

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 DOWNSTREAM 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

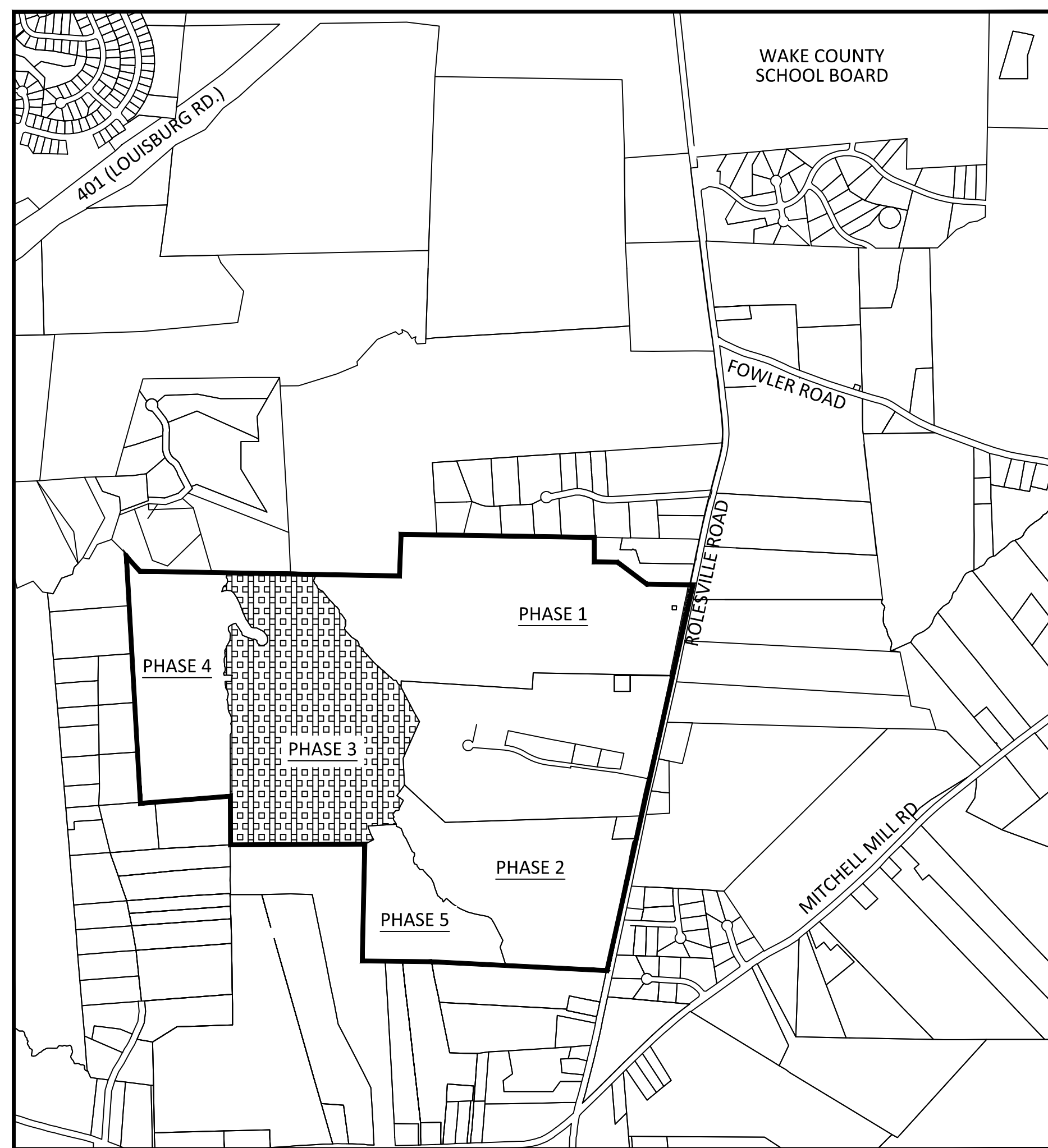
ROLESVILLE ROAD, ROLESVILLE

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
 5TH CD SUBMITTAL: 03-11-2025

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 STAGE 2
2.7	CULVERT CROSSING DETAILS
2.8-2.12	EROSION CONTROL STAGE 3
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



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	NEW: 70.55 AC (PREVIOUS: 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)	145
SEWER SERVICE STUBS (QUANTITY)	145
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:

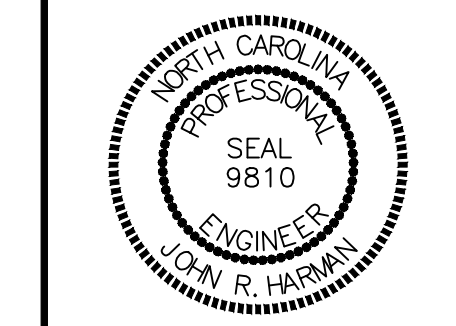
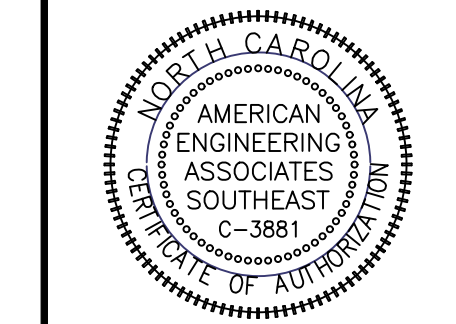
- ALL PUBLIC WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL (1-800-632-4949) TO LOCATE ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL VERIFY THE 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.

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 # _____

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 # _____

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

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.



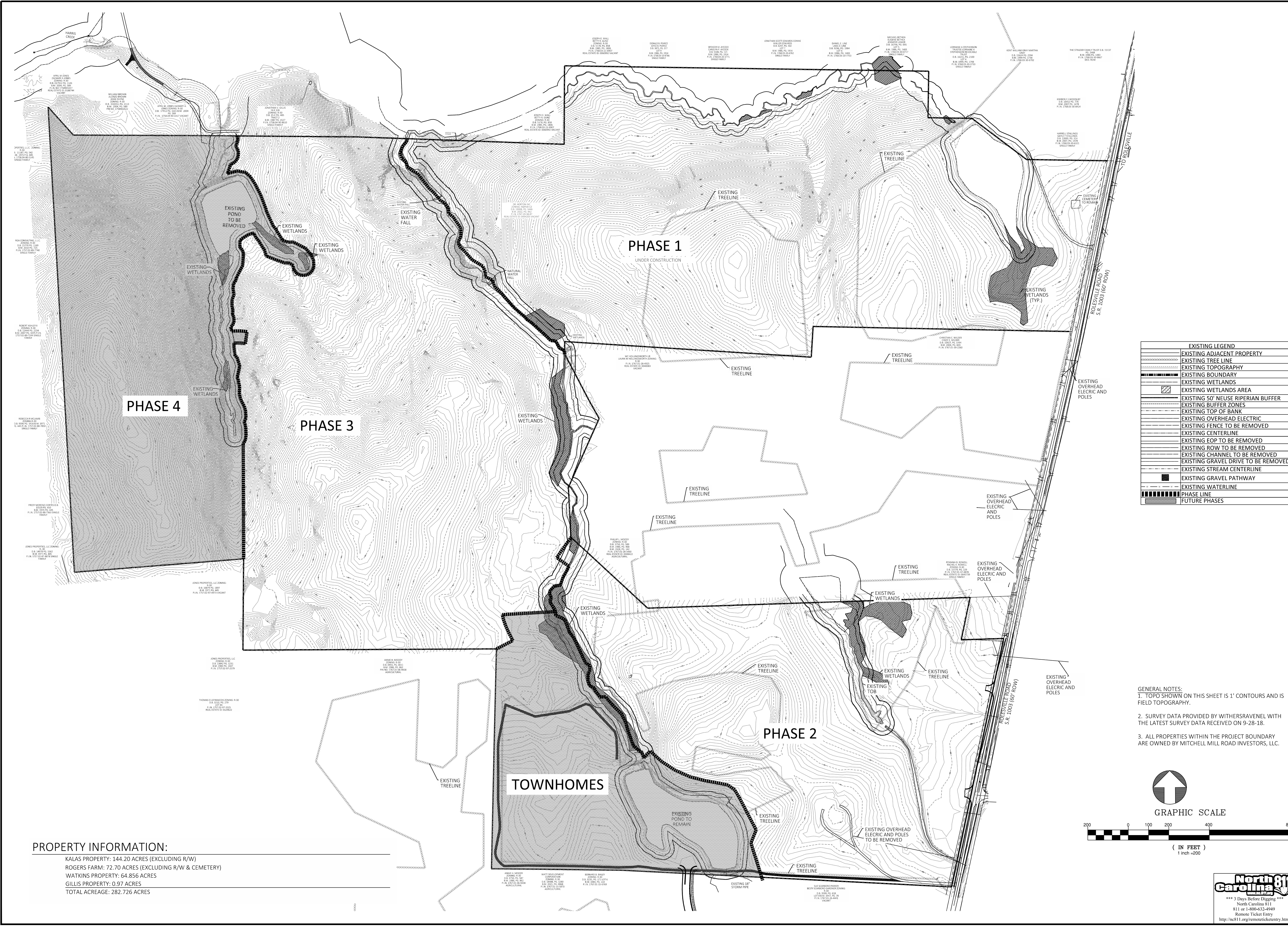
NO.	DATE	REVISION
1	7/21/2021	REVISED FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH
2	9/4/2024	TOWN OF ROLESVILLE CONSULTANT COMMENTS
3	10/07/2024	CONSTRUCTION DRAWING COMMENT RESPONSES
4	3/17/2025	CONSTRUCTION DRAWING COMMENT RESPONSES

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/MALL/ES/AH/DH
 DATE: NOV 1, 2024

SHEET TITLE:
COVER SHEET
 SHEET NO.:
CVR



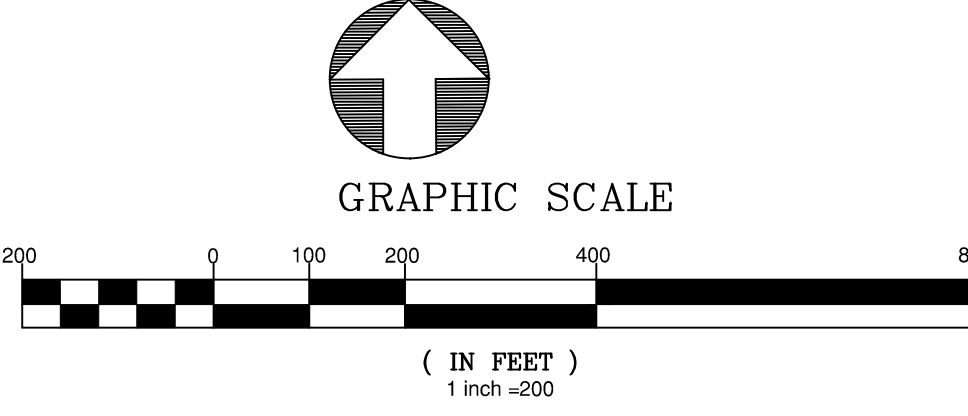
EXISTING LEGEND

[Symbol]	EXISTING ADJACENT PROPERTY
[Symbol]	EXISTING TREE LINE
[Symbol]	EXISTING TOPOGRAPHY
[Symbol]	EXISTING BOUNDARY
[Symbol]	EXISTING WETLANDS
[Symbol]	EXISTING WETLANDS AREA
[Symbol]	EXISTING 50' NEUSE RIPARIAN BUFFER
[Symbol]	EXISTING BUFFER ZONES
[Symbol]	EXISTING TOP OF BANK
[Symbol]	EXISTING OVERHEAD ELECTRIC
[Symbol]	EXISTING FENCE TO BE REMOVED
[Symbol]	EXISTING CENTERLINE
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[Symbol]	EXISTING CHANNEL TO BE REMOVED
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[Symbol]	EXISTING WATERLINE
[Symbol]	PHASE LINE
[Symbol]	FUTURE PHASES

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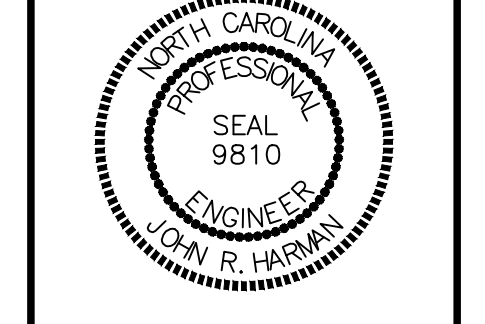
- GENERAL NOTES:**
1. TOPO SHOWN ON THIS SHEET IS 1' CONTOURS AND IS FIELD TOPOGRAPHY.
 2. SURVEY DATA PROVIDED BY WITHERSRAVELL WITH THE LATEST SURVEY DATA RECEIVED ON 9-28-18.
 3. ALL PROPERTIES WITHIN THE PROJECT BOUNDARY ARE OWNED BY MITCHELL MILL ROAD INVESTORS, LLC.



PROPERTY INFORMATION:

KALAS PROPERTY: 144.20 ACRES (EXCLUDING R/W)
 ROGERS FARM: 72.70 ACRES (EXCLUDING R/W & CEMETERY)
 WATKINS PROPERTY: 64.856 ACRES
 GILLIS PROPERTY: 0.97 ACRES
 TOTAL ACREAGE: 282.726 ACRES

DATE: 11/01/2024
 DRAWN BY: SM/MALL/ES/AH/DH
 CHECKED BY: BH/JH
 JOB NUMBER: 9900



NO.	DATE	REVISION	CONTRIBUTOR
1	7/27/2024	1ST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH	
2	9/4/2024	TOWN OF ROLESVILLE CONSULTANT COMMENTS	
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STIPULATION FOR REUSE

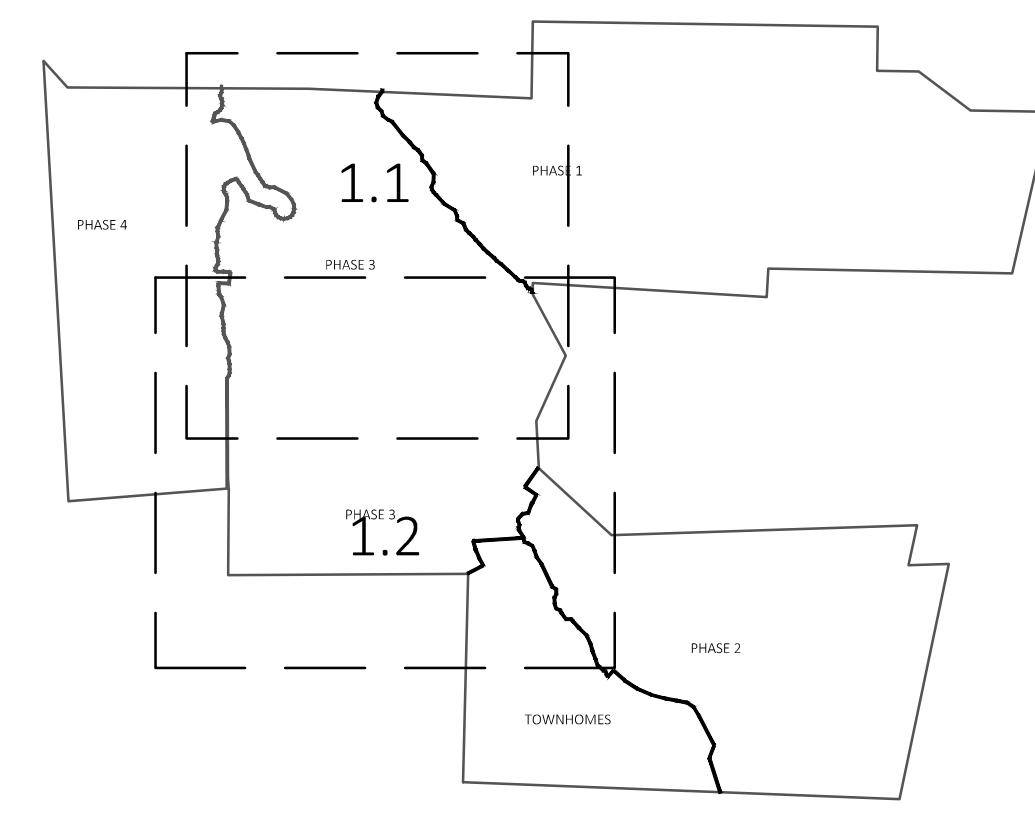
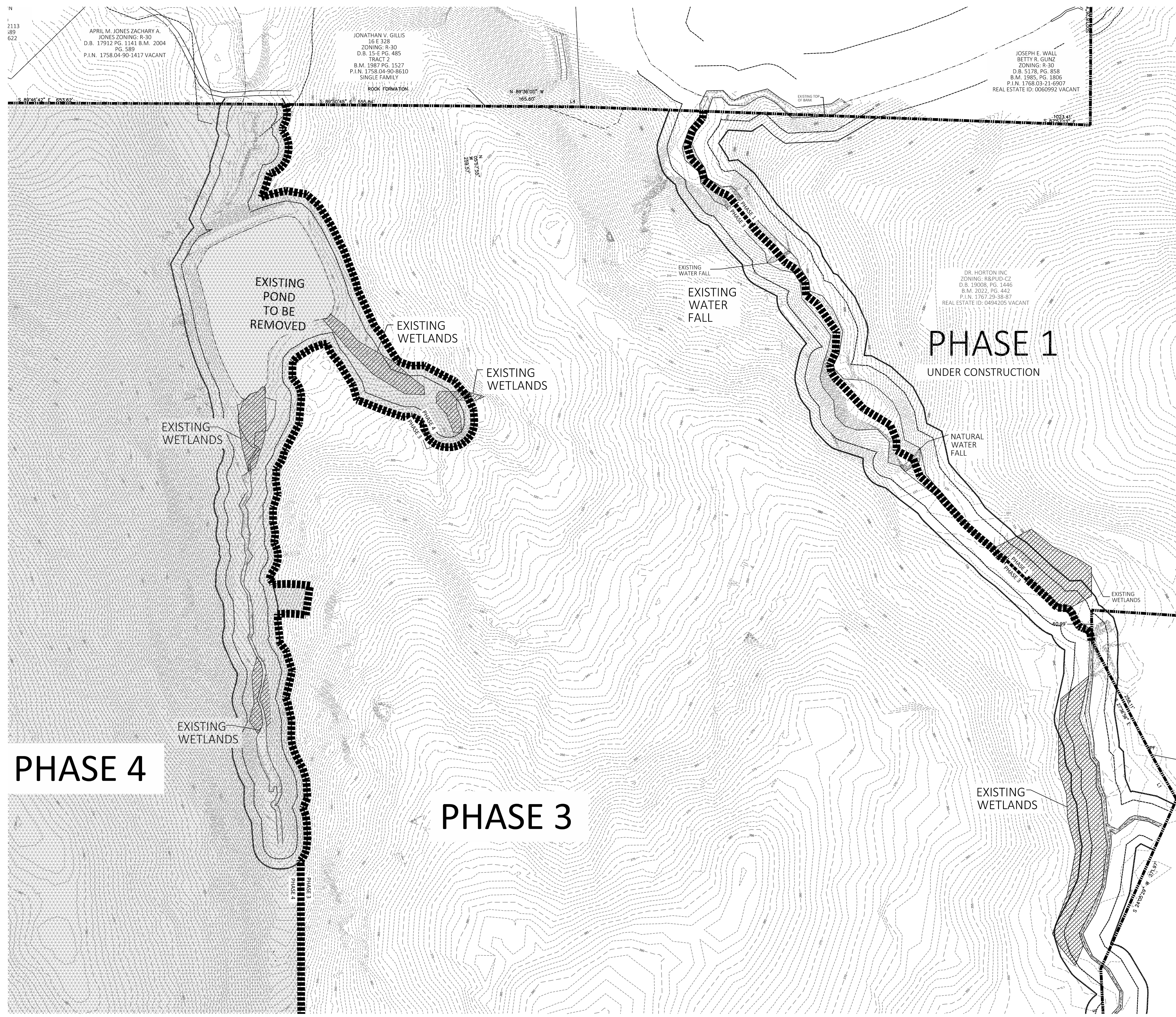
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KALAS FALLS PHASE 3
 1832 ROLESVILLE ROAD
 WAKE COUNTY, NC

OVERALL EXISTING CONDITIONS

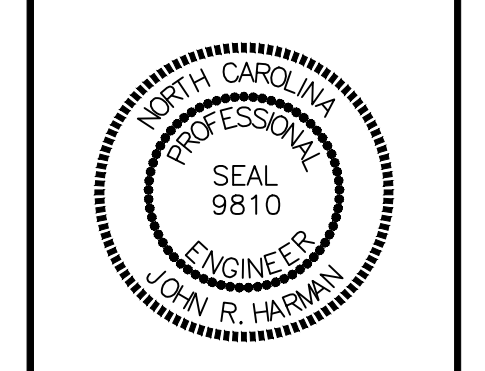
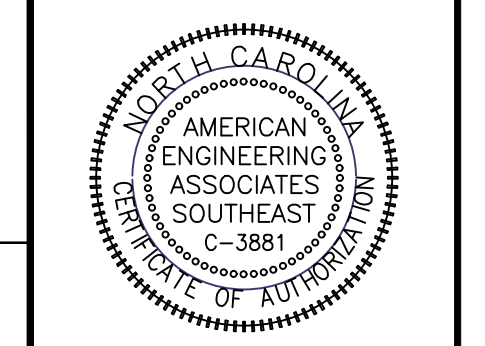
SHEET NO.: 1.0





GRAPHIC SCALE 1"=1000'

EXISTING LEGEND	
[Symbol]	EXISTING ADJACENT PROPERTY
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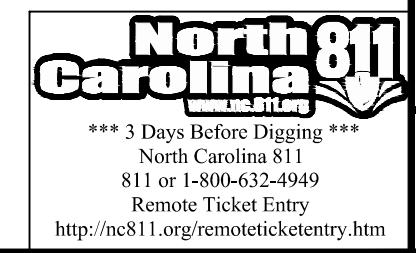
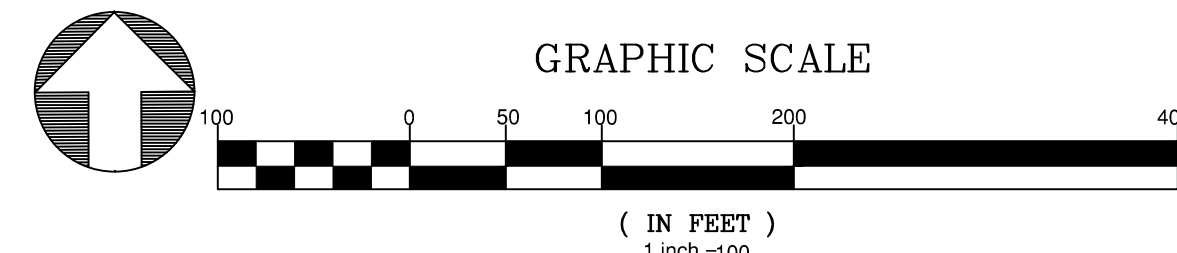
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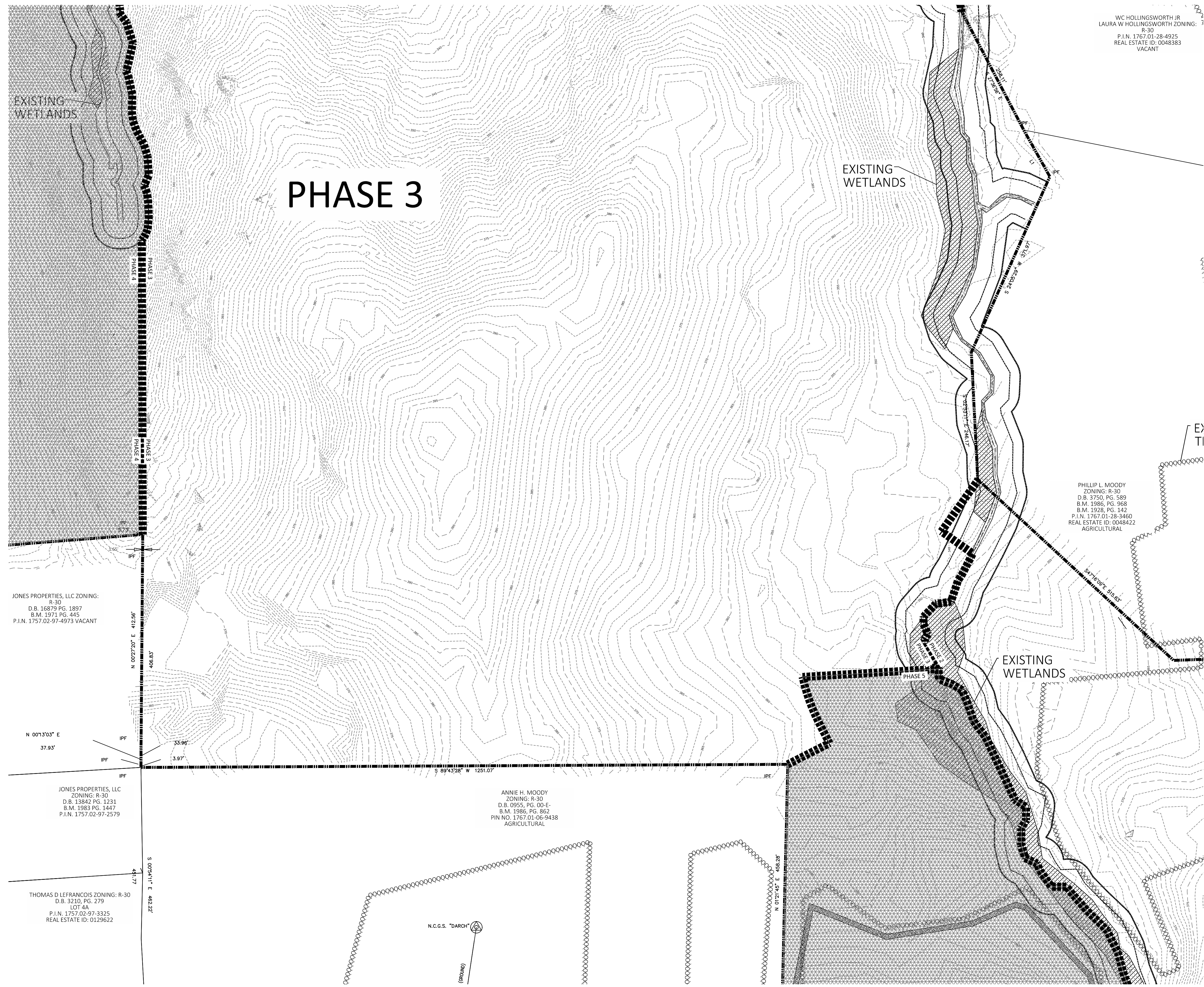
KALAS FALLS PHASE 3
 1832 ROLESVILLE ROAD
 WAKE COUNTY, NC

JOB NUMBER: 9900
 CHECKED BY: BH/JH
 DRAWN BY: SM/MALL/ES/AH/DH
 DATE: NOV 1, 2024
 SHEET TITLE:
PHASE 3 EXISTING CONDITIONS
 SHEET NO.: 1.1

GENERAL NOTES:
 1. TOPO SHOWN ON THIS SHEET IS 1' CONTOURS AND IS FIELD TOPOGRAPHY.



Z:\Projects\2025\KALAS FALLS PHASE 3\Phase 3 Existing Conditions.dwg
March 11, 2025



WC HOLLINGSWORTH JR
LAURA W HOLLINGSWORTH ZONING:
R-30
P.I.N. 1767.01-28-4825
REAL ESTATE ID. 0048383
VACANT

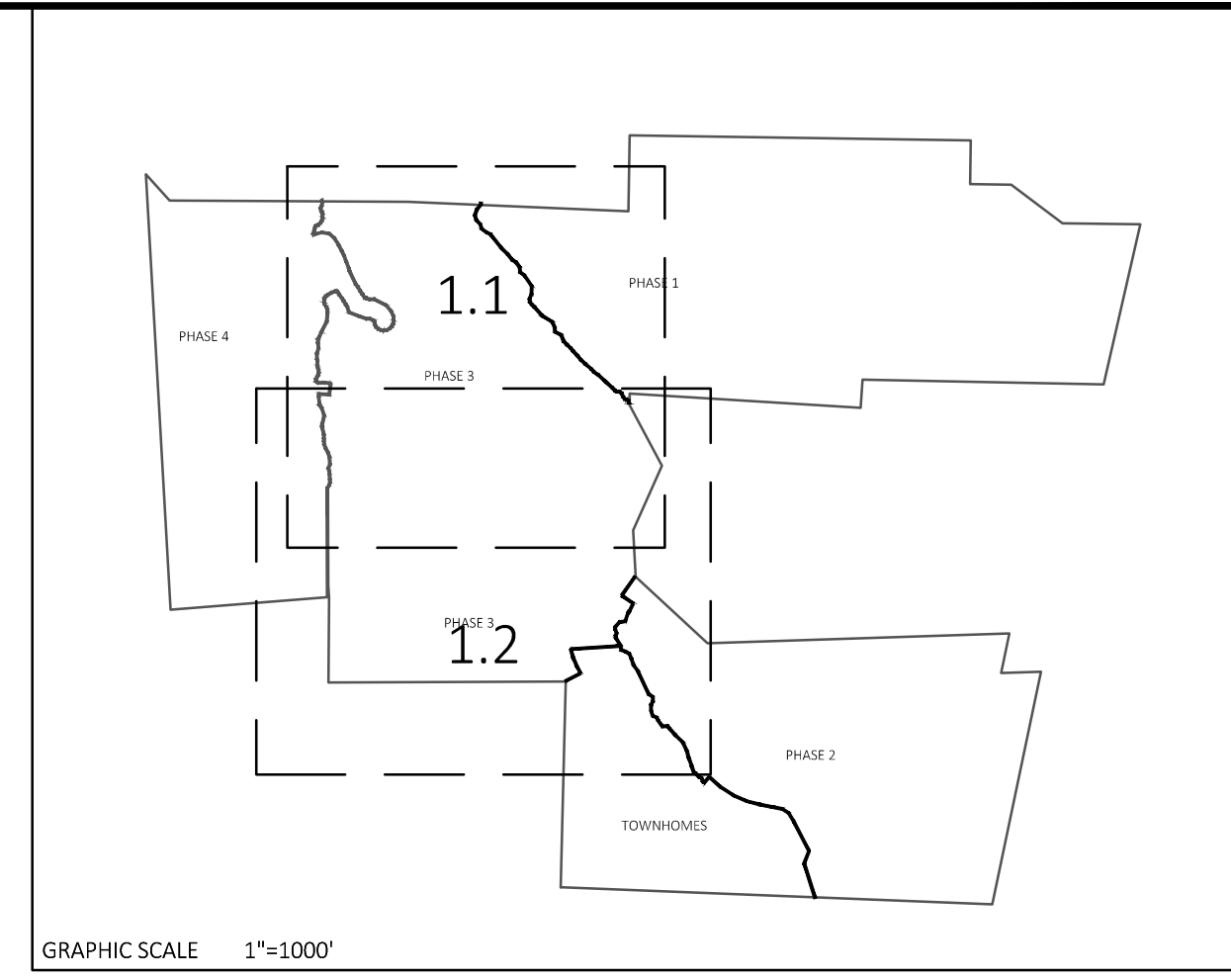
PHILLIP L. MOODY
ZONING: R-30
D.B. 3750, PG. 589
B.M. 1986, PG. 968
B.M. 1928, PG. 142
P.I.N. 1767.01-28-3460
REAL ESTATE ID. 0048422
AGRICULTURAL

JONES PROPERTIES, LLC ZONING:
R-30
D.B. 16879 PG. 1897
B.M. 1971 PG. 445
P.I.N. 1757.02-97-4973 VACANT

JONES PROPERTIES, LLC
ZONING: R-30
D.B. 13842 PG. 1231
B.M. 1983 PG. 1447
P.I.N. 1757.02-97-2579

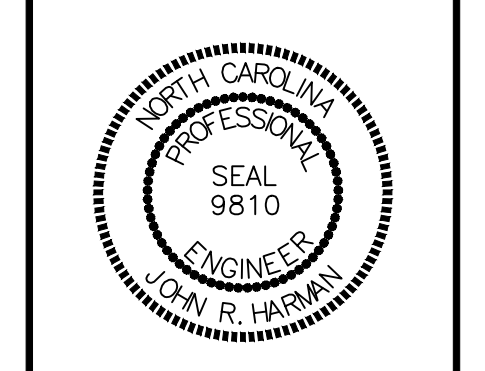
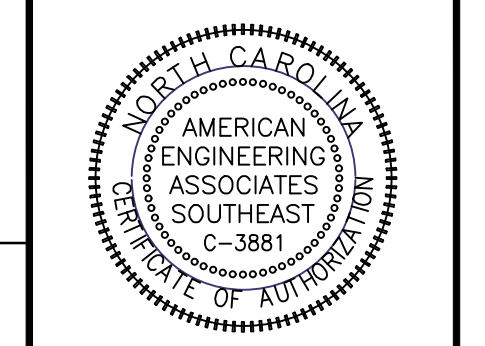
THOMAS D LEFRANCOIS ZONING: R-30
D.B. 3210, PG. 279
LOT 4A
P.I.N. 1757.02-97-3325
REAL ESTATE ID: 0129622

ANNIE H. MOODY
ZONING: R-30
D.B. 0955, PG. 00-E
B.M. 1986, PG. 862
PIN NO. 1767.01-06-9438
AGRICULTURAL



EXISTING LEGEND	
	EXISTING ADJACENT PROPERTY
	EXISTING TREE LINE
	EXISTING TOPOGRAPHY
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	PHASE LINE
	FUTURE PHASES

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

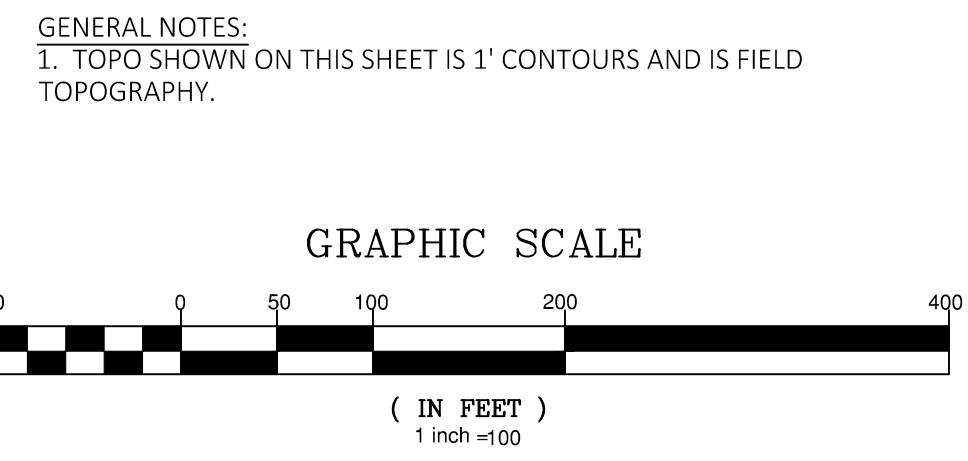


NO.	DATE	REVISION
1	7/27/2021	ISSUED FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH
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4	3/11/2025	CONSTRUCTION DRAWING COMMENT RESPONSES

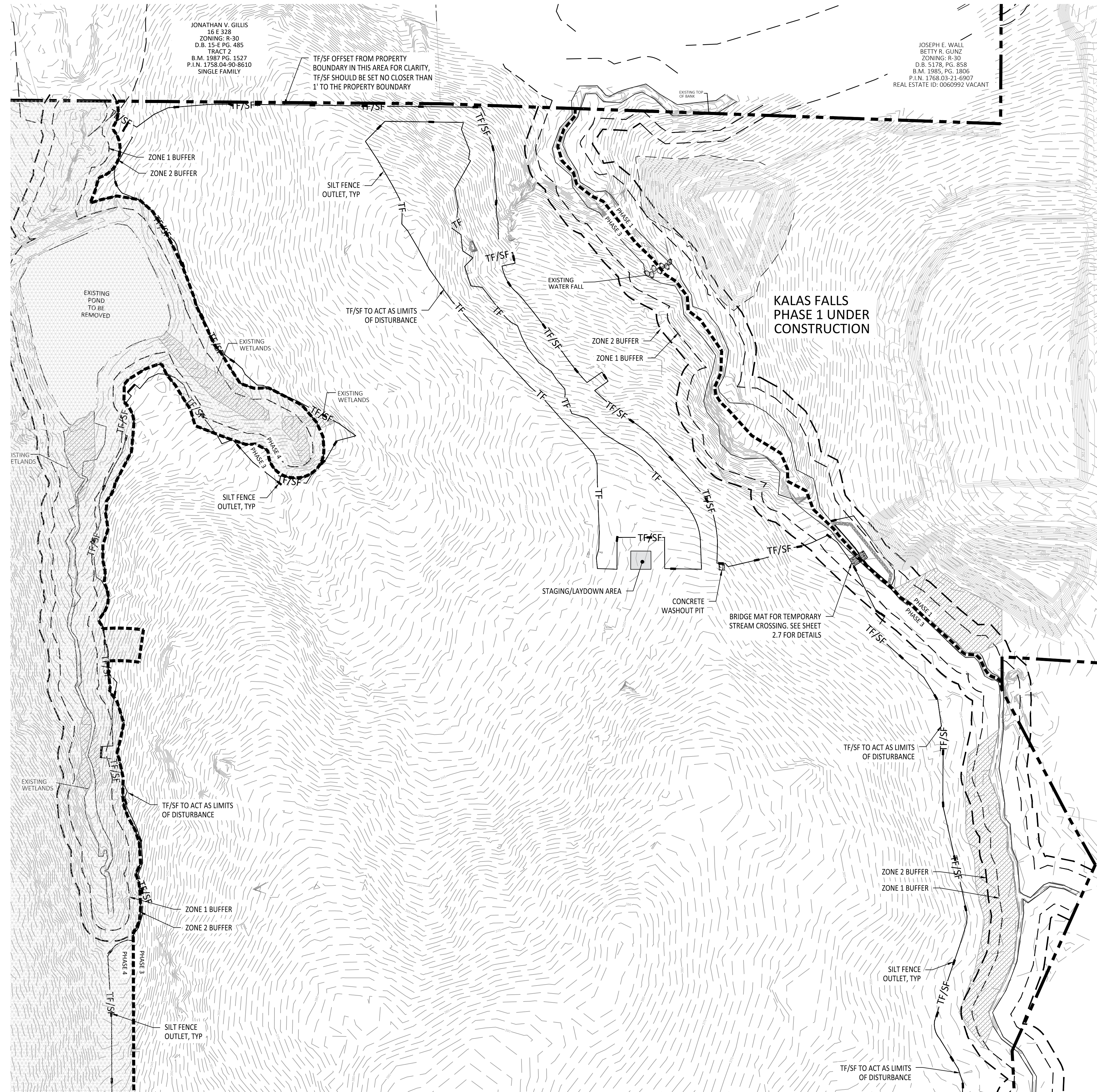
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**KALAS FALLS
PHASE 3
1832 ROLESVILLE ROAD
WAKE COUNTY, NC**

JOB NUMBER: 9900
CHECKED BY: BH/JH
DRAWN BY: SM/MAL/ES/AH/DH
DATE: NOV 1, 2024
SHEET TITLE:
**PHASE 3
EXISTING
CONDITIONS**
SHEET NO.:
1.2

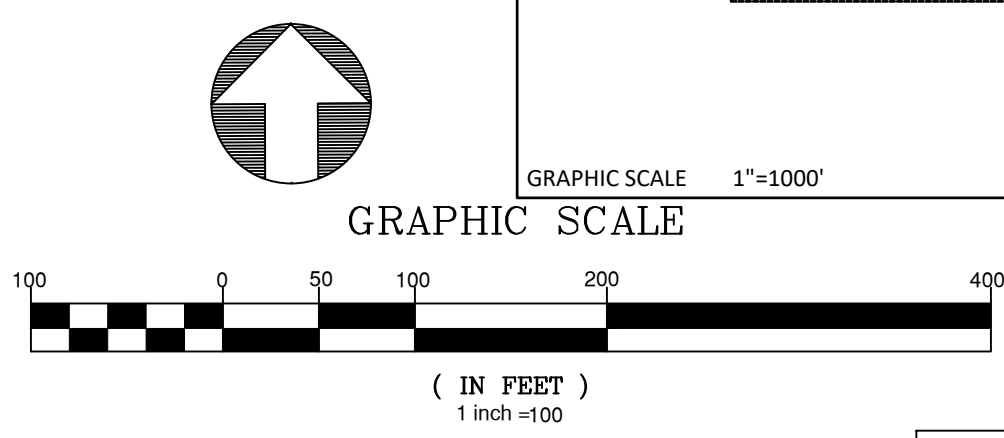
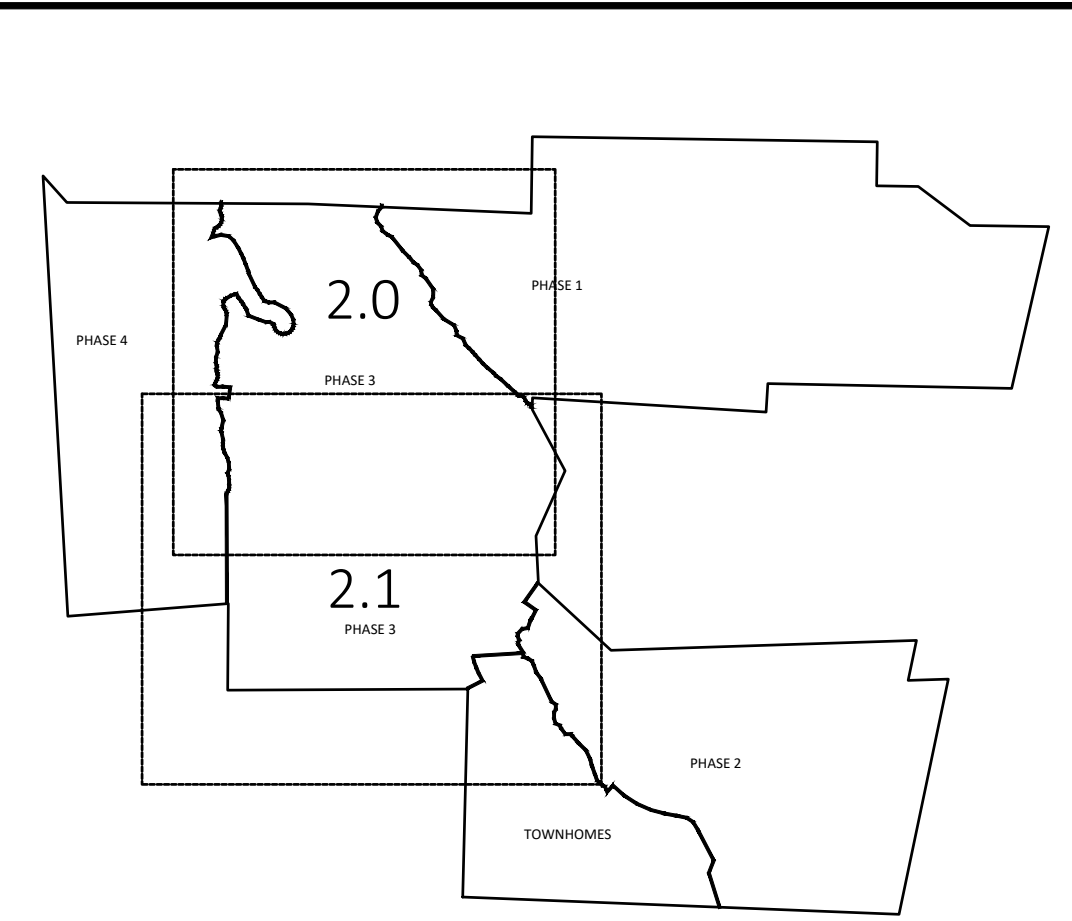


North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
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Remote Ticket Entry
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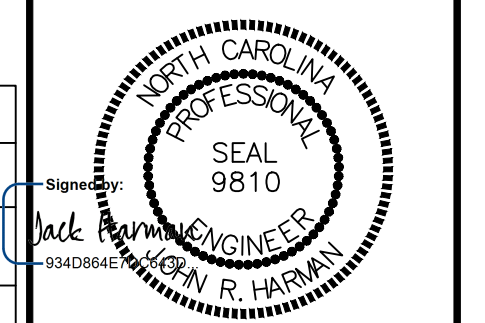
JONATHAN V. GILLIS
16 E 328
ZONING: R-30
D.B. 15-E PG. 485
TRACT 2
B.M. 1587 PG. 1527
P.I.N. 1758.04-90-8610
SINGLE FAMILY

JOSEPH E. WALL
BETTY R. GUNZ
ZONING: R-30
D.B. 5178, PG. 858
B.M. 1985, PG. 1806
P.I.N. 1768.03-21-6907
REAL ESTATE ID: 0060992 VACANT



EROSION CONTROL LEGEND	
	100 YEAR FLOOD EASEMENT
	EXISTING TOPOGRAPHY
	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' NEUSE RIPERIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	BUILDING RESTRICTION LINE
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED GRADING
	PROPOSED EASEMENT
	PROPOSED 25 x 50 GRAVEL CONSTRUCTION ENTRANCE
	PROPOSED RIP RAP
	BASIN WEIR
	PROPOSED SEDIMENT BASIN
	PROPOSED INLET PROTECTION
	PROPOSED CHECK DAM
	PROPOSED SF OUTLET
	GREENWAY TRAIL HATCH
	PROPOSED AREAS FOR 7 DAY STABILIZATION
	PROPOSED EROSION CONTROL BLANKET
	PROPOSED BASIN MAINTENANCE PAD
	PROPOSED WATTLE
	PROPOSED SILT FENCE
	PROPOSED TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
	PROPOSED SILT FENCE/LIMITS OF DISTURBANCE
	PROPOSED DIVERSION DITCH
	PROPOSED SWALE
	PROPOSED JUNCTION BOX
	PROPOSED CATCH BASIN
	PROPOSED YARD INLET
	PROPOSED DROP INLET
	PROPOSED STORM WATER

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



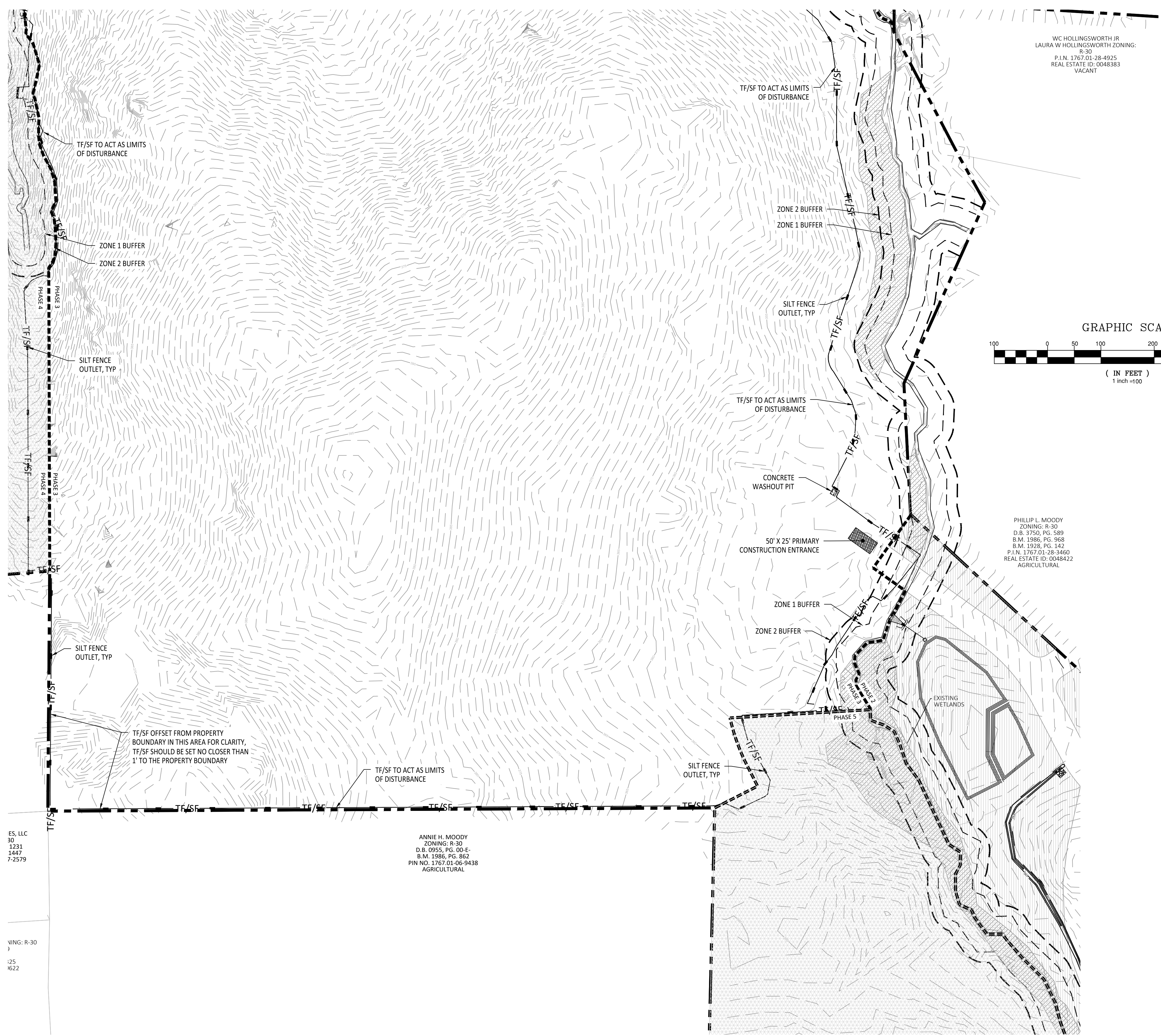
NO.	DATE	REVISION
1	7/27/2021	ISSUE FROM TOWN OF ROLESVILLE CONSULTANT REVIEW AND CITY OF RALEIGH CONSULTANT COMMENTS
2	9/14/2023	TOWN OF ROLESVILLE CONSULTANT COMMENTS
3	11/07/2024	CONSTRUCTION DRAWING COMMENT RESPONSES

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/MALL/ES/AH/DH
DATE: NOV 1, 2024
SHEET TITLE:
EROSION CONTROL STAGE 1
SHEET NO.:
2.0





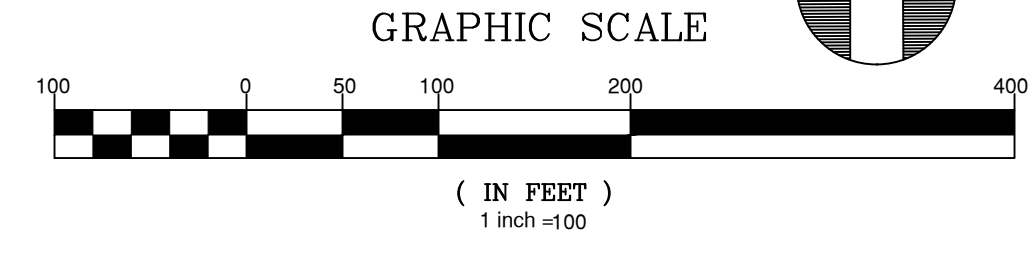
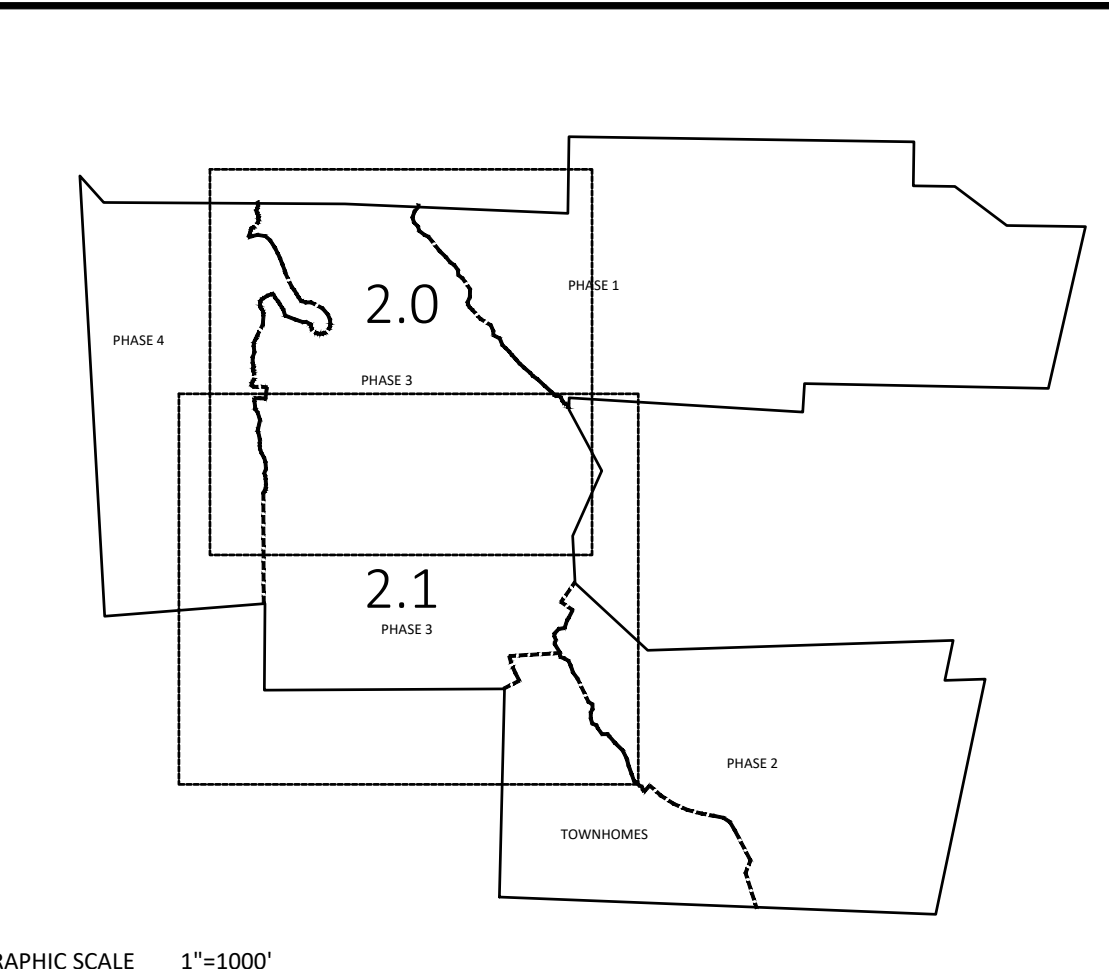
WC HOLLINGSWORTH JR
LAURA W. HOLLINGSWORTH ZONING:
R-30
P.I.N. 1767.01-28-4925
REAL ESTATE ID: 0048383
VACANT

PHILIP L. MOODY
ZONING: R-30
D.B. 3750, PG. 589
B.M. 1986, PG. 968
B.M. 1928, PG. 142
P.I.N. 1767.01-28-3460
REAL ESTATE ID: 0048422
AGRICULTURAL

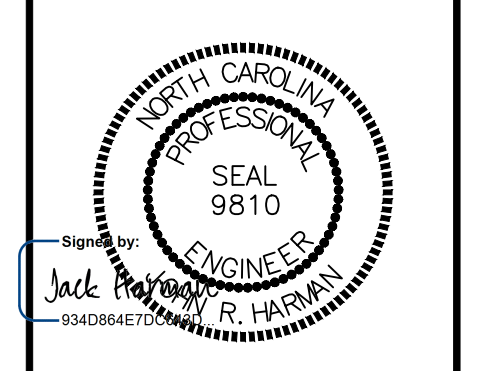
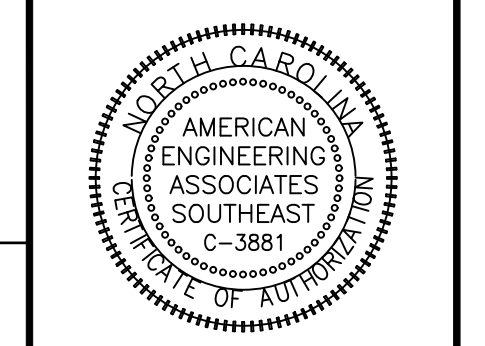
ANNIE H. MOODY
ZONING: R-30
D.B. 0955, PG. 00-E
B.M. 1986, PG. 862
PIN NO. 1767.01-06-9438
AGRICULTURAL

ES, LLC
30
1231
1447
7-2579

ZONING: R-30
125
1622



EROSION CONTROL LEGEND	
	100 YEAR FLOOD EASEMENT
	EXISTING TOPOGRAPHY
	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' NEUSE RIPARIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	BUILDING RESTRICTION LINE
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED GRADING
	PROPOSED EASEMENT
	PROPOSED 25 x 50 GRAVEL CONSTRUCTION ENTRANCE
	PROPOSED RIP RAP
	BASIN WEIR
	PROPOSED SEDIMENT BASIN
	PROPOSED INLET PROTECTION
	PROPOSED CHECK DAM
	PROPOSED SF OUTLET
	GREENWAY TRAIL HATCH
	PROPOSED AREAS FOR 7 DAY STABILIZATION
	PROPOSED EROSION CONTROL BLANKET
	PROPOSED BASIN MAINTENANCE PAD
	PROPOSED WATTLE
	PROPOSED SILT FENCE
	PROPOSED TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
	PROPOSED SILT FENCE/LIMITS OF DISTURBANCE
	PROPOSED DIVERSION DITCH
	PROPOSED SWALE
	PROPOSED JUNCTION BOX
	PROPOSED CATCH BASIN
	PROPOSED YARD INLET
	PROPOSED DROP INLET
	PROPOSED STORM WATER



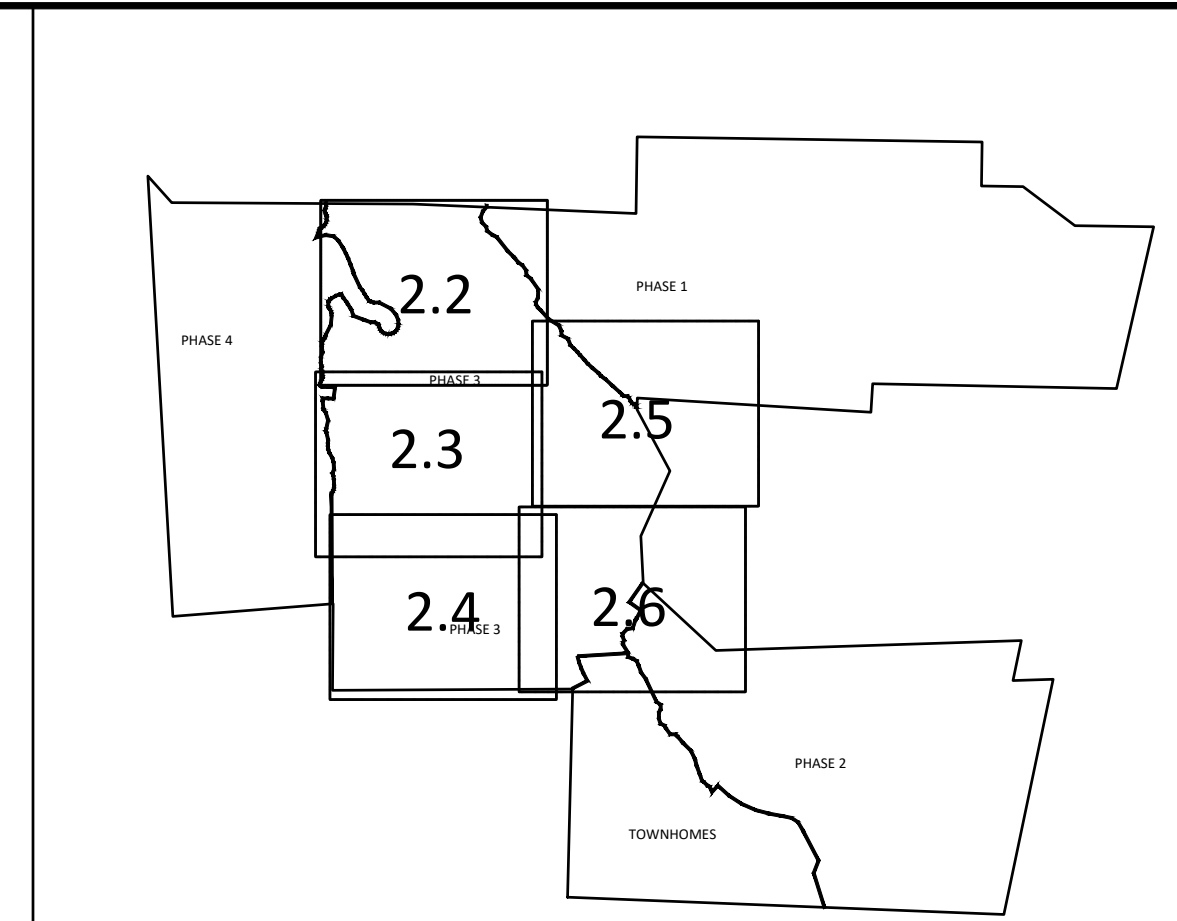
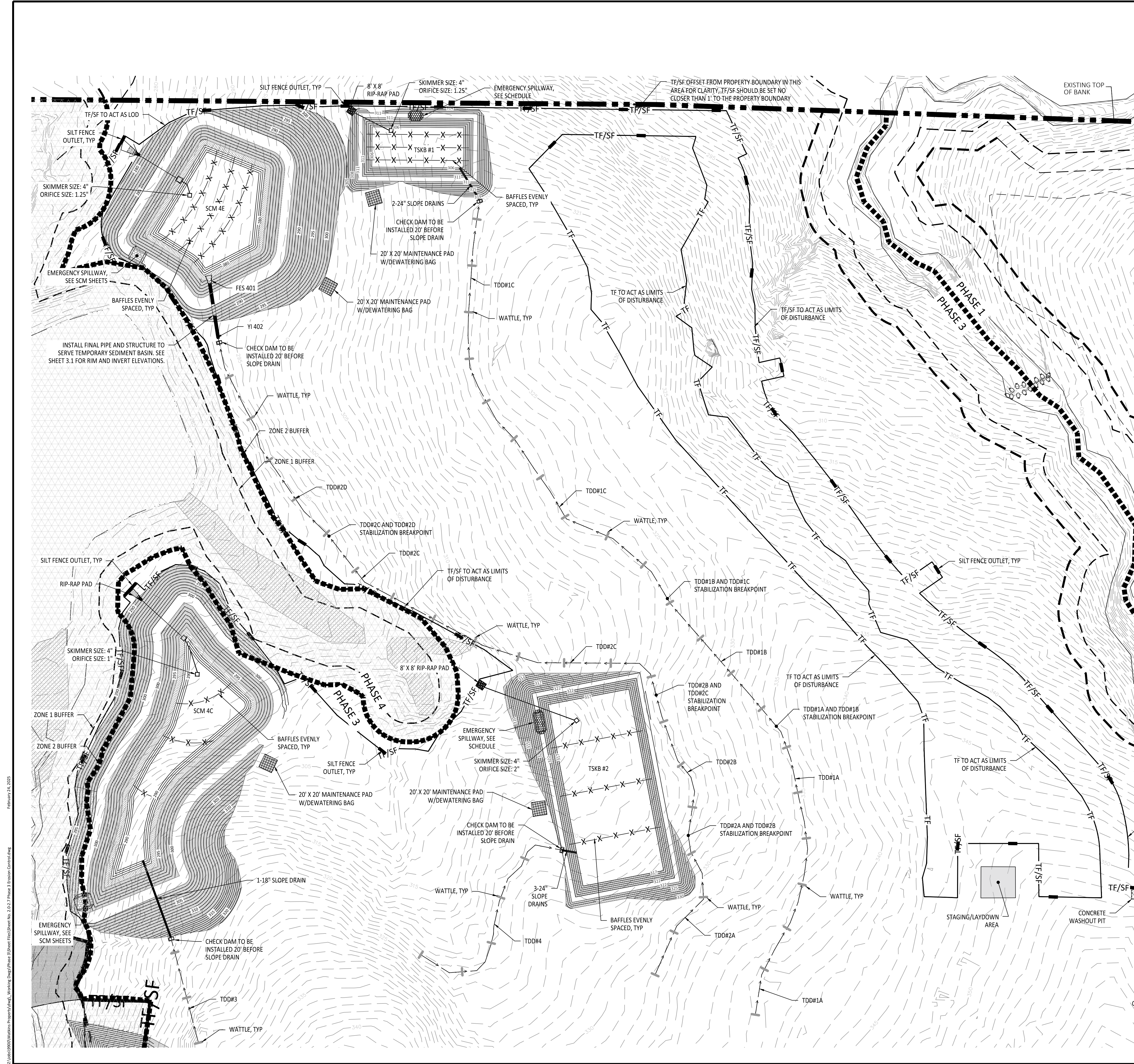
NO.	DATE	REVISION
1	7/27/2021	ISSUE FOR REVIEW BY TOWN OF ROLESVILLE, CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH
2	9/14/2024	TOWN OF ROLESVILLE CONSULTANT COMMENTS
3	11/07/2024	CONSTRUCTION DRAWING COMMENT RESPONSES

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/ES/AH/DH
DATE:	NOV 1, 2024
SHEET TITLE:	EROSION CONTROL STAGE 1
SHEET NO.:	2.1

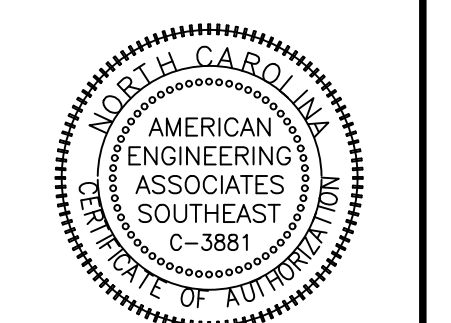
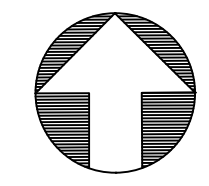
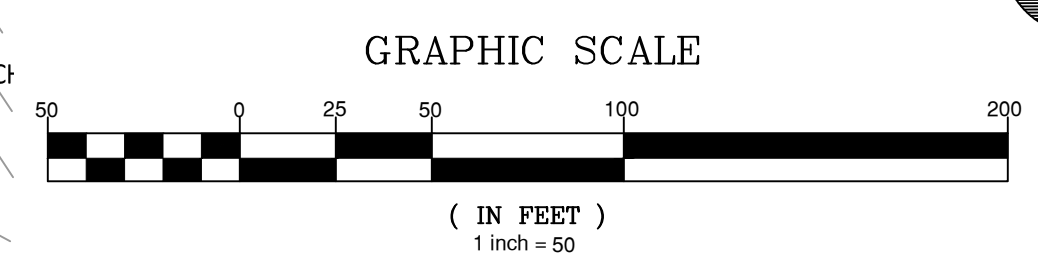




GRAPHIC SCALE 1"=100'

EROSION CONTROL LEGEND	
	100 YEAR FLOOD EASEMENT
	EXISTING TOPOGRAPHY
	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' NEUSE RIPERIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	BUILDING RESTRICTION LINE
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED GRADING
	PROPOSED EASEMENT
	PROPOSED 25 x 50 GRAVEL CONSTRUCTION ENTRANCE
	PROPOSED RIP RAP
	BASIN WEIR
	PROPOSED SEDIMENT BASIN
	PROPOSED INLET PROTECTION
	PROPOSED CHECK DAM
	PROPOSED SF OUTLET
	GREENWAY TRAIL HATCH
	PROPOSED AREAS FOR 7 DAY STABILIZATION
	PROPOSED EROSION CONTROL BLANKET
	PROPOSED BASIN MAINTENANCE PAD
	PROPOSED WATTLE
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	PROPOSED DIVERSION DITCH
	PROPOSED SWALE
	PROPOSED JUNCTION BOX
	PROPOSED CATCH BASIN
	PROPOSED YARD INLET
	PROPOSED DROP INLET
	PROPOSED STORM WATER

- GENERAL NOTES:
1. ALL SEDIMENT TRAPS/PONDS SHALL BE STABILIZED WITHIN 7 DAYS OF INSTALLATION.
 2. WATTLE/CHECK DAM ARE TO BE PLACED EVERY 3 TO 4 FT VERTICALLY.
 3. THE COMBINATION TREE FENCE/SILT FENCE IS TO ACT AS THE LIMITS OF DISTURBANCE
 4. SEE SHEET 3.2 FOR SEDIMENT BASIN CHART SHOWING THE SKIMMER/ORIFICE SIZES
 5. DIVERSION SWALE DESIGN, SEE SHEET 3.2 FOR DETAILS AND REFERENCE TABLE.
 6. SEE SHEETS 2.2 TO 2.6 FOR SLOPE DRAIN PIPE SIZES.
 7. SEE SHEET 3.2 FOR RIP RAP PAD SIZES.
 8. SEE SHEETS 4.6-4.11 FOR SCM RISER AND PIPING SIZES.



