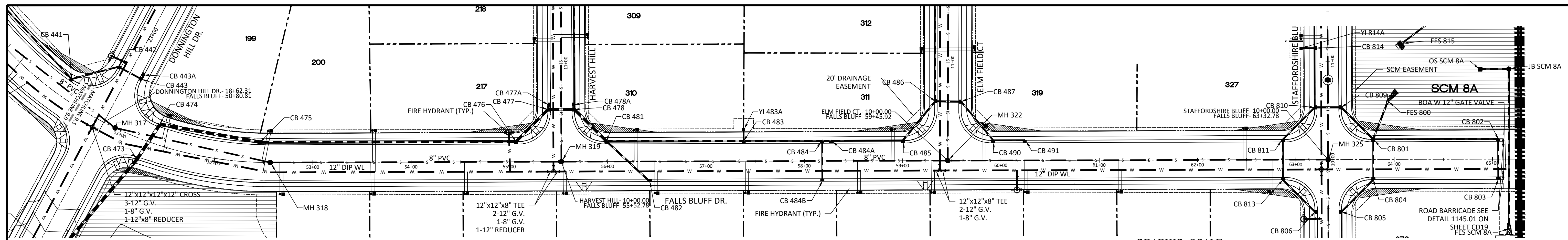
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**KALAS FALLS
PHASE 3
1832 ROLESVILLE ROAD
WAKE COUNTY, NC**

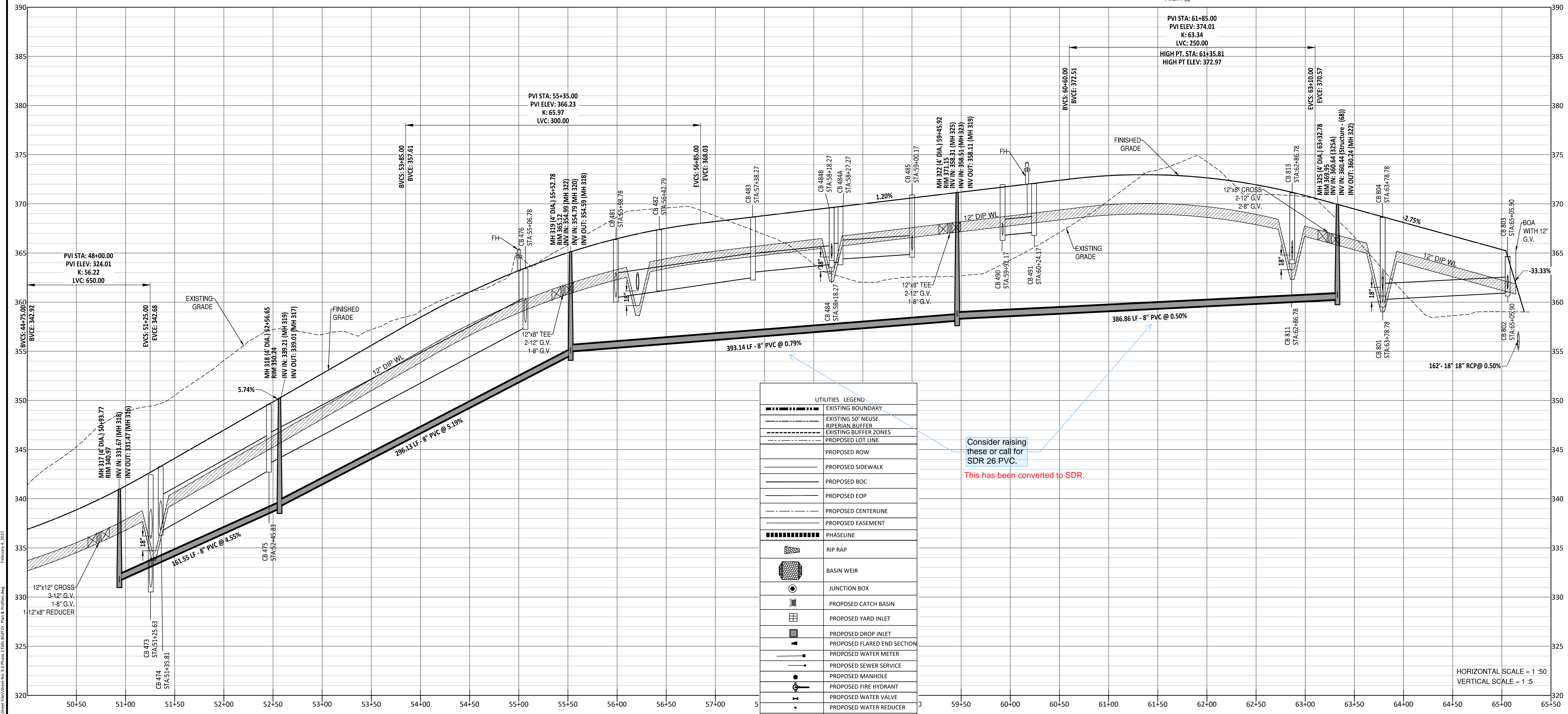
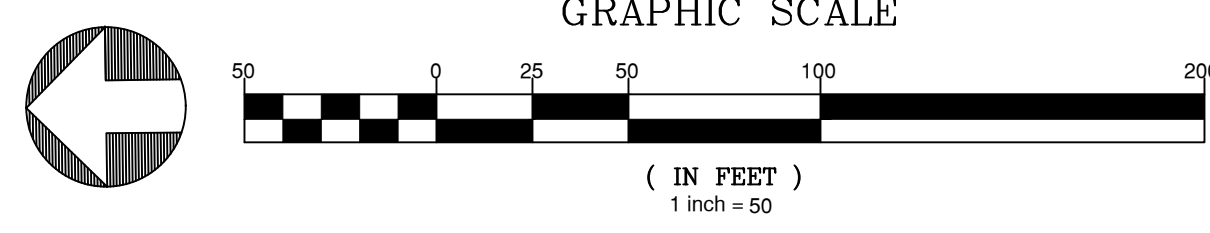
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CHECKED BY: BH/JH
DRAWN BY: SM/MAL/LES/AH/DH
DATE: NOV 1, 2024
SHEET TITLE:
PLEASANT RUN STREET PLAN & PROFILE
SHEET NO.:
7.0

- GENERAL NOTE:**
- ALL WATERLINE AND STORM CROSSINGS SHALL HAVE A MINIMUM OF 1.5' VERTICAL CLEARANCE. IF THIS CANNOT BE ACHIEVED THEN A CRADLE IS TO BE USED SEE DETAIL S-49 ON SHEET CD10
 - TOWN OF ROLESVILLE INSPECTOR WILL HAVE AUTHORITY FOR FINAL APPROVAL ON ROAD PROFILES THAT ARE DESIGNED WITH A CHANGE IN GRADE THAT IS 6% OR GREATER. THE INSPECTOR WILL NEED TO NOTIFY THE DESIGN ENGINEER ON ANY ROAD CONSTRUCTION THAT ARE NOT ACCEPTABLE IN THE FIELD (INCLUDING ALL INTERSECTION GRADES/CURB RETURNS GRADES).
 - PROPOSED CB (SAG'S) NEED TO BE COORDINATED WITH PVI (LOW POINTS) FOR GRADE.

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FALLS BLUFF DR PLAN AND PROFILE



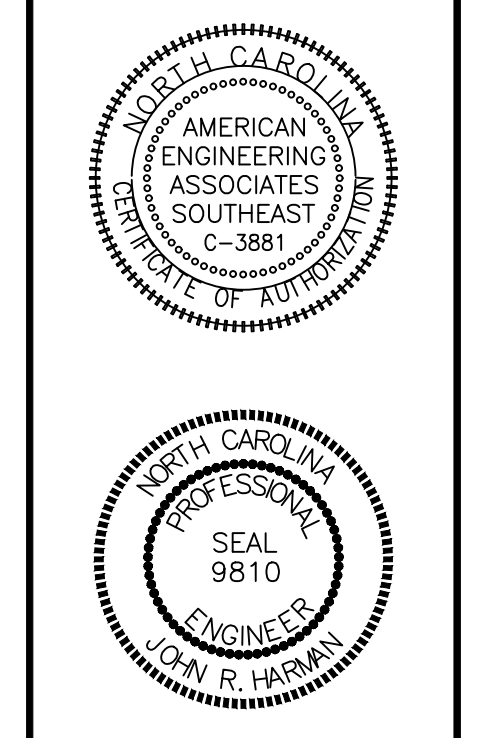
UTILITIES LEGEND	
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[Symbol]	EXISTING 50' NEUSE RIVERIAN BUFFER
[Symbol]	EXISTING BUFFER ZONES
[Symbol]	PROPOSED LOT LINE
[Symbol]	PROPOSED ROW
[Symbol]	PROPOSED SIDWALK
[Symbol]	PROPOSED BOC
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[Symbol]	PROPOSED STORM WATER
[Symbol]	OPEN SPACE
[Symbol]	FUTURE PHASING
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[Symbol]	100 YEAR FLOOD EASEMENT

Consider raising these or call for SDR 26 PVC.
This has been converted to SDR.

