

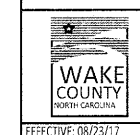
**EROSION AND SEDIMENT CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT APPROVED**

EROSION CONTROL  S-xxxx

STORMWATER MGMT.  S-xxxx

FLOOD STUDY

DATE xx/xx/20



ENVIRONMENTAL CONSULTANT SIGNATURE

# CONSTRUCTION PHASE 3 FOR KALAS FALLS SITUATED AT

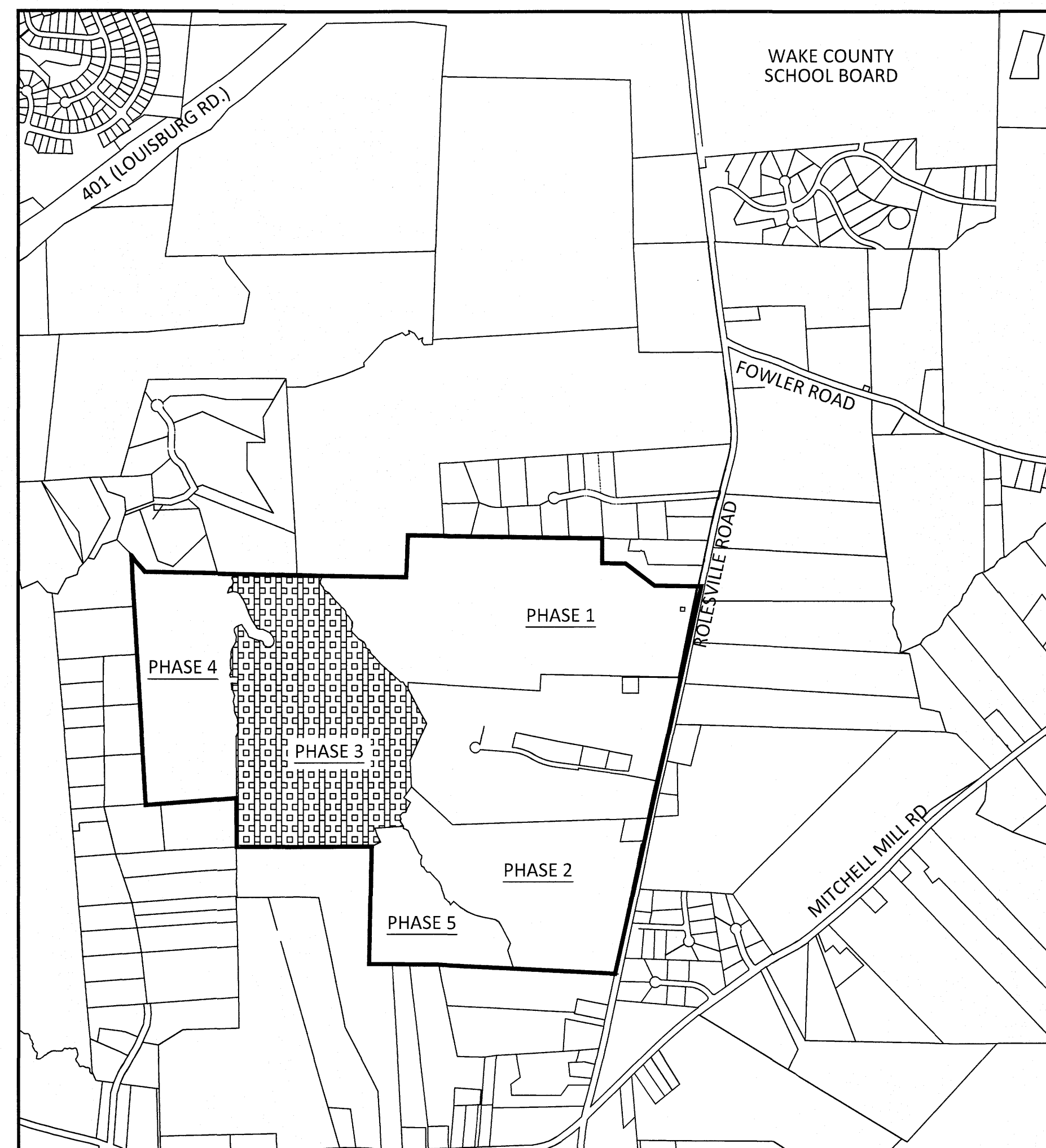
ROLESVILLE ROAD, ROLESVILLE

## WAKE COUNTY, NORTH CAROLINA

PROPRY 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 TIMLIN 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
2.2-2.7	EROSION CONTROL(50 SCALE)
2.7	CULVERT CROSSING DETAILS
3.0	GENERAL NOTES AND LEGENDS
3.1	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	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
L1-L2	LANDSCAPE PLAN
CD1-CD19	CIVIL DETAILS

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.



VICINITY MAP  
SCALE: 1"=1000'

THESE IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE FOLLOWING DRAWINGS AND THE STANDARD SPECIFICATIONS OF 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")	251 LF
PUBLIC SEWER (8")	8,579 LF
PUBLIC STREETS	10,273 LF
TOTAL NO. OF LOTS	145
LIMITS OF DISTURBANCE	33.44 AC

**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.

**ATTENTION CONTRACTORS:**

THE CONTRACTOR RESPONSIBLE FOR THE EXTENSION OF WATER, SEWER, AND / OR USE, AS APPROVED IN THESE PLANS, IS RESPONSIBLE FOR CONTACTING THE PUBLIC UTILITIES DEPARTMENT AT (919) 996-4540 AT LEAST TWENTY FOUR HOURS PRIOR TO BEGINNING ANY OF THEIR CONSTRUCTION.

FAILURE TO NOTIFY BOTH CITY DEPARTMENTS IN ADVANCE OF BEGINNING CONSTRUCTION, WILL RESULT IN THE ISSUANCE OF MONETARY FINES, AND REQUIRE REINSTALLATION OF ANY WATER AND SEWER FACILITIES NOT INSPECTED AT THE TIME OF THE NOTIFICATION FAILURE.

FAILURE TO CALL FOR INSPECTION, INSTALL A DOWNSTREAM PLUG, HAVE PERMITTED PLANS ON THE JOB SITE, OR ANY OTHER VIOLATION OF THE CITY OF RALEIGH STANDARDS WILL RESULT IN A FINE AND POSSIBLE EXCLUSION FROM FUTURE WORK IN THE CITY OF RALEIGH.

- 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.

**APPROVED FOR COMPLIANCE**

Case # \_\_\_\_\_ Project: \_\_\_\_\_

By: \_\_\_\_\_ Date: \_\_\_\_\_

These plans have been approved for compliance with the Town Code of Ordinance, UDO, and Standard Specifications & Construction Details, subject to statements & conditions hereby incorporated by reference.

**SITE PERMITTING APPROVAL**

Water and Sewer Permits (if applicable)

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 # \_\_\_\_\_**

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 # \_\_\_\_\_**

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

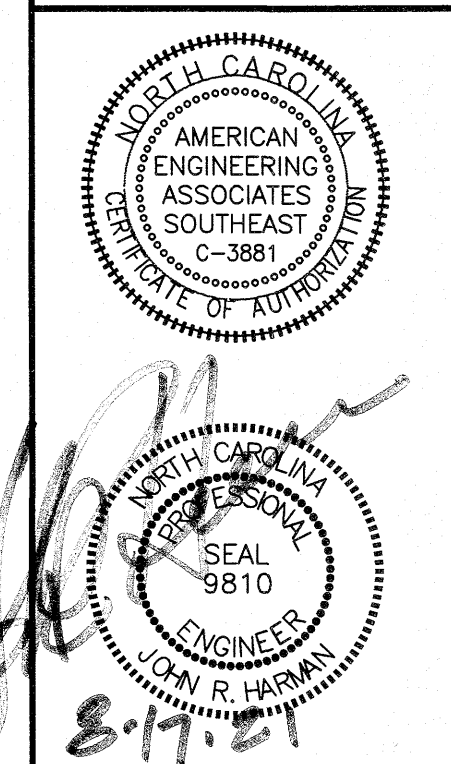
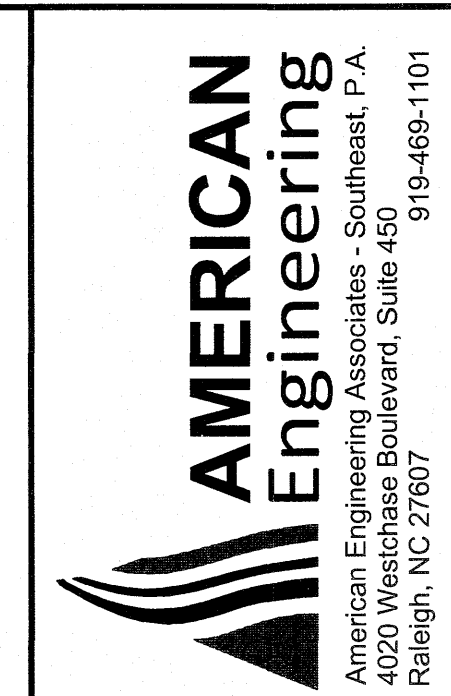
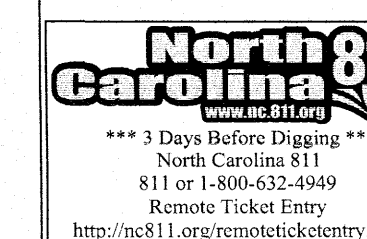
**City of Raleigh Public Utilities Department Permit # \_\_\_\_\_**

**CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION**

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval \_\_\_\_\_

Raleigh Water Review Officer



NO.	DATE	REVISION:
1.	7/21/2021	ISSUE FOR TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH

**STIPULATION FOR REUSE**

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

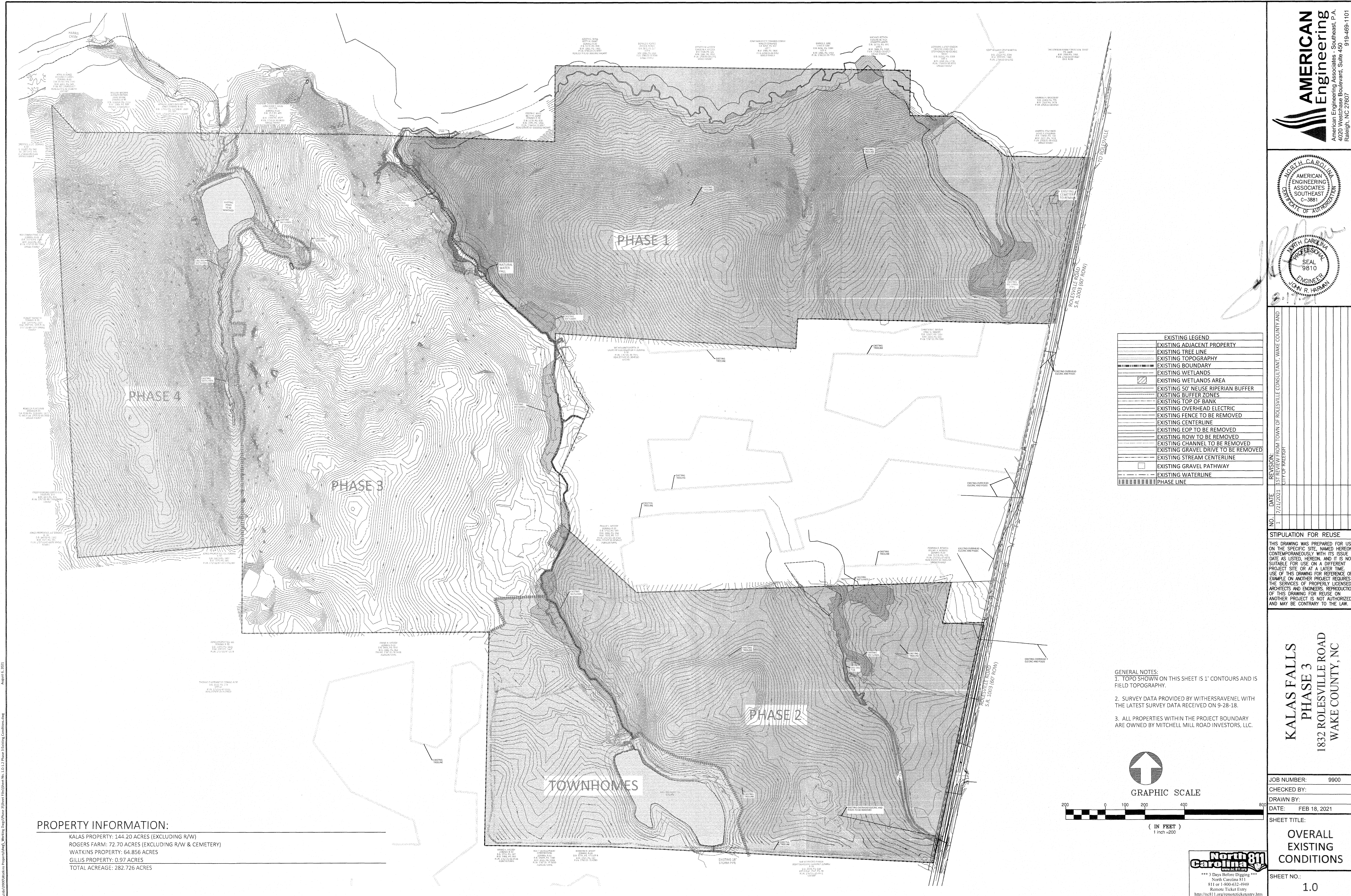
**KALAS FALLS PHASE 3**  
1832 ROLESVILLE ROAD  
WAKE COUNTY, NC

JOB NUMBER: 9900  
CHECKED BY:  
DRAWN BY:  
DATE: FEB 18, 2021  
SHEET TITLE:

**COVER SHEET**

SHEET NO.: CVR

August 17, 2021  
Z:\Info\000\000\Projects\000\Wake\Draw\Phase 3\Sheet 1\000\000.dwg



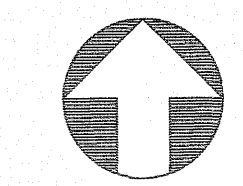
**PROPERTY INFORMATION:**

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

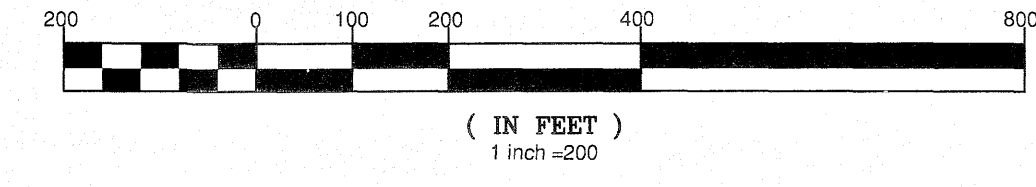
**EXISTING LEGEND**

[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 RIPERIAN BUFFER
[Symbol]	EXISTING BUFFER ZONES
[Symbol]	EXISTING TOP OF BANK
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[Symbol]	EXISTING FENCE TO BE REMOVED
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[Symbol]	EXISTING STREAM CENTERLINE
[Symbol]	EXISTING GRAVEL PATHWAY
[Symbol]	EXISTING WATERLINE
[Symbol]	PHASE LINE

- GENERAL NOTES:**
1. TOPO SHOWN ON THIS SHEET IS 1' CONTOURS AND IS FIELD TOPOGRAPHY.
  2. SURVEY DATA PROVIDED BY WITHERSRAVENEL 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.

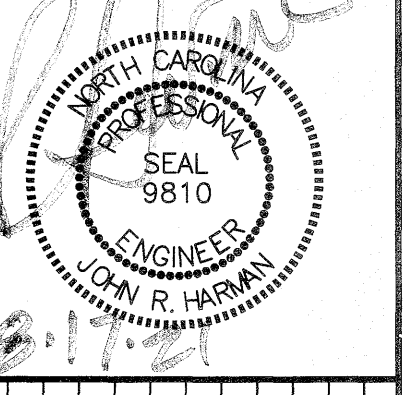
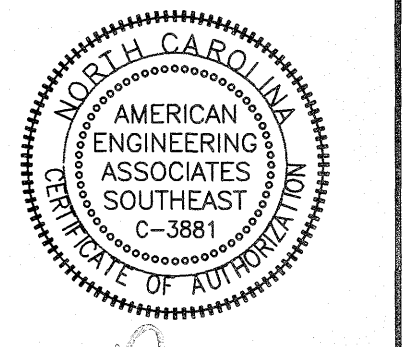


GRAPHIC SCALE



**North Carolina 811**  
 \*\*\* 3 Days Before Digging \*\*\*  
 North Carolina 811  
 811 or 1-800-632-4949  
 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



NO.	DATE	REVISION:
1	7/21/2021	1ST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT WAKE COUNTY AND CITY OF RALEIGH

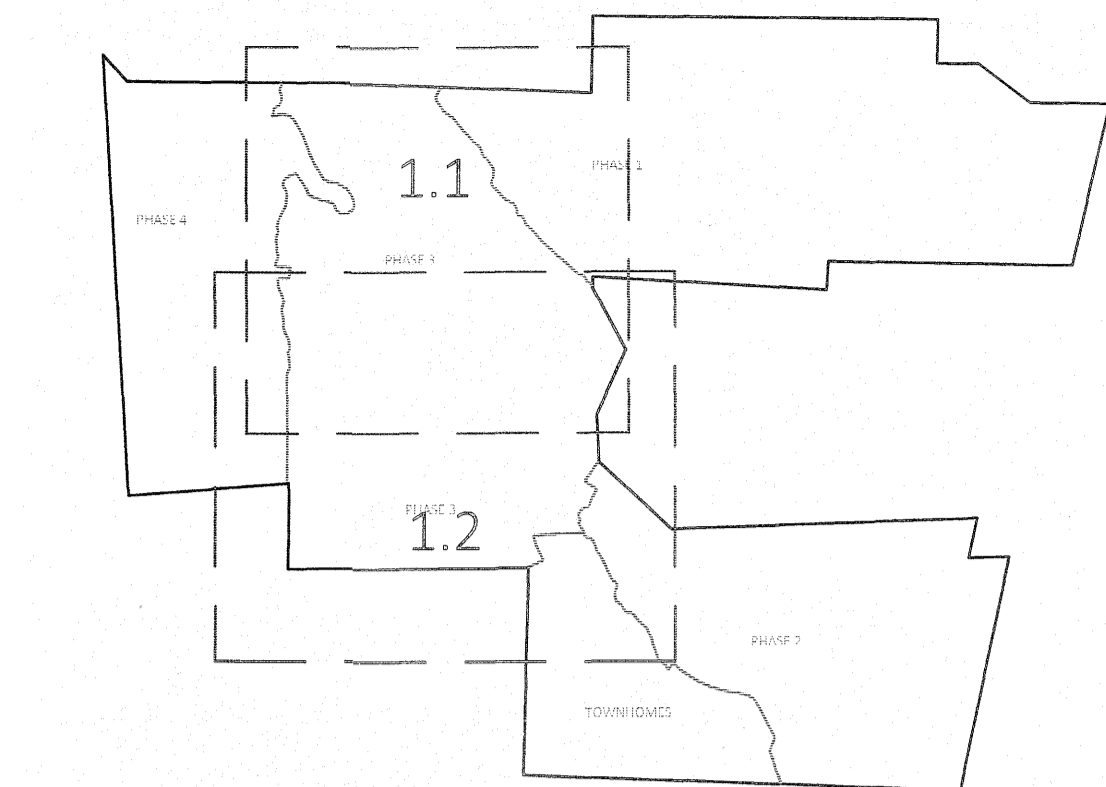
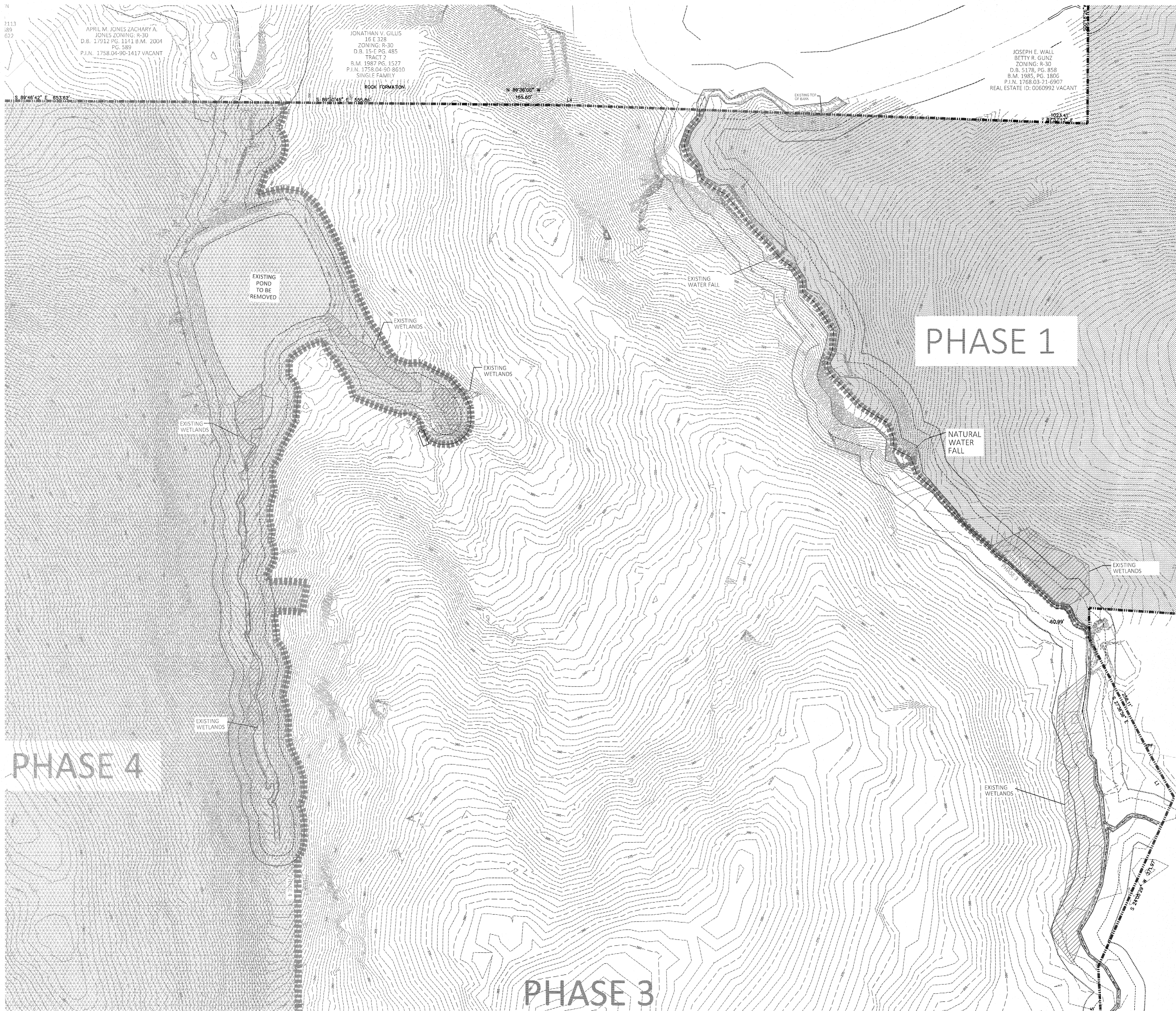
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**KALAS FALLS PHASE 3**  
 1832 ROLESVILLE ROAD  
 WAKE COUNTY, NC

JOB NUMBER: 9900  
 CHECKED BY:  
 DRAWN BY:  
 DATE: FEB 18, 2021

SHEET TITLE:  
**OVERALL EXISTING CONDITIONS**

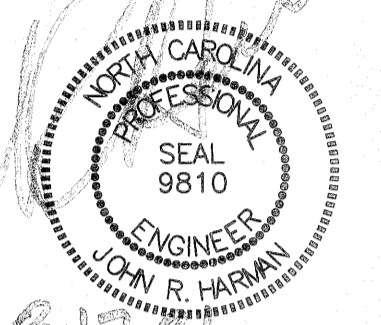
SHEET NO.:  
**1.0**



GRAPHIC SCALE 1"=1000'

EXISTING LEGEND	
[Symbol]	EXISTING ADJACENT PROPERTY
[Symbol]	EXISTING TREE LINE
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**AMERICAN**  
Engineering  
Associates  
American Engineering Associates - Southeast, P.A.  
4020 Westgate Boulevard, Suite 450  
Raleigh, NC 27607  
919-489-1101

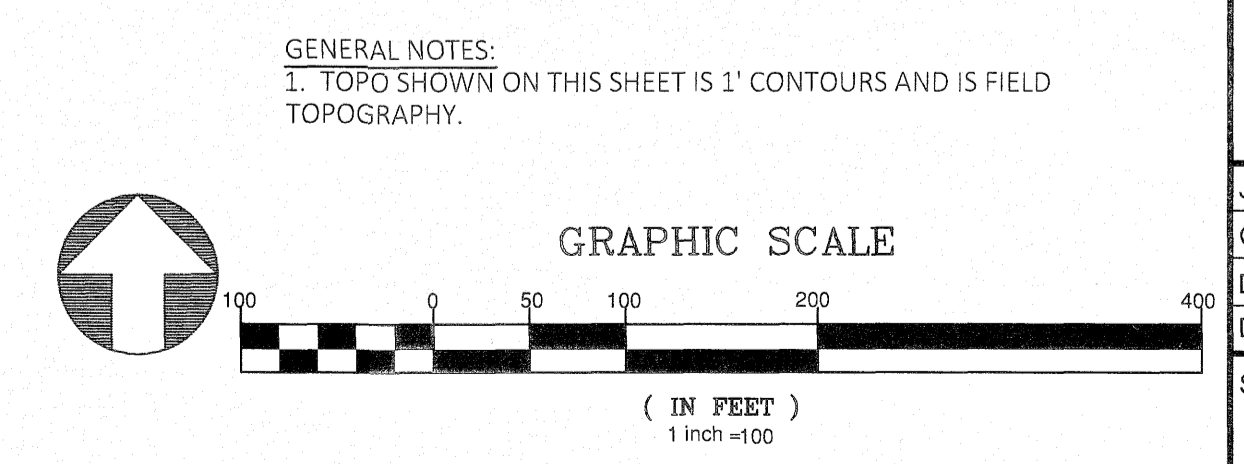


NO.	DATE	REVISION
1	7/21/2021	LIST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH

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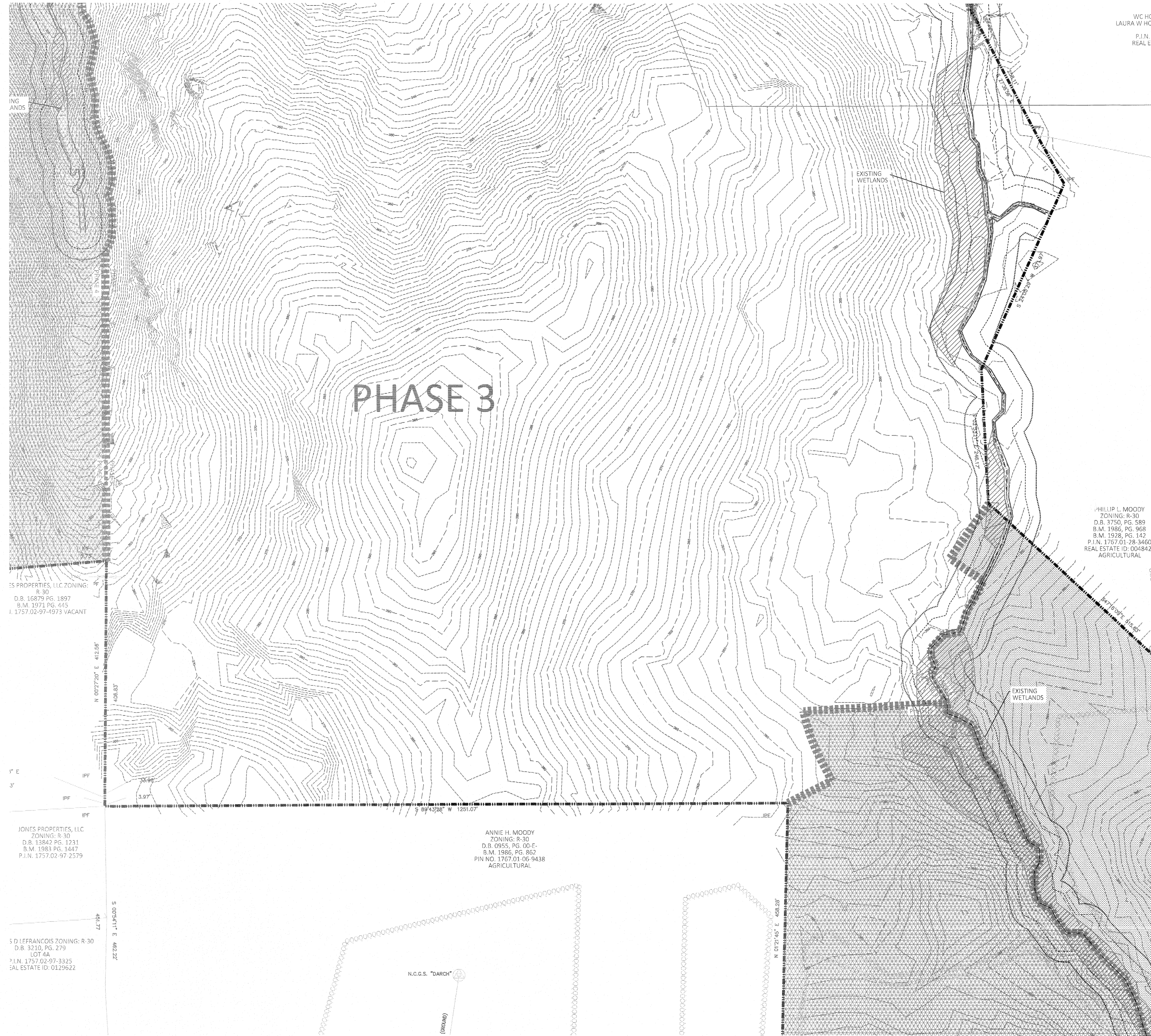
**KALAS FALLS  
PHASE 3  
1832 ROLESVILLE ROAD  
WAKE COUNTY, NC**

JOB NUMBER: 9900  
CHECKED BY:  
DRAWN BY:  
DATE: FEB 18, 2021  
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.





WC HOLLIF  
LAURA W HOLLIF  
P.I.N. 176  
REAL ESTATE

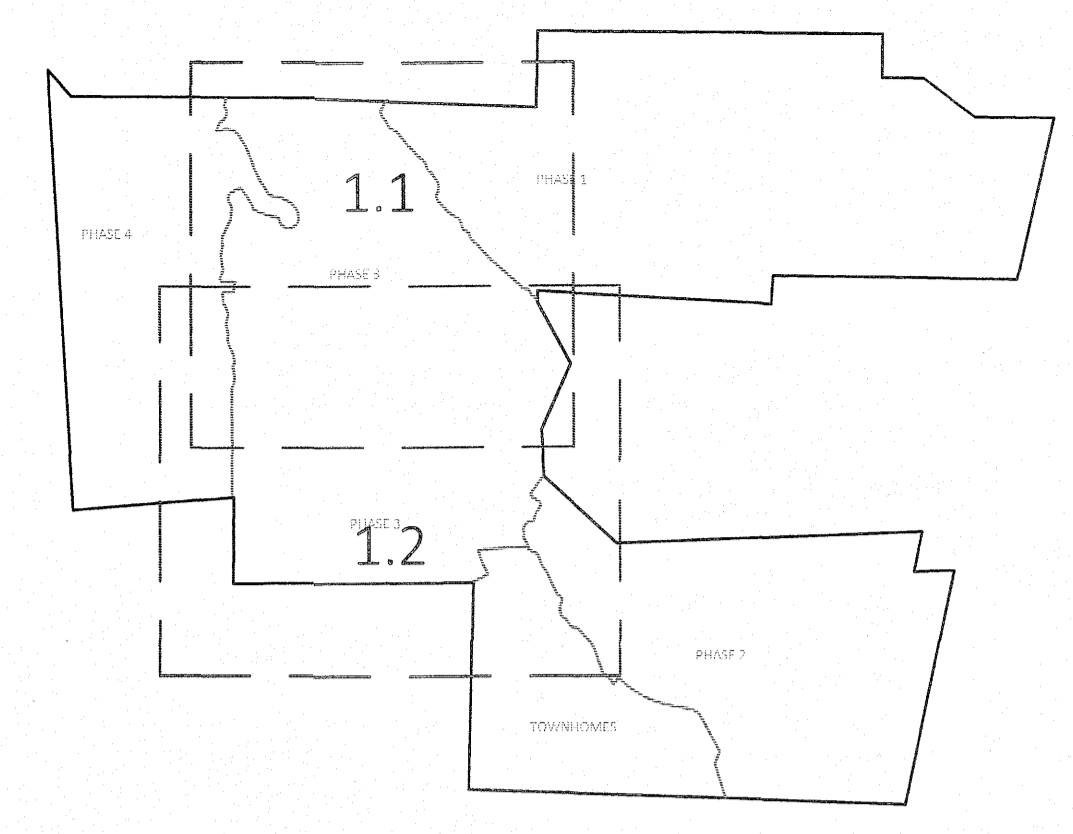
PHILLIP L. MOODY  
ZONING: R-30  
D.B. 3750, PG. 589  
B.M. 1986, PG. 968  
B.M. 1928, PG. 142  
P.I.N. 1767.01-28-3460  
REAL ESTATE ID: 0048422  
AGRICULTURAL

ANNIE H. MOODY  
ZONING: R-30  
D.B. 0955, PG. 00-E  
B.M. 1986, PG. 862  
P.I.N. 1767.01-06-9438  
AGRICULTURAL

55 PROPERTIES, LLC ZONING: R-30  
D.B. 16879 PG. 1897  
B.M. 1971 PG. 645  
I. 1757.02-97-4973 VACANT

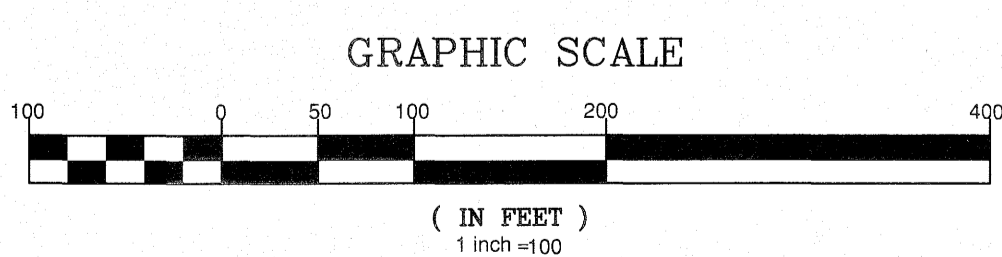
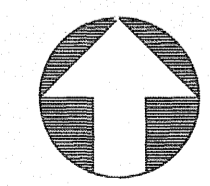
JONES PROPERTIES, LLC  
ZONING: R-30  
D.B. 13842 PG. 1231  
B.M. 1983 PG. 1447  
P.I.N. 1757.02-97-2579

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



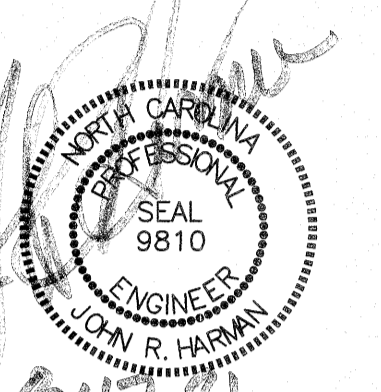
GRAPHIC SCALE 1"=100'

EXISTING LEGEND	
[Symbol]	EXISTING ADJACENT PROPERTY
[Symbol]	EXISTING TREE LINE
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919-469-1101



NO. 1 DATE 7/21/2021 REVISION: 1ST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH

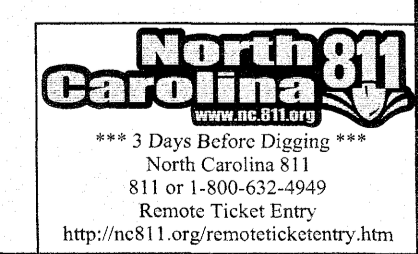
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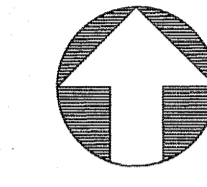
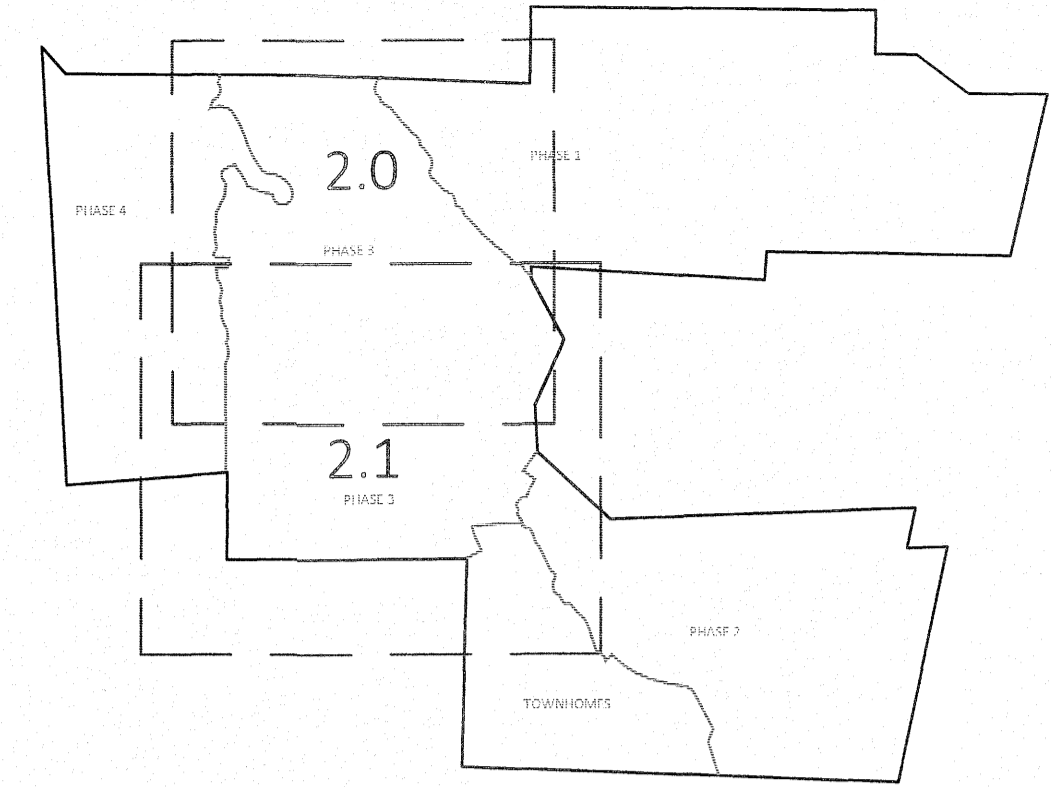
**KALAS FALLS  
PHASE 3  
1832 ROLESVILLE ROAD  
WAKE COUNTY, NC**

JOB NUMBER: 9900  
CHECKED BY:  
DRAWN BY:  
DATE: FEB 18, 2021

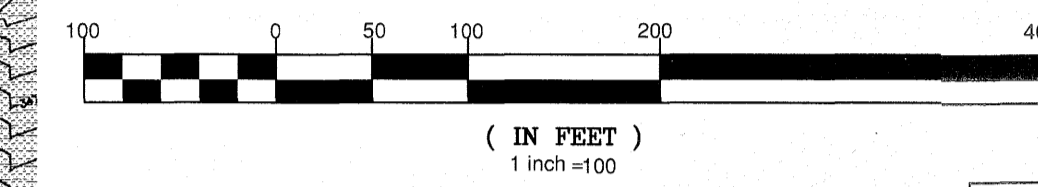
SHEET TITLE:  
**PHASE 3  
EXISTING  
CONDITIONS**

SHEET NO.:  
**1.2**





GRAPHIC SCALE 1"=1000'

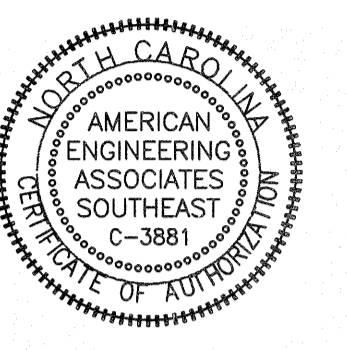


( IN FEET )  
1 inch = 100'

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 LOW POINT
	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

- 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. WHERE SILT FENCE IS LOCATED OUTSIDE OF TEMPORARY SILT DITCHES THE SILT FENCE WILL BE THE LIMITS OF DISTURBANCE.
  4. SEE SHEET 3.1 FOR SEDIMENT BASIN CHART SHOWING THE SKIMMER/ORIFICE SIZES.
  5. DIVERSION SWALE DESIGN, SEE SHEET 3.1 FOR DETAILS AND REFERENCE TABLE.
  6. SEE SHEETS 2.2 TO 2.6 FOR SLOPE DRAIN PIPE SIZES.
  7. SEE SHEET 3.1 FOR RIP RAP PAD SIZES.