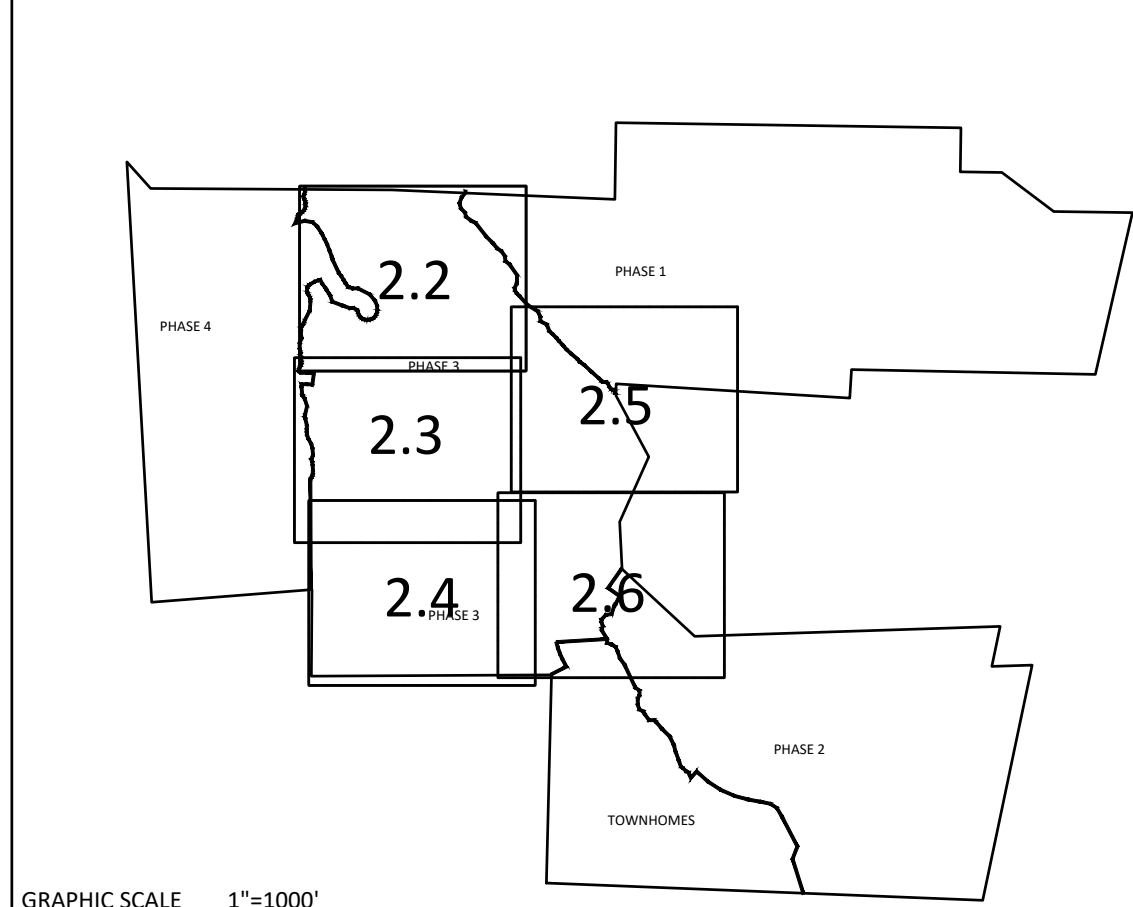
NO.	DATE	REVISION
1	7/27/2021	ISSUE FOR REVIEW AND CITY OF RALEIGH PERMITS
2	9/4/2024	TOWN OF ROLESVILLE CONSULTANT COMMENTS
3	11/07/2024	CONSTRUCTION DRAWING COMMENT RESPONSES

STIPULATION FOR REUSE

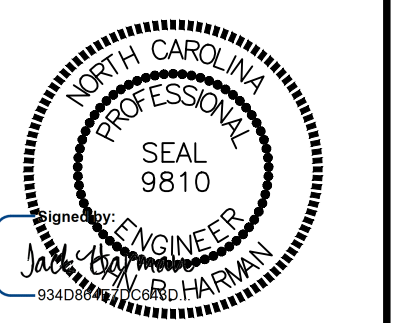
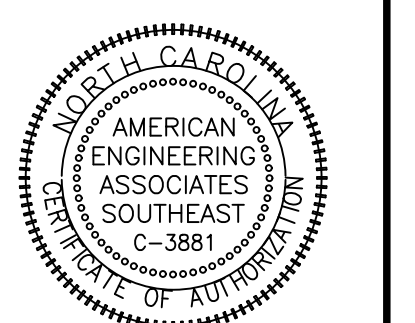
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**KALAS FALLS
PHASE 3
1832 ROLESVILLE ROAD
WAKE COUNTY, NC**

JOB NUMBER: 9900
 CHECKED BY: BH/JH
 DRAWN BY: SMM/ALL/ES/AH/DH
 DATE: NOV 1, 2024
 SHEET TITLE:
**EROSION CONTROL
STAGE 2**
 SHEET NO.:
2.2



	100 YEAR FLOOD EASEMENT
	EXISTING TOPOGRAPHY
	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' NEUSE RIPARIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	BUILDING RESTRICTION LINE
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED GRADING
	PROPOSED EASEMENT
	PROPOSED 25 X 50 GRAVEL CONSTRUCTION ENTRANCE
	PROPOSED RIP RAP
	BASIN WEIR
	PROPOSED SEDIMENT BASIN
	PROPOSED INLET PROTECTION
	PROPOSED CHECK DAM
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	GREENWAY TRAIL HATCH
	PROPOSED AREAS FOR 7 DAY STABILIZATION
	PROPOSED EROSION CONTROL BLANKET
	PROPOSED BASIN MAINTENANCE PAD
	PROPOSED WATTLE
	PROPOSED SILT FENCE
	PROPOSED TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
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	PROPOSED SWALE
	PROPOSED JUNCTION BOX
	PROPOSED CATCH BASIN
	PROPOSED YARD INLET
	PROPOSED DROP INLET
	PROPOSED STORM WATER



NO.	DATE	REVISION
1	7/27/2021	ISSUE FROM TOWN OF ROLESVILLE CONSULTANT, REPLY TO CITY OF RALEIGH
2	9/4/2024	REVISION TO TOWN OF ROLESVILLE CONSULTANT COMMENTS
3	11/20/2024	CONSTRUCTION DRAWING COMMENT RESPONSES

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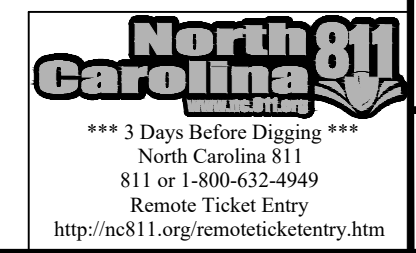
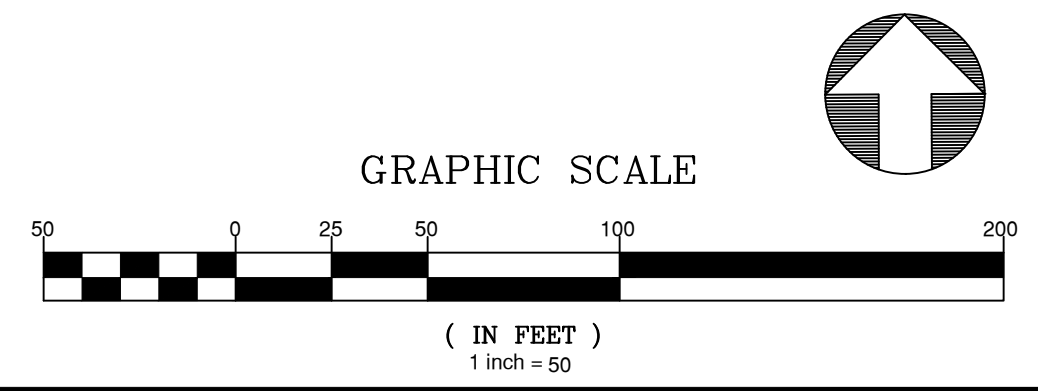
**KALAS FALLS
 PHASE 3
 1832 ROLESVILLE ROAD
 WAKE COUNTY, NC**

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

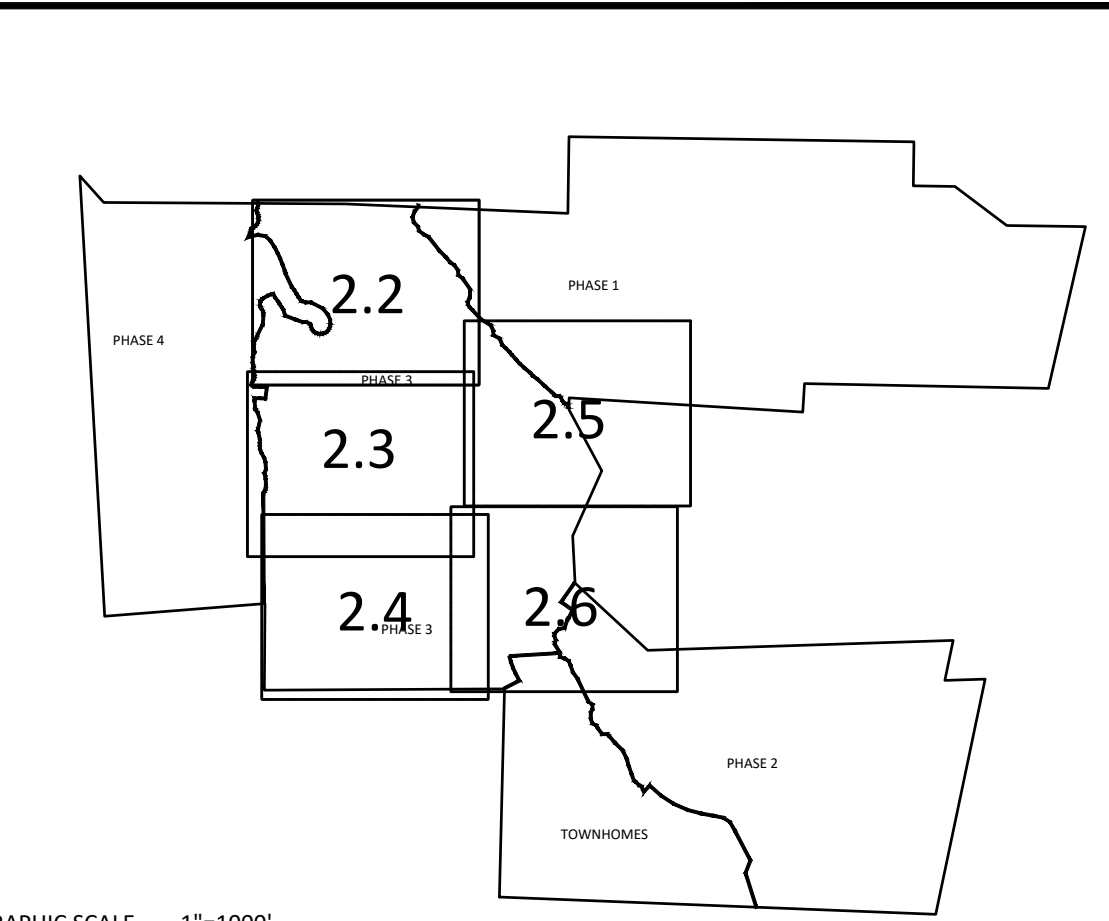
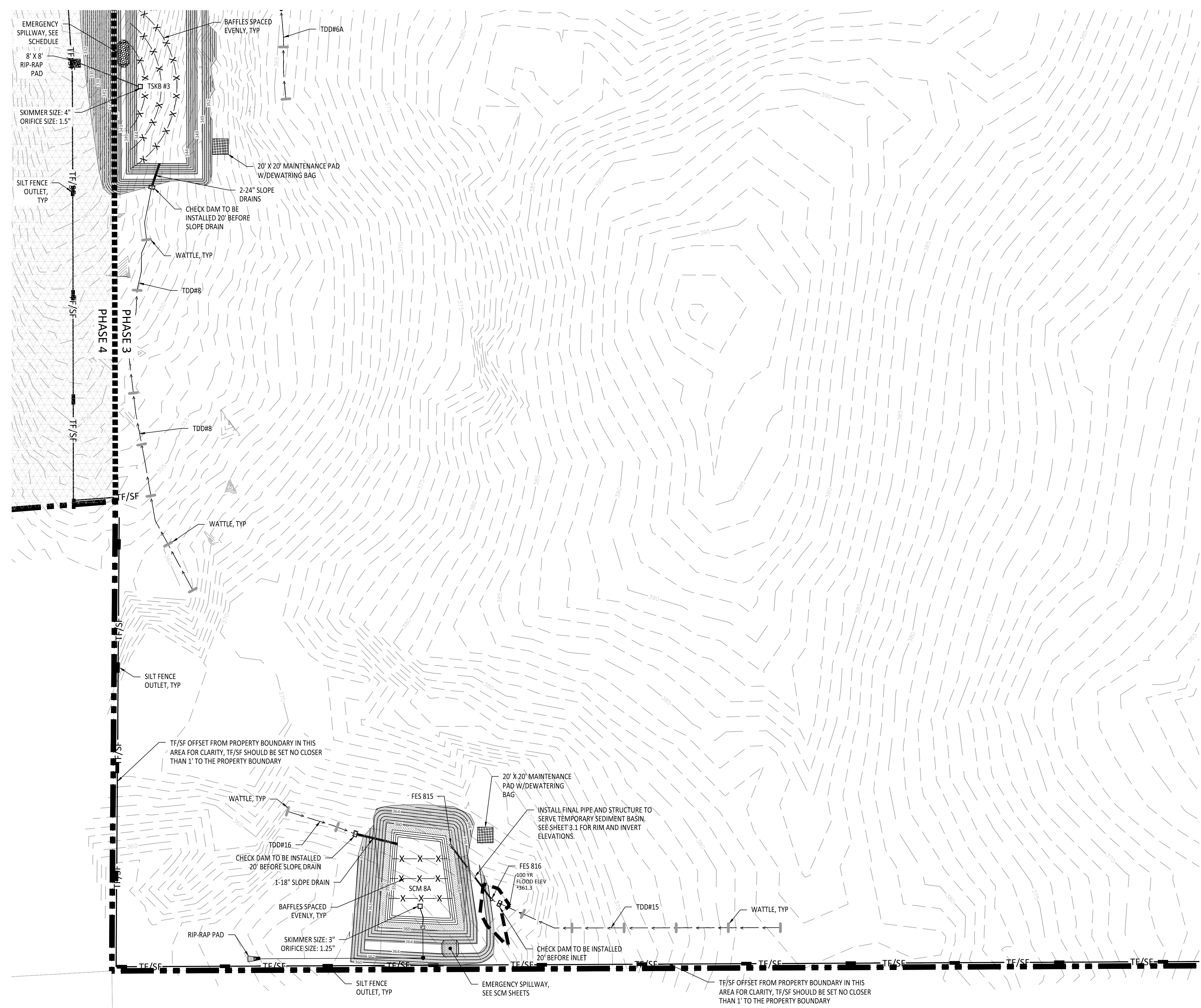
SHEET TITLE:
EROSION CONTROL STAGE 2

SHEET NO.:	2.3
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- GENERAL NOTES:**
- ALL SEDIMENT TRAPS/PONDS SHALL BE STABILIZED WITHIN 7 DAYS OF INSTALLATION.
 - WATTLE/CHECK DAM ARE TO BE PLACED EVERY 3 TO 4 FT VERTICALLY.
 - THE COMBINATION TREE FENCE/SILT FENCE IS TO ACT AS THE LIMITS OF DISTURBANCE
 - SEE SHEET 3.2 FOR SEDIMENT BASIN CHART SHOWING THE SKIMMER/ORIFICE SIZES
 - DIVERSION SWALE DESIGN, SEE SHEET 3.2 FOR DETAILS AND REFERENCE TABLE.
 - SEE SHEETS 2.2 TO 2.6 FOR SLOPE DRAIN PIPE SIZES.
 - SEE SHEET 3.2 FOR RIP RAP PAD SIZES.
 - SEE SHEETS 4.6-4.11 FOR SCM RISER AND PIPING SIZES.



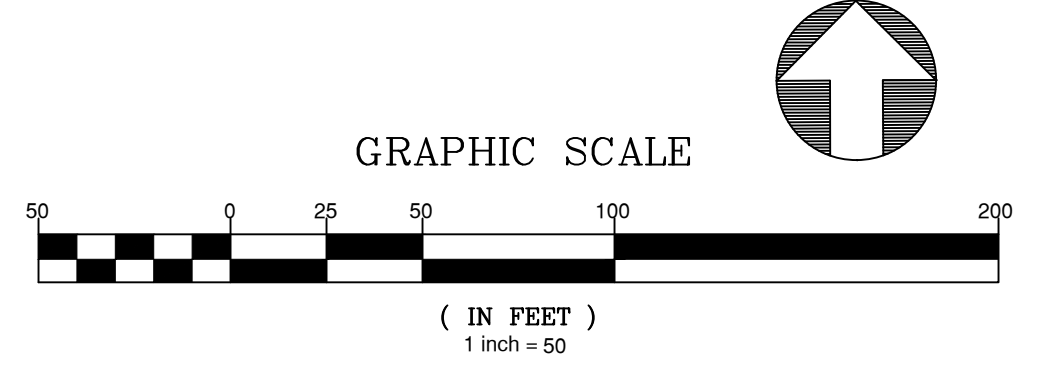
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GRAPHIC SCALE 1"=1000'

EROSION CONTROL LEGEND	
	100 YEAR FLOOD EASEMENT
	EXISTING TOPOGRAPHY
	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' NEUSE RIPARIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	BUILDING RESTRICTION LINE
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED GRADING
	PROPOSED EASEMENT
	PROPOSED 25 x 50 GRAVEL CONSTRUCTION ENTRANCE
	PROPOSED RIP RAP
	BASIN WEIR
	PROPOSED SEDIMENT BASIN
	PROPOSED INLET PROTECTION
	PROPOSED CHECK DAM
	PROPOSED SF OUTLET
	GREENWAY TRAIL HATCH
	PROPOSED AREAS FOR 7 DAY STABILIZATION
	PROPOSED EROSION CONTROL BLANKET
	PROPOSED BASIN MAINTENANCE PAD
	PROPOSED WATTLE
	PROPOSED TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
	PROPOSED SILTY FENCE/LIMITS OF DISTURBANCE
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	PROPOSED YARD INLET
	PROPOSED DROP INLET
	PROPOSED STORM WATER

- GENERAL NOTES:
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 - SEE SHEET 3.2 FOR RIP RAP PAD SIZES.
 - SEE SHEETS 4.6-4.11 FOR SCM RISER AND PIPING SIZES.



North Carolina 811
 *** 3 Days Before Digging ***
 North Carolina 811
 811 or 1-800-432-4949
 Remote Ticket Entry
<http://nc811.org/remoteticketentry.htm>

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

Professional Engineer Seal for Jack R. Harris, No. 9810, State of North Carolina.

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

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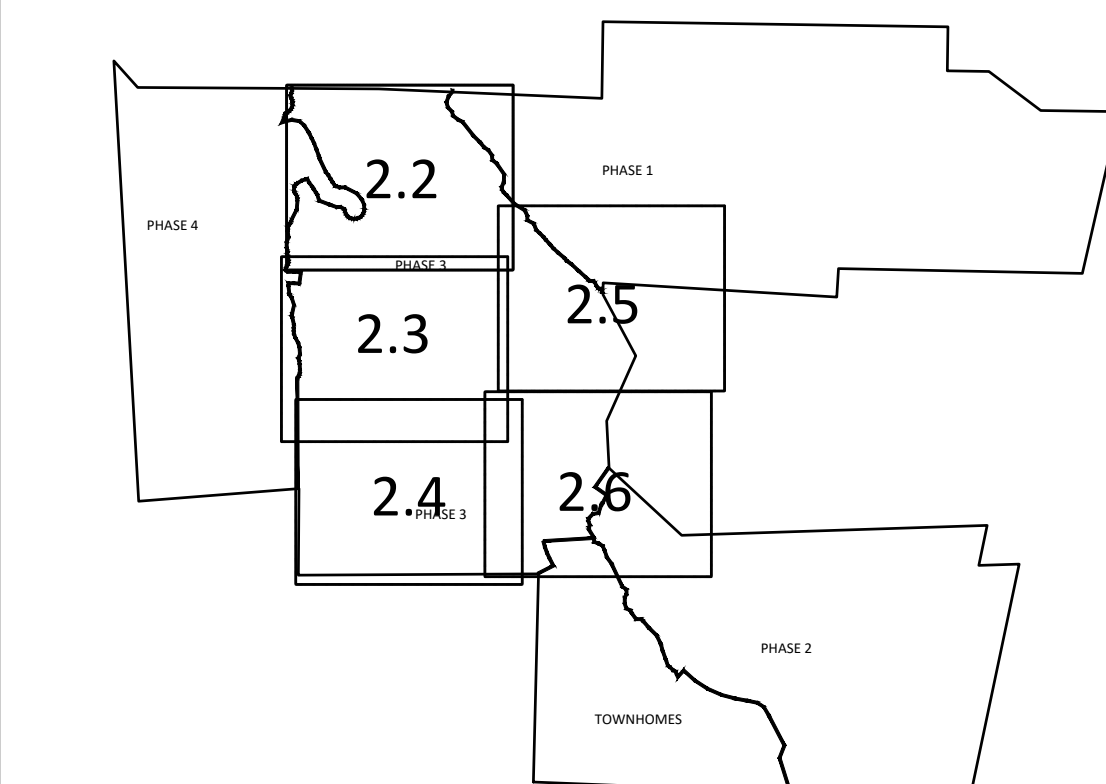
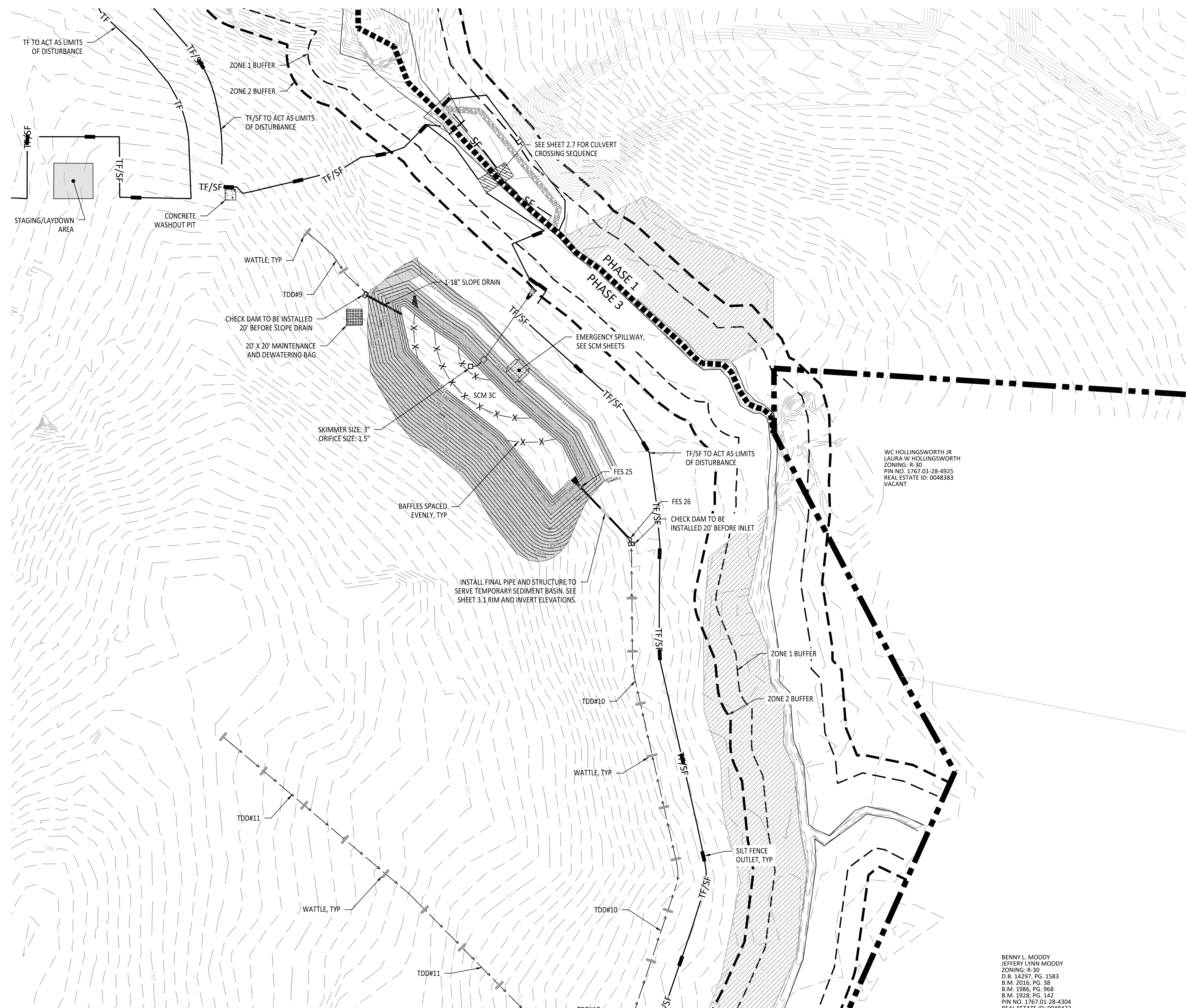
KALAS FALLS PHASE 3
 1832 ROLESVILLE ROAD
 WAKE COUNTY, NC

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

EROSION CONTROL STAGE 2

SHEET TITLE:
EROSION CONTROL STAGE 2

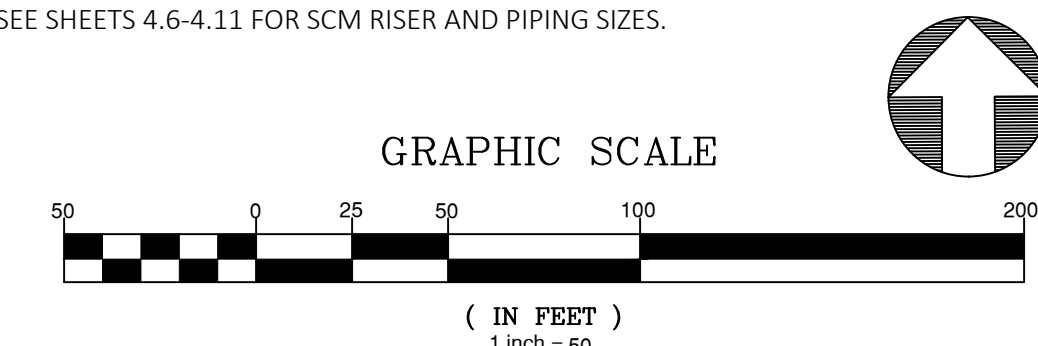
SHEET NO.:
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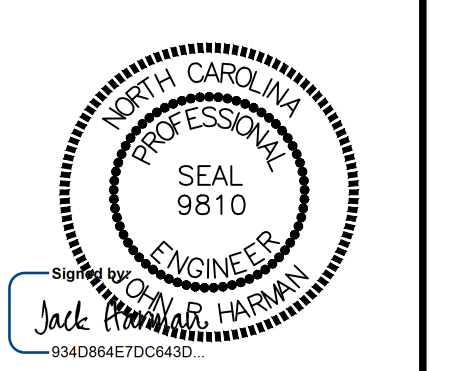
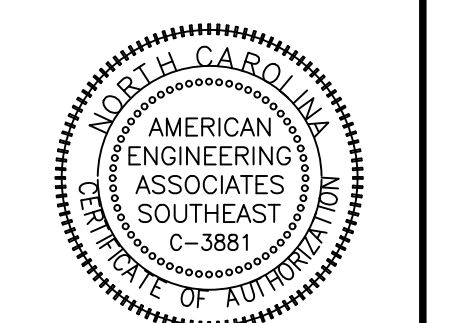
GRAPHIC SCALE 1"=100'

EROSION CONTROL LEGEND	
	100 YEAR FLOOD EASEMENT
	EXISTING TOPOGRAPHY
	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' NEUSE RIPERIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	BUILDING RESTRICTION LINE
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	PROPOSED BOC
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	PROPOSED RIP RAP
	BASIN WEIR
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	PROPOSED INLET PROTECTION
	PROPOSED CHECK DAM
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- GENERAL NOTES:
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BENNY L. MOODY
JEFFERY LYNN MOODY
ZONING: R-30
D.B. 14297, PG. 1583
B.M. 2016, PG. 38
B.M. 1986, PG. 968
B.M. 1926, PG. 142
PIN NO. 1767.01-28-4304
RFAL FSTATF ID: 01484292

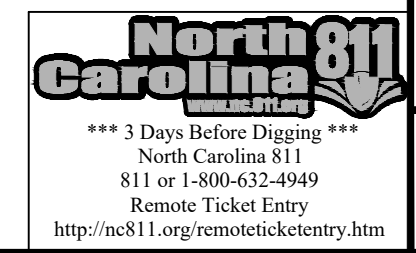


NO.	DATE	REVISION
1	7/27/2021	ISSUE FOR REVIEW AND CITY OF RALEIGH
2	9/14/2023	TAKE UP OF RALEIGH CONSULTANT COMMENTS
3	11/07/2023	CONSTRUCTION DRAWING COMMENT RESPONSES

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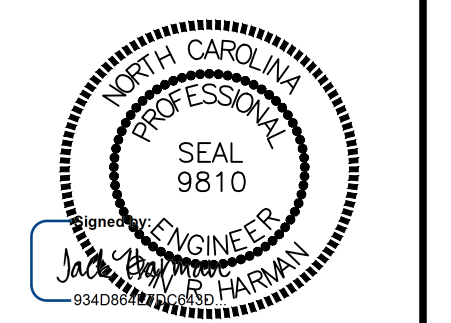
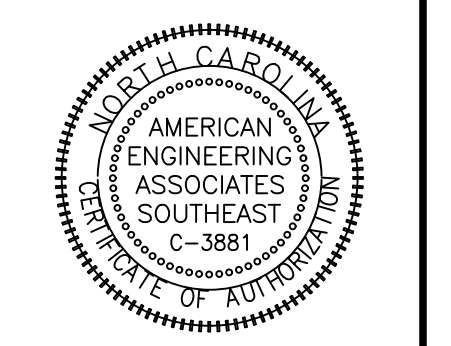
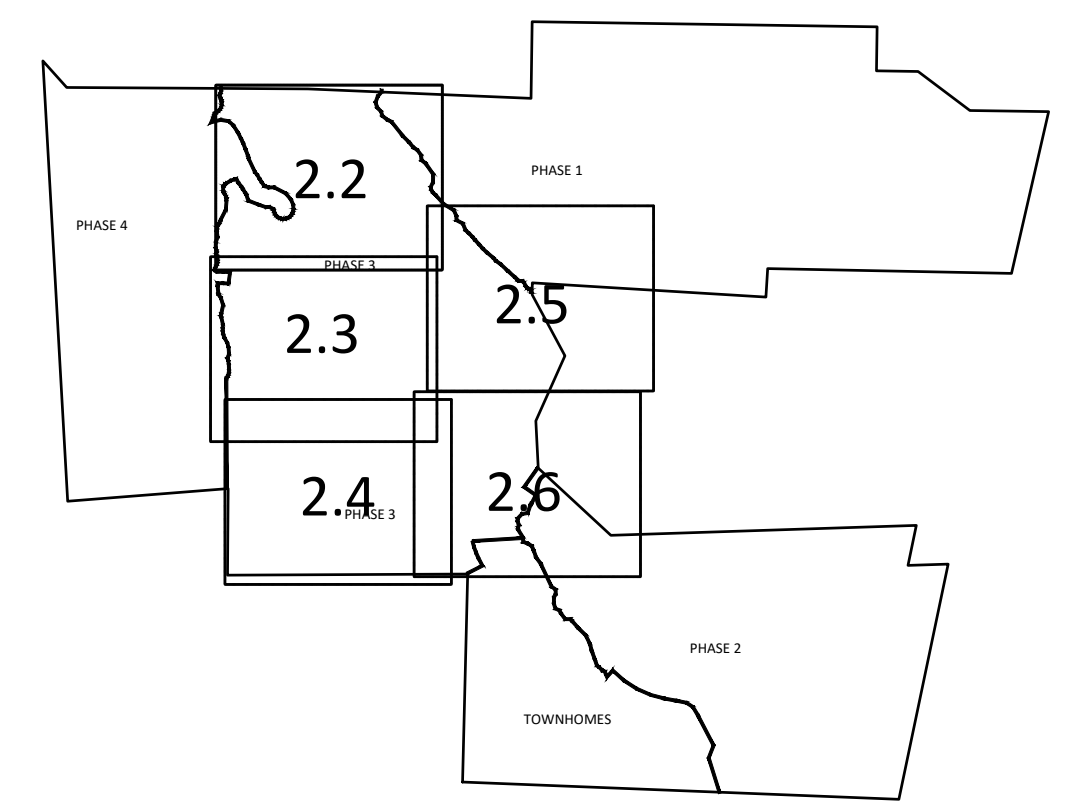
**KALAS FALLS
PHASE 3
1832 ROLESVILLE ROAD
WAKE COUNTY, NC**

JOB NUMBER: 9900
CHECKED BY: BH/JH
DRAWN BY: SM/MALL/ES/AH/DH
DATE: NOV 1, 2024
SHEET TITLE:
**EROSION CONTROL
STAGE 2**
SHEET NO.:
2.5



D.W.P. 4/24/20, P.L. 20
B.M. 1986, PG. 968
B.M. 1928, PG. 142
PIN NO. 1767.01-28-4304
REAL ESTATE ID: 0048422

GRAPHIC SCALE 1"=100'



EROSION CONTROL LEGEND	
	100 YEAR FLOOD EASEMENT
	EXISTING TOPOGRAPHY
	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' NEUSE RIPERIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	BUILDING RESTRICTION LINE
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED GRADING
	PROPOSED EASEMENT
	PROPOSED 25 x 50 GRAVEL CONSTRUCTION ENTRANCE
	PROPOSED RIP RAP
	BASIN WEIR
	PROPOSED SEDIMENT BASIN
	PROPOSED INLET PROTECTION
	PROPOSED CHECK DAM
	PROPOSED SF OUTLET
	GREENWAY TRAIL HATCH
	PROPOSED AREAS FOR 7 DAY STABILIZATION
	PROPOSED EROSION CONTROL BLANKET
	PROPOSED BASIN MAINTENANCE PAD
	PROPOSED WATTLE
	PROPOSED SILT FENCE
	PROPOSED TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
	PROPOSED SILT FENCE/LIMITS OF DISTURBANCE
	PROPOSED DIVERSION DITCH
	PROPOSED SWALE
	PROPOSED JUNCTION BOX
	PROPOSED CATCH BASIN
	PROPOSED YARD INLET
	PROPOSED DROP INLET
	PROPOSED STORM WATER

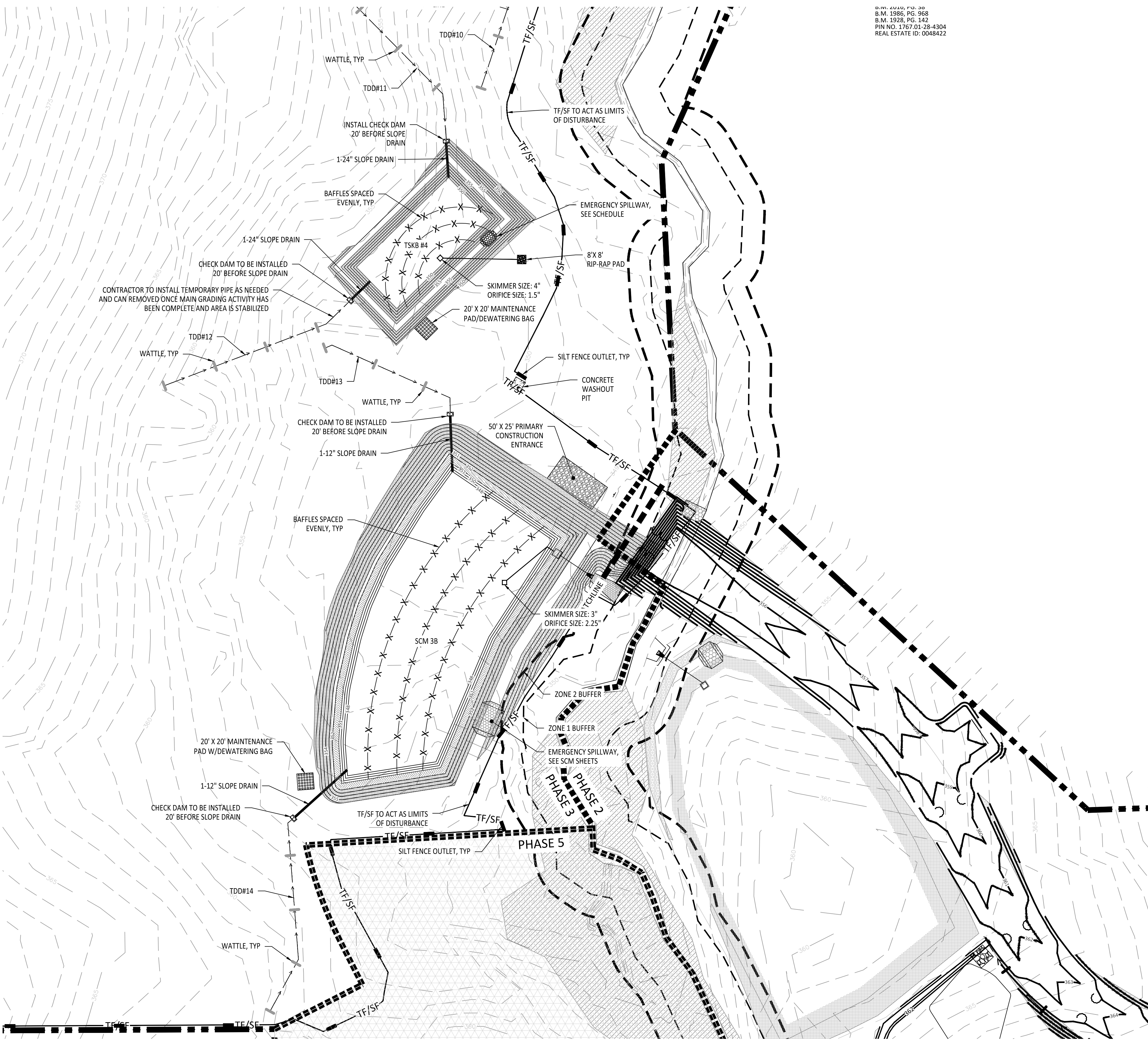
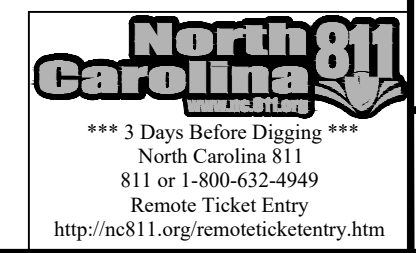
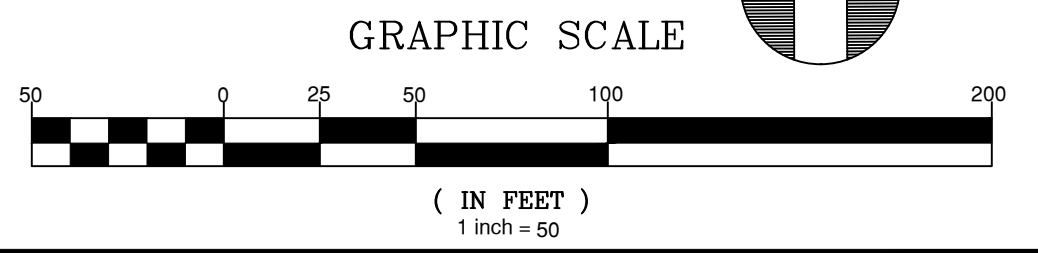
NO.	DATE	REVISION
1	7/27/2021	ISSUE FOR REVIEW AND CITY OF RALEIGH
2	9/4/2024	TOWN OF ROLESVILLE CONSULTANT COMMENTS
3	11/07/2024	CONSTRUCTION DRAWING COMMENT RESPONSES

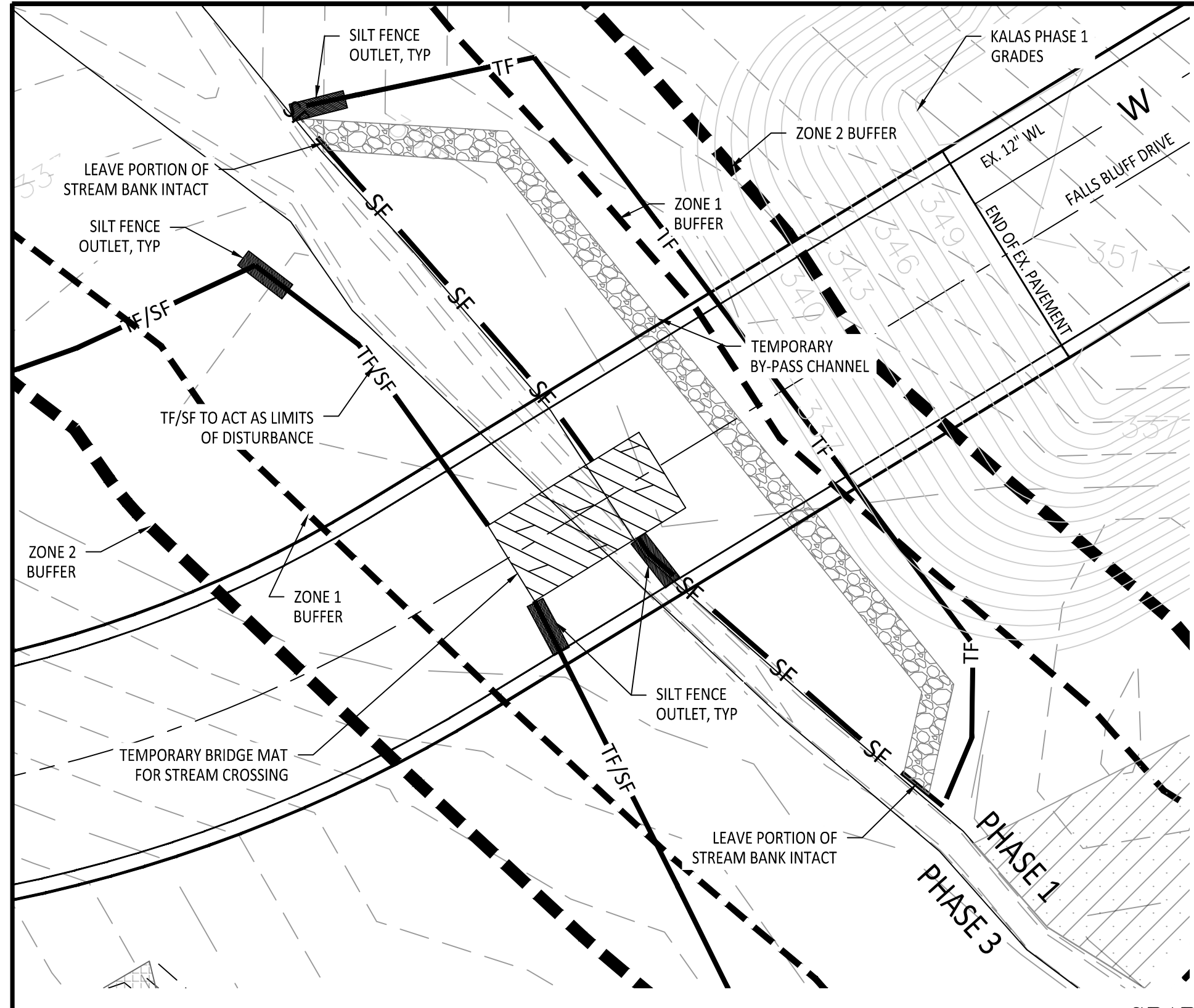
STIPULATION FOR REUSE
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KALAS FALLS PHASE 3
 1832 ROLESVILLE ROAD
 WAKE COUNTY, NC

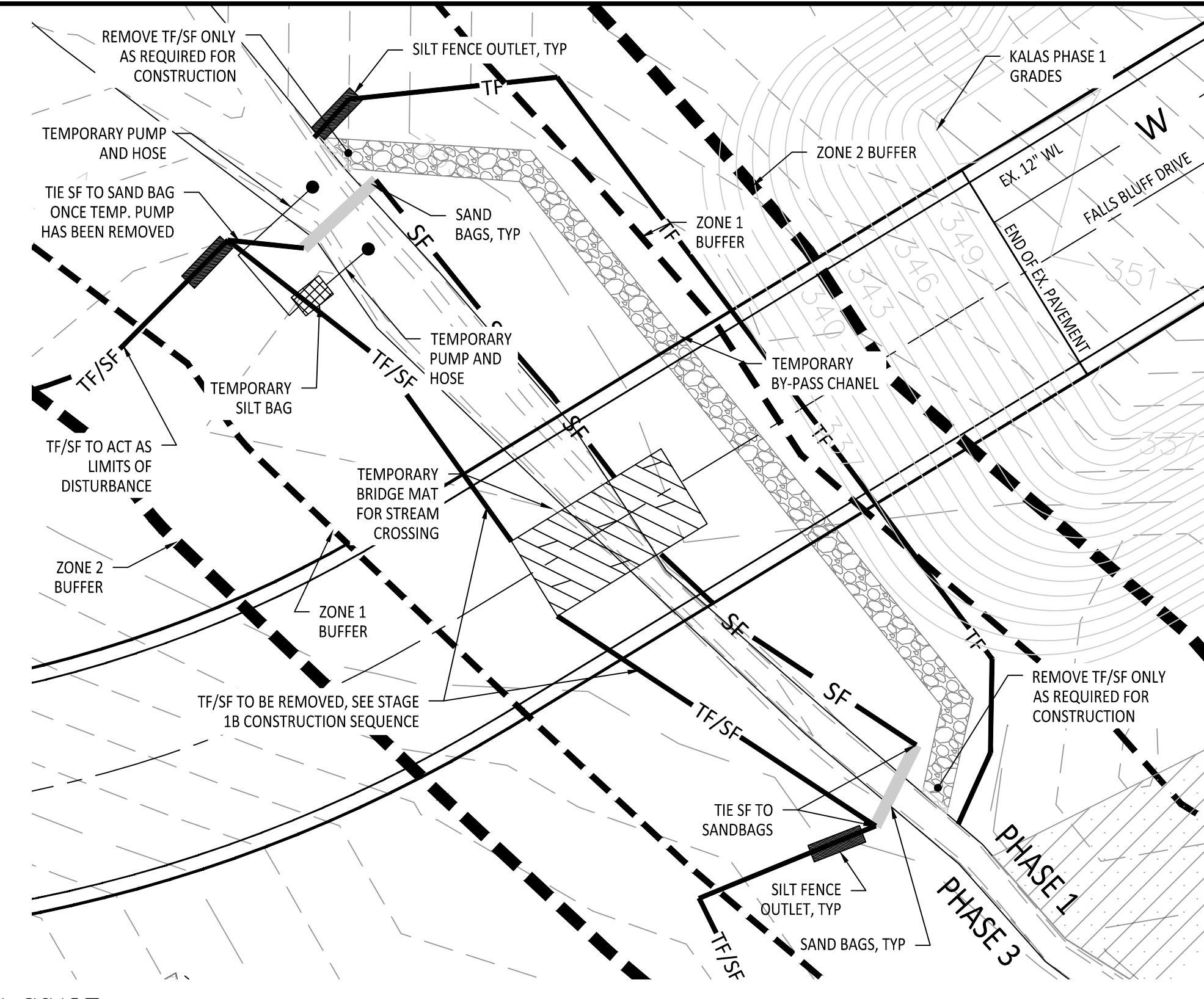
JOB NUMBER: 9900
 CHECKED BY: BH/JH
 DRAWN BY: SMM/ALL/ES/AH/DH
 DATE: NOV 1, 2024
 SHEET TITLE:
EROSION CONTROL STAGE 2
 SHEET NO.:
2.6

- GENERAL NOTES:**
- ALL SEDIMENT TRAPS/PONDS SHALL BE STABILIZED WITHIN 7 DAYS OF INSTALLATION.
 - WATTLE/CHECK DAM ARE TO BE PLACED EVERY 3 TO 4 FT VERTICALLY.
 - THE COMBINATION TREE FENCE/SILT FENCE IS TO ACT AS THE LIMITS OF DISTURBANCE
 - SEE SHEET 3.2 FOR SEDIMENT BASIN CHART SHOWING THE SKIMMER/ORIFICE SIZES
 - DIVERSION SWALE DESIGN, SEE SHEET 3.2 FOR DETAILS AND REFERENCE TABLE.
 - SEE SHEETS 2.2 TO 2.6 FOR SLOPE DRAIN PIPE SIZES.
 - SEE SHEET 3.2 FOR RIP RAP PAD SIZES.
 - SEE SHEETS 4.6-4.11 FOR SCM RISER AND PIPING SIZES.