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Public Sewer Collection / Extension System
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City of Raleigh
Public Utilities Department Permit # _____

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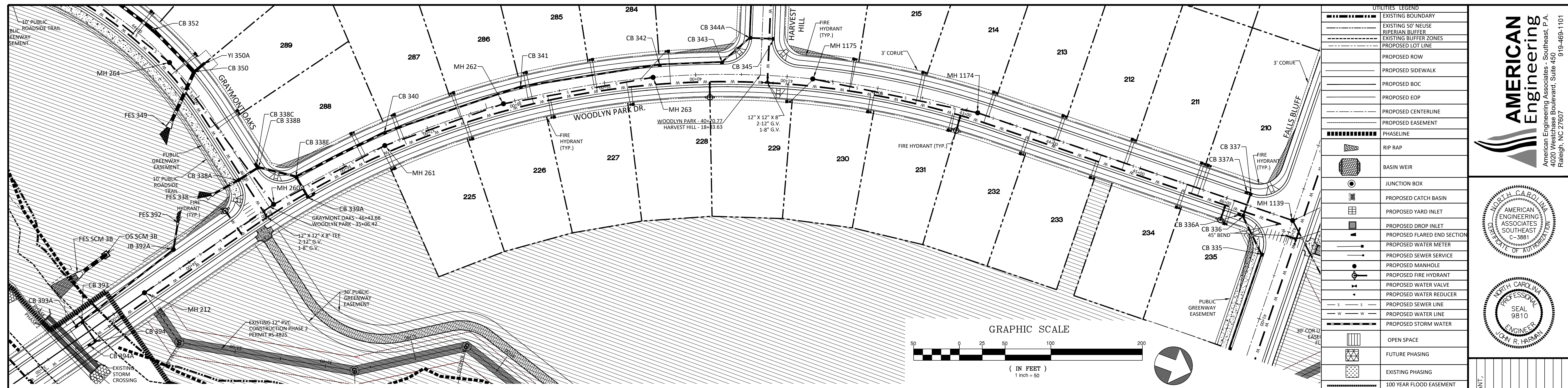
KALAS FALLS PHASE 3
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JOB NUMBER: 9900
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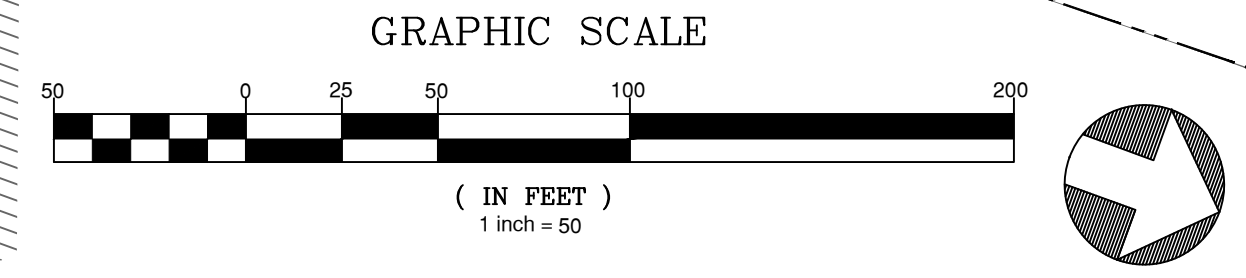
FALLS BLUFF DRIVE PLAN & PROFILE

SHEET NO.: 9.1

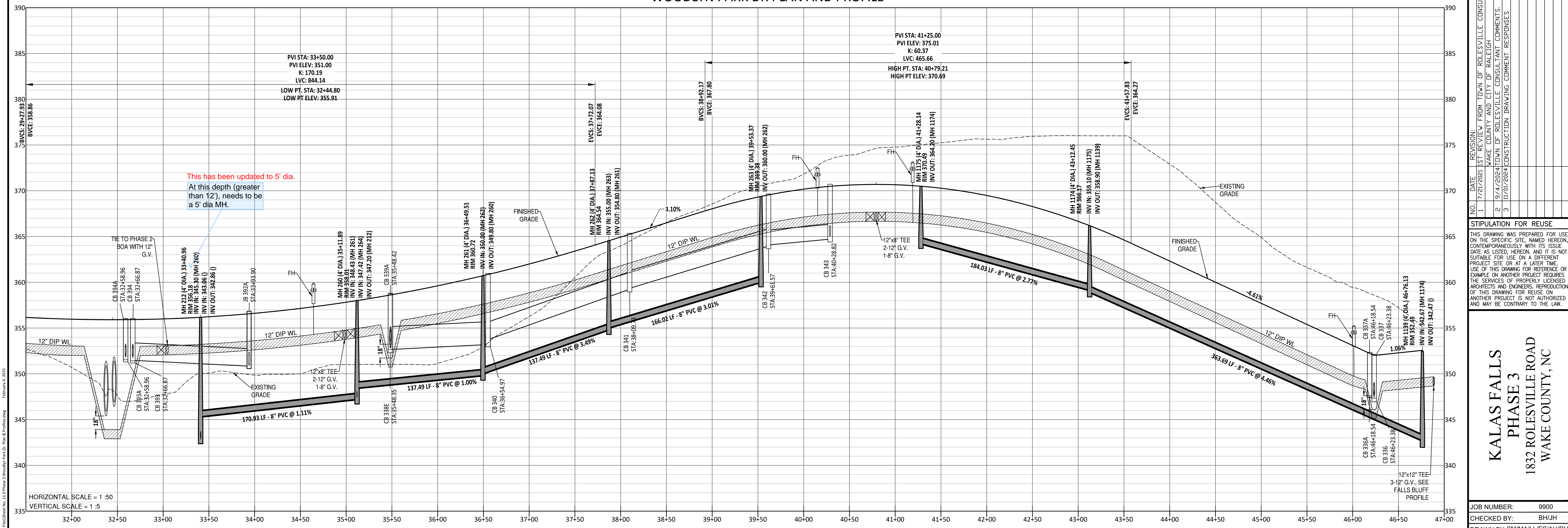
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Figure 4. 2025



UTILITIES LEGEND	
	EXISTING BOUNDARY
	EXISTING 50' NEUSE RIPARIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
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	PROPOSED CENTERLINE
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	PROPOSED WATER LINE
	PROPOSED STORM WATER
	OPEN SPACE
	FUTURE PHASING
	EXISTING PHASING
	100 YEAR FLOOD EASEMENT



WOODLYN PARK DR PLAN AND PROFILE



This has been updated to 5' dia.
At this depth (greater than 12'), needs to be a 5' dia MH.

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 - PROPOSED CB (SAG'S) NEED TO BE COORDINATED WITH PVI (LOW POINTS) FOR GRADE.