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

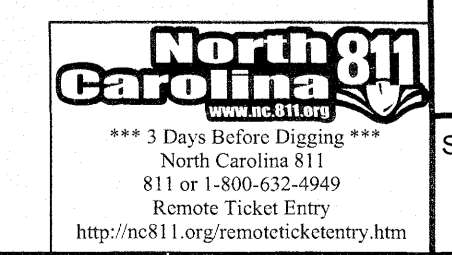


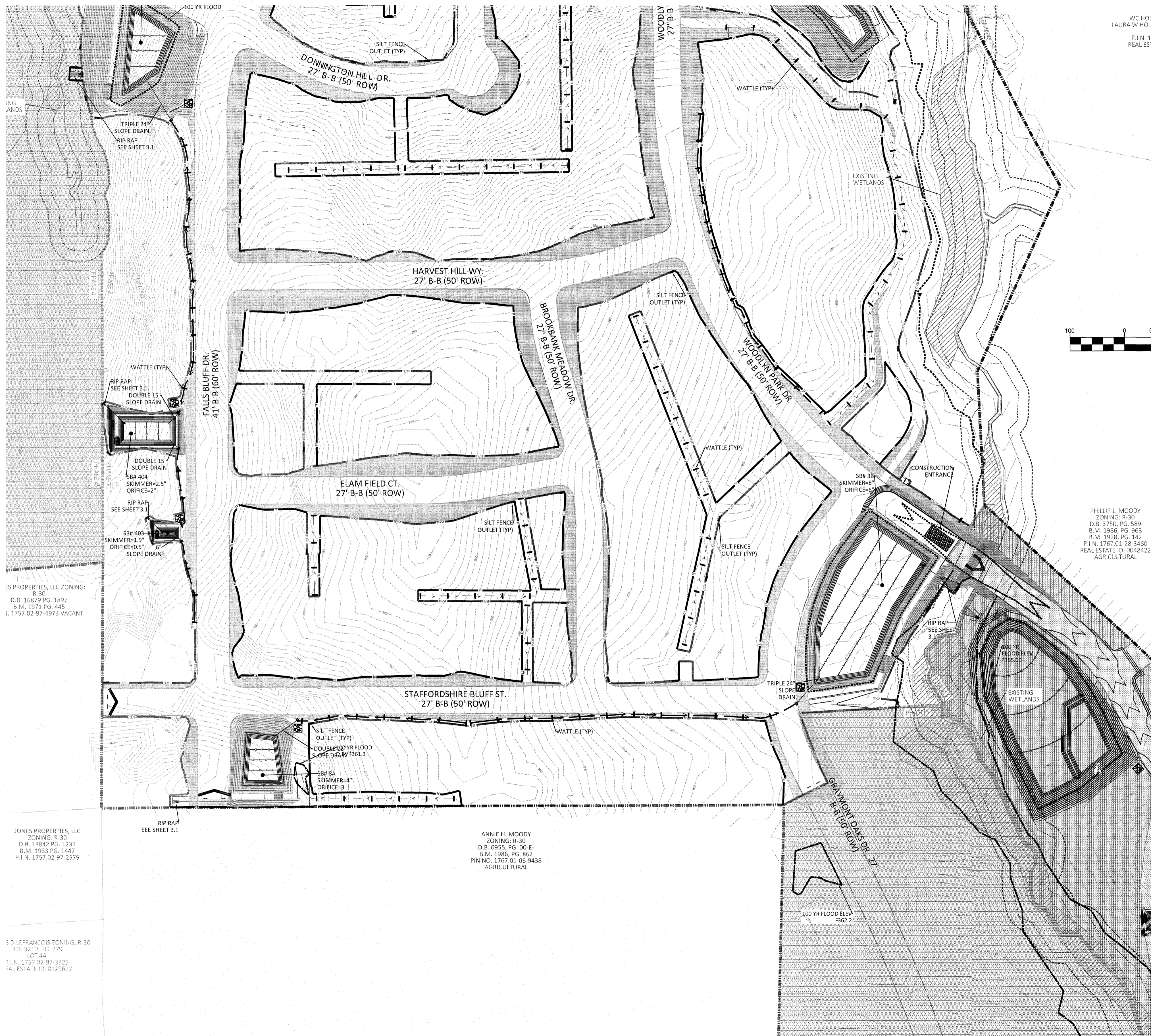
NO.	DATE	REVISION
1	7/21/2021	1ST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH

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

JOB NUMBER:	9900
CHECKED BY:	
DRAWN BY:	
DATE:	FEB 18, 2021
SHEET TITLE:	<b>PHASE 3        EROSION CONTROL        STAGE 1</b>
SHEET NO.:	<b>2.0</b>





WC HOLLIF  
LAURA W HOLLIF  
P.I.N. 176  
REAL ESTA  
VT

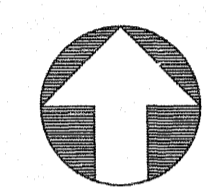
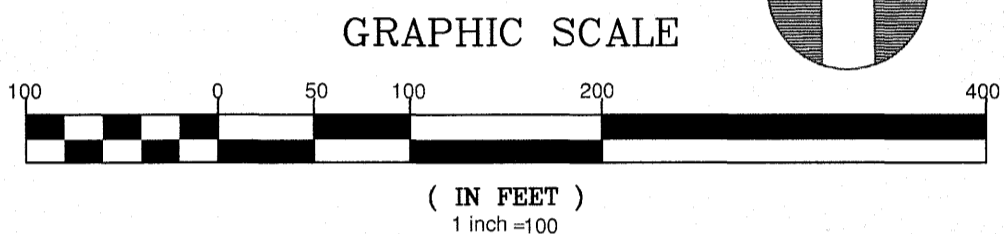
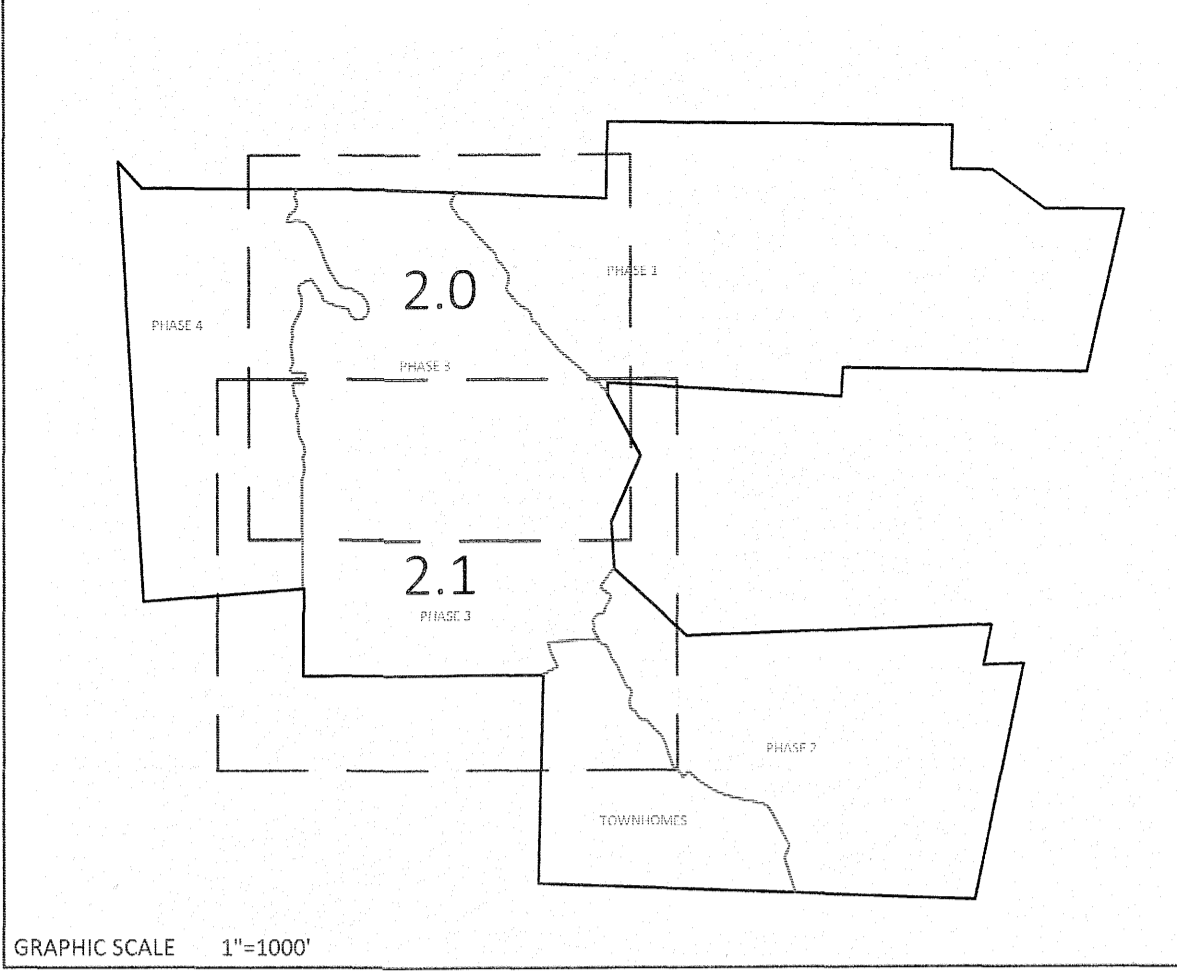
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REAL ESTATE ID: 0048422  
AGRICULTURAL

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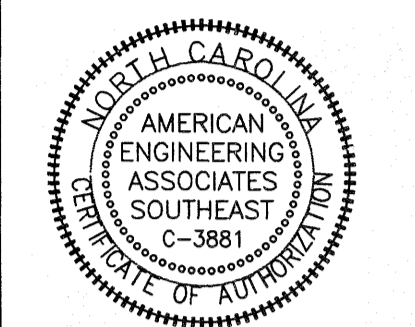
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ANNIE H. MOODY  
ZONING: R-30  
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P.I.N. 1767.01-06-9438  
AGRICULTURAL



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 LOW POINT
	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

- 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.  
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 4. SEE SHEET 3.1 FOR SEDIMENT BASIN CHART SHOWING THE SKIMMER/ORIFICE SIZES.  
 5. DIVERSION SWALE DESIGN, SEE SHEET 3.1 FOR DETAILS AND REFERENCE TABLE.  
 6. SEE SHEETS 2.2 TO 2.6 FOR SLOPE DRAIN PIPE SIZES.  
 7. SEE SHEET 3.1 FOR RIP RAP PAD SIZES.



3/17/21

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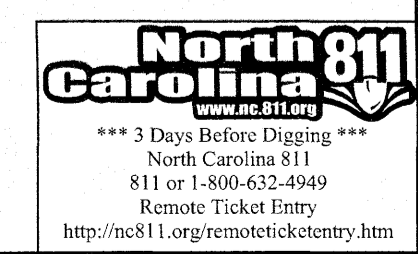
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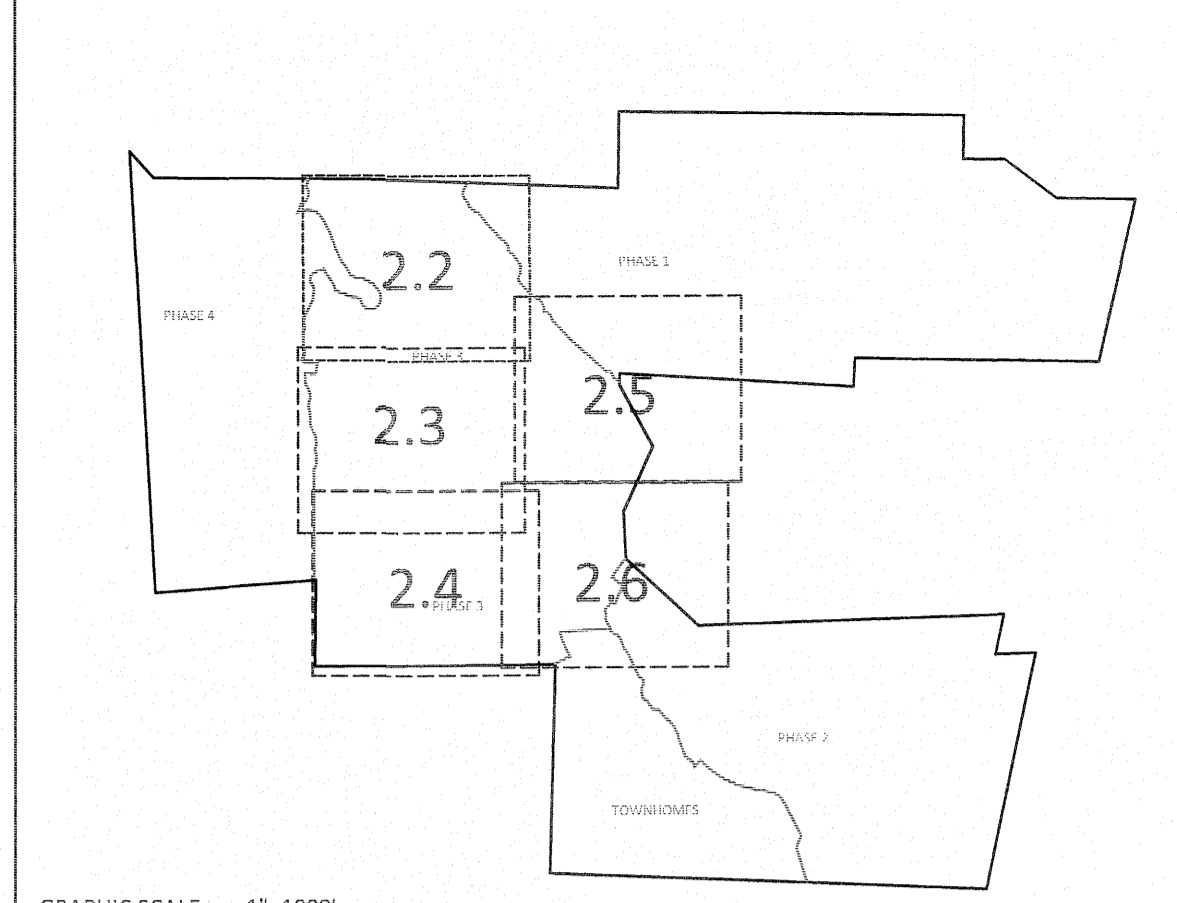
**KALAS FALLS  
 PHASE 3  
 1832 ROLESVILLE ROAD  
 WAKE COUNTY, NC**

JOB NUMBER: 9900  
 CHECKED BY:  
 DRAWN BY:  
 DATE: FEB 18, 2021

SHEET TITLE:  
**PHASE 3  
 EROSION  
 CONTROL  
 STAGE 1**

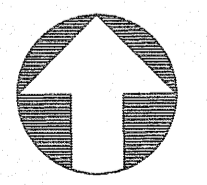
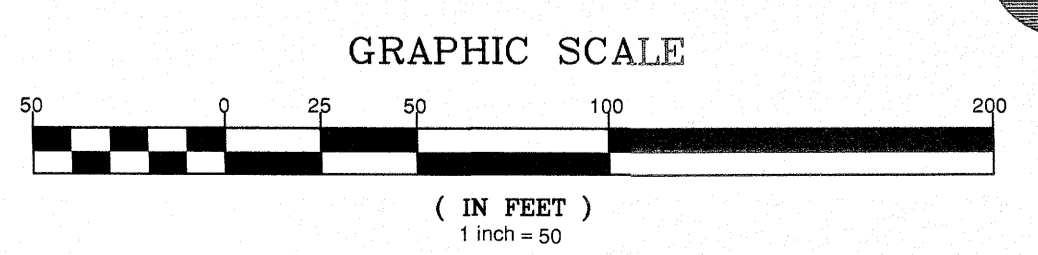
SHEET NO.:  
**2.1**





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 LOW POINT
	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 DIVERSION DITCH
	PROPOSED SWALE
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	PROPOSED YARD INLET
	PROPOSED DROP INLET
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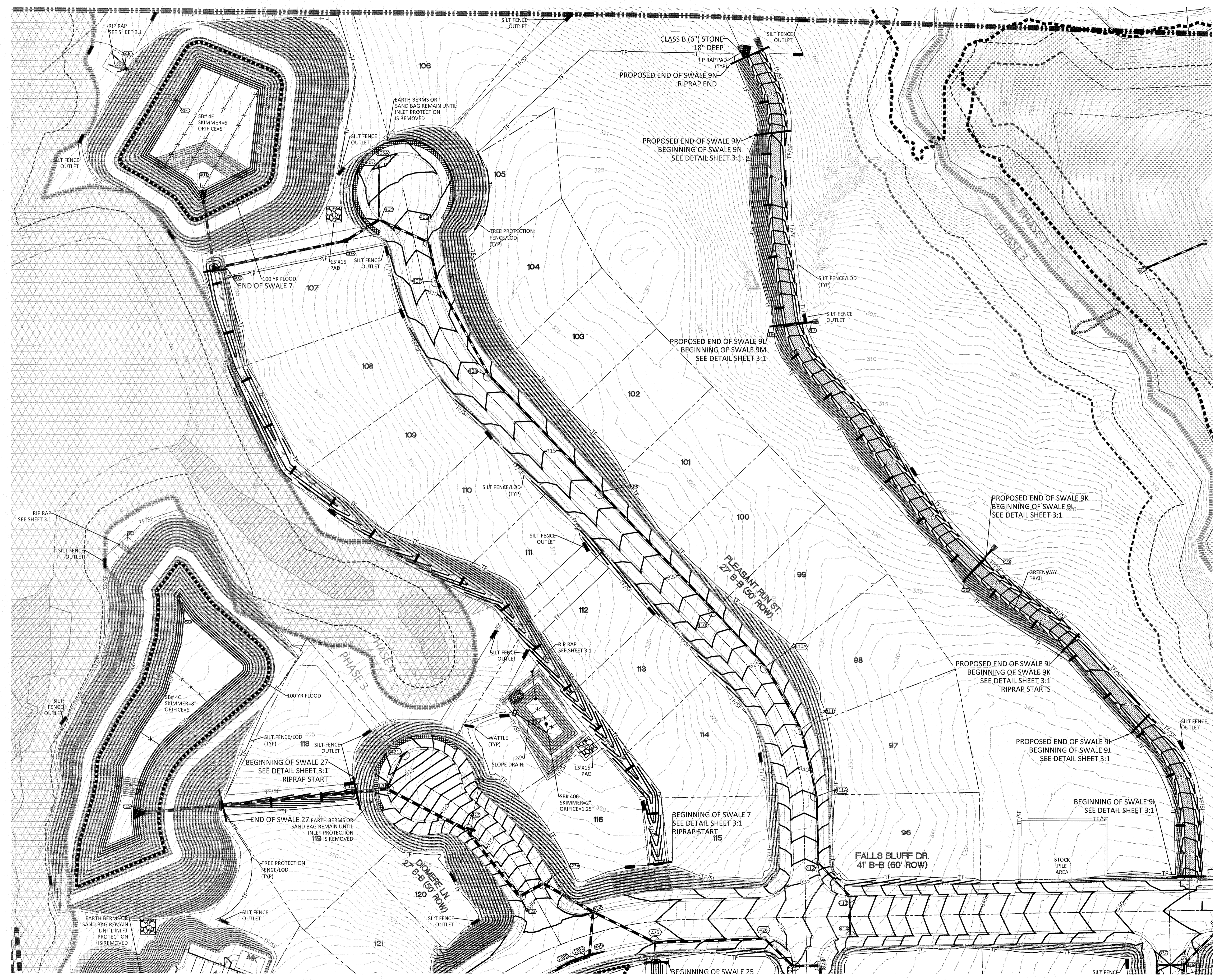
**North Carolina 811**  
Remote Ticket Entry  
811 or 1-800-632-4949  
http://nc811.org/remoteticketentry.htm

NO.	DATE	REVISION
1	7/21/2021	LIST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF HALEIGH

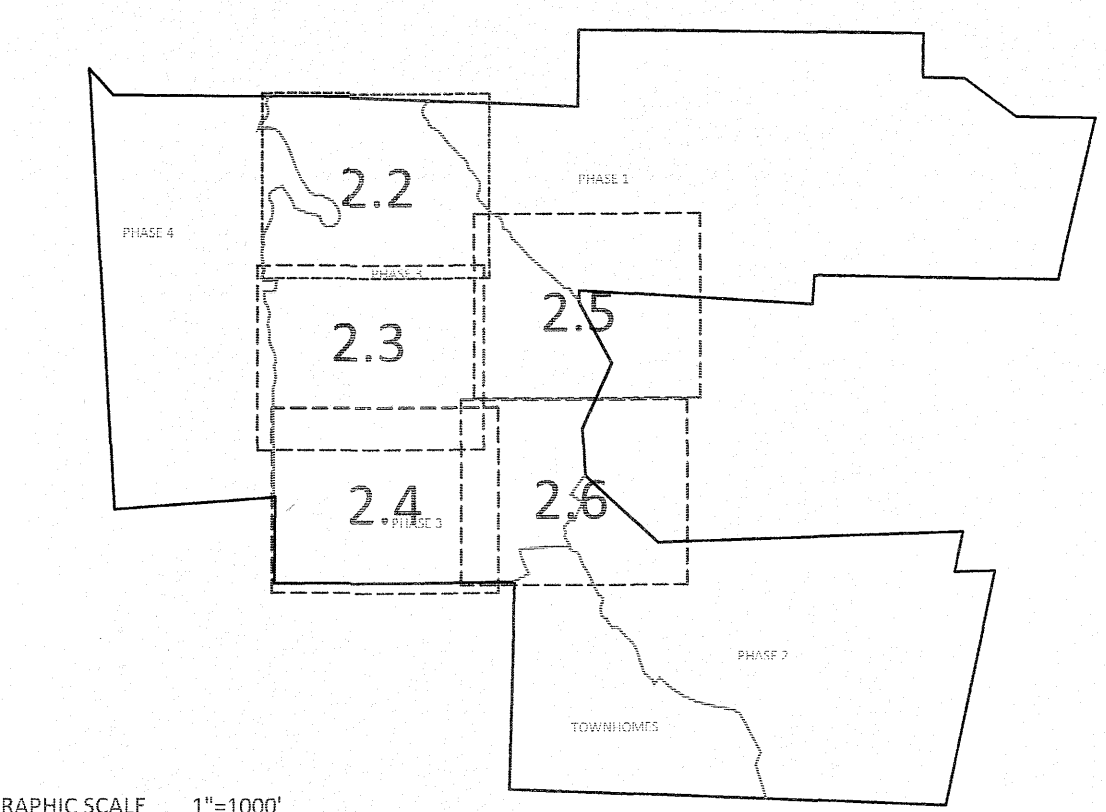
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**KALAS FALLS  
PHASE 3  
1832 ROLESVILLE ROAD  
WAKE COUNTY, NC**

JOB NUMBER:	9900
CHECKED BY:	
DRAWN BY:	
DATE:	FEB 18, 2021
SHEET TITLE:	PHASE 3 EROSION CONTROL (50 SCALE)
SHEET NO.:	2.2



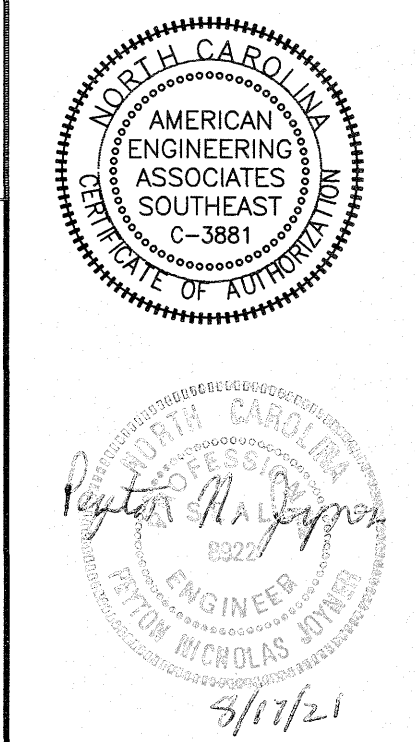
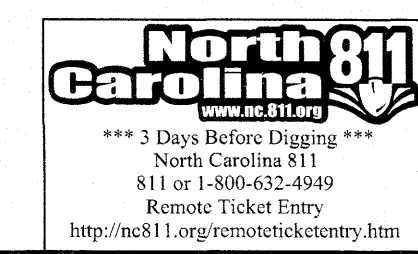
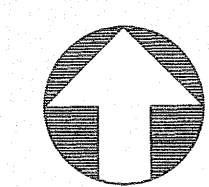
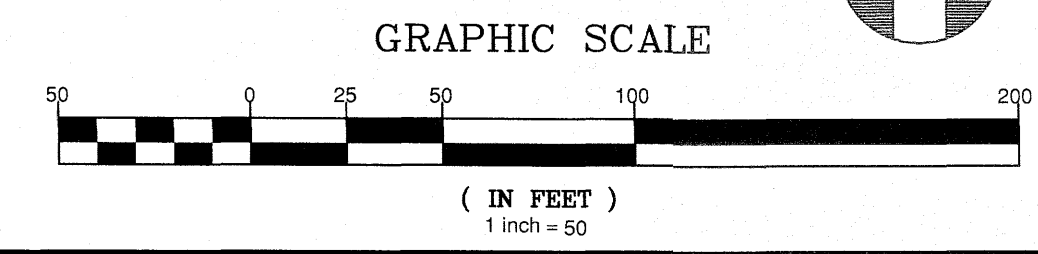
August 16, 2021  
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Erosion Control.dwg



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 LOW POINT
	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 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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  2. WATTLE/CHECK DAM ARE TO BE PLACED EVERY 3 TO 4 FT VERTICALLY.
  3. WHERE SILT FENCE IS LOCATED OUTSIDE OF TEMPORARY SILT DITCHES THE SILT FENCE WILL BE THE LIMITS OF DISTURBANCE.
  4. SEE SHEET 3.1 FOR SEDIMENT BASIN CHART SHOWING THE SKIMMER/ORIFICE SIZES.
  5. DIVERSION SWALE DESIGN, SEE SHEET 3.1 FOR DETAILS AND REFERENCE TABLE.
  6. SEE SHEETS 2.2 TO 2.6 FOR SLOPE DRAIN PIPE SIZES.
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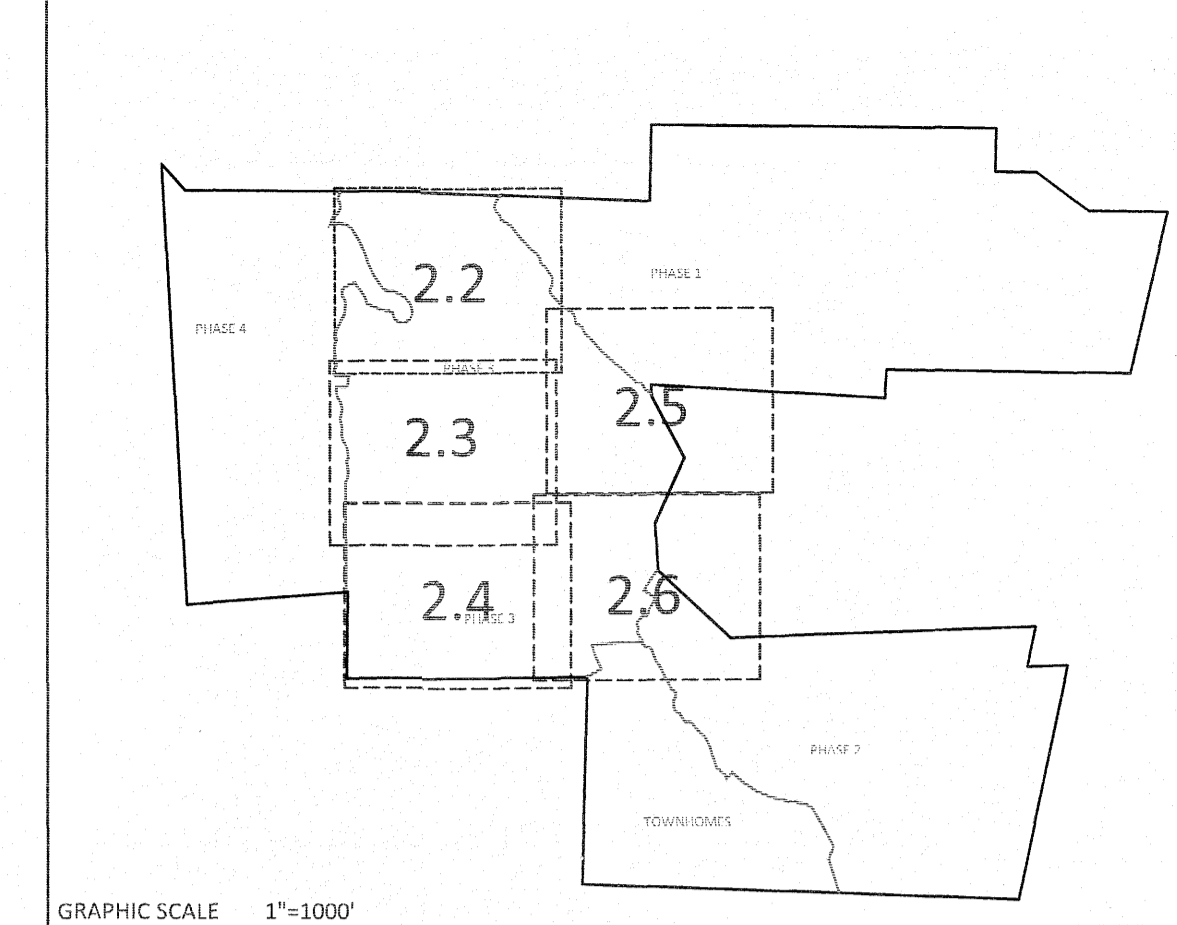
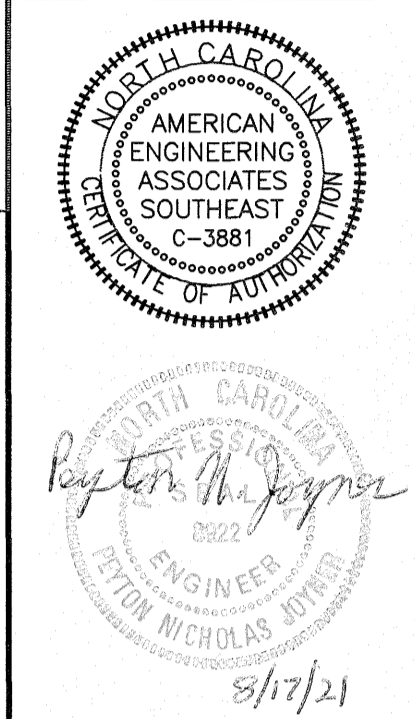
NO.	DATE	REVISION:
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**KALAS FALLS PHASE 3**  
 1822 ROLESVILLE ROAD  
 WAKE COUNTY, NC