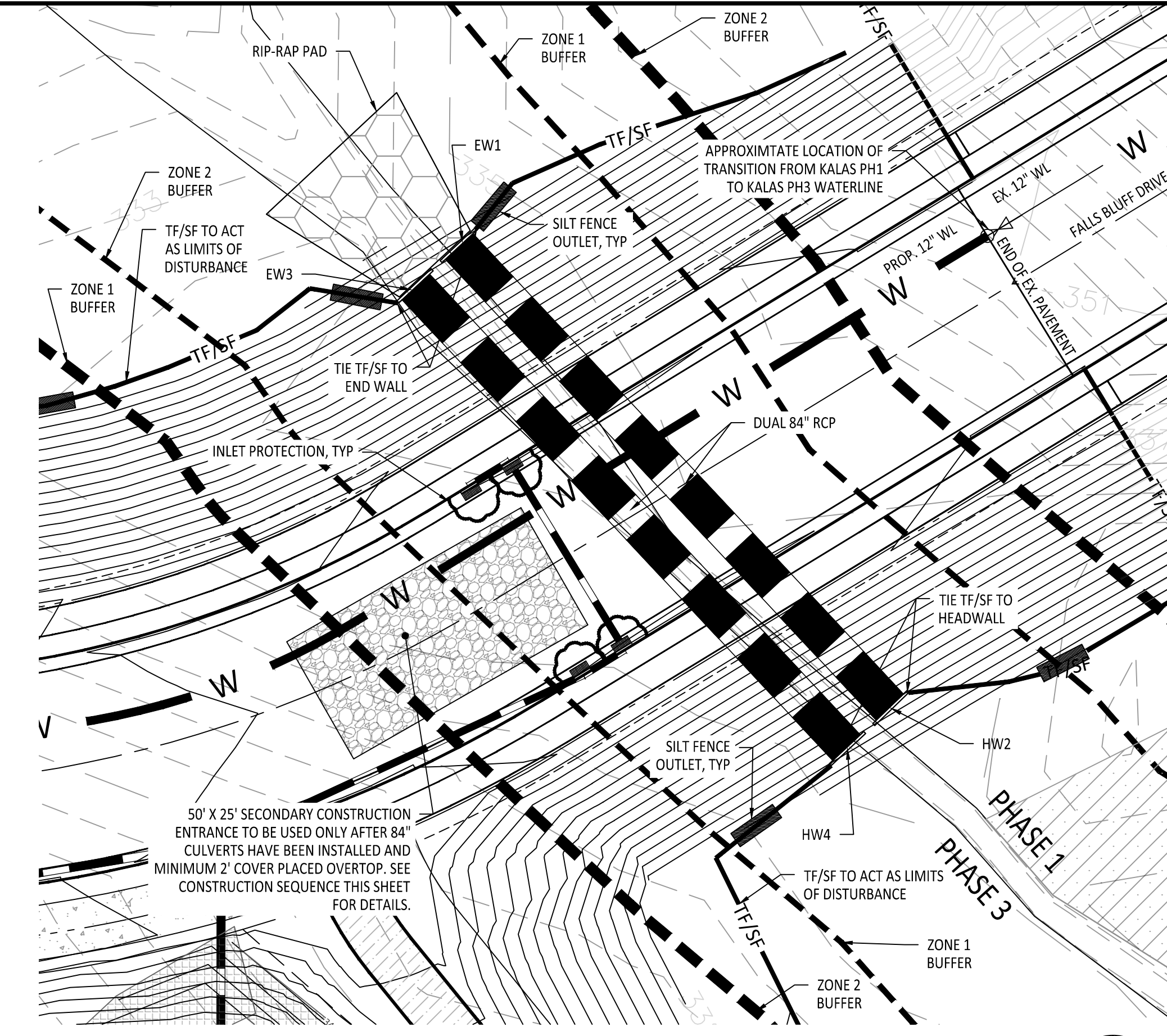




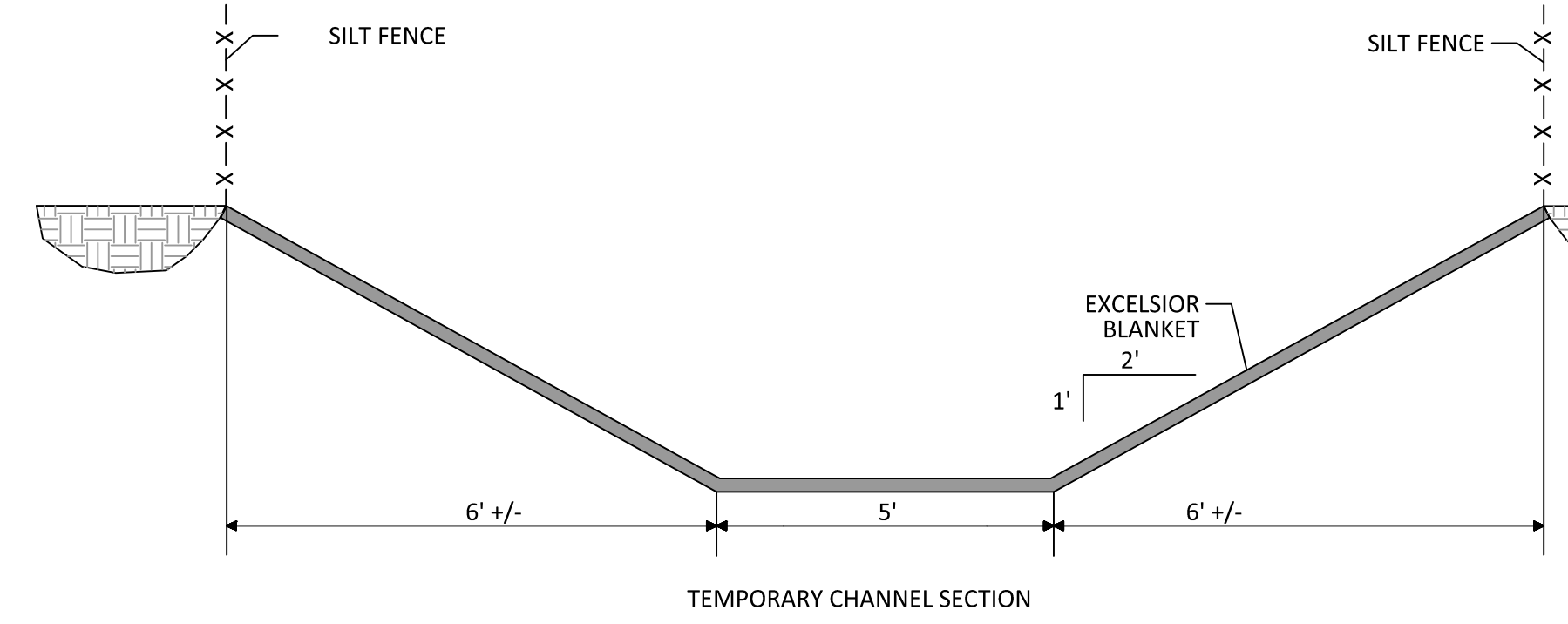
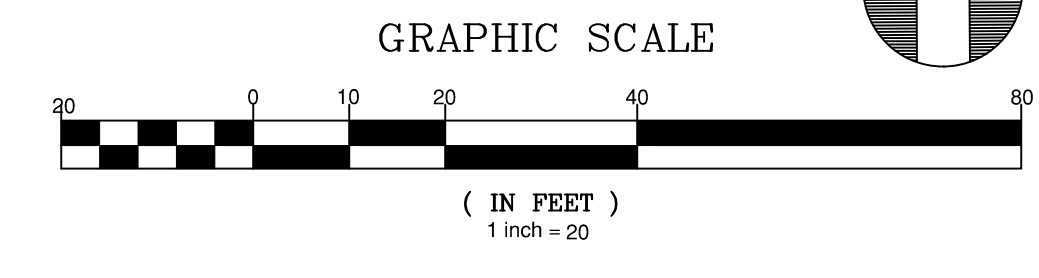
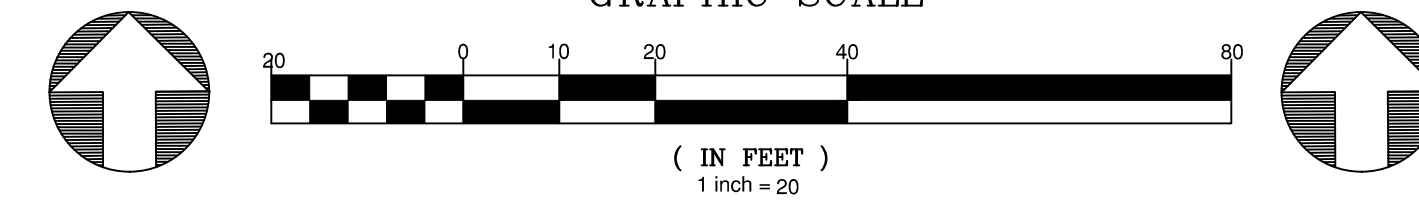
INITIAL STREAM CROSSING



INTERMEDIATE STREAM CROSSING



FINAL STREAM CROSSING



TEMPORARY CHANNEL SECTION

SEQUENCE FOR DUAL 84" RCP CULVERT CROSSING USING BY-PASS CHANNEL

STAGE 1A CREEK CROSSING INSTALLATION

1. CONDUCT MEETING WITH WAKE COUNTY INSPECTOR PRIOR TO PROCEEDING WITH THE STREAM CROSSING CONSTRUCTION.
2. INSTALL THE BRIDGE MAT, SILT FENCE, AND BY-PASS CHANNEL WITH LINING, AS SHOWN IN THE INITIAL STREAM CROSSING LEAVING A PORTION OF THE STREAM BANK ON EACH END TO ACT AS A DAM TO PREVENT WATER FLOW DURING CONSTRUCTION OF THE CHANNEL. (STEPS 3 - 7 SHOULD BE ACCOMPLISHED DURING ONE WORKDAY).
3. DURING A PERIOD OF DRY WEATHER REMOVE THE DOWNSTREAM DAM AND CONSTRUCT THE REMAINDER OF THE CHANNEL TO THE EXISTING STREAM BED. NOTE, REMOVE SILT FENCE ONLY AS REQUIRED TO CONSTRUCT THE REMAINDER OF THE BY-PASS CHANNEL.
4. ADD SANDBAGS ACROSS THE DOWNSTREAM END OF THE STREAM, JUST ABOVE THE POINT WHERE THE BY-PASS CHANNEL RE-ENTERS THE STREAM TO PREVENT BACKFLOW.
5. REMOVE THE UPSTREAM DAM AND CONSTRUCT THE REMAINDER OF THE CHANNEL ON THAT END INCLUDING LINING. NOTE, REMOVE SILT FENCE ONLY AS REQUIRED TO CONSTRUCT THE REMAINDER OF THE BY-PASS CHANNEL.
6. ADD SANDBAGS ACROSS THE STREAM AT THE UPSTREAM END TO FORCE THE STREAM FLOW INTO THE BY-PASS CHANNEL.
7. SEED/SOD AND STABILIZE ALL DENuded AREAS ONCE THE CHANNEL IS IN PLACE.

STAGE 1B CREEK CROSSING INSTALLATION

1. OBTAIN PERMISSION FROM THE WAKE COUNTY INSPECTOR TO PROCEED WITH THIS STEP.
2. INSTALL TEMPORARY HOSE AND PUMP WITH SILT BAG TO ALLOW FOR PUMP DOWN OF THE WORK AREA.

PUMPS TO BE USED AS NEEDED.

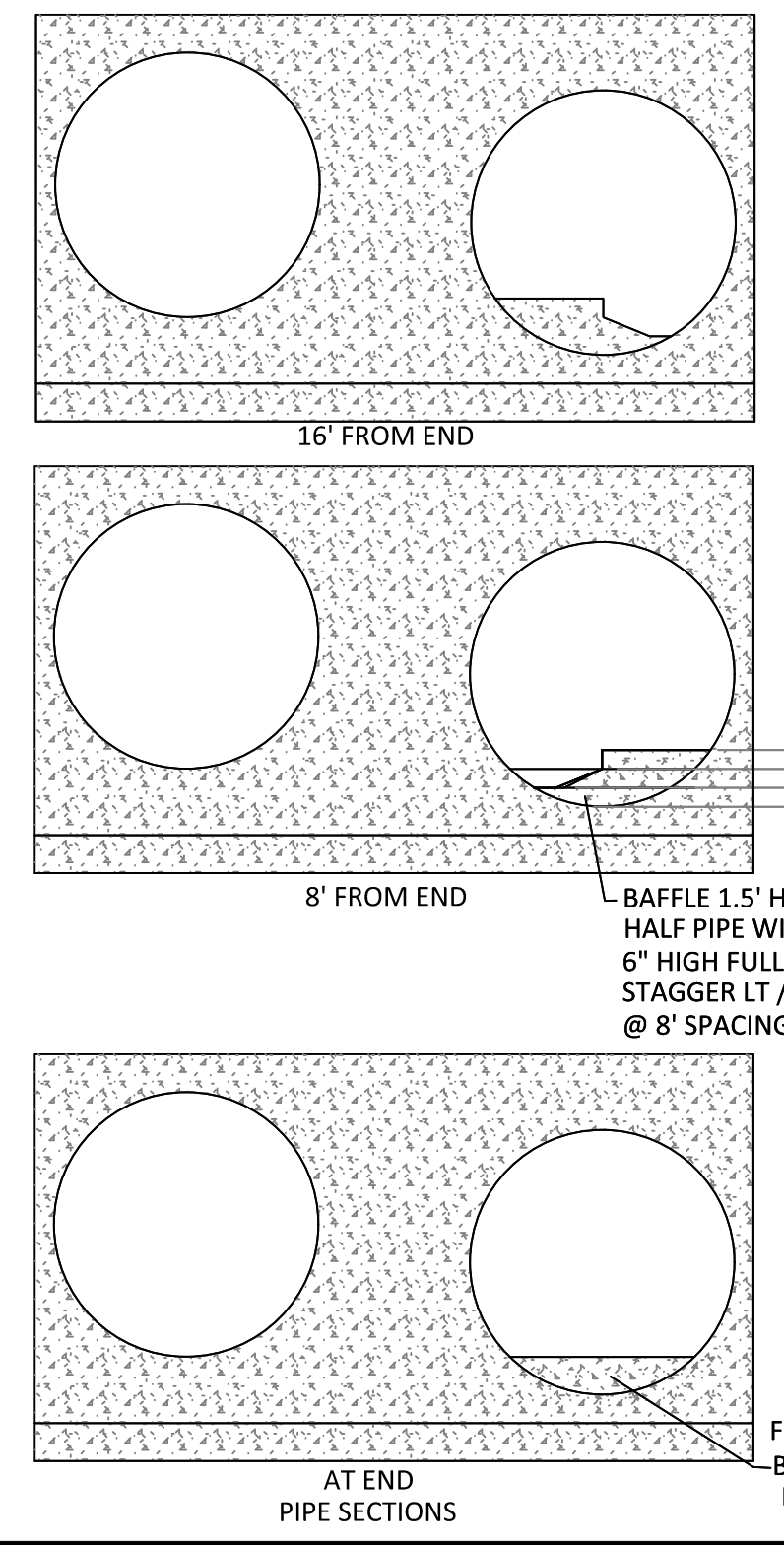
3. ONCE THE STREAM HAS BEEN PUMPED DOWN AND THE SILT FENCE HAS BEEN TIED TO THE SANDBAGS AS SHOWN, REMOVE THE SILT FENCE AS SHOWN IN THE INTERMEDIATE STAGE
4. EXCAVATE AREA AS SHOWN AND INSTALL PIPE WITH HEADWALLS AND DOWNSTREAM RIP RAP AS SHOWN IN RIP-RAP CROSS-SECTION.
5. OBTAIN WAKE COUNTY APPROVAL OF THE PIPE INSTALLATION.

STAGE 1C CREEK CROSSING INSTALLATION

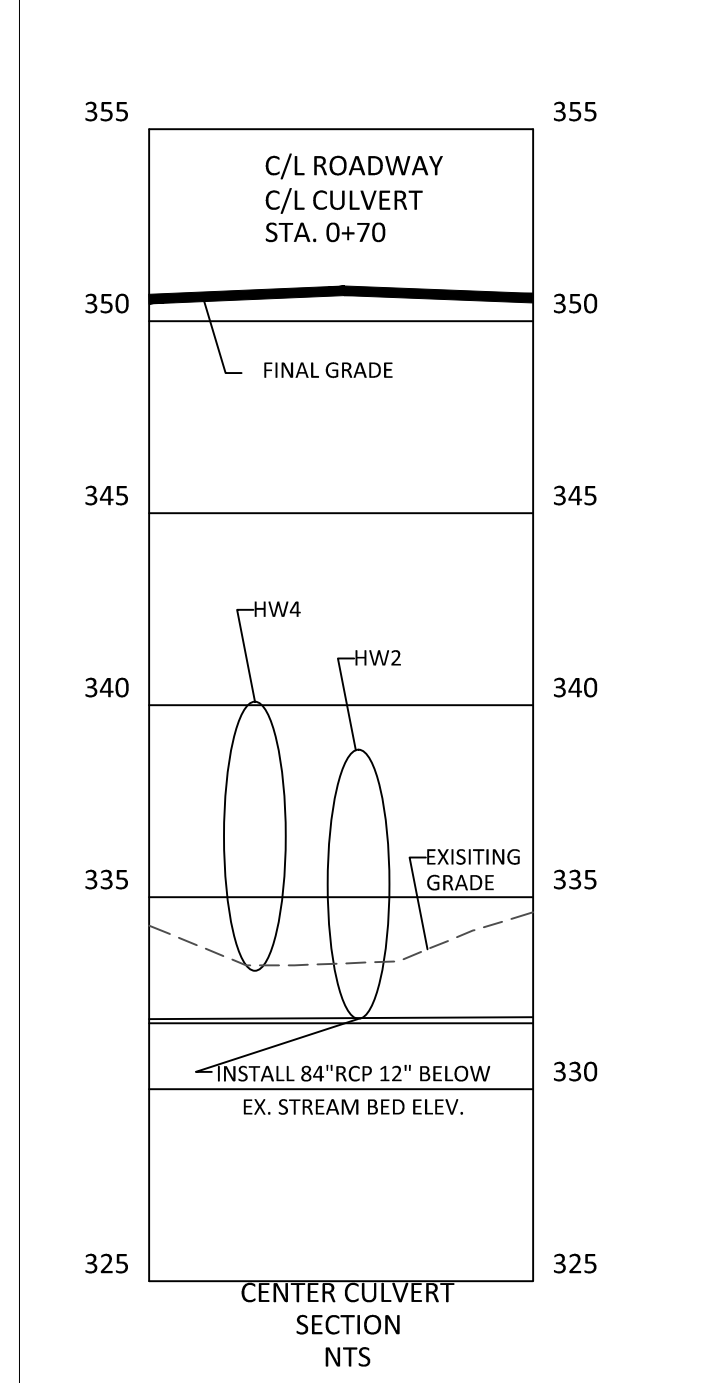
1. REMOVE TEMPORARY SANDBAGS ON DOWNSTREAM END.
2. REMOVE TEMPORARY SANDBAGS ON UPSTREAM END.
3. REMOVE LINING ON UPSTREAM END OF BY-PASS CHANNEL AND INSTALL EARTHEN DAM ACROSS THE UPSTREAM END OF THE BY-PASS CHANNEL TO FORCE STREAM FLOW THROUGH THE PIPE.
4. INSTALL EARTHEN DAM ACROSS THE DOWNSTREAM END OF THE BY-PASS CHANNEL AFTER REMOVING THE LINING TO PREVENT WATER FROM RE-ENTERING THE BY-PASS CHANNEL.
5. REMOVE THE REMAINDER OF THE BY-PASS CHANNEL LINING AND FILL THE BY-PASS CHANNEL COMPACTING THOROUGHLY IN LAYERS.
6. INSTALL SILT FENCE AT THE TOE OF SLOPES AND TIE TO ENDWALLS AS SHOWN ON THIS PLAN.
7. COMPLETE FILL AROUND THE PIPE TO A LEVEL AT LEAST TWO (2) FEET ABOVE THE TOP OF THE PIPE TO ALLOW CONSTRUCTION EQUIPMENT TO PASS OVER IT. ONLY AFTER THE FILL AROUND THE PIPE HAS BEEN INSTALLED AS SPECIFIED, MAY THIS AREA BE USED AS A SECONDARY CONSTRUCTION ENTRANCE.
8. COMPLETE FILL BRINGING THE AREA TO FINISHED GRADE.
9. INSTALL PAVEMENT AND FOLLOW THE SEEDING SCHEDULE FOR ALL BARE AREAS.
10. REFER TO MAIN CONSTRUCTION SEQUENCE FOR OTHER DETAILS.

GENERAL NOTES

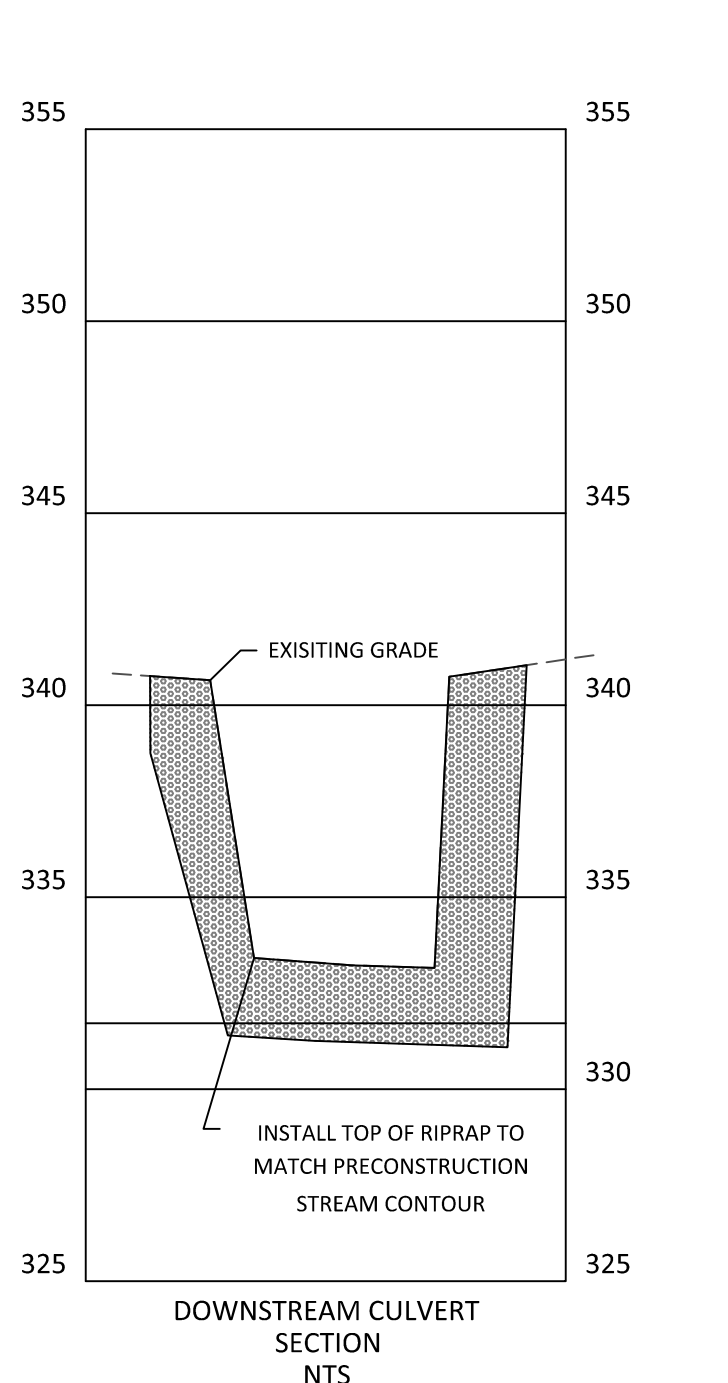
1. CONTRACTOR TO DIVERT ANY STORM RUNOFF FROM THE EXISTING PHASE 1 DEVELOPMENT AS NEEDED WHEN TYING INTO THE EXISTING ROAD.
2. CONTRACTOR MAY USE A CLEAN WATER PUMP AROUND IN PLACE OF A BY-PASS CHANNEL. THE Q10 FLOW IS 408 CFS. CONTRACTOR IS RESPONSIBLE FOR PUMP SIZING.



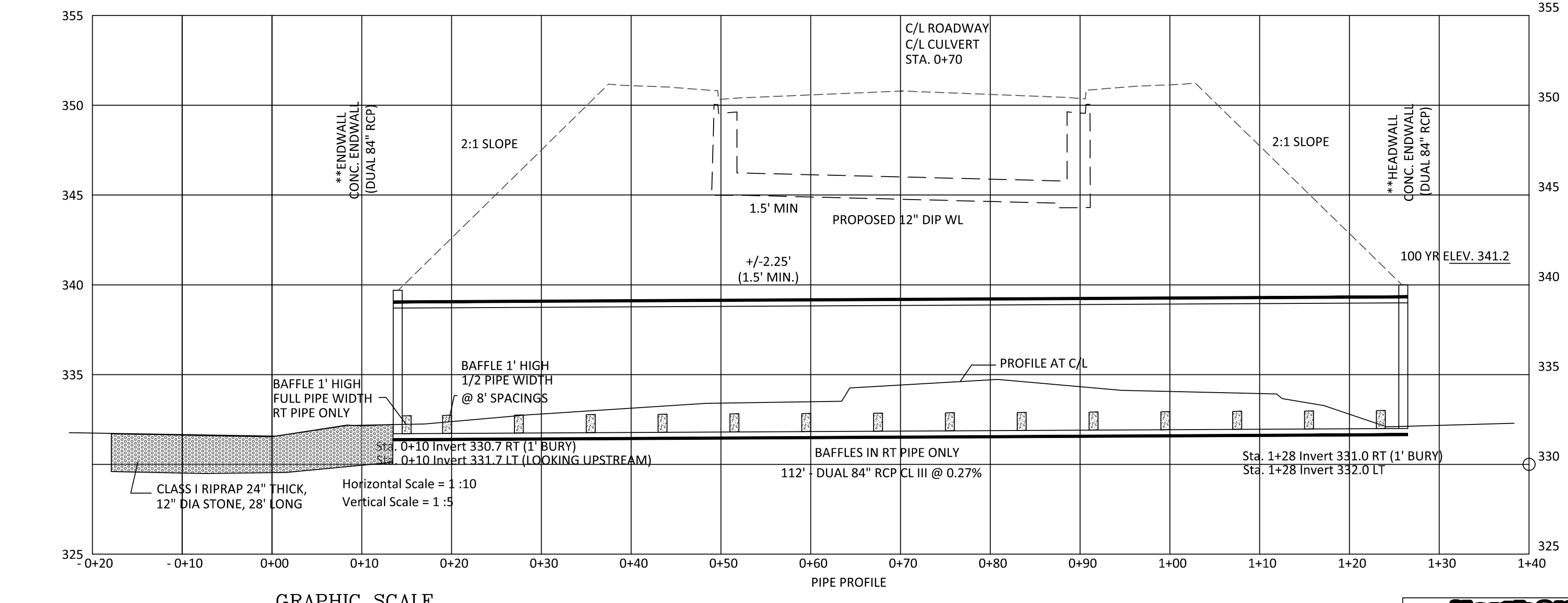
AT END PIPE SECTIONS



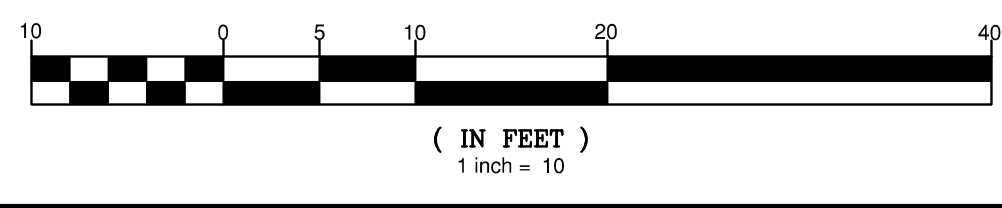
CENTER CULVERT SECTION NTS



DOWNSTREAM CULVERT SECTION NTS



PROFILE AT C/L



**HEADWALL AND ENDWALL TO BE NCDOT STANDARD SEE SHEET CDB

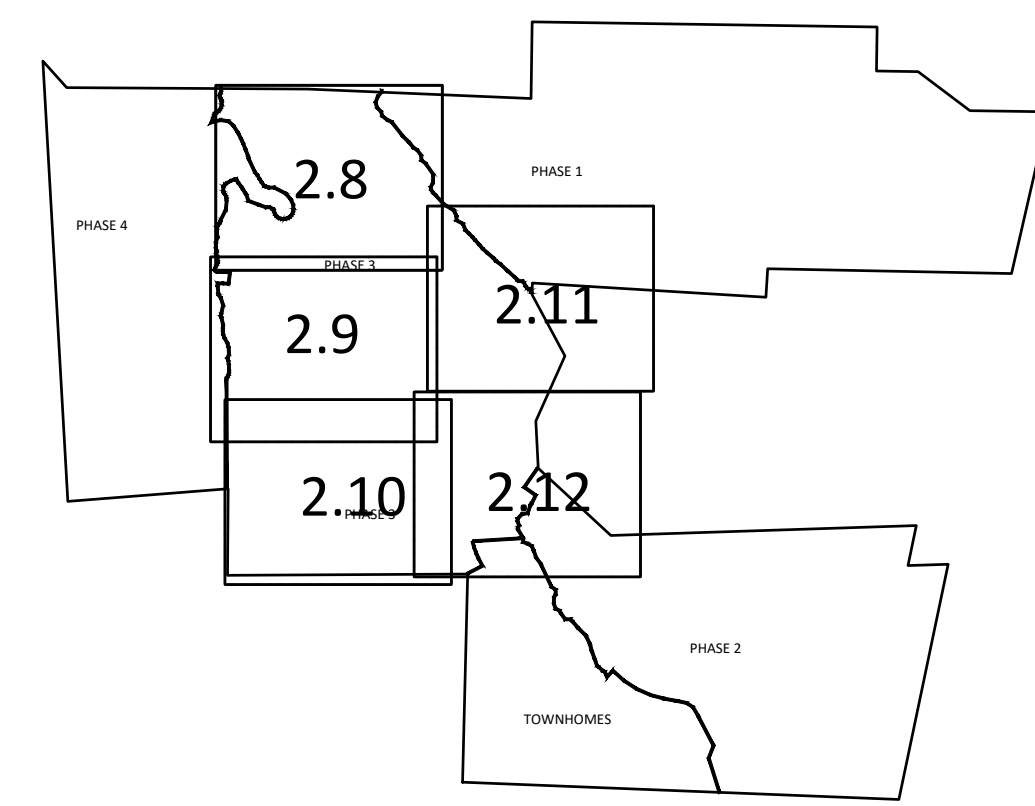
NO.	DATE	REVISION
1	7/2/2021	REVISED FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH
2	9/4/2024	TOWN OF ROLESVILLE CONSULTANT COMMENTS
3	11/20/2024	CONSTRUCTION DRAWING COMMENT RESPONSES

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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

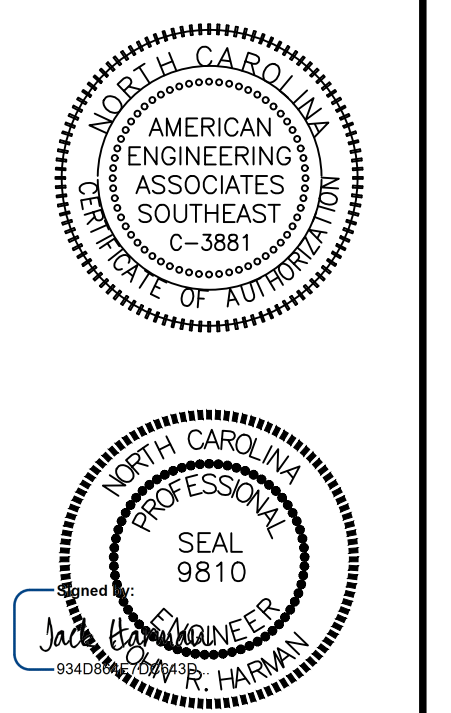
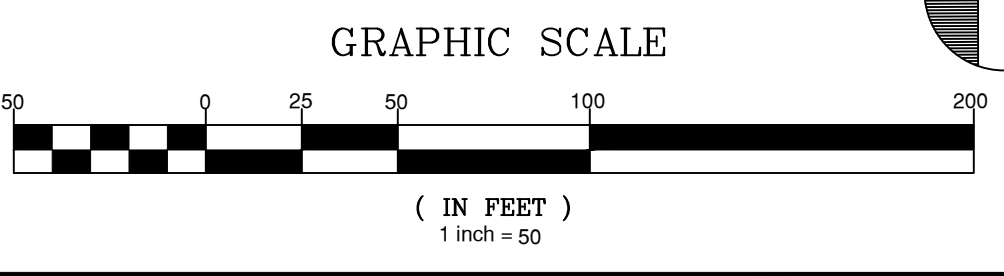
CULVERT CROSSING ON FALLS BLUFF DR
 SHEET TITLE:
 SHEET NO.: 2.7



GRAPHIC SCALE 1"=100'

EROSION CONTROL LEGEND	
	100 YEAR FLOOD EASEMENT
	EXISTING TOPOGRAPHY
	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' NEUSE RIPERIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	BUILDING RESTRICTION LINE
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED GRADING
	PROPOSED EASEMENT
	PROPOSED 25 x 50 GRAVEL CONSTRUCTION ENTRANCE
	PROPOSED RIP RAP
	BASIN WEIR
	PROPOSED SEDIMENT BASIN
	PROPOSED INLET PROTECTION
	PROPOSED CHECK DAM
	PROPOSED SF OUTLET
	GREENWAY TRAIL HATCH
	STABILIZATION HATCH FOR 3:1 SLOPES LESS THAN 8FT VERTICAL
	STABILIZATION HATCH FOR 3:1 SLOPES MORE THAN 8FT VERTICAL OR SLOPES GREATER THAN 50' IN LENGTH
	STABILIZATION HATCH FOR 2:1 SLOPES LESS THAN 8FT VERTICAL
	STABILIZATION HATCH FOR 2:1 SLOPES GREATER THAN 8FT VERTICAL
	PROPOSED BASIN MAINTENANCE PAD
	PROPOSED WATTLE
	PROPOSED SILT FENCE
	PROPOSED TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
	PROPOSED COMBINATION FENCE/LIMITS OF DISTURBANCE
	PROPOSED DIVERSION DITCH
	PROPOSED SWALE
	PROPOSED JUNCTION BOX
	PROPOSED CATCH BASIN
	PROPOSED YARD INLET
	PROPOSED DROP INLET
	PROPOSED STORM WATER

- GENERAL NOTES:
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 - SEE SHEET 3.2 FOR SEDIMENT BASIN CHART SHOWING THE SKIMMER/ORIFICE SIZES
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 - SEE SHEETS 2.2 TO 2.6 FOR SLOPE DRAIN PIPE SIZES.
 - SEE SHEET 3.2 FOR RIP RAP PAD SIZES.
 - SEE SHEETS 4.6-4.11 FOR SCM RISER AND PIPING SIZES.

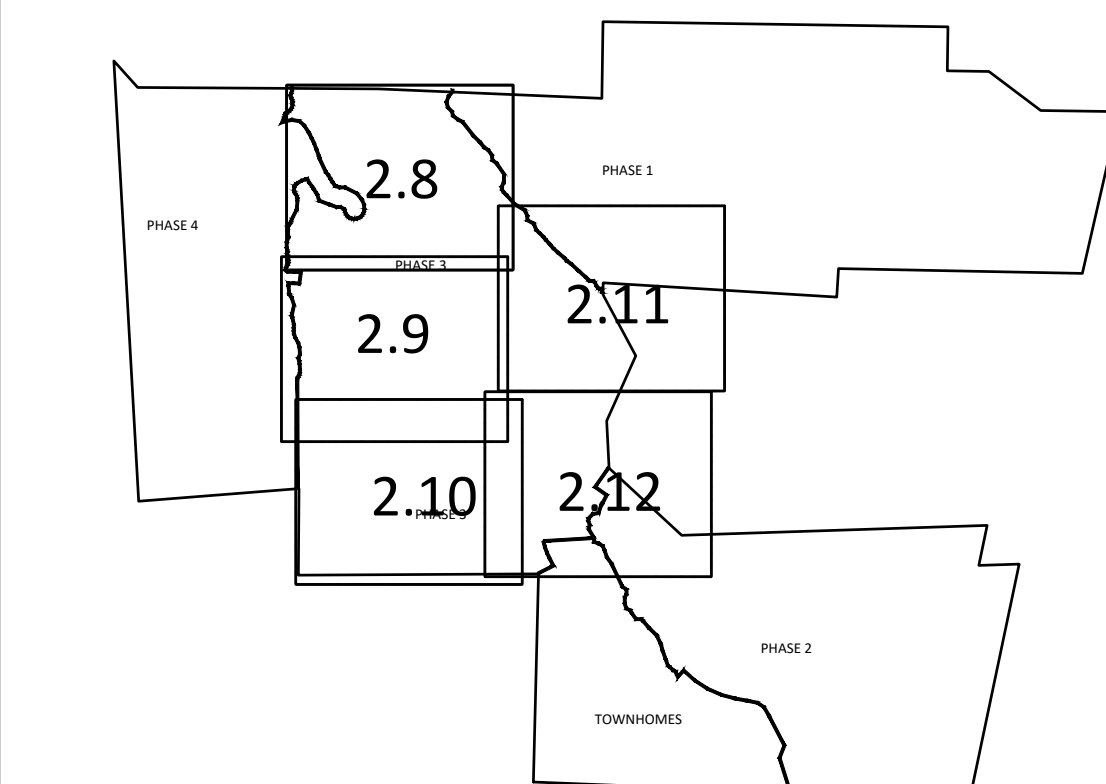


NO.	DATE	REVISION
1	7/27/2017	ISSUED FROM TOWN OF ROLESVILLE CONSULTANT, REVISION, WAKE COUNTY AND CITY OF RALEIGH
2	9/4/2024	TOWN OF ROLESVILLE CONSULTANT COMMENTS
3	11/07/2024	CONSTRUCTION DRAWING COMMENT RESPONSES

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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: EROSION CONTROL STAGE 3
 SHEET NO.: 2.8

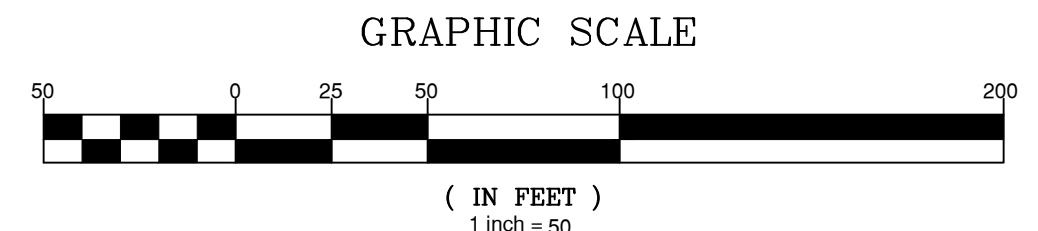


GRAPHIC SCALE 1"=1000'

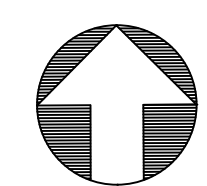
EROSION CONTROL LEGEND	
---	100 YEAR FLOOD EASEMENT
(contour lines)	EXISTING TOPOGRAPHY
---	EXISTING BOUNDARY
(hatched area)	EXISTING WETLANDS AREA
---	EXISTING 50' NEUSE RIPERIAN BUFFER
---	EXISTING BUFFER ZONES
---	PROPOSED LOT LINE
---	BUILDING RESTRICTION LINE
---	PROPOSED ROW
---	PROPOSED SIDEWALK
---	PROPOSED BOC
---	PROPOSED EOP
---	PROPOSED CENTERLINE
---	PROPOSED GRADING
---	PROPOSED EASEMENT
(stippled area)	PROPOSED 25' x 50' GRAVEL CONSTRUCTION ENTRANCE
(trapezoid)	PROPOSED RIP RAP
(rectangle with triangle)	BASIN WEIR
(rectangle with layers)	PROPOSED SEDIMENT BASIN
(circle with X)	PROPOSED INLET PROTECTION
(square with X)	PROPOSED CHECK DAM
(square with vertical lines)	PROPOSED SF OUTLET
(square with diagonal lines)	GREENWAY TRAIL HATCH
(square with diagonal lines)	STABILIZATION HATCH FOR 3:1 SLOPES LESS THAN 8FT VERTICAL
(square with diagonal lines)	STABILIZATION HATCH FOR 3:1 SLOPES MORE THAN 8FT VERTICAL OR SLOPES GREATER THAN 50' IN LENGTH
(square with diagonal lines)	STABILIZATION HATCH FOR 2:1 SLOPES LESS THAN 8FT VERTICAL
(square with diagonal lines)	STABILIZATION HATCH FOR 2:1 SLOPES GREATER THAN 8FT VERTICAL
(square with diagonal lines)	PROPOSED BASIN MAINTENANCE PAD
(line with vertical dashes)	PROPOSED WATTLE
(line with vertical dashes)	PROPOSED SILT FENCE
(line with vertical dashes)	PROPOSED TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
(line with vertical dashes)	PROPOSED COMBINATION FENCE/LIMITS OF DISTURBANCE
(line with vertical dashes)	PROPOSED DIVERSION DITCH
(line with vertical dashes)	PROPOSED SWALE
(line with vertical dashes)	PROPOSED JUNCTION BOX
(line with vertical dashes)	PROPOSED CATCH BASIN
(line with vertical dashes)	PROPOSED YARD INLET
(line with vertical dashes)	PROPOSED DROP INLET
(line with vertical dashes)	PROPOSED STORM WATER

GENERAL NOTES:

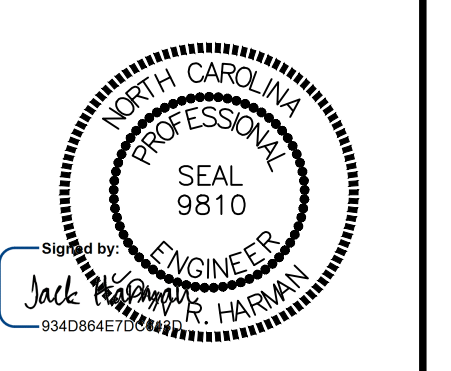
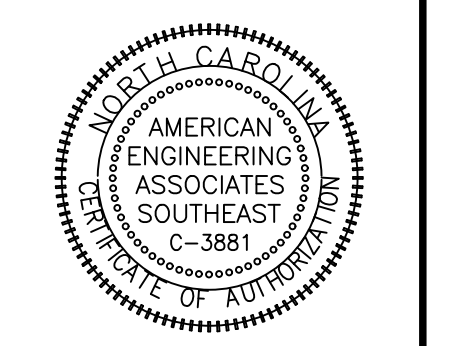
- ALL SEDIMENT TRAPS/PONDS SHALL BE STABILIZED WITHIN 7 DAYS OF INSTALLATION.
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- SEE SHEET 3.2 FOR RIP RAP PAD SIZES.
- SEE SHEETS 4.6-4.11 FOR SCM RISER AND PIPING SIZES.



GRAPHIC SCALE 1"=50'



(IN FEET)
1 inch = 50'

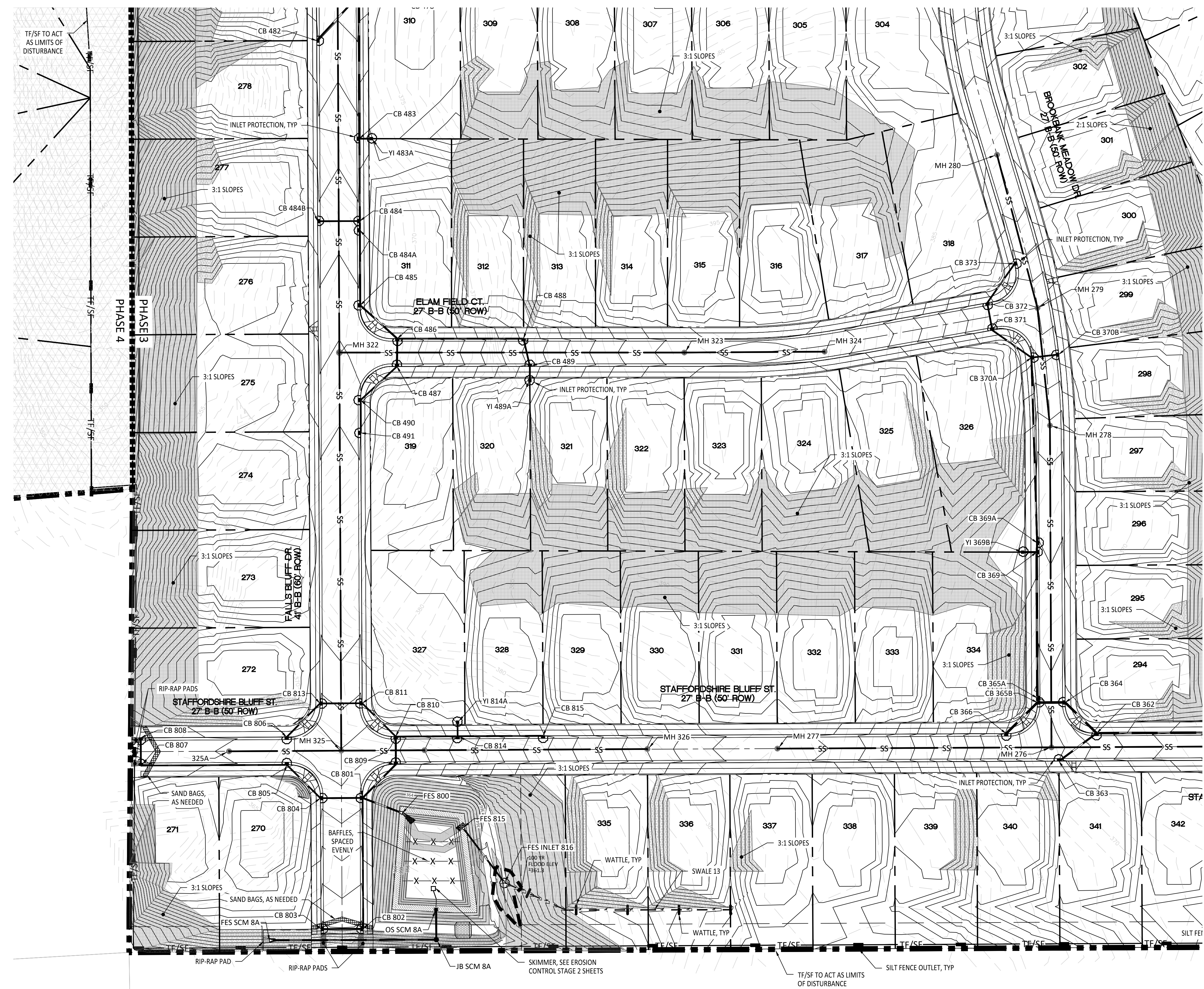
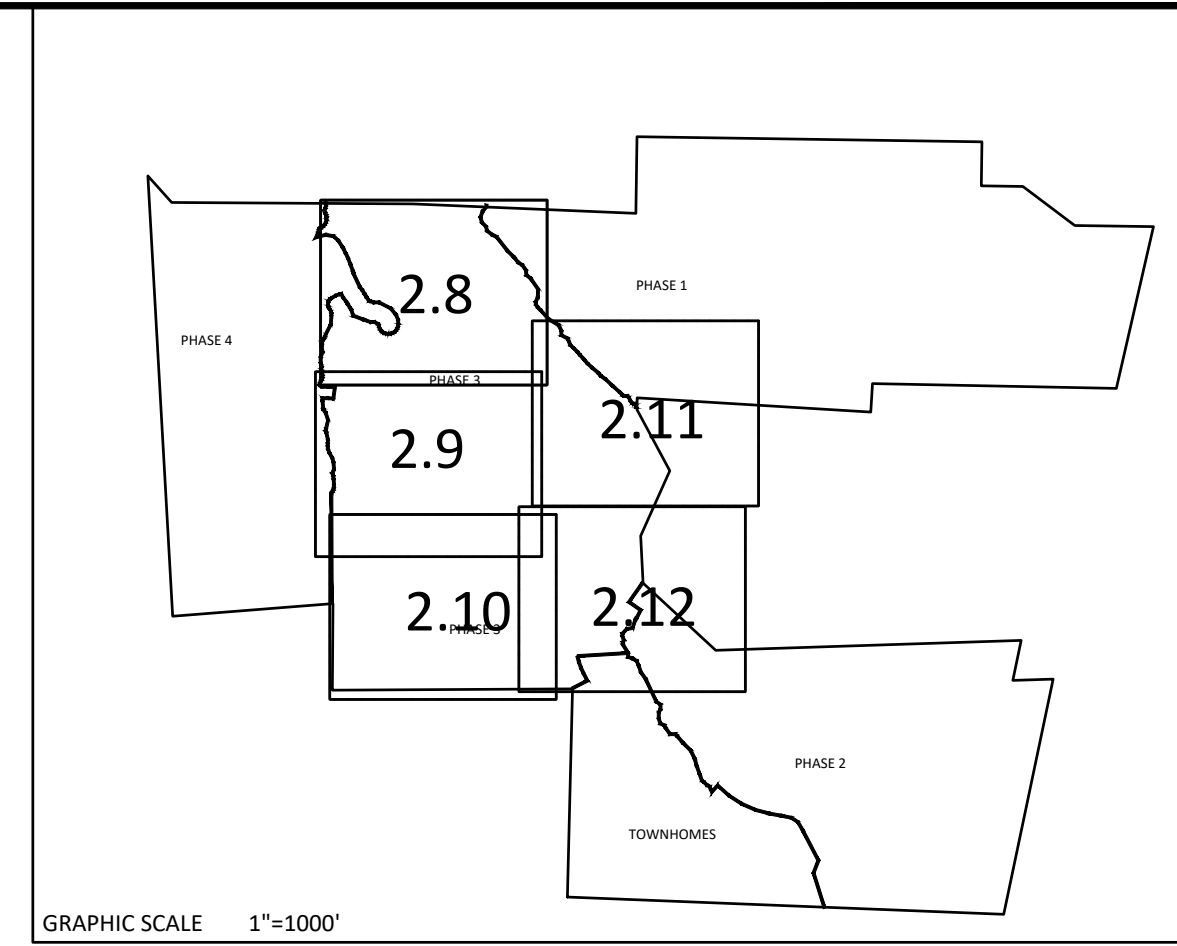
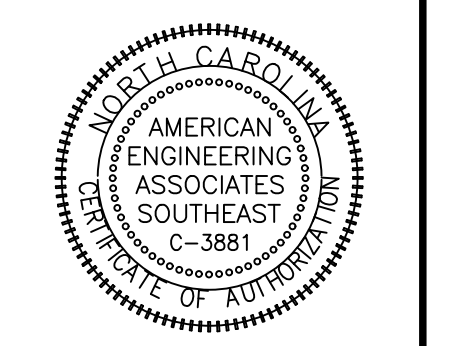


NO.	DATE	REVISION
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2	9/4/2024	REVIEW OF ROLESVILLE CONSULTANT COMMENTS.
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KALAS FALLS PHASE 3
1832 ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER:	9900
CHECKED BY:	BH/JH
DRAWN BY:	SMM/ALL/ES/AH/DH
DATE:	NOV 1, 2024
SHEET TITLE: EROSION CONTROL STAGE 3	
SHEET NO.:	2.9



EROSION CONTROL LEGEND	
	100 YEAR FLOOD EASEMENT
	EXISTING TOPOGRAPHY
	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' NEUSE RIPARIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	BUILDING RESTRICTION LINE
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED GRADING
	PROPOSED EASEMENT
	PROPOSED 25 x 50 GRAVEL CONSTRUCTION ENTRANCE
	PROPOSED RIP RAP
	BASIN WEIR
	PROPOSED SEDIMENT BASIN
	PROPOSED INLET PROTECTION
	PROPOSED CHECK DAM
	PROPOSED SF OUTLET
	GREENWAY TRAIL HATCH
	STABILIZATION HATCH FOR 3:1 SLOPES LESS THAN 8FT VERTICAL
	STABILIZATION HATCH FOR 3:1 SLOPES MORE THAN 8FT VERTICAL OR SLOPES GREATER THAN 50' IN LENGTH
	STABILIZATION HATCH FOR 2:1 SLOPES LESS THAN 8FT VERTICAL
	STABILIZATION HATCH FOR 2:1 SLOPES GREATER THAN 8FT VERTICAL
	PROPOSED BASIN MAINTENANCE PAD
	PROPOSED WATTLE
	PROPOSED SILT FENCE
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	PROPOSED DROP INLET
	PROPOSED STORM WATER

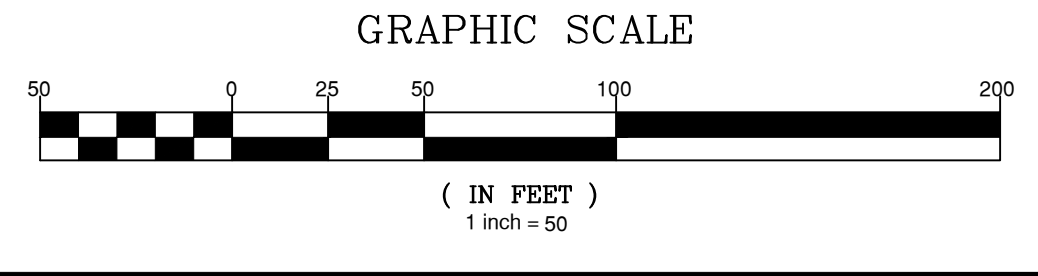
NO.	DATE	REVISION
1	7/27/2021	ISSUE FROM TOWN OF ROLESVILLE CONSULTANT, REVIEW AND CITY OF RALEIGH
2	9/14/2024	REVISION FROM TOWN OF ROLESVILLE CONSULTANT COMMENTS
3	11/20/2024	CONSTRUCTION DRAWING COMMENT RESPONSES

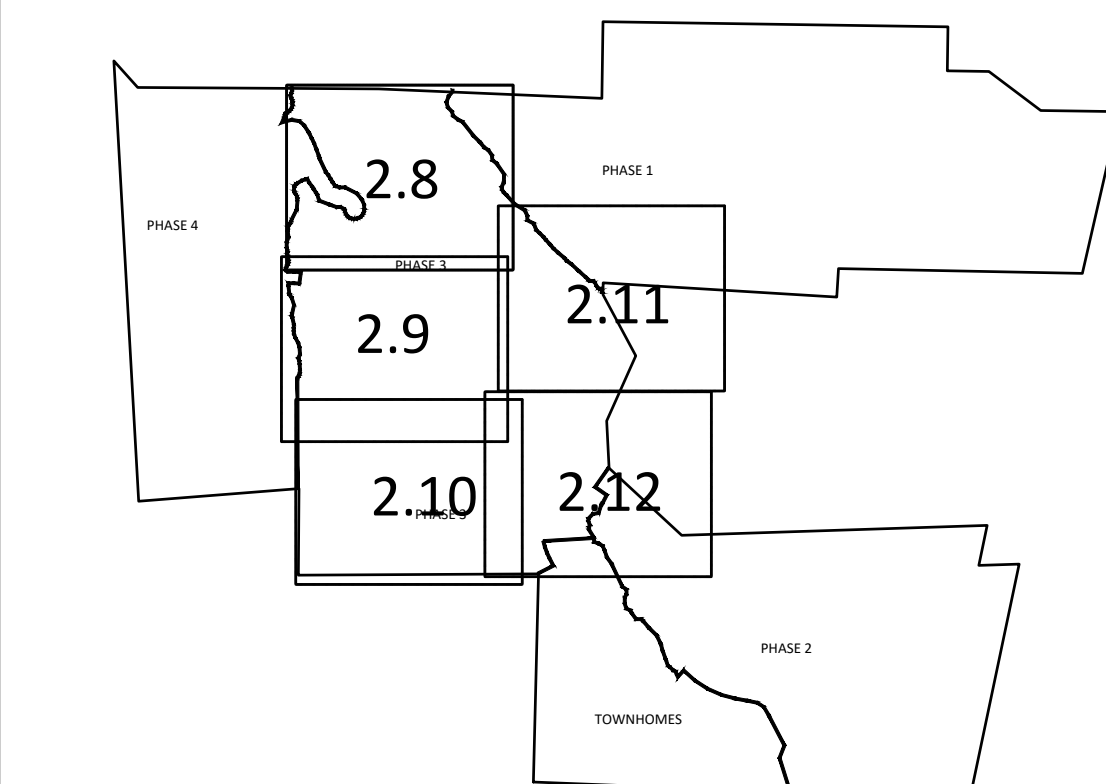
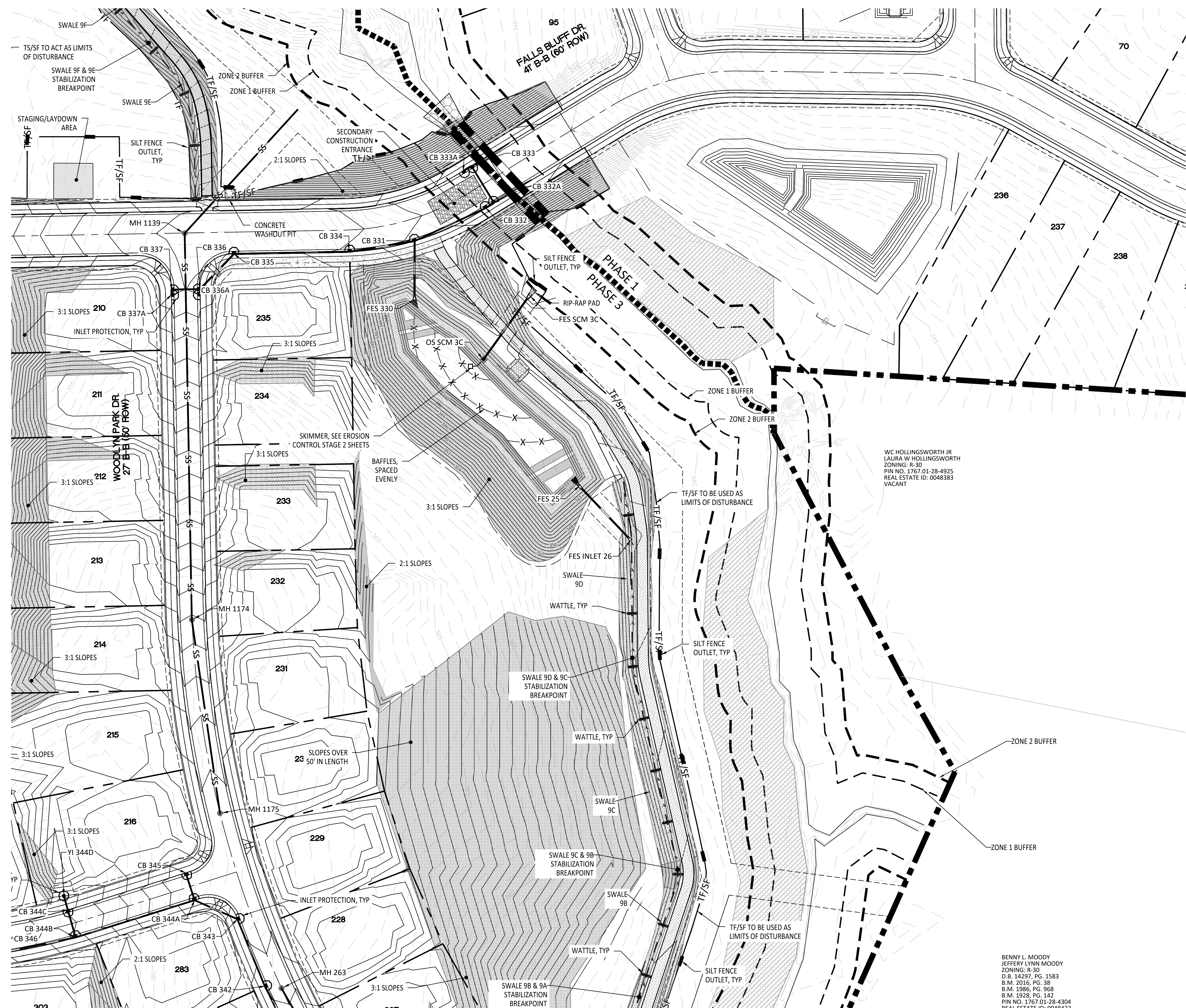
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WAKE COUNTY, NC

JOB NUMBER: 9900
CHECKED BY: BH/JH
DRAWN BY: SM/MAL/ES/AH/DH
DATE: NOV 1, 2024
SHEET TITLE: **EROSION CONTROL STAGE 3**
SHEET NO.: 2.10

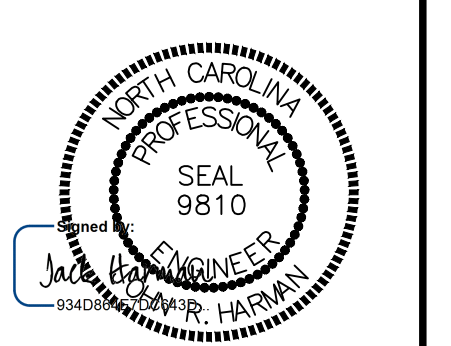
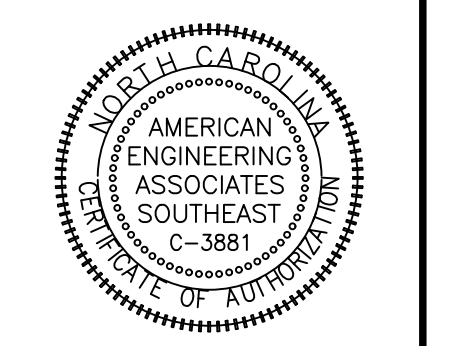
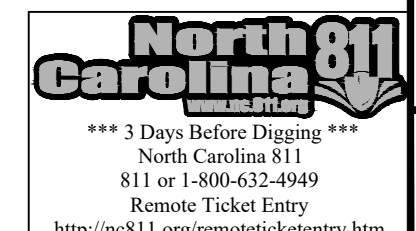
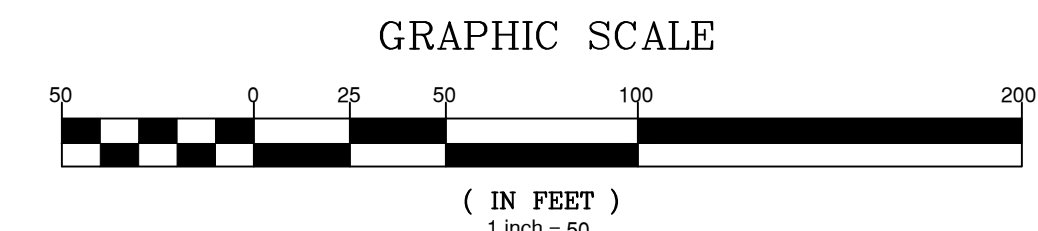
- GENERAL NOTES:**
- ALL SEDIMENT TRAPS/PONDS SHALL BE STABILIZED WITHIN 7 DAYS OF INSTALLATION.
 - WATTLE/CHECK DAM ARE TO BE PLACED EVERY 3 TO 4 FT VERTICALLY.
 - THE COMBINATION TREE FENCE/SILT FENCE IS TO ACT AS THE LIMITS OF DISTURBANCE
 - SEE SHEET 3.2 FOR SEDIMENT BASIN CHART SHOWING THE SKIMMER/ORIFICE SIZES
 - DIVERSION SWALE DESIGN, SEE SHEET 3.2 FOR DETAILS AND REFERENCE TABLE.
 - SEE SHEETS 2.2 TO 2.6 FOR SLOPE DRAIN PIPE SIZES.
 - SEE SHEET 3.2 FOR RIP RAP PAD SIZES.
 - SEE SHEETS 4.6-4.11 FOR SCM RISER AND PIPING SIZES.