Public Sewer Collection / Extension System	Public Water Distribution / Extension System
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City of Raleigh Public Utilities Department Permit # _____	City of Raleigh Public Utilities Department Permit # _____

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 9810
LION R. HARRIS

NO.	DATE	REVISION
1	7/27/2021	ISSUE FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH
2	9/4/2023	TOWN OF ROLESVILLE CONSULTANT COMMENTS
3	11/07/2023	CONSTRUCTION DRAWING COMMENT RESPONSES

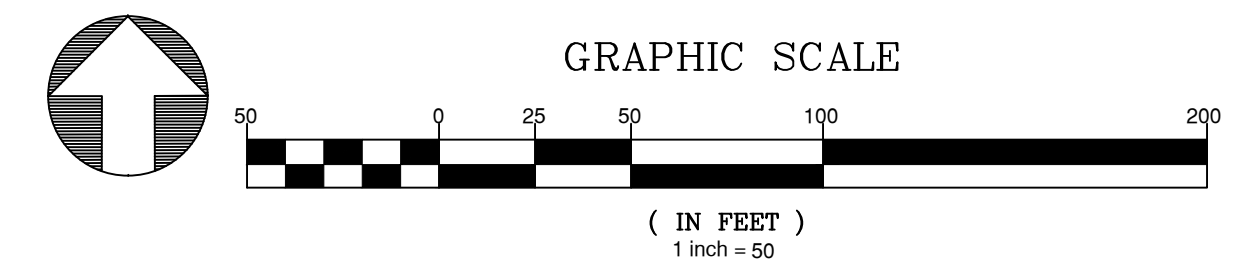
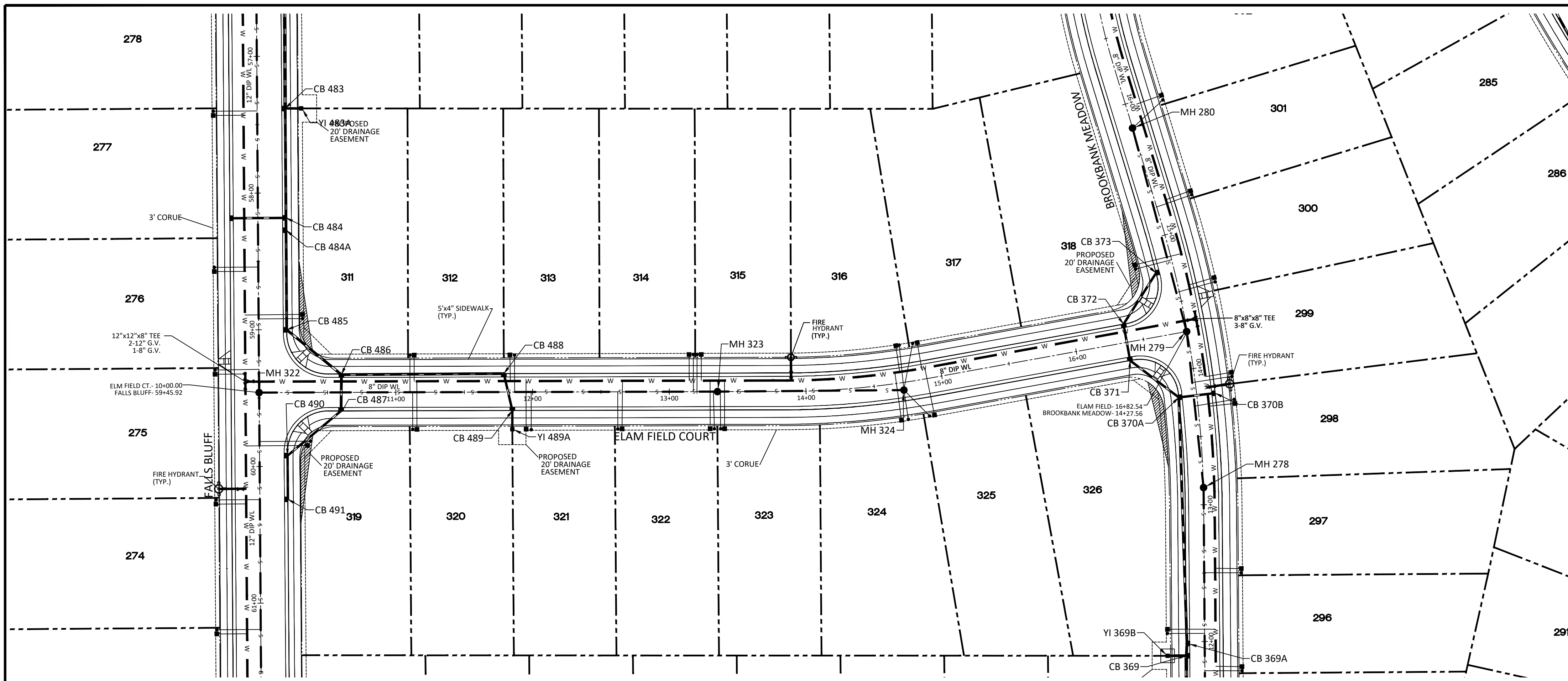
STIPULATION FOR REUSE
THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

KALAS FALLS PHASE 3
1832 ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 9900
CHECKED BY: BH/JH
DRAWN BY: SMM/MAL/ES/AH/DH
DATE: NOV 1, 2024

WOODLYN PARK DRIVE PLAN & PROFILE

SHEET TITLE:
SHEET NO.: 11.0



ELAM FIELD CT PLAN AND PROFILE

UTILITIES LEGEND	
--- ---	EXISTING BOUNDARY
- - - - -	EXISTING 50' NEUSE RIVERIAN BUFFER
- - - - -	EXISTING BUFFER ZONES
- - - - -	PROPOSED LOT LINE
---	PROPOSED ROW
---	PROPOSED SIDEWALK
---	PROPOSED BOC
---	PROPOSED EOP
---	PROPOSED CENTERLINE
---	PROPOSED EASEMENT
-----	PHASELINE
██	RIP RAP
⊙	BASIN WEIR
⊙	JUNCTION BOX
☐	PROPOSED CATCH BASIN
☐	PROPOSED YARD INLET
☐	PROPOSED DROP INLET
☐	PROPOSED FLARED END SECTION
☐	PROPOSED WATER METER
☐	PROPOSED SEWER SERVICE
☐	PROPOSED MANHOLE
☐	PROPOSED FIRE HYDRANT
☐	PROPOSED WATER VALVE
☐	PROPOSED WATER REDUCER
s - s	PROPOSED SEWER LINE
w - w	PROPOSED WATER LINE
--- ---	PROPOSED STORM WATER
□	OPEN SPACE
▨	FUTURE PHASING
▤	EXISTING PHASING
-----	100 YEAR FLOOD EASEMENT

NO.	DATE	REVISION
1	7/27/2024	ISSUE FOR REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH
2	9/4/2024	REVISIONS TO CONSTRUCTION COMMENTS
3	11/20/2024	CONSTRUCTION DRAWING COMMENT RESPONSES

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STIPULATION FOR REUSE

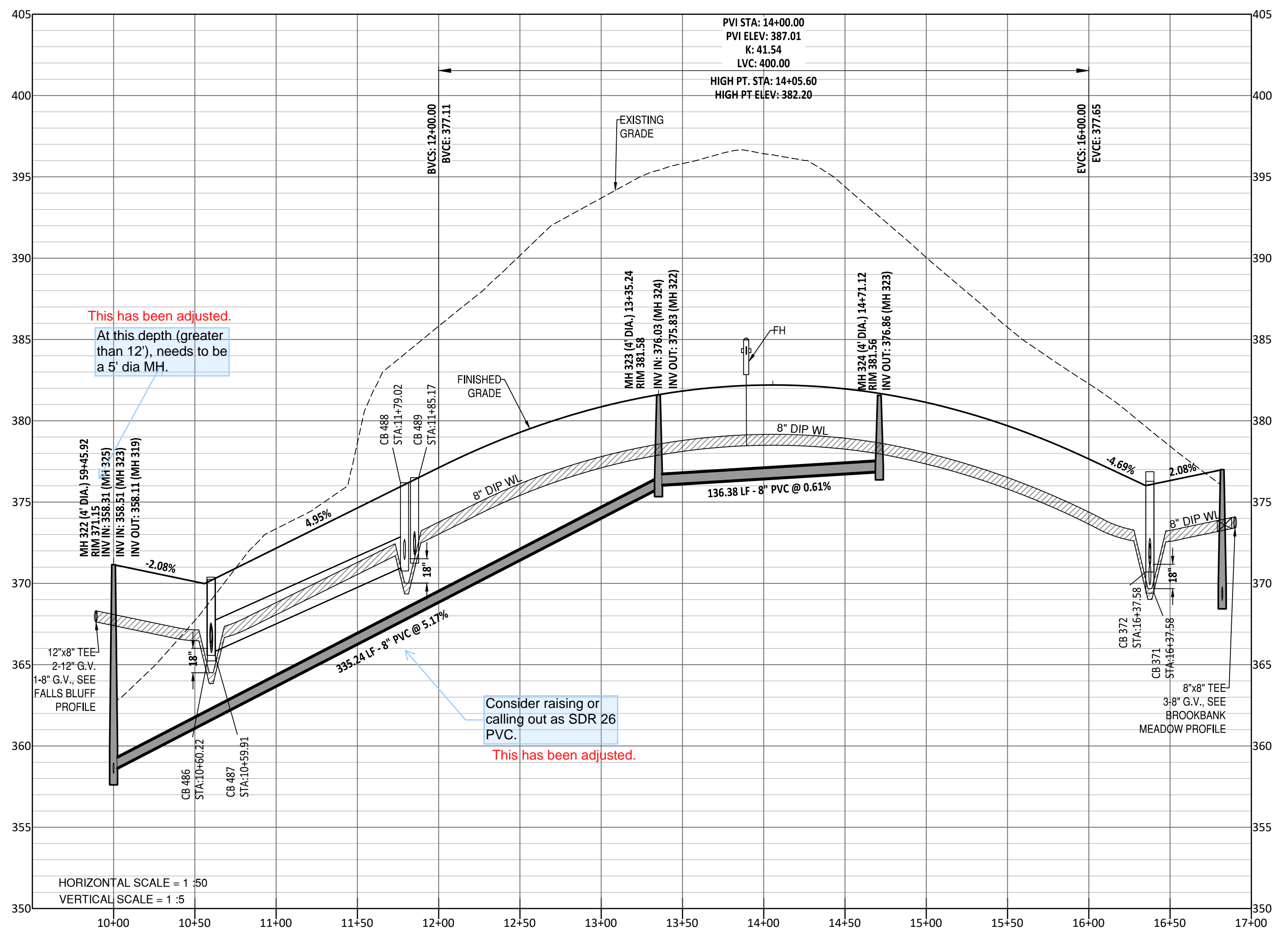
THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