JOB NUMBER:	9900
CHECKED BY:	
DRAWN BY:	
DATE:	FEB 18, 2021
SHEET TITLE:	<b>PHASE 3 EROSION CONTROL (50 SCALE)</b>
SHEET NO.:	<b>2.3</b>





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 LOW POINT
	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 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

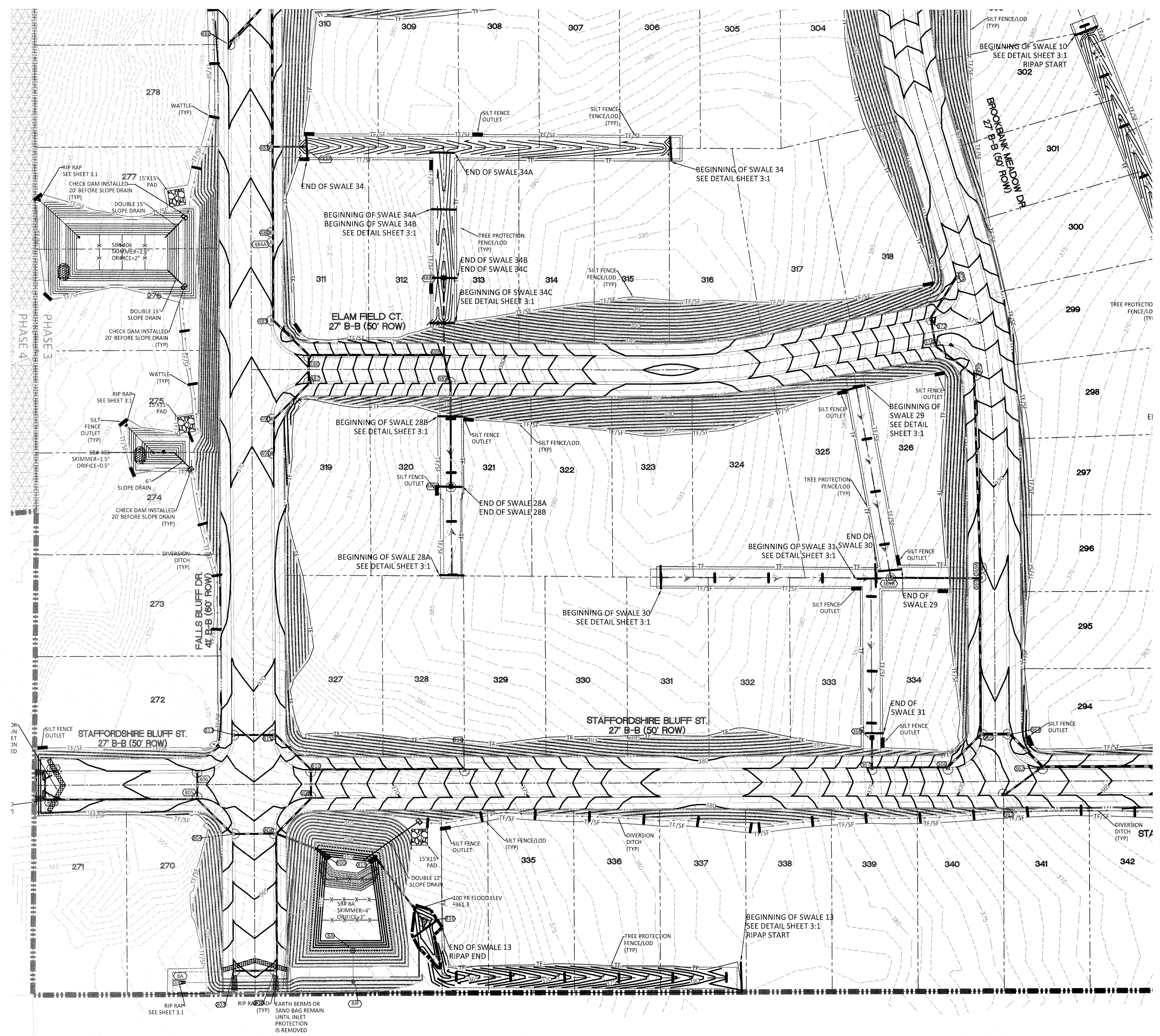
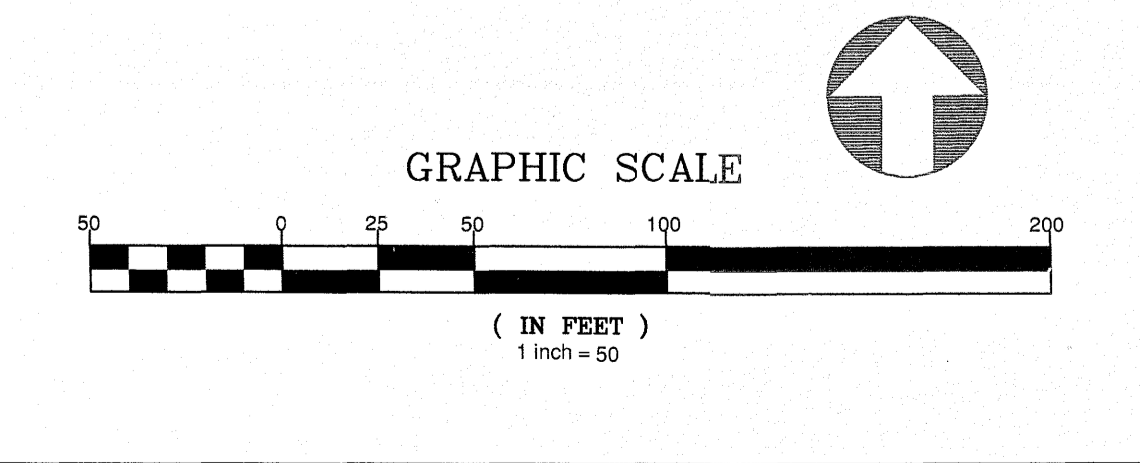
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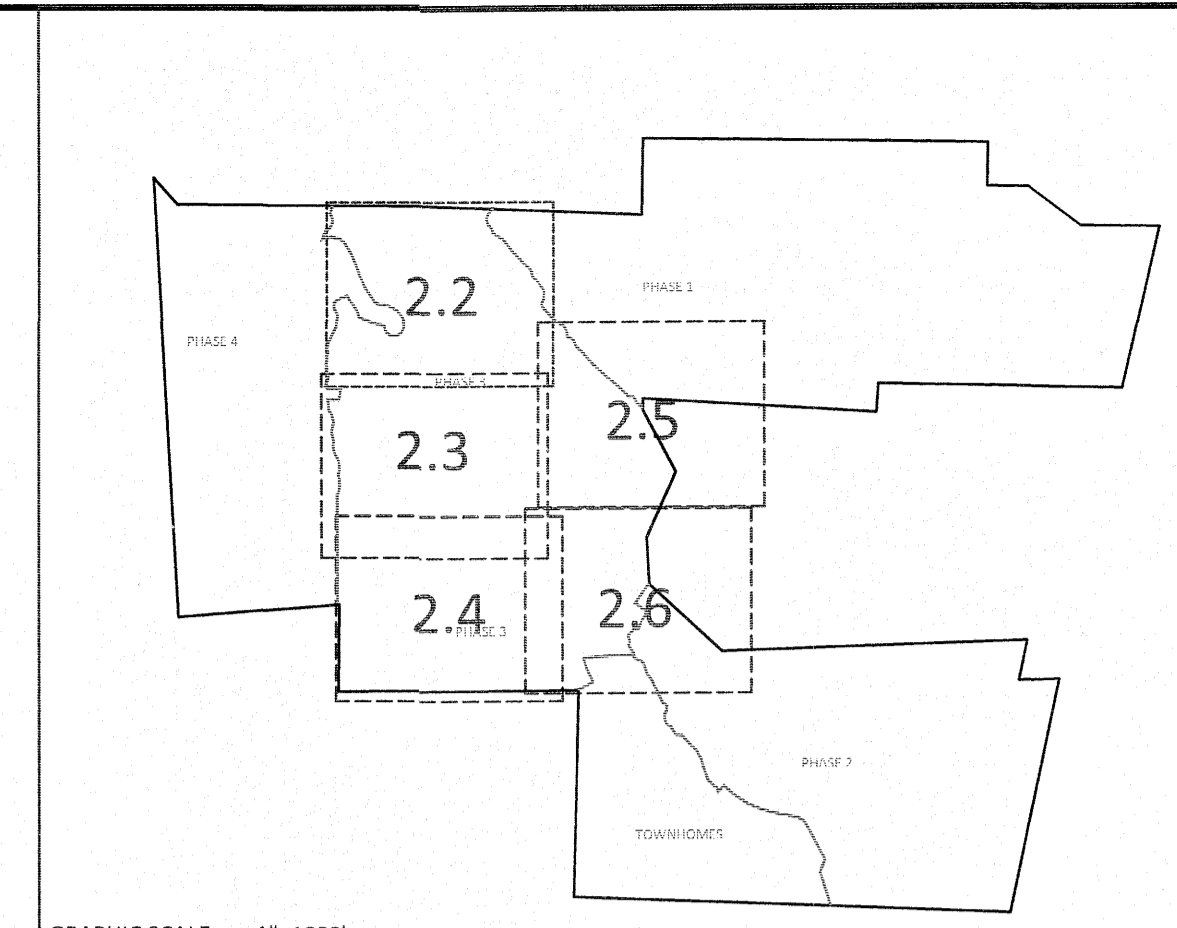
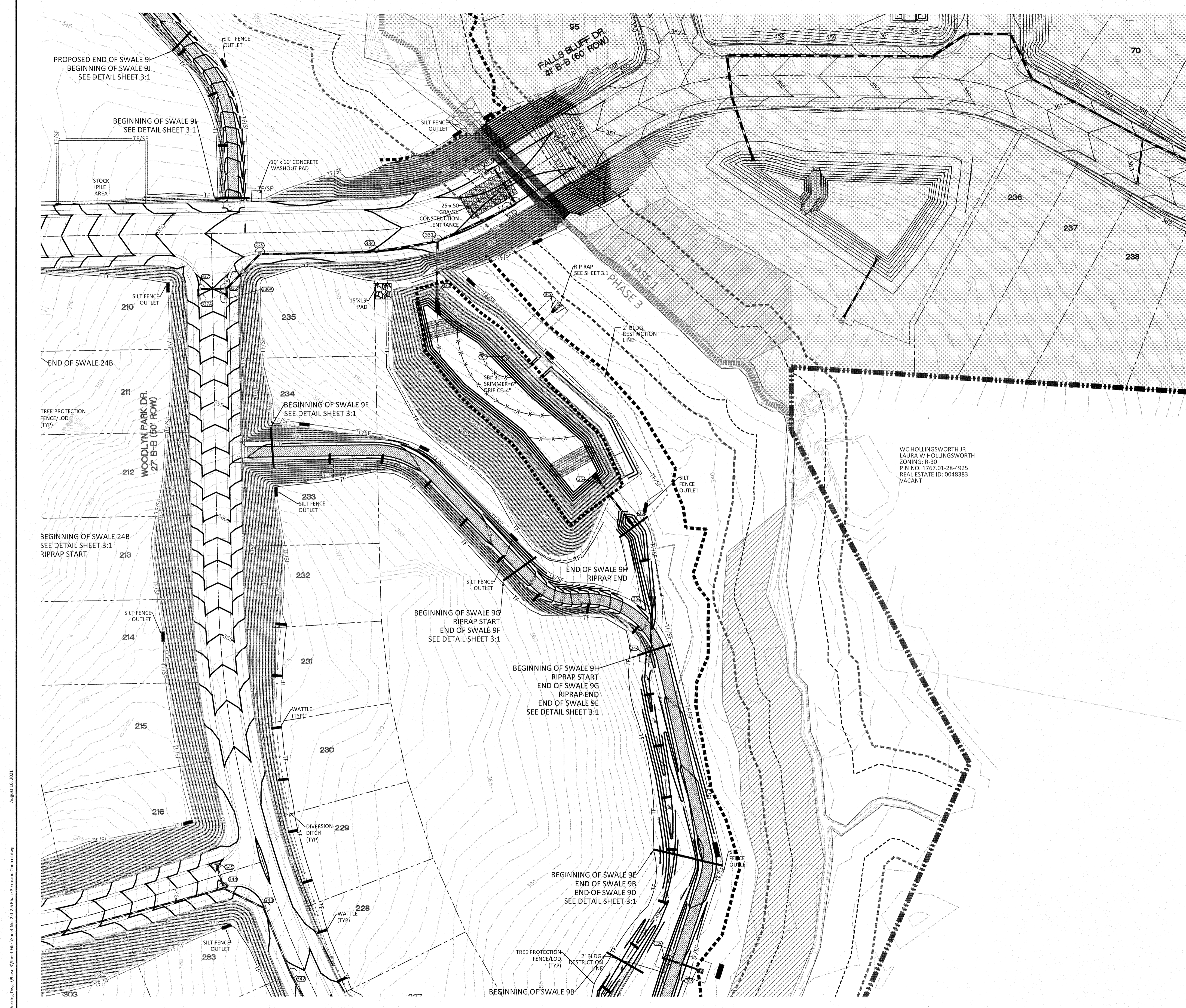
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**KALAS FALLS  
PHASE 3  
1832 ROLESVILLE ROAD  
WAKE COUNTY, NC**

JOB NUMBER: 9900  
CHECKED BY:  
DRAWN BY:  
DATE: FEB 18, 2021  
SHEET TITLE:  
**PHASE 3  
EROSION CONTROL  
(50 SCALE)**  
SHEET NO.: 2.4

- 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.
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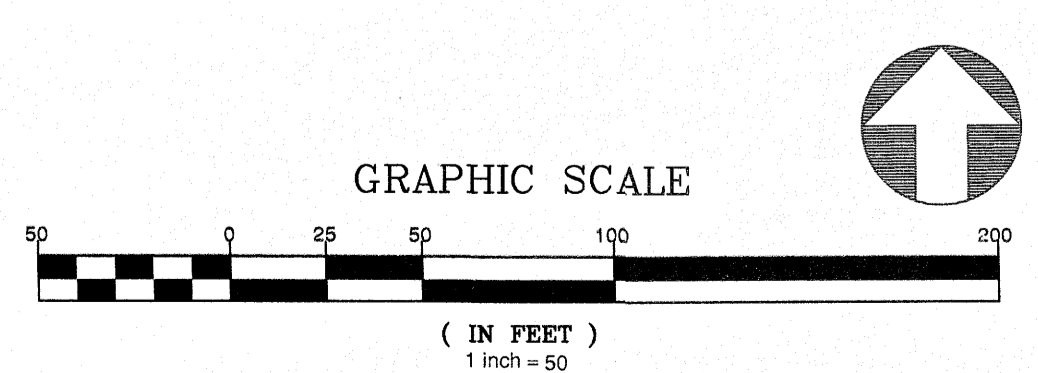




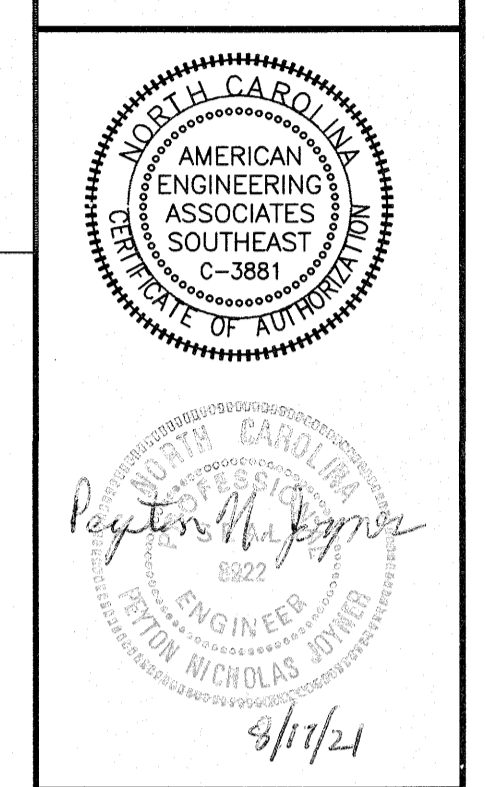
GRAPHIC SCALE 1"=1000'

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
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	PROPOSED BOC
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED GRADING
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	PROPOSED RIP RAP
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	PROPOSED CHECK DAM
	PROPOSED SF LOW POINT
	GREENWAY TRAIL HATCH
	PROPOSED AREAS FOR 7 DAY STABILIZATION
	PROPOSED EROSION CONTROL BLANKET
	PROPOSED BASIN MAINTENANCE PAD
	PROPOSED WATTLE
	PROPOSED SILT FENCE
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	PROPOSED CATCH BASIN
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**AMERICAN Engineering**  
 American Engineering Associates - Southeast, P.A.  
 4020 Westchase Boulevard, Suite 450  
 Raleigh, NC 27607  
 919-469-1101

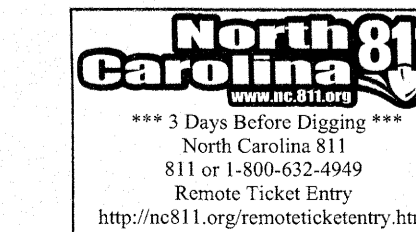


NO.	DATE	REVISION:
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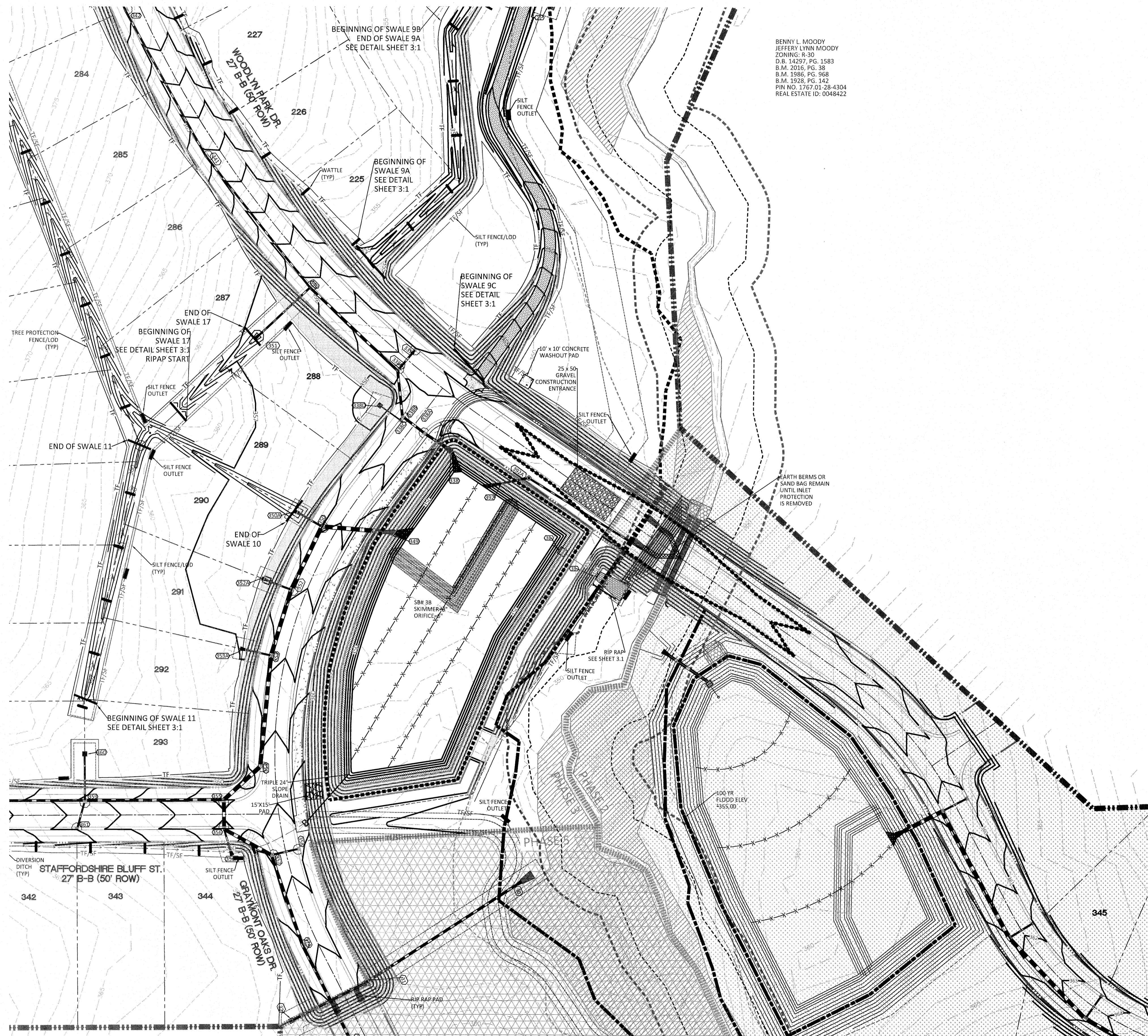
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**KALAS FALLS PHASE 3**  
 1832 ROLESVILLE ROAD  
 WAKE COUNTY, NC

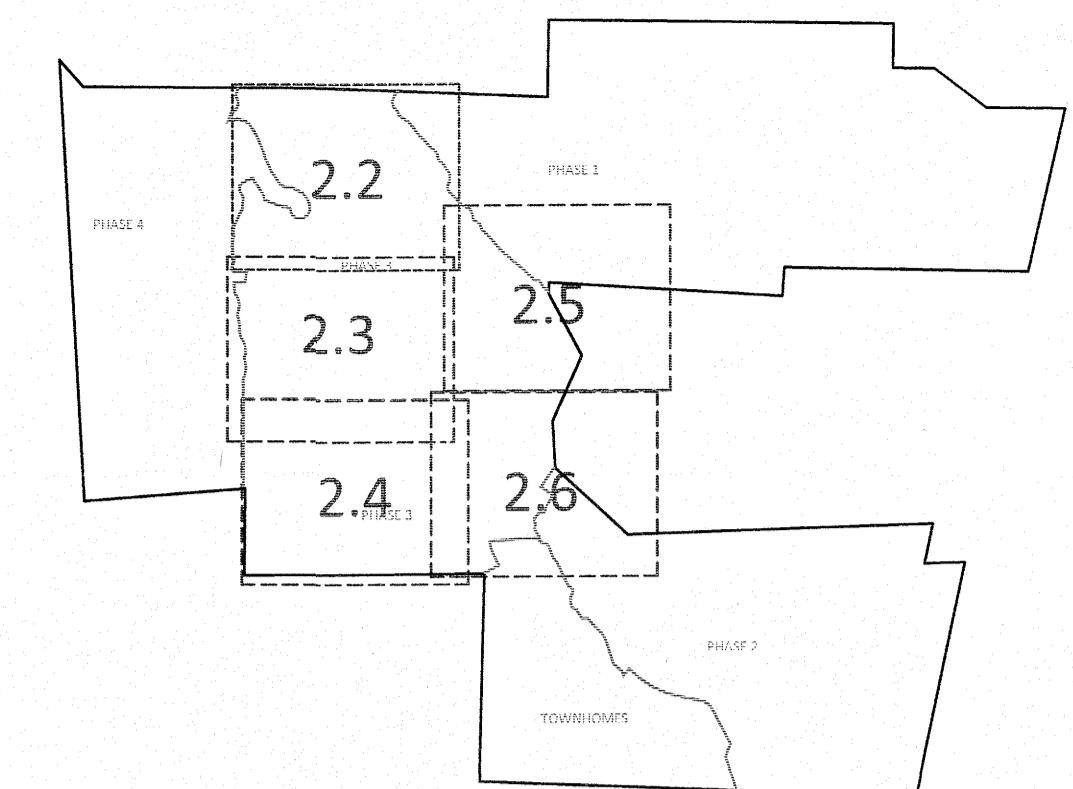
JOB NUMBER:	9900
CHECKED BY:	
DRAWN BY:	
DATE:	FEB 18, 2021
SHEET TITLE:	<b>PHASE 3 EROSION CONTROL (50 SCALE)</b>
SHEET NO.:	2.5



August 16, 2021  
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BENNY L. MOODY  
JEFFERY LYNN WOODY  
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. 3767-01-28-4304  
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 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 LOW POINT
	GREENWAY TRAIL HATCH
	PROPOSED AREAS FOR 7 DAY STABILIZATION
	PROPOSED EROSION CONTROL BLANKET
	PROPOSED BASIN MAINTENANCE PAD
	PROPOSED WATTLE
	PROPOSED SILTY FENCE
	PROPOSED TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
	PROPOSED SILTY 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. WHERE SILTY FENCE IS LOCATED OUTSIDE OF TEMPORARY SILTY DITCHES THE SILTY FENCE WILL BE THE LIMITS OF DISTURBANCE.
  4. SEE SHEET 3.1 FOR SEDIMENT BASIN CHART SHOWING THE SKIMMER/ORIFICE SIZES.
  5. DIVERSION SWALE DESIGN, SEE SHEET 3.1 FOR DETAILS AND REFERENCE TABLE.
  6. SEE SHEETS 2.2 TO 2.6 FOR SLOPE DRAIN PIPE SIZES.
  7. SEE SHEET 3.1 FOR RIP RAP PAD SIZES.

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



*Jeffery L. Moody*  
PROFESSIONAL ENGINEER  
NICHOLAS DOWD  
3/17/24

NO.	DATE	REVISION
1	7/21/2021	1ST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH

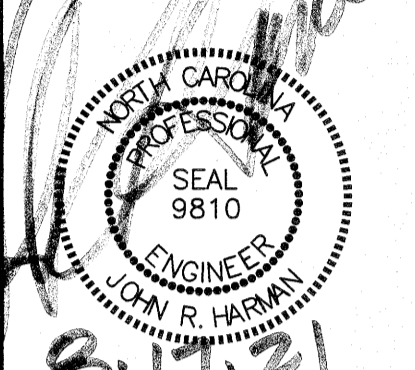
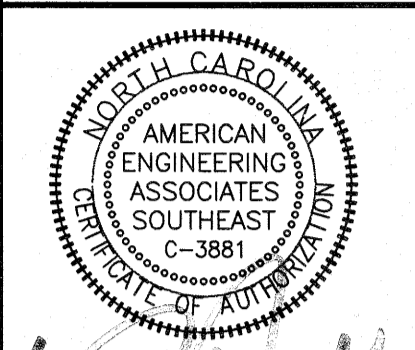
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**KALAS FALLS  
PHASE 3  
1832 ROLESVILLE ROAD  
WAKE COUNTY, NC**

JOB NUMBER: 9900  
CHECKED BY:  
DRAWN BY:  
DATE: FEB 18, 2021  
SHEET TITLE:  
**PHASE 3  
EROSION CONTROL  
(50 SCALE)**  
SHEET NO.: 2.6



August 16, 2021  
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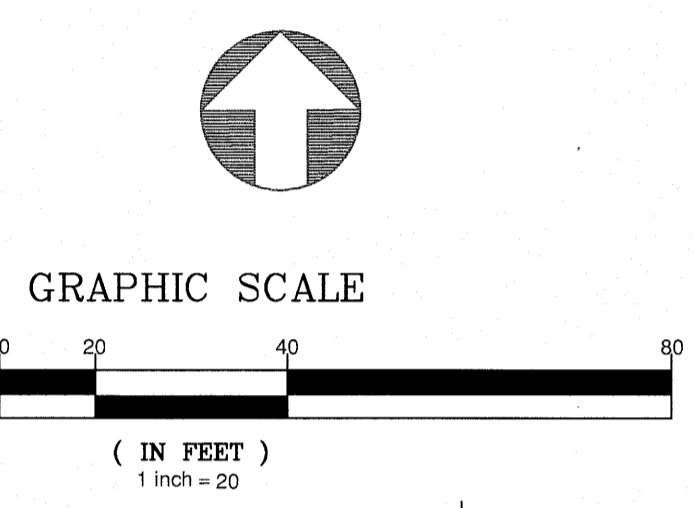
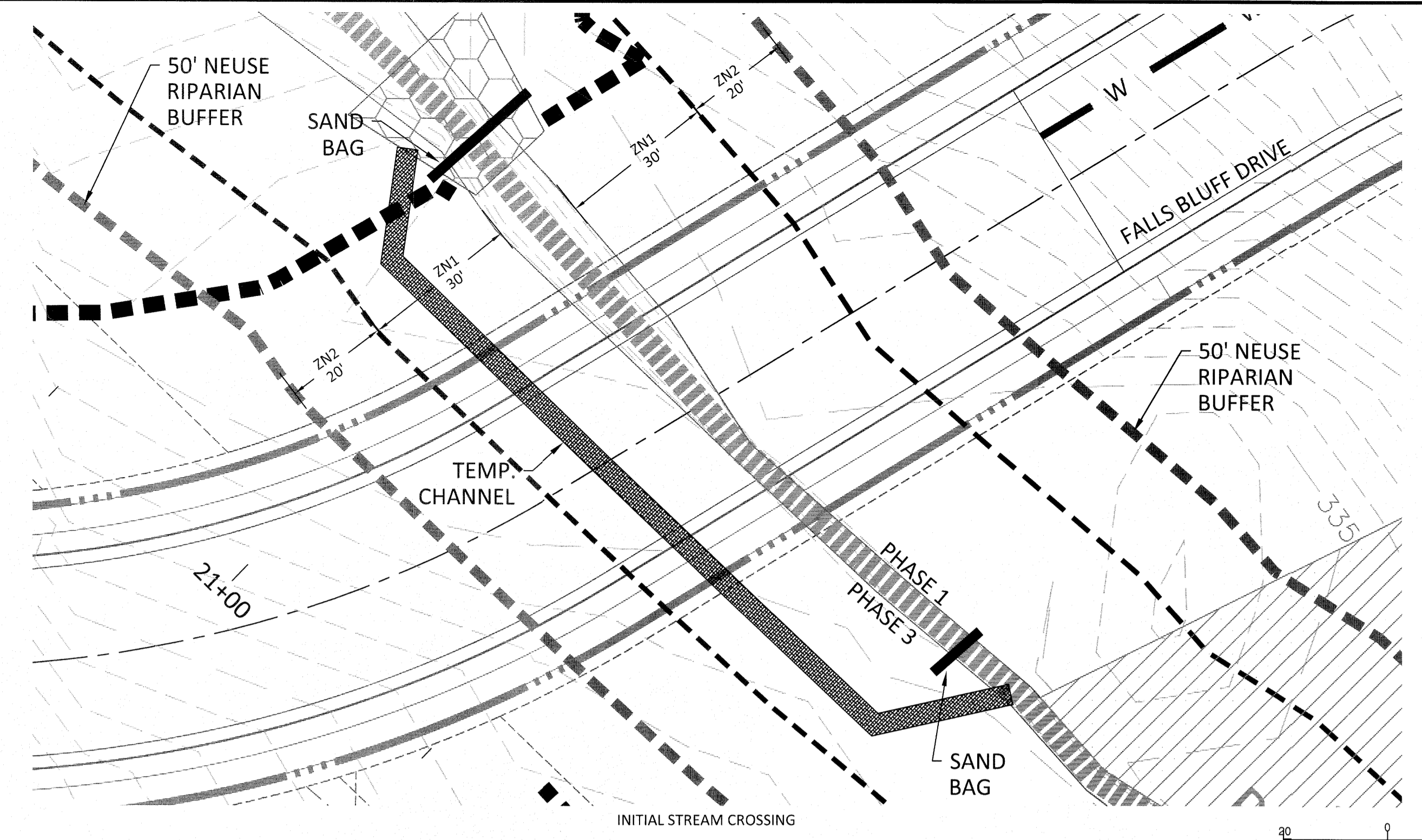
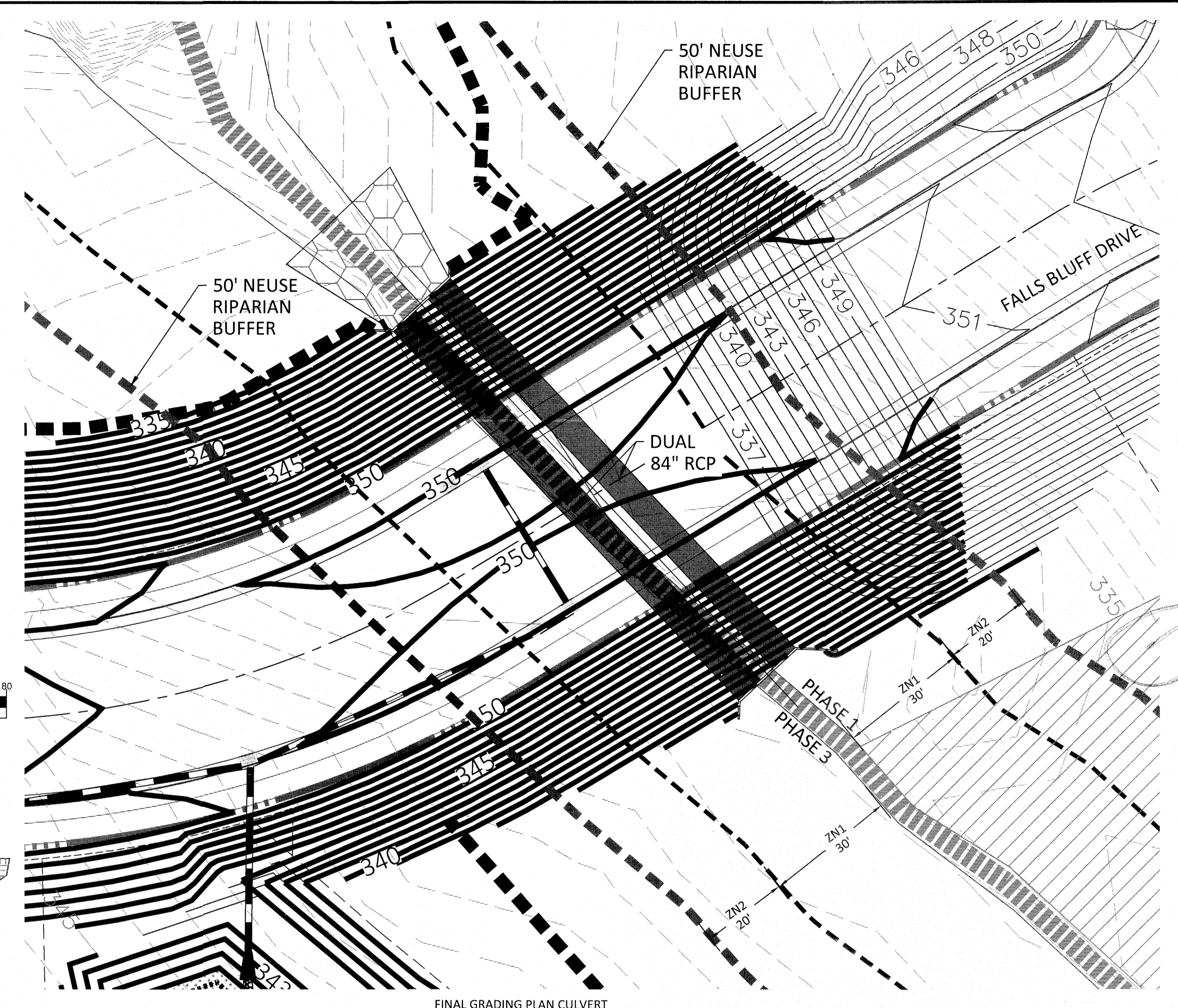


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REVISION:	1ST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH		