EROSION CONTROL LEGEND	
	100 YEAR FLOOD EASEMENT
	EXISTING TOPOGRAPHY
	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' NEUSE RIPERIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	BUILDING RESTRICTION LINE
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED GRADING
	PROPOSED EASEMENT
	PROPOSED 25' X 50' GRAVEL CONSTRUCTION ENTRANCE
	PROPOSED RIP RAP
	BASIN WEIR
	PROPOSED SEDIMENT BASIN
	PROPOSED INLET PROTECTION
	PROPOSED CHECK DAM
	PROPOSED SF OUTLET
	GREENWAY TRAIL HATCH
	STABILIZATION HATCH FOR 3:1 SLOPES LESS THAN 8FT VERTICAL
	STABILIZATION HATCH FOR 3:1 SLOPES MORE THAN 8FT VERTICAL OR SLOPES GREATER THAN 50' IN LENGTH
	STABILIZATION HATCH FOR 2:1 SLOPES LESS THAN 8FT VERTICAL
	STABILIZATION HATCH FOR 2:1 SLOPES GREATER THAN 8FT VERTICAL
	PROPOSED BASIN MAINTENANCE PAD
	PROPOSED WATTLE
	PROPOSED SILT FENCE
	PROPOSED TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
	PROPOSED COMBINATION FENCE/LIMITS OF DISTURBANCE
	PROPOSED DIVERSION DITCH
	PROPOSED SWALE
	PROPOSED JUNCTION BOX
	PROPOSED CATCH BASIN
	PROPOSED YARD INLET
	PROPOSED DROP INLET
	PROPOSED STORM WATER

- GENERAL NOTES:**
1. ALL SEDIMENT TRAPS/PONDS SHALL BE STABILIZED WITHIN 7 DAYS OF INSTALLATION.
 2. WATTLE/CHECK DAM ARE TO BE PLACED EVERY 3 TO 4 FT VERTICALLY.
 3. THE COMBINATION TREE FENCE/SILT FENCE IS TO ACT AS THE LIMITS OF DISTURBANCE
 4. SEE SHEET 3.2 FOR SEDIMENT BASIN CHART SHOWING THE SKIMMER/ORIFICE SIZES
 5. DIVERSION SWALE DESIGN, SEE SHEET 3.2 FOR DETAILS AND REFERENCE TABLE.
 6. SEE SHEETS 2.2 TO 2.6 FOR SLOPE DRAIN PIPE SIZES.
 7. SEE SHEET 3.2 FOR RIP RAP PAD SIZES.
 8. SEE SHEETS 4.6-4.11 FOR SCM RISER AND PIPING SIZES.



NO.	DATE	REVISION
1	7/27/2021	ISSUE FROM TOWN OF ROLESVILLE CONSULTANT, REVIEW AND CITY OF RALEIGH
2	9/4/2024	TOWN OF ROLESVILLE CONSULTANT COMMENTS
3	11/07/2024	CONSTRUCTION DRAWING COMMENT RESPONSES

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/ML/ES/AH/DH
DATE: NOV 1, 2024
SHEET TITLE:
EROSION CONTROL STAGE 3
SHEET NO.:
2.11

NETWORK SCM 3B - PIPE SUMMARY table with columns: UPSTREAM STRUCTURE, DOWNSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT), Pipe Material. Rows include CB 338A through YI 369B.

NETWORK SCM 4E - PIPE SUMMARY table with columns: UPSTREAM STRUCTURE, DOWNSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT), Pipe Material. Rows include CB 404 through YI 413A.

NETWORK SCM 4C - PIPE SUMMARY table with columns: UPSTREAM STRUCTURE, DOWNSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT), Pipe Material. Rows include CB 420 through YI 440A.

NETWORK SCM 4B - PIPE SUMMARY table with columns: UPSTREAM STRUCTURE, DOWNSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT), Pipe Material. Rows include CB 470 through YI 489A.

NETWORK SCM 8A - PIPE SUMMARY table with columns: UPSTREAM STRUCTURE, DOWNSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT), Pipe Material. Rows include CB 801 through YI 814A.

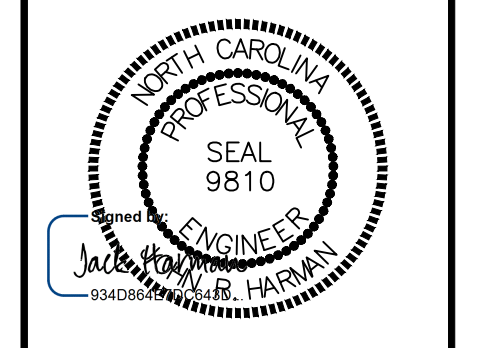
NETWORK PH3 to PH5 Bypass - PIPE SUMMARY table with columns: UPSTREAM STRUCTURE, DOWNSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT), Pipe Material. Rows include JB 32.

NETWORK PH3 Trail Culverts - PIPE SUMMARY table with columns: UPSTREAM STRUCTURE, DOWNSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT), Pipe Material. Rows include FES INLET 18 through FES INLET 20.

NETWORK SCM 3C - PIPE SUMMARY table with columns: UPSTREAM STRUCTURE, DOWNSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT), Pipe Material. Rows include CB 331 through OS SCM 3C.

*DENOTES CLASS IV RCP
**DENOTES GASKET JOINT

NOTE: ALL PIPE TO BE CLASS III RCP UNLESS OTHERWISE DENOTED



Revision table with columns: NO., DATE, REVISION. Includes entries for 1/2/2021, 9/4/2024, and 11/02/2024.

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: SMMA/L/ES/AH/DH
DATE: NOV 1, 2024

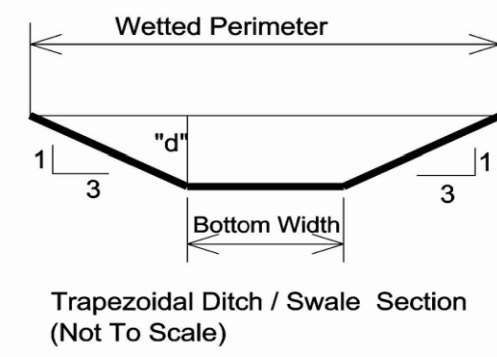
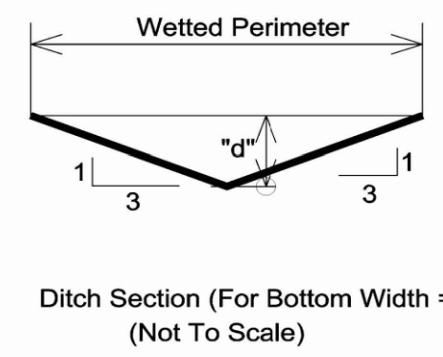
SCHEDULE PLAN

SHEET NO.: 3.1

Public Sewer Collection / Extension System and Public Water Distribution / Extension System logos and contact information for North 811.

Table with 2 columns: STRUCTURE NAME, RIM(FT). Lists structures from CB331 to CB479 with their respective rim heights.

Table with 2 columns: Structure Name, Rim Height (FT). Lists structures from CB480 to Y1814A with their respective rim heights.



TRAPEZOIDAL SWALE DRAINAGE CHART-PHASE THREE

Table with 14 columns: Ditch I.D., D.A., Ac., C, iso, in/hr, Q10, cfs, Left Side Slope, Z, Right Side Slope, Z, Avg. Ditch Slope, Bottom Width, Ditch Lining, Manning, n, Q10 Flow Depth, ft, Flow Velocity V10, fps, Calc. Shear Stress, psf.

TEMPORARY - TRIANGULAR SWALE DRAINAGE CHART - KALAS FALLS PHASE 3

Table with 14 columns: Ditch I.D., D.A., Ac., C, iso, in/hr, Q10, cfs, Left Side Slope, Z, Right Side Slope, Z, Avg. Ditch Slope, Bottom Width, Ditch Lining, Manning, n, Q10 Flow Depth, ft, Flow Velocity V10, fps, Calc. Shear Stress, psf.

*Alternate lining may be used if it is an approved equal to the one listed

Y:\Jobs\9900\Watkins Property\Documents\Schedules\Temporary Ditch Schedule, Ph3.xlsx

RIP-RAP PADS table with columns: Date, Outlet No., Pipe Dia. (IN.), Velocity (FPS), Zone, Stone Size, Stone Class, Width (FT.), Length (FT.), Depth (IN.).

Note: Sediment basins to be converted to SCM's are shown by the permanent SCM number. *Downstream width, use 3 x pipe diameter upstream. **Flow velocity very small as it comes through max. 2" orifice only a few inches below the surface. ***Next higher zone due to steep ground slope

Sediment Basin/Sediment Trap Schedule table with columns: Basin No., Bottom Elev., Top of Dam Elev., Riser Elev., Spillway Elev., Weir Length, Riser/Barrel Size, Basin Dimensions (At Top of Dam, At Emerg. Spillway, At Bott. of Basin), Skimmer Size, Skimmer Hole Size, Anti-Flotation Size.

*Side x side x depth **Irregular, see plans Y:\Jobs\9900\Watkins Property\Documents\Schedules\Sediment Basin Schedule, Ph3.xlsx

Phase 3 Lot Areas

Table with 4 columns: LOT NUMBER, SQUARE FOOTAGE(SF). Lists lot numbers and their square footages for Phase 3.

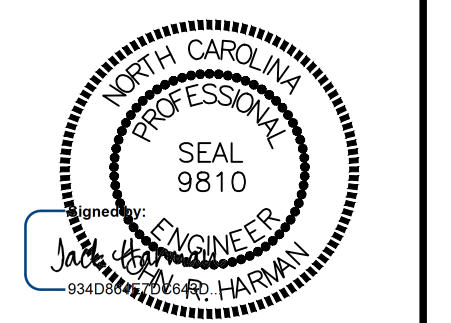
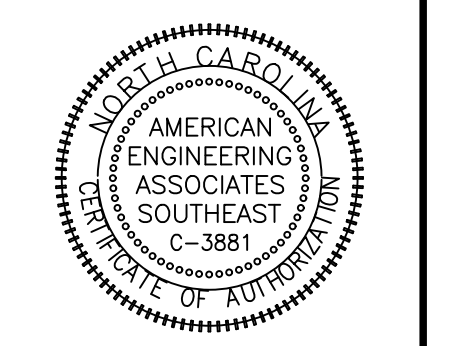


Table with 3 columns: NO., DATE, REVISION. Lists revision numbers, dates, and descriptions.

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. 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 SHEET TITLE:

SCHEDULE PLAN

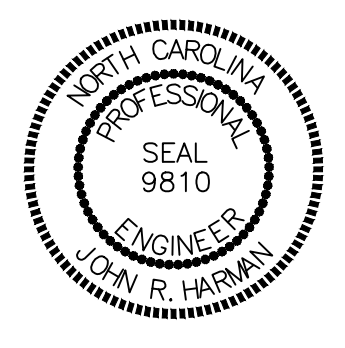
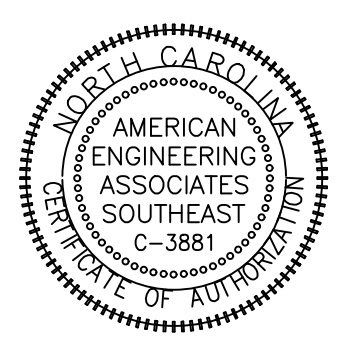
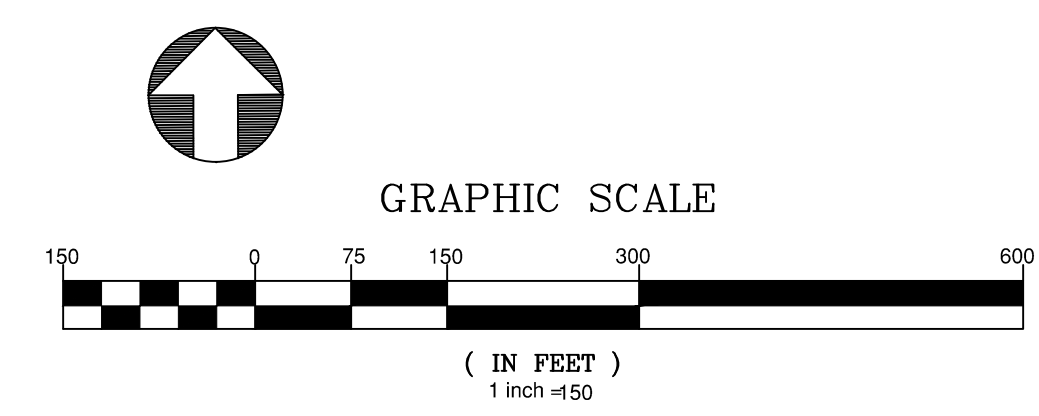
SHEET NO.: 3.2

Public Sewer Collection / Extension System and Public Water Distribution / Extension System information, including City of Raleigh Public Utilities Department Permit # and North Carolina 811 logo.



(Symbol)	EXISTING TOPOGRAPHY
(Symbol)	EXISTING BOUNDARY
(Symbol)	EXISTING WETLANDS AREA
(Symbol)	EXISTING 50' NEUSE RIPERIAN BUFFER
(Symbol)	EXISTING BUFFER ZONES
(Symbol)	PROPOSED LOT LINE
(Symbol)	100 YEAR FLOOD EASEMENT
(Symbol)	BUILDING RESTRICTION LINE
(Symbol)	PROPOSED GREENWAY HATCHING
(Symbol)	PROPOSED ROW
(Symbol)	PROPOSED SIDEWALK
(Symbol)	PROPOSED BOC
(Symbol)	PROPOSED EOP
(Symbol)	PROPOSED CENTERLINE
(Symbol)	PROPOSED GRADING
(Symbol)	PROPOSED EASEMENT
(Symbol)	PHASELINE
(Symbol)	RIP RAP
(Symbol)	BASIN WEIR
(Symbol)	JUNCTION BOX
(Symbol)	PROPOSED CATCH BASIN
(Symbol)	PROPOSED YARD INLET
(Symbol)	PROPOSED DROP INLET
(Symbol)	PROPOSED FLARED END SECTION
(Symbol)	PROPOSED STORM WATER
(Symbol)	EXISTING PHASING
(Symbol)	FUTURE PHASING
(Symbol)	PROPOSED SWALE (AT TIME OF LOT GRADING)

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.



NO.	DATE	REVISION
1.	7/27/2024	1. REVIEW FROM TOWN OF ROLESVILLE. CONSULT FANT.
2.	8/12/2024	2. MAKE COUNTY AND CITY REVISIONS.
3.	10/17/2024	3. REVISIONS TO CONSTRUCTION DRAWING COMMENT RESPONSES
4.	12/17/2024	4. CONSTRUCTION DRAWING COMMENT RESPONSES

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:	PHASE 3 GRADING & DRAINAGE
SHEET NO.:	4.0

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JONATHAN Y. GILLES
STATE OF NORTH CAROLINA
ENGINEER
ZONING 04-20
DATE 12-14-2024
BY 1887.PC.082
RN 1887.PC.082
P.L.N. 170283-06-9810
SINGLE FAMILY

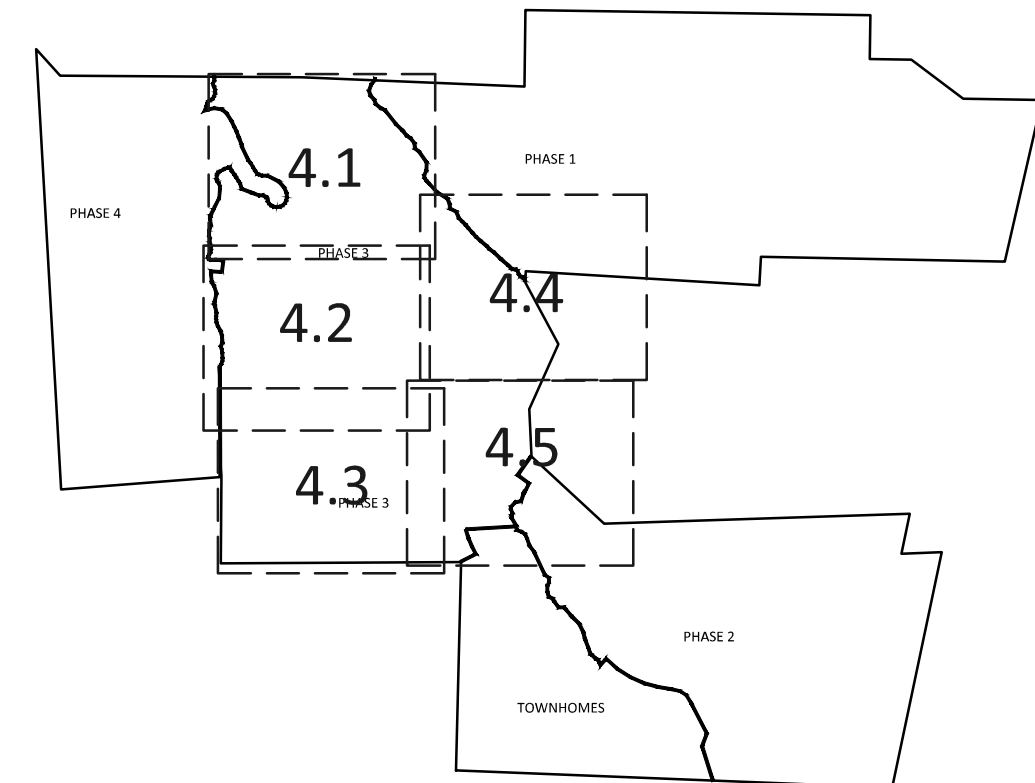
WE HOLDINGSWORTH, INC.
LAND SURVEYORS & ENGINEERS
P.O. BOX 1200
157 SOUTH ST. WACANT, NC 27885

PHILIP L. MOODY
STATE OF NORTH CAROLINA
ENGINEER
ZONING 04-20
DATE 11-20-24
BY 1887.PC.082
RN 1887.PC.082
P.L.N. 170283-06-9810
RECREATION / RECREATIONAL

JONES PROPERTIES, LLC
ZONING 04-20
DATE 11-20-24
BY 1887.PC.082
RN 1887.PC.082
P.L.N. 170283-06-9810
VACANT

JONES PROPERTIES, LLC
ZONING 04-20
DATE 11-20-24
BY 1887.PC.082
RN 1887.PC.082
P.L.N. 170283-06-9810
VACANT

ANNIE H. MOODY
STATE OF NORTH CAROLINA
ENGINEER
ZONING 04-20
DATE 11-20-24
BY 1887.PC.082
RN 1887.PC.082
P.L.N. 170283-06-9810
RECREATIONAL



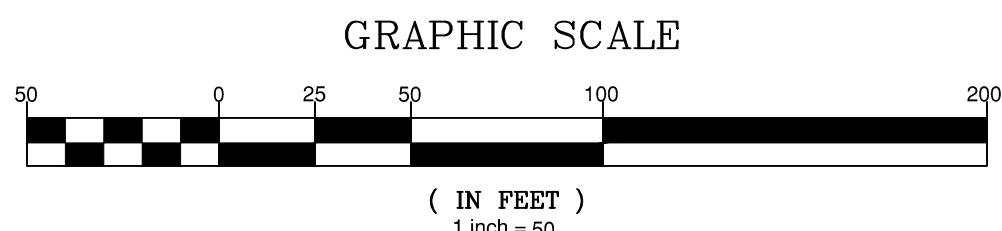
GRAPHIC SCALE 1"=1000'

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.

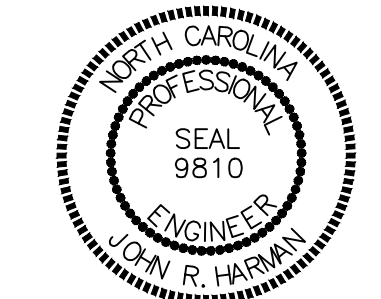
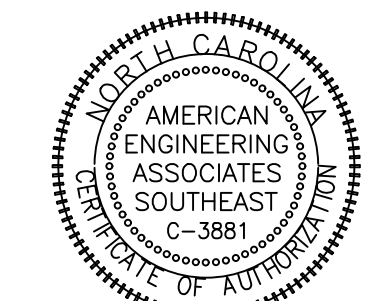
GRADING LEGEND	
	EXISTING TOPOGRAPHY
	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' NEUSE RIPARIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	100 YEAR FLOOD EASEMENT
	BUILDING RESTRICTION LINE
	PROPOSED GREENWAY HATCHING
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED GRADING
	PROPOSED EASEMENT
	PHASELINE
	RIP RAP
	BASIN WEIR
	JUNCTION BOX
	PROPOSED CATCH BASIN
	PROPOSED YARD INLET
	PROPOSED DROP INLET
	PROPOSED FLARED END SECTION
	PROPOSED STORM WATER
	EXISTING PHASING
	FUTURE PHASING
	PROPOSED SWALE (AT TIME OF LOT GRADING)

* LOTS SHOWN WITH AN ASTERISK MUST BE GRADED TO DRAIN AWAY FROM ROAD EXCEPT ANY PORTION ALREADY DRAINING TOWARD ROAD DUE TO GRADING SHOWN ON THESE PLANS MAY CONTINUE

NOTE: REFER TO SHEET 3.2 FOR SWALE MATERIAL (RIPRAP/GRASS MAT)



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



NO.	DATE	REVISION
1	7/25/2024	REVISED FROM TOWN OF ROLESVILLE CONSULTANT
2	9/24/2024	WAKE COUNTY AND CITY OF RALEIGH
3	11/01/2024	CONSTRUCTION DRAWING COMMENT RESPONSES
4	12/01/2024	CONSTRUCTION DRAWING COMMENT RESPONSES

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

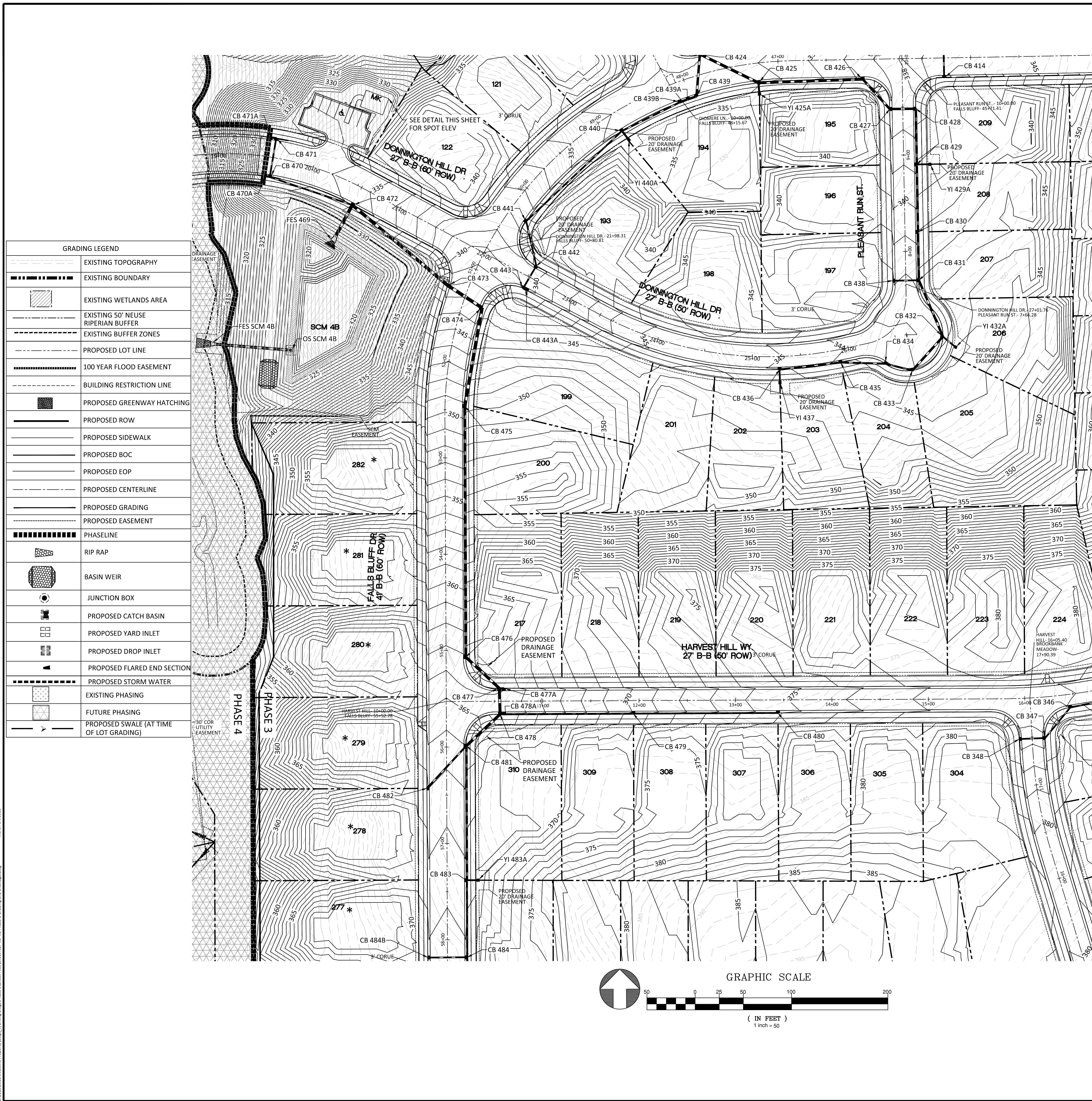
JOB NUMBER: 9900
CHECKED BY: BH/JH
DRAWN BY: SMM/ALL/ES/AH/DH
DATE: NOV 1, 2024

SHEET TITLE:
PHASE 3 GRADING & DRAINAGE

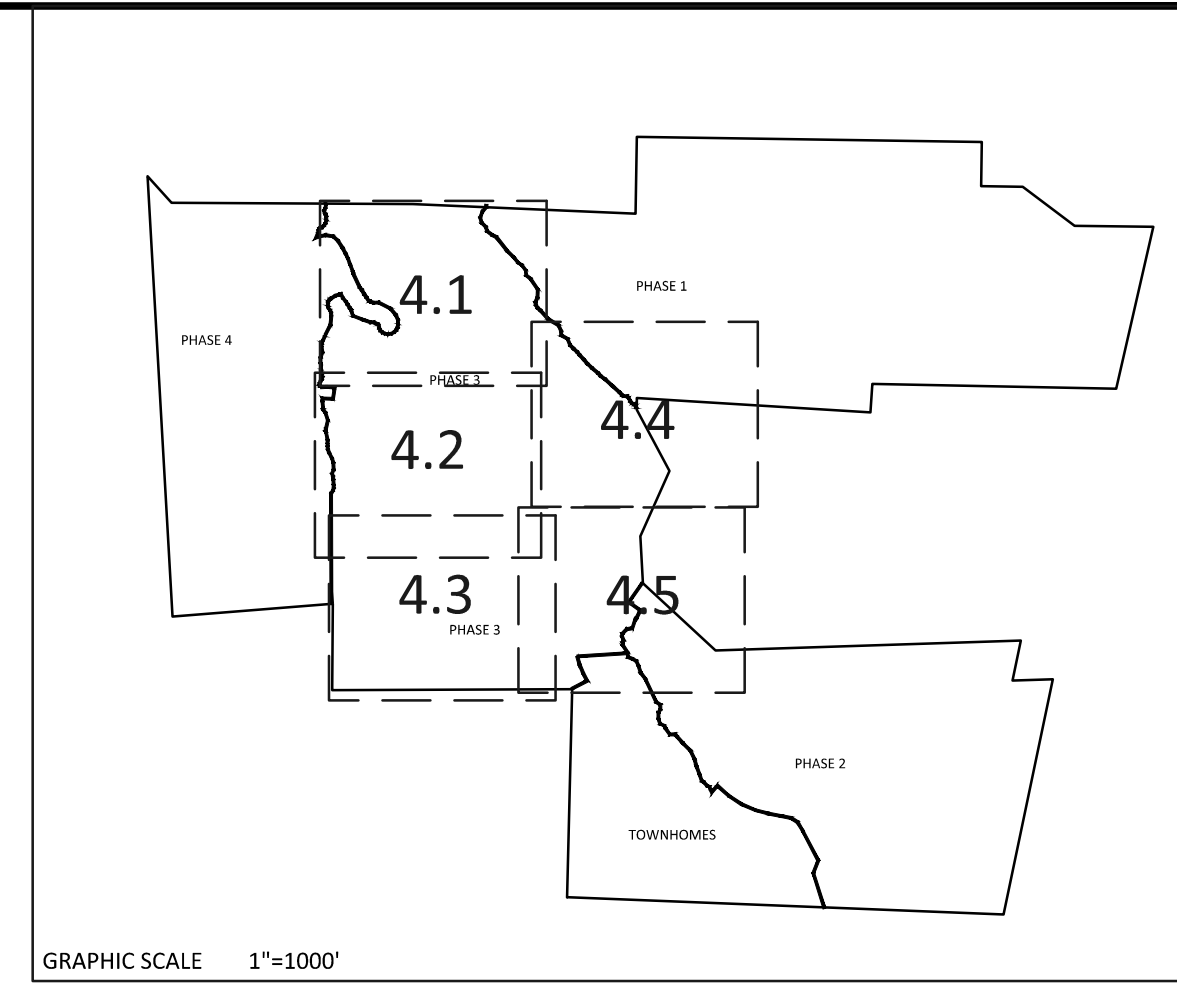
SHEET NO.: 4.1



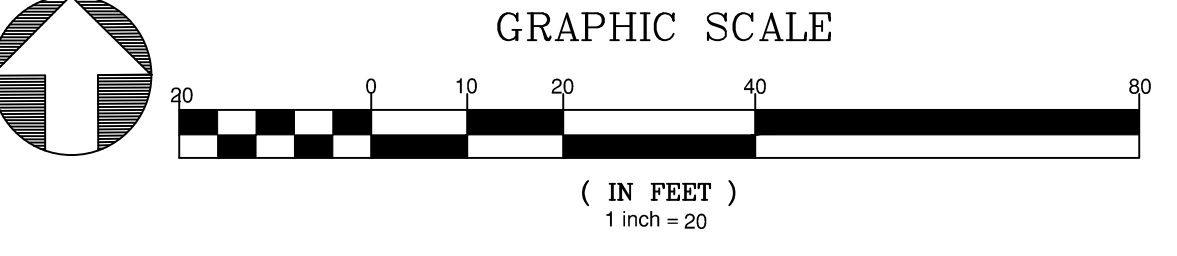
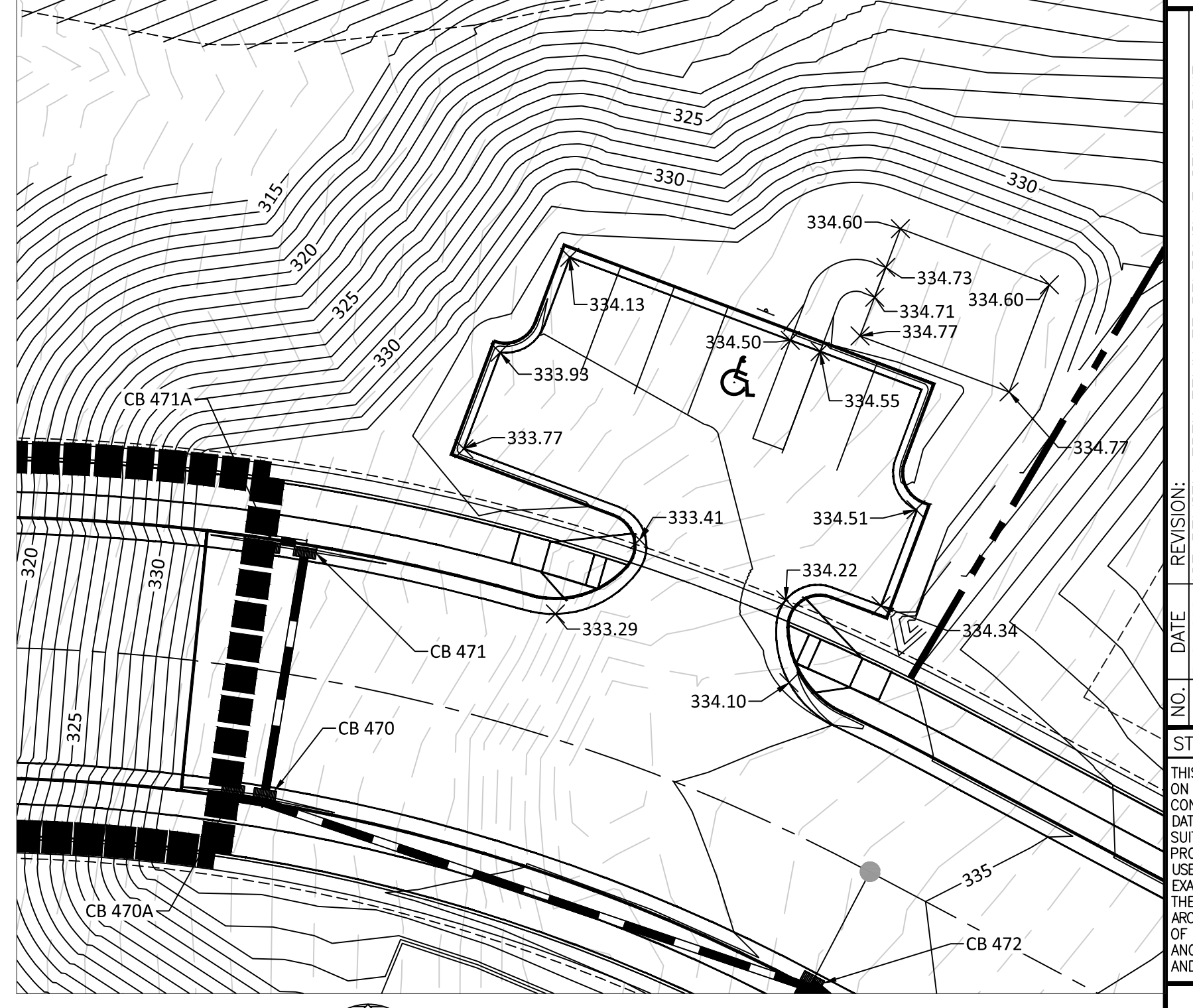
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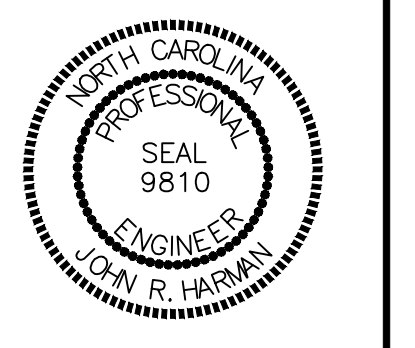
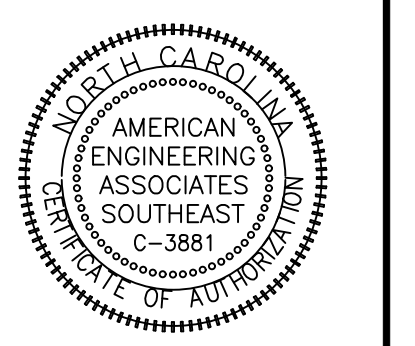
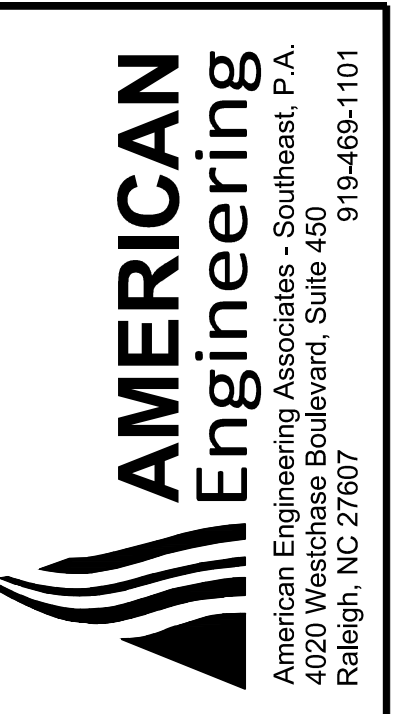
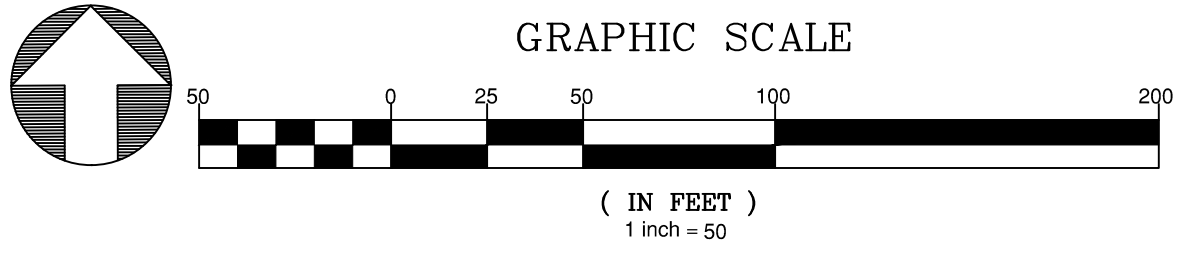
GRADING LEGEND	
	EXISTING TOPOGRAPHY
	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' NEUSE RIPARIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	100 YEAR FLOOD EASEMENT
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	EXISTING PHASING
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	PROPOSED SWALE (AT TIME OF LOT GRADING)



* LOTS SHOWN WITH AN ASTERISK MUST BE GRADED TO DRAIN TO REAR AWAY FROM ROAD EXCEPT ANY PORTION ALREADY DRAINING TOWARD ROAD DUE TO GRADING SHOWN ON THESE PLANS MAY CONTINUE



NOTE:
REFER TO SHEET 3.2 FOR SWALE MATERIAL (RIPRAP/GRASS MAT)

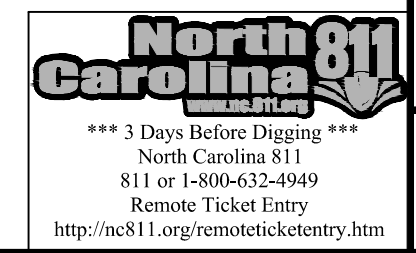


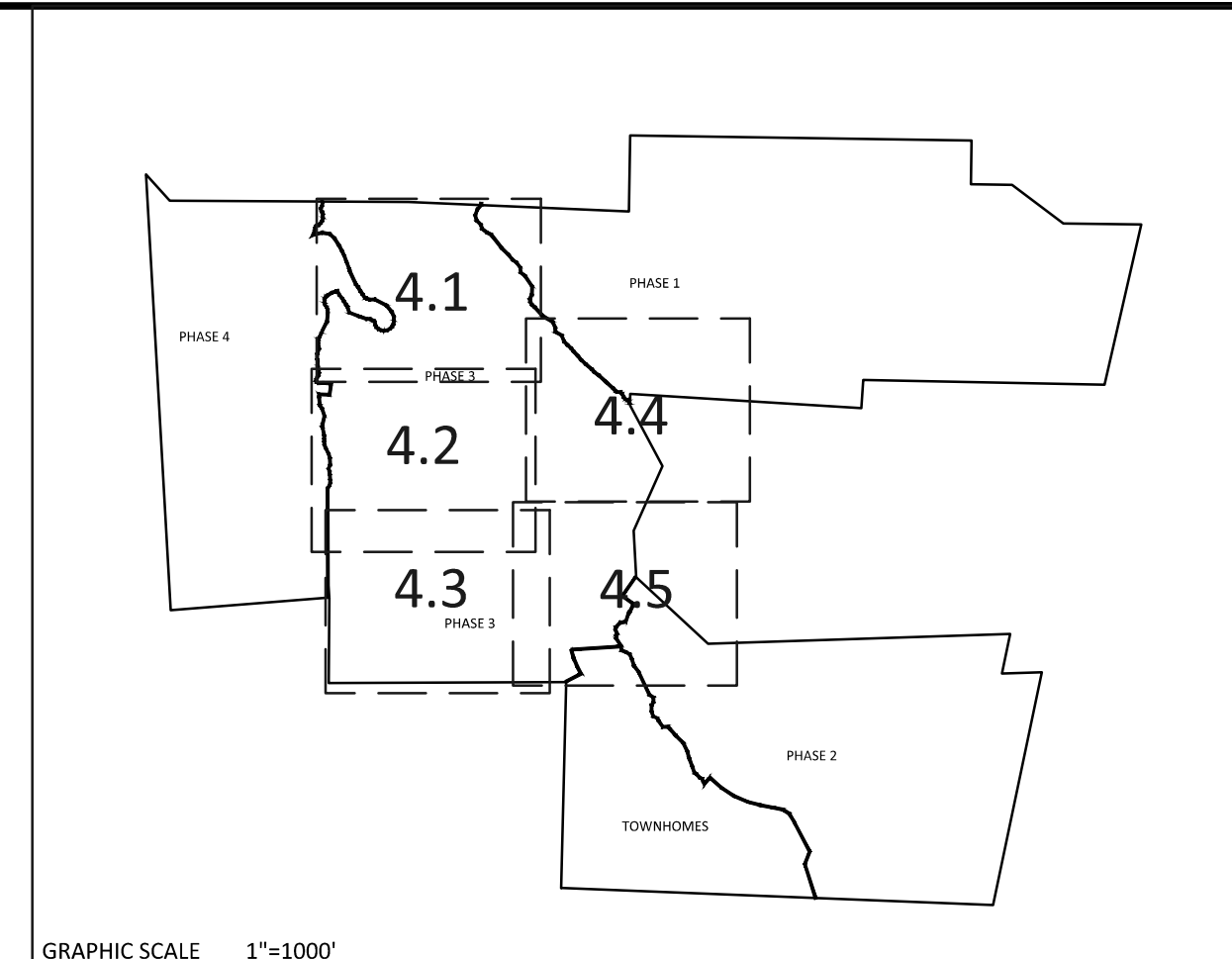
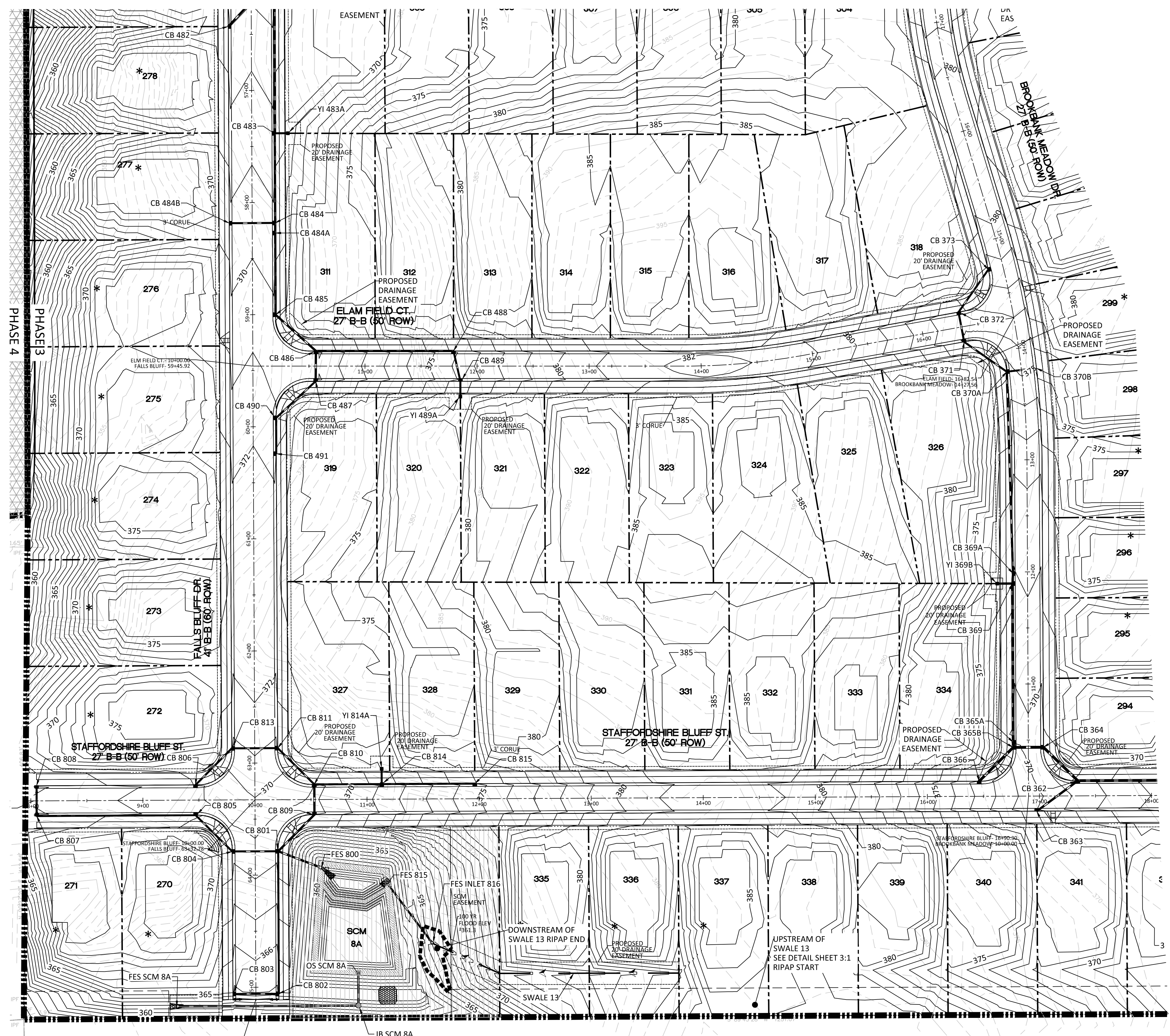
NO.	DATE	REVISION
1	2/27/2024	AS REVIEW FROM TOWN OF ROLESVILLE, CONSULTANT
2	3/4/2024	REVISED TO REFLECT COMMENTS FROM TOWN ENGINEERS
3	3/11/2024	REVISED TO REFLECT COMMENTS FROM TOWN ENGINEERS
4	3/27/2024	CONSULTANT DRAWING COMMENT RESPONSES
5	3/27/2024	CONSULTANT DRAWING COMMENT RESPONSES

STIPULATION FOR REUSE
THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE NAMED HEREON. IT IS NOT TO BE REPRODUCED OR USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. ANY REUSE OF THIS DRAWING FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THE ENGINEER IS STRICTLY PROHIBITED 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/AHD/H
DATE:	NOV 1, 2024
SHEET TITLE:	PHASE 3 GRADING & DRAINAGE
SHEET NO.:	4.2

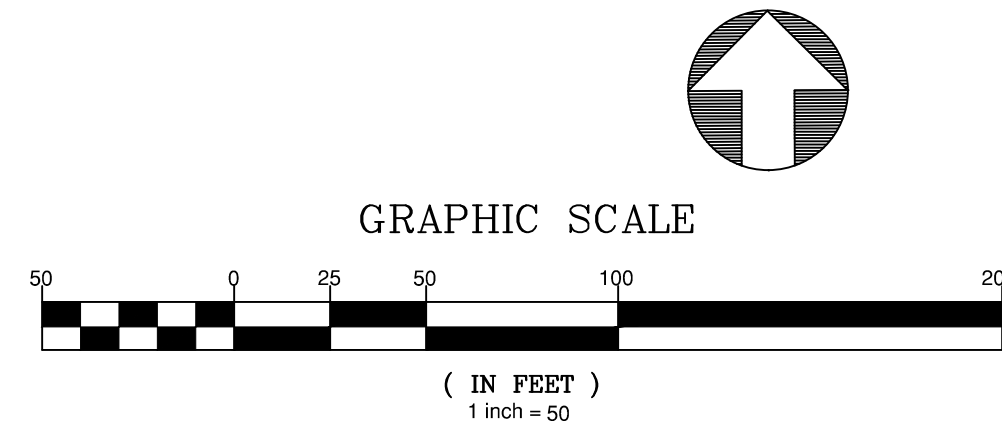




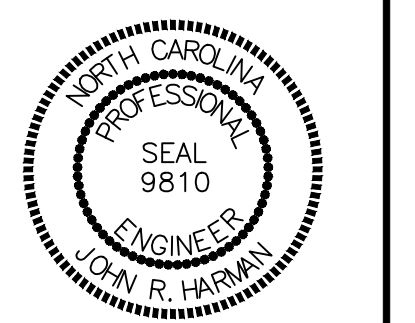
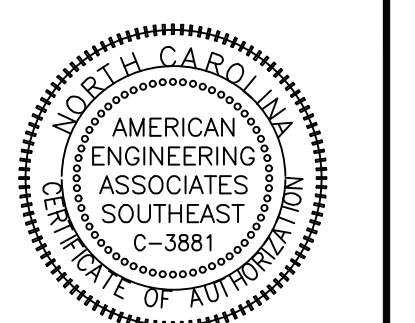
*LOTS SHOWN WITH AN ASTERISK MUST BE GRADED TO DRAIN TO REAR AWAY FROM ROAD EXCEPT ANY PORTION ALREADY DRAINING TOWARD ROAD DUE TO GRADING SHOWN ON THESE PLANS MAY CONTINUE

GRADING LEGEND	
	EXISTING TOPOGRAPHY
	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' NEUSE RIVERIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	100 YEAR FLOOD EASEMENT
	BUILDING RESTRICTION LINE
	PROPOSED GREENWAY HATCHING
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED GRADING
	PROPOSED EASEMENT
	PHASELINE
	RIP RAP
	BASIN WEIR
	JUNCTION BOX
	PROPOSED CATCH BASIN
	PROPOSED YARD INLET
	PROPOSED DROP INLET
	PROPOSED FLARED END SECTION
	PROPOSED STORM WATER
	EXISTING PHASING
	FUTURE PHASING
	PROPOSED SWALE (AT TIME OF LOT GRADING)

NOTE: REFER TO SHEET 3.2 FOR SWALE MATERIAL (RIPRAP/GRASS MAT)



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

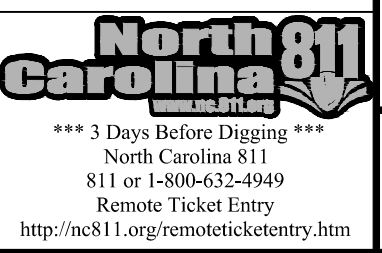


NO.	DATE	REVISION
1	12/17/2025	AS REVIEW FROM TOWN OF ROLESVILLE. CONSULT P&T.
2	04/22/2024	REVISED TO REFLECT COMMENTS FROM ROLESVILLE.
3	11/07/2023	CONSTRUCTION DRAWING. COMMENT RESPONSES.
4	12/17/2025	CONSTRUCTION DRAWING. COMMENT RESPONSES.

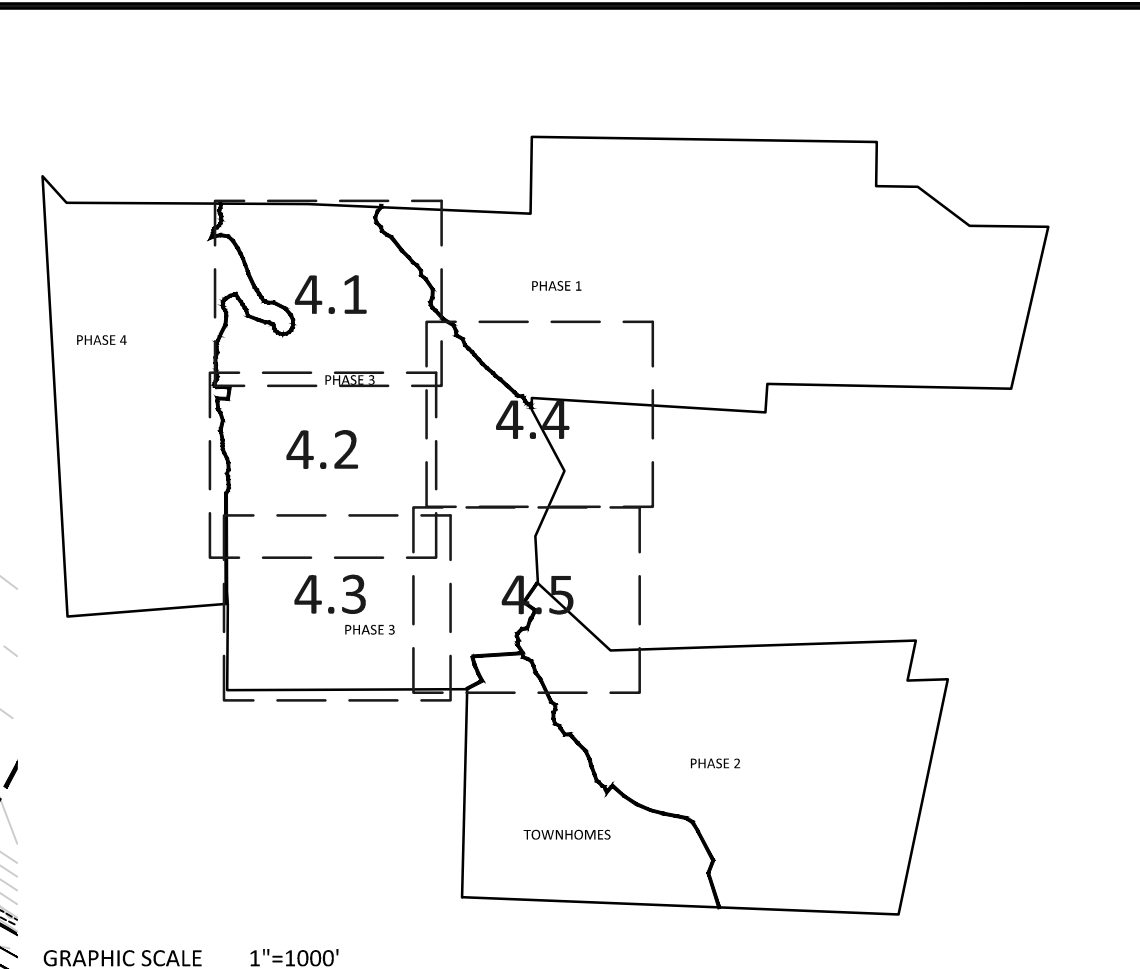
STIPULATION FOR REUSE
 THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE NAMED HEREON. CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR USE 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/M/L/ES/AH/DH
 DATE: NOV 1, 2024
 SHEET TITLE:
PHASE 3 GRADING & DRAINAGE
 SHEET NO.:
4.3



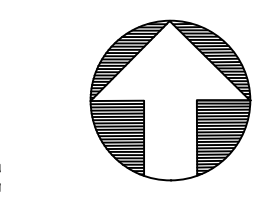
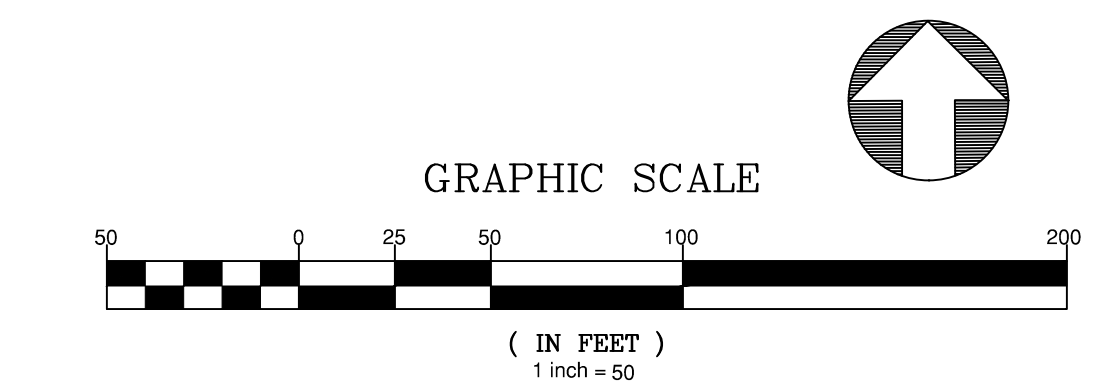
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 Month 12, 2025



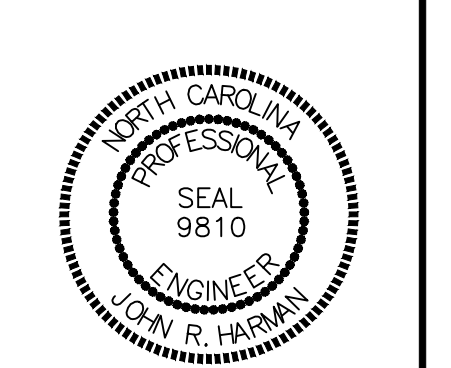
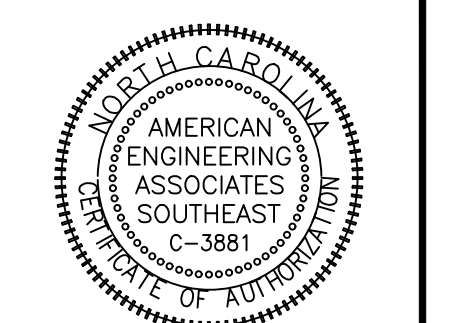
NOTE: THE 100 YEAR FLOOD-LINE AS ON THESE PLANS WERE TAKEN FROM THE FLOOD STUDY PREPARED BY DONLAD A SEVER, PE (024627) OF HUGH J. GILLECE, III AND ASSOCIATES, P.A.