KALAS FALLS PHASE 3
 1832 ROLESVILLE ROAD
 WAKE COUNTY, NC

JOB NUMBER: 9900
 CHECKED BY: BH/JH
 DRAWN BY: SM/MAL/ES/AH/DH
 DATE: NOV 1, 2024

ELAM FIELD CT. PLAN & PROFILE

SHEET NO.: 13.0



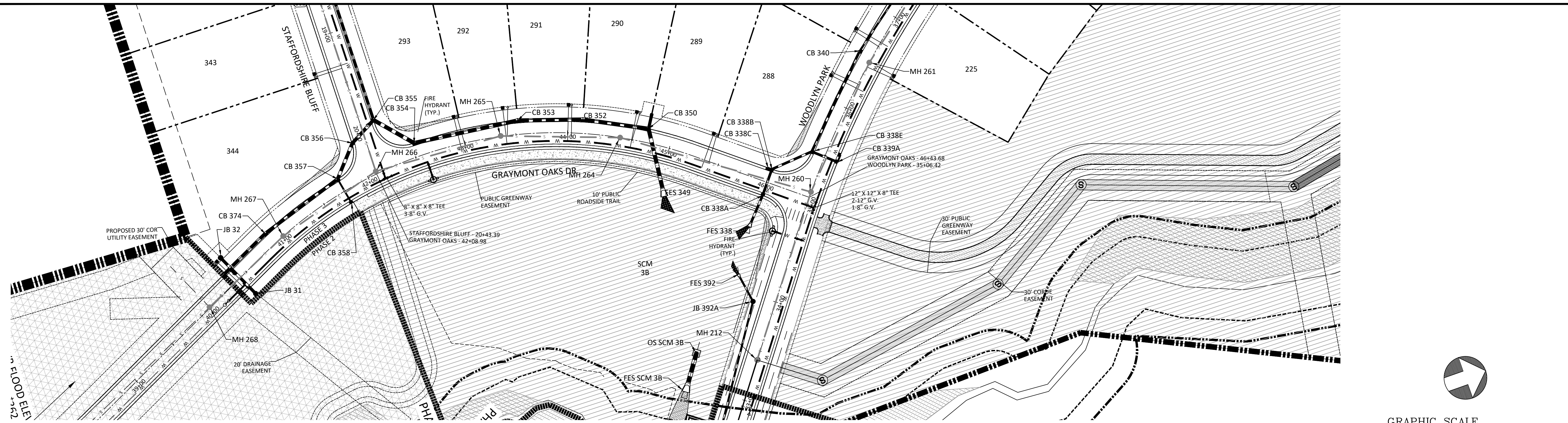
This has been adjusted. At this depth (greater than 12'), needs to be a 5' dia MH.

Consider raising or calling out as SDR 26 PVC. This has been adjusted.

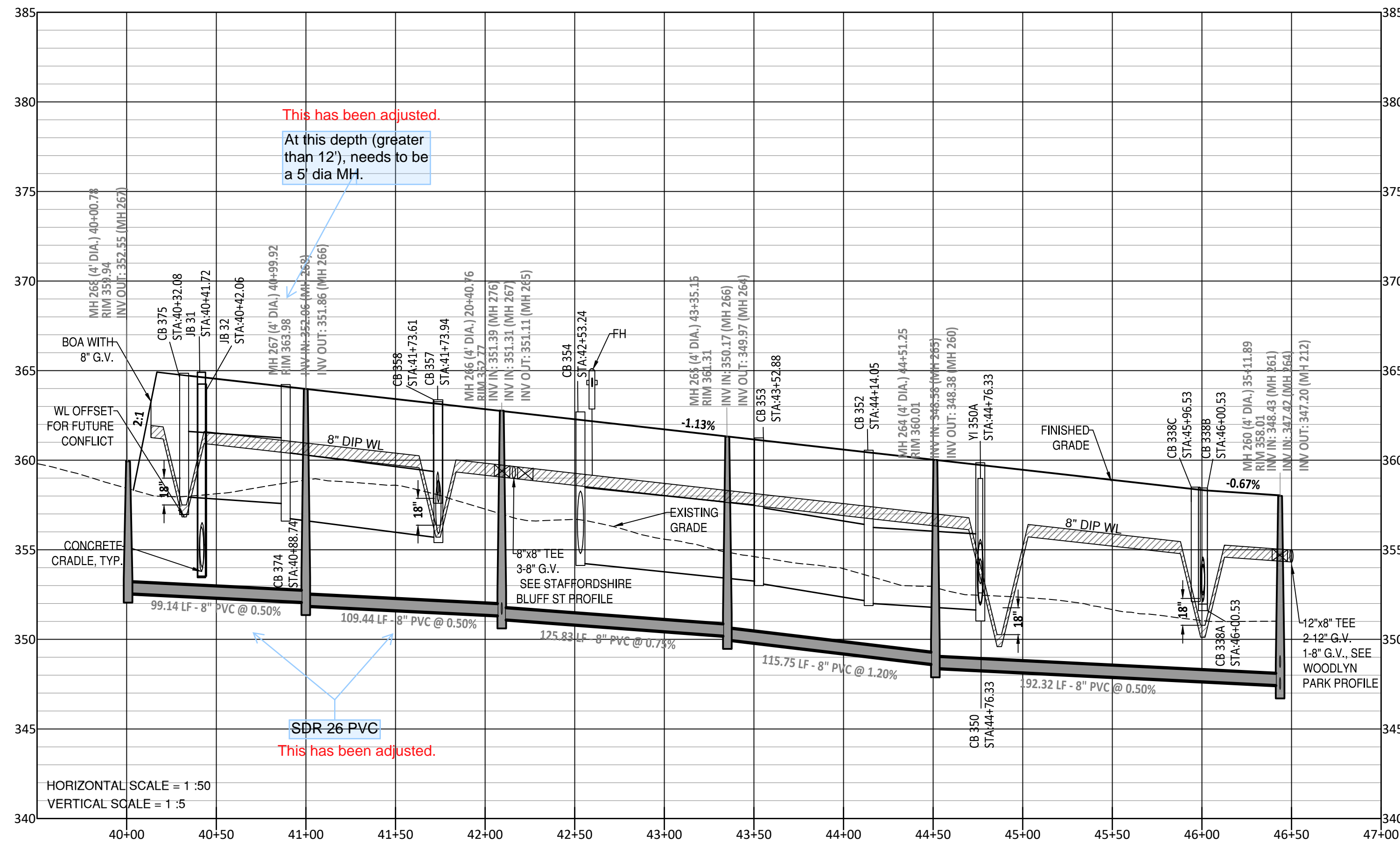
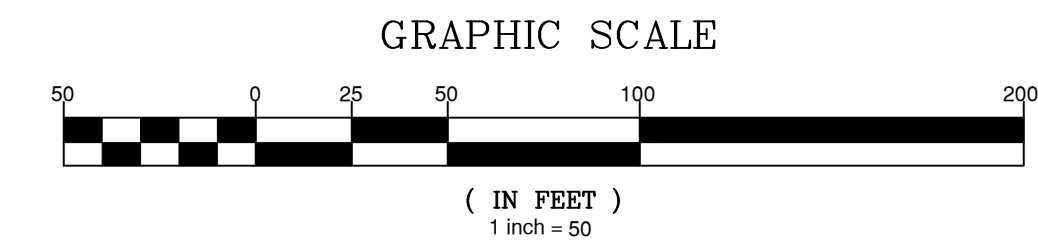
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<p>Public Sewer Collection / Extension System</p> <p>The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.</p> <p>City of Raleigh Public Utilities Department Permit # _____</p>	<p>Public Water Distribution / Extension System</p> <p>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.</p> <p>City of Raleigh Public Utilities Department Permit # _____</p>
---	---