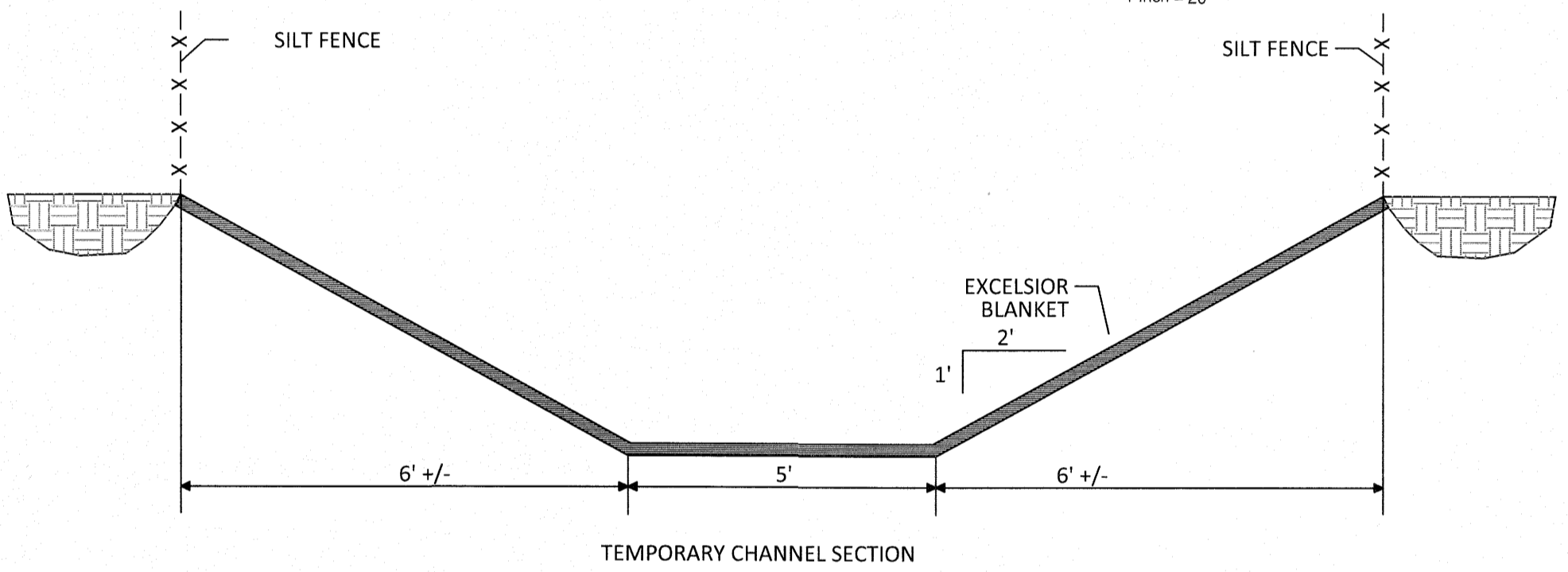
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**KALAS FALLS PHASE 3**  
 1832 ROLESVILLE ROAD  
 WAKE COUNTY, NC

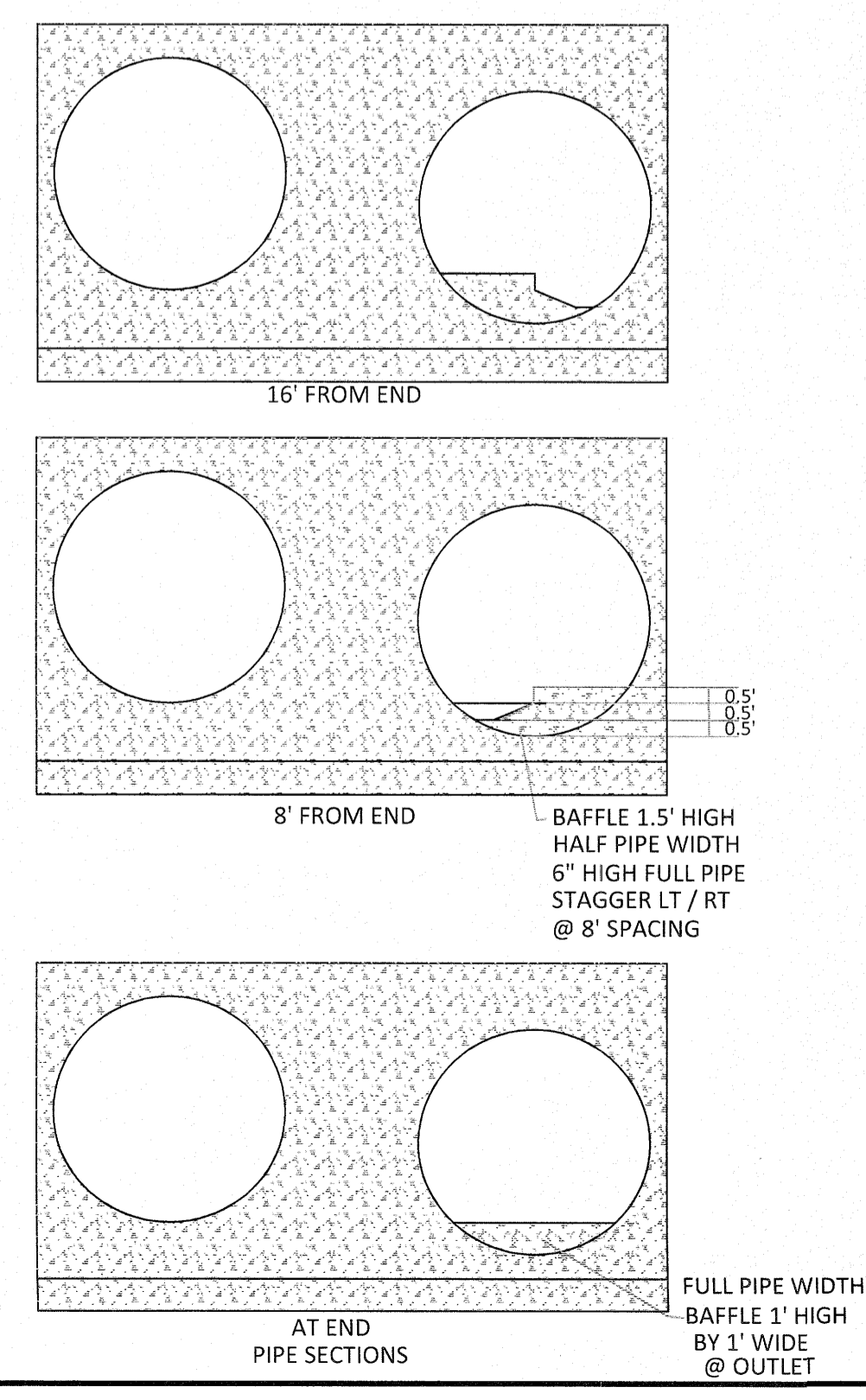
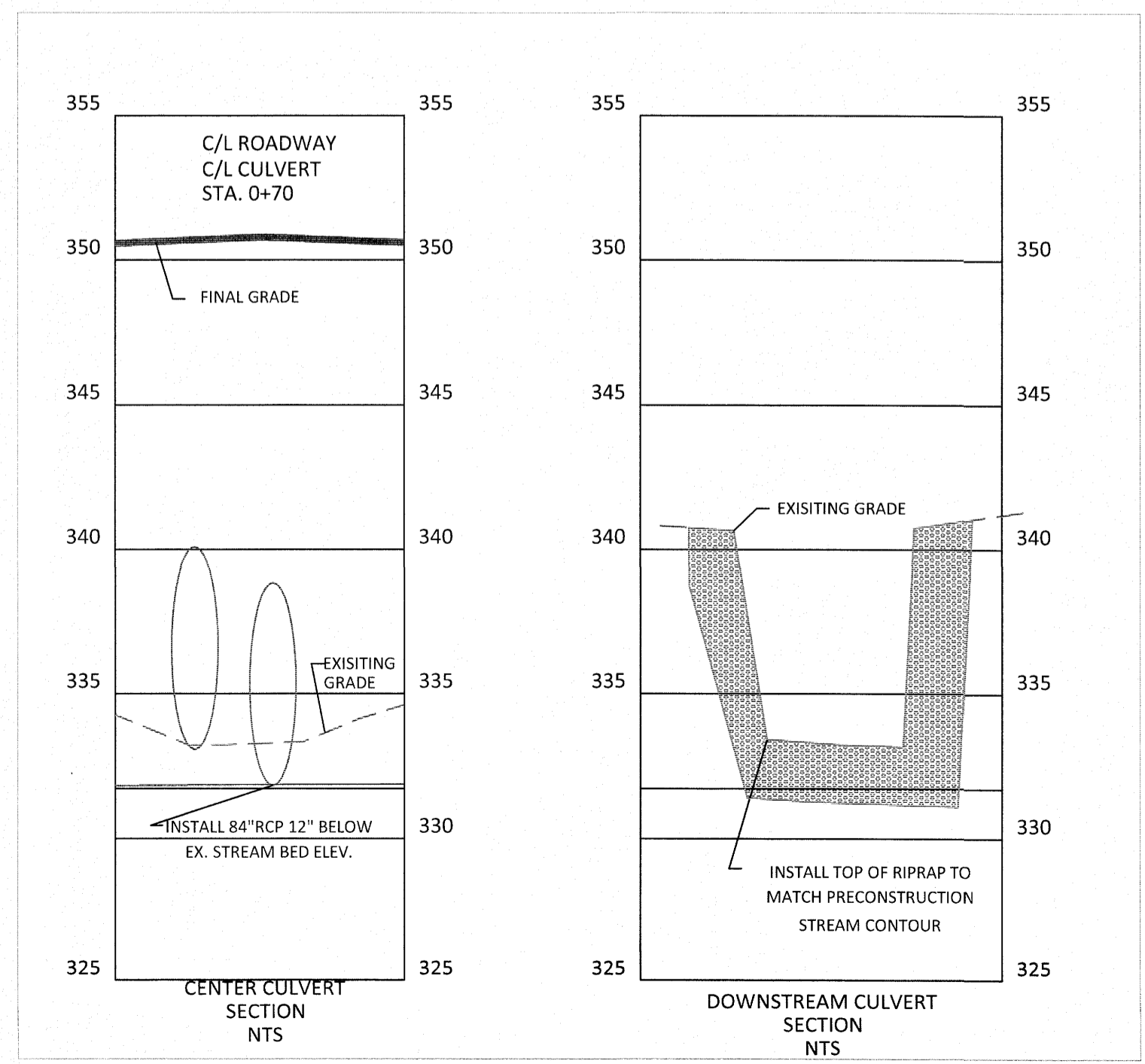
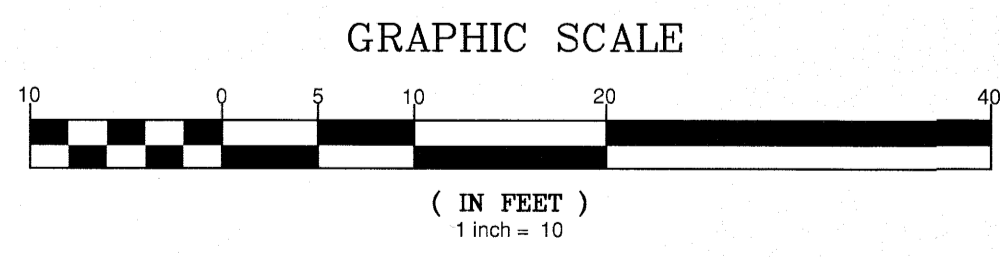
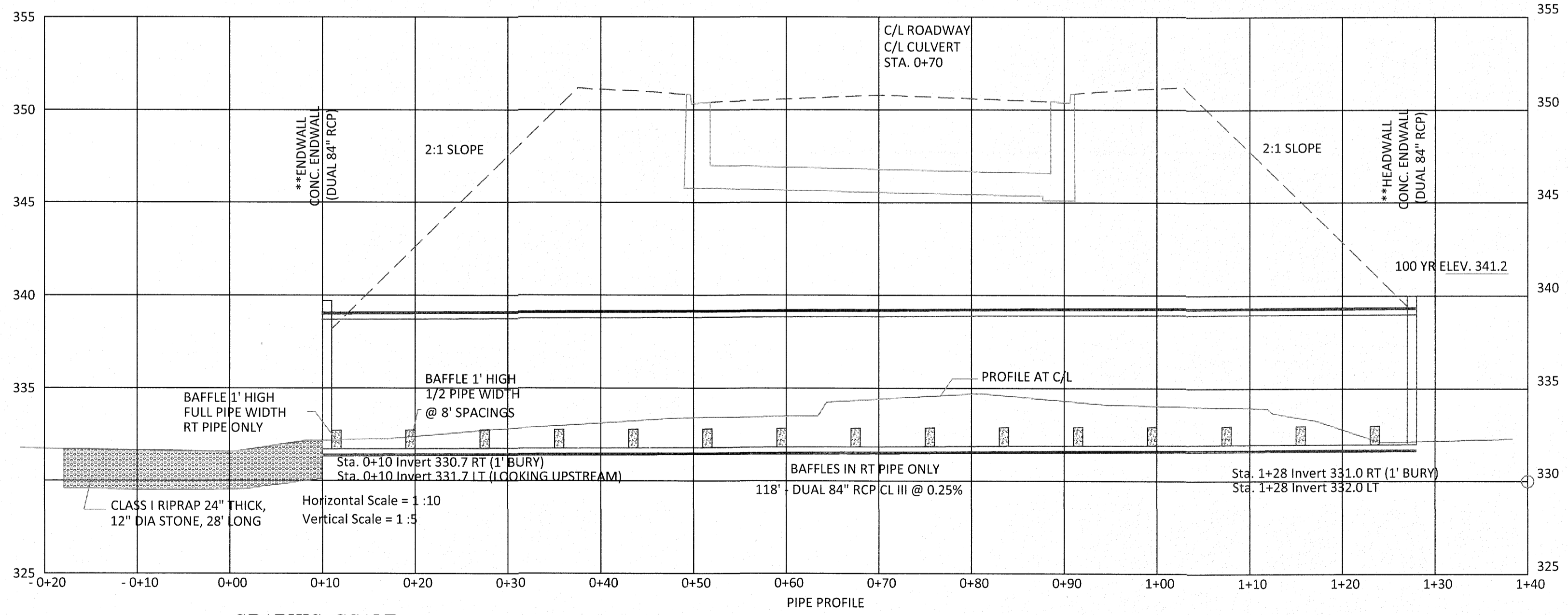
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 DATE: FEB 18, 2021  
 SHEET TITLE:  
**CULVERT CROSSING ON FALLS BLUFF DR**  
 SHEET NO.: 2.7



- SEQUENCE FOR 84" RCP CULVERT CROSSING**
1. INSTALL TREE PROTECTION FENCING AND SILT FENCE AS SHOWN ON THE PLANS. WORK OUTSIDE THE FENCED AREA IS IN VIOLATION OF THE NCDEQ PERMIT.
  2. INSTALL TEMPORARY CHANNEL CROSSING AND BYPASS CHANNEL. SEE DETAIL.
  3. UNDERCUT THE PROPOSED CULVERT AREA TO FIRM MATERIAL AS DIRECTED BY GEOTECH. UNDERCUT AREA OF ROADWAY FILL WEST OF CULVERT CONCURRENTLY. INSTALL 84" PIPE AS PER PLAN.
  4. INSTALL ENDWALLS AND BACKFILL THE PIPE AS PER NCDOT SPECIFICATIONS. ENDWALLS SHALL BE CAST IN PLACE OR PRECAST. CONTRACTOR TO SUPPLY SEALED DRAWINGS OF ENDWALL DESIGN.
  5. REMOVE TEMPORARY STREAM CROSSING AND UNDERCUT ROADWAY FILL AREA EAST OF THE CULVERT CROSSING.
  6. GRADE THE SLOPES AS SHOWN ON THE PLAN. SILT FENCE SHALL BE INSTALLED AT THE TOE OF THE SLOPE AND A SECOND ROW AT 8' VERTICAL HEIGHT. INSTALL MATTING BETWEEN SILT FENCE ROWS. PROVIDE SILT FENCE OUTLETS AT 150' MAXIMUM SPACING. STAGGER SILT FENCE OUTLETS 25' WHERE NECESSARY.
  7. STABILIZE THE SLOPES AS PER THE PLANS WITHIN 7 DAYS AFTER CONSTRUCTION.



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



August 12, 2021  
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 Working Draw Phase 3 Sheet 2.7.dwg  
 August 12, 2021





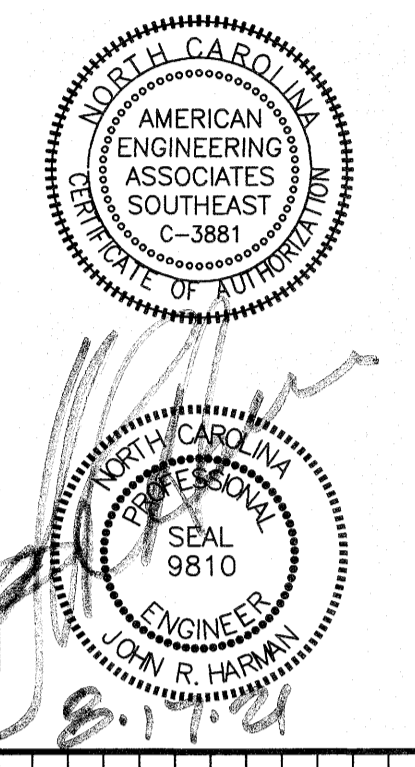
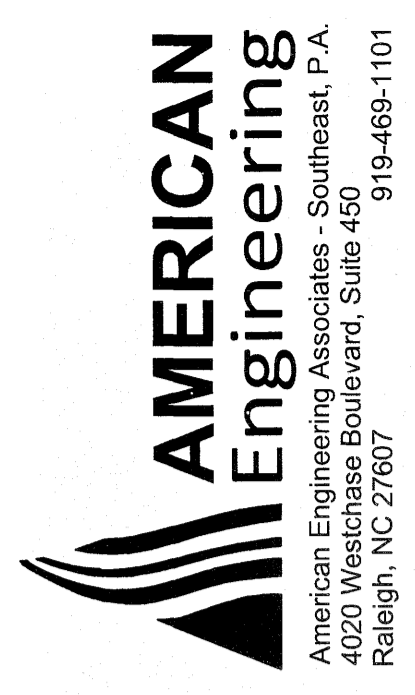
**PROPERTY INFORMATION:**

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



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
	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: 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.

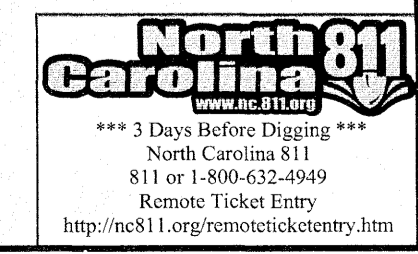
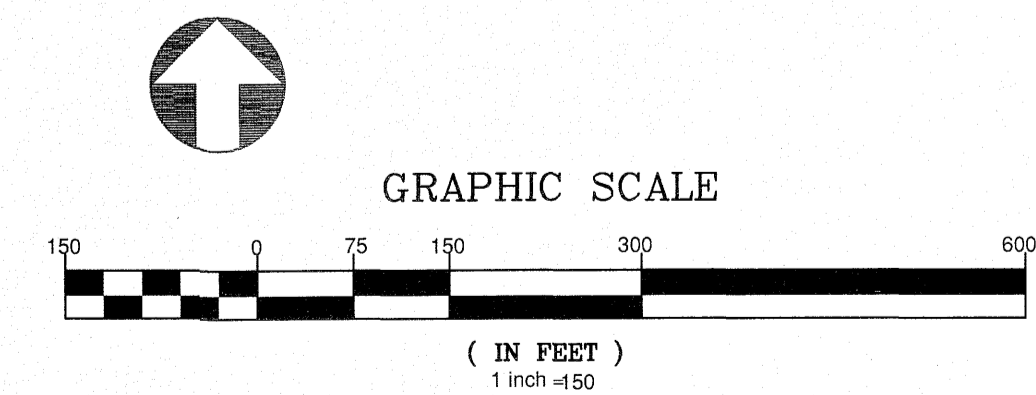


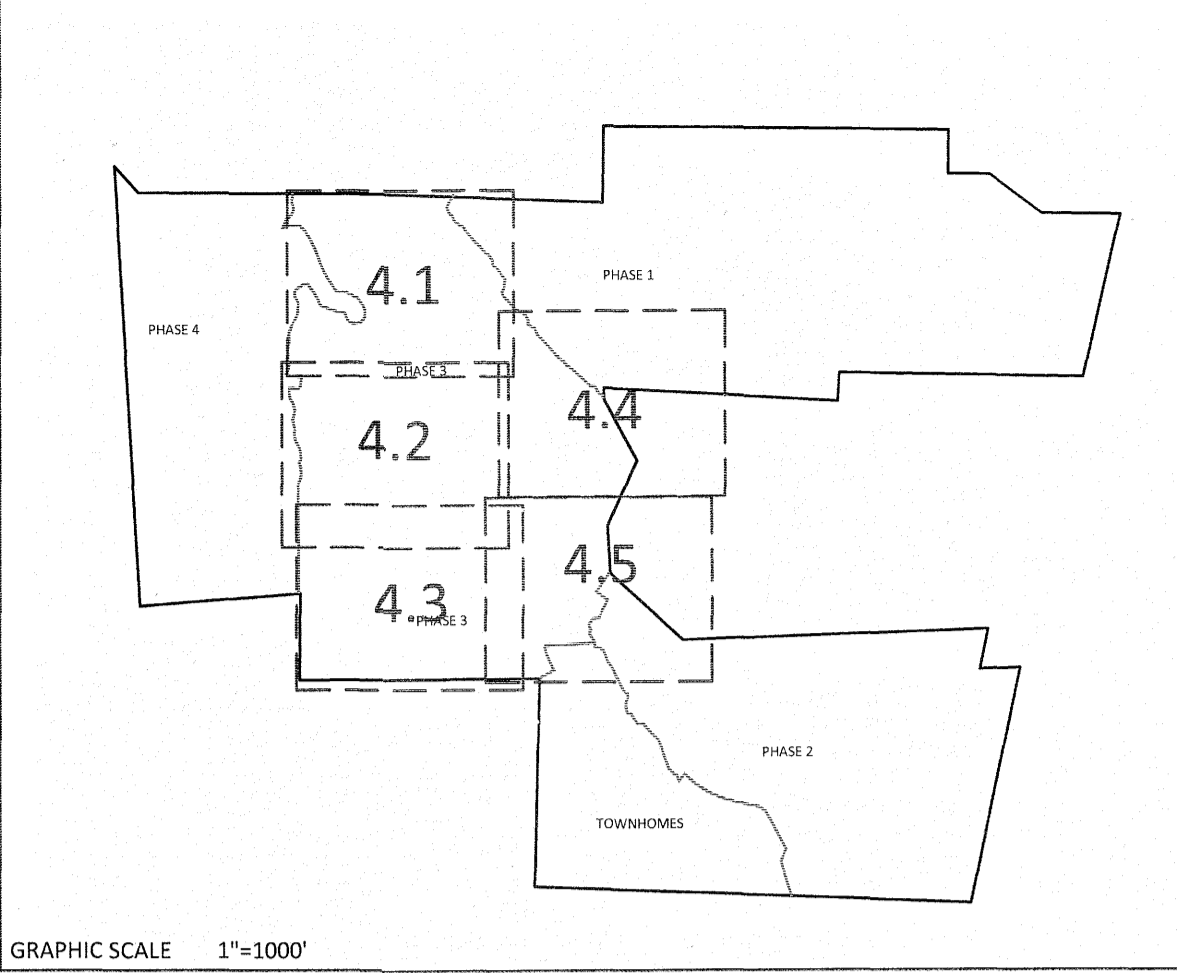
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**KALAS FALLS  
 PHASE 3  
 1832 ROLESVILLE ROAD  
 WAKE COUNTY, NC**

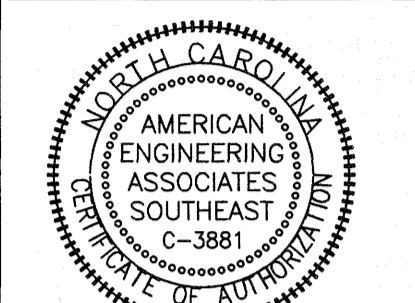
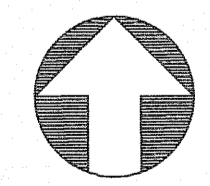
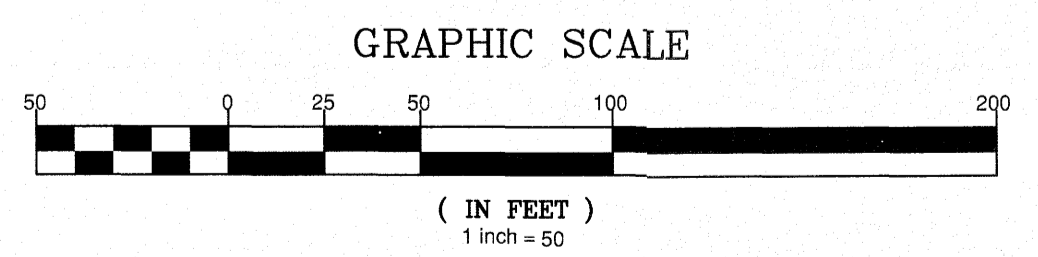
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CHECKED BY:	
DRAWN BY:	
DATE:	FEB 18, 2021
SHEET TITLE:	<b>PHASE 3 GRADING &amp; DRAINAGE</b>
SHEET NO.:	<b>4.0</b>





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GRADING LEGEND	
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	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' RIPIARIAN BUFFER
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	PROPOSED SWALE (AT TIME OF LOT GRADING)



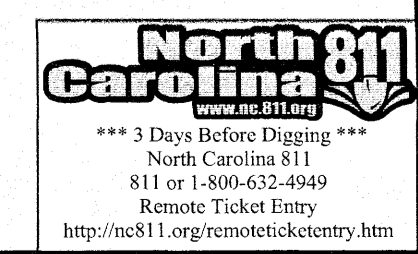
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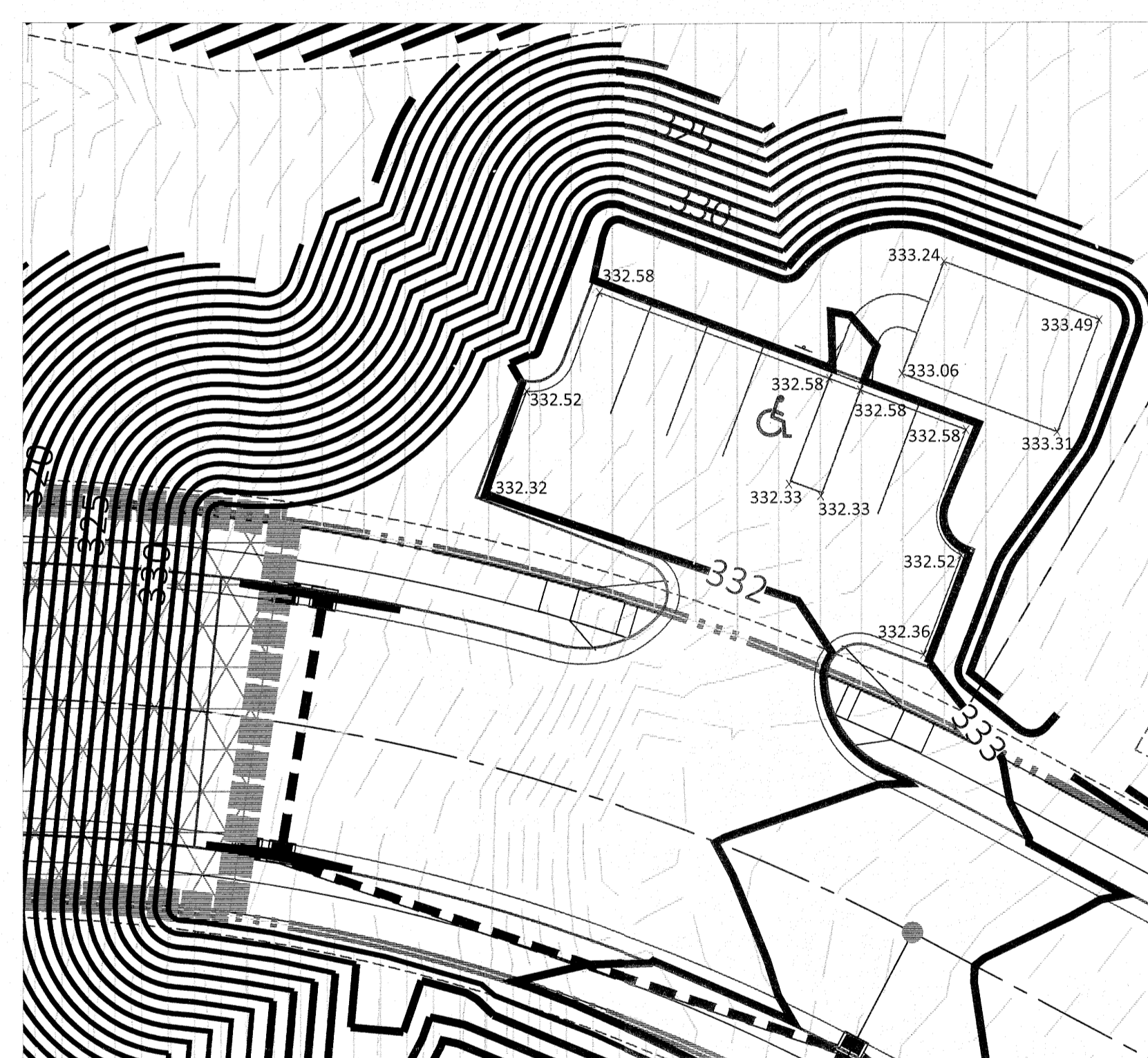
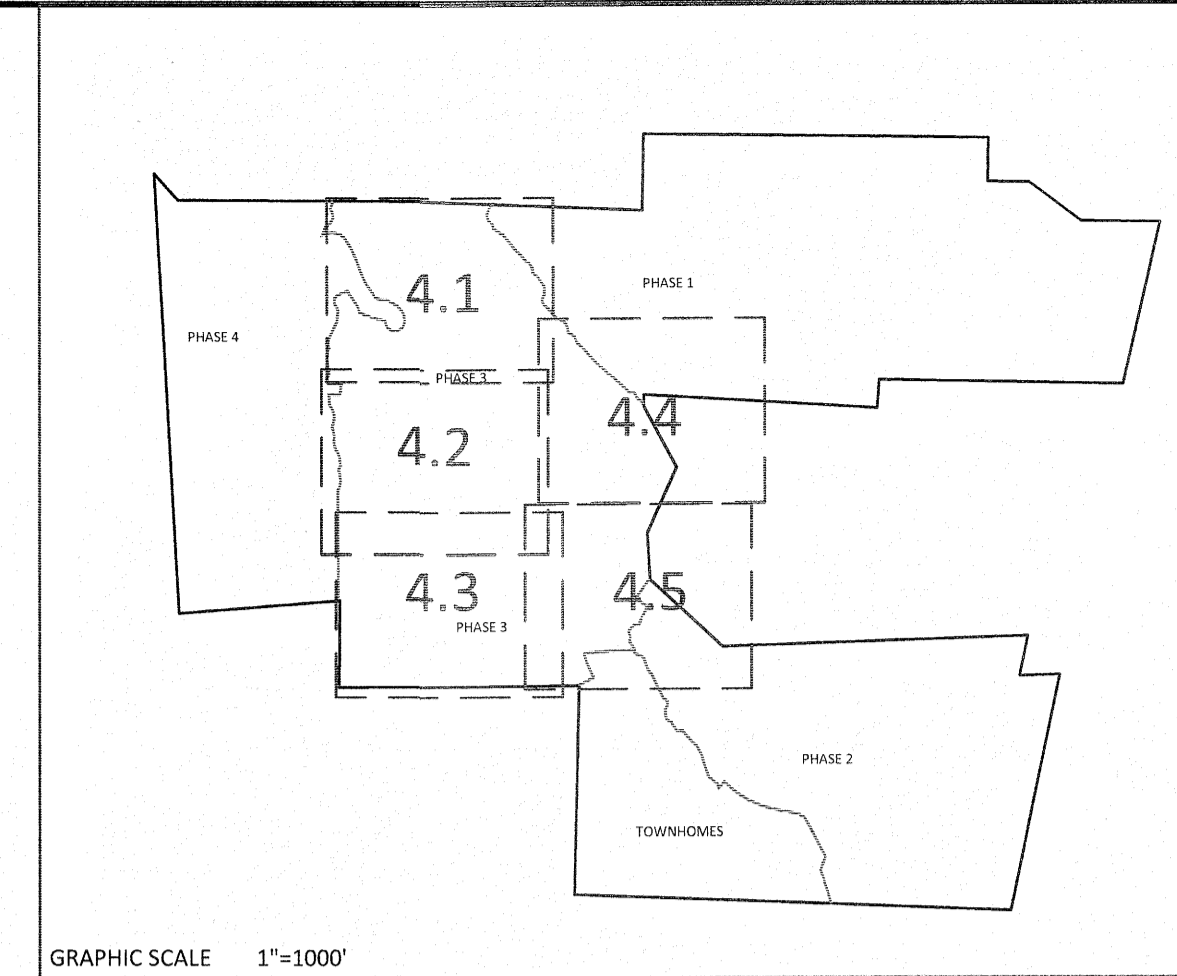
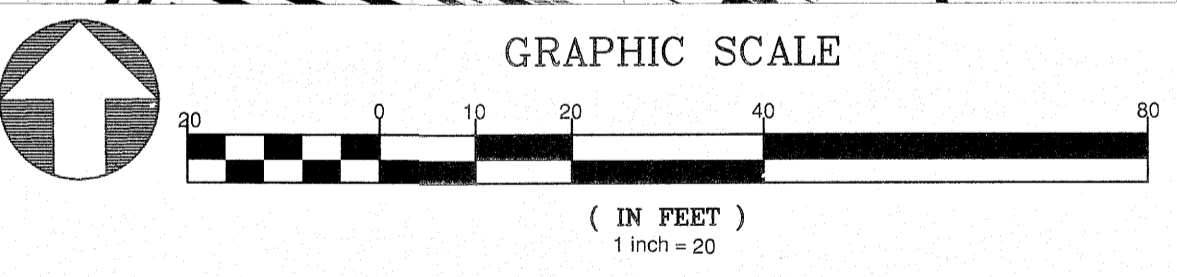
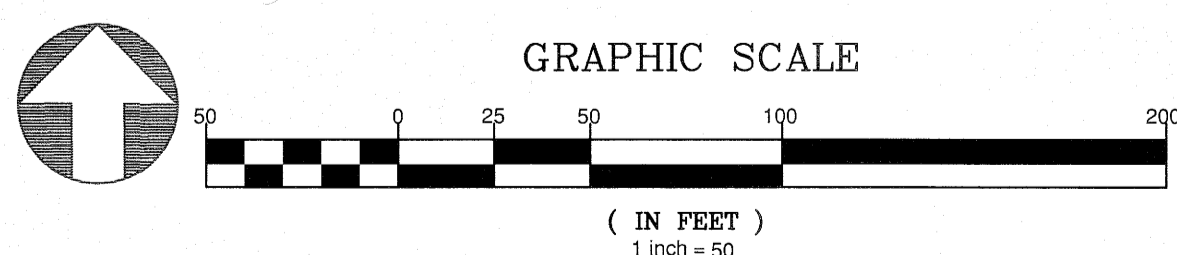
**KALAS FALLS PHASE 3**  
 1832 ROLESVILLE ROAD  
 WAKE COUNTY, NC

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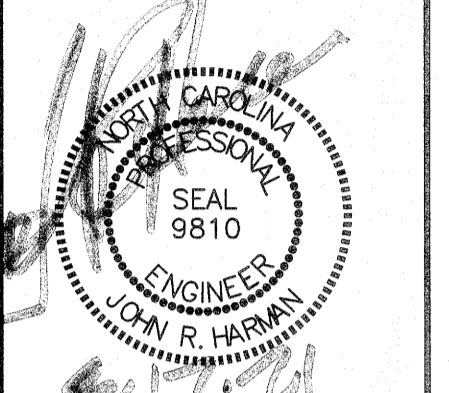
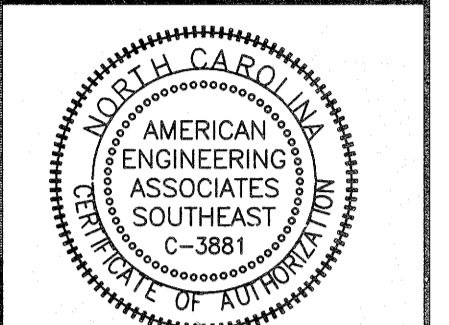