GRADING LEGEND	
	EXISTING TOPOGRAPHY
	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' NEUSE RIPARIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	100 YEAR FLOOD EASEMENT
	BUILDING RESTRICTION LINE
	PROPOSED GREENWAY HATCHING
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED GRADING
	PROPOSED EASEMENT
	PHASELINE
	RIP RAP
	BASIN WEIR
	JUNCTION BOX
	PROPOSED CATCH BASIN
	PROPOSED YARD INLET
	PROPOSED DROP INLET
	PROPOSED FLARED END SECTION
	PROPOSED STORM WATER
	EXISTING PHASING
	FUTURE PHASING
	PROPOSED SWALE (AT TIME OF LOT GRADING)

NOTE: REFER TO SHEET 3.2 FOR SWALE MATERIAL (RIPRAP/GRASS MAT)



BENNY L. MOODY
JEFFERY LYNN MOODY
ZONING: R-30
D.B. 14297, PG. 1583
B.M. 2016, PG. 38
B.M. 1986, PG. 968
B.M. 1928, PG. 142
PIN NO. 1767-01-28-4304
REAL ESTATE ID: 0048422

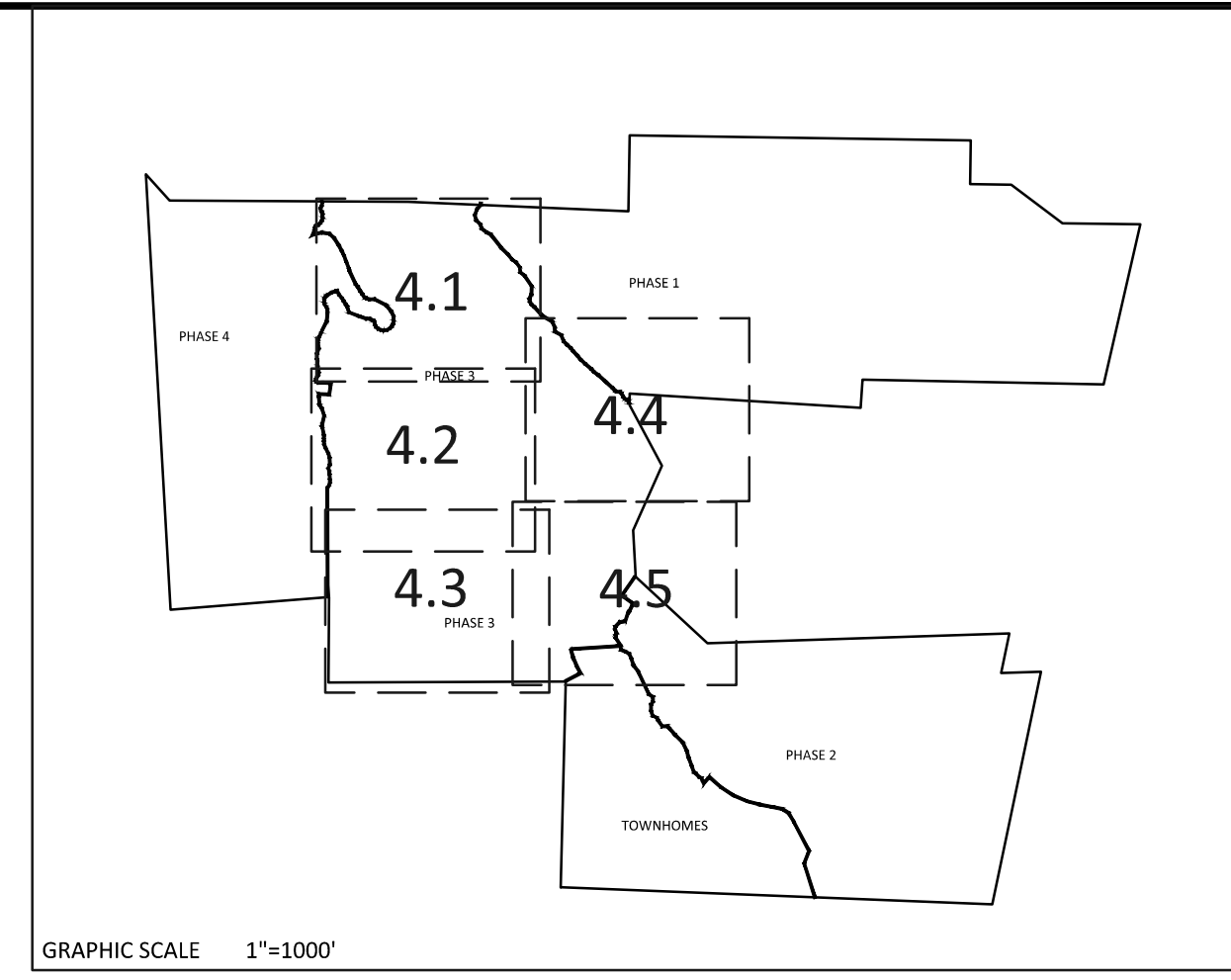
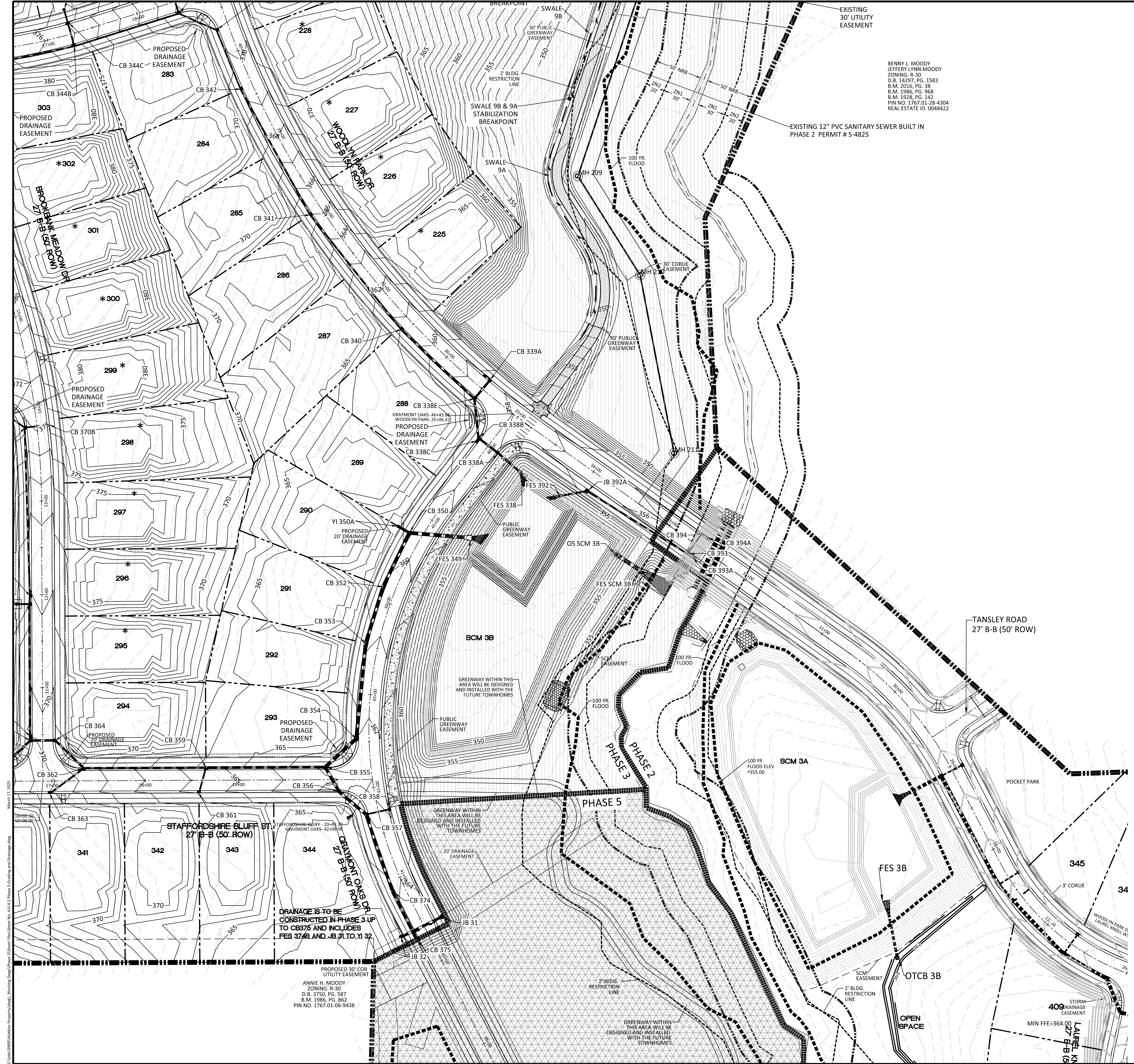


NO.	DATE	REVISION
1	12/27/2024	AS PREPARED FROM TOWN OF ROLESVILLE CONSULTANT
2	01/02/2025	REVISED TO REFLECT COMMENTS FROM ROLESVILLE
3	01/02/2025	REVISED TO REFLECT COMMENTS FROM ROLESVILLE
4	01/02/2025	REVISED TO REFLECT COMMENTS FROM ROLESVILLE
5	01/02/2025	REVISED TO REFLECT COMMENTS FROM ROLESVILLE
6	01/02/2025	REVISED TO REFLECT COMMENTS FROM ROLESVILLE

STIPULATION FOR REUSE
THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTAMINATED 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/M/L/ES/AH/DH
DATE:	NOV 1, 2024
SHEET TITLE:	PHASE 3 GRADING & DRAINAGE
SHEET NO.:	4.4

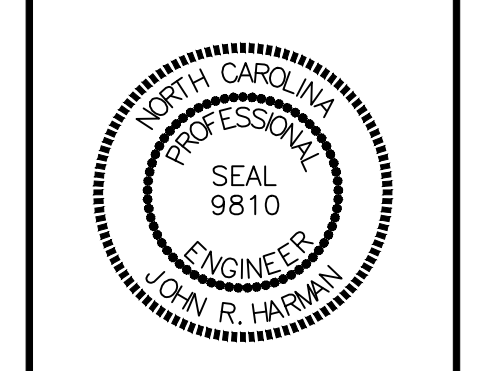
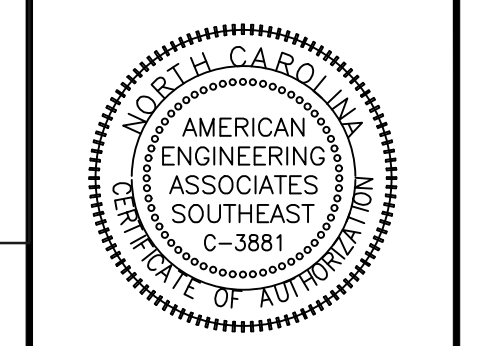
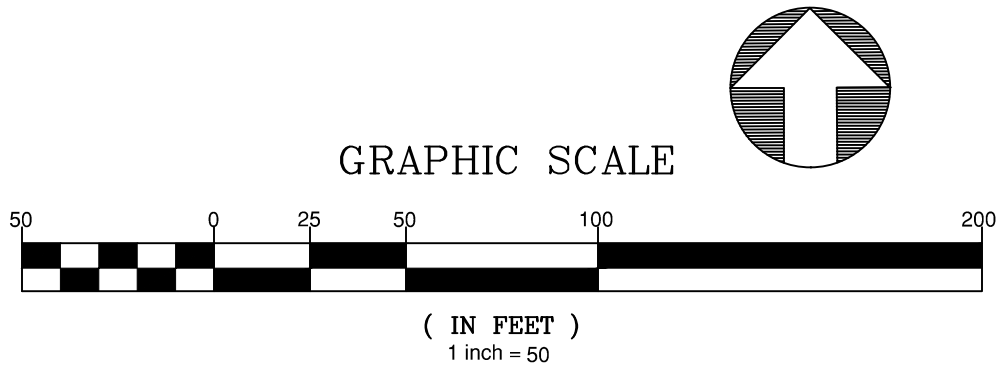


BENNY L. MOODY
JEFFERY LYNN MOODY
ZONING: R-30
D.B. 14297, PG. 1583
B.M. 2016, PG. 38
B.M. 1986, PG. 968
B.M. 1928, PG. 142
PIN NO. 1767-01-28-4304
REAL ESTATE ID: 0048422

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.

GRADING LEGEND	
	EXISTING TOPOGRAPHY
	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' NEUSE RIVERIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	100 YEAR FLOOD EASEMENT
	BUILDING RESTRICTION LINE
	PROPOSED DRIVEWAY HATCHING
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED GRADING
	PROPOSED EASEMENT
	PHASILINE
	RIP RAP
	BASIN WEIR
	JUNCTION BOX
	PROPOSED CATCH BASIN
	PROPOSED YARD INLET
	PROPOSED DROP INLET
	PROPOSED FLARED END SECTION
	PROPOSED STORM WATER
	EXISTING PHASING
	FUTURE PHASING
	PROPOSED SWALE (AT TIME OF LOT GRADING)

NOTE: REFER TO SHEET 3.2 FOR SWALE MATERIAL (RIPRAP/GRASS MAT)



NO.	DATE	REVISION
1	12/27/2024	AS SHOWN FROM TOWN OF ROLESVILLE, CONSULTANT
2	01/02/2025	REVISED TO REFLECT COMMENTS FROM TOWN
3	01/02/2025	REVISED TO REFLECT COMMENTS FROM TOWN
4	01/02/2025	REVISED TO REFLECT COMMENTS FROM TOWN
5	01/02/2025	REVISED TO REFLECT COMMENTS FROM TOWN
6	01/02/2025	REVISED TO REFLECT COMMENTS FROM TOWN

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.

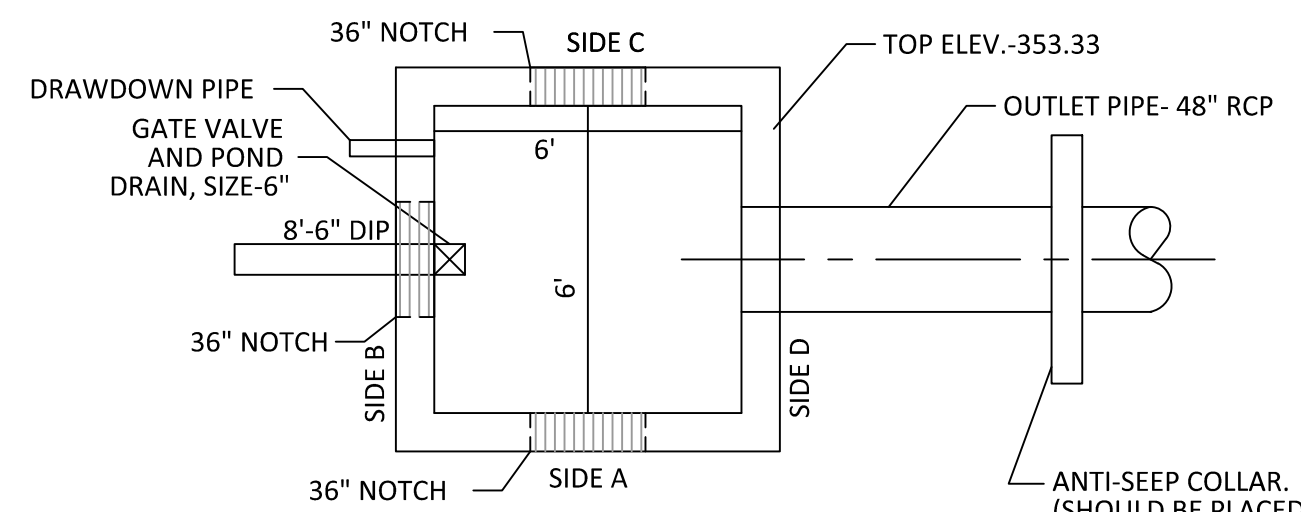
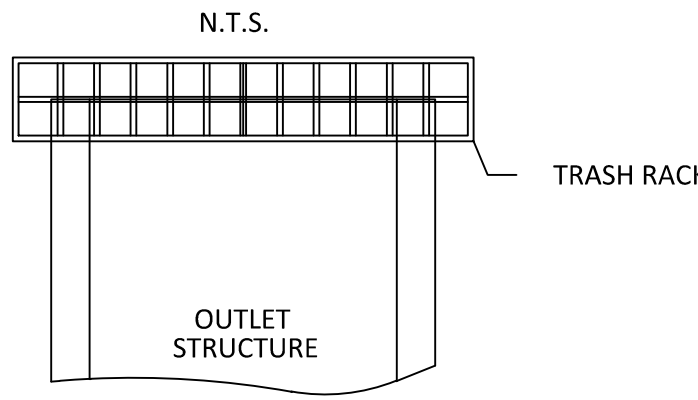
KALAS FALLS PHASE 3
1832 ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 9900
CHECKED BY: BH/JH
DRAWN BY: SM/M/L/ES/AH/DH
DATE: NOV 1, 2024
PHASE 3 GRADING & DRAINAGE
SHEET NO.: 4.5



March 12, 2025
2:\bin\9900\Drawings\Phase 3\Drawings\Sheet No. 4.5-3 Phase 3 Grading and Drainage.dwg

TRASH RACK DETAIL



**PLAN VIEW OS3B
PRIMARY OUTLET STRUCTURE
N.T.S.**

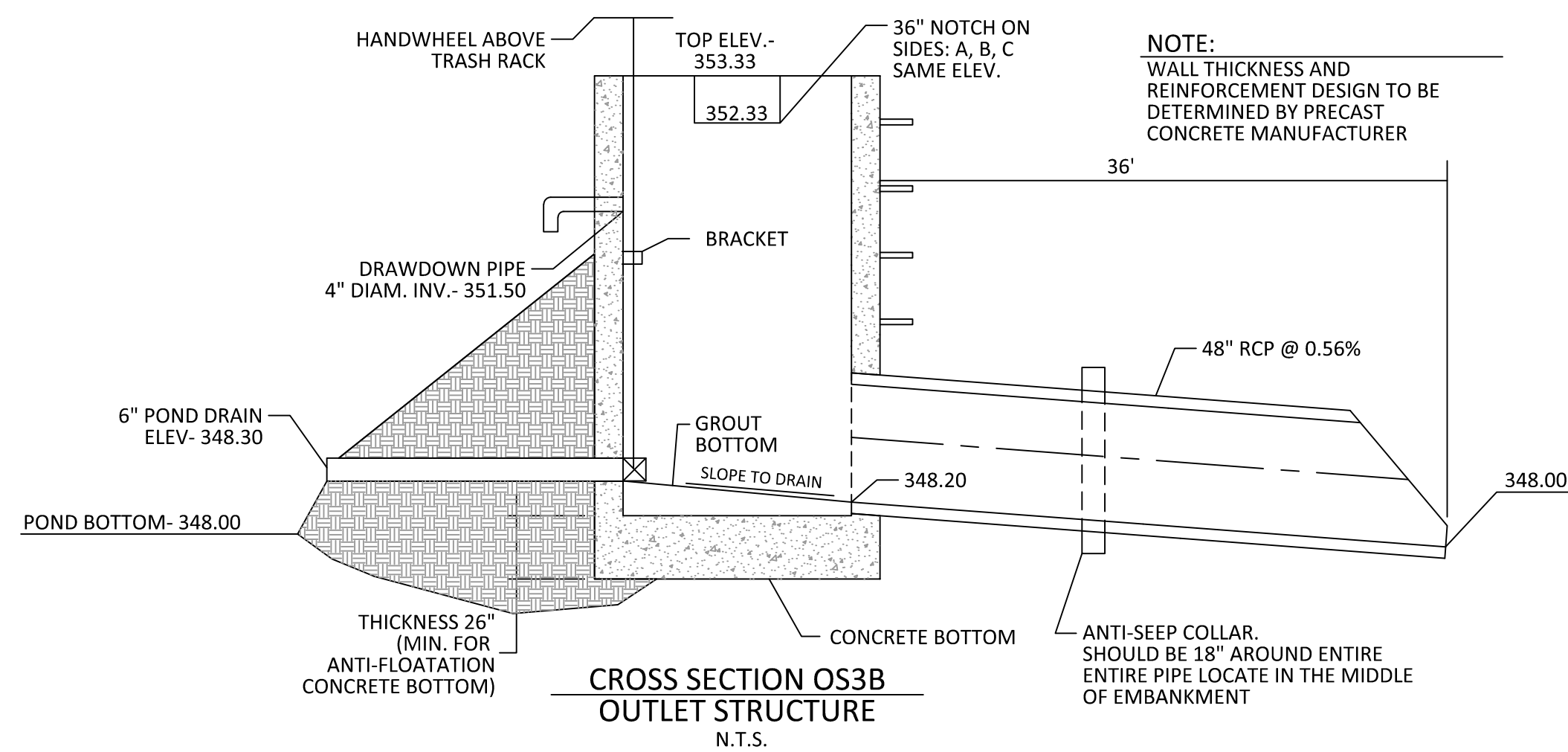
TRASH RACK NOTES

- TRASH RACK SHALL BE 6" CLEAR OF STRUCTURE TOP AND SIDES. THE TRASH RACK NEED NOT COVER THE TREATMENT OUTLET PIPE.
- IF STRUCTURE FEATURES ANY WEIR NOTCHES THE TRASH RACK WILL EXTEND 5" BELOW THE NOTCHES. (SEE CROSS-SECTION OF THE OUTLET STRUCTURE.)
- TRASH RACK SHALL BE FASTENED TO EACH SIDE OF THE STRUCTURE AT AT LEAST 2 POINTS. IT SHALL BE EASILY REMOVED FOR MAINTENANCE OR ENTRY INTO THE STRUCTURE.
- TRASH RACK SHALL ACCOMMODATE VALVE SHAFT THROUGH AN OPENING.
- TRASH RACK SHALL BE MADE OF DURABLE MATERIAL WHICH WILL NOT RUST OR DETERIORATE IN SUNLIGHT.
- MAX. OPENING IN TRASH RACK SHALL BE 5"x5".
- TOP OF TRASH RACK SHALL HAVE A GRID OF BARS (MAX. 6"x6").

NOTE: THE 100 YEAR FLOOD-LINE AS ON THESE PLANS WERE TAKEN FROM THE FLOOD STUDY PREPARED BY DONLAD A SEVER, PE (024527) OF HUGH J. GILLECE, III AND ASSOCIATES, P.A.

NOTE: WALL THICKNESS AND REINFORCEMENT DESIGN TO BE DETERMINED BY PRECAST CONCRETE MANUFACTURER

NOTE: ANTI-SEEP COLLAR SHOULD BE 18" AROUND ENTIRE PIPE LOCATE IN THE MIDDLE OF EMBANKMENT



**CROSS SECTION OS3B
OUTLET STRUCTURE
N.T.S.**

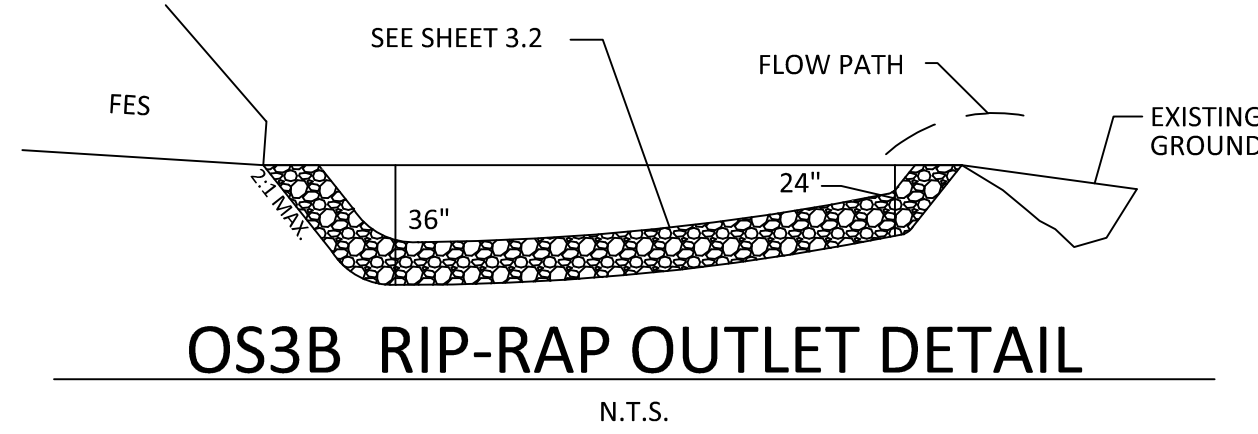
PLANT LIST LITTORAL SHELF PLANT SCHEDULE:

SHALLOW LAND (HERB.)	
EF EUPATORIUM FISTRULOSUM	JOE PYE WEED 4-6" POT @ 3' SPACING
HC HIBISCUS COCCINEA	SCARLET ROSE MALLOW 4-6" POT @ 3' SPACING
CG CHELONE GLABRA	WHITE TURTLEHEAD 4-6" POT @ 3' SPACING
LC LOBELIA CARDINALIS	CARDINAL FLOWER 4-6" POT @ 3' SPACING
SHALLOW WATER (HERB.)	
JE JUNCUS EFFUSES	SOFTRUSH 4-6" POT @ 3' SPACING
AS ACORUS SPP	SWEET FLAG 4-6" POT @ 3' SPACING
IV IRIS VERSICOLOR	BLUE FLAG IRIS 4-6" POT @ 3' SPACING
PC PONTEDERIA CORDATA	PECKEREL WEED 4-6" POT @ 3' SPACING
PV PELTANDRA VIRGINICA	ARROW ARUM 4-6" POT @ 3' SPACING

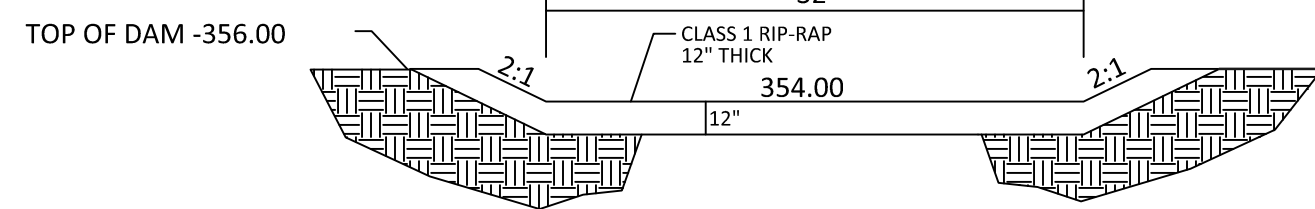
LANDSCAPE PLAN:

SHALLOW LAND= 2,438 sf (USE 609 PLANTS FROM LIST ABOVE)
SHALLOW WATER= 2,374 sf (USE 594 PLANTS FROM LIST ABOVE)
USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF



**OS3B RIP-RAP OUTLET DETAIL
N.T.S.**



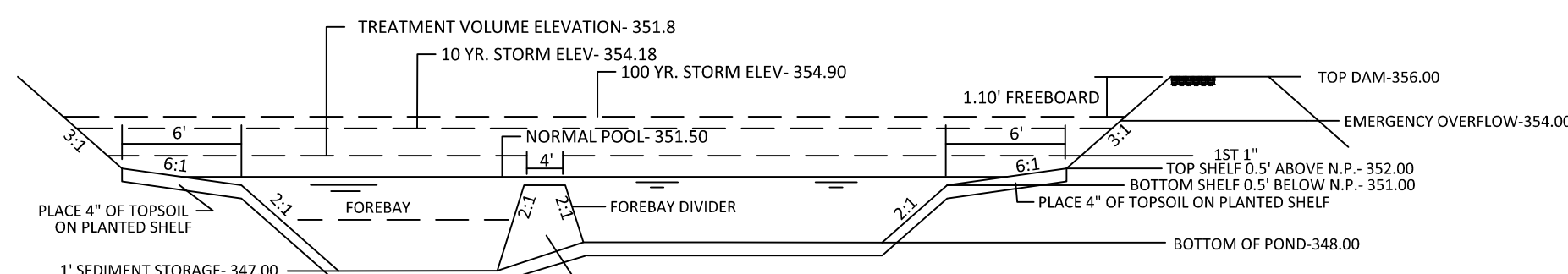
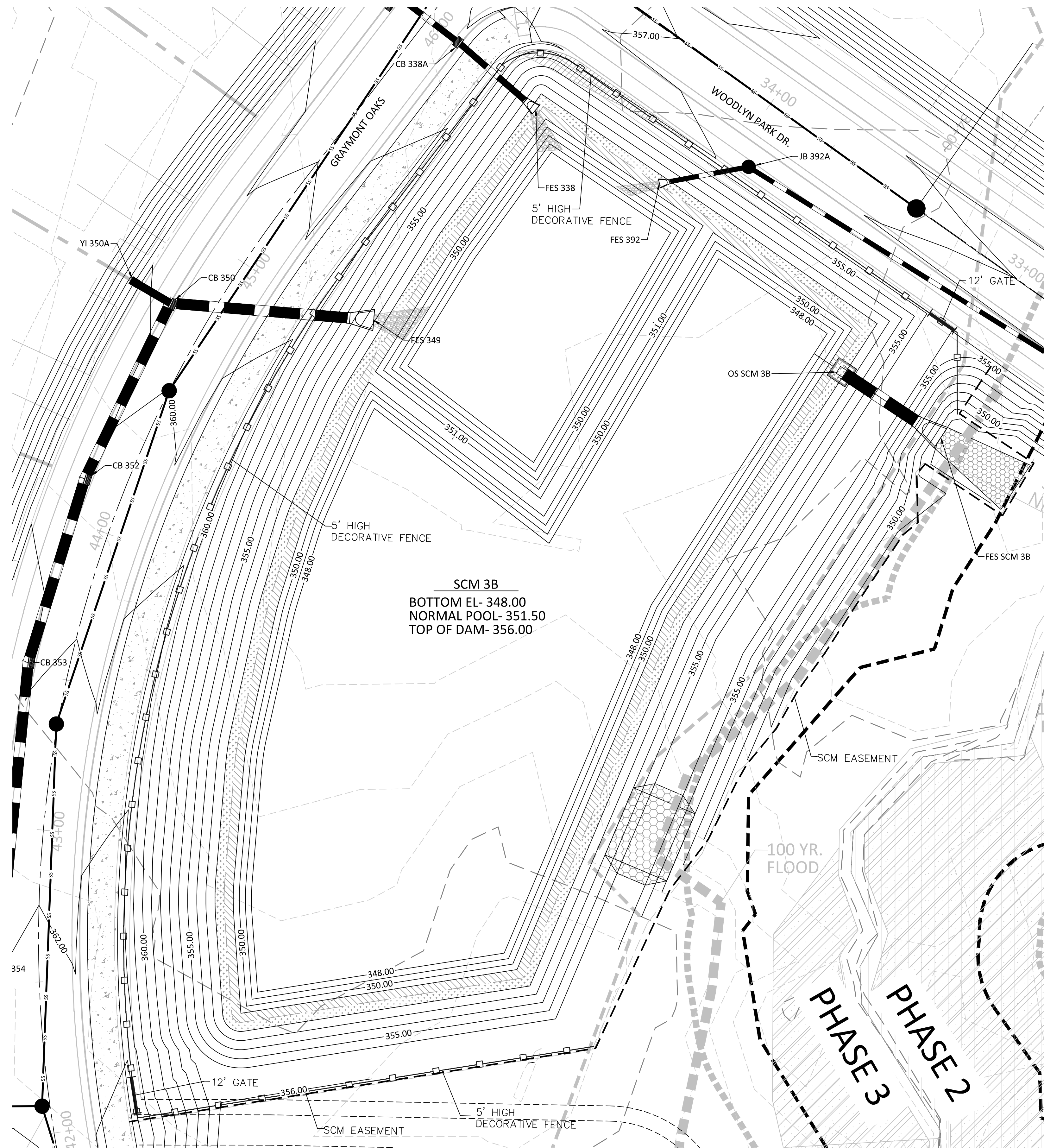
**EMERGENCY SPILLWAY
CROSS-SECTION**

OUTLET STRUCTURE GENERAL NOTES

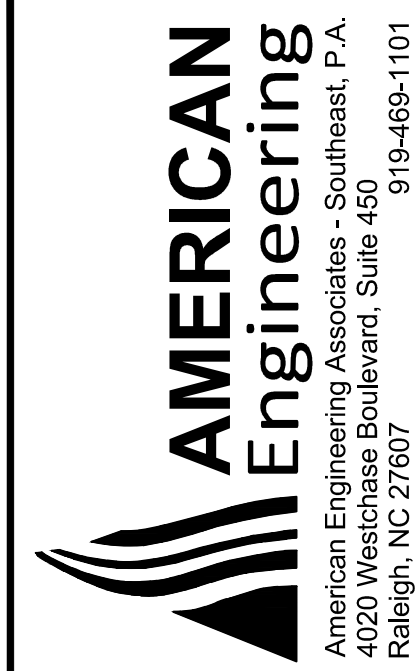
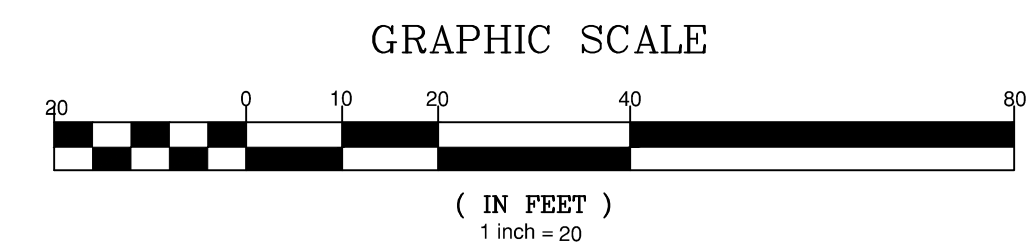
- OUTLET STRUCTURE ELEVATIONS SHOWN ON THE DETAILS ON THIS SHEET ARE CRITICAL AND MUST BE WITHIN 0.02' OF THAT SHOWN. IF OUTLET STRUCTURES ARE PRE-CAST OFF-SITE, THE HOLE FOR THE OUTLET PIPE SHALL BE ENLARGED TO ALLOW UP TO 0.3' OF VERTICAL MOVEMENT. WHEN INSTALLED, THE EXCESS OPENING SHALL BE FILLED WITH GROUT.
- THE OUTLET STRUCTURE SHALL HAVE A TRASH RACK COVERING THE OPENINGS. SUCH TRASH RACK SHALL BE 6" OUT FROM THE OPENING AND SHALL HAVE A MAXIMUM OPENING OF 6"x6". IT SHALL BE SECURELY FASTENED TO THE STRUCTURE BUT REMOVEABLE FOR MAINTENANCE.
- OUTLET PIPES SHALL HAVE AN ANTI-SEEP COLLAR OF CONCRETE LOCATED APPROXIMATELY UNDER THE MIDDLE OF THE DAM IN WHICH IT IS LOCATED. IT SHALL CONSIST OF CONCRETE Poured AROUND THE PIPE IN A VERTICAL DIRECTION. THE COLLAR SHALL BE A SQUARE 8" THICK AND SHALL EXTEND 18" BEYOND THE OUTSIDE OF THE PIPE IN EACH DIRECTION.
- TREATMENT OUTLET PIPE SHALL NOT BE PVC BUT OTHER MATERIAL SUCH AS GSP WHICH IS NOT SUBJECT TO DETERIORATION IN SUNLIGHT.

POND NOTES

- SEE SHEET 3.0 FOR BMP CONVERSION SEQUENCE.
- FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.



**RETENTION POND CROSS-SECTION
NOT TO SCALE**



NO.	DATE	REVISION
1	7/21/2021	1ST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT.
2	9/4/2024	TOWN OF ROLESVILLE CONSULTANT COMMENTS.
3	11/01/2024	CONSTRUCTION DRAWING COMMENT RESPONSES
4	3/11/2025	CONSTRUCTION DRAWING COMMENT RESPONSES

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/LLJES/AH/DH
DATE: NOV 1, 2024

SHEET TITLE:
**SCM 3B
DETAILS**

SHEET NO.:
4.6

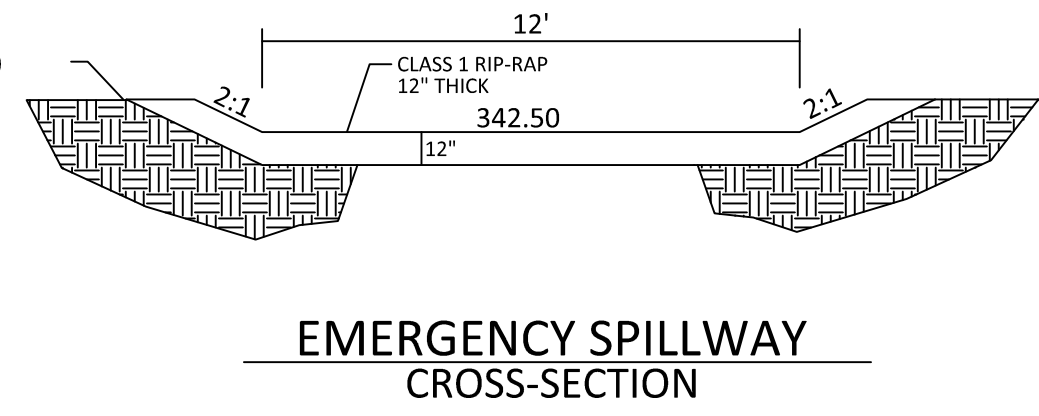
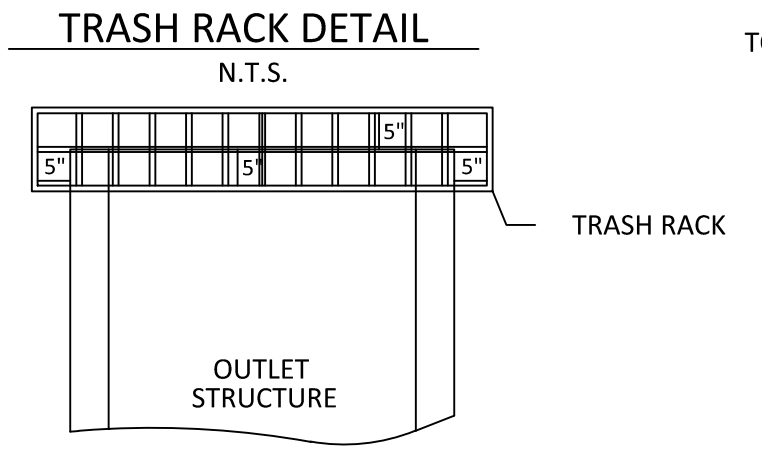
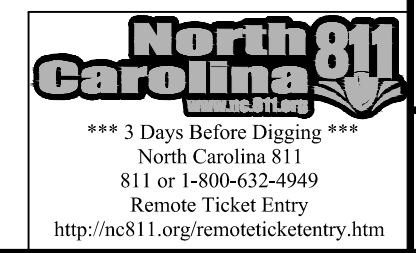


NO.	DATE	REVISION
1	7/27/2021	ISSUED FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH
2	9/4/2024	REVISED PER ROLESVILLE CONSULTANT COMMENTS
3	10/7/2024	CONSTRUCTION DRAWING COMMENT RESPONSES
4	3/7/2025	CONSTRUCTION DRAWING COMMENT RESPONSES

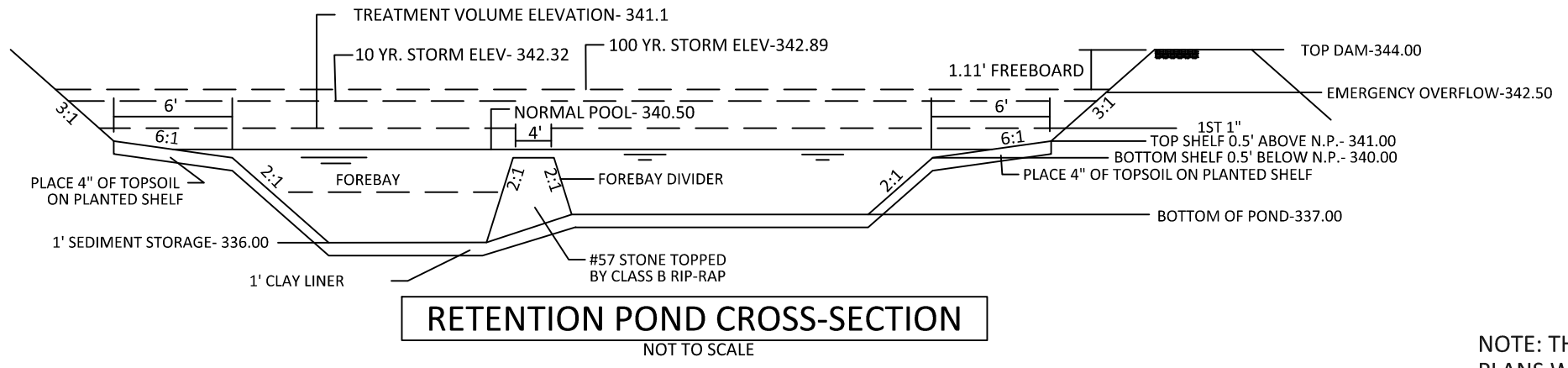
STIPULATION FOR REUSE
 THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTAMINATED WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE 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
 SHEET TITLE: SCM 3C DETAILS
 SHEET NO.: 4.7



- TRASH RACK NOTES**
- TRASH RACK SHALL BE 6" CLEAR OF STRUCTURE TOP AND SIDES. THE TRASH RACK NEED NOT COVER THE TREATMENT OUTLET PIPE.
 - TRASH RACK SHALL BE FASTENED TO EACH SIDE OF THE STRUCTURE AT AT LEAST 2 POINTS. IT SHALL BE EASILY REMOVED FOR MAINTENANCE OR ENTRY INTO THE STRUCTURE.
 - TRASH RACK SHALL ACCOMMODATE VALVE SHAFT THROUGH AN OPENING.
 - TRASH RACK SHALL BE MADE OF DURABLE MATERIAL WHICH WILL NOT RUST OR DETERIORATE IN SUNLIGHT.
 - MAX. OPENING IN TRASH RACK SHALL BE 5"x5".
 - TOP OF TRASH RACK SHALL HAVE A GRID OF BARS (MAX. 6"x6").

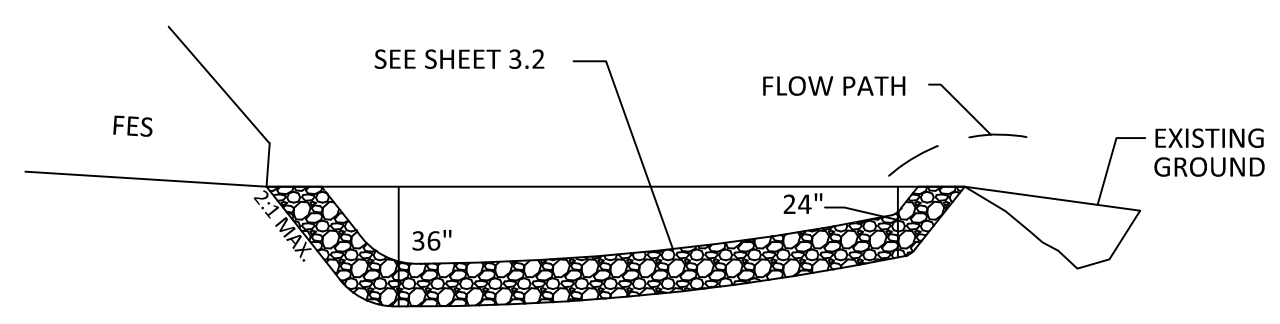


NOTE: THE 100 YEAR FLOOD-LINE AS ON THESE PLANS WERE TAKEN FROM THE FLOOD STUDY PREPARED BY DONLAD A SEVER, PE (024627) OF HUGH J. GILLEECE, III AND ASSOCIATES, P.A.

- PLANT LIST LITTORAL SHELF PLANT SCHEDULE:**
- SHALLOW LAND (HERB.)**
- EF EUPATORIUM FISTRULOSUM 4-6" POT @ 3' SPACING
 - HC HIBISCUS COCCINEA SCARLET ROSE MALLOW 4-6" POT @ 3' SPACING
 - CG CHELONE GLABRA WHITE TURTLEHEAD 4-6" POT @ 3' SPACING
 - LC LOBELIA CARDINALIS CARDINAL FLOWER 4-6" POT @ 3' SPACING
- SHALLOW WATER (HERB.)**
- JE JUNCUS EFFUSUS SOFTRUSH 4-6" POT @ 3' SPACING
 - AS ACORUS SPP SWEET FLAG 4-6" POT @ 3' SPACING
 - IV IRIS VERSICOLOR BLUE FLAG IRIS 4-6" POT @ 3' SPACING
 - PC PONTEDERIA CORDATA PECKEREL WEED 4-6" POT @ 3' SPACING
 - PV PELTANDRA VIRGINICA ARROW ARUM 4-6" POT @ 3' SPACING

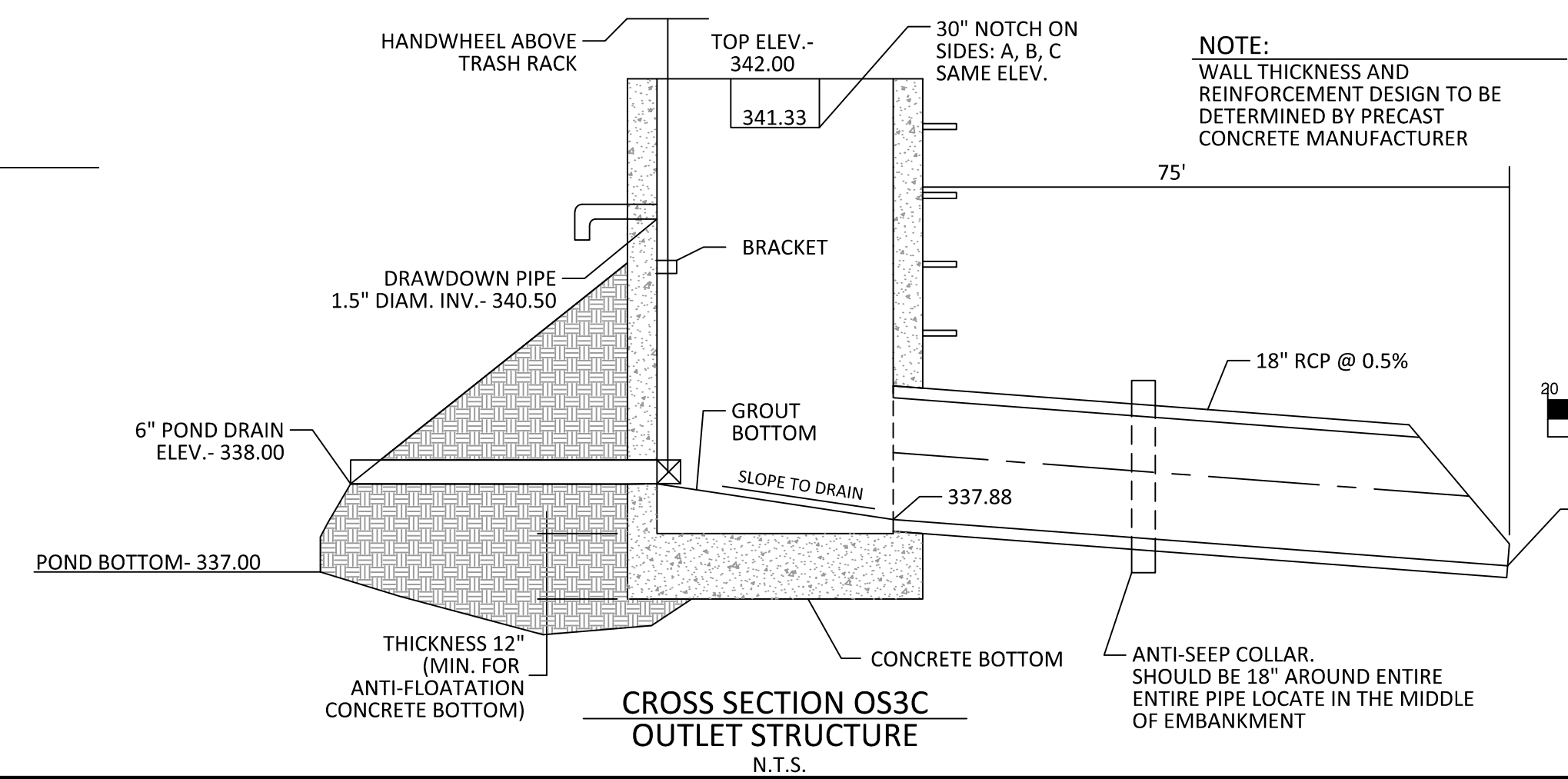
LANDSCAPE PLAN:
 SHALLOW LAND= 1,734 sf (USE 434 PLANTS FROM LIST ABOVE)
 SHALLOW WATER= 1,668 sf (USE 417 PLANTS FROM LIST ABOVE)
 USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF

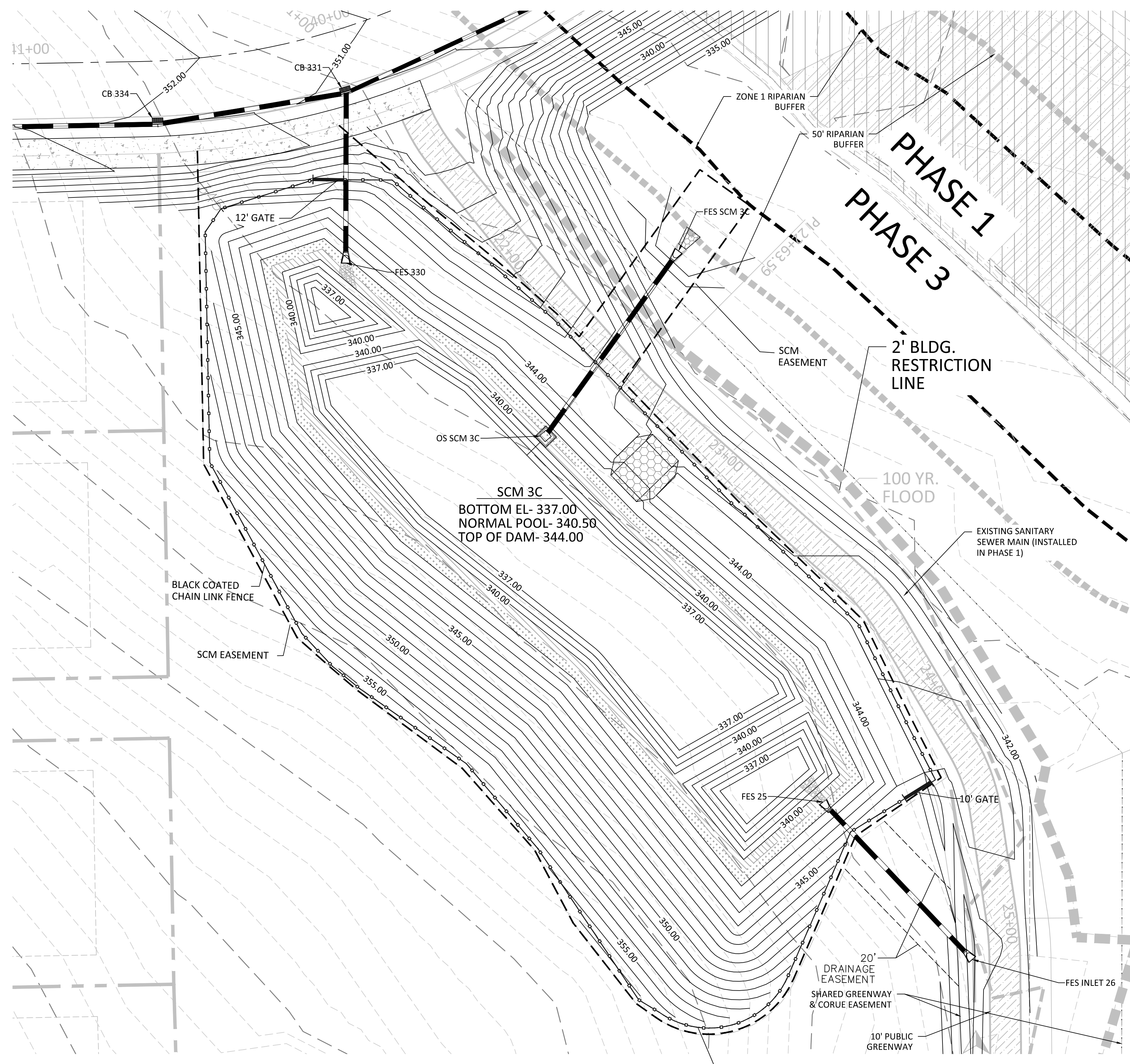
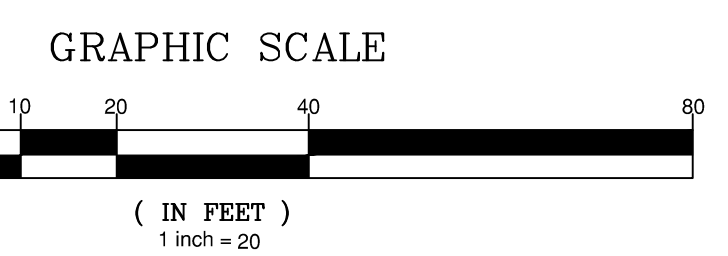
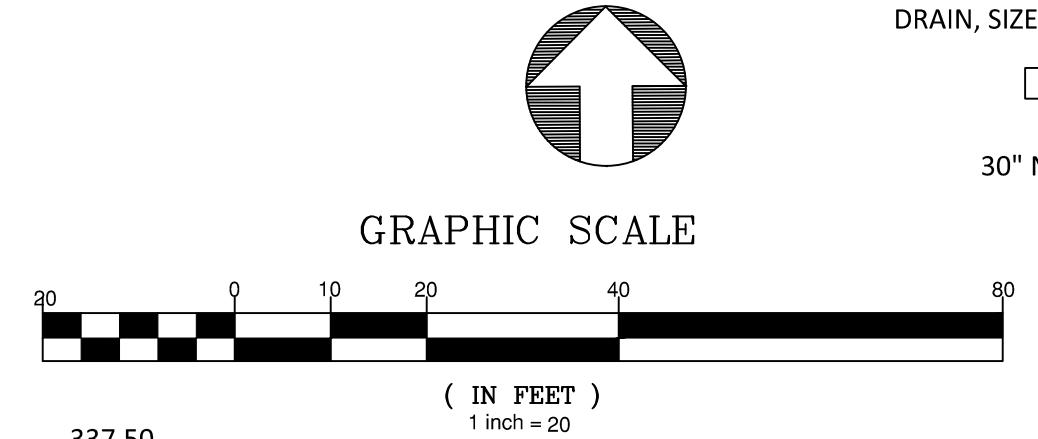


- OUTLET STRUCTURE GENERAL NOTES**
- OUTLET STRUCTURE ELEVATIONS SHOWN ON THE DETAILS ON THIS SHEET ARE CRITICAL AND MUST BE WITHIN 0.02' OF THAT SHOWN. IF OUTLET STRUCTURES ARE PRE-CAST OFF-SITE, THE HOLE FOR THE OUTLET PIPE SHALL BE ENLARGED TO ALLOW UP TO 0.3' OF VERTICAL MOVEMENT. WHEN INSTALLED, THE EXCESS OPENING SHALL BE FILLED WITH GROUT.
 - THE OUTLET STRUCTURE SHALL HAVE A TRASH RACK COVERING THE OPENINGS. SUCH TRASH RACK SHALL BE 6" OUT FROM THE OPENING AND SHALL HAVE A MAXIMUM OPENING OF 6"x6". IT SHALL BE SECURELY FASTENED TO THE STRUCTURE BUT REMOVEABLE FOR MAINTENANCE.
 - OUTLET PIPES SHALL HAVE AN ANTI-SEEP COLLAR OF CONCRETE LOCATED APPROXIMATELY UNDER THE MIDDLE OF THE DAM IN WHICH IT IS LOCATED. IT SHALL CONSIST OF CONCRETE POURED AROUND THE PIPE IN A VERTICAL DIRECTION. THE COLLAR SHALL BE A SQUARE 8" THICK AND SHALL EXTEND 18" BEYOND THE OUTSIDE OF THE PIPE IN EACH DIRECTION.
 - TREATMENT OUTLET PIPE SHALL NOT BE PVC BUT OTHER MATERIAL SUCH AS GSP WHICH IS NOT SUBJECT TO DETERIORATION IN SUNLIGHT.

- POND NOTES**
- SEE SHEET 3.0 FOR BMP CONVERSION SEQUENCE.
 - FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.

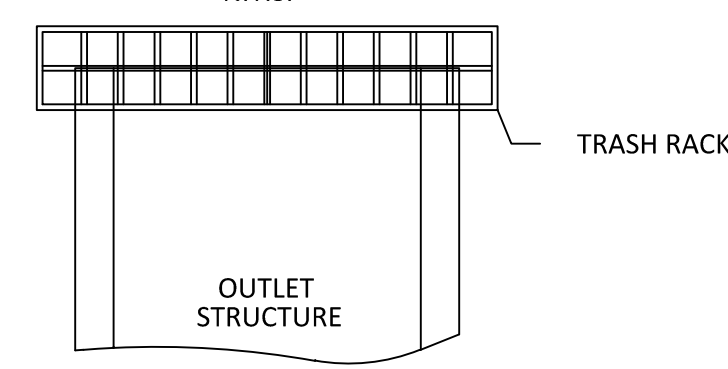


NOTE: WALL THICKNESS AND REINFORCEMENT DESIGN TO BE DETERMINED BY PRECAST CONCRETE MANUFACTURER



2/24/2025 11:00 AM (Working Days) Phase 3/Sheet No. 4.4.11 Phase 3/SCM 3C Details.dwg

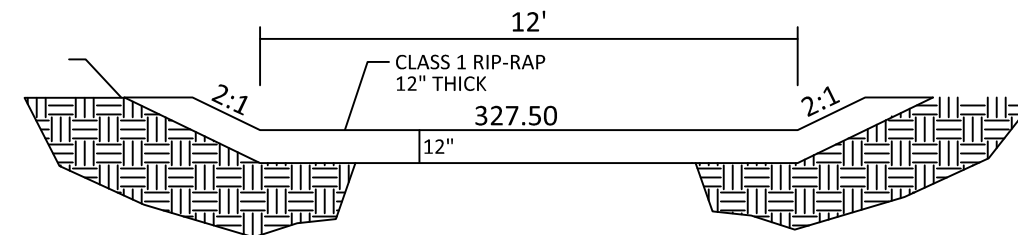
TRASH RACK DETAIL
N.T.S.



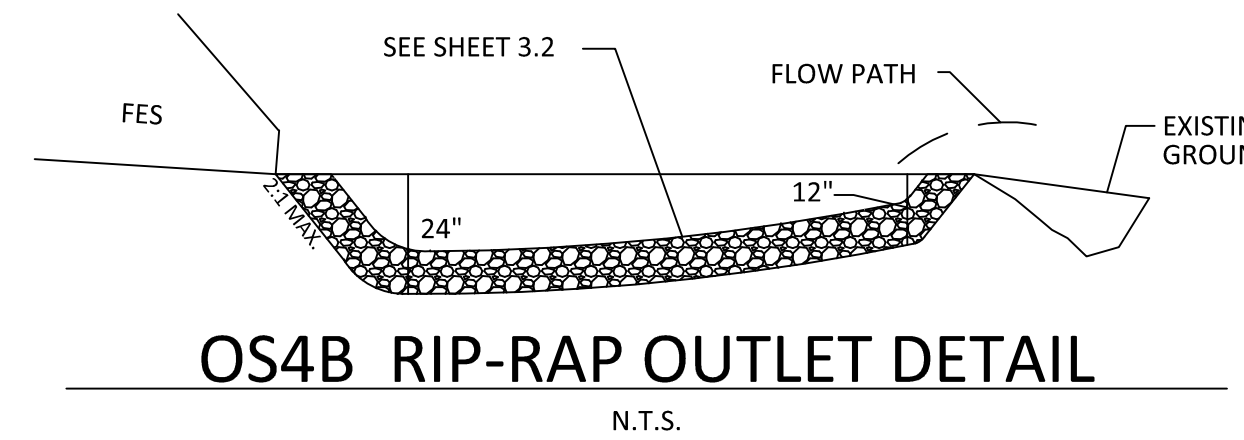
TRASH RACK NOTES

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3. TRASH RACK SHALL BE FASTENED TO EACH SIDE OF THE STRUCTURE AT AT LEAST 2 POINTS. IT SHALL BE EASILY REMOVED FOR MAINTENANCE OR ENTRY INTO THE STRUCTURE.
4. TRASH RACK SHALL ACCOMMODATE VALVE SHAFT THROUGH AN OPENING.
5. TRASH RACK SHALL BE MADE OF DURABLE MATERIAL WHICH WILL NOT RUST OR DETERIORATE IN SUNLIGHT.
6. MAX. OPENING IN TRASH RACK SHALL BE 5"x5".
7. TOP OF TRASH RACK SHALL HAVE A GRID OF BARS (MAX. 6"x6").

TOP OF DAM -329.00



EMERGENCY SPILLWAY CROSS-SECTION



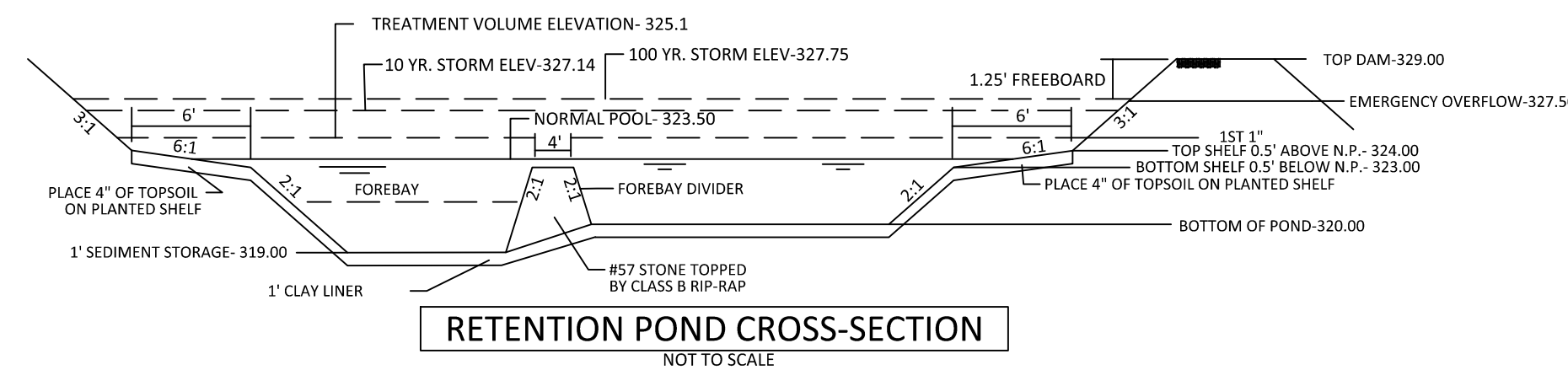
OS4B RIP-RAP OUTLET DETAIL
N.T.S.