*** 3 Days Before Digging ***
 North Carolina 811
 811 or 1-800-632-4949
 Remote Ticket Entry
<http://nc811.org/remoteticketentry.htm>



GRAYMONT OAKS DR PLAN AND PROFILE



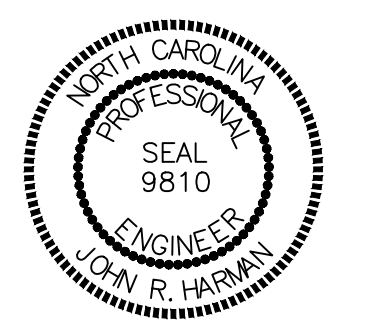
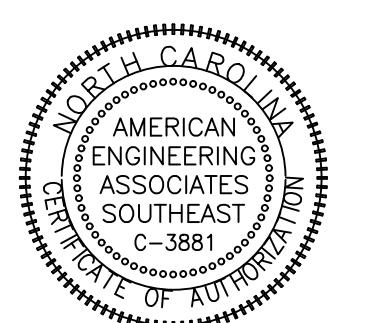
UTILITIES LEGEND	
	EXISTING BOUNDARY
	EXISTING 50' NEUSE RIPARIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
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	RIP RAP
	BASIN WEIR
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	PROPOSED CATCH BASIN
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	PROPOSED WATER VALVE
	PROPOSED WATER REDUCER
	PROPOSED SEWER LINE
	PROPOSED WATER LINE
	PROPOSED STORM WATER
	OPEN SPACE
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NOTE: THE 100 YEAR FLOOD-LINE AS ON THESE PLANS WERE TAKEN FROM THE FLOOD STUDY PREPARED BY DONLAD A SEVER, PE (024627) OF HUGH J. GILLECE, III AND ASSOCIATES, P.A.

Public Sewer Collection / Extension System <small>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.</small> City of Raleigh Public Utilities Department Permit # _____	Public Water Distribution / Extension System <small>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.</small> City of Raleigh Public Utilities Department Permit # _____	 <small>*** 3 Days Before Digging *** North Carolina 811 811 or 1-800-632-4949 Remote Ticket Entry http://nc811.org/remotetickeentry.htm</small>
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AMERICAN Engineering
 American Engineering Associates - Southeast, P.A.
 4020 Westchase Boulevard, Suite 450
 Raleigh, NC 27607
 919-469-1101



NO.	DATE	REVISION
1	7/27/2021	AS REVIEWED FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH
2	9/14/2024	TOWN OF ROLESVILLE CONSULTANT COMMENTS
3	11/07/2024	CONSTRUCTION DRAWING COMMENT RESPONSES

STIPULATION FOR REUSE
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KALAS FALLS
PHASE 3
1832 ROLESVILLE ROAD
WAKE COUNTY, NC

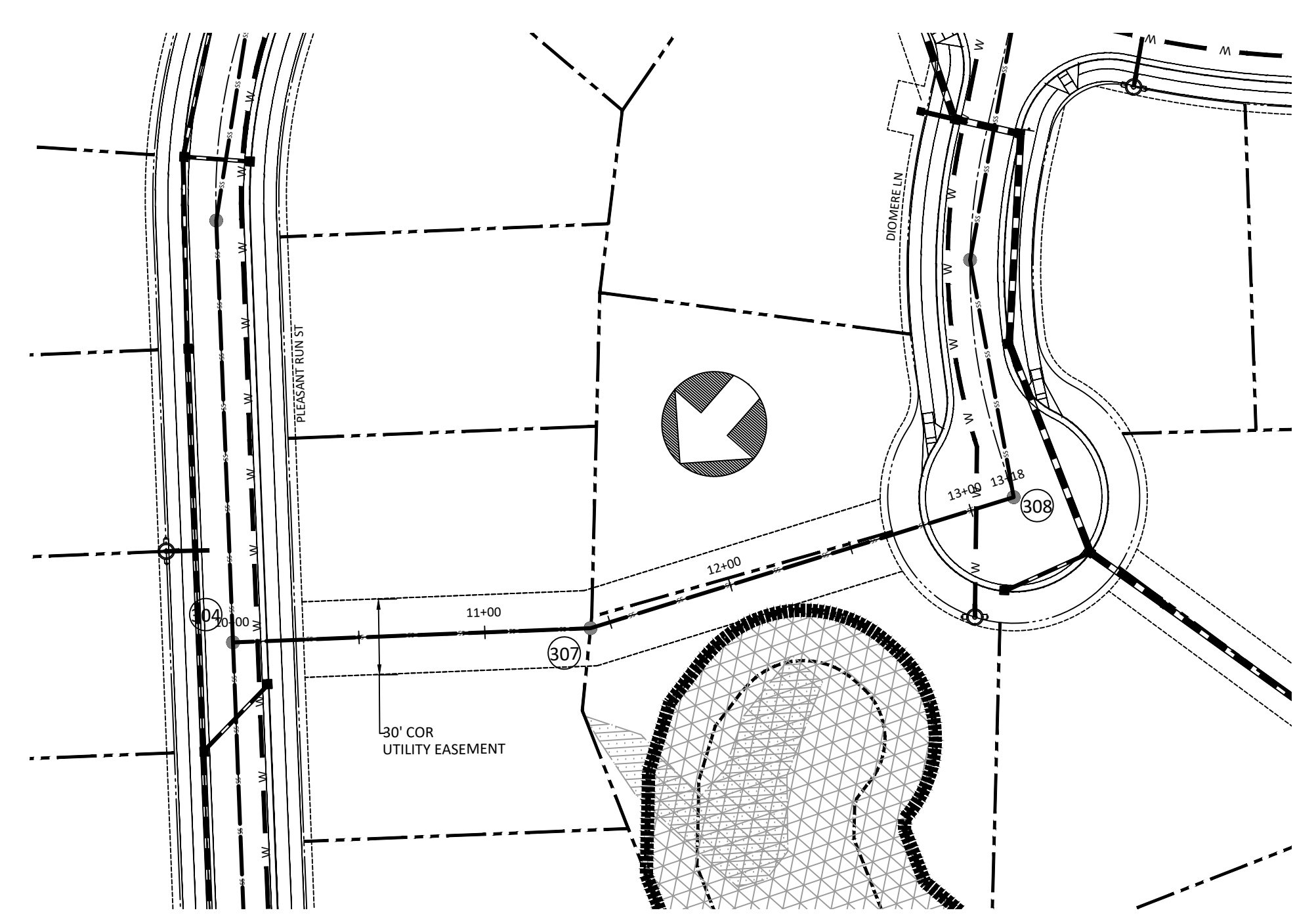
JOB NUMBER: 9900
 CHECKED BY: BH/JH
 DRAWN BY: SM/MALL/ESA/HDH
 DATE: NOV 1, 2024
 SHEET TITLE:
GRAYMONT OAKS DRIVE
PLAN & PROFILE
 SHEET NO.: 16.0