GRADING LEGEND	
	EXISTING TOPOGRAPHY
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	EXISTING WETLANDS AREA
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 919-469-1101

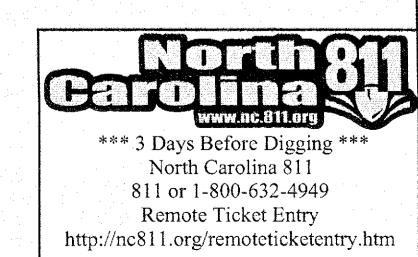


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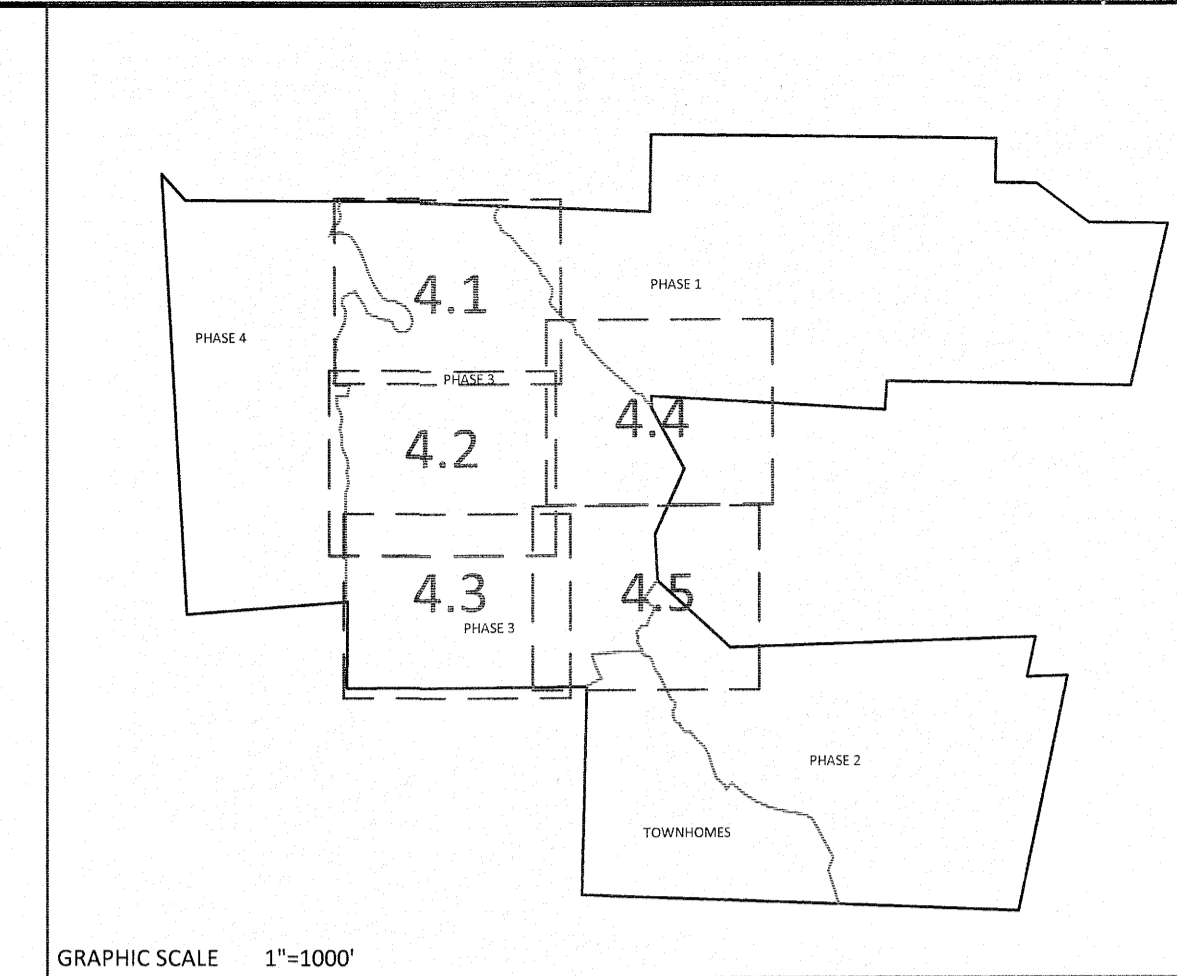
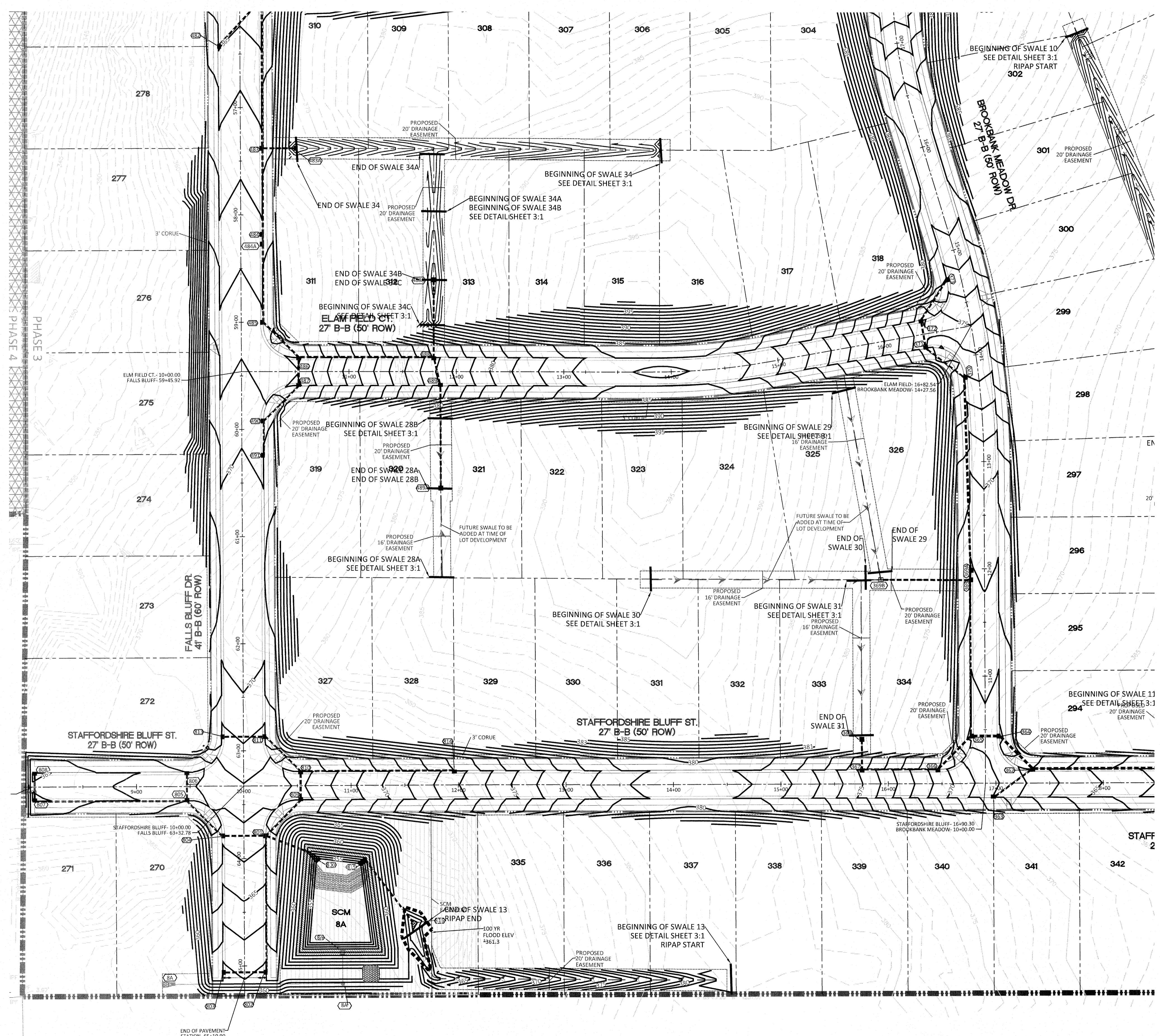
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 WAKE COUNTY, NC

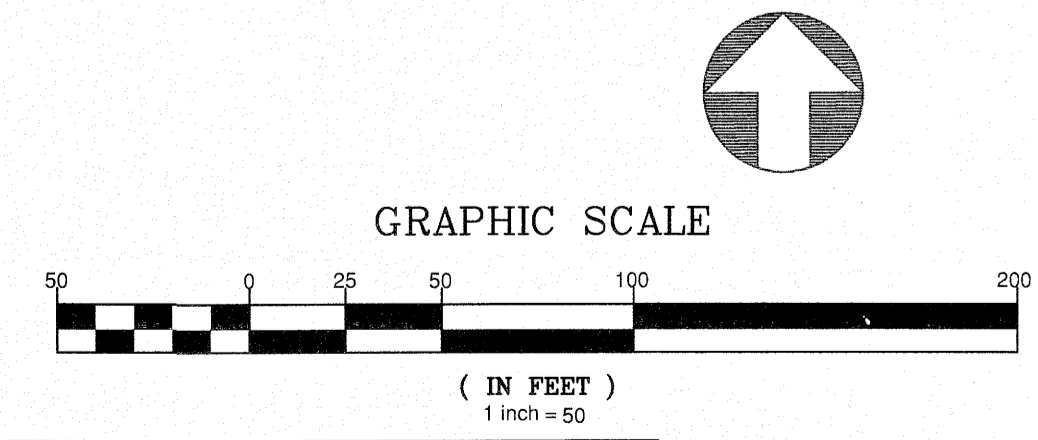
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SHEET NO.:	4.2



August 16, 2021  
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GRADING LEGEND	
	EXISTING TOPOGRAPHY
	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' NEUSE RIVERIAN BUFFER
	EXISTING BUFFER ZONES
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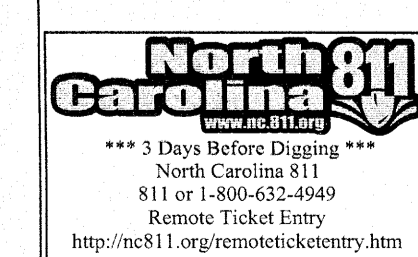


CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

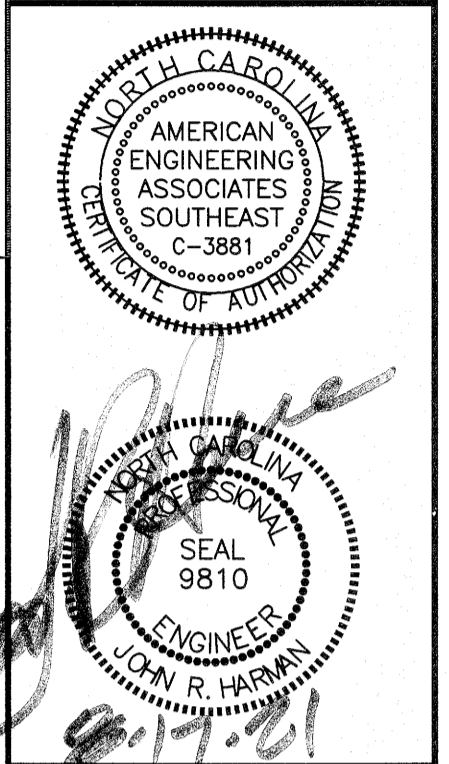
Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval \_\_\_\_\_

Raleigh Water Review Officer



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



NO.	DATE	REVISION
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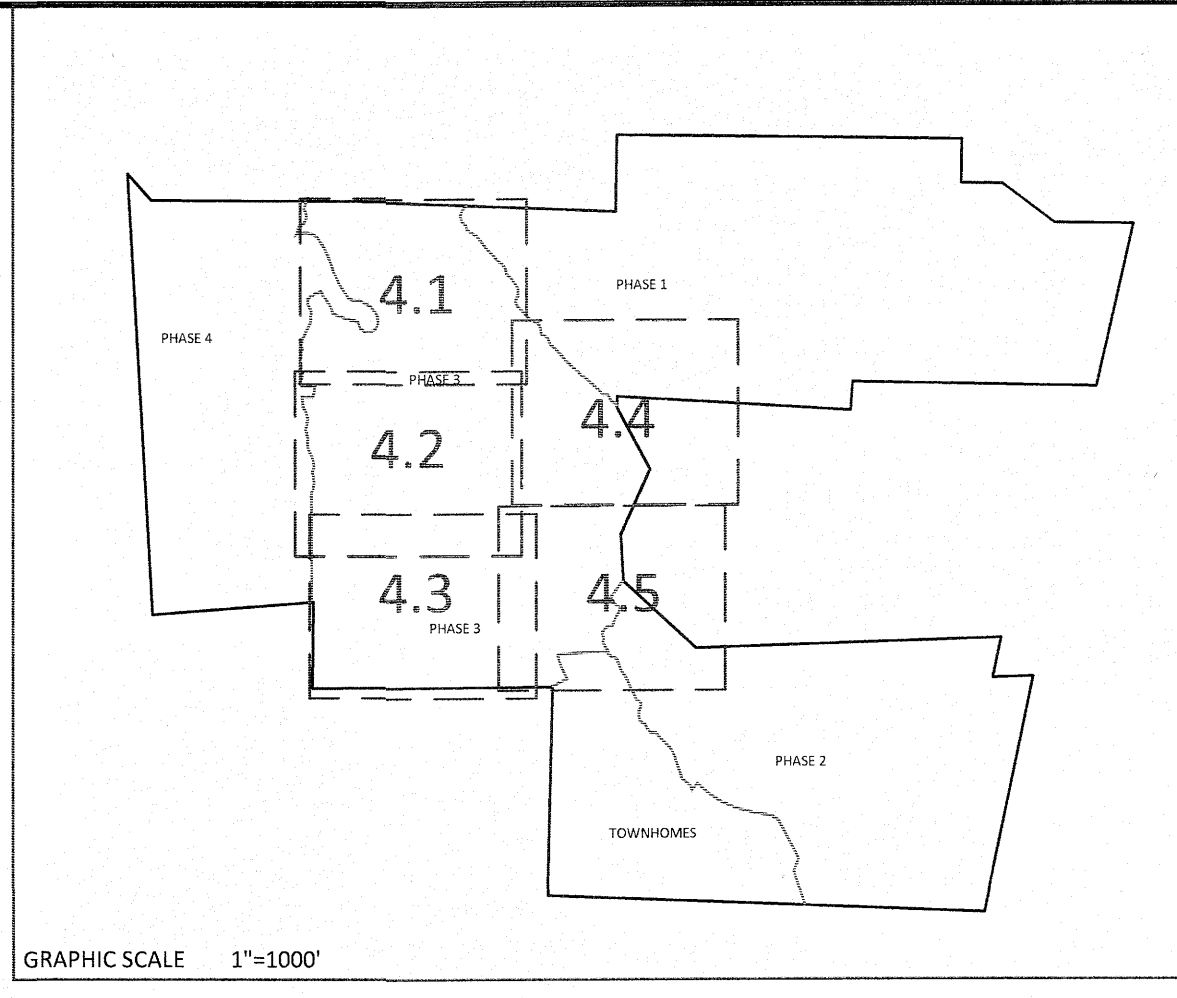
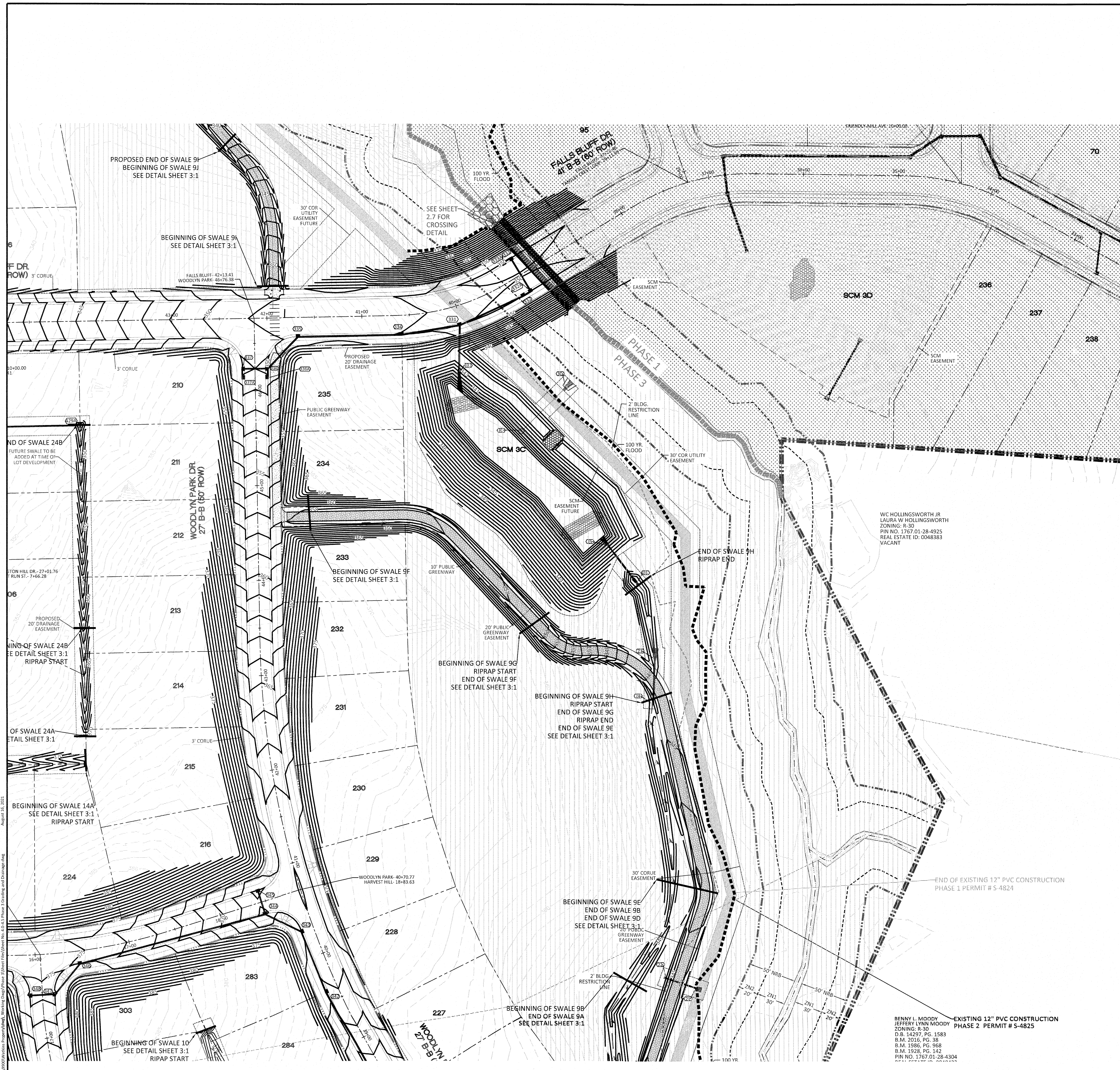
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 WAKE COUNTY, NC

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SHEET TITLE:	<b>PHASE 3 GRADING &amp; DRAINAGE</b>
SHEET NO.:	4.3

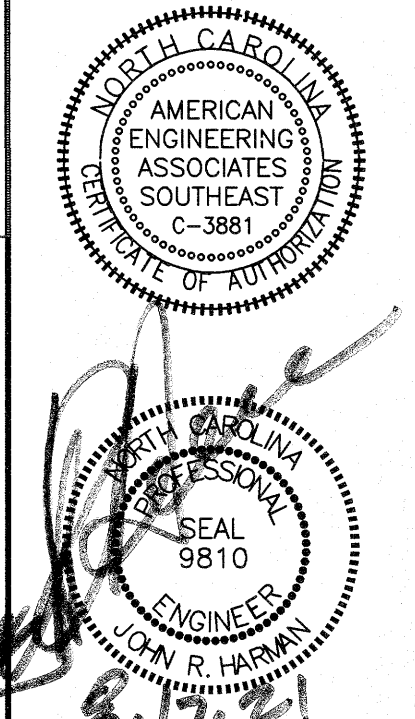
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GRADING LEGEND	
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	FUTURE PHASING
	PROPOSED SWALE (AT TIME OF LOT GRADING)

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.

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

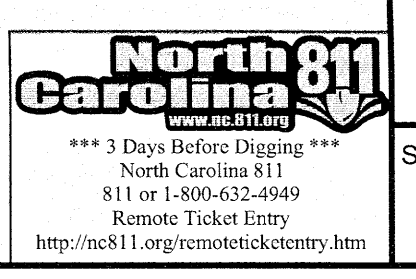
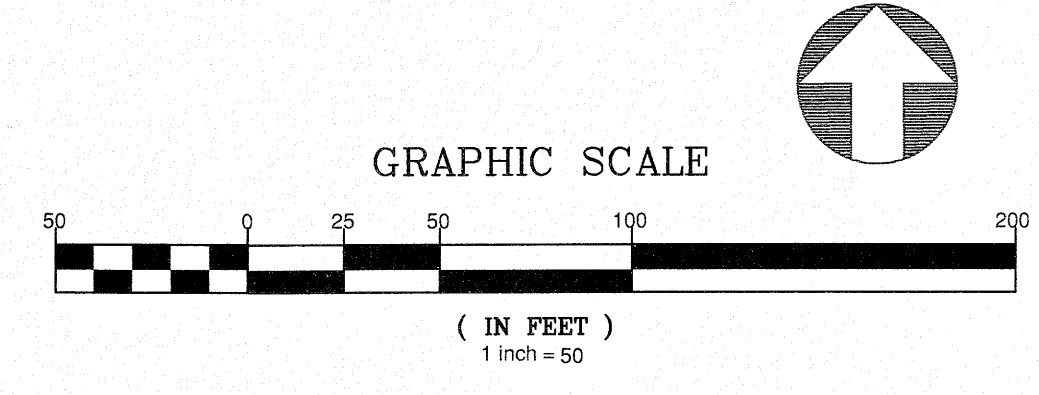


NO.	DATE	REVISION
1	7/21/2021	1ST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF HARRIOTT

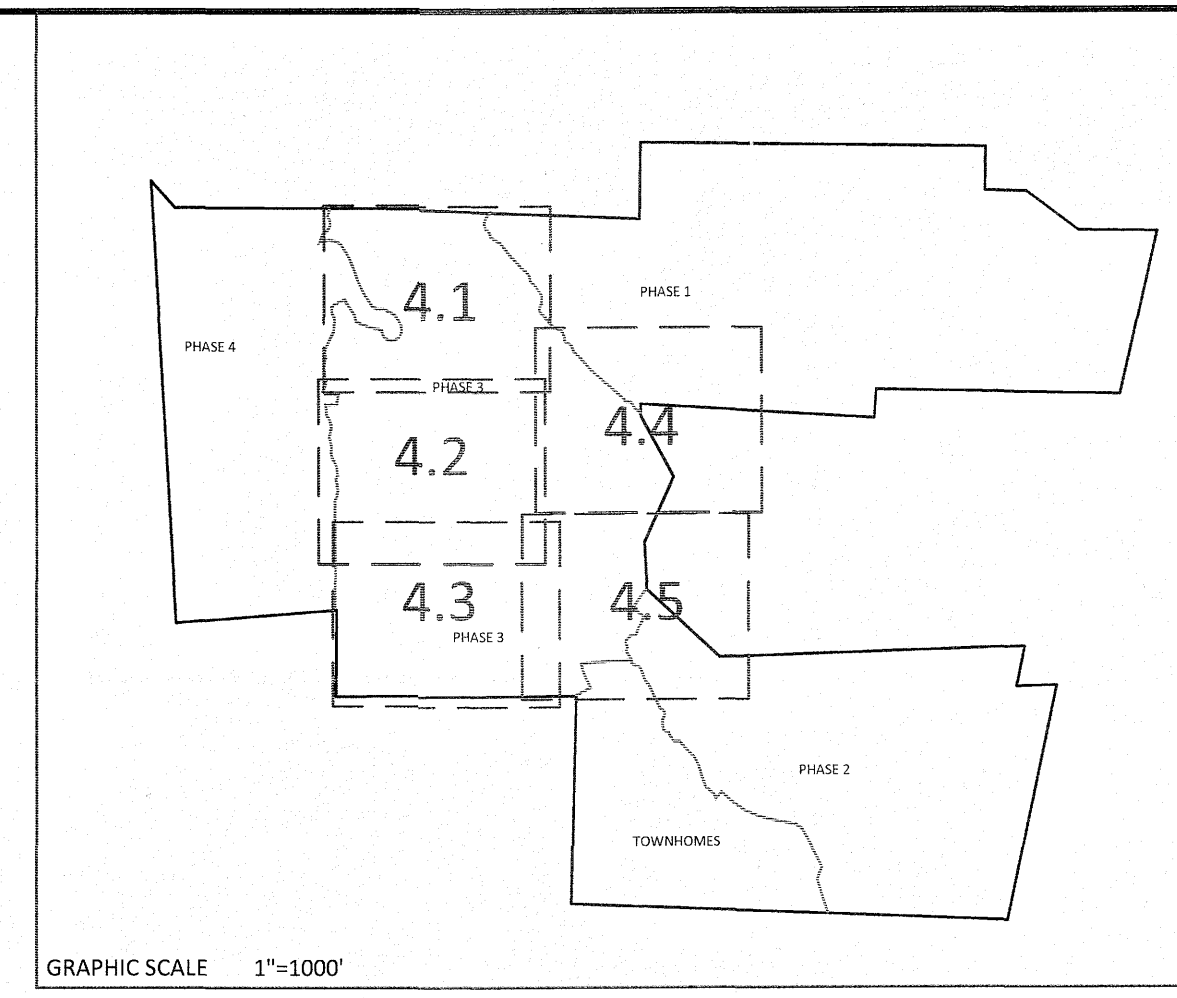
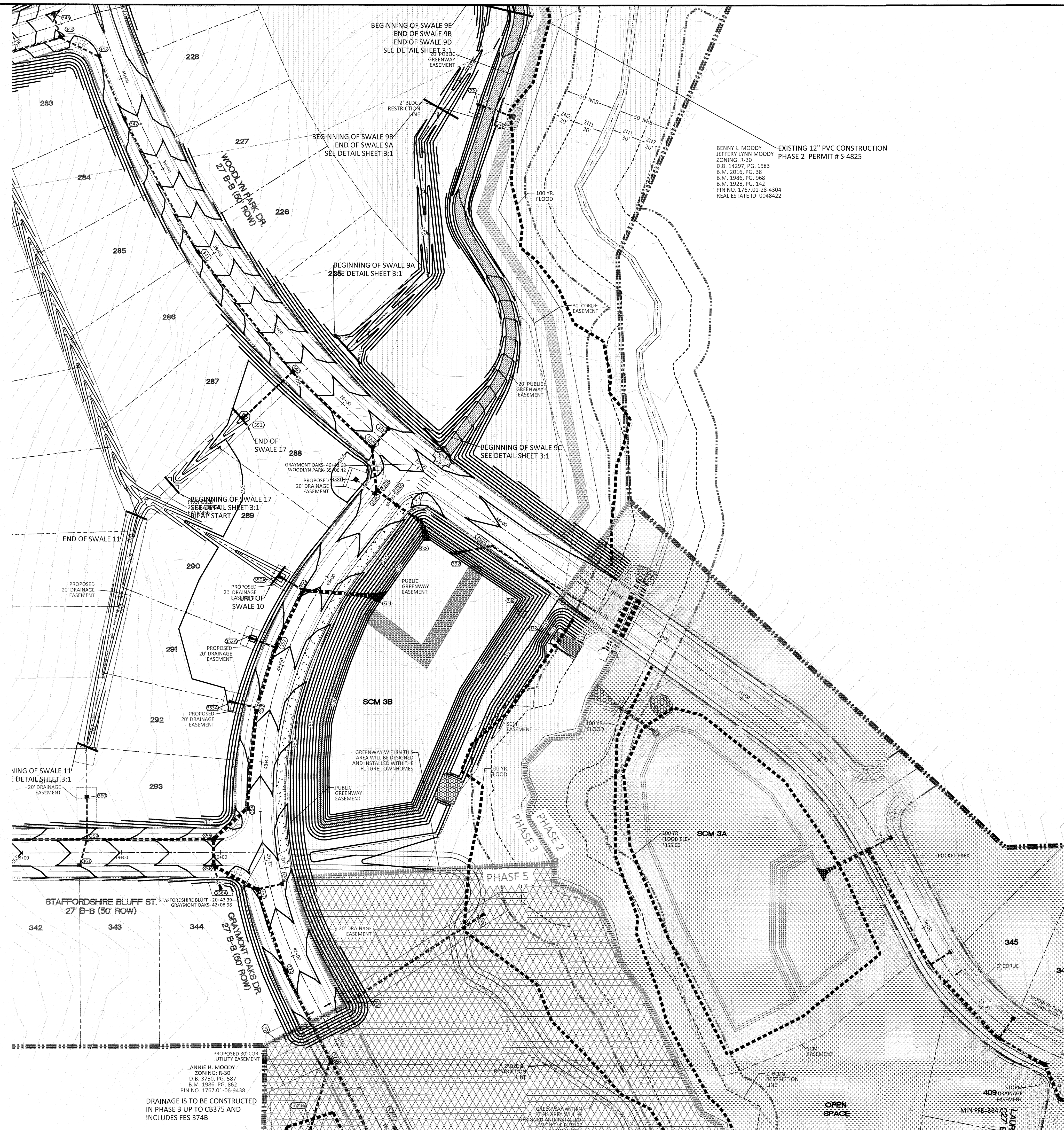
**STIPULATION FOR REUSE**  
 THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES 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:  
 DRAWN BY:  
 DATE: FEB 18, 2021  
 SHEET TITLE:  
**PHASE 3 GRADING & DRAINAGE**  
 SHEET NO.: 4.4



Approved 16, 2021  
 American Engineering Associates - Southeast, P.A.

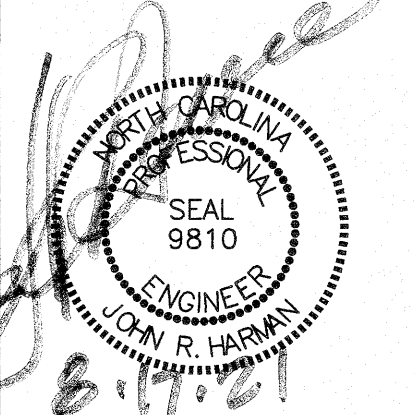
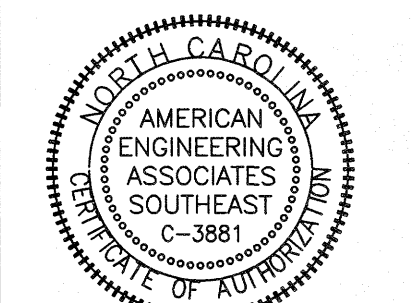


BENNY L. MOODY  
JEFFERY LYNN MOODY  
ZONING: R-30  
D.B. 14297, PG. 1583  
B.M. 2016, PG. 38  
B.M. 1986, PG. 968  
B.M. 1928, PG. 142  
PIN NO. 1767.01-28-4304  
REAL ESTATE ID: 0048422

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 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)

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

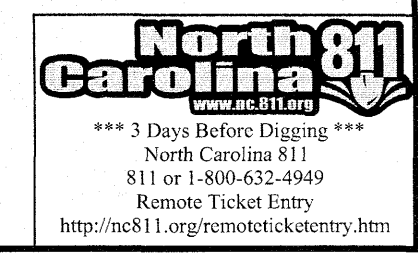
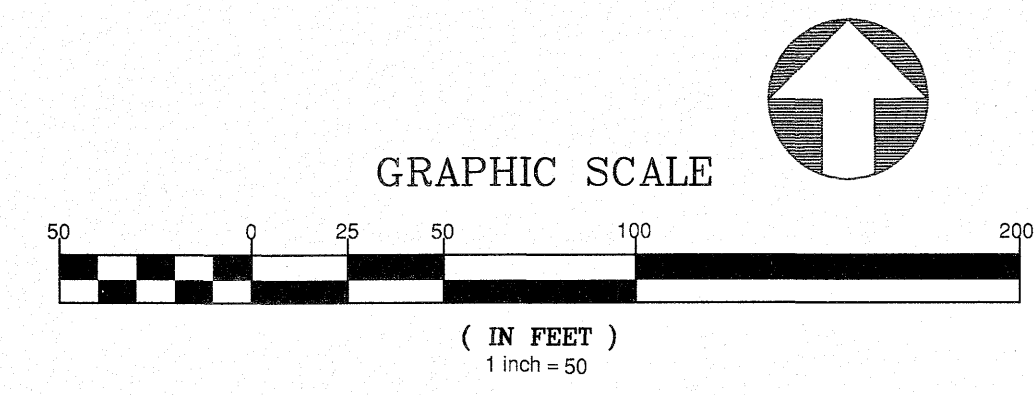


NO.	DATE	REVISION
1	1/7/21/2021	1ST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH

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

JOB NUMBER:	9900
CHECKED BY:	
DRAWN BY:	
DATE:	FEB 18, 2021
SHEET TITLE:	<b>PHASE 3 GRADING &amp; DRAINAGE</b>
SHEET NO.:	4.5



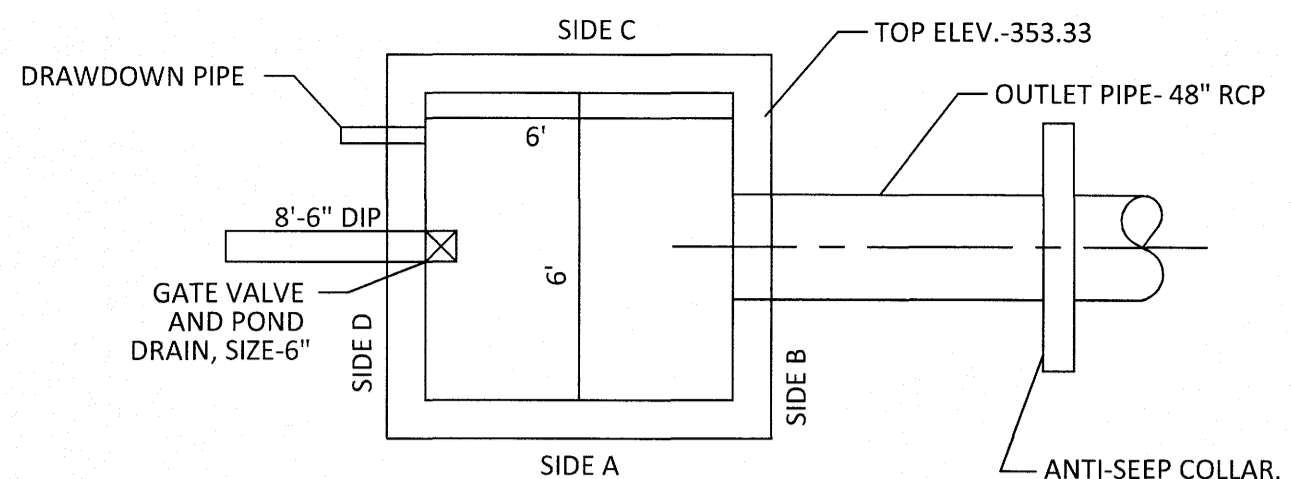
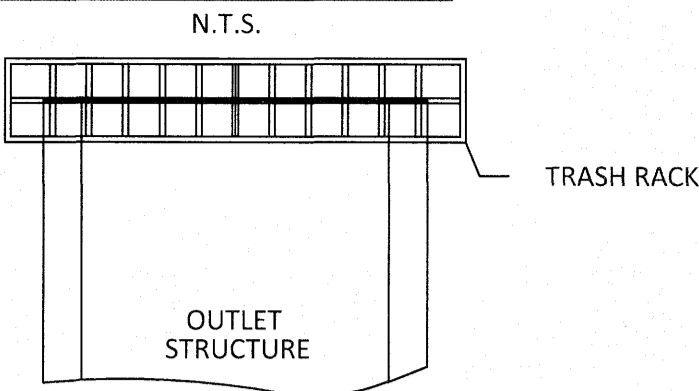
August 16, 2021  
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ANNIE H. MOODY  
ZONING: R-30  
D.B. 3750, PG. 587  
B.M. 1986, PG. 862  
PIN NO. 1767.01-06-9438

DRAINAGE IS TO BE CONSTRUCTED IN PHASE 3 UP TO CB375 AND INCLUDES FES 374B

OPEN SPACES WITHIN THIS AREA WILL BE MAINTAINED AS OPEN SPACE UNLESS OTHERWISE INDICATED

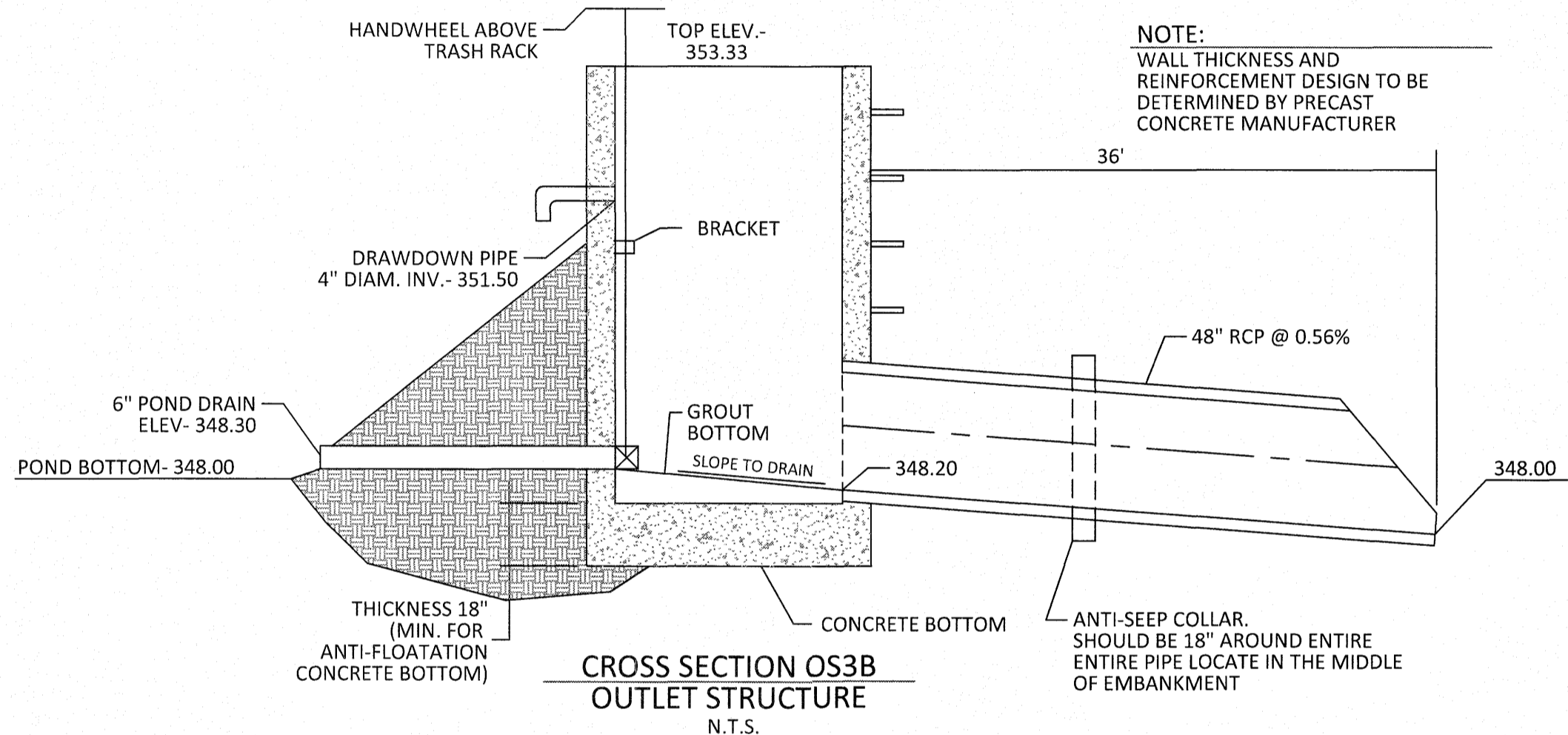
**TRASH RACK DETAIL**



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

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.