PLANT LIST LITTORAL SHELF PLANT SCHEDULE:

SHALLOW LAND (HERB.)	SHALLOW WATER (HERB.)
EF EUPATORIUM FISTRULOSUM JOE PYE WEED 4-6" POT @ 3' SPACING	JE JUNCUS EFFUSES SOFTRUSH 4-6" POT @ 3' SPACING
HC HIBISCUS COCCINEA SCARLET ROSE MALLOW 4-6" POT @ 3' SPACING	AS ACORUS SPP SWEET FLAG 4-6" POT @ 3' SPACING
CG CHELONE GLABRA WHITE TURTLEHEAD 4-6" POT @ 3' SPACING	IV IRIS VERSICOLOR BLUE FLAG IRIS 4-6" POT @ 3' SPACING
LC LOBELIA CARDINALIS CARDINAL FLOWER 4-6" POT @ 3' SPACING	PC PONTEDERIA CORDATA PECKEREL WEED 4-6" POT @ 3' SPACING
	PV PELTANDRA VIRGINICA ARROW ARUM 4-6" POT @ 3' SPACING

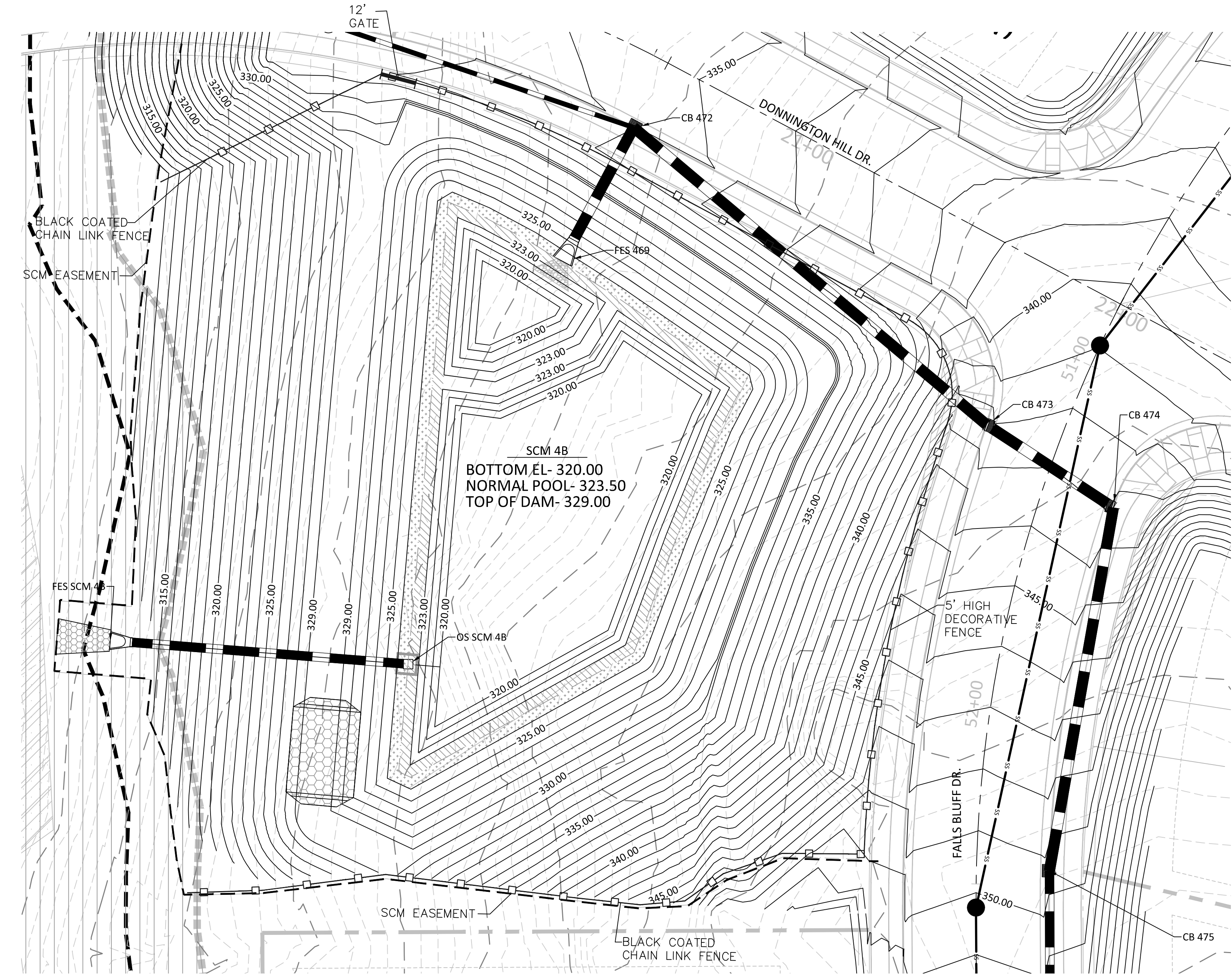
LANDSCAPE PLAN:
SHALLOW LAND= 1,281 sf (USE 320 PLANTS FROM LIST ABOVE)
SHALLOW WATER= 1,217 sf (USE 304 PLANTS FROM LIST ABOVE)
USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF



RETENTION POND CROSS-SECTION
NOT TO SCALE

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.

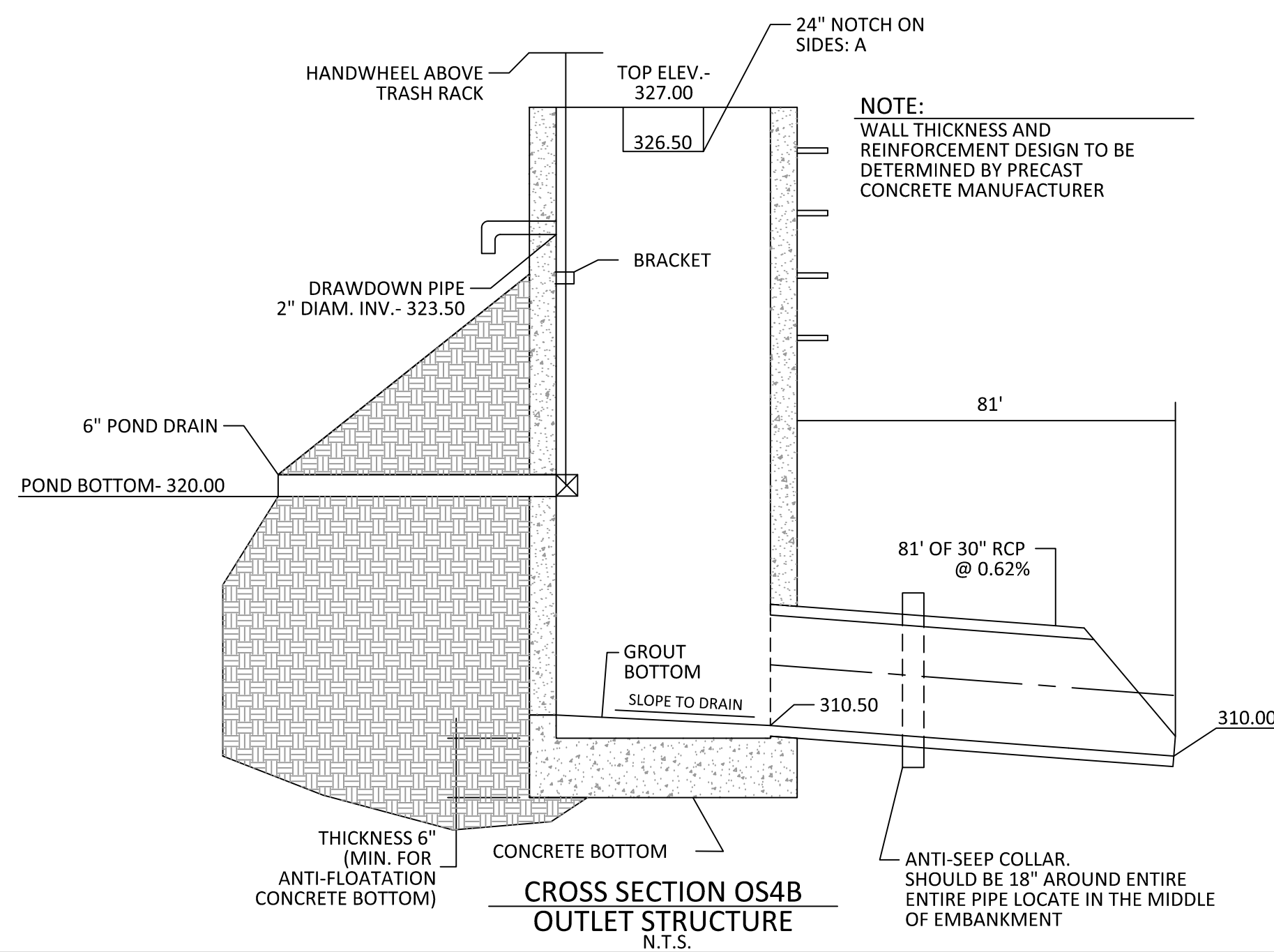


OUTLET STRUCTURE GENERAL NOTES

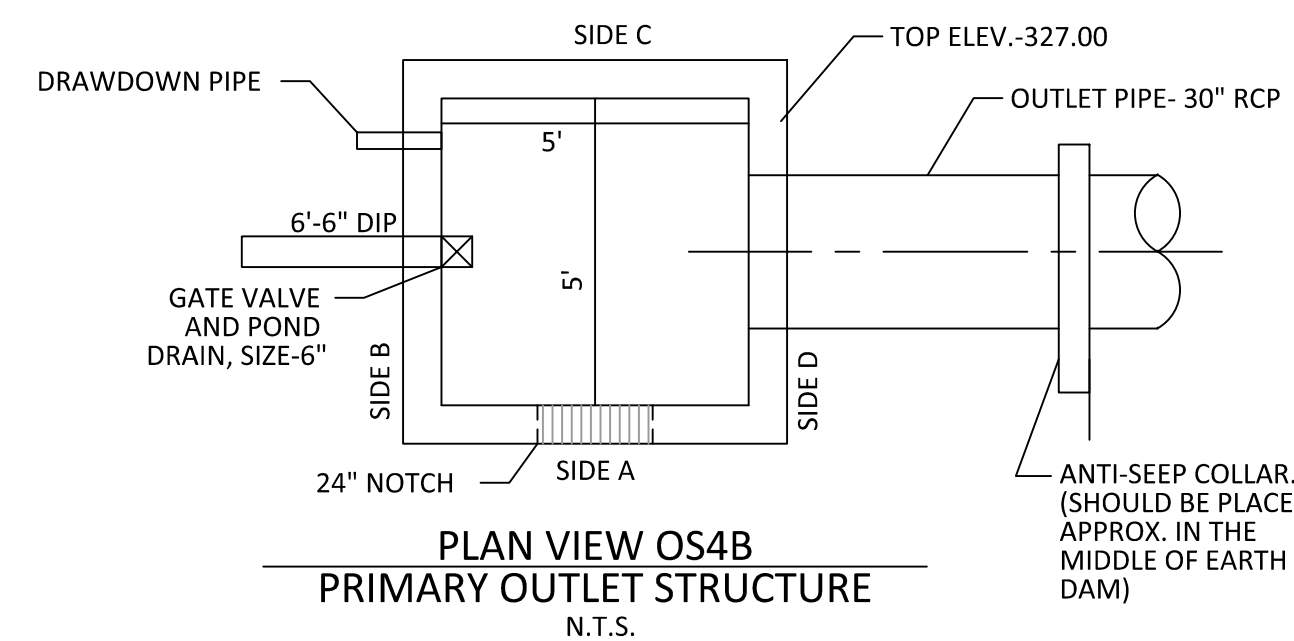
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POND NOTES

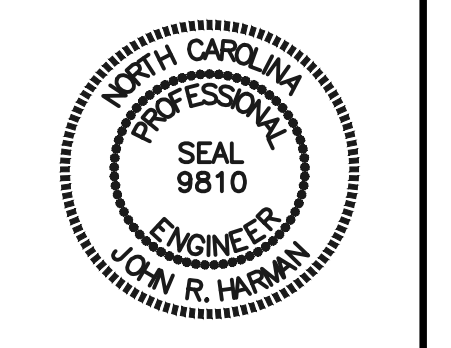
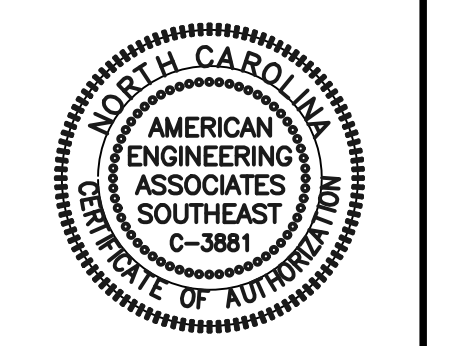
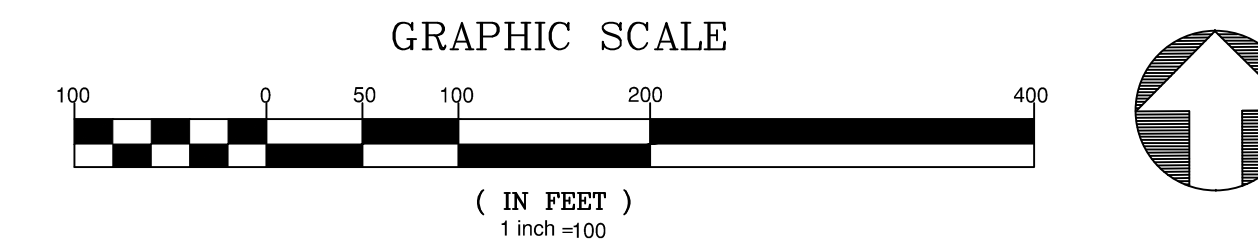
1. SEE SHEET 3.0 FOR BMP CONVERSION SEQUENCE.
2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.



CROSS SECTION OS4B OUTLET STRUCTURE
N.T.S.



PLAN VIEW OS4B PRIMARY OUTLET STRUCTURE
N.T.S.



NO.	DATE	REVISION
1	7/27/2021	ISSUE FROM TOWN OF ROLESVILLE CONSULTANT, MAKE CORRECTIONS AND CITY OF RALEIGH REVIEW
2	9/4/2021	TOWN OF ROLESVILLE CONSULTANT COMMENTS
3	1/10/2022	CONSTRUCTION DRAWING COMMENT RESPONSES
4	3/17/2023	CONSTRUCTION DRAWING COMMENT RESPONSES

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.

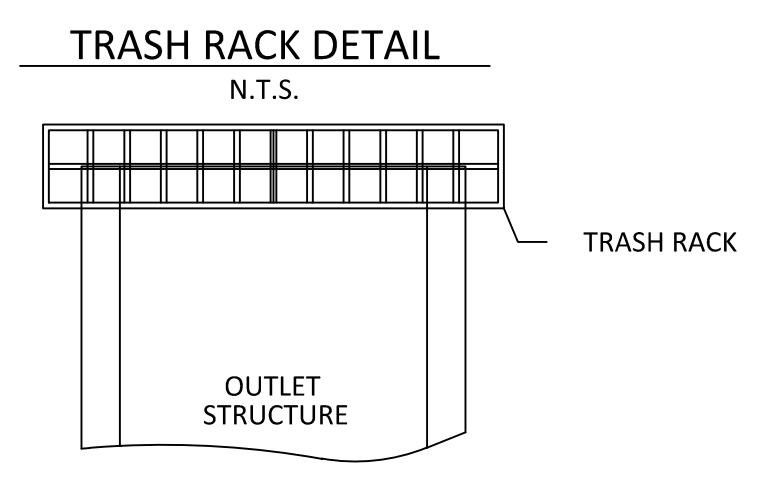
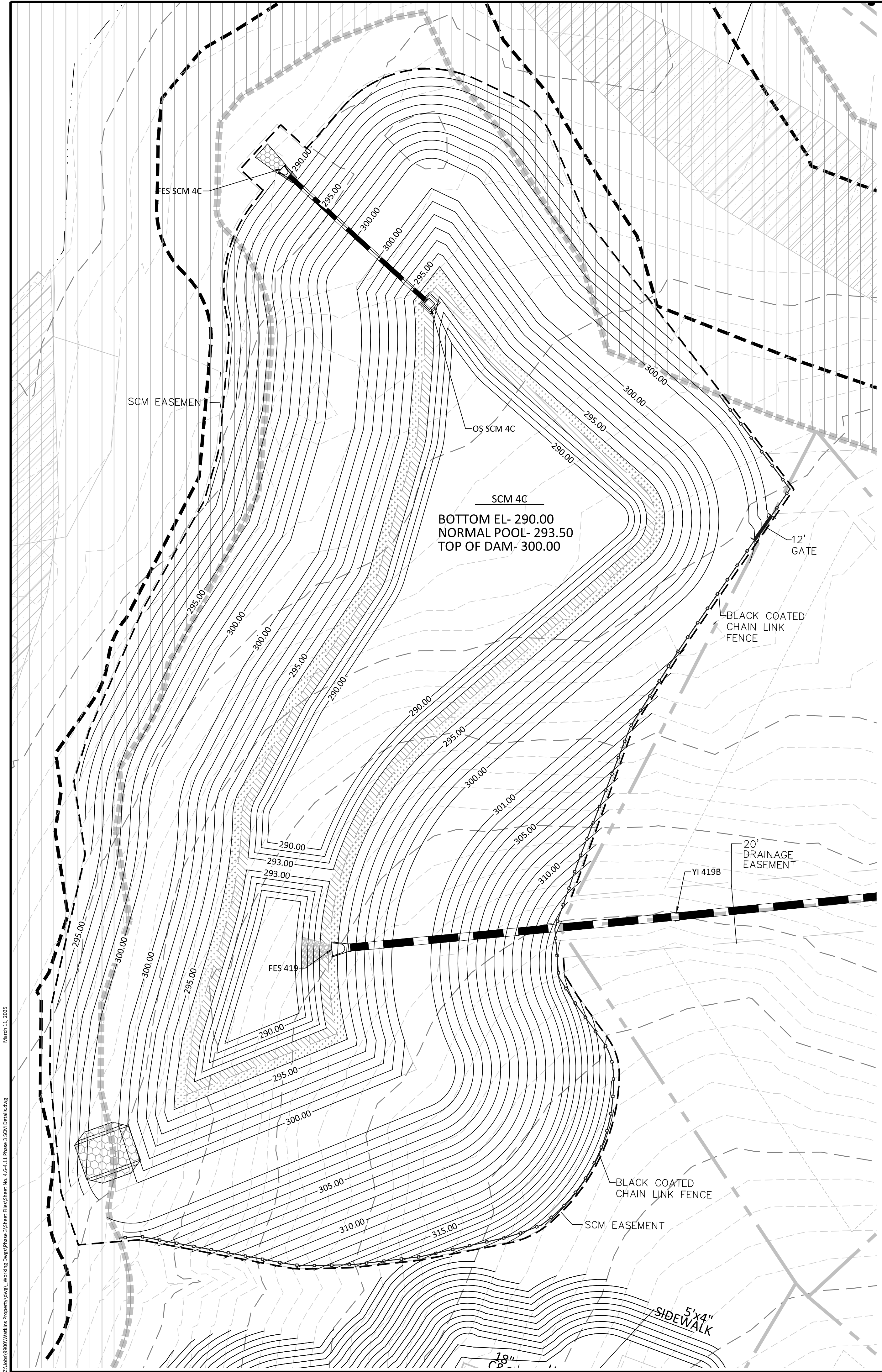
KALAS FALLS PHASE 3
1832 ROLESVILLE ROAD
WAKE COUNTY, NC

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

SHEET TITLE:
SCM 4B DETAILS
SHEET NO.: 4.8



2:\Jobs\9900\Working\Drawings\Phase 3\SCM Details.dwg, March 11, 2025



- ### TRASH RACK NOTES
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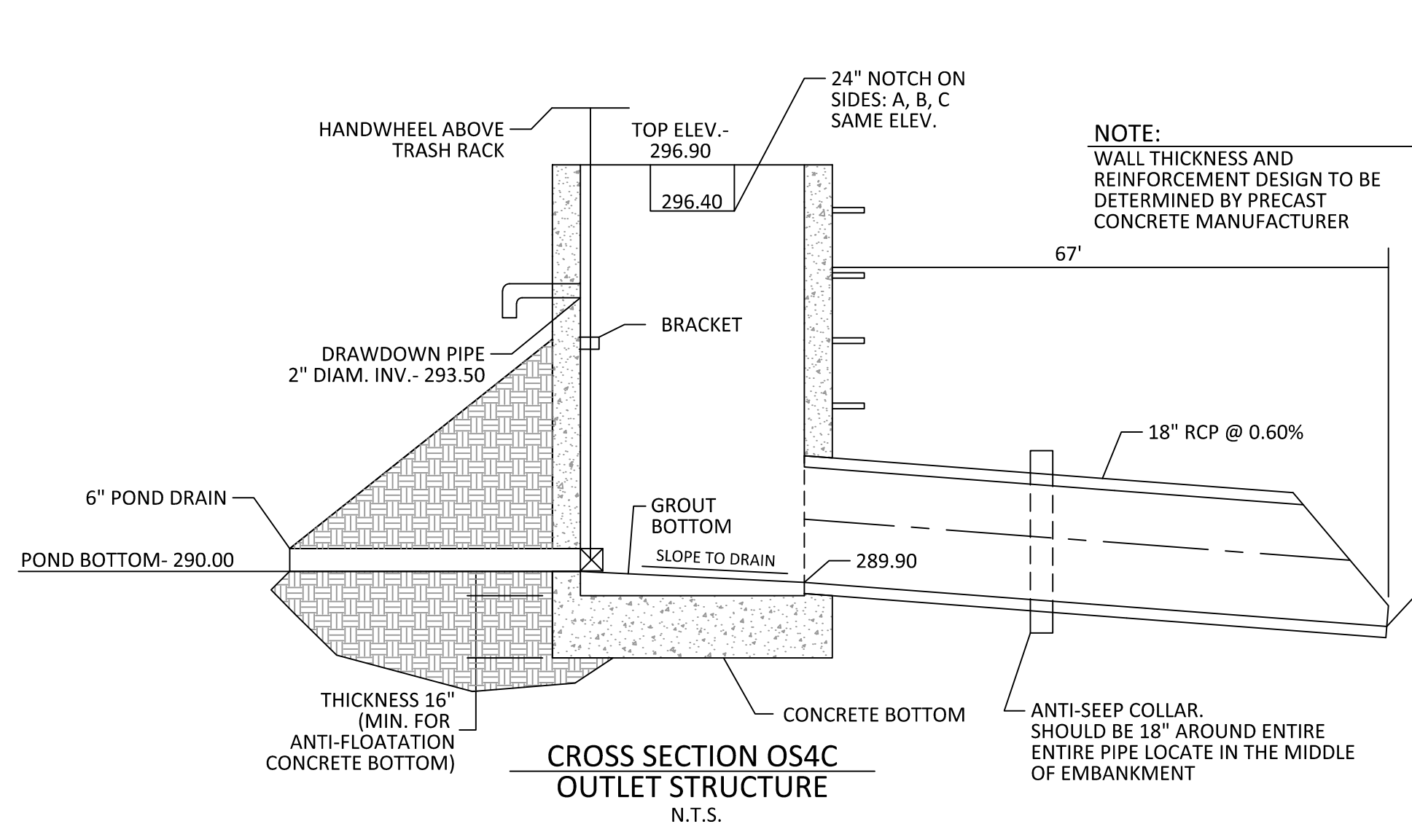
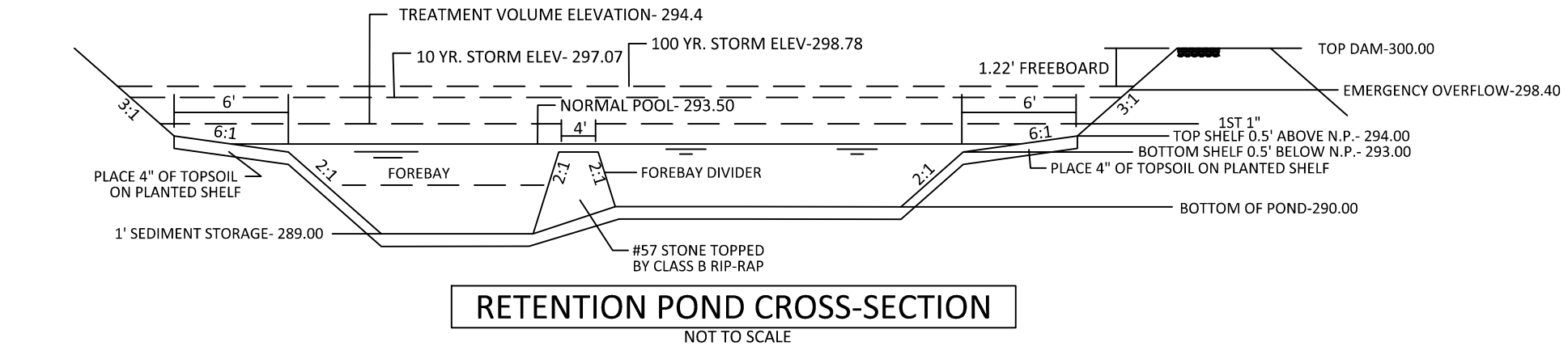
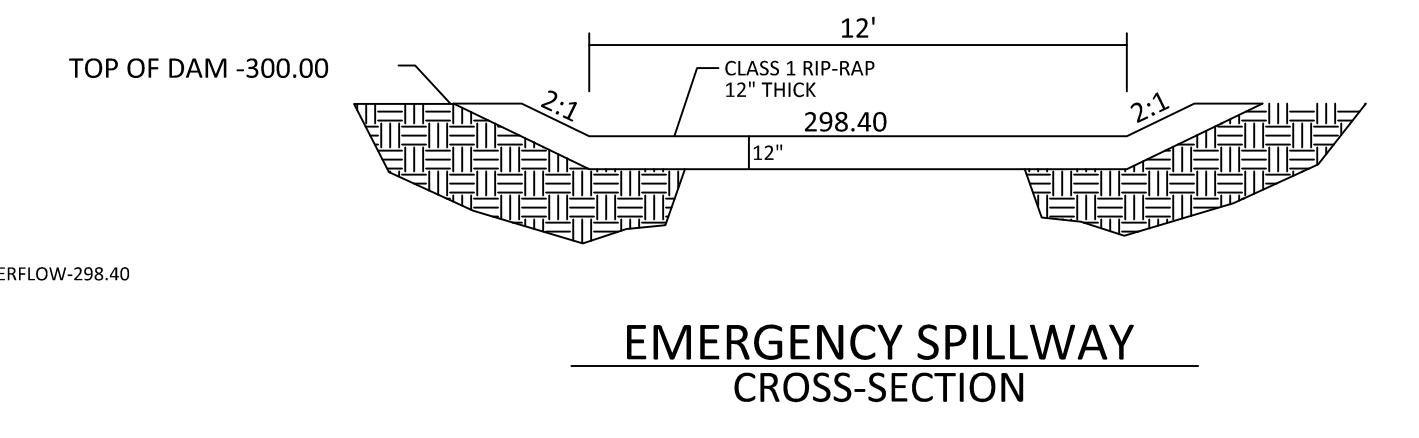
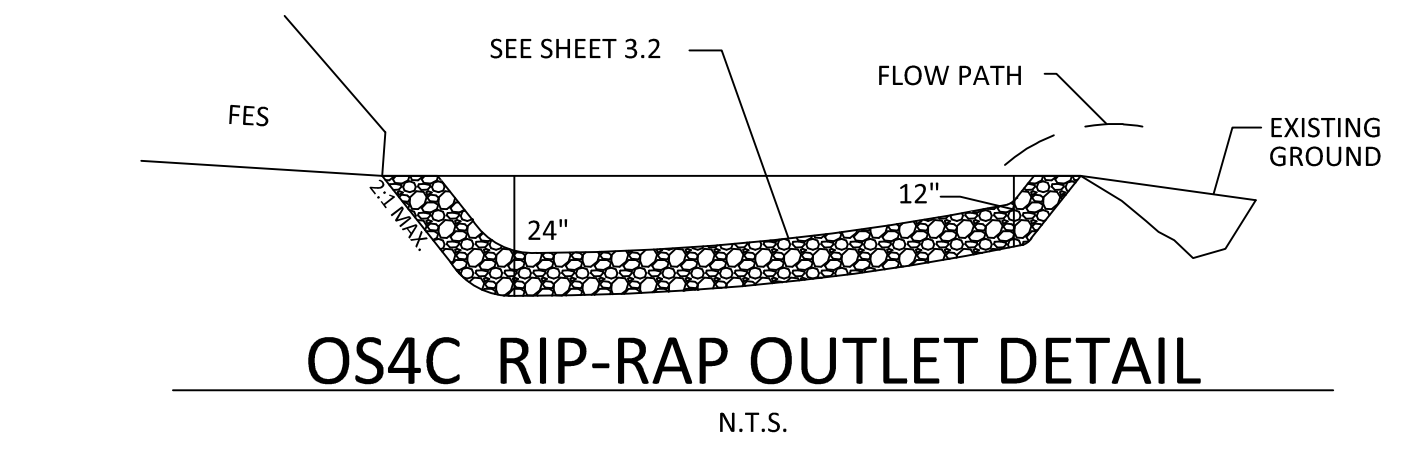
PLANT LIST LITTORAL SHELF PLANT SCHEDULE:

SHALLOW LAND (HERB.)		SHALLOW WATER (HERB.)	
EF EUPATORIUM FISTRULOSUM	JOE PYE WEED	JE JUNCUS EFFUSES	SOFTRUSH
HC HIBISCUS COCCINEA	SCARLET ROSE MALLOW	AS ACORUS SPP	SWEET FLAG
CG CHELONE GLABRA	WHITE TURTLEHEAD	IV IRIS VERSICOLOR	BLUE FLAG IRIS
LC LOBELIA CARDINALIS	CARDINAL FLOWER	PC PONTEDERIA CORDATA	PECKEREL WEED
		PV PELTANDRA VIRGINICA	ARROW ARUM

4-6" POT @ 3' SPACING
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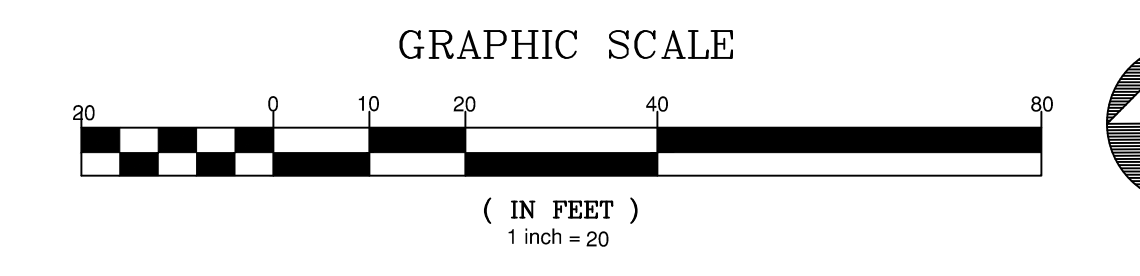
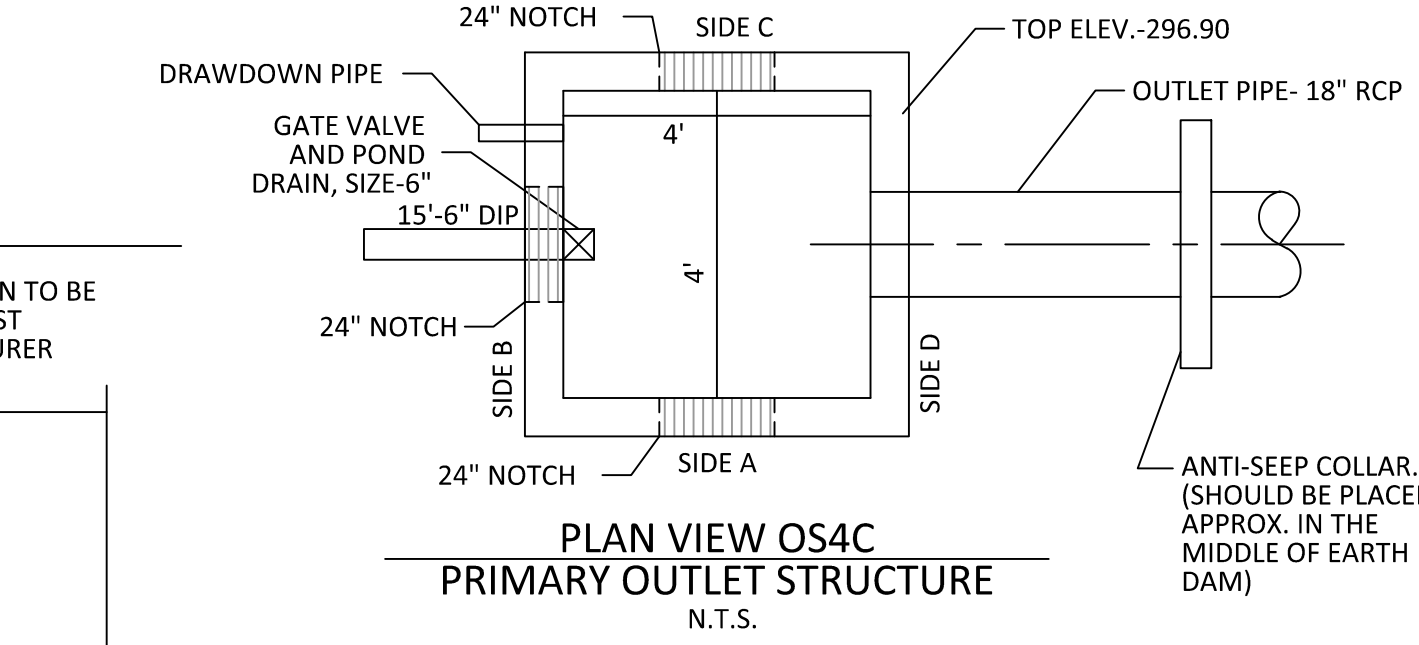
LANDSCAPE PLAN:
SHALLOW LAND= 2,039 sf (USE 510 PLANTS FROM LIST ABOVE)
SHALLOW WATER= 1,961 sf (USE 490 PLANTS FROM LIST ABOVE)
USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF

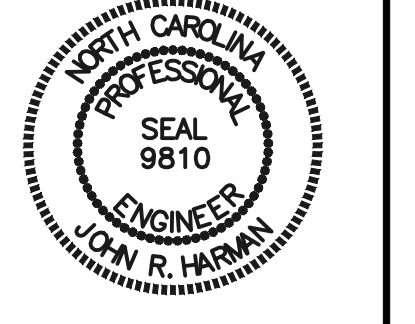


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 - FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.



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



NO.	DATE	REVISION
1	7/21/2025	REVISED FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH
2	9/4/2024	REVISED FROM TOWN OF ROLESVILLE CONSULTANT COMMENTS
3	11/07/2024	CONSTRUCTION DRAWING COMMENT RESPONSES
4	3/17/2025	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/ES/AH/DH
DATE:	NOV 1, 2024
SHEET TITLE:	SCM 4C DETAILS
SHEET NO.:	4.9



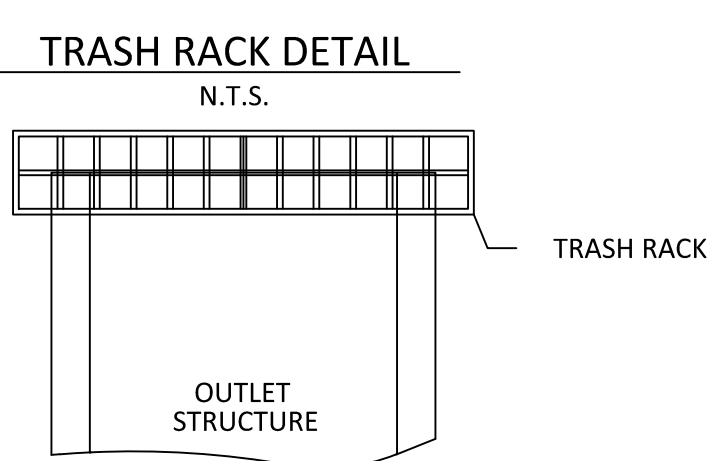
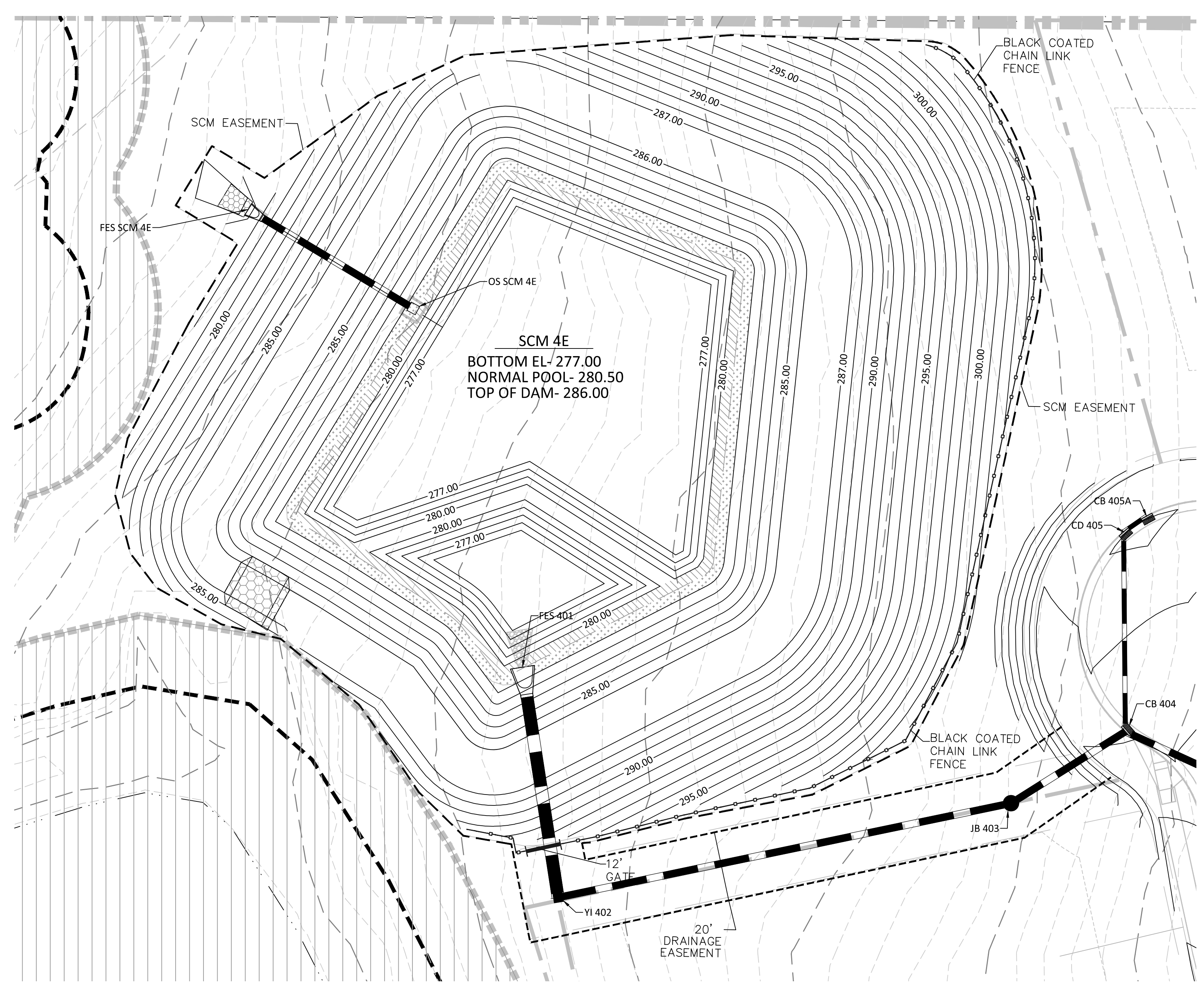
NO.	DATE	REVISION
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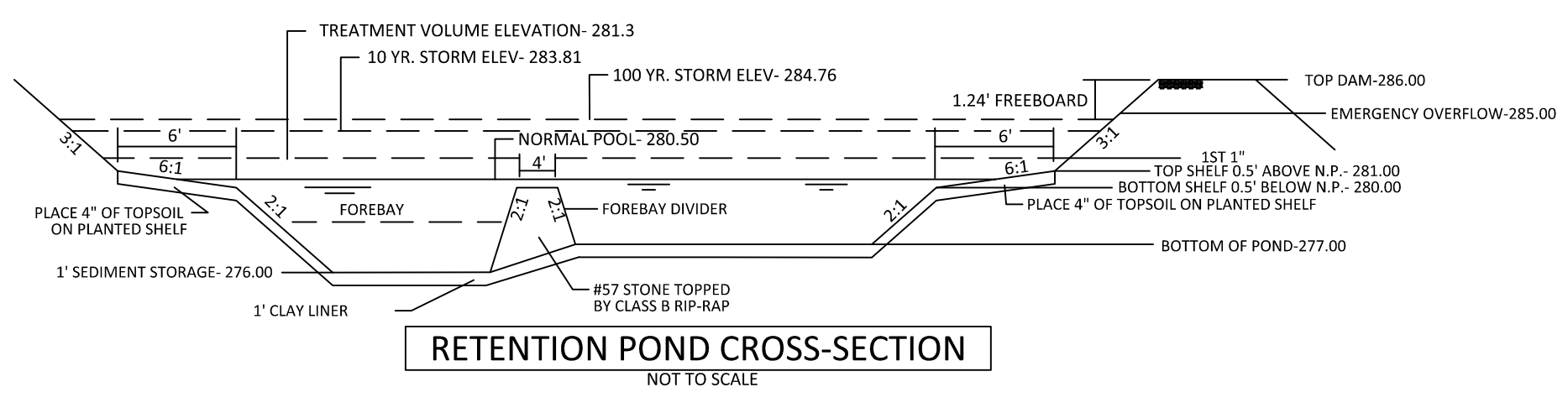
**KALAS FALLS
PHASE 3
1832 ROLESVILLE ROAD
WAKE COUNTY, NC**

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

SHEET TITLE:
**SCM 4E
DETAILS**
SHEET NO.:
4.10



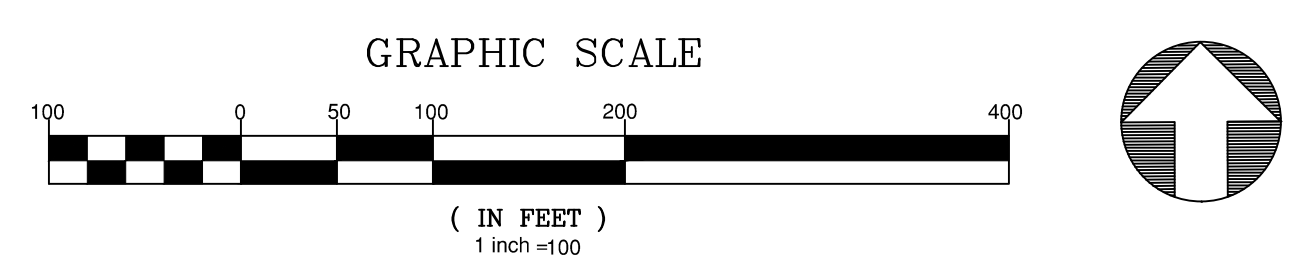
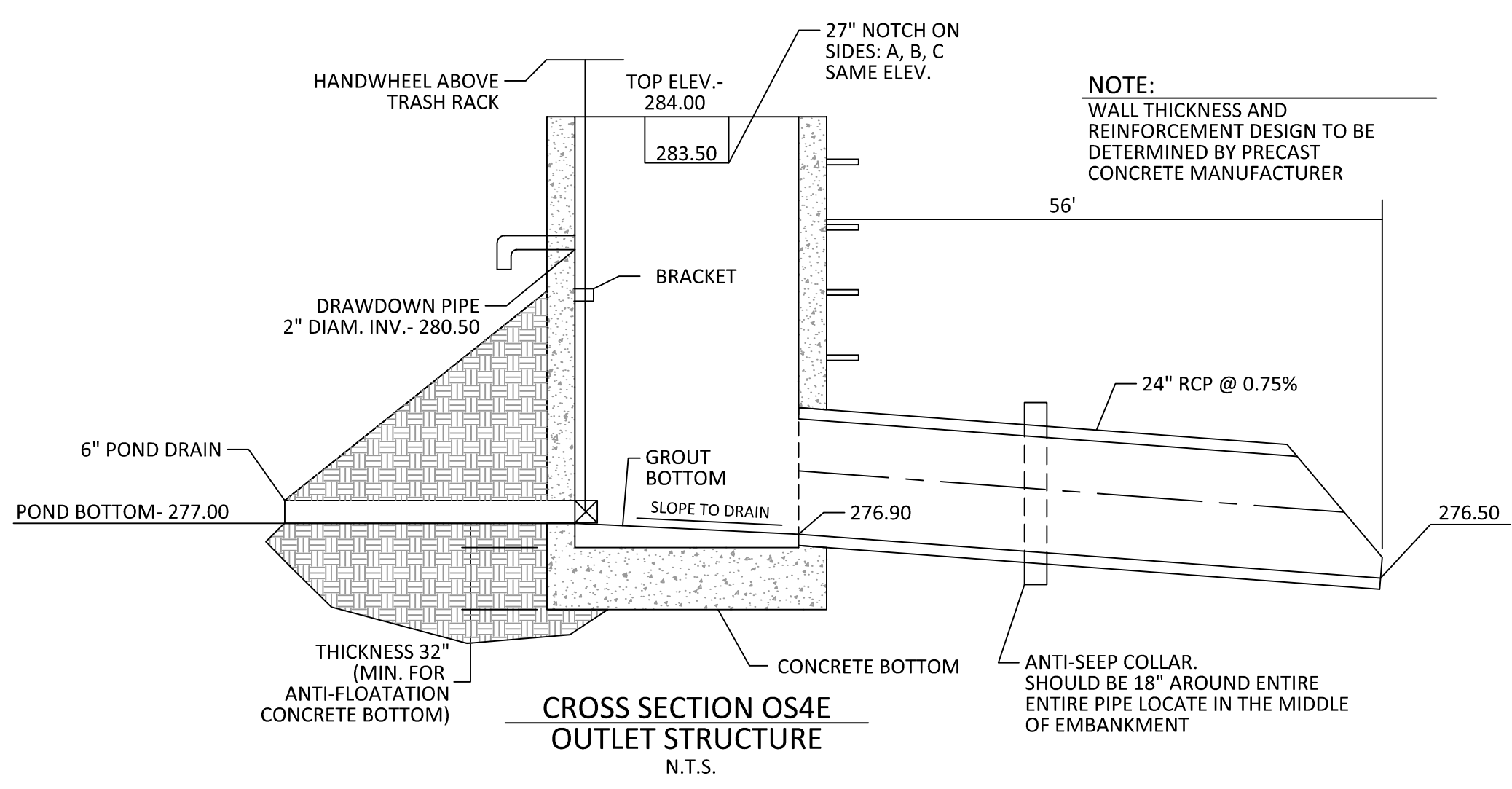
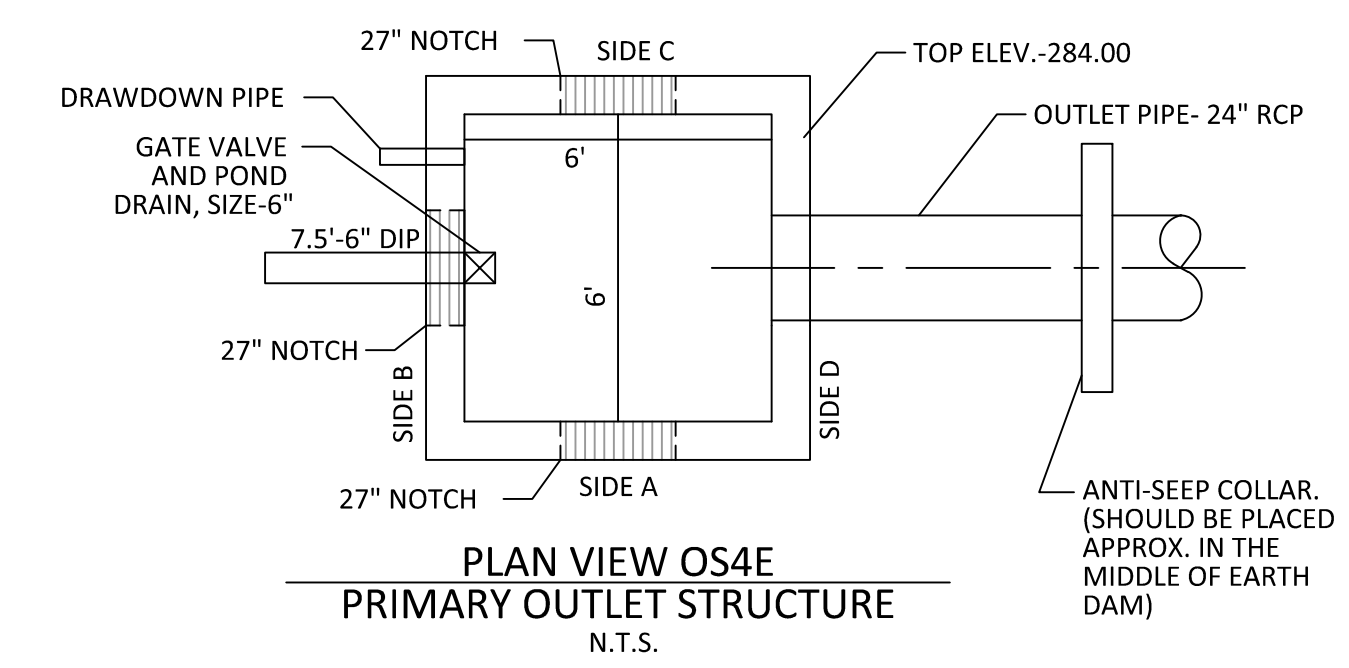
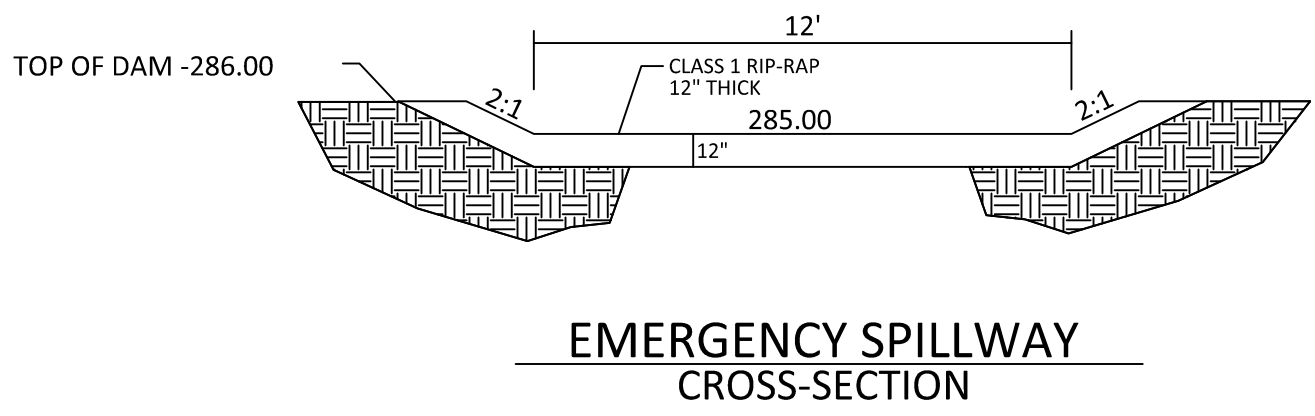
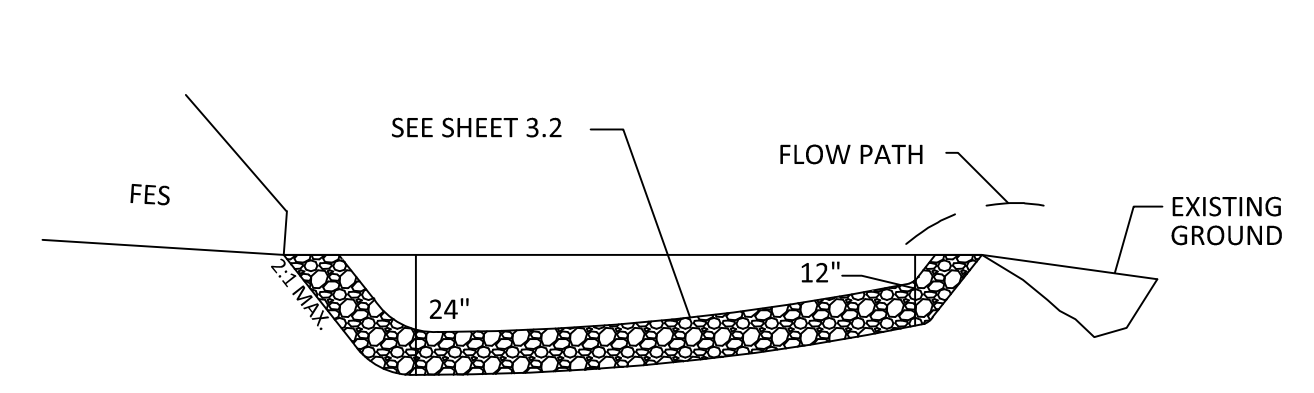
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- SHALLOW LAND (HERB.)**
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 - HC HIBISCUS COCCINEA SCARLET ROSE MALLOW 4-6" POT @ 3' SPACING
 - CG CHELONE GLABRA WHITE TURTLEHEAD 4-6" POT @ 3' SPACING
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 - PC PONTEDERIA CORDATA PECKEREL WEED 4-6" POT @ 3' SPACING
 - PV PELTANDRA VIRGINICA ARROW ARUM 4-6" POT @ 3' SPACING

LANDSCAPE PLAN:
SHALLOW LAND= 1,290 sf (USE 322 PLANTS FROM LIST ABOVE)
SHALLOW WATER= 1,233 sf (USE 308 PLANTS FROM LIST ABOVE)
USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF

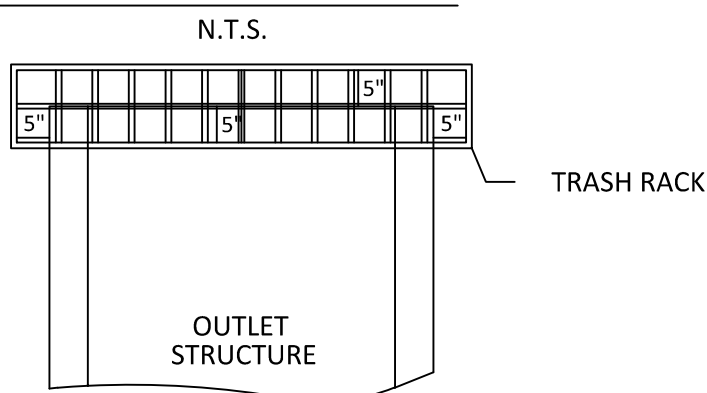


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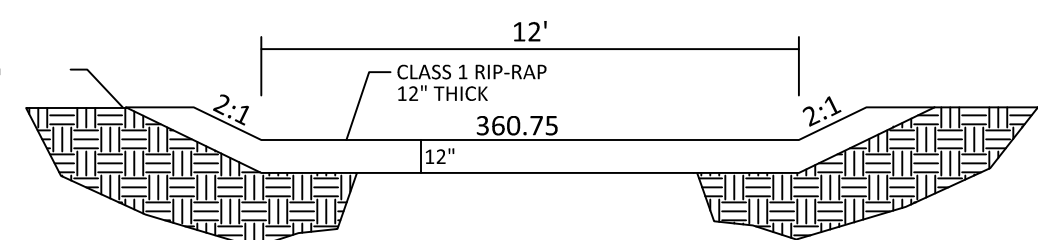
- POND NOTES**
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 2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.

2:\b\9900\Working\Drawings\Phase 3\Sheet Details\Sheet No. 4.4.11 Phase 3 SCM Details.dwg
March 11, 2025

TRASH RACK DETAIL



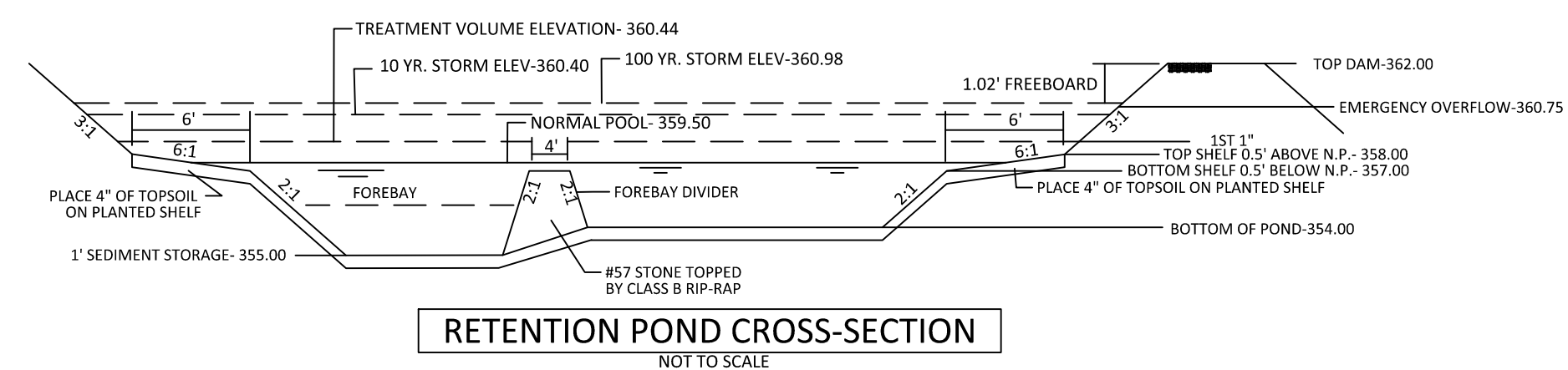
TOP OF DAM -364.00



EMERGENCY SPILLWAY CROSS-SECTION

TRASH RACK NOTES

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2. TRASH RACK SHALL BE FASTENED TO EACH SIDE OF THE STRUCTURE AT AT LEAST 2 POINTS. IT SHALL BE EASILY REMOVED FOR MAINTENANCE OR ENTRY INTO THE STRUCTURE.
3. TRASH RACK SHALL ACCOMMODATE VALVE SHAFT THROUGH AN OPENING.
4. TRASH RACK SHALL BE MADE OF DURABLE MATERIAL WHICH WILL NOT RUST OR DETERIORATE IN SUNLIGHT.
5. MAX. OPENING IN TRASH RACK SHALL BE 5"x5".
6. TOP OF TRASH RACK SHALL HAVE A GRID OF BARS (MAX. 6"x6").