NO.	DATE	REVISION

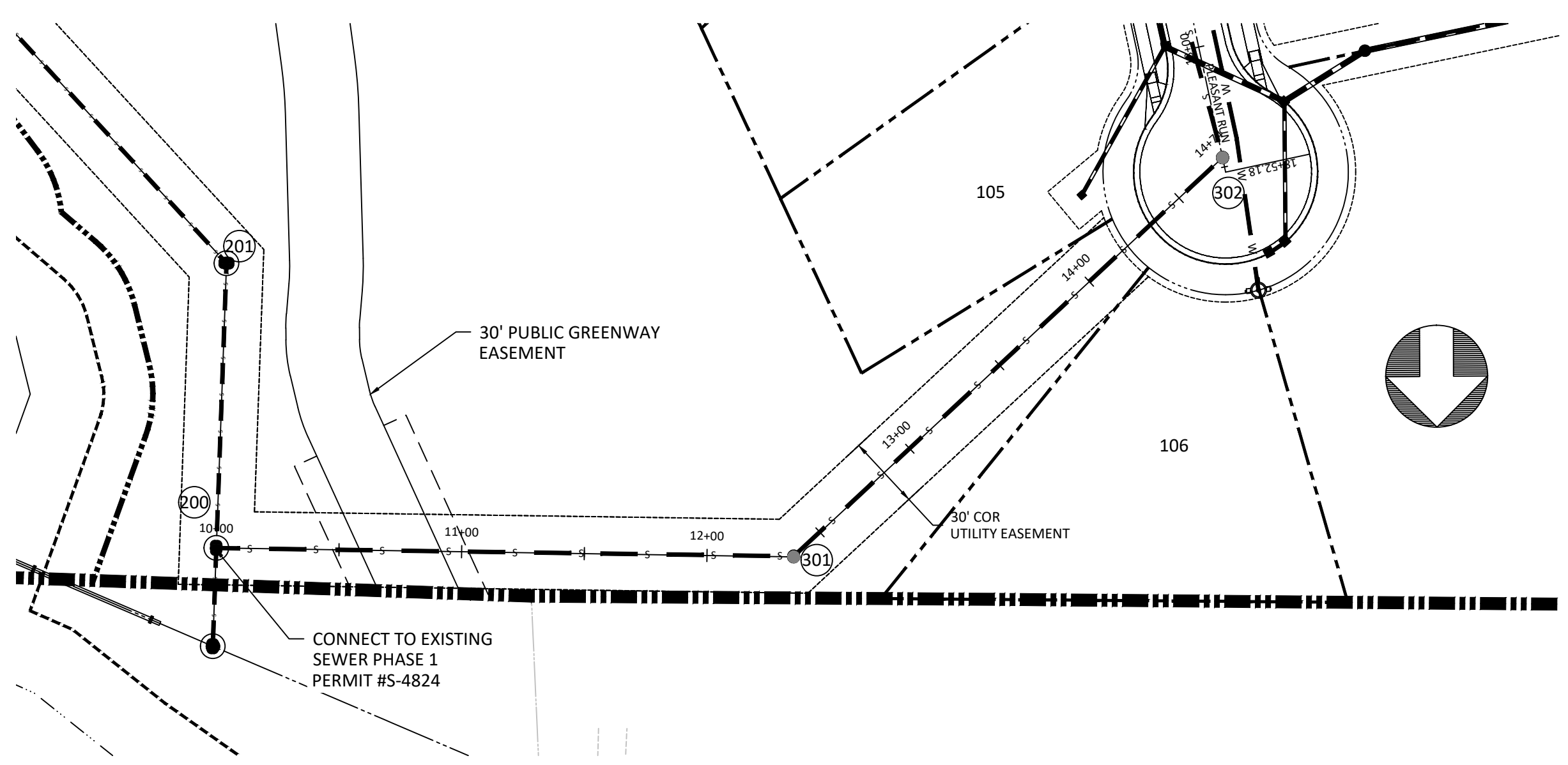
STIPULATION FOR REUSE
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KALAS FALLS PHASE 3
 1832 ROLESVILLE ROAD
 WAKE COUNTY, NC

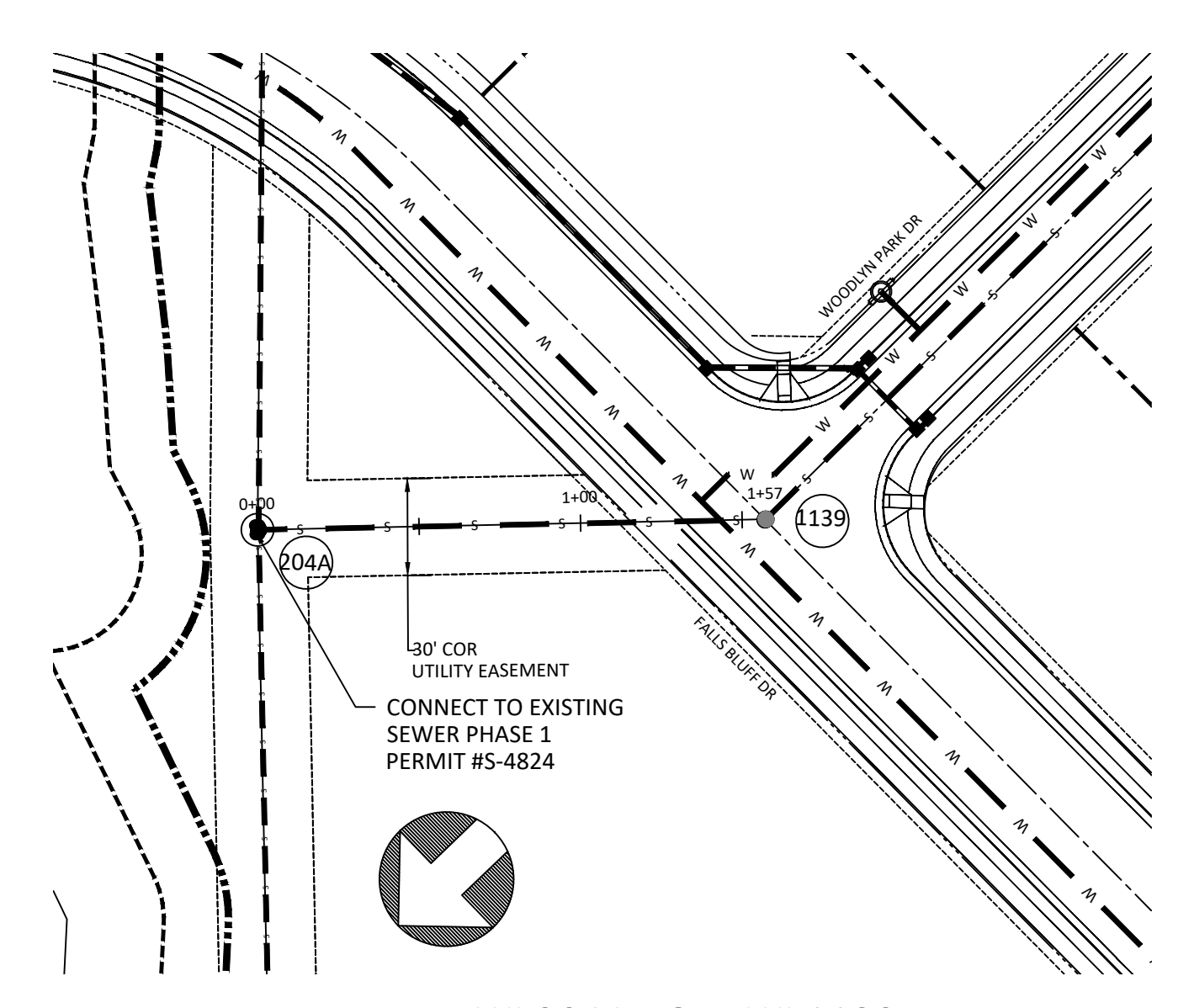
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 CHECKED BY: BH/JH
 DRAWN BY: SM/MALL/ES/AH/DH
 DATE: NOV 1, 2024
 SHEET TITLE:
SANITARY OUTFALL PLAN AND PROFILE
 SHEET NO.: **20.0**