- TRASH RACK NOTES**
1. TRASH RACK SHALL BE 6" CLEAR OF STRUCTURE TOP AND SIDES. THE TRASH RACK NEED NOT COVER THE TREATMENT OUTLET PIPE.
  2. IF STRUCTURE FEATURES ANY WEIR NOTCHES THE TRASH RACK WILL EXTEND 5" BELOW THE NOTCHES. (SEE CROSS-SECTION OF THE OUTLET STRUCTURE.)
  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").



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

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

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

**PLANT LIST LITTORAL SHELF PLANT SCHEDULE:**

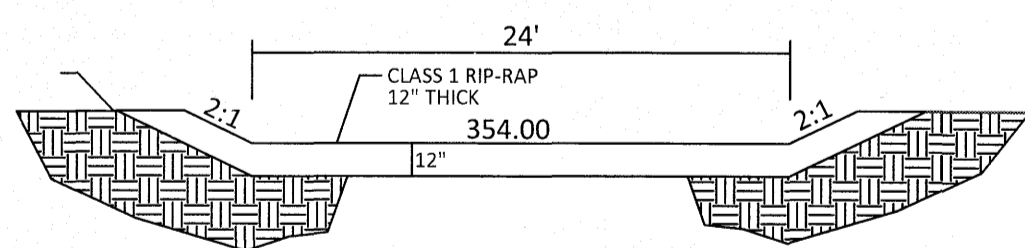
- SHALLOW LAND (HERB.)**
- EF EUPATORIUM FISTULOSUM JOE PYE WEED 4-6" POT @ 3' SPACING
  - HC HIBISCUS COCCINEA SCARLET ROSE MALLOW 4-6" POT @ 3' SPACING
  - CG CHELONE GLABRA WHITE TURTLEHEAD 4-6" POT @ 3' SPACING
  - LC LOBELIA CARDINALIS CARDINAL FLOWER 4-6" POT @ 3' SPACING
- SHALLOW WATER (HERB.)**
- JE JUNCUS 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= 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

TOP OF DAM - 356.00



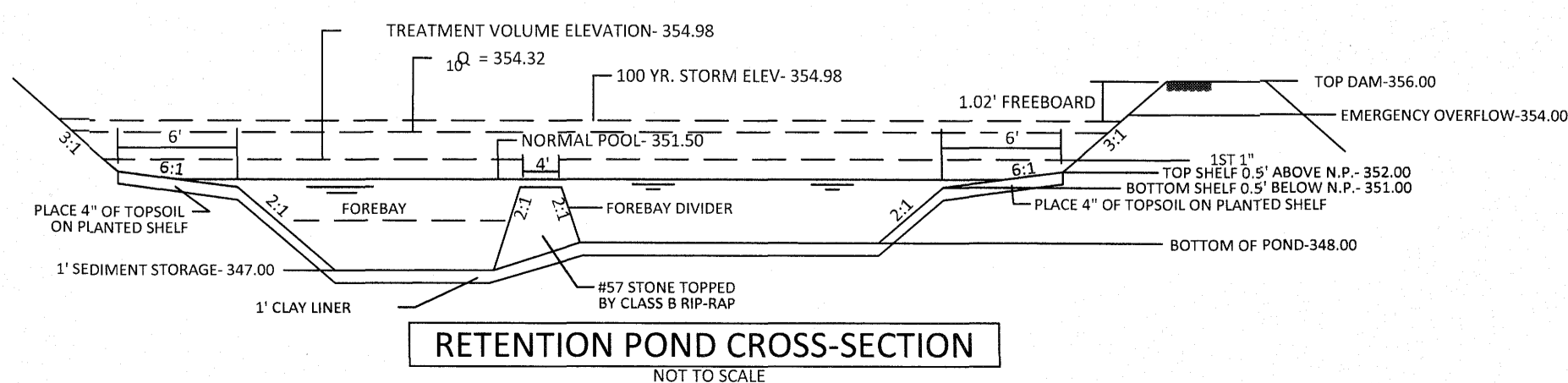
**EMERGENCY SPILLWAY  
CROSS-SECTION**

**OUTLET STRUCTURE GENERAL NOTES**

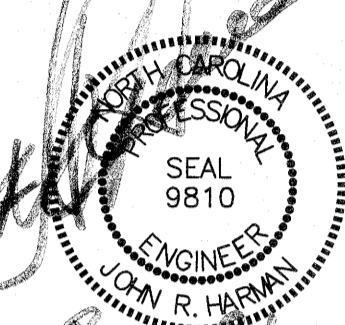
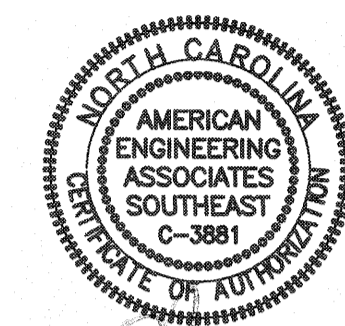
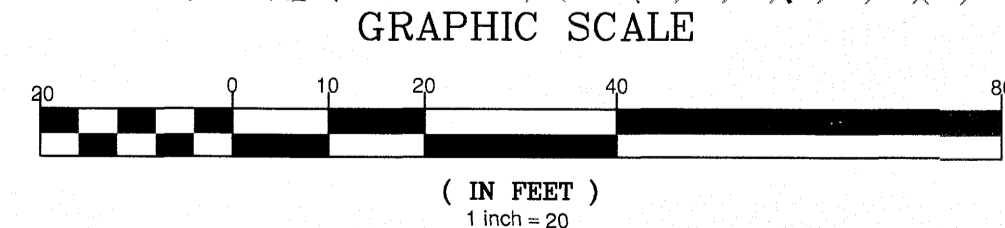
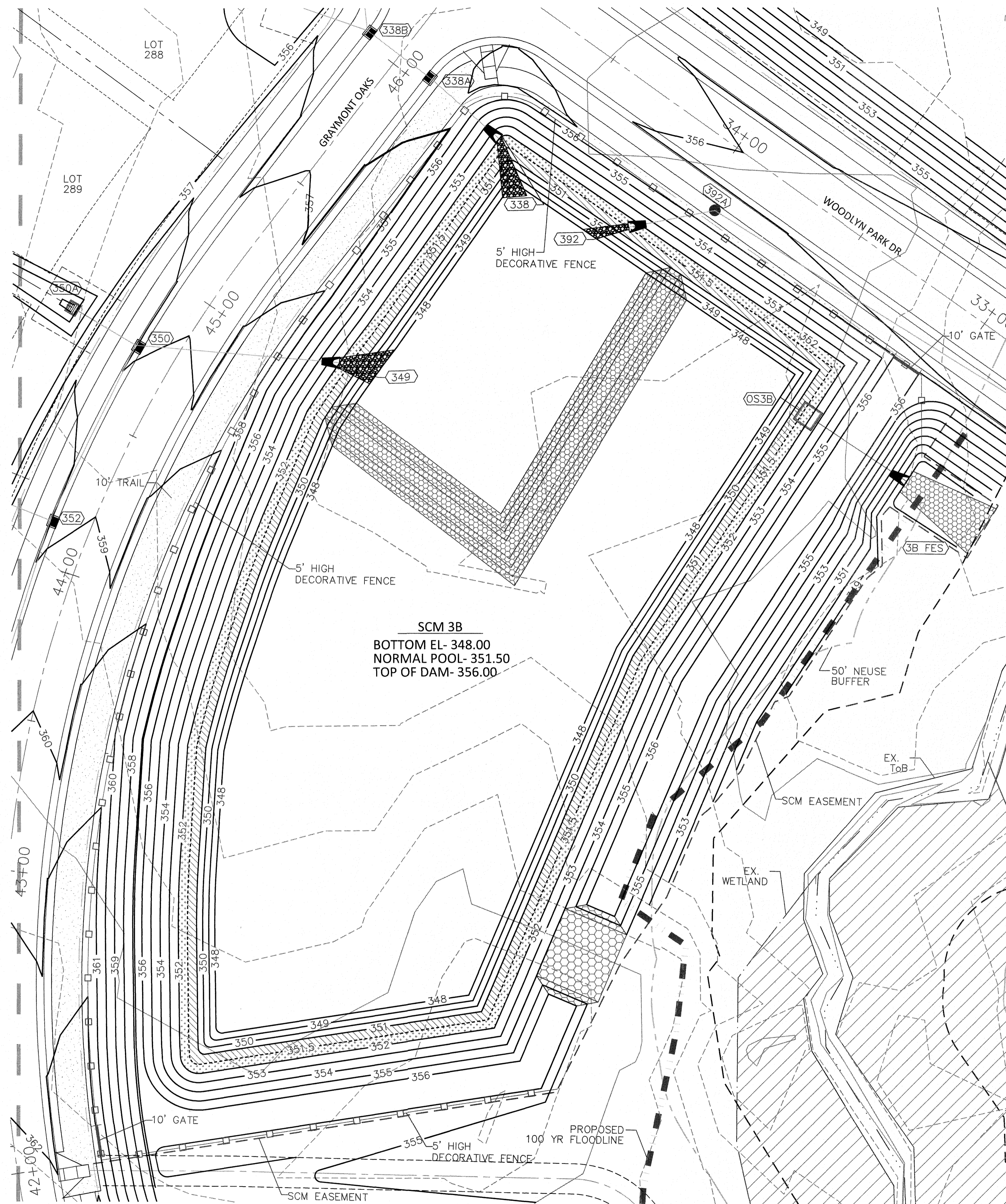
1. OUTLET STRUCTURE ELEVATIONS SHOWN ON THE DETAILS ON THIS SHEET ARE CRITICAL AND MUST BE WITHIN 0.02' OF THAT SHOWN. IF OUTLET STRUCTURES ARE PRE-CAST OFF-SITE, THE HOLE FOR THE OUTLET PIPE SHALL BE ENLARGED TO ALLOW UP TO 0.3' OF VERTICAL MOVEMENT. WHEN INSTALLED, THE EXCESS OPENING SHALL BE FILLED 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.



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



NO.	DATE	REVISION
1	7/21/2021	LIST OF TABLET

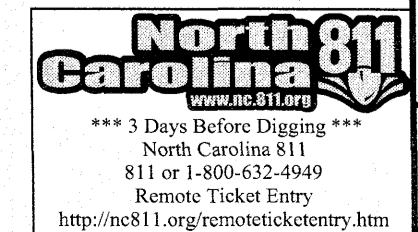
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**KALAS FALLS  
PHASE 3  
1832 ROLESVILLE ROAD  
WAKE COUNTY, NC**

JOB NUMBER: 9900  
CHECKED BY:  
DRAWN BY:  
DATE: FEB 18, 2021  
SHEET TITLE:

**SCM 3B  
DETAILS**

SHEET NO.: 4.6

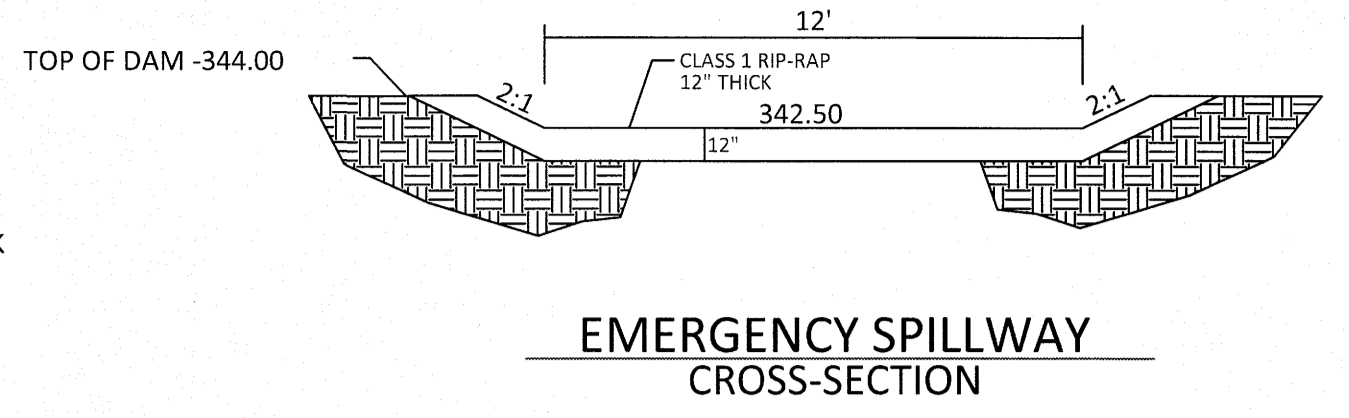
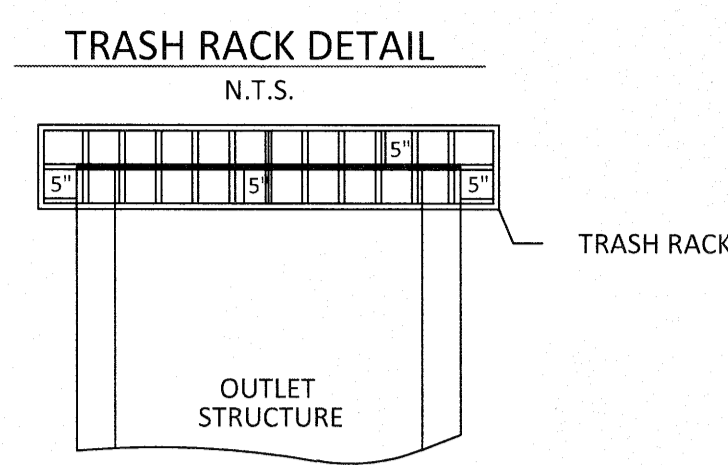


NO.	DATE	REVISION
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**STIPULATION FOR REUSE**  
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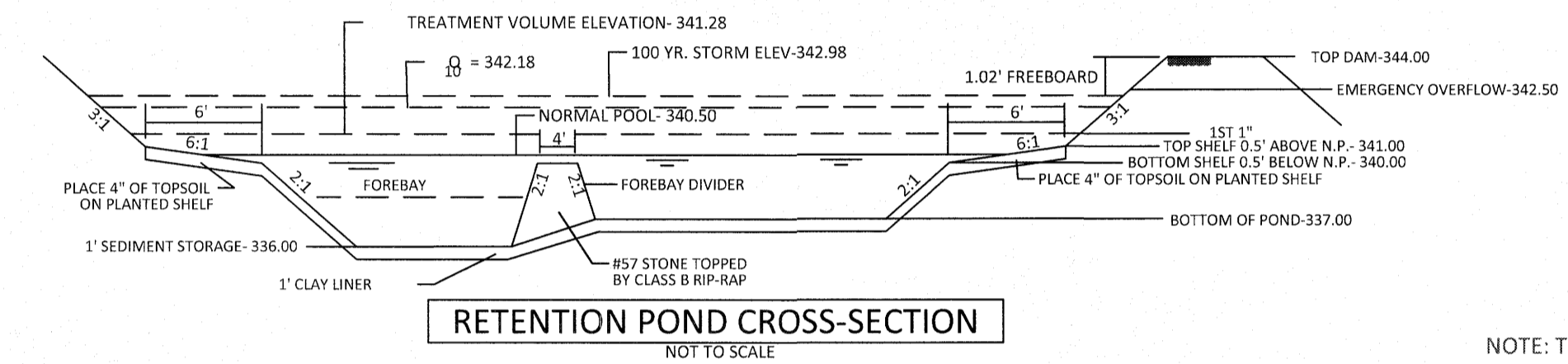
**KALAS FALLS PHASE 3**  
 1832 ROLESVILLE ROAD  
 WAKE COUNTY, NC

JOB NUMBER: 9900  
 CHECKED BY:  
 DRAWN BY:  
 DATE: FEB 18, 2021  
 SHEET TITLE:  
**SCM 3C DETAILS**  
 SHEET NO.: 4.7



- TRASH RACK NOTES**
1. TRASH RACK SHALL BE 6" CLEAR OF STRUCTURE TOP AND SIDES. THE TRASH RACK NEED NOT COVER THE TREATMENT OUTLET PIPE.
  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").

**WET POND #3C**  
 BOTTOM EL- 337.00  
 NORMAL POOL- 340.50  
 TOP OF DAM- 344.00

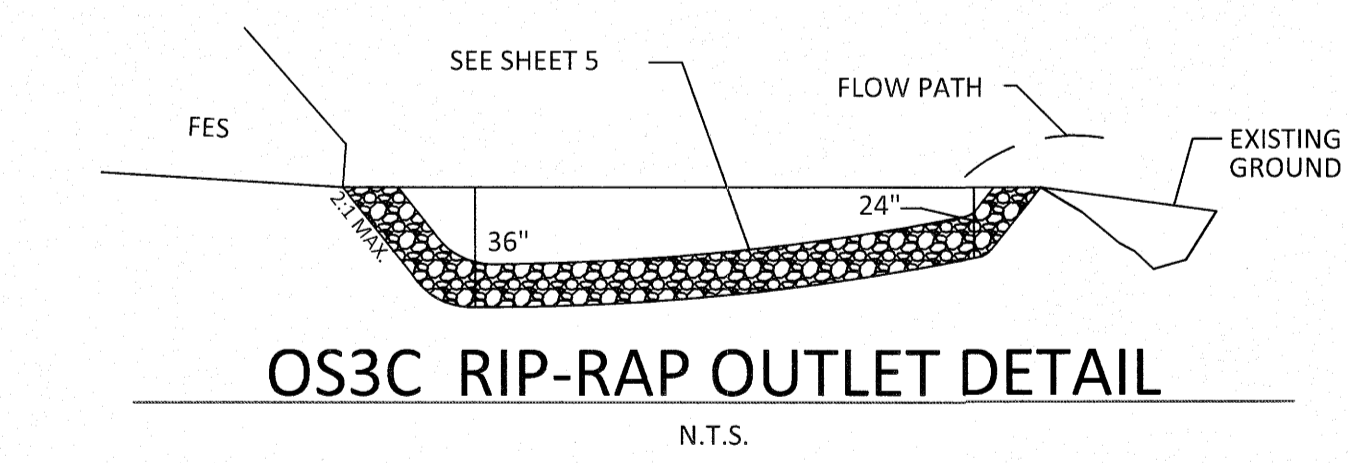


NOTE: THE 100 YEAR FLOOD-LINE AS ON THESE PLANS WERE TAKEN FROM THE FLOOD STUDY PREPARED BY DONLAD A SEVER, PE (024627) OF HUGH J. GILLECCE, III AND ASSOCIATES, P.A.

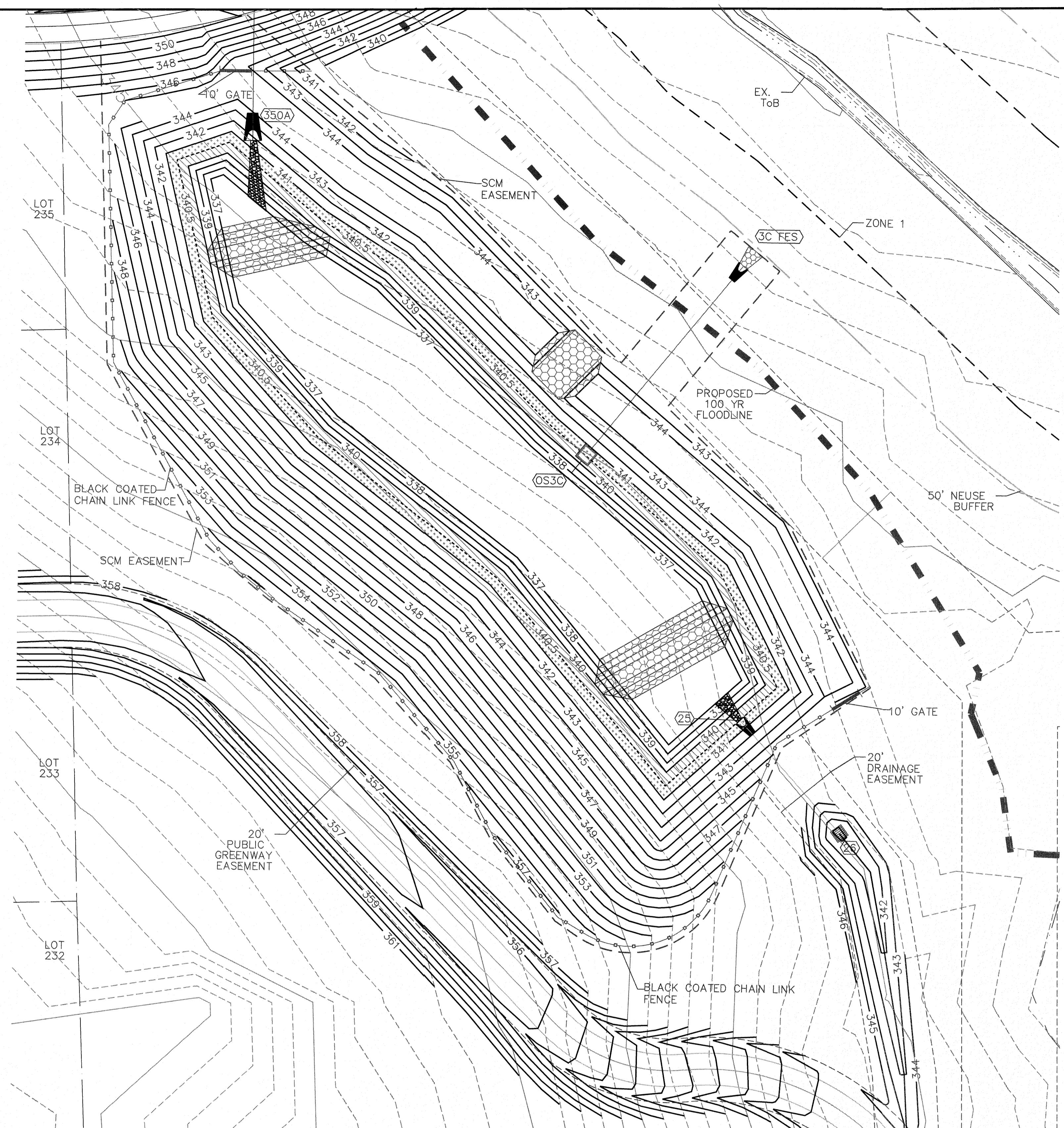
- PLANT LIST LITTORAL SHELF PLANT SCHEDULE:**
- SHALLOW LAND (HERB.)**
- EF EUPATORIUM FISTRULOSUM JOE PYE WEED 4-6" POT @ 3' SPACING
  - HC HIBISCUS COCCINEA SCARLET ROSE MALLOW 4-6" POT @ 3' SPACING
  - CG CHELONE GLABRA WHITE TURTLEHEAD 4-6" POT @ 3' SPACING
  - LC LOBELIA CARDINALIS CARDINAL FLOWER 4-6" POT @ 3' SPACING
- SHALLOW WATER (HERB.)**
- JE JUNCUS EFFUSUS SOFTRUSH 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= 1,734 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**

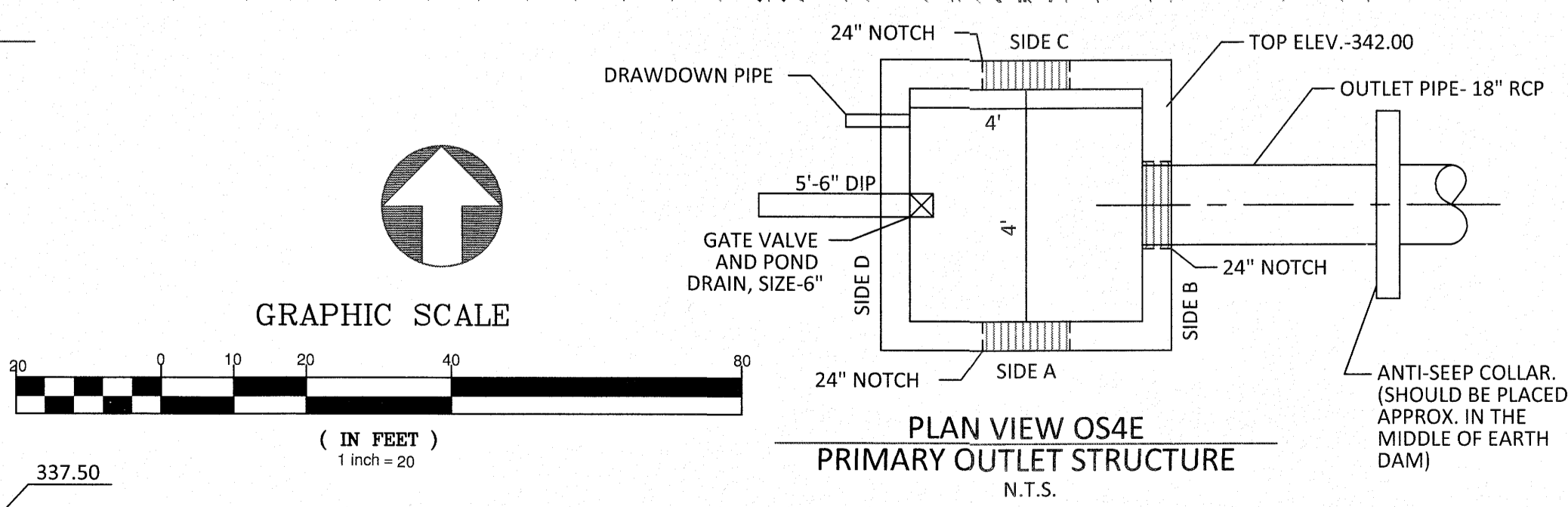
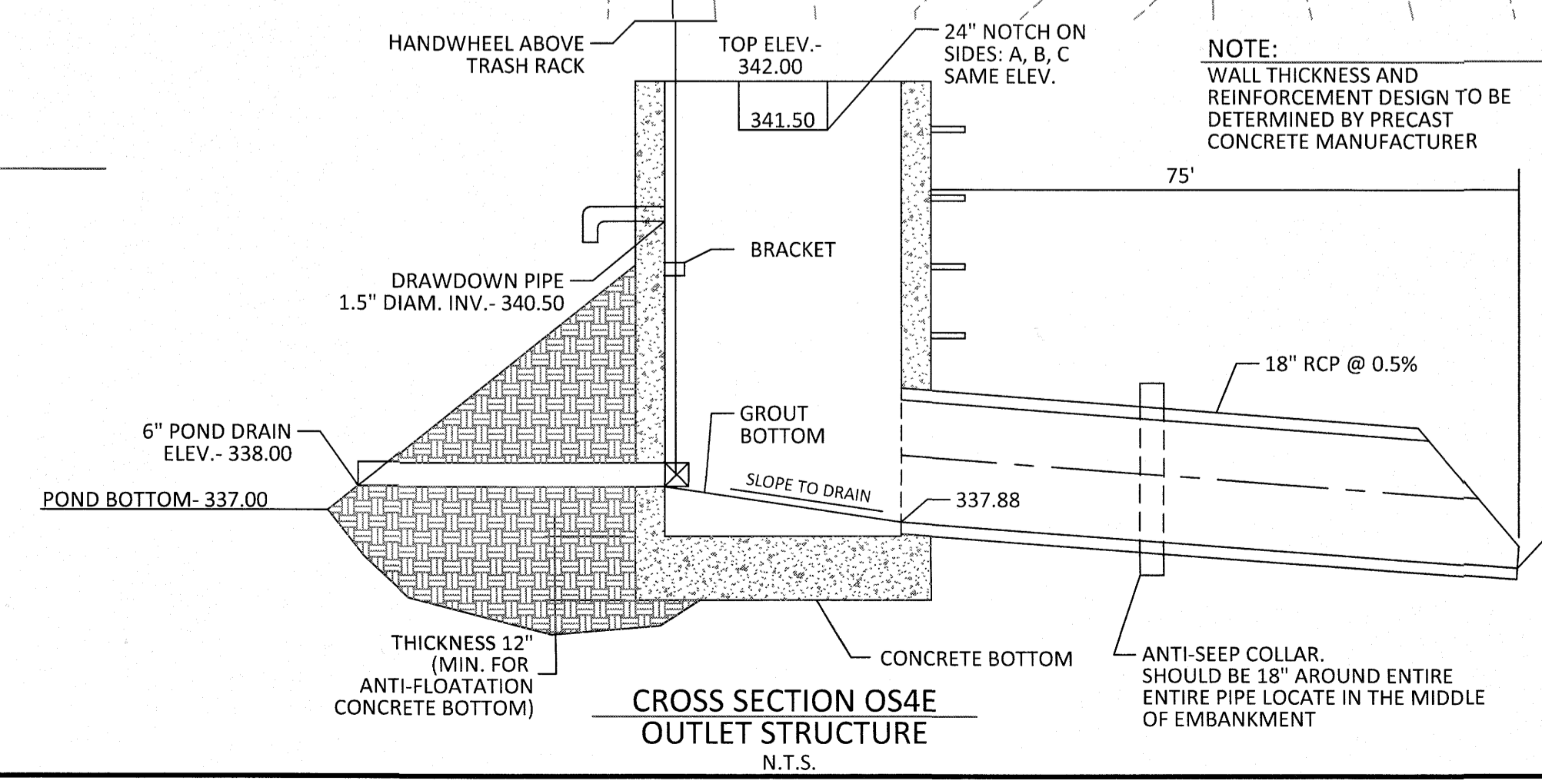


August 1, 2021  
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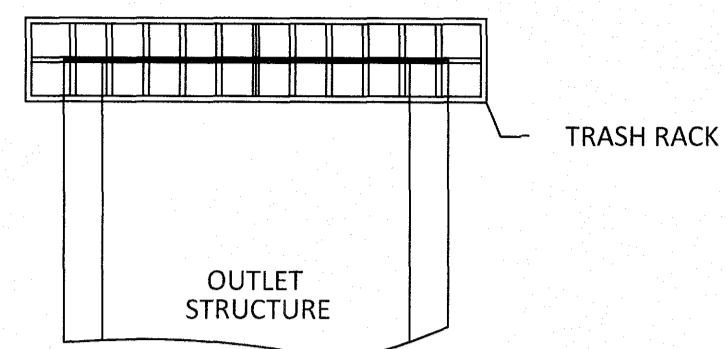


- OUTLET STRUCTURE GENERAL NOTES**
1. OUTLET STRUCTURE ELEVATIONS SHOWN ON THE DETAILS ON THIS SHEET ARE CRITICAL AND MUST BE WITHIN 0.02' OF THAT SHOWN. IF OUTLET STRUCTURES ARE PRE-CAST OFF-SITE, THE HOLE FOR THE OUTLET PIPE SHALL BE ENLARGED TO ALLOW UP TO 0.3' OF VERTICAL MOVEMENT. WHEN INSTALLED, 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.

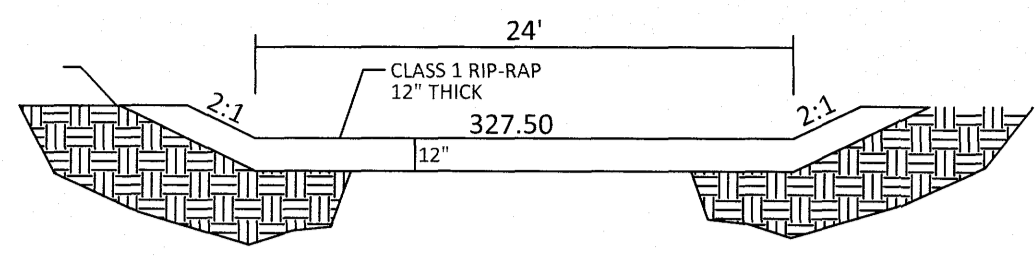
- POND NOTES**
1. SEE SHEET 3.0 FOR BMP CONVERSION SEQUENCE.
  2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.