RETENTION POND CROSS-SECTION

NOT TO SCALE

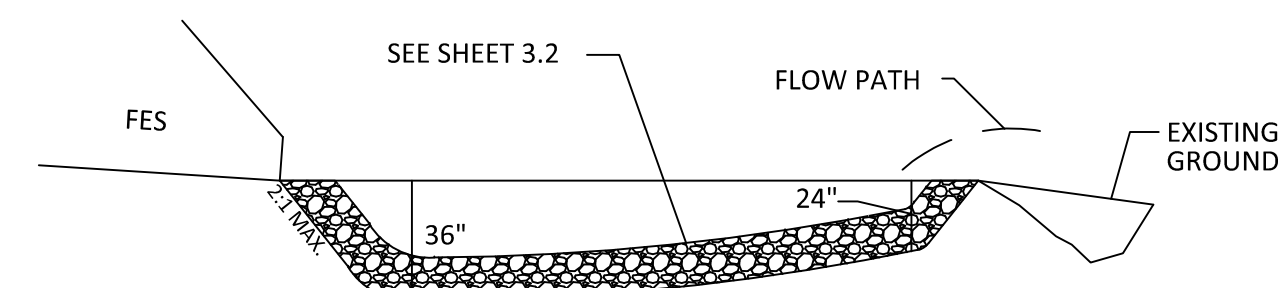
PLANT LIST LITTORAL SHELF PLANT SCHEDULE:

SHALLOW LAND (HERB.)	SHALLOW WATER (HERB.)
EF EUPATORIUM FISTULOSUM	JE JUNCUS EFFUSES
HC HIBISCUS COCCINEA	AS ACORUS SPP
CG CHELONE GLABRA	IV IRIS VERSICOLOR
LC LOBELIA CARDINALIS	PC PONTEDERIA CORDATA
JOE PYE WEED	PECKEREL WEED
SCARLET ROSE MALLOW	ARROW ARUM
WHITE TURTLEHEAD	
CARDINAL FLOWER	
4-6" POT @ 3' SPACING	4-6" POT @ 3' SPACING
4-6" POT @ 3' SPACING	4-6" POT @ 3' SPACING
4-6" POT @ 3' SPACING	4-6" POT @ 3' SPACING
4-6" POT @ 3' SPACING	4-6" POT @ 3' SPACING

LANDSCAPE PLAN:

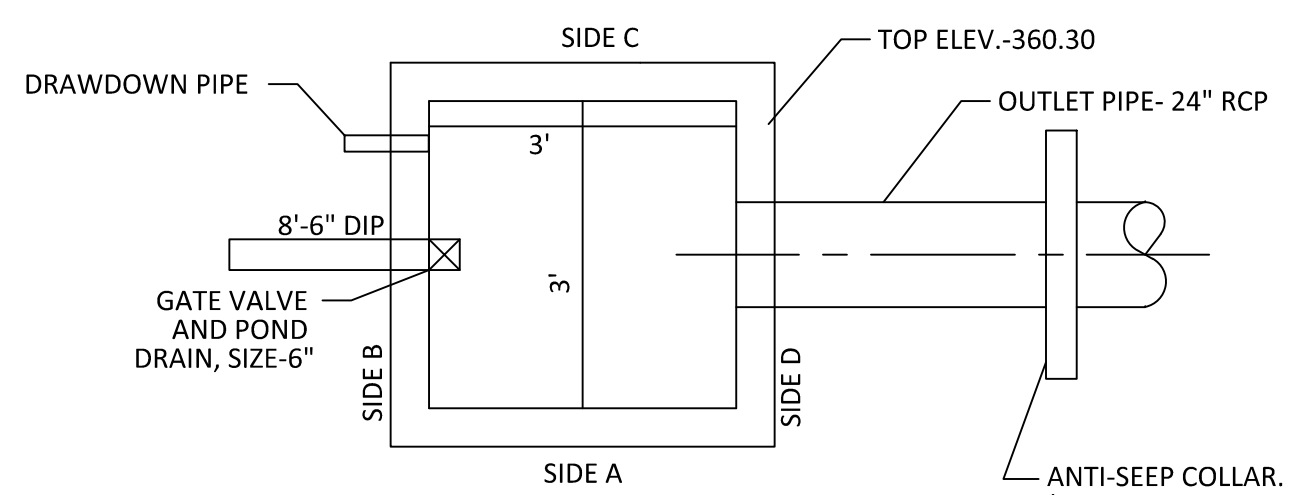
SHALLOW LAND= 1,008 sf (USE 252 PLANTS FROM LIST ABOVE)
SHALLOW WATER= 936 sf (USE 234 PLANTS FROM LIST ABOVE)
USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF



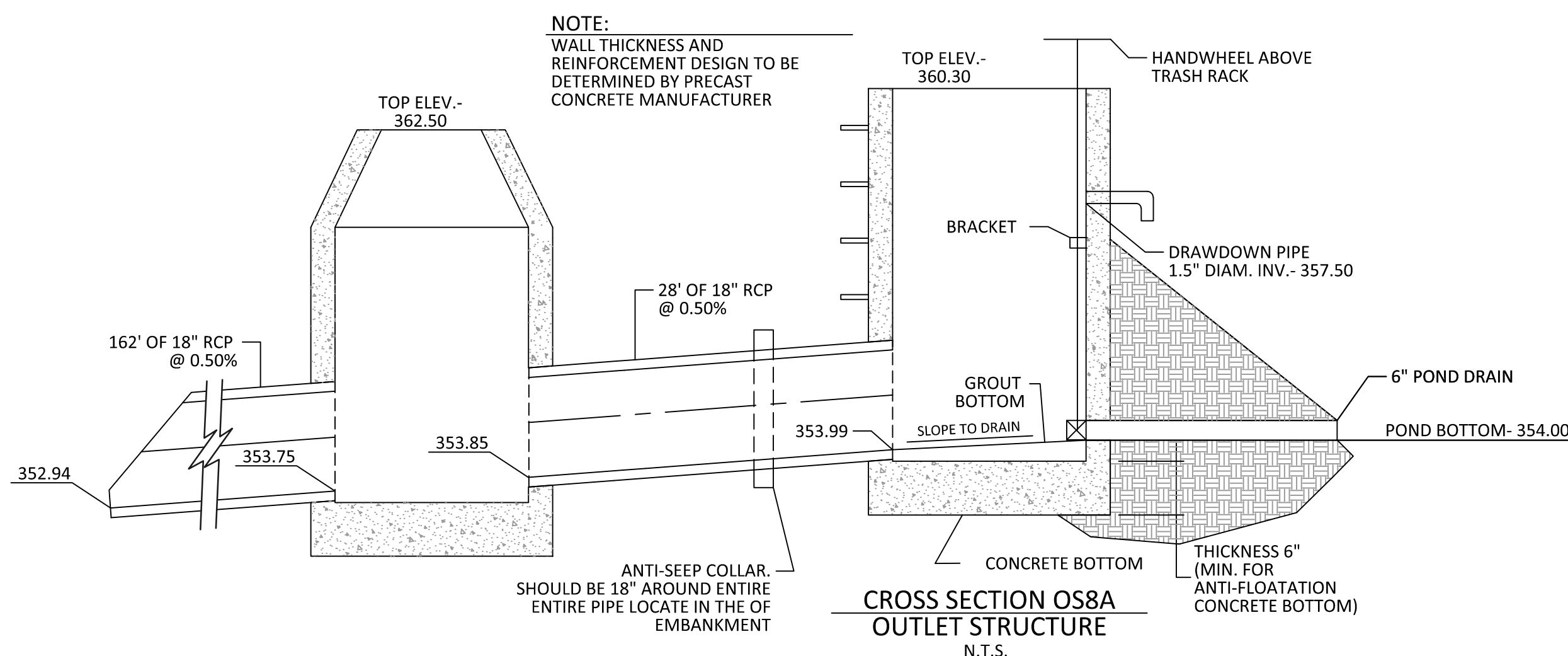
OS8A RIP-RAP OUTLET DETAIL

N.T.S.



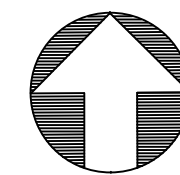
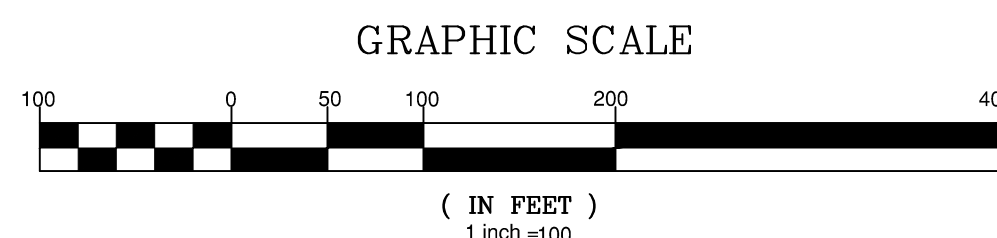
PLAN VIEW OS8A PRIMARY OUTLET STRUCTURE

N.T.S.



CROSS SECTION OS8A OUTLET STRUCTURE

N.T.S.

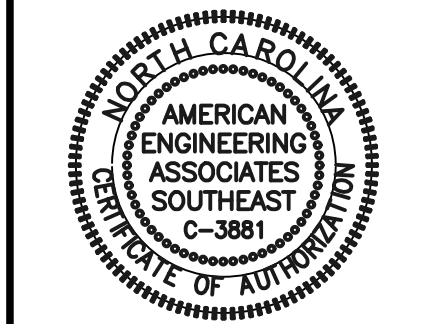
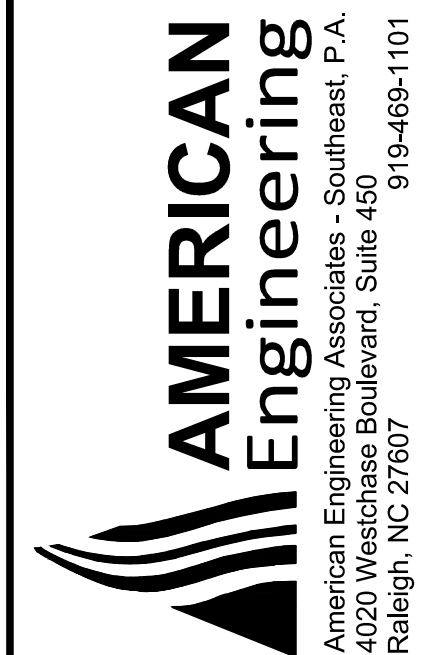
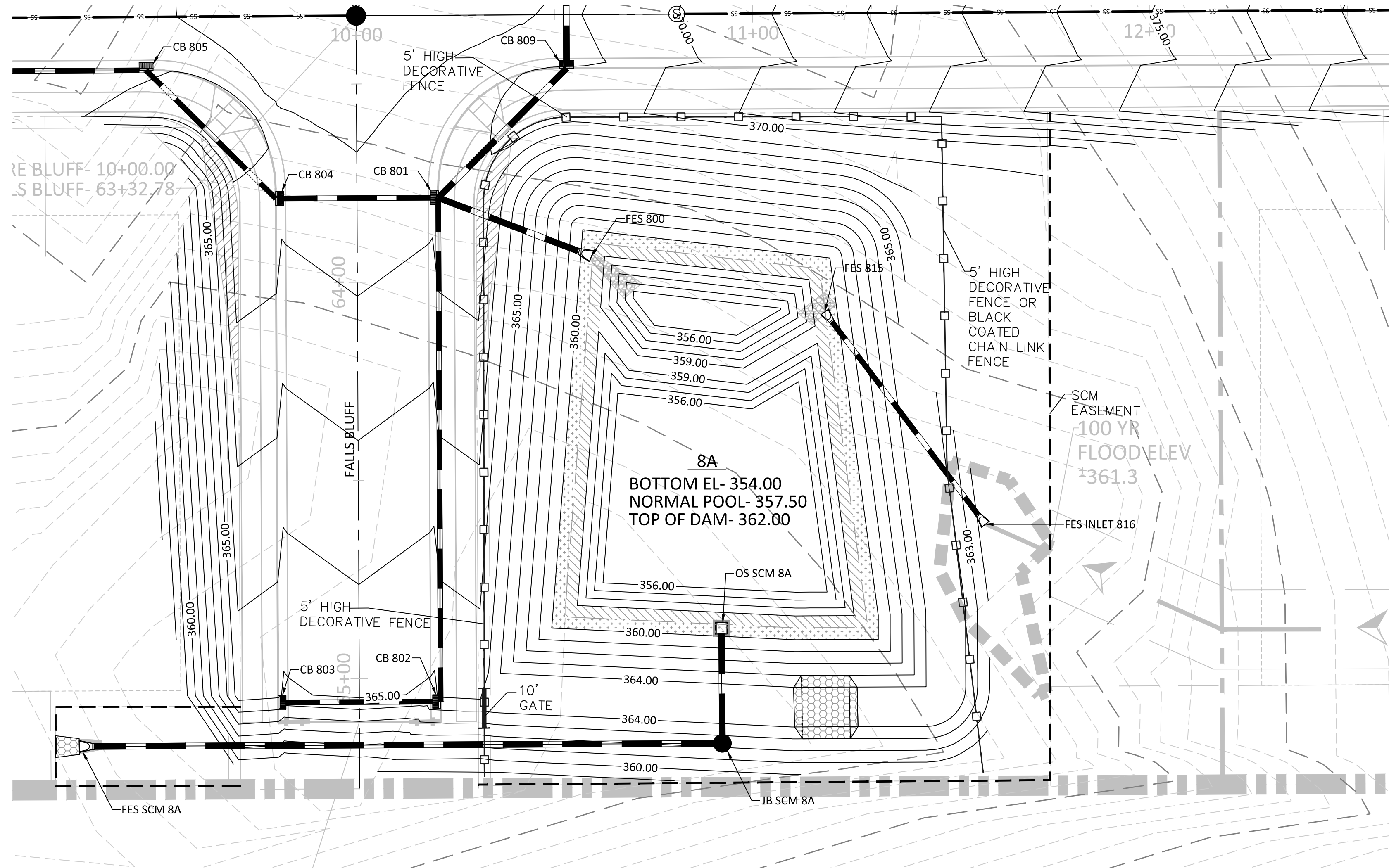


OUTLET STRUCTURE GENERAL NOTES

1. OUTLET STRUCTURE ELEVATIONS SHOWN ON THE DETAILS ON THIS SHEET ARE CRITICAL AND MUST BE WITHIN 0.02' OF THAT SHOWN. IF OUTLET STRUCTURES ARE PRE-CAST OFF-SITE, THE HOLE FOR THE OUTLET PIPE SHALL BE ENLARGED TO ALLOW UP TO 0.3' OF VERTICAL MOVEMENT. WHEN INSTALLED, THE EXCESS OPENING SHALL BE FILLED WITH GROUT.
2. THE OUTLET STRUCTURE SHALL HAVE A TRASH RACK COVERING THE OPENINGS. SUCH TRASH RACK SHALL BE 6" OUT FROM THE OPENING AND SHALL HAVE A MAXIMUM OPENING OF 6"x6". IT SHALL BE SECURELY FASTENED TO THE STRUCTURE BUT REMOVEABLE FOR MAINTENANCE.
3. OUTLET PIPES SHALL HAVE AN ANTI-SEEP COLLAR OF CONCRETE LOCATED APPROXIMATELY UNDER THE MIDDLE OF THE DAM IN WHICH IT IS LOCATED. IT SHALL CONSIST OF CONCRETE POURED AROUND THE PIPE IN A VERTICAL DIRECTION. THE COLLAR SHALL BE A SQUARE 8" THICK AND SHALL EXTEND 18" BEYOND THE OUTSIDE OF THE PIPE IN EACH DIRECTION.
4. TREATMENT OUTLET PIPE SHALL NOT BE PVC BUT OTHER MATERIAL SUCH AS GSP WHICH IS NOT SUBJECT TO DETERIORATION IN SUNLIGHT.

POND NOTES

1. SEE SHEET 3.0 FOR BMP CONVERSION SEQUENCE.
2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.



NO.	DATE	REVISION
1	7/27/2021	ISSUE FROM TOWN OF ROLESVILLE CONSULTANT, TAKE CITY AND COUNTY OF WAKE COUNTY
2	9/4/2024	TOWN OF ROLESVILLE CONSULTANT COMMENTS
3	10/07/2024	CONSTRUCTION DRAWING COMMENT RESPONSES
4	3/17/2025	CONSTRUCTION DRAWING COMMENT RESPONSES

STIPULATION FOR REUSE

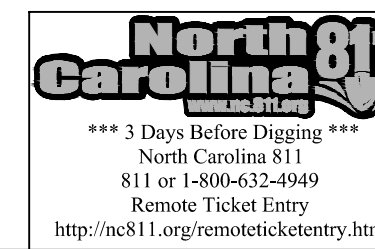
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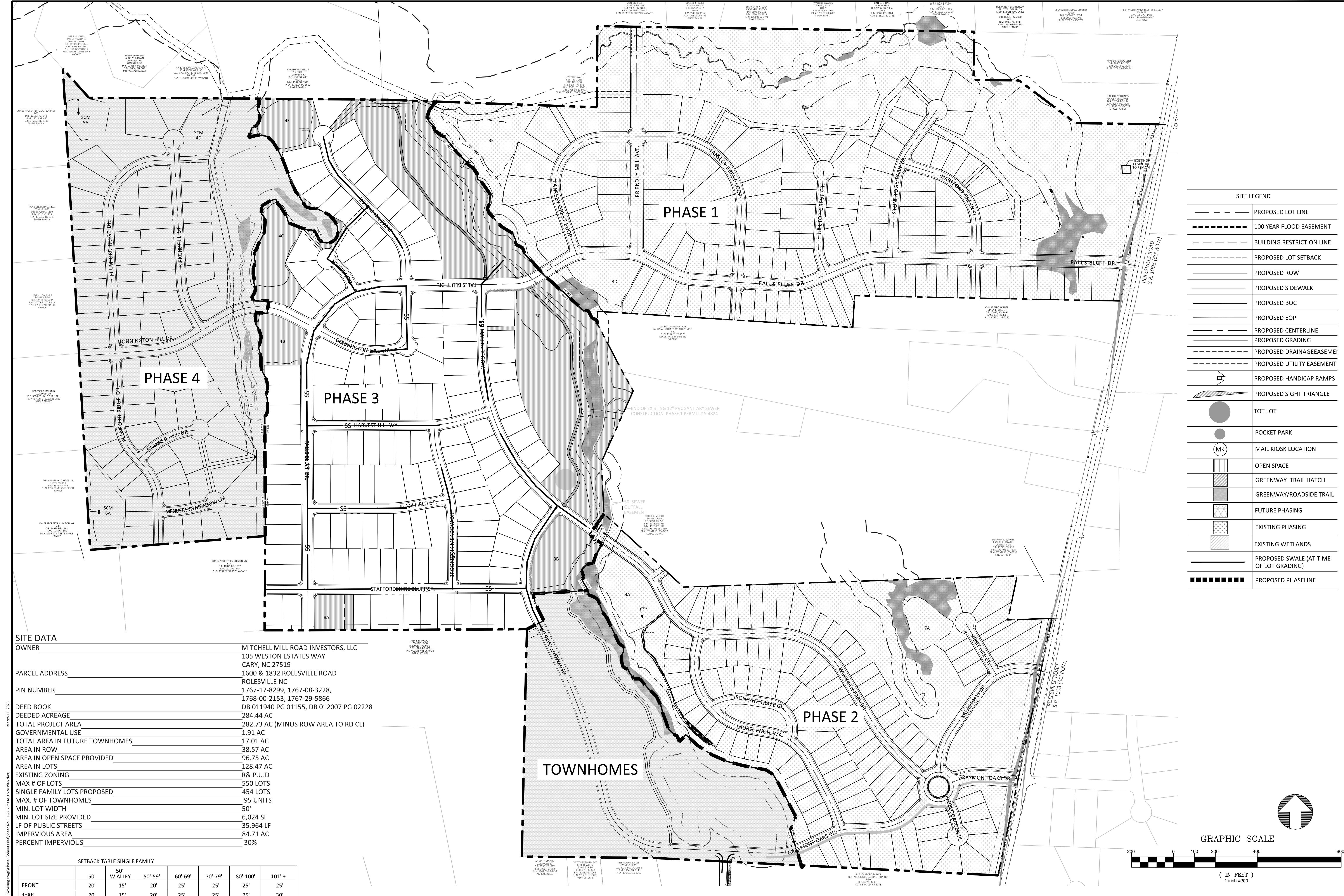
KALAS FALLS PHASE 3
1832 ROLESVILLE ROAD
WAKE COUNTY, NC

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

SHEET TITLE:
SCM 8A DETAILS

SHEET NO.:
4.11





SITE LEGEND

	PROPOSED LOT LINE
	100 YEAR FLOOD EASEMENT
	BUILDING RESTRICTION LINE
	PROPOSED LOT SETBACK
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED GRADING
	PROPOSED DRAINAGE EASEMENT
	PROPOSED UTILITY EASEMENT
	PROPOSED HANDICAP RAMPS
	PROPOSED SIGHT TRIANGLE
	TOT LOT
	POCKET PARK
	MAIL KIOSK LOCATION
	OPEN SPACE
	GREENWAY TRAIL HATCH
	GREENWAY/ROADSIDE TRAIL
	FUTURE PHASING
	EXISTING PHASING
	EXISTING WETLANDS
	PROPOSED SWALE (AT TIME OF LOT GRADING)
	PROPOSED PHASELINE

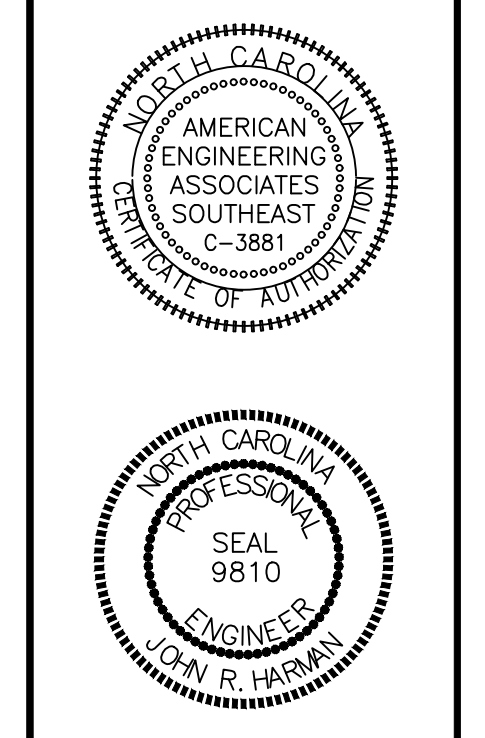
SITE DATA

OWNER	MITCHELL MILL ROAD INVESTORS, LLC
PARCEL ADDRESS	105 WESTON ESTATES WAY CARY, NC 27519
PIN NUMBER	1600 & 1832 ROLESVILLE ROAD ROLESVILLE NC
DEED BOOK	1767-17-8299, 1767-08-3228, 1768-00-2153, 1767-29-5866
DEEDED ACREAGE	DB 011940 PG 01155, DB 012007 PG 02228
TOTAL PROJECT AREA	284.44 AC
GOVERNMENTAL USE	282.73 AC (MINUS ROW AREA TO RD CL)
TOTAL AREA IN FUTURE TOWNHOMES	1.91 AC
AREA IN ROW	17.01 AC
AREA IN OPEN SPACE PROVIDED	38.57 AC
AREA IN LOTS	96.75 AC
EXISTING ZONING	128.47 AC
R& P.U.D	88 & P.U.D
MAX # OF LOTS	550 LOTS
SINGLE FAMILY LOTS PROPOSED	454 LOTS
MAX. # OF TOWNHOMES	95 UNITS
MIN. LOT WIDTH	50'
MIN. LOT SIZE PROVIDED	6,024 SF
LF OF PUBLIC STREETS	35,964 LF
IMPERVIOUS AREA	84.71 AC
PERCENT IMPERVIOUS	30%

SETBACK TABLE SINGLE FAMILY

	50'	50'-59'	60'-69'	70'-79'	80'-100'	101' +
FRONT	20'	15'	20'	25'	25'	25'
REAR	20'	15'	20'	25'	25'	30'
SIDE	**	**	**	*	10'	12'
CORNER SIDE	10'	10'	10'	10'	15'	18'
MIN. LOT SIZE	6,000	6,000	6,000	6,600	8,400	14,000

* AGGREGATE 12', MIN. 5'
** MIN. 3' AGGREGATE 10'



REVISIONS

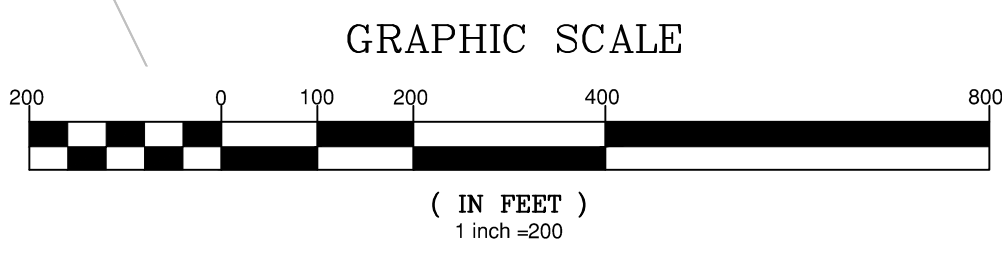
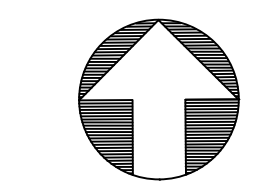
NO.	DATE	DESCRIPTION
1	7/27/2024	REVISED FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH
2	9/4/2024	TOWN OF ROLESVILLE CONSULTANT COMMENTS
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4	10/27/2024	CONSTRUCTION DRAWING COMMENT RESPONSES

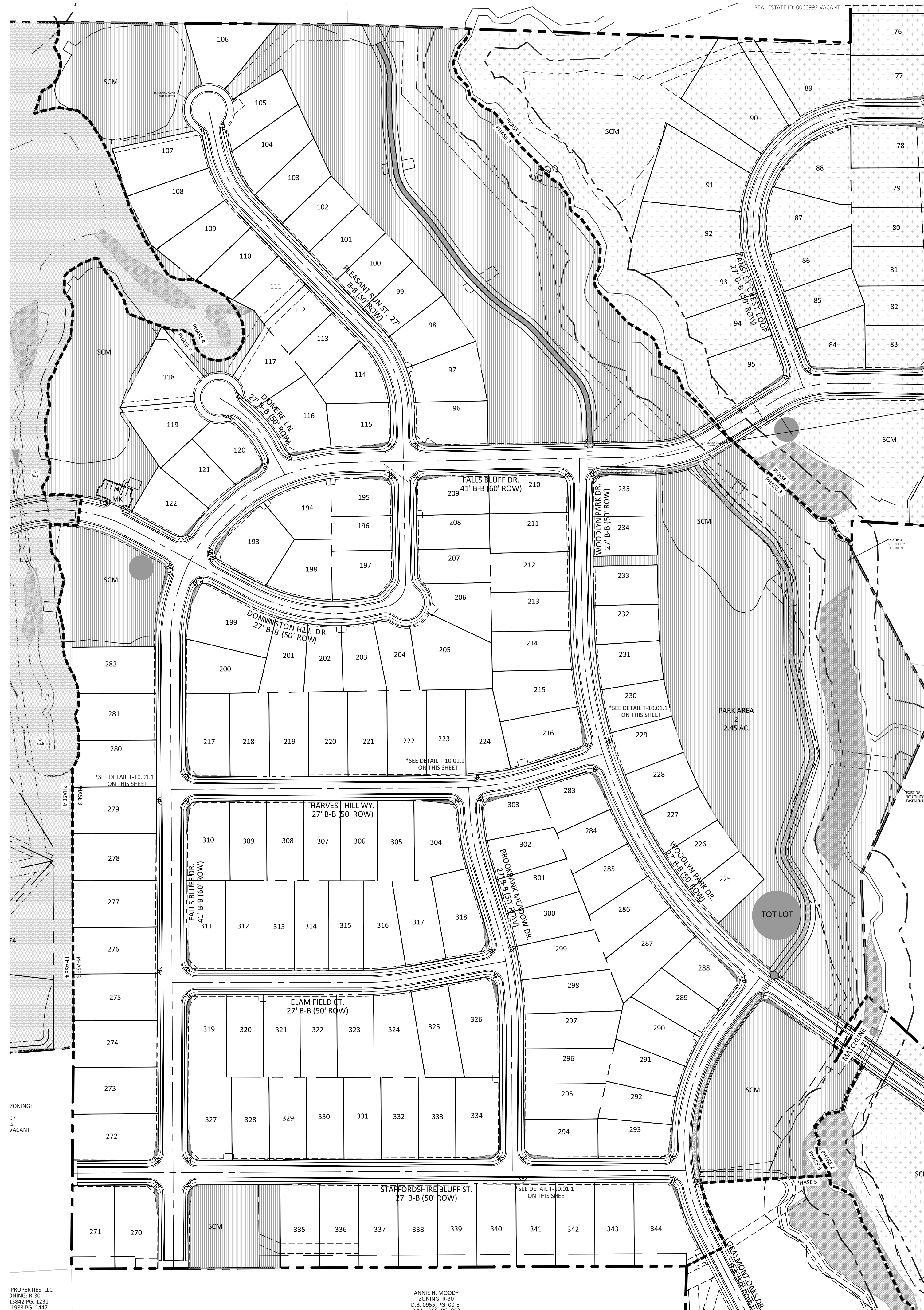
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KALAS FALLS PHASE 3
1832 ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 9900
CHECKED BY: BH/JH
DRAWN BY: SMM/ALL/ESA/JDH
DATE: NOV 1, 2024
SHEET TITLE: OVERALL SITE PLAN
SHEET NO.: 5.0

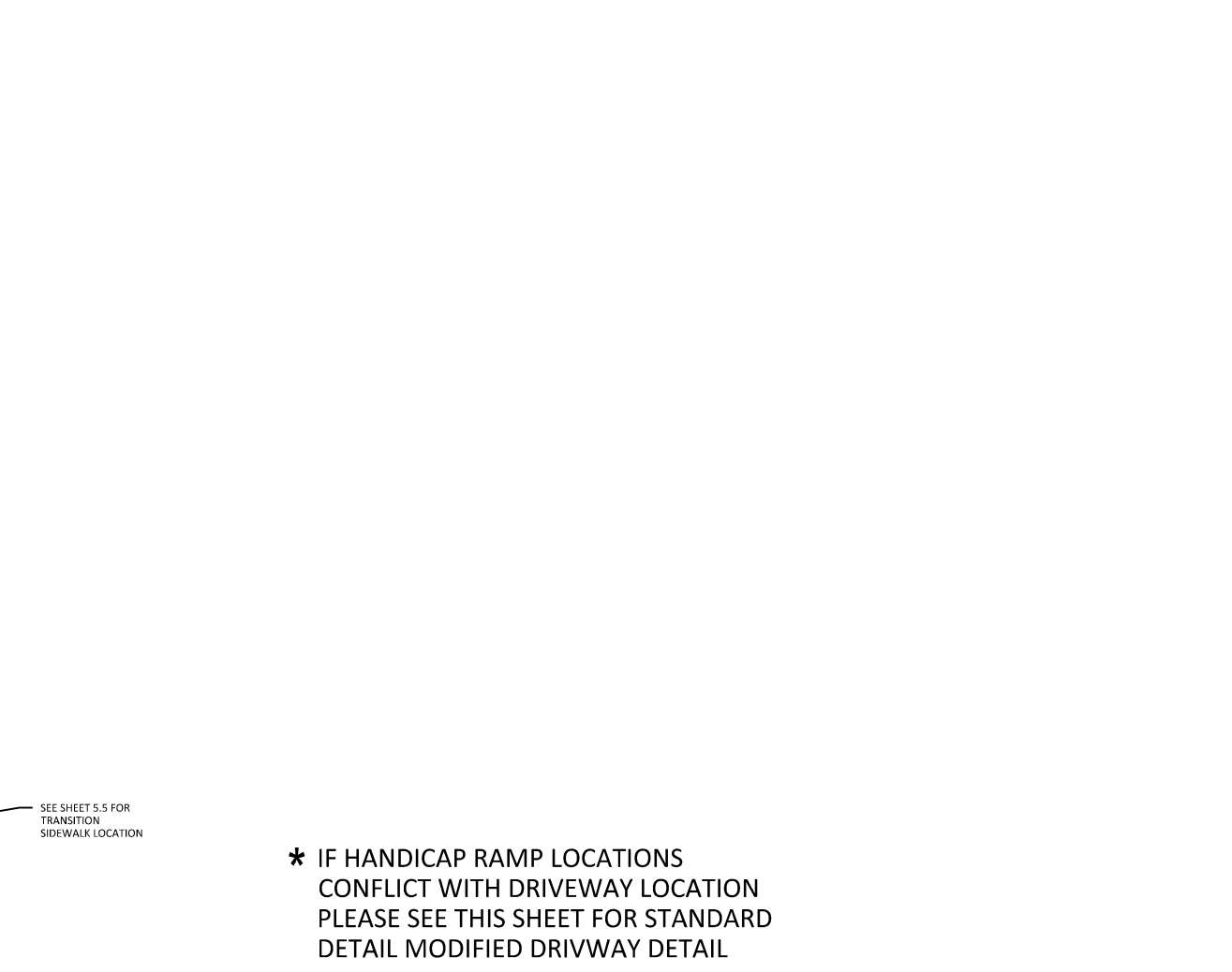




SETBACK TABLE SINGLE FAMILY

	50'	50' W ALLEY	50'-59'	60'-69'	70'-79'	80'-100'	101' +
FRONT	20'	15'	20'	25'	25'	25'	25'
REAR	20'	15'	20'	25'	25'	25'	30'
SIDE	**	**	**	*	*	10'	12'
CORNER SIDE	10'	10'	10'	10'	10'	15'	18'

MIN. LOT SIZE 6,000 6,000 6,000 6,600 8,400 10,400 14,000
 * AGGREGATE 12', MIN. 5'
 ** MIN. 3' AGGREGATE 10'



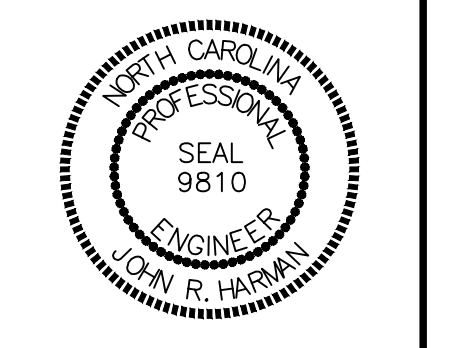
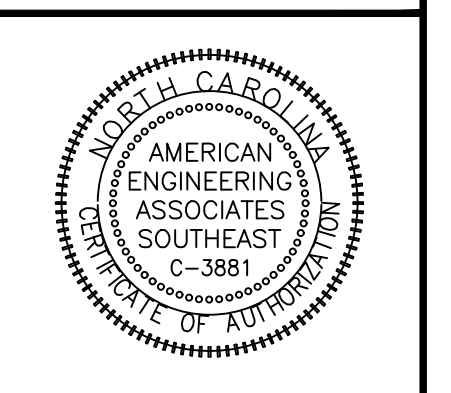
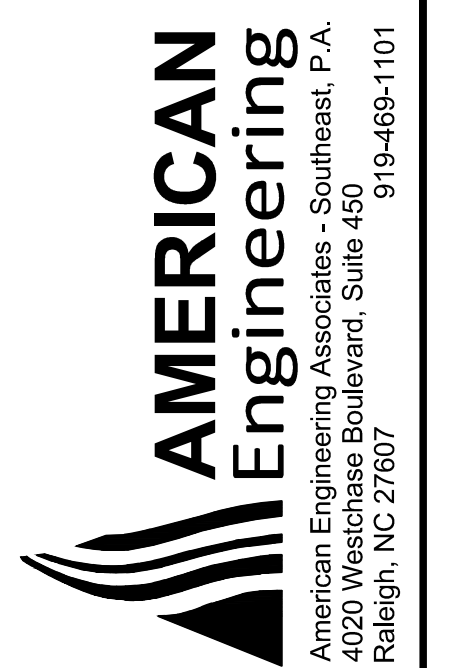
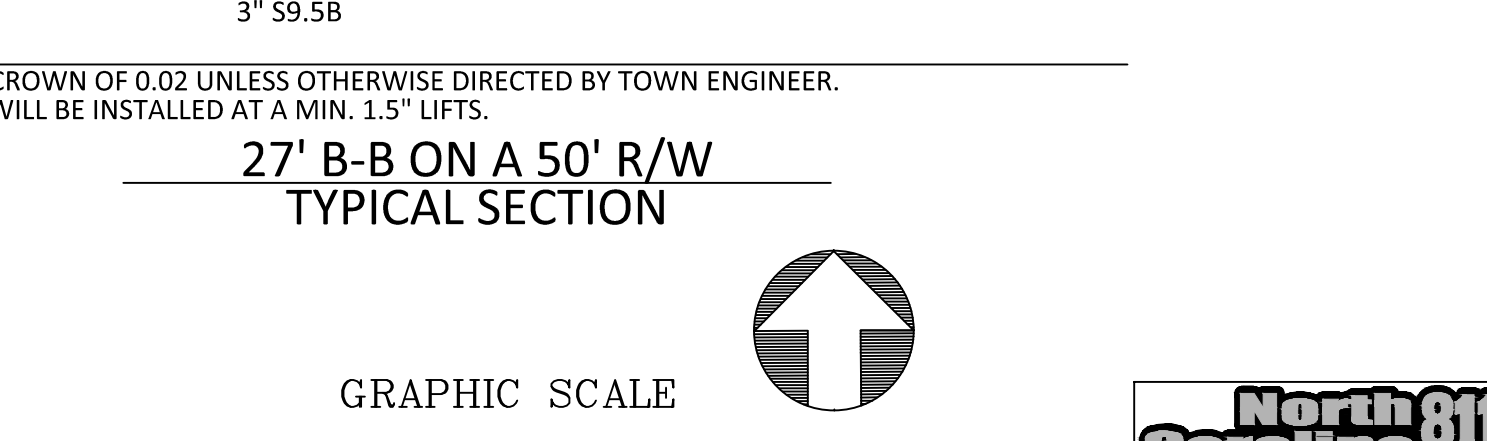
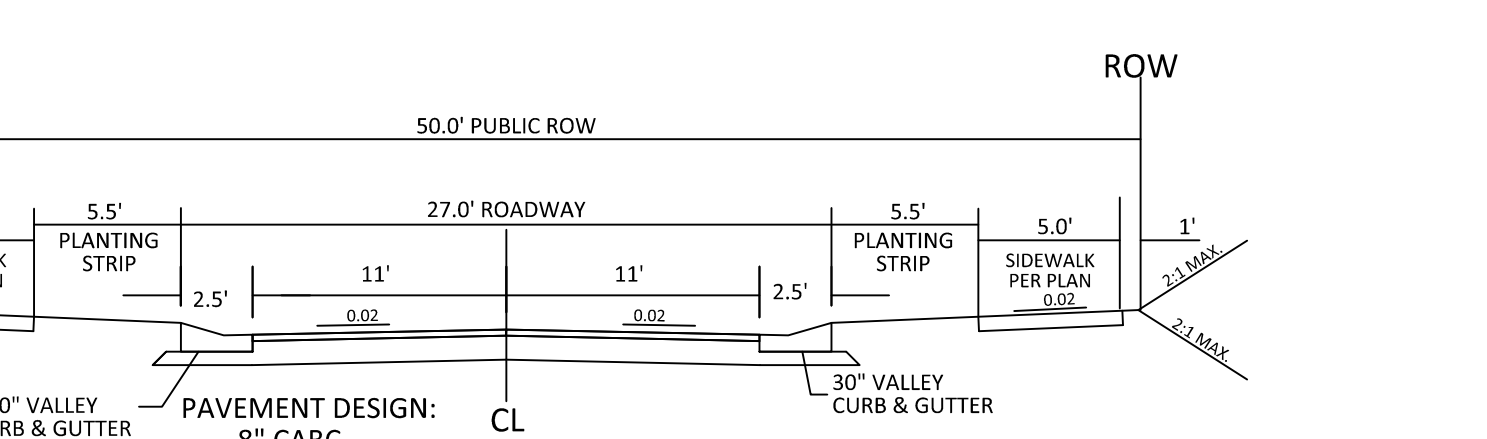
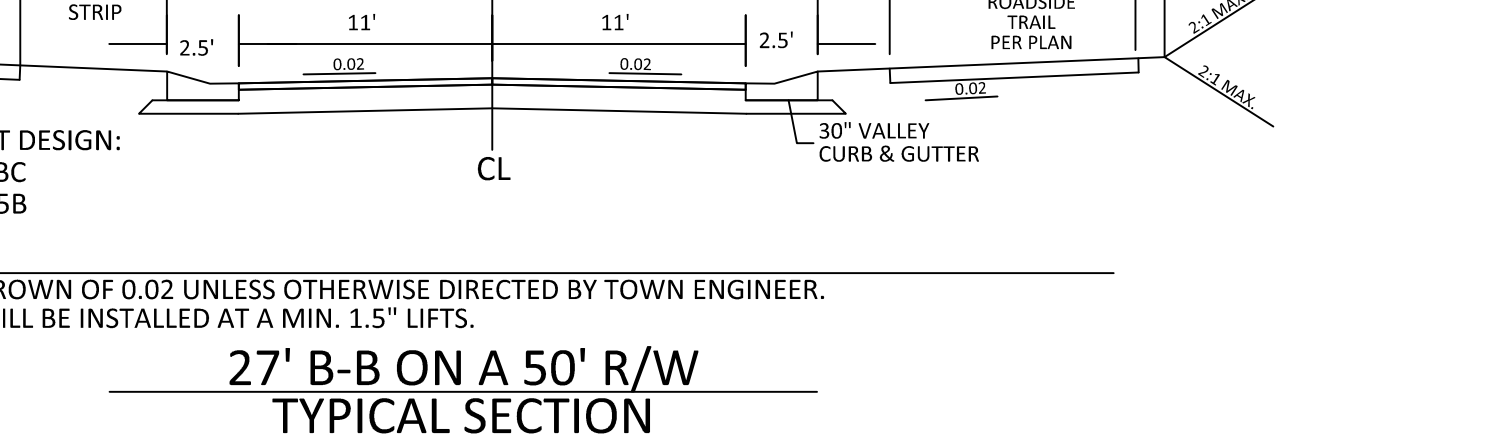
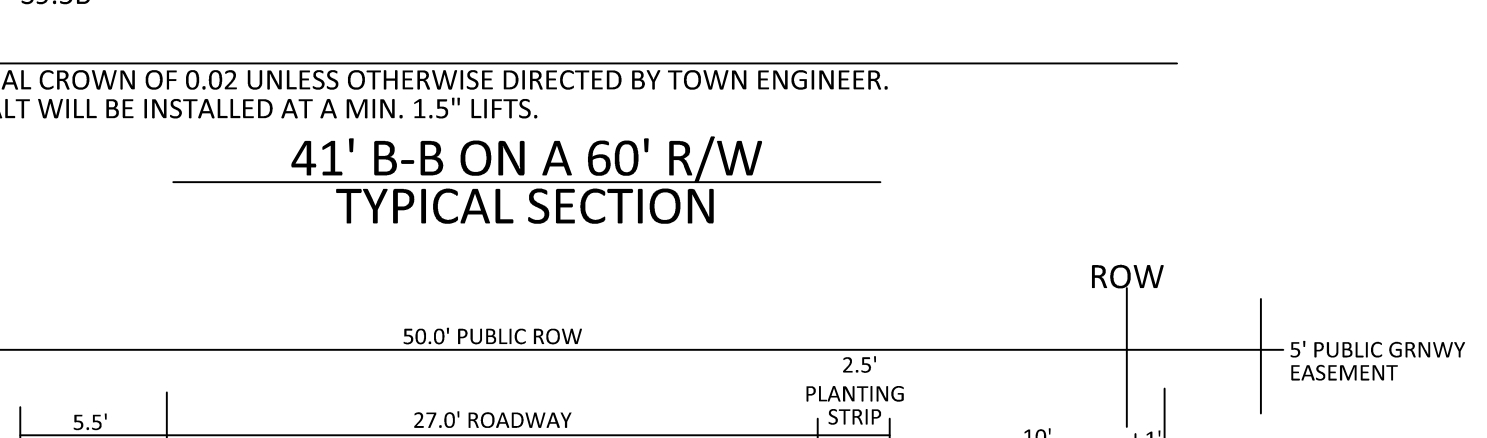
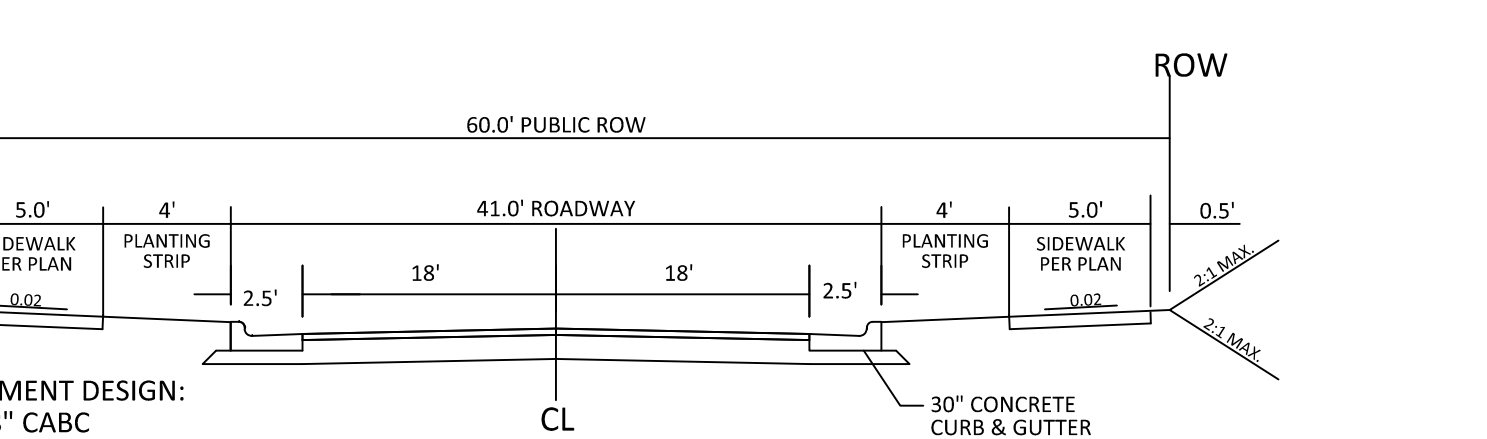
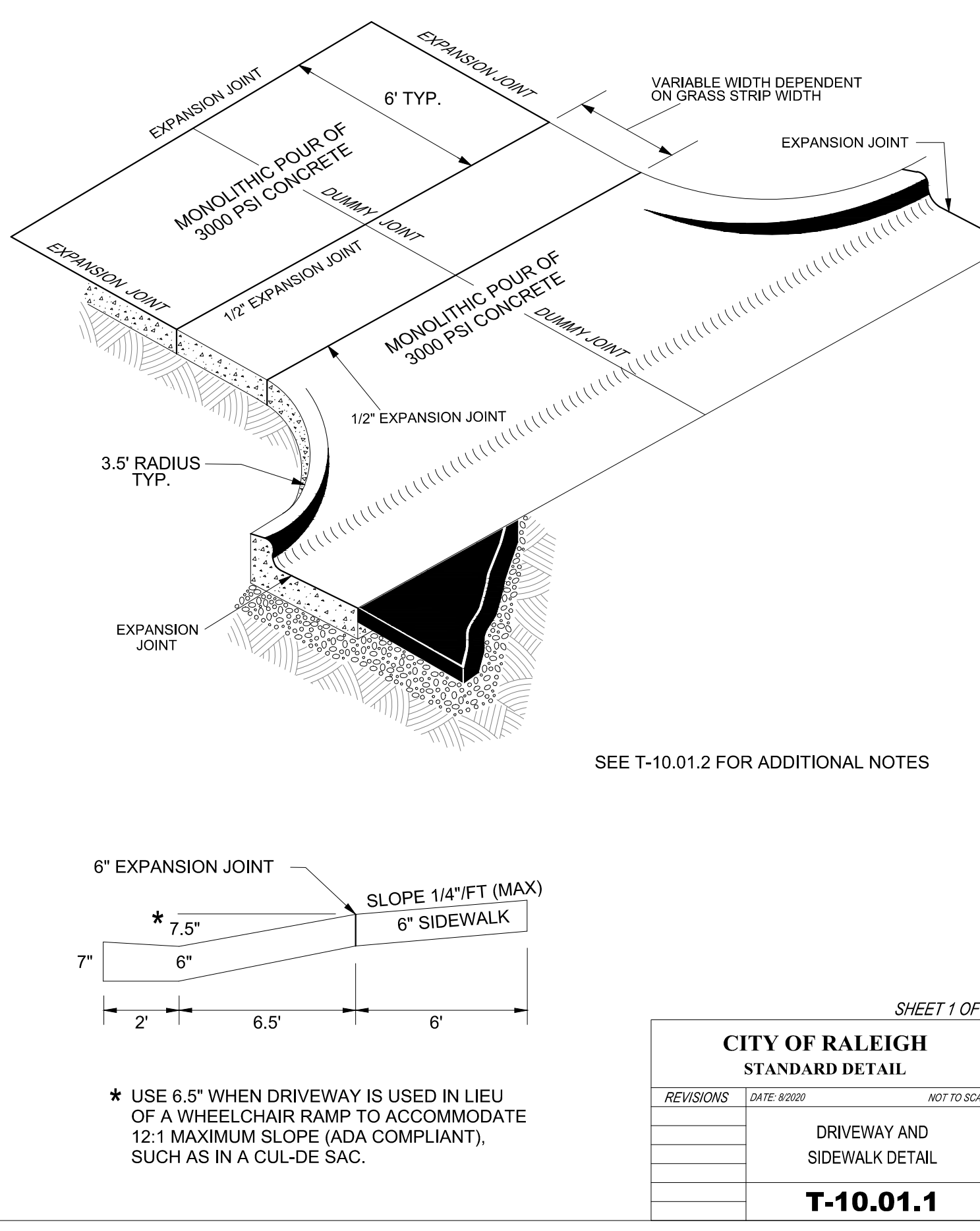
PHASE 3 SITE DATA

TOTAL AREA IN LOTS	18,841,525 SF / 43.25 AC
TOTAL NUMBER OF LOTS	145
AVERAGE LOT SIZE	13,000 SF
MIN. LOT SIZE	8,686 SF
MAX. LOT SIZE	20,160 SF
PHASE 3 AREA IN OPEN SPACE PROVIDED	24.36 AC
PHASE 3 TOTAL DISTURBED AREA	70.55 AC

- GENERAL NOTE:
- SIGHT DISTANCE TRIANGLES ARE 10'x70'. WHERE SIGHT LINES ENCOACH ONTO A PRIVATE LOT A SIGHT EASEMENT IS REQUIRED.
 - BACK OF CURB RADIUS AT INTERSECTIONS-
 RESIDENTIAL-RESIDENTIAL- 28'
 RESIDENTIAL-COLLECTOR- 30'
 COLLECTOR-COLLECTOR- 30'
 ENTRANCE AT CUL-DE-SAC- 32.5
 ENTRY ROADS-ROLESVILLE RD.- 35'

SITE LEGEND

	PROPOSED LOT LINE
	100 YEAR FLOOD EASEMENT
	BUILDING RESTRICTION LINE
	PROPOSED LOT SETBACK
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED GRADING
	PROPOSED DRAINAGE/EASEMENT
	PROPOSED UTILITY EASEMENT
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	MAIL KIOSK LOCATION
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	GREENWAY TRAIL HATCH
	GREENWAY/ROADSIDE TRAIL
	FUTURE PHASING
	EXISTING PHASING
	EXISTING WETLANDS
	PROPOSED SWALE (AT TIME OF LOT GRADING)
	PROPOSED PHASELINE



REVISIONS

NO.	DATE	DESCRIPTION
1	7/2/2024	REVISED FROM TOWN OF ROLESVILLE CONSULTANT, TAKE CORNER AND CITY OF RALEIGH CONSULTANT COMMENTS.
2	9/4/2024	TOWN OF ROLESVILLE CONSULTANT COMMENTS.
3	10/7/2024	CONSTRUCTION DRAWING COMMENT RESPONSES.
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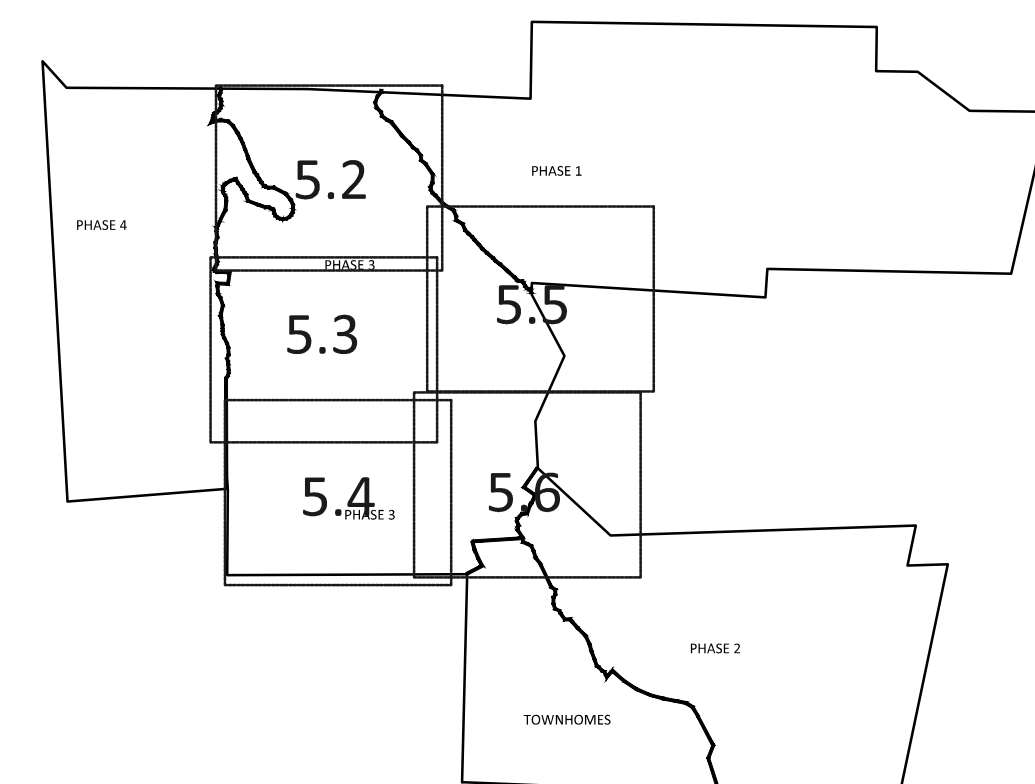
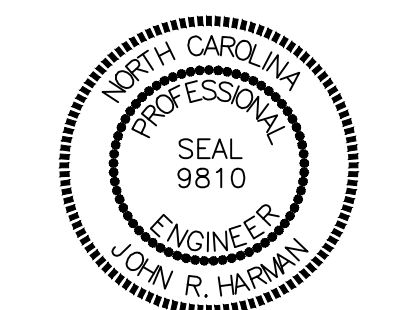
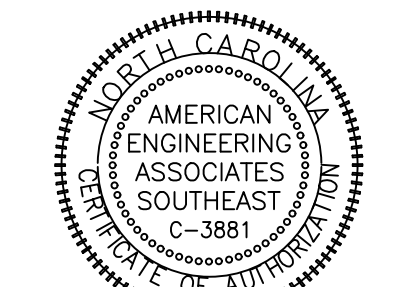
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KALAS FALLS
 PHASE 3
 1832 ROLESVILLE ROAD
 WAKE COUNTY, NC

JOB NUMBER: 9900
 CHECKED BY: BH/JH
 DRAWN BY: SM/MAL/ES/AH/DH
 DATE: NOV 1, 2024
 SHEET TITLE:
**PHASE 3
 SITE PLAN**
 SHEET NO.:
5.1

March 11, 2025
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 PROPERTIES, LLC
 DRAWING: R-30
 13842 PG. 1231
 1983 PG. 1447
 ANNIE H. MOODY
 ZONING: R-30
 D.B. 0925, PG. 02-E
 1983 PG. 1447

JONATHAN V. GILLIS
 ZONING: R-30
 D.B. 4974, PG. 38
 TRACT 2 B.M. 1987, PG. 1527
 PIN NO. 1758.04-90-8610
 REAL ESTATE ID: 0163469



GRAPHIC SCALE 1"=100'

SETBACK TABLE SINGLE FAMILY

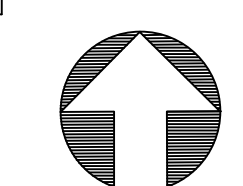
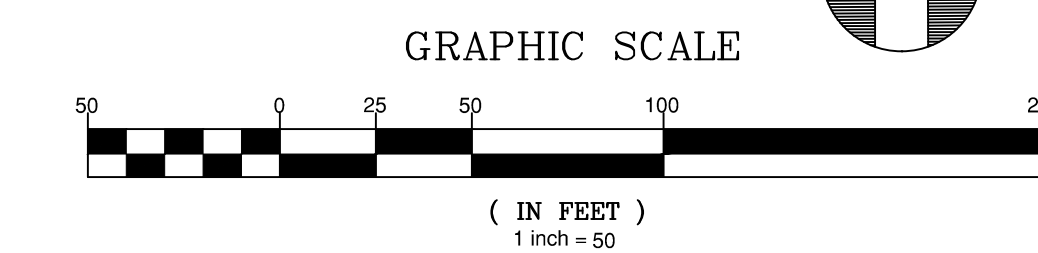
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SIDE	**	**	**	*	*	10'	12'
CORNER SIDE	10'	10'	10'	10'	10'	15'	18'
MIN. LOT SIZE	6,000	6,000	6,000	6,600	8,400	10,400	14,000

* AGGREGATE 12', MIN. 5'
 ** MIN. 3' AGGREGATE 10'

GENERAL NOTE:

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2. BACK OF CURB RADIUS AT INTERSECTIONS-
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 ENTRANCE AT CUL-DE-SAC- 32.5
 ENTRY ROADS-ROLESVILLE RD.- 35'