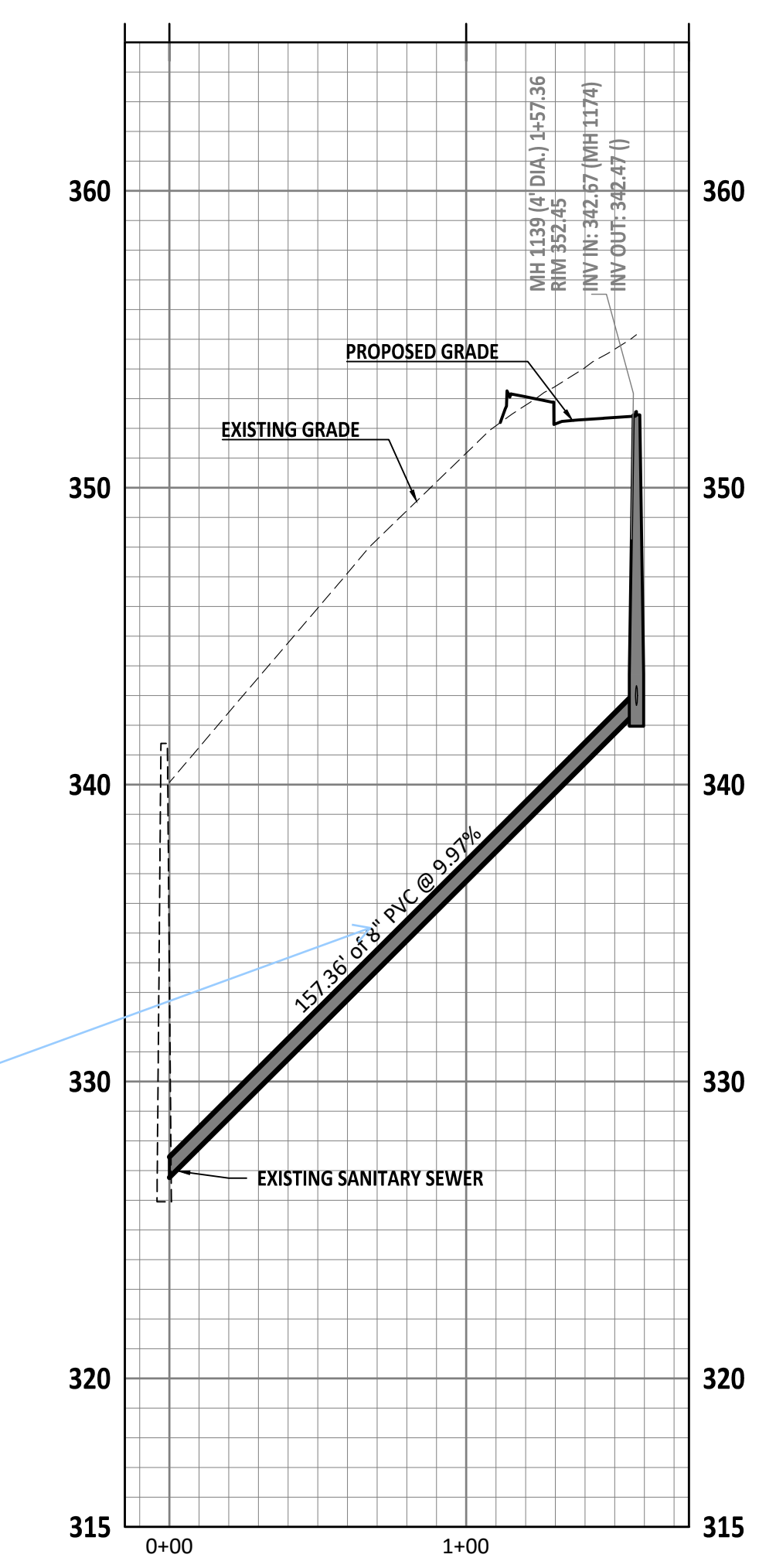
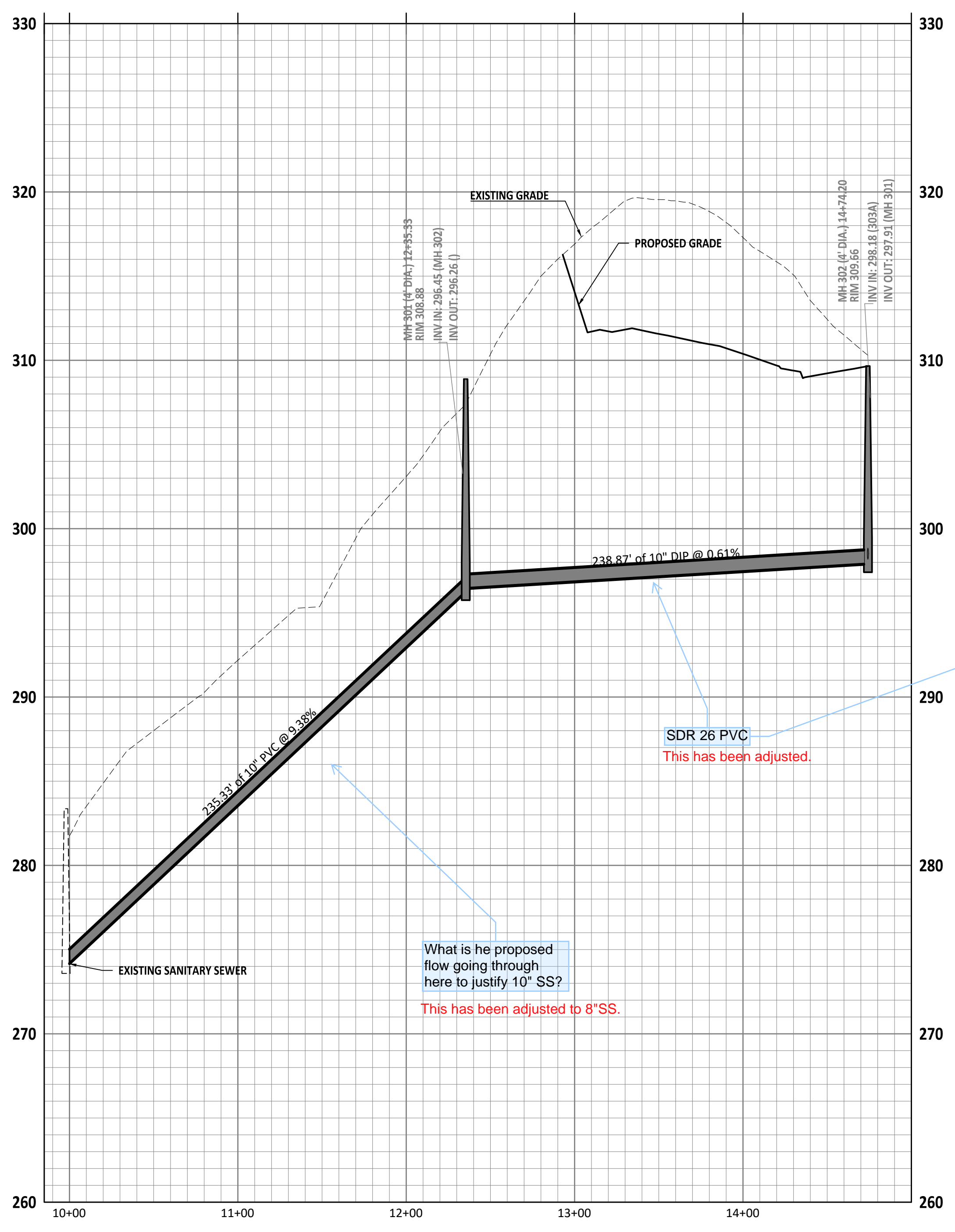
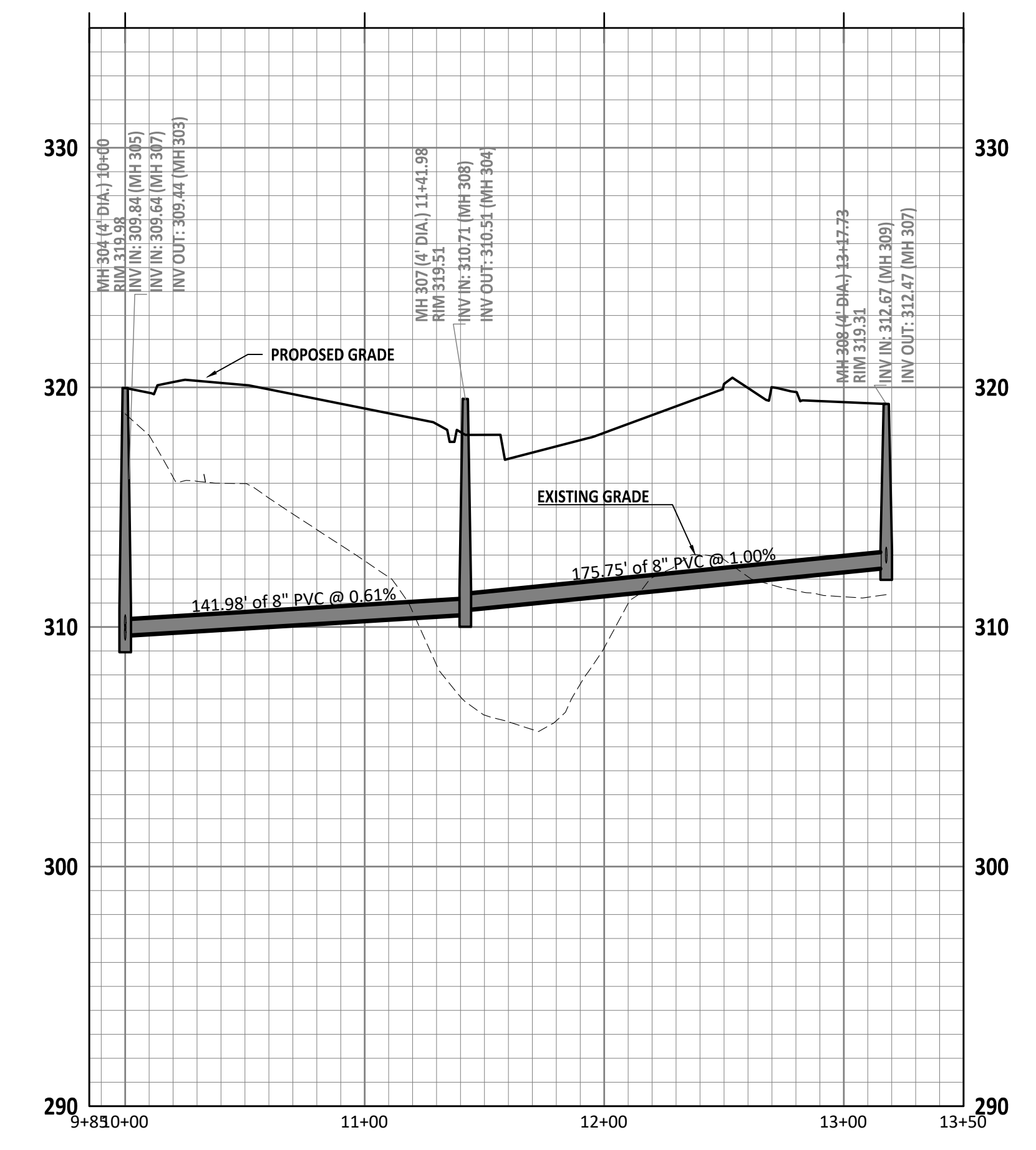
MH# 304 TO MH# 308