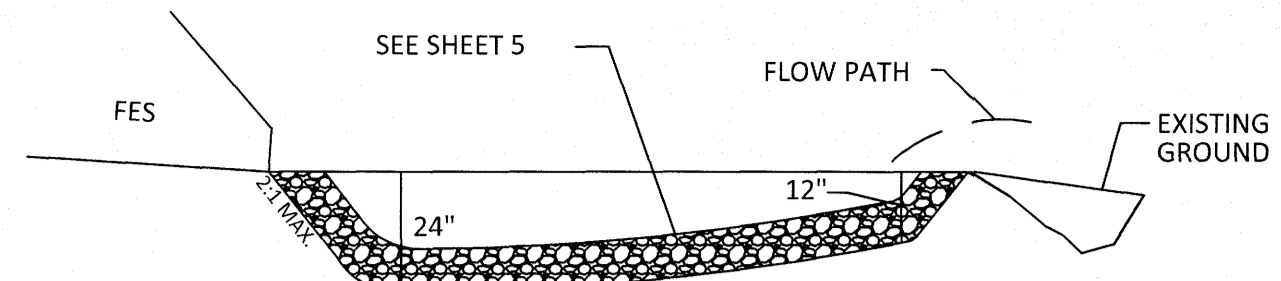
**TRASH RACK DETAIL**  
N.T.S.



TOP OF DAM -329.00



**EMERGENCY SPILLWAY CROSS-SECTION**



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

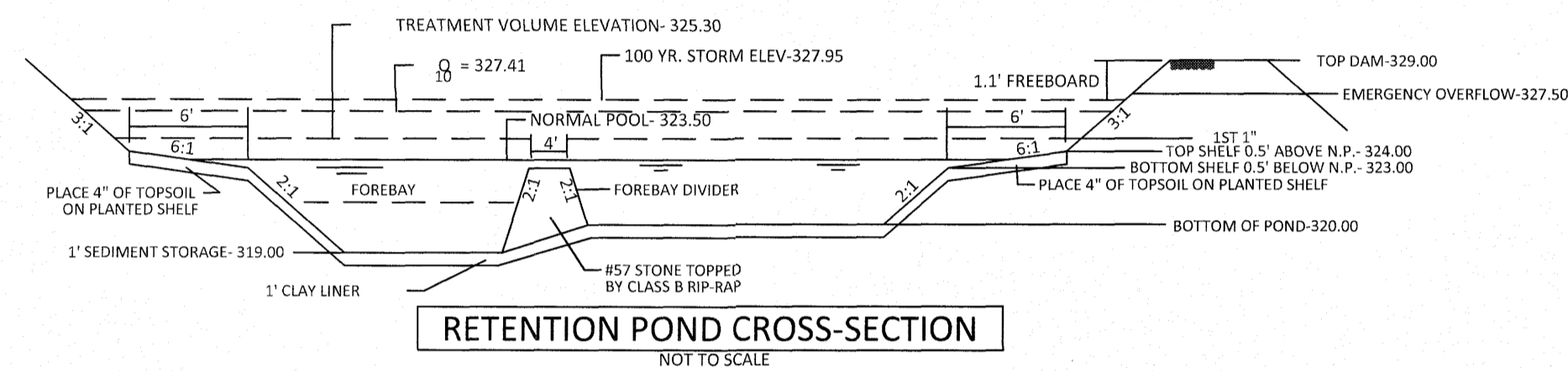
- PLANT LIST LITTORAL SHELF PLANT SCHEDULE:**
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 EF EUPATORIUM FISTRULOSUM JOE PYE WEED 4-6" POT @ 3' SPACING  
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 IV IRIS VERSICOLOR BLUE FLAG IRIS 4-6" POT @ 3' SPACING  
 PC PONTEDERIA CORDATA PECKEREI WEED 4-6" POT @ 3' SPACING  
 PV PELTANDRA VIRGINICA ARROW ARUM 4-6" POT @ 3' SPACING

**LANDSCAPE PLAN:**  
 SHALLOW LAND= 1,281 sf (USE 330 PLANTS FROM LIST ABOVE)  
 SHALLOW WATER= 1,217 sf (USE 304 PLANTS FROM LIST ABOVE)  
 USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

**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 THOUGH 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. GILLECE, III AND ASSOCIATES, P.A.



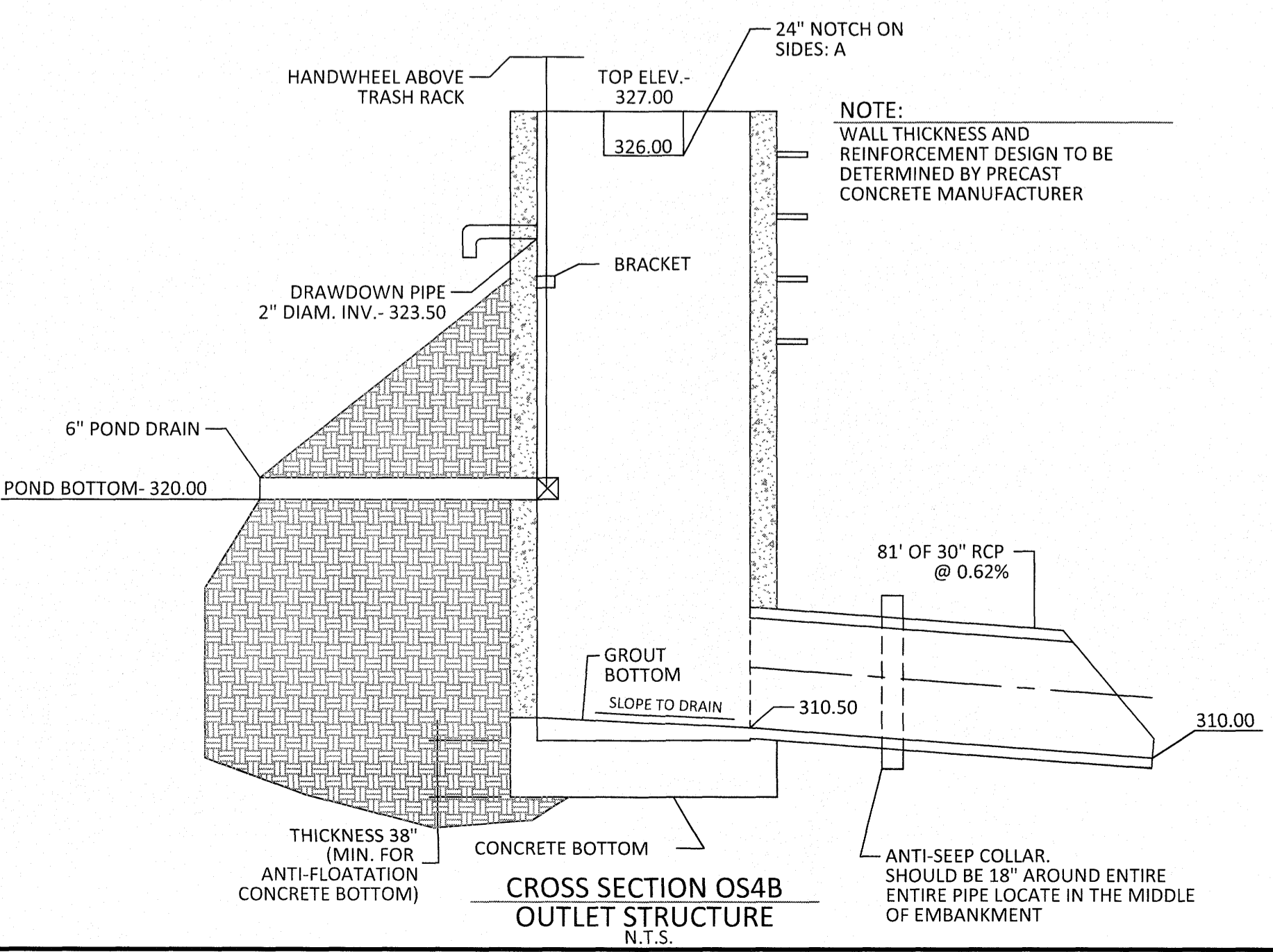
**RETENTION POND CROSS-SECTION**  
NOT TO SCALE

**OUTLET STRUCTURE GENERAL NOTES**

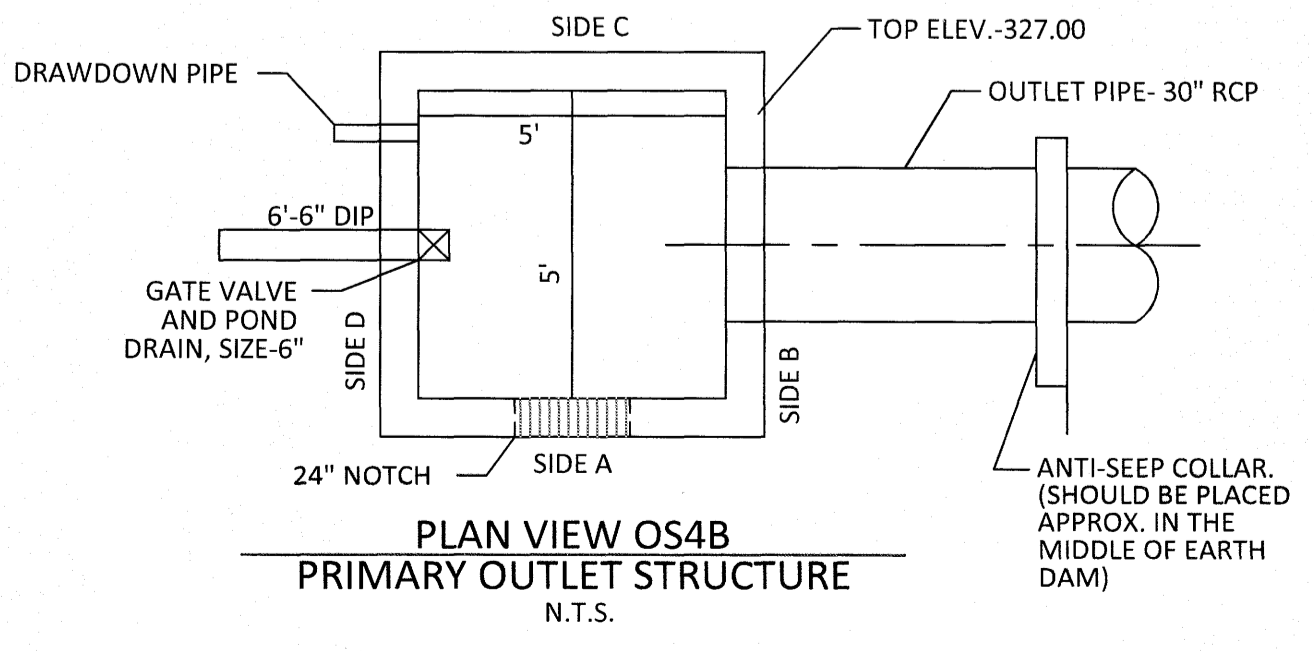
- OUTLET STRUCTURE ELEVATIONS SHOWN ON THE DETAILS ON THIS SHEET ARE CRITICAL AND MUST BE WITHIN 0.02' OF THAT SHOWN. IF OUTLET STRUCTURES ARE PRE-CAST OFF-SITE, THE HOLE FOR THE OUTLET PIPE SHALL BE ENLARGED TO ALLOW UP TO 0.3' OF VERTICAL MOVEMENT. WHEN INSTALLED, THE EXCESS OPENING SHALL BE FILLED 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**

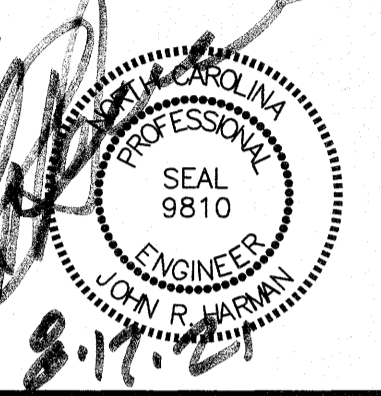
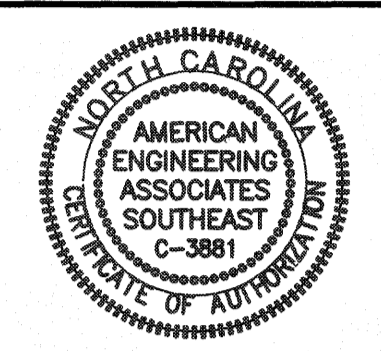
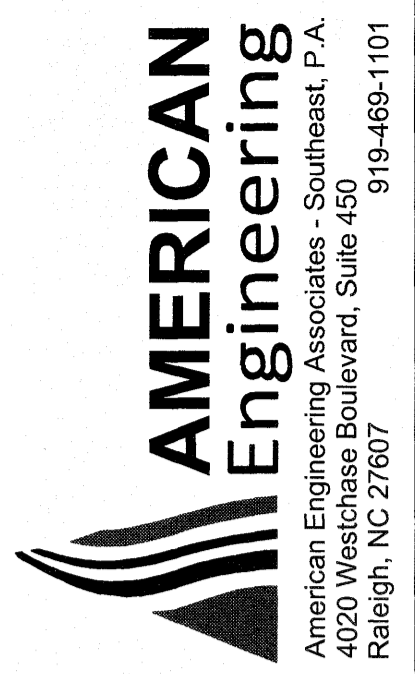
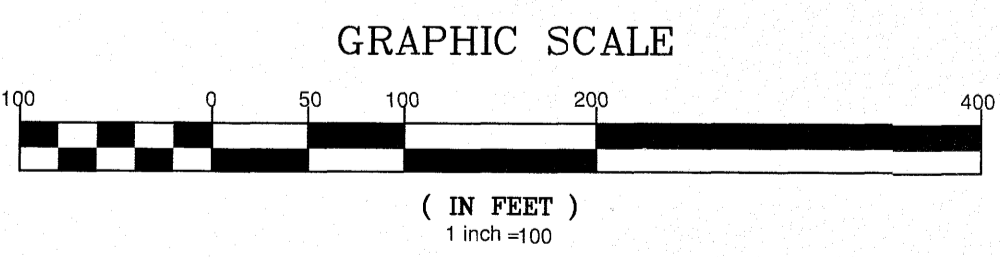
- SEE SHEET 3.0 FOR BMP CONVERSION SEQUENCE.
- FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.



**CROSS SECTION OS4B OUTLET STRUCTURE**  
N.T.S.



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



NO.	REVISION:
1.	LIST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH
DATE:	17/27/2024

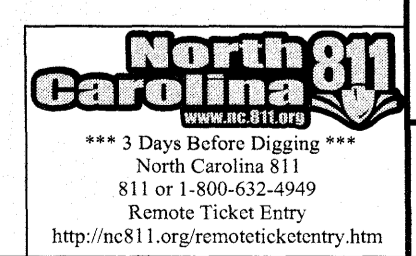
**STIPULATION FOR REUSE**  
 THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR RETROFIT OR EXAMPLE ON ANOTHER PROJECT REQUIRES 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.

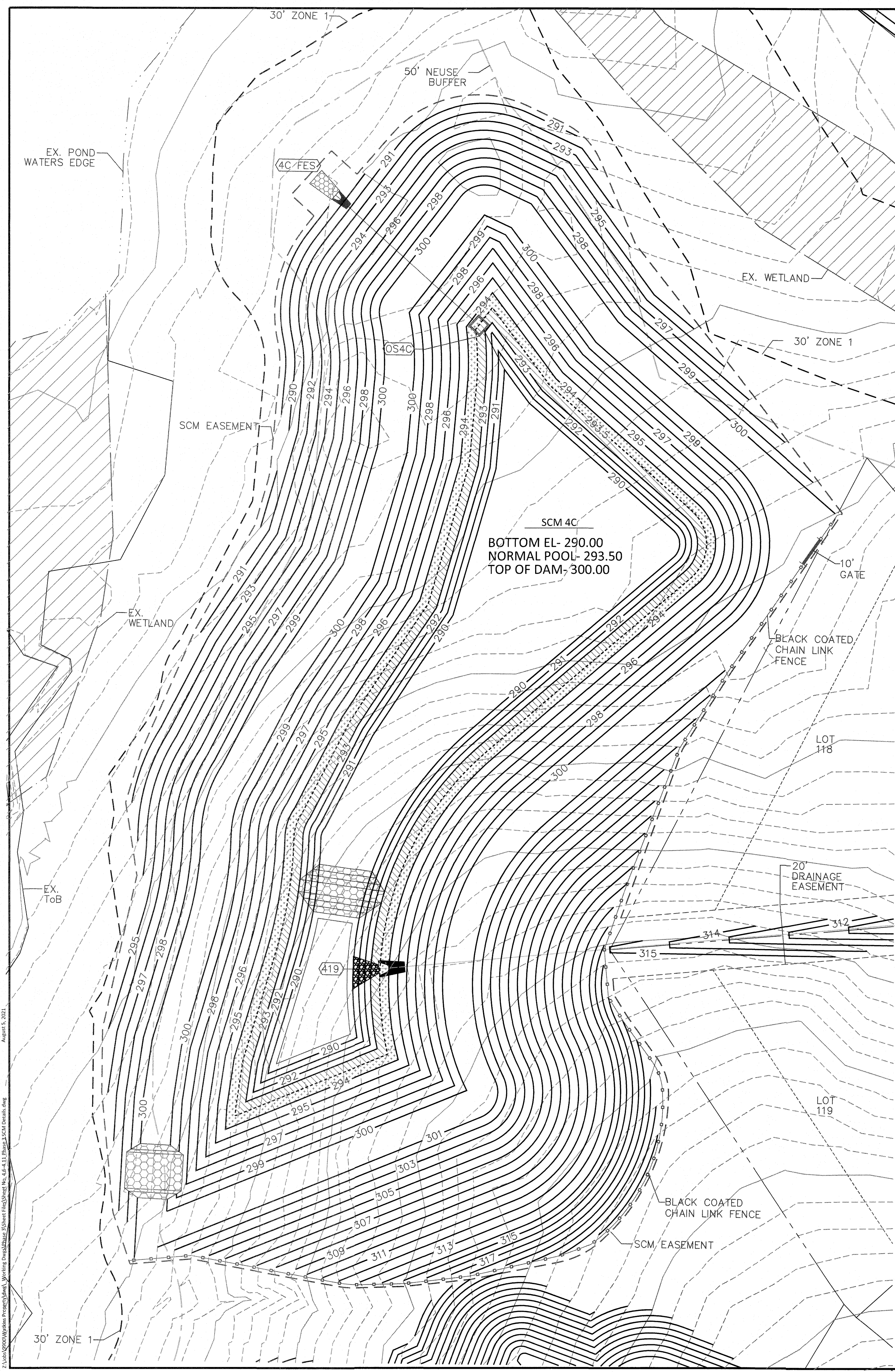
**KALAS FALLS PHASE 3**  
 1832 ROLESVILLE ROAD  
 WAKE COUNTY, NC

JOB NUMBER: 9900  
 CHECKED BY:  
 DRAWN BY:  
 DATE: FEB 18, 2021  
 SHEET TITLE:

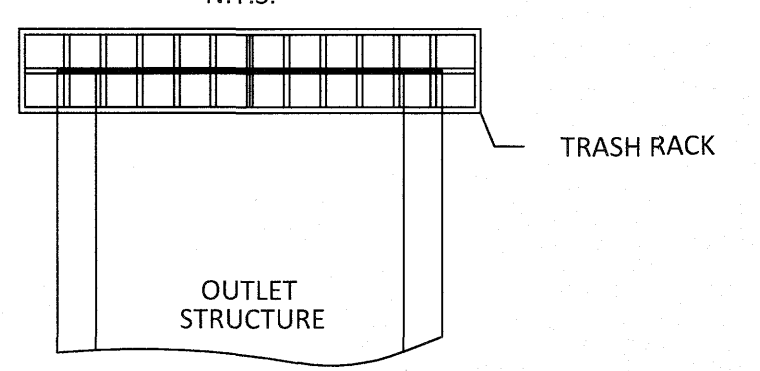
**SCM 4B DETAILS**

SHEET NO.: 4.8





**TRASH RACK DETAIL**  
N.T.S.



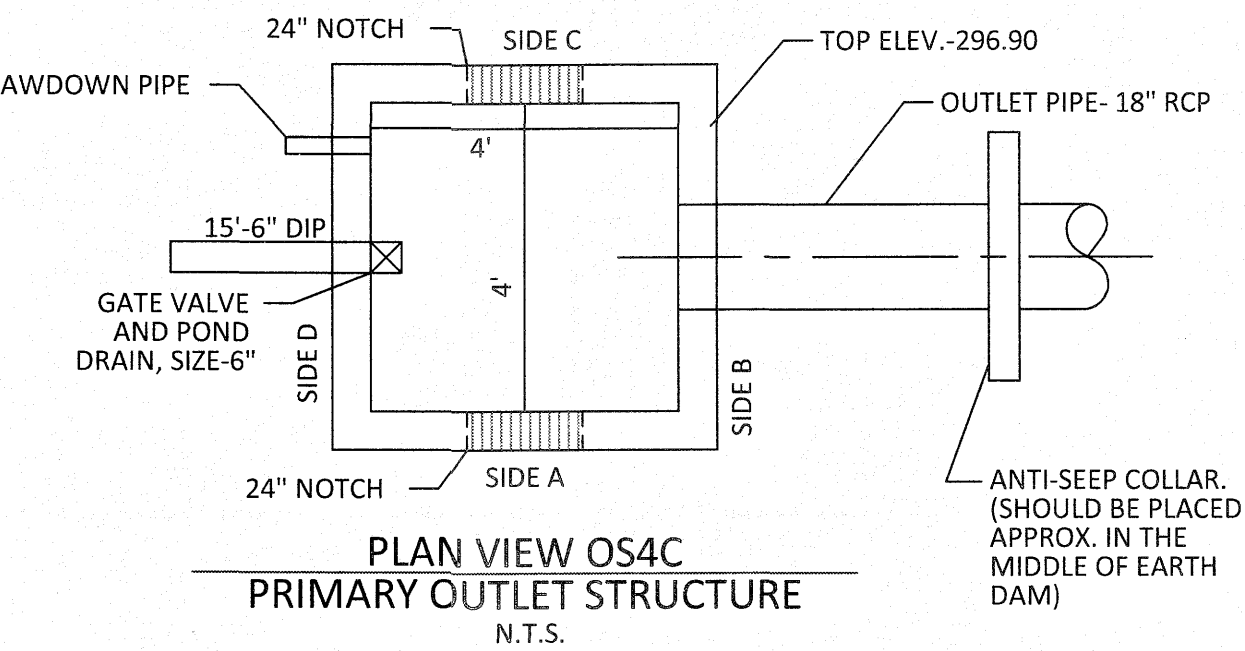
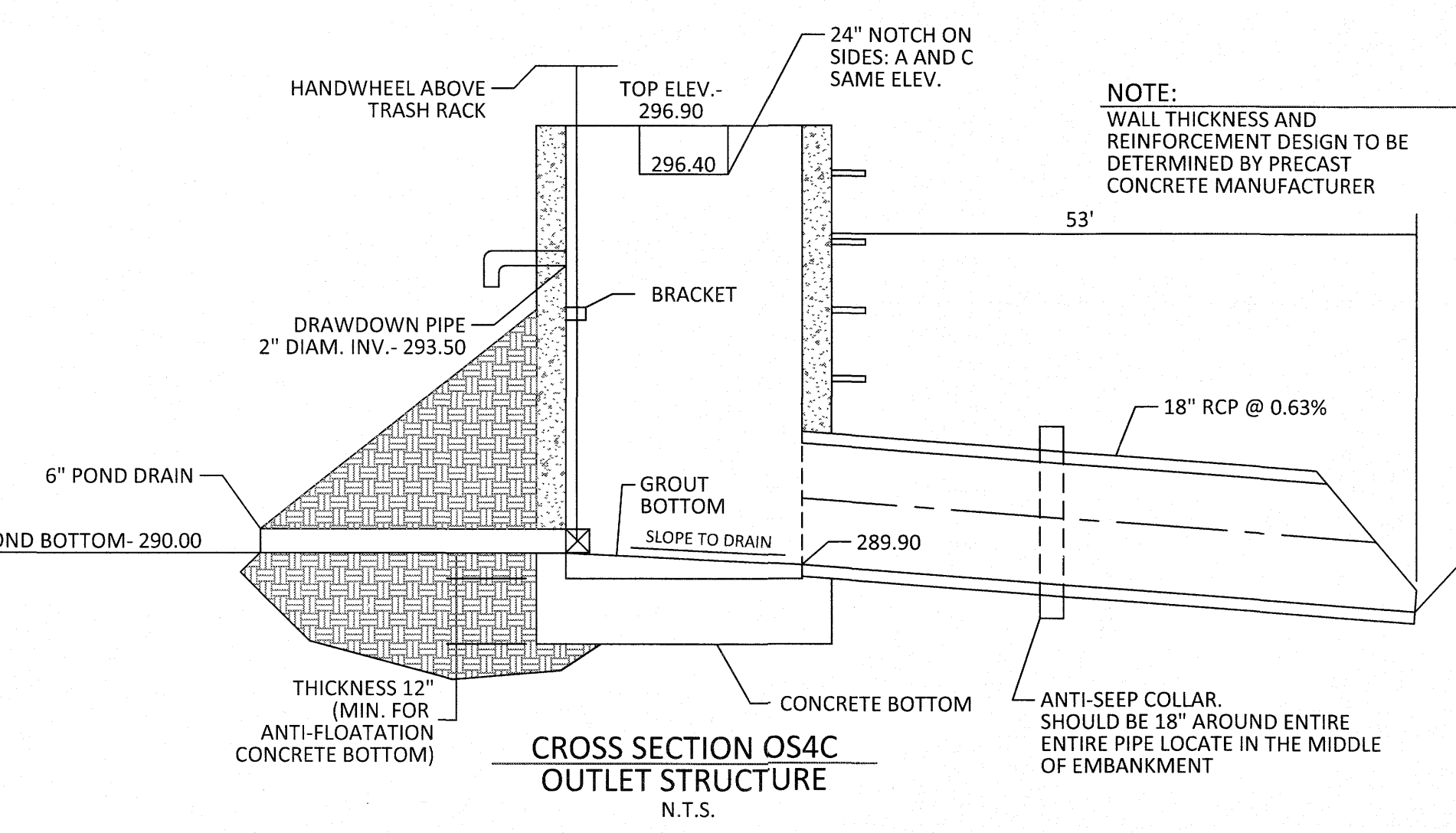
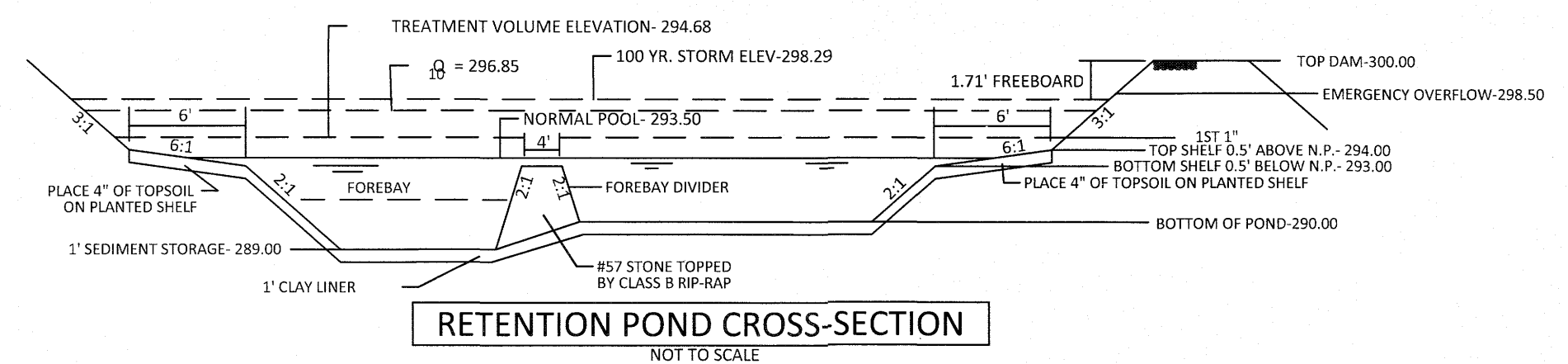
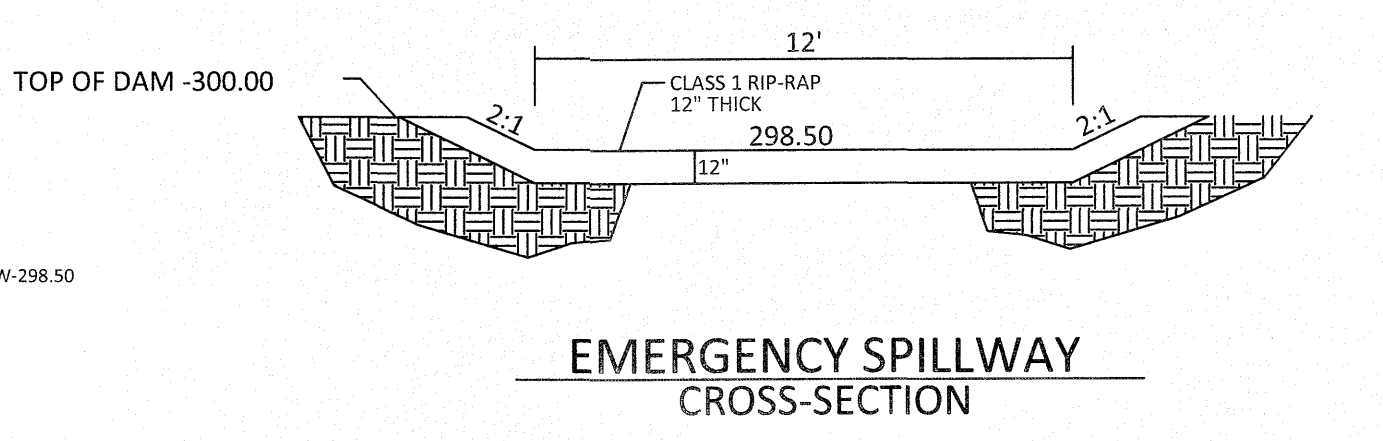
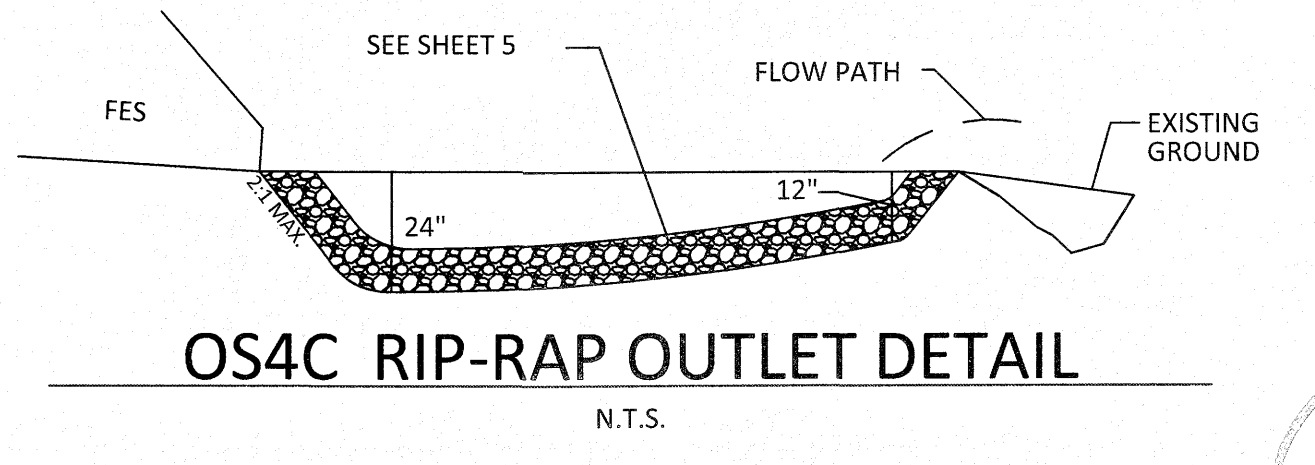
- TRASH RACK NOTES**
1. TRASH RACK SHALL BE 6" CLEAR OF STRUCTURE TOP AND SIDES. THE TRASH RACK NEED NOT COVER THE TREATMENT OUTLET PIPE.
  2. IF STRUCTURE FEATURES ANY WEIR NOTCHES THE TRASH RACK WILL EXTEND 5" BELOW THE NOTCHES. (SEE CROSS-SECTION OF THE OUTLET STRUCTURE.)
  3. TRASH RACK SHALL BE 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").

**PLANT LIST LITTORAL SHELF PLANT SCHEDULE:**

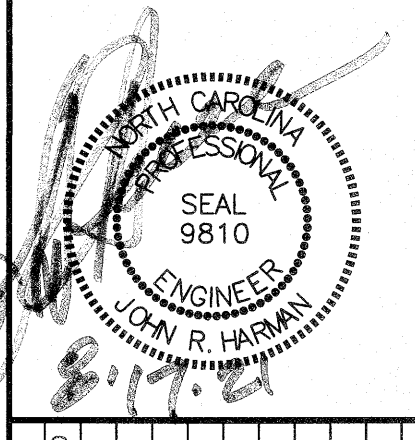
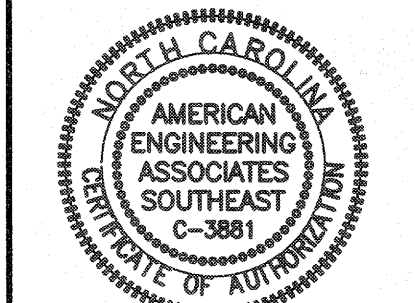
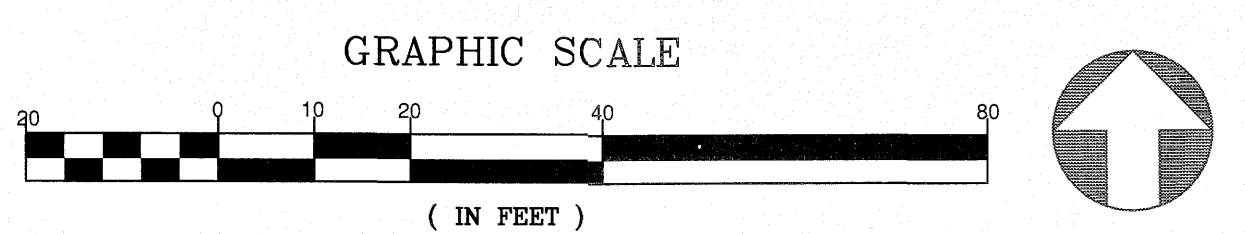
SHALLOW LAND (HERB.)			
EF EUPATORIUM FISTRULOSUM	JOE PYE WEED	4-6" POT @ 3' SPACING	
HC HIBISCUS COCCINEA	SCARLET ROSE MALLOW	4-6" POT @ 3' SPACING	
CG CHELONE GLABRA	WHITE TURTLEHEAD	4-6" POT @ 3' SPACING	
LC LOBELIA CARDINALIS	CARDINAL FLOWER	4-6" POT @ 3' SPACING	
SHALLOW WATER (HERB.)			
JE JUNCUS EFFUSUS	SOFTTRUSH	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= 2,039 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



- 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.