SITE LEGEND	
	PROPOSED LOT LINE
	100 YEAR FLOOD EASEMENT
	BUILDING RESTRICTION LINE
	PROPOSED LOT SETBACK
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	PROPOSED SWALE (AT TIME OF LOT GRADING)
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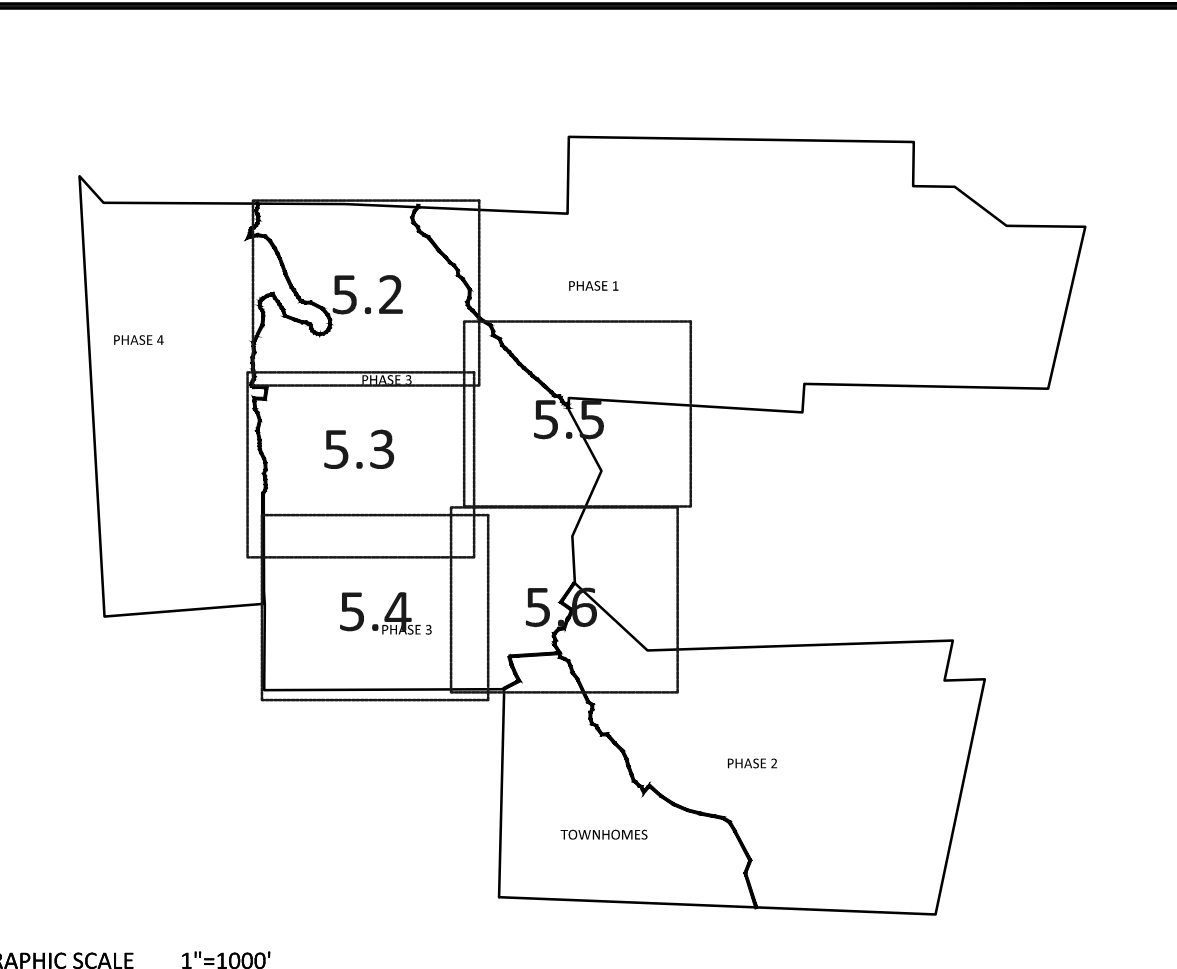
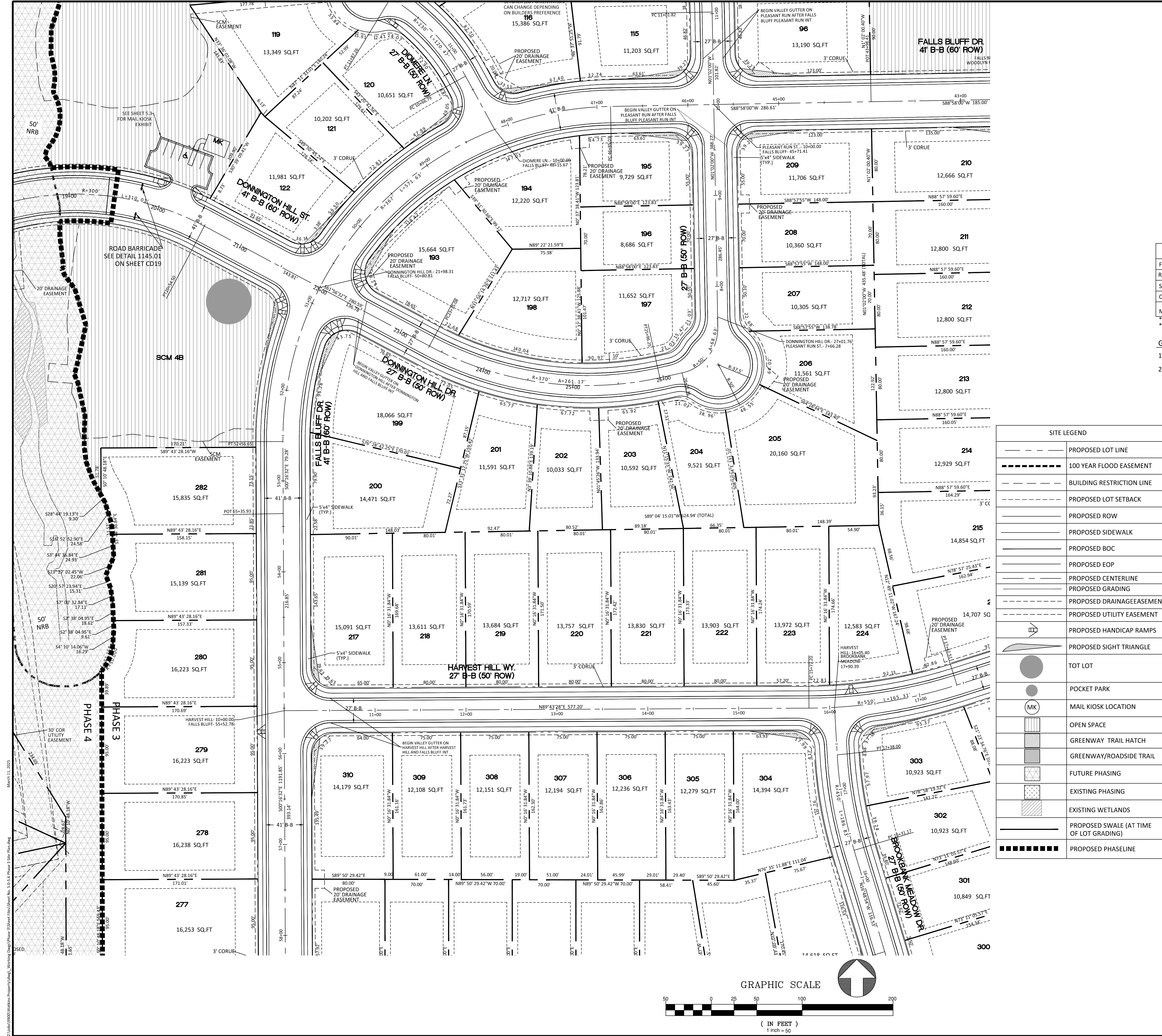
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**KALAS FALLS
 PHASE 3
 1832 ROLESVILLE ROAD
 WAKE COUNTY, NC**

JOB NUMBER:	9900
CHECKED BY:	BH/JH
DRAWN BY:	SM/ML/ES/AH/DH
DATE:	NOV 1, 2024
SHEET TITLE:	PHASE 3 SITE PLAN
SHEET NO.:	5.2



March 11, 2025
 Z:\Arch\0000\Workshop\Phase3\Working\Drawings\Phase3\Sheet No. 5.2 of 5 Phase 3 Site Plan.dwg



GRAPHIC SCALE 1"=100'

SETBACK TABLE SINGLE FAMILY

	50'	50'-59'	60'-69'	70'-79'	80'-100'	101'+
FRONT	20'	15'	20'	25'	25'	25'
REAR	20'	15'	20'	25'	25'	30'
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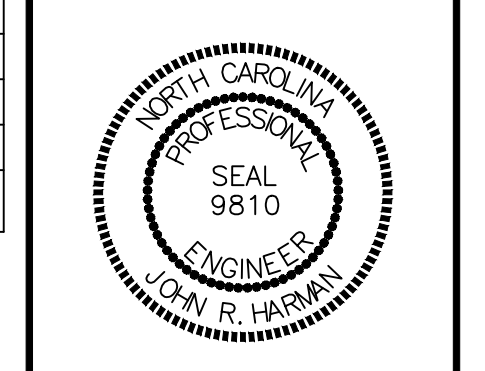
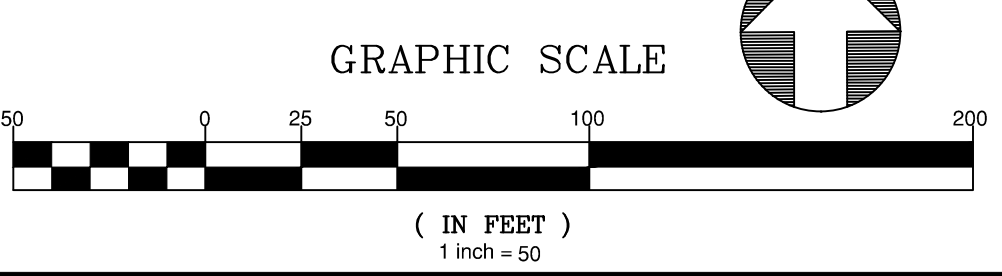
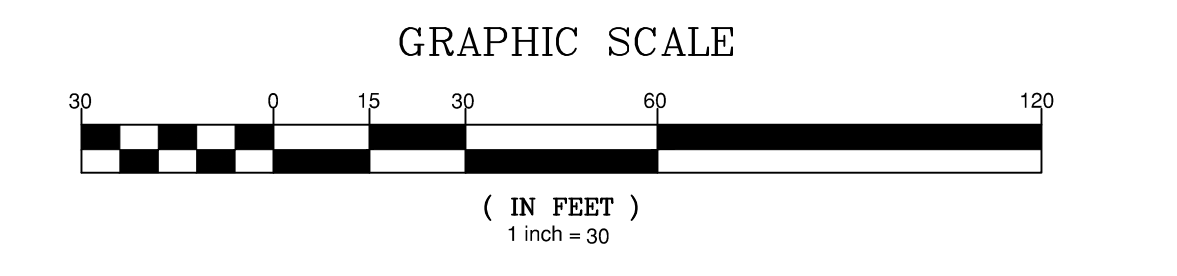
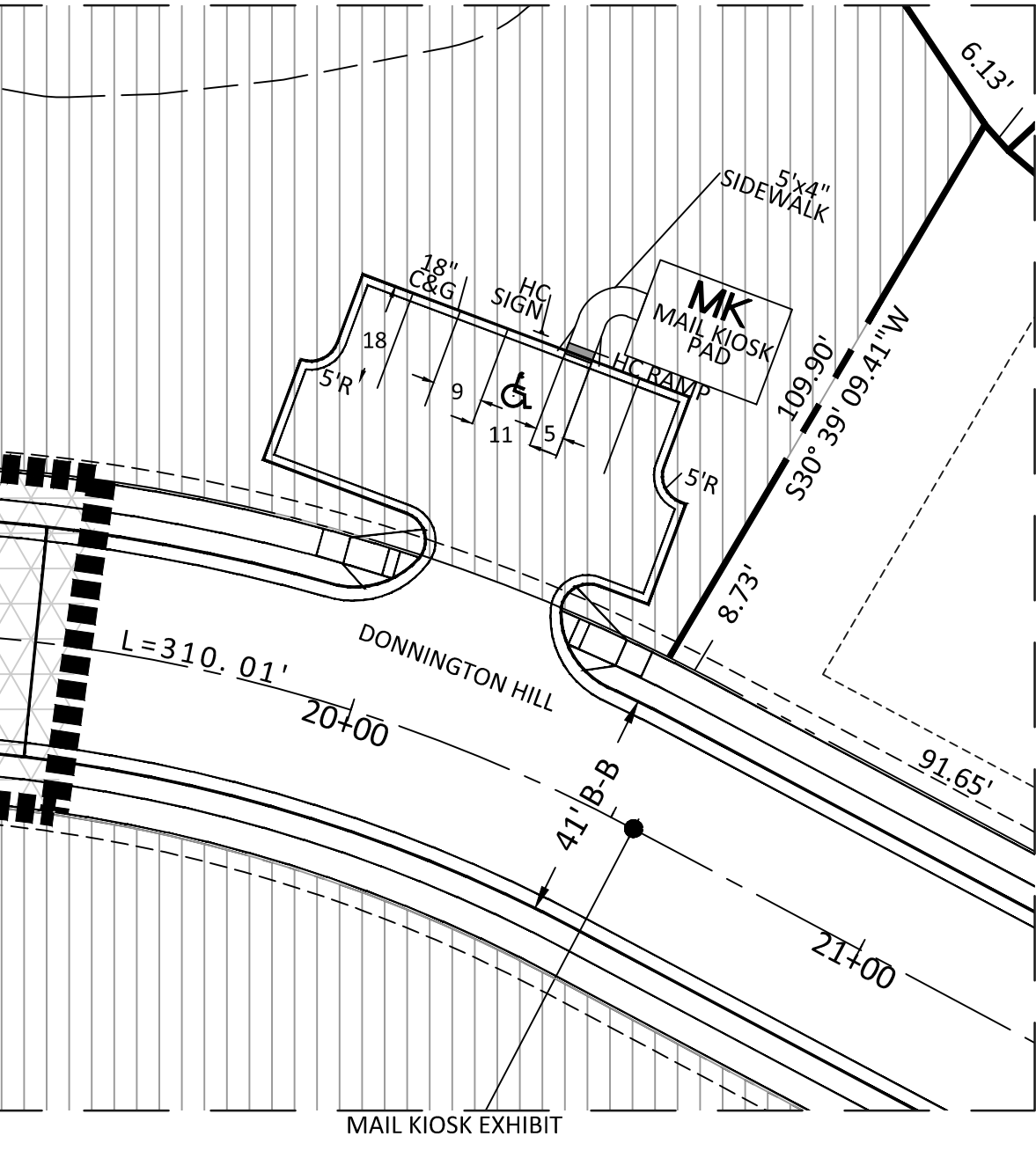
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** MIN. 3' AGGREGATE 10'

GENERAL NOTE:

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SITE LEGEND

- PROPOSED LOT LINE
- - - - 100 YEAR FLOOD EASEMENT
- - - - BUILDING RESTRICTION LINE
- - - - PROPOSED LOT SETBACK
- - - - PROPOSED ROW
- - - - PROPOSED SIDEWALK
- - - - PROPOSED BOC
- - - - PROPOSED EOP
- - - - PROPOSED CENTERLINE
- - - - PROPOSED GRADING
- - - - PROPOSED DRAINAGE/EASEMENT
- - - - PROPOSED UTILITY EASEMENT
- ▭ PROPOSED HANDICAP RAMPS
- ▭ PROPOSED SIGHT TRIANGLE
- TOT LOT
- POCKET PARK
- MK MAIL KIOSK LOCATION
- OPEN SPACE
- ▨ GREENWAY TRAIL HATCH
- ▨ GREENWAY/ROADSIDE TRAIL
- ▨ FUTURE PHASING
- ▨ EXISTING PHASING
- ▨ EXISTING WETLANDS
- - - - PROPOSED SWALE (AT TIME OF LOT GRADING)
- ▬ PROPOSED PHASELINE



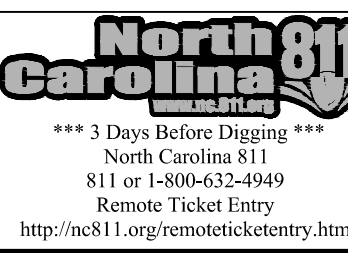
NO.	DATE	REVISION
1	7/21/2024	ISSUED FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH
2	9/4/2024	TOWN OF ROLESVILLE CONSULTANT COMMENTS
3	10/07/2024	CONSTRUCTION DRAWING COMMENT RESPONSES
4	3/7/2025	CONSTRUCTION DRAWING COMMENT RESPONSES

STIPULATION FOR REUSE

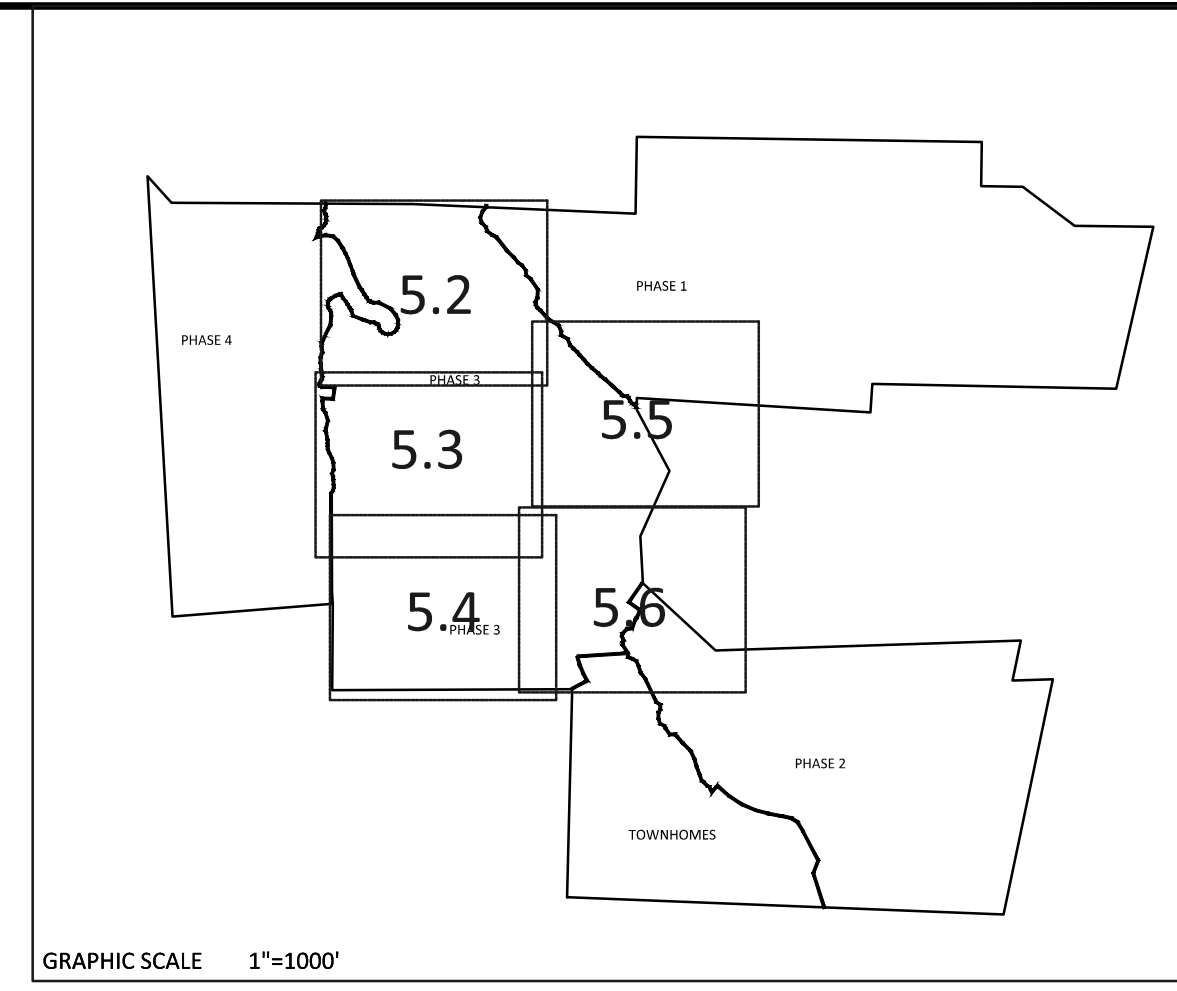
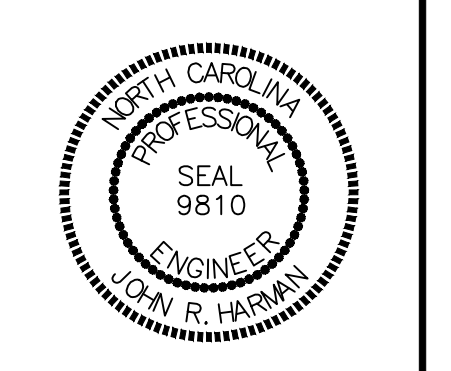
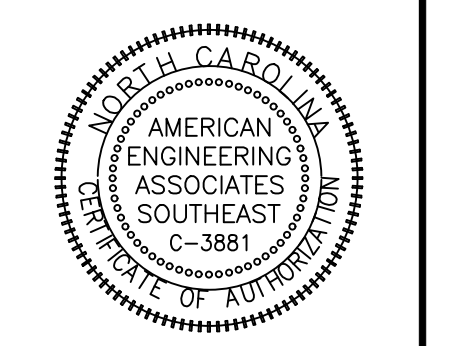
THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY 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/MAL/ES/AH/DH
DATE: NOV 1, 2024
SHEET TITLE: PHASE 3 SITE PLAN
SHEET NO.: 5.3



2:\Projects\2024\Kalam Falls\Phase 3\Site Plan.dwg, Working Date: 11/11/2025



SETBACK TABLE SINGLE FAMILY

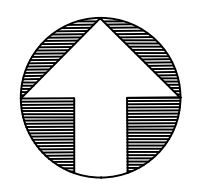
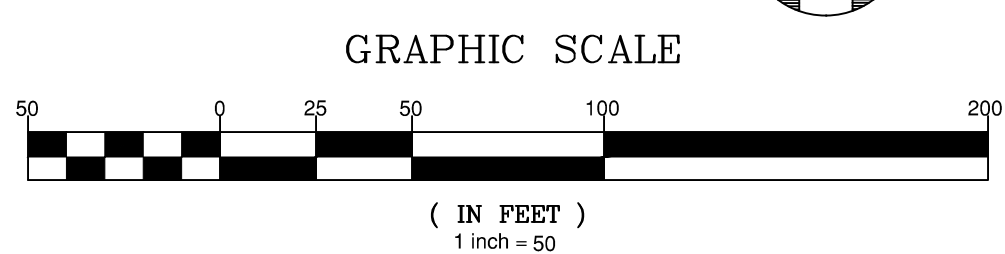
	50'	50' W ALLEY	50'-59'	60'-69'	70'-79'	80'-100'	101'+
FRONT	20'	15'	20'	25'	25'	25'	25'
REAR	20'	15'	20'	25'	25'	25'	30'
SIDE	**	**	**	*	*	10'	12'
CORNER SIDE	10'	10'	10'	10'	10'	15'	18'
MIN. LOT SIZE	6,000	6,000	6,000	6,600	8,400	10,400	14,000

* AGGREGATE 12', MIN. 5'
 ** MIN. 3' AGGREGATE 10'

- GENERAL NOTE:
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 RESIDENTIAL-COLLECTOR- 30'
 COLLECTOR-COLLECTOR- 30'
 ENTRANCE AT CUL-DE-SAC- 32.5
 ENTRY ROADS-ROLESVILLE RD.- 35'

SITE LEGEND

	PROPOSED LOT LINE
	100 YEAR FLOOD EASEMENT
	BUILDING RESTRICTION LINE
	PROPOSED LOT SETBACK
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED GRADING
	PROPOSED DRAINAGE/EASEMENT
	PROPOSED UTILITY EASEMENT
	PROPOSED HANDICAP RAMPS
	PROPOSED SIGHT TRIANGLE
	TOT LOT
	POCKET PARK
	MAIL KIOSK LOCATION
	OPEN SPACE
	GREENWAY TRAIL HATCH
	GREENWAY/ROADSIDE TRAIL
	FUTURE PHASING
	EXISTING PHASING
	EXISTING WETLANDS
	PROPOSED SWALE (AT TIME OF LOT GRADING)
	PROPOSED PHASELINE



JODGE WILLIAM FRANK II MILES, GWENDOLYN H. ZONING: R-30 B. 15305, PG. 2406 TRACT 5 .M. 1971, PG. 445 VO. 1757-02-97-4973 . ESTATE ID: 0087115

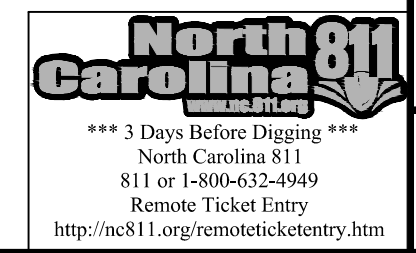
JONES PROPERTIES, LLC ZONING: R-30 D.B. 13842, PG. 1231 LOT 4A

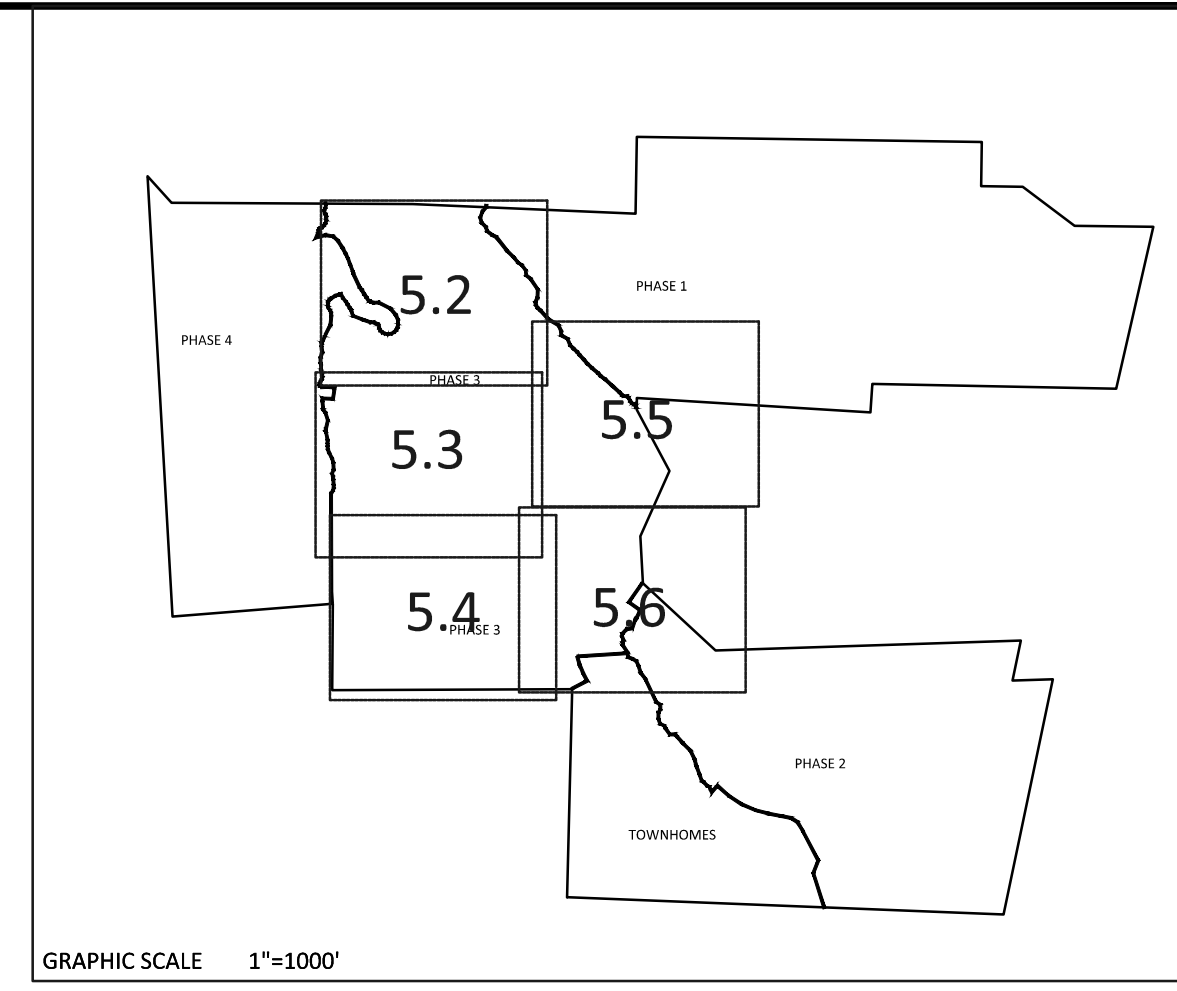
NO.	DATE	REVISION
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3	10/7/2024	CONSTRUCTION DRAWING COMMENT RESPONSES
4	3/17/2025	CONSTRUCTION DRAWING COMMENT RESPONSES

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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
 SHEET TITLE: PHASE 3 SITE PLAN
 SHEET NO.: 5.4





SETBACK TABLE SINGLE FAMILY

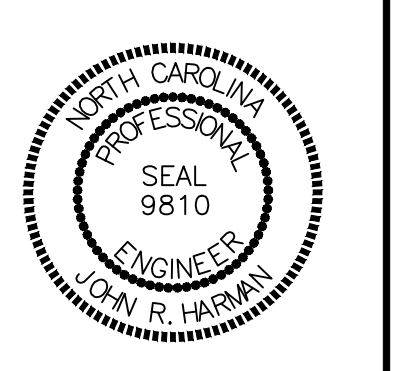
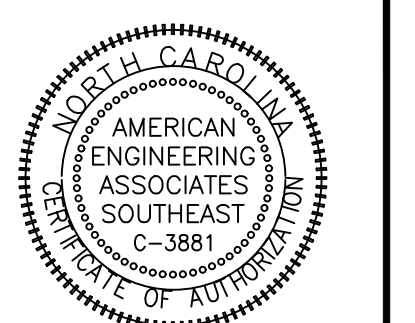
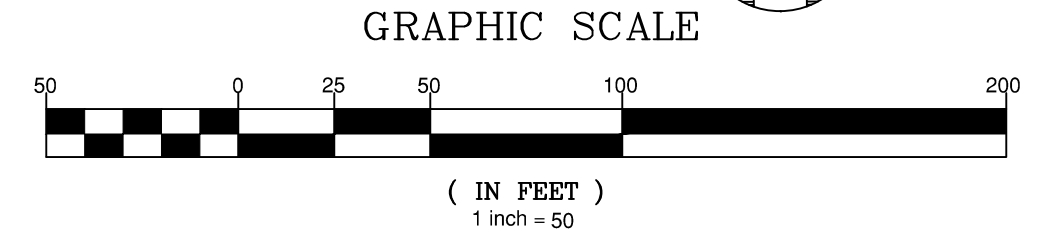
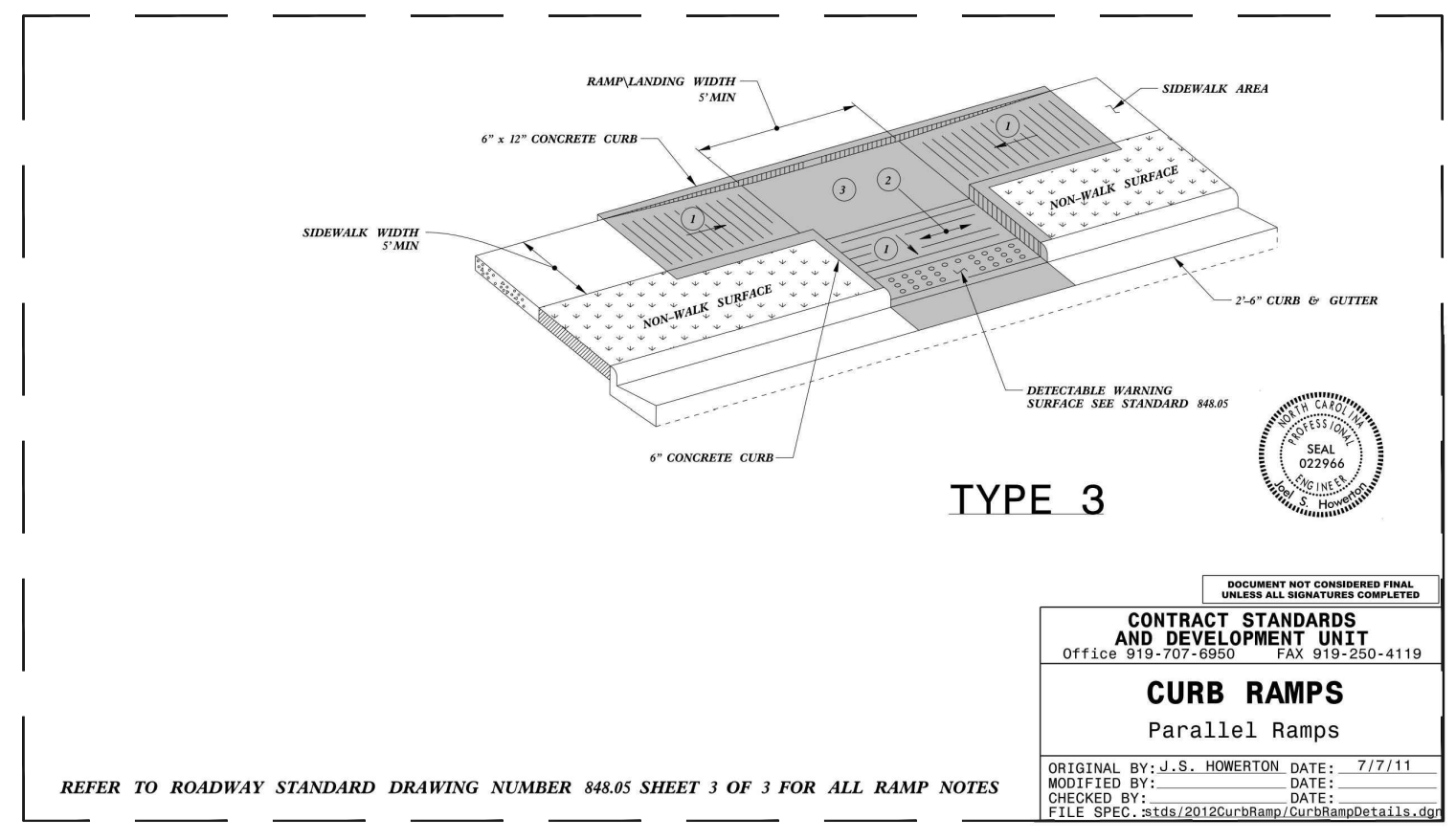
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 ** MIN. 3' AGGREGATE 10'

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SITE LEGEND

---	PROPOSED LOT LINE
---	100 YEAR FLOOD EASEMENT
---	BUILDING RESTRICTION LINE
---	PROPOSED LOT SETBACK
---	PROPOSED ROW
---	PROPOSED SIDEWALK
---	PROPOSED BOC
---	PROPOSED EOP
---	PROPOSED CENTERLINE
---	PROPOSED GRADING
---	PROPOSED DRAINAGE EASEMENT
---	PROPOSED UTILITY EASEMENT
---	PROPOSED HANDICAP RAMPS
---	PROPOSED SIGHT TRIANGLE
○	TOT LOT
○	POCKET PARK
○	MAIL KIOSK LOCATION
□	OPEN SPACE
□	GREENWAY TRAIL HATCH
□	GREENWAY/ROADSIDE TRAIL
□	FUTURE PHASING
□	EXISTING PHASING
□	EXISTING WETLANDS
---	PROPOSED SWALE (AT TIME OF LOT GRADING)
---	PROPOSED PHASELINE



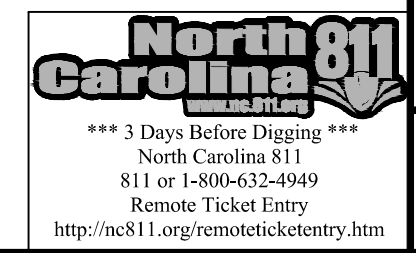
REVISIONS

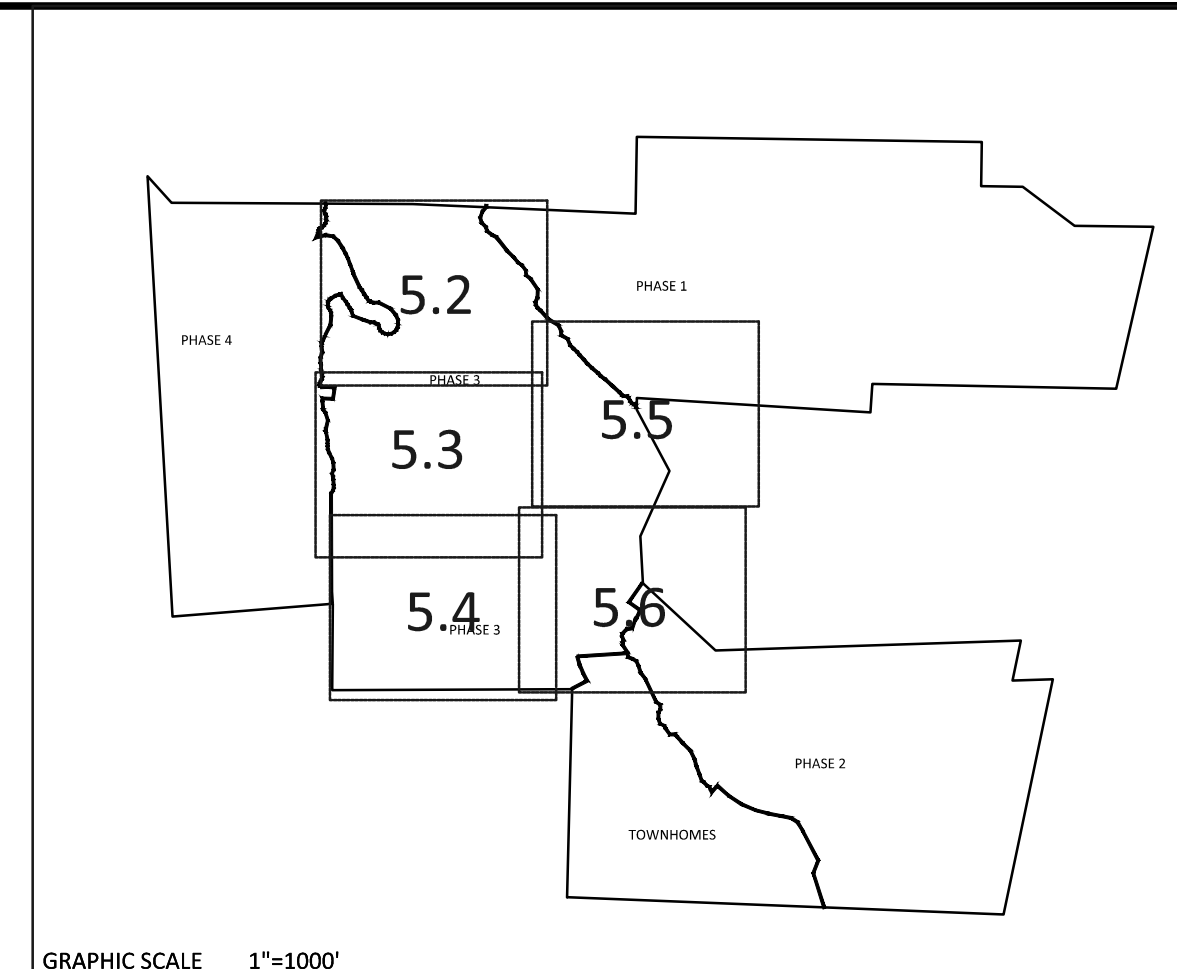
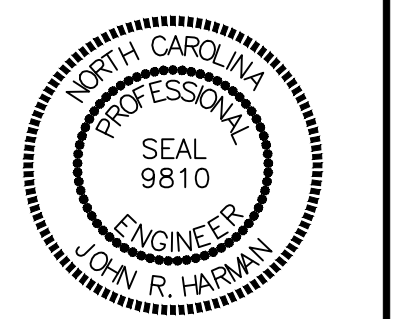
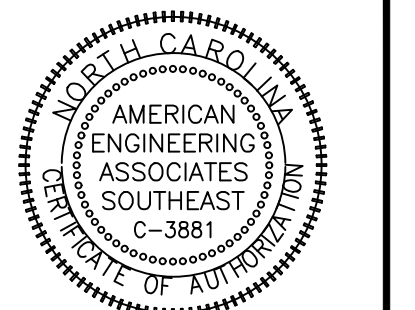
NO.	DATE	REVISION
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KALAS FALLS PHASE 3
 1832 ROLESVILLE ROAD
 WAKE COUNTY, NC

JOB NUMBER: 9900
 CHECKED BY: BH/JH
 DRAWN BY: SM/M/LL/ES/AH/DH
 DATE: NOV 1, 2024
 SHEET TITLE:
PHASE 3 SITE PLAN
 SHEET NO.:
5.5





GRAPHIC SCALE 1"=100'

SETBACK TABLE SINGLE FAMILY

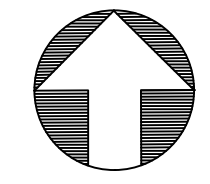
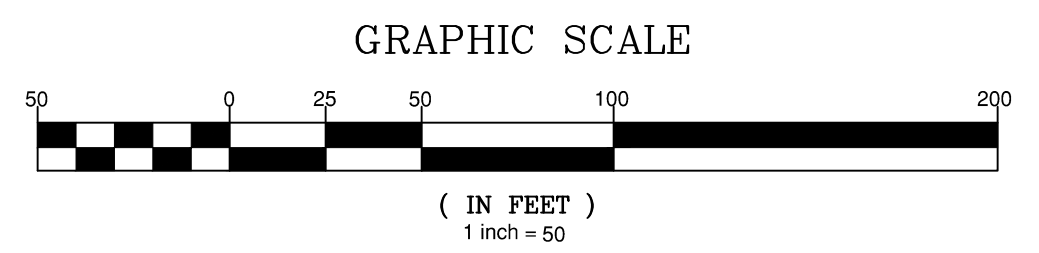
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SIDE	**	**	**	*	*	12'
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ENTRY ROADS-ROLESVILLE RD.-35'

SITE LEGEND

	PROPOSED LOT LINE
	100 YEAR FLOOD EASEMENT
	BUILDING RESTRICTION LINE
	PROPOSED LOT SETBACK
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
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	PROPOSED DRAINAGE EASEMENT
	PROPOSED UTILITY EASEMENT
	PROPOSED HANDICAP RAMPS
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	TOT LOT
	POCKET PARK
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	OPEN SPACE
	GREENWAY TRAIL HATCH
	GREENWAY/ROADSIDE TRAIL
	FUTURE PHASING
	EXISTING PHASING
	EXISTING WETLANDS
	PROPOSED SWALE (AT TIME OF LOT GRADING)
	PROPOSED PHASELINE



D.W. 4/14/10, P.L. 00
B.M. 1986, PG. 968
B.M. 1928, PG. 142
PIN NO. 1767.01-28-4304
REAL ESTATE ID: 0048422

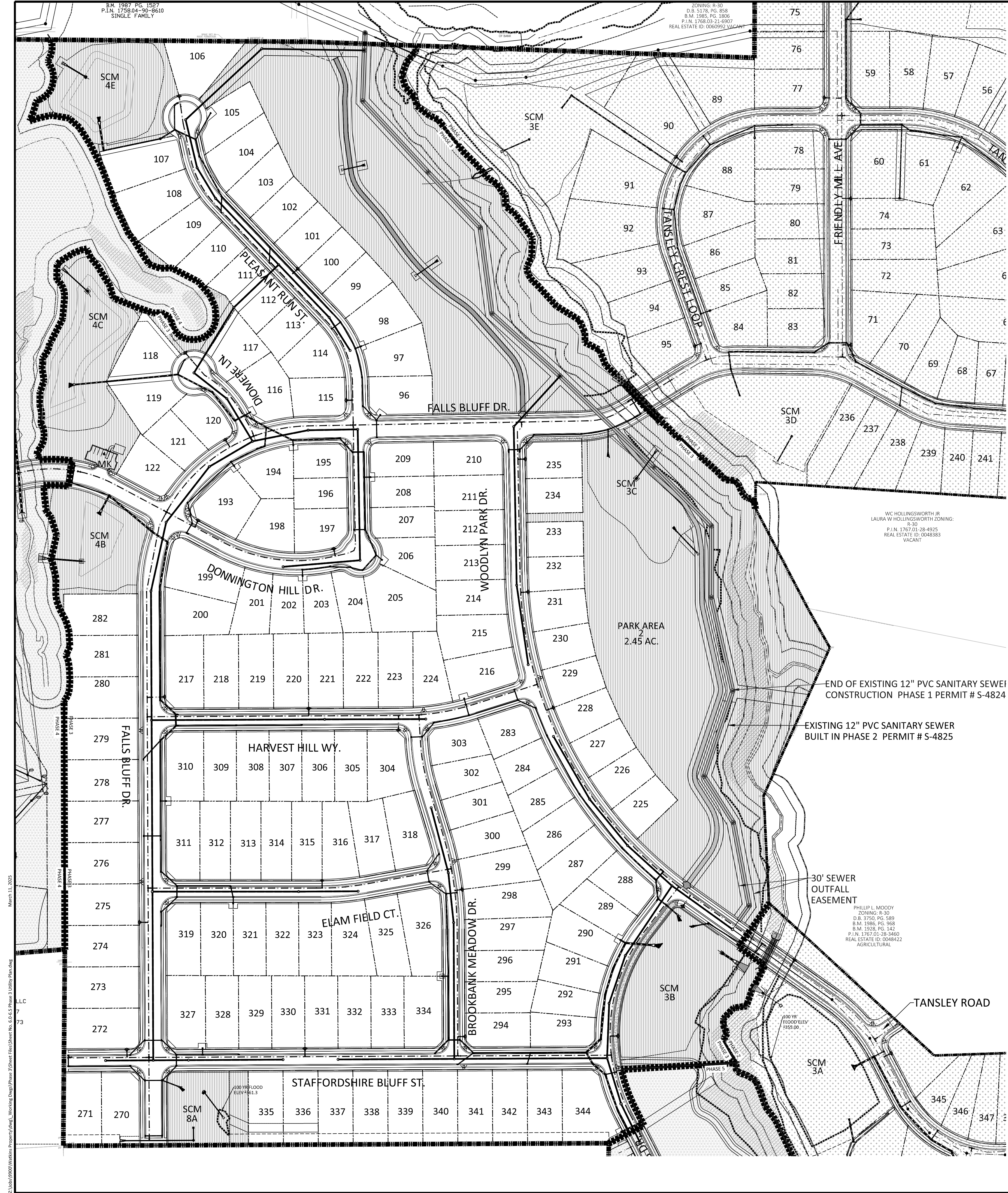
NO.	DATE	REVISION
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**KALAS FALLS
PHASE 3
1832 ROLESVILLE ROAD
WAKE COUNTY, NC**

JOB NUMBER:	9900
CHECKED BY:	BH/JH
DRAWN BY:	SM/M/LL/ES/AH/DH
DATE:	NOV 1, 2024
SHEET TITLE:	PHASE 3 SITE PLAN
SHEET NO.:	5.6





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.

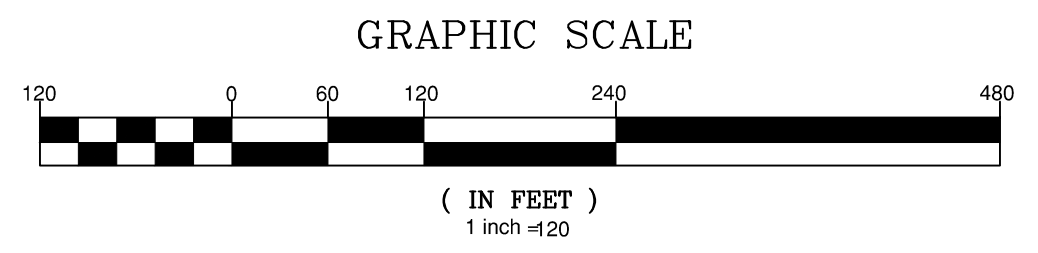
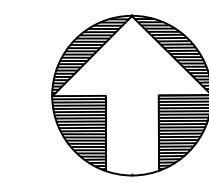
END OF EXISTING 12" PVC SANITARY SEWER CONSTRUCTION PHASE 1 PERMIT # S-4824

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

30' SEWER OUTFALL EASEMENT

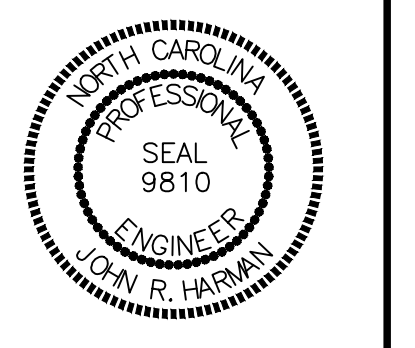
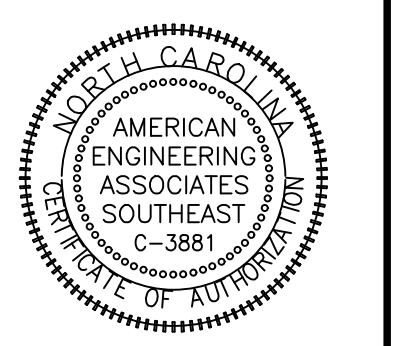
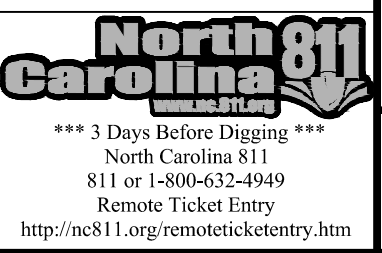
ATTENTION CONTRACTORS
 The Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Inspector at 919-996-3245 or <https://cityworks.raleighnc.gov/pucontractors/New> and schedule a Pre-construction meeting prior to beginning any construction.
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 Failure to notify the Divisions in advance of beginning construction, will result in the issuance of monetary fines, and require installation 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.

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



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

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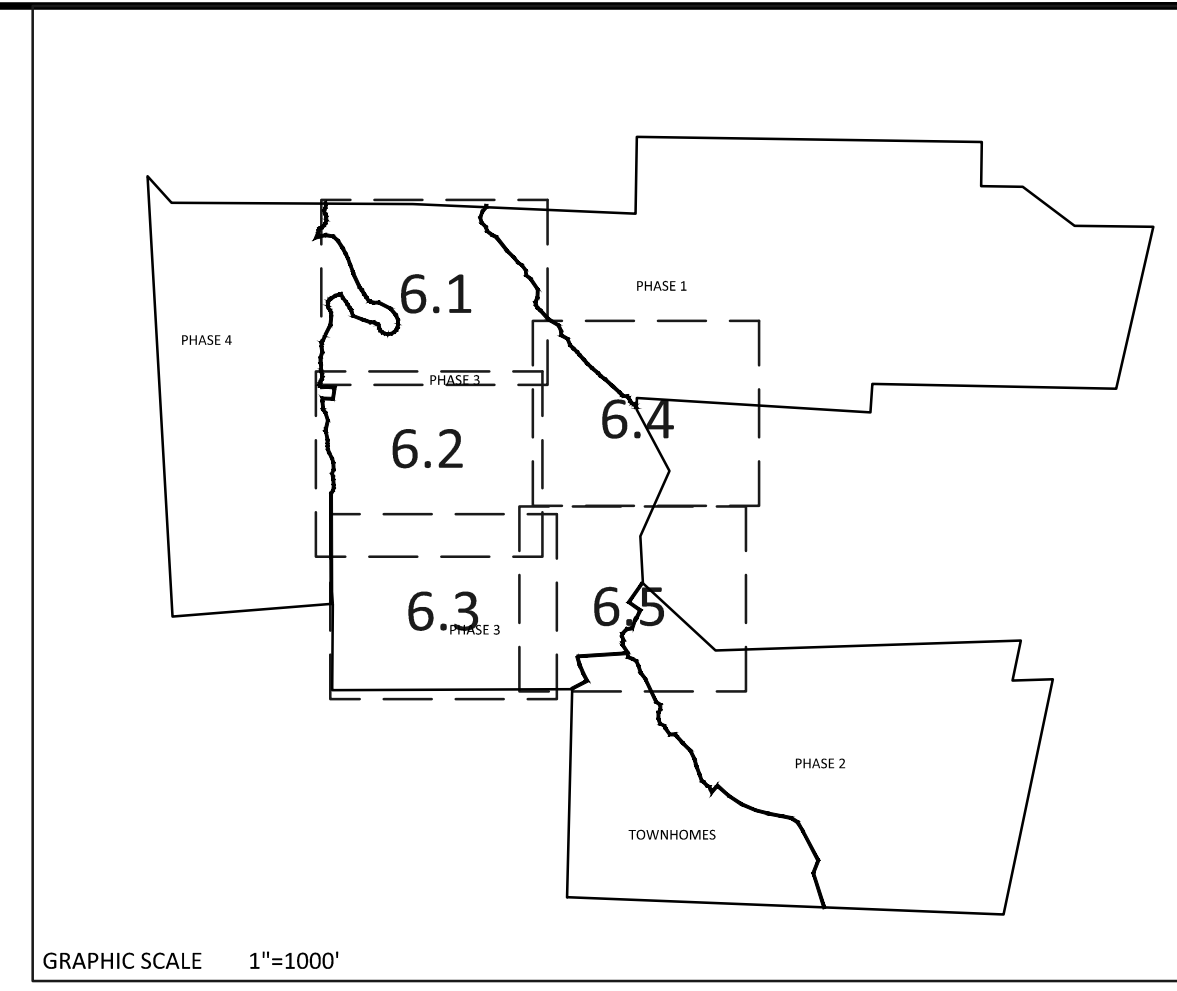
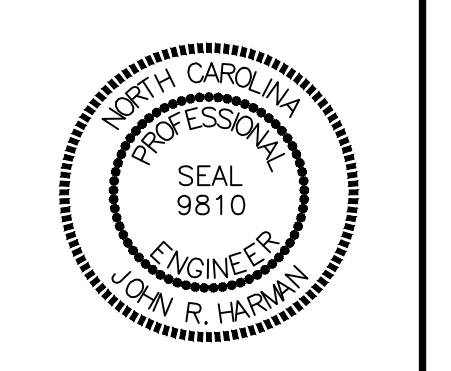
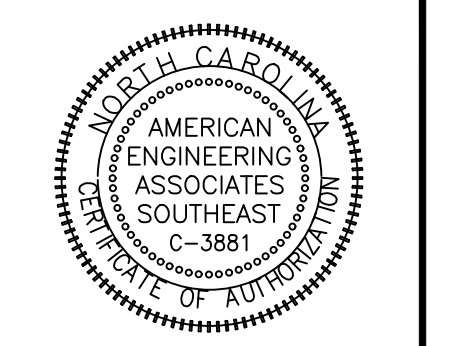


NO.	DATE	REVISION
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KALAS FALLS PHASE 3
 1832 ROLESVILLE ROAD
 WAKE COUNTY, NC

JOB NUMBER: 9900
 CHECKED BY: BH/JH
 DRAWN BY: SMM/ML/ES/AH/DH
 DATE: NOV 1, 2024
 SHEET TITLE:
PHASE 3 OVERALL UTILITY PLAN
 SHEET NO.:
6.0

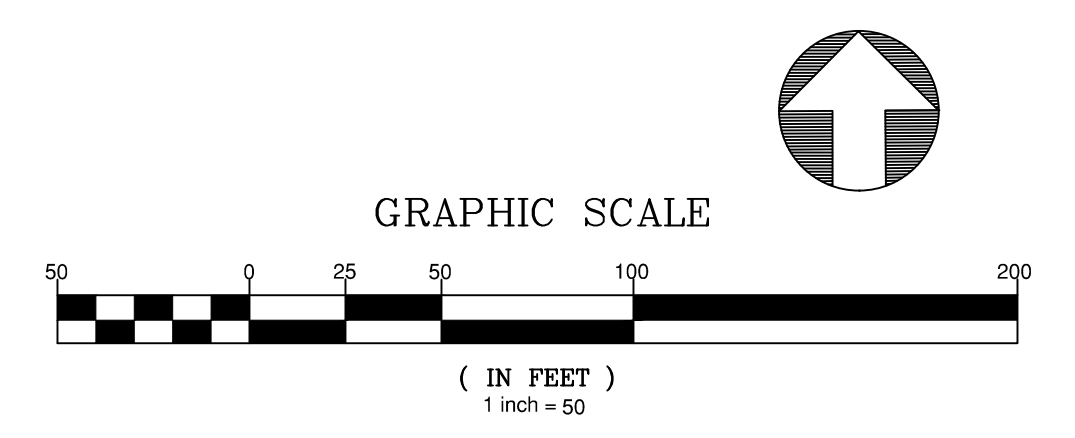


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	100 YEAR FLOOD EASEMENT

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--	--	---

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2	9/4/2024	TOWN OF ROLESVILLE CONSULTANT COMMENTS
3	10/07/2024	CONSTRUCTION DRAWING COMMENT RESPONSES
4	3/27/2025	CONSTRUCTION DRAWING COMMENT RESPONSES

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

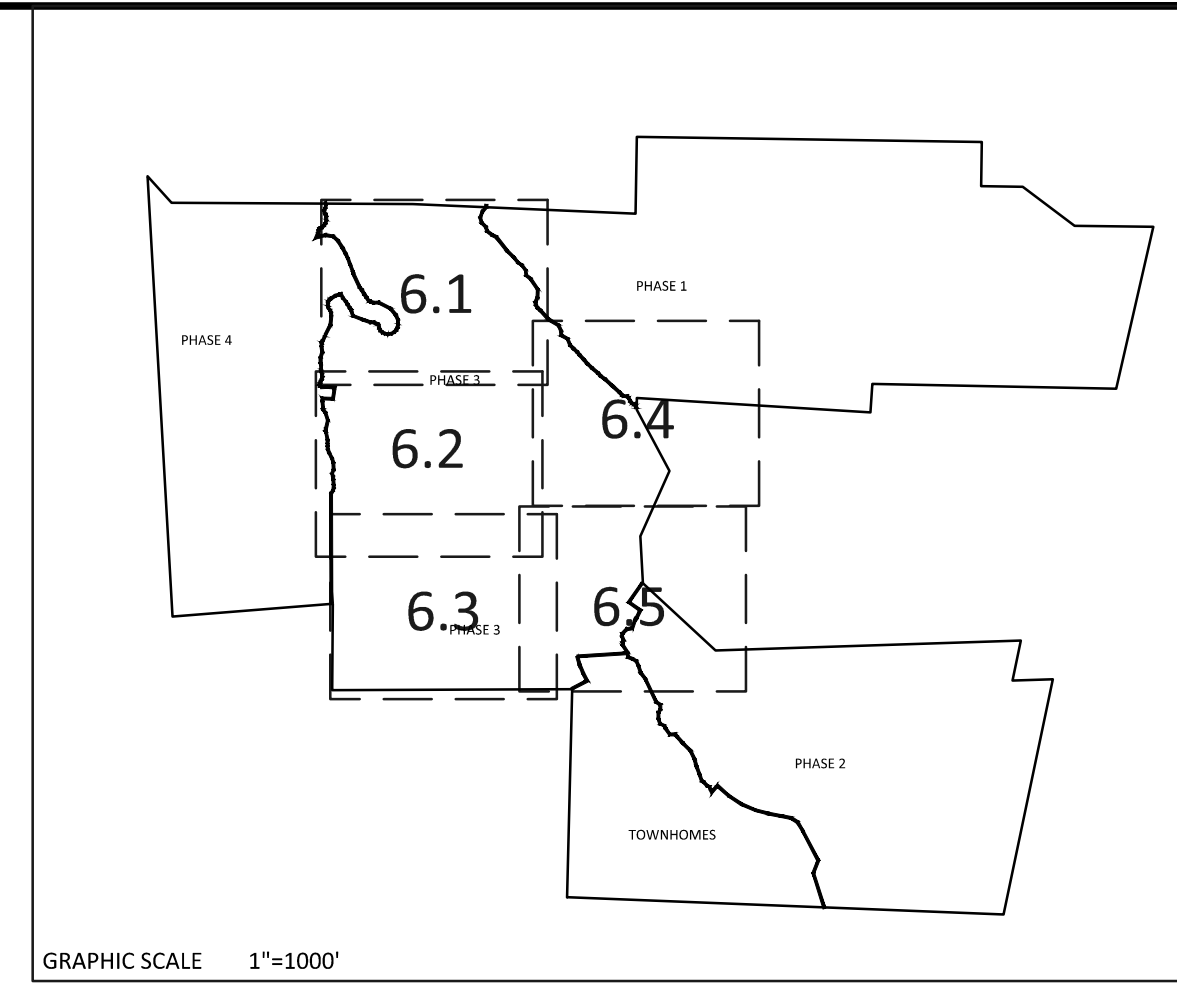
JOB NUMBER:	9900
CHECKED BY:	BH/JH
DRAWN BY:	SMM/ALL/ES/AH/DH
DATE:	NOV 1, 2024
SHEET TITLE:	PHASE 3 UTILITY PLAN (50 SCALE)
SHEET NO.:	6.1

NO.	DATE	REVISION
1	7/2/2025	ISSUE FOR REVIEW FROM TOWN OF ROLESVILLE, CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH
2	9/4/2024	REVISED FROM ROLESVILLE CONSULTANT COMMENTS
3	10/7/2024	CONSTRUCTION DRAWING COMMENT RESPONSES
4	3/17/2025	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/M/LL/ES/AH/DH
DATE: NOV 1, 2024
SHEET TITLE:
PHASE 3 UTILITY PLAN (50 SCALE)
SHEET NO.: 6.2

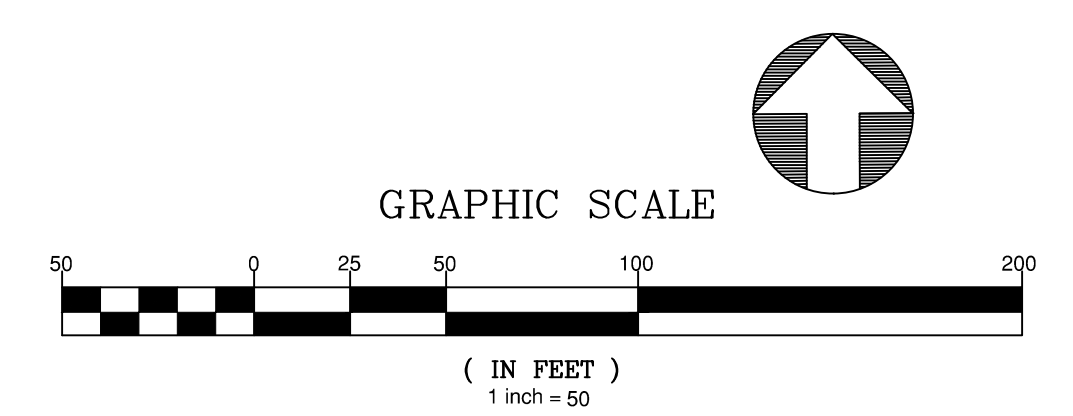


UTILITIES LEGEND	
	EXISTING BOUNDARY
	EXISTING 50' NEUSE RIPARIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	PROPOSED ROW
	PROPOSED SIDEWALK
	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED EASEMENT
	PHASELINE
	RIP RAP
	BASIN WEIR
	JUNCTION BOX
	PROPOSED CATCH BASIN
	PROPOSED YARD INLET
	PROPOSED DROPPED 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

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/contractors/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 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 # _____

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 # _____