MH# 200 TO MH# 302

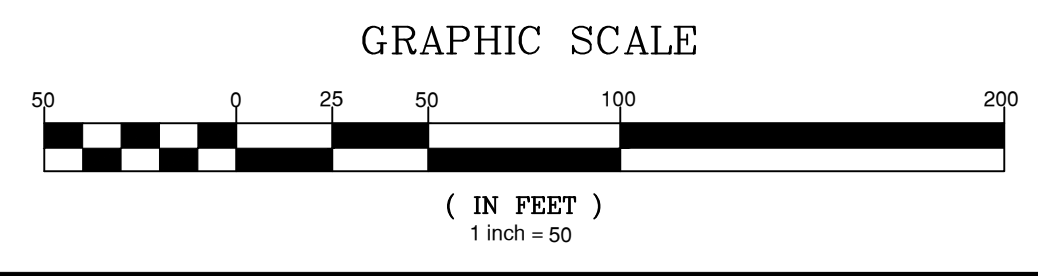


MH# 204A TO MH# 1139



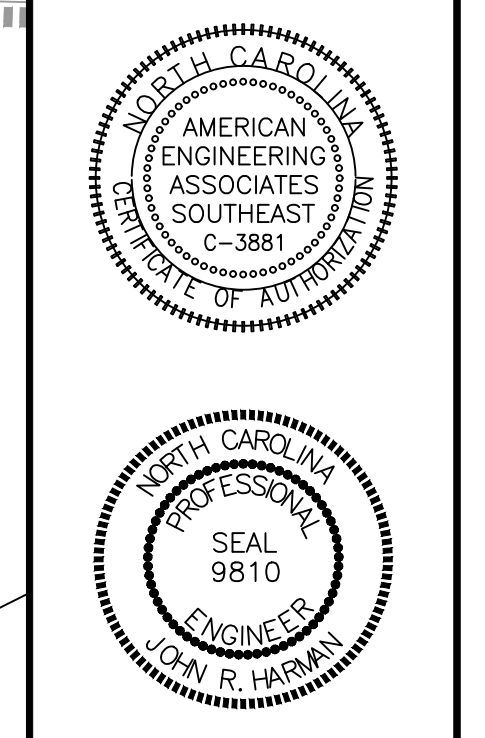
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 City of Raleigh
 Public Utilities Department Permit # _____

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NO.	DATE	REVISION
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**KALAS FALLS
PHASE 3
1832 ROLESVILLE ROAD
WAKE COUNTY, NC**

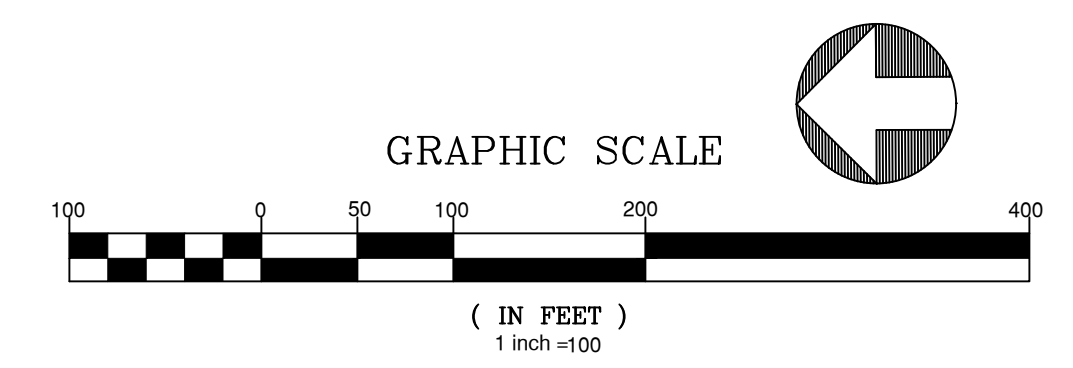
JOB NUMBER: 9900
CHECKED BY: BH/JH
DRAWN BY: SM/MAL/ES/AH/DH
DATE: NOV 1, 2024

**LANDSCAPE
PLAN**

L1

PLANT SCHEDULE

CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY	REMARKS
LARGE TREES						
JUN ATR	Juniperus virginiana 'Minaret' / Minaret Eastern Redcedar	2.5" Cal.	B&B	8' Height Min.	26	Single Stem
PLA OCC	Platanus occidentalis / American Sycamore	2.5" Cal.	B&B	8' Height Min.	17	Single Stem
STREET TREES						
ACE AER	Acer buergerianum 'ABMTF' / Aeryn® Trident Maple	2.5" Cal.	B&B	8' Height Min.	77	Single Stem
ACE OGL	Acer rubrum 'October Glory' / October Glory Red Maple	2.5" Cal.	B&B	8' Height Min.	36	Single Stem
QUE EOK	Quercus phellos 'QPSTA' / Hightower® Willow Oak	2.5" Cal.	B&B	8' Height Min.	63	Single Stem
QUE RUB	Quercus rubra / Northern Red Oak	2.5" Cal.	B&B	8' Height Min.	74	Single Stem
ULM PRI	Ulmus americana 'Princeton' / Princeton American Elm	2.5" Cal.	B&B	8' Height Min.	115	Single Stem
UNDERSTORY TREES						
AME PRI	Amelanchier x grandiflora 'Princess Diana' / Princess Diana Apple Serviceberry	1.5" Cal.		8' Height Min.	41	
SHRUBS						
CAL AME	Calliandra americana / American Beautyberry	18" Height Min.	3 gal		68	Fully Rooted
CEP BLO	Cephalanthus occidentalis 'Balloptics' / Fiber Optics® Buttonbush	18" Height Min.	3 gal		13	Fully Rooted
HAM DIA	Hamamelis x intermedia 'Diane' / Diane Witch Hazel	18" Height Min.	3 gal		17	Fully Rooted
ILE GGI	Ilex glabra 'SMNIGAB17' / Gem Box® Inkberry Holly	18" Height Min.	3 gal		13	Fully Rooted
VIB RUF	Viburnum rufidulum / Southern Rusty Blackhaw	18" Height Min.	3 gal		36	Fully Rooted
VIB CEU	Viburnum x 'SpG-3-024' / Moonlit Lace® Viburnum	18" Height Min.	3 gal		74	Fully Rooted



2:\work\9900\working\Drawings\Phase 3\Phase 3 Landscape Plan.dwg