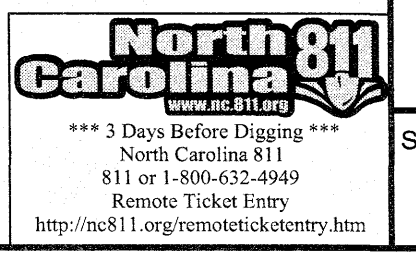


NO. 1 DATE 7/21/2021 REVISION: LIST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF HAZLEHURST

**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.

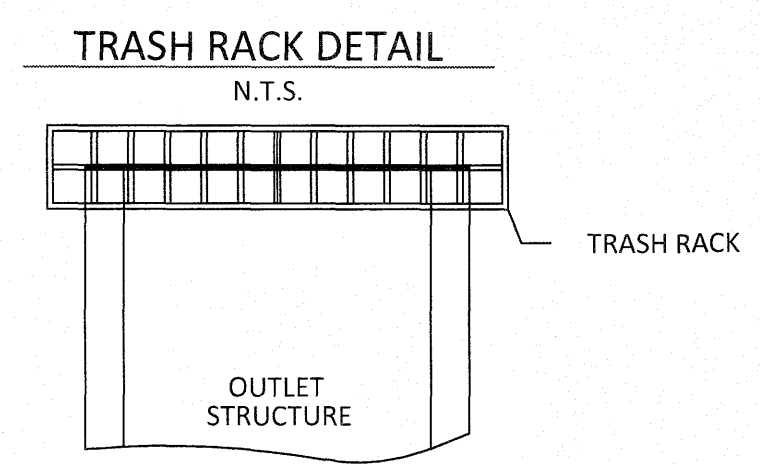
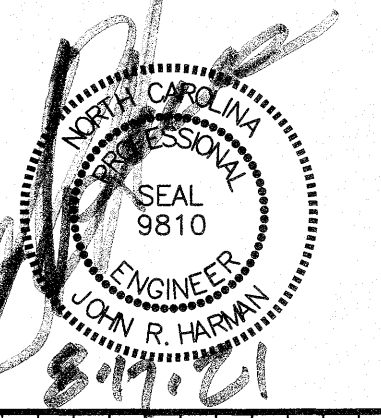
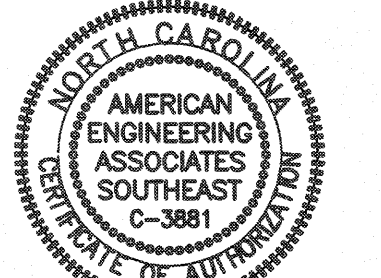
**KALAS FALLS PHASE 3**  
1832 ROLESVILLE ROAD  
WAKE COUNTY, NC

JOB NUMBER:	9900
CHECKED BY:	
DRAWN BY:	
DATE:	FEB 18, 2021
SHEET TITLE:	SCM 4C DETAILS
SHEET NO.:	4.9

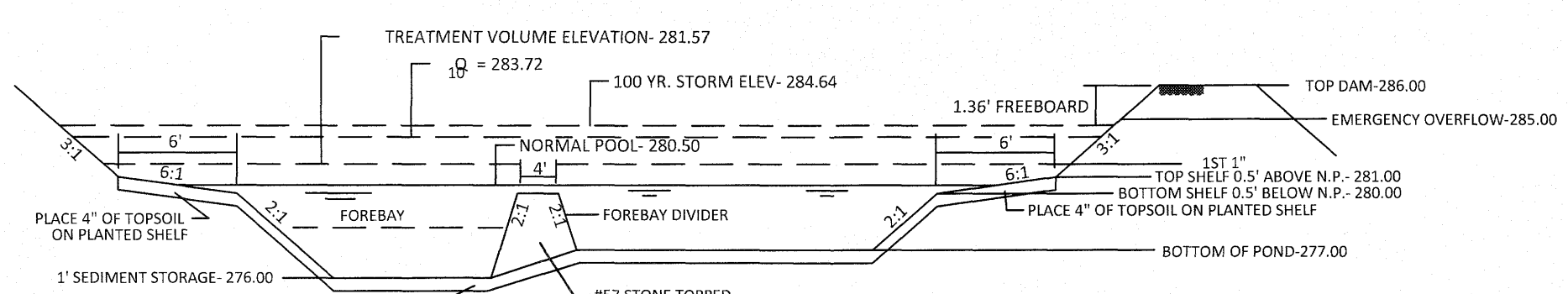




JONATHAN V. GILLIS  
 ZONING: R-30  
 D.B. 4974, PG. 38  
 TRACT 2 B.M. 1987 PG. 1527  
 PIN NO. 1758.04-90-8610  
 REAL ESTATE ID: 0163469



- 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.
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  - MAX. OPENING IN TRASH RACK SHALL BE 5"x5"
  - TOP OF TRASH RACK SHALL HAVE A GRID OF BARS (MAX. 6"x6").



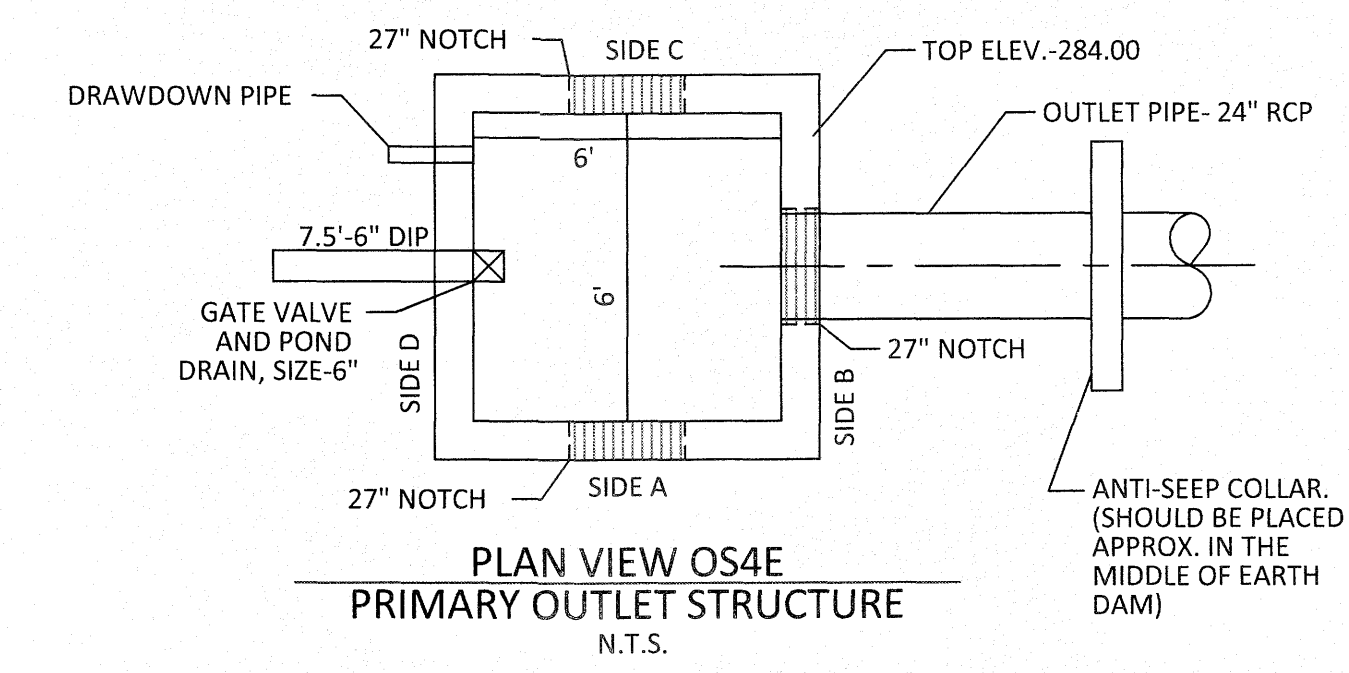
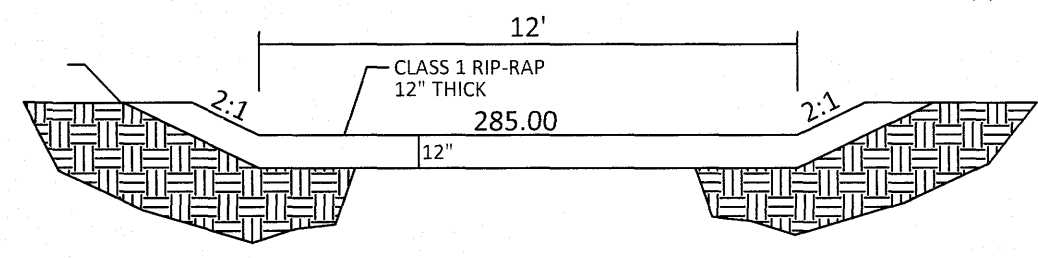
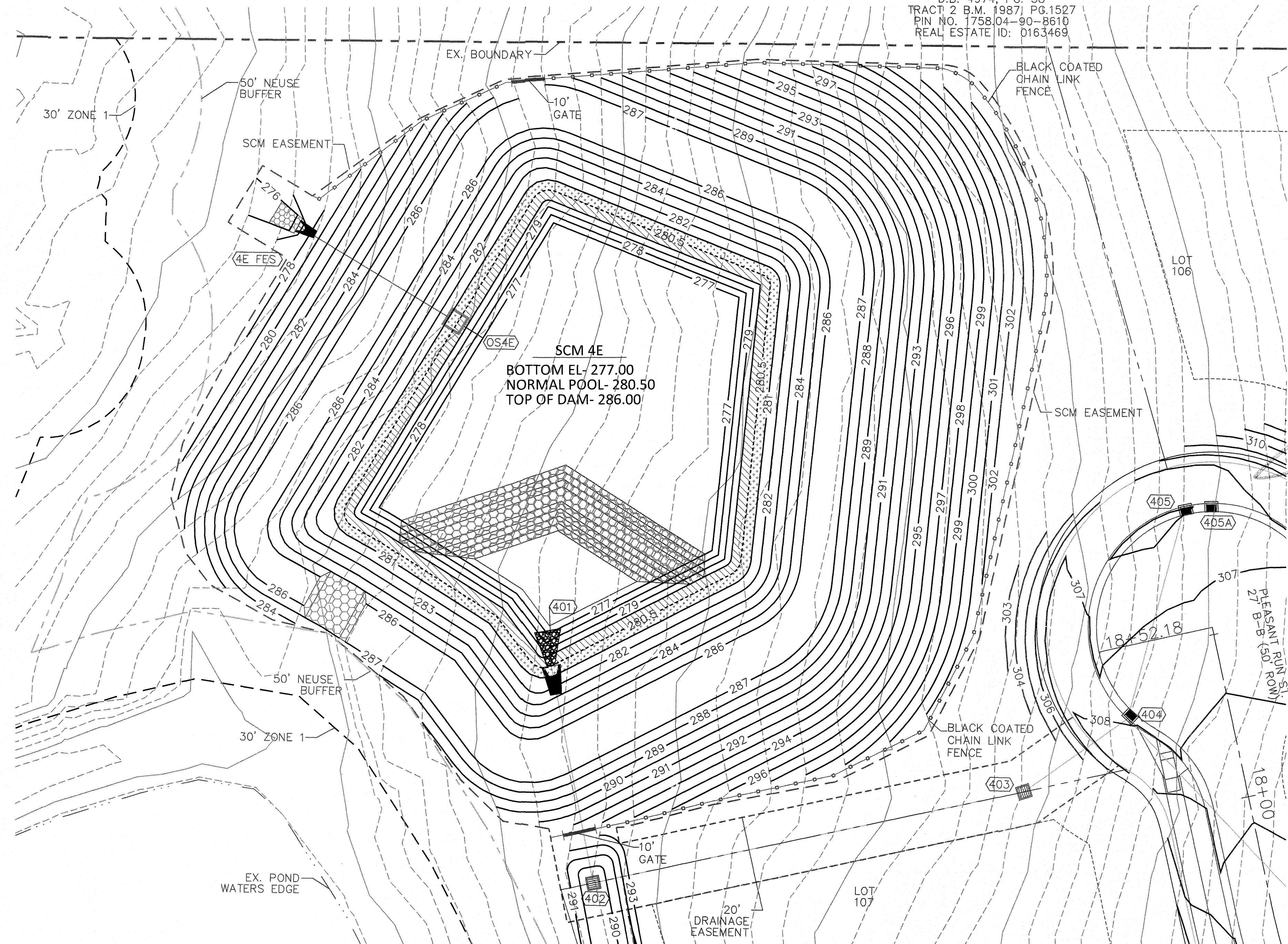
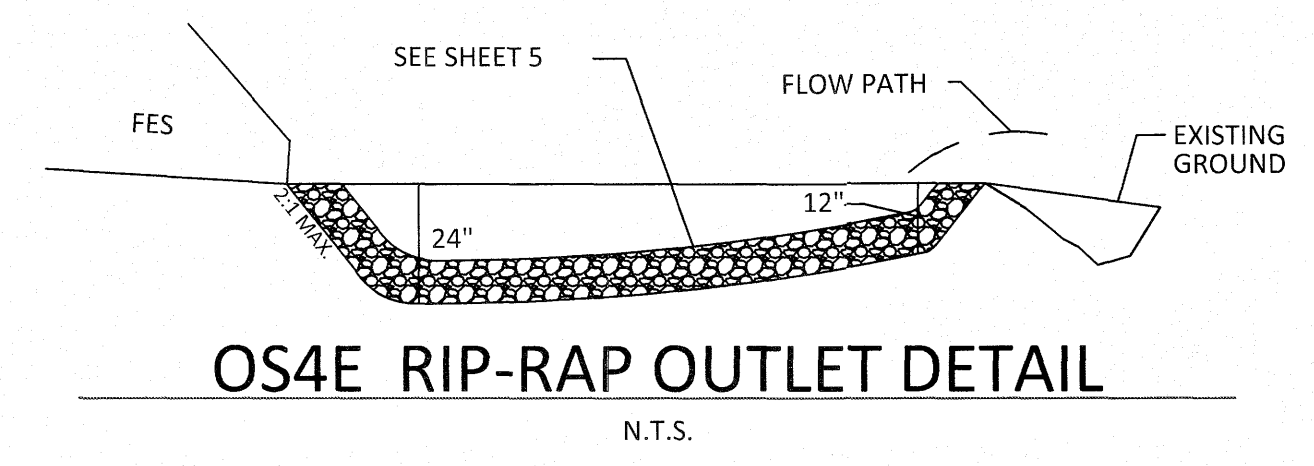
**PLANT LIST LITTORAL SHELF PLANT SCHEDULE:**

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

4-6" POT @ 3' SPACING

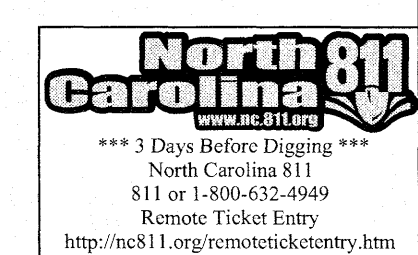
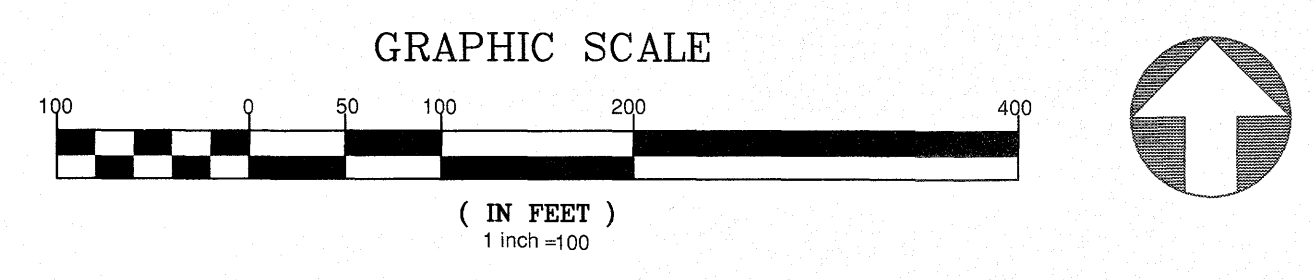
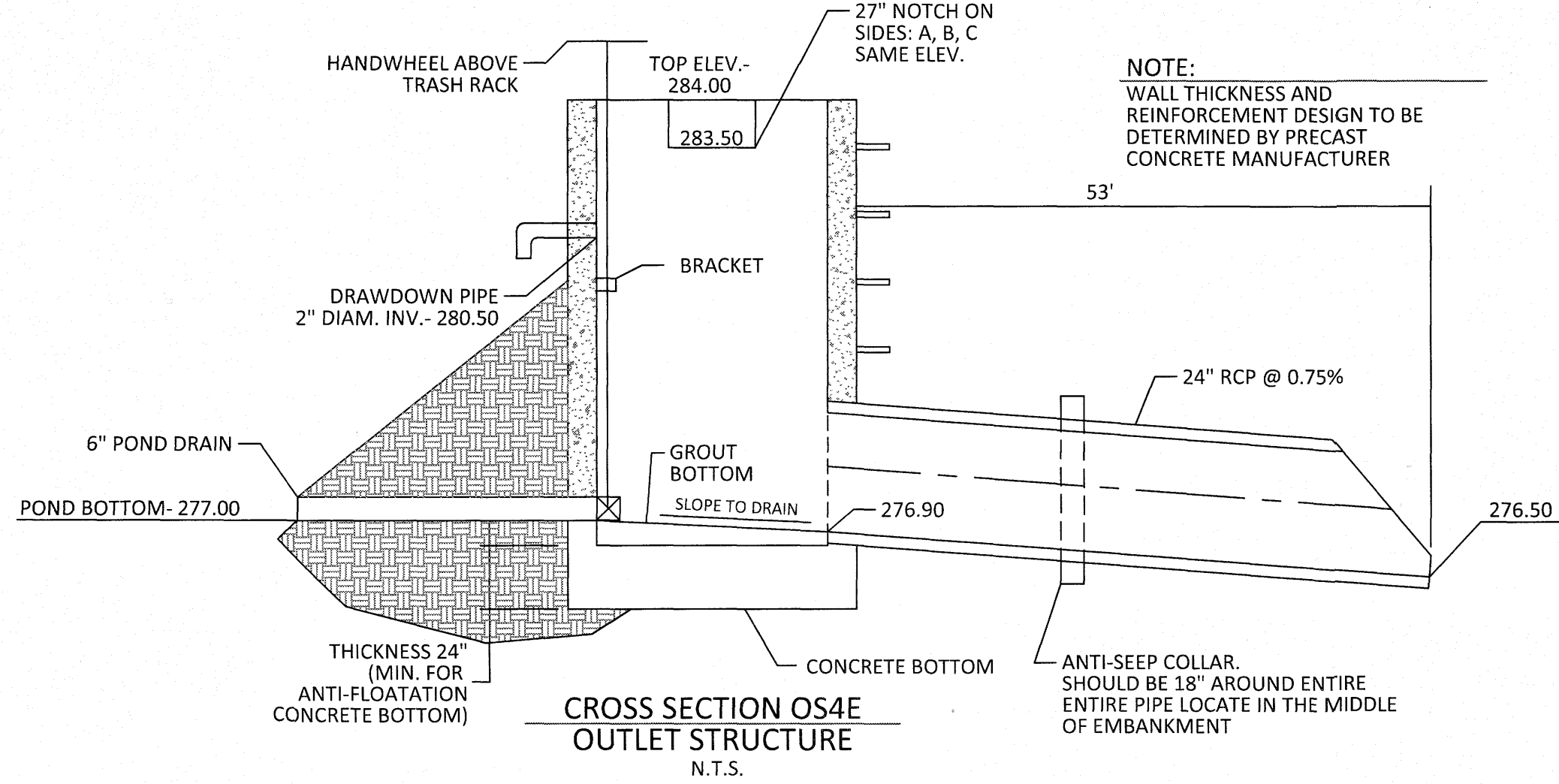
**LANDSCAPE PLAN:**  
 SHALLOW LAND= 1,290 sf (USE 322 PLANTS FROM LIST ABOVE)  
 SHALLOW WATER= 1,233 sf (USE 308 PLANTS FROM LIST ABOVE)  
 USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF



- 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.
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  - 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.



REVISIONS:

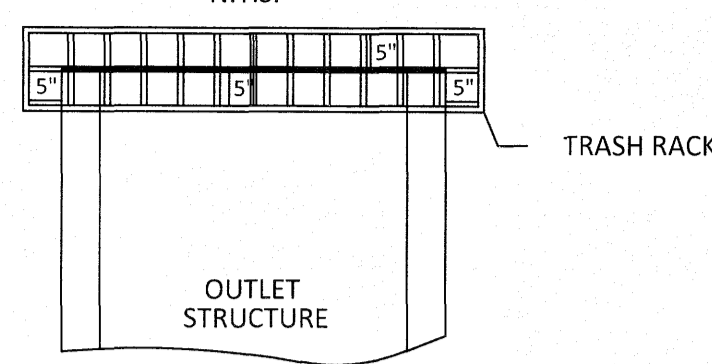
NO.	DATE	DESCRIPTION
1	7/27/2021	REVISED FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF HARRINGTON

**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 REUSE OR REPRODUCTION BY ANY OTHER ARCHITECTS AND ENGINEERS, REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

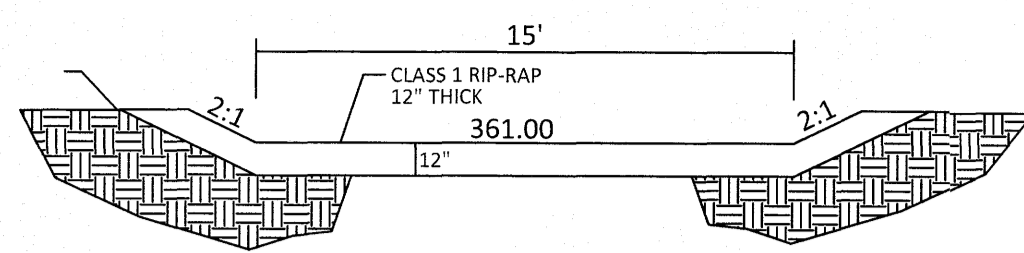
**KALAS FALLS PHASE 3**  
 1832 ROLESVILLE ROAD  
 WAKE COUNTY, NC

JOB NUMBER:	9900
CHECKED BY:	
DRAWN BY:	
DATE:	FEB 18, 2021
SHEET TITLE:	SCM 4E DETAILS
SHEET NO.:	4.10

**TRASH RACK DETAIL**  
N.T.S.



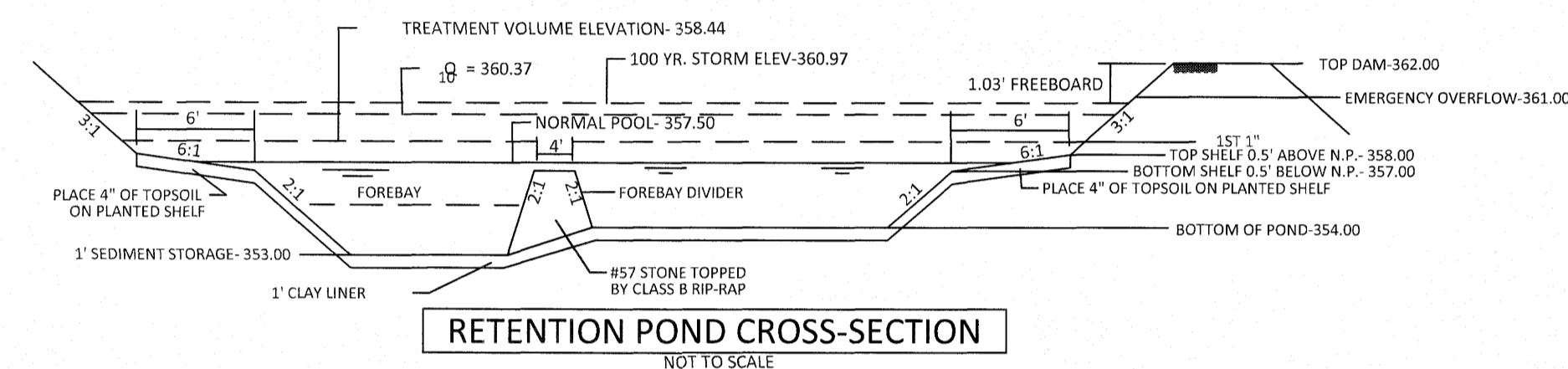
TOP OF DAM -362.00



**EMERGENCY SPILLWAY CROSS-SECTION**

**TRASH RACK NOTES**

1. TRASH RACK SHALL BE 6" CLEAR OF STRUCTURE TOP AND SIDES. THE TRASH RACK NEED NOT COVER THE TREATMENT OUTLET PIPE.
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

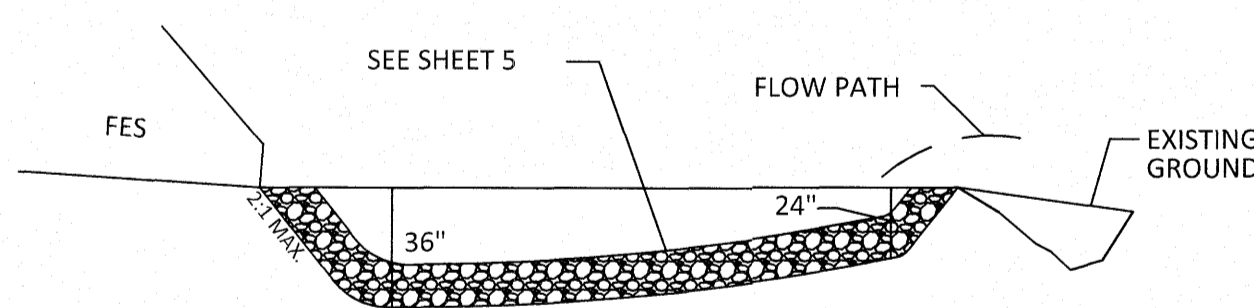
**PLANT LIST LITTORAL SHELF PLANT SCHEDULE:**

SHALLOW LAND (HERB.)	PLANT	SPACING
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.)	PLANT	SPACING
JE	JUNCUS EFFRUSUS	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

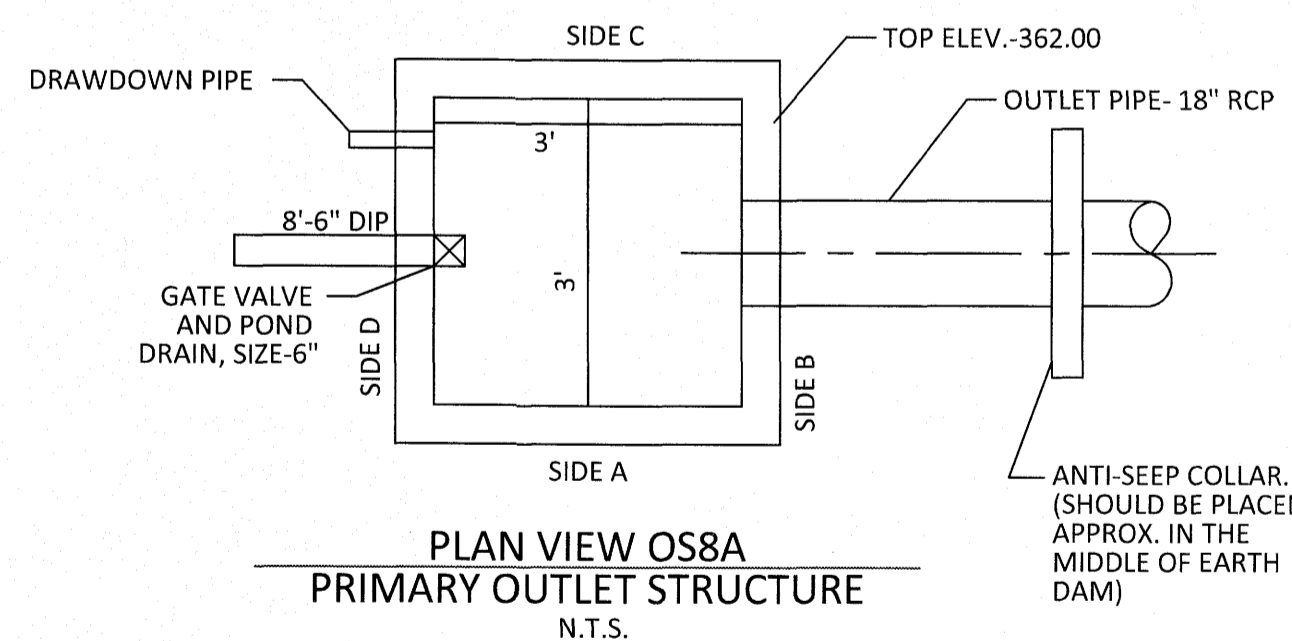
**LANDSCAPE PLAN:**

SHALLOW LAND= 1,008 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

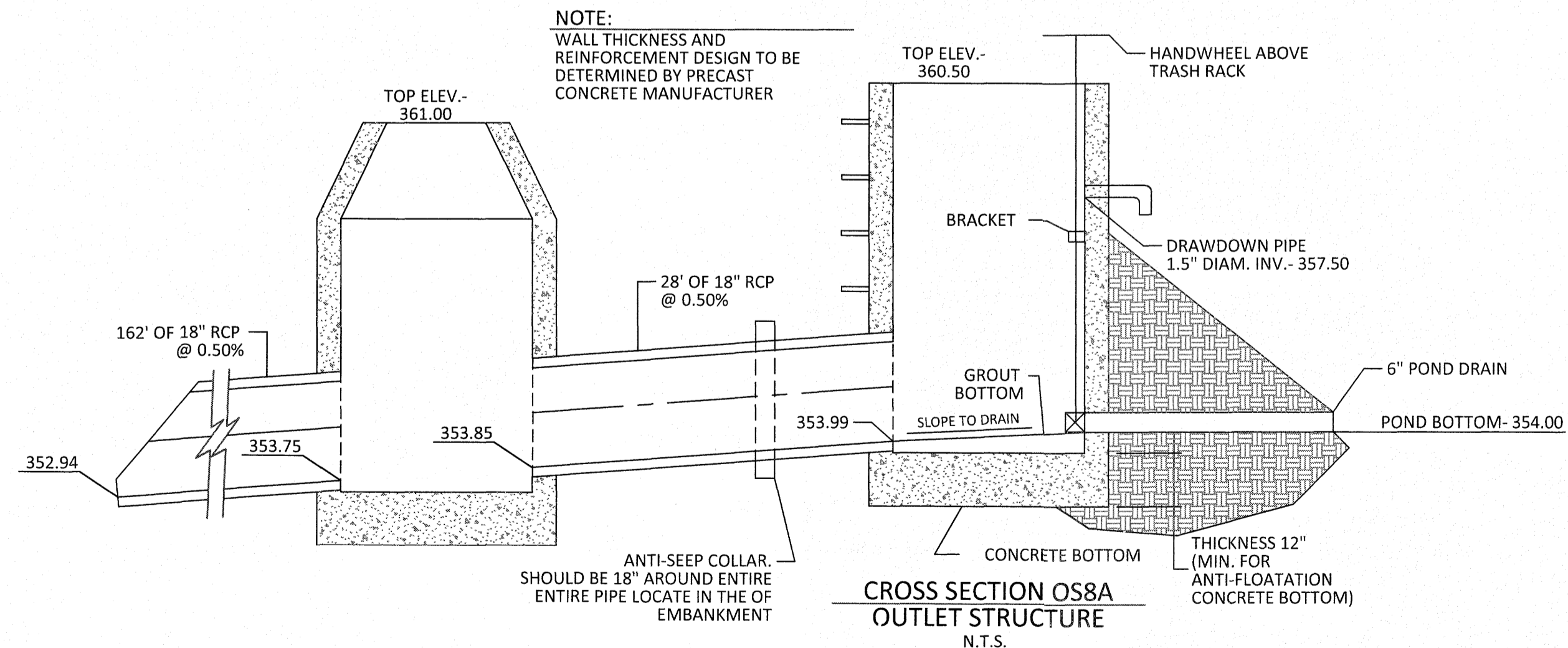
CALCULATION: 50 PLANTS PER 200 SF



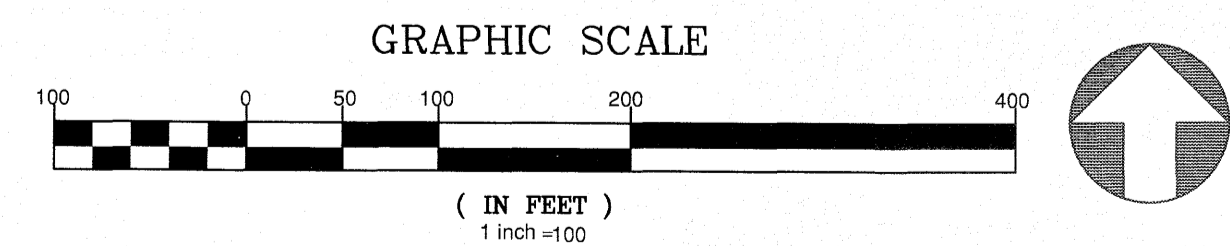
**OS8A RIP-RAP OUTLET DETAIL**  
N.T.S.



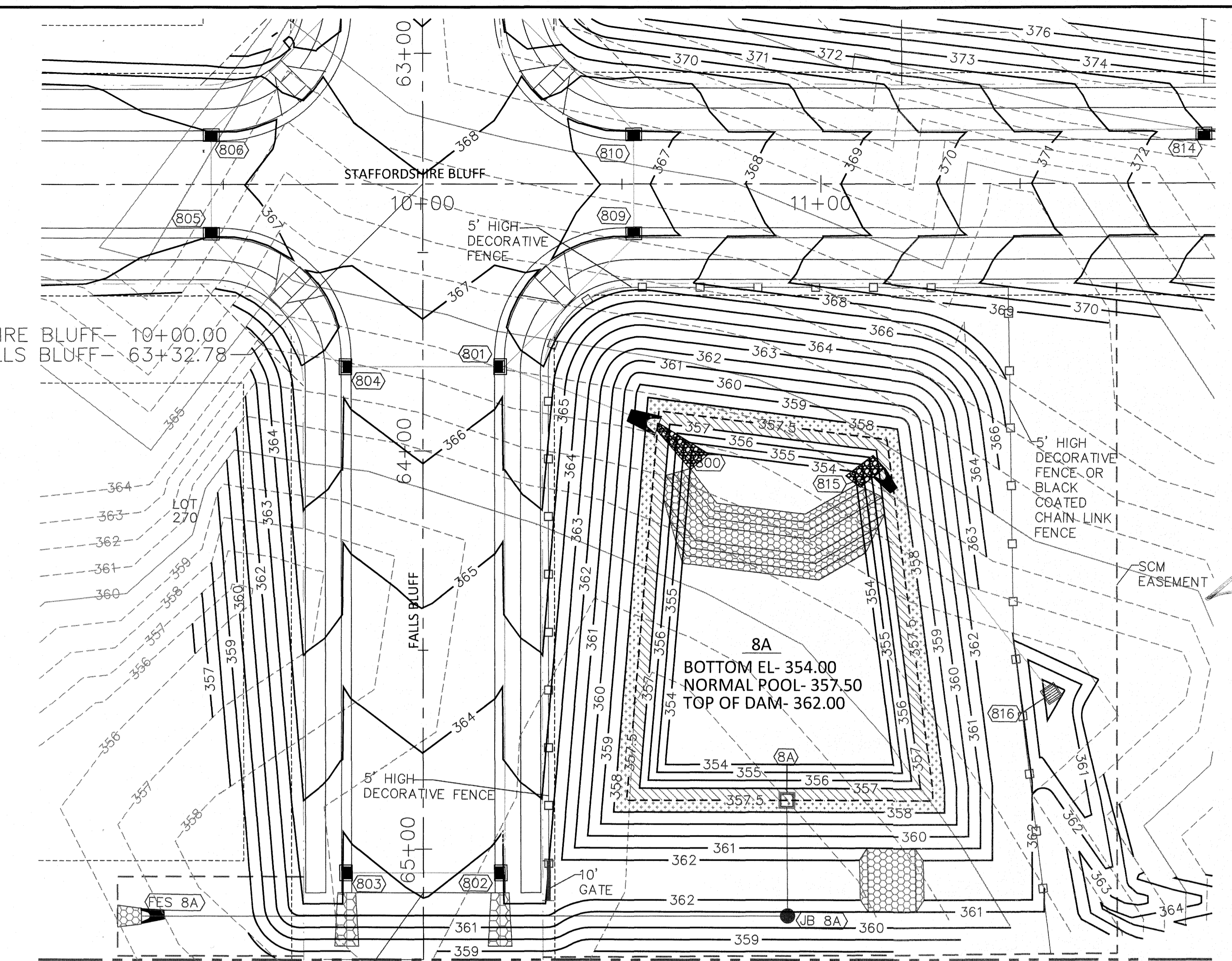
**PLAN VIEW OS8A PRIMARY OUTLET STRUCTURE**  
N.T.S.



**CROSS SECTION OS8A OUTLET STRUCTURE**  
N.T.S.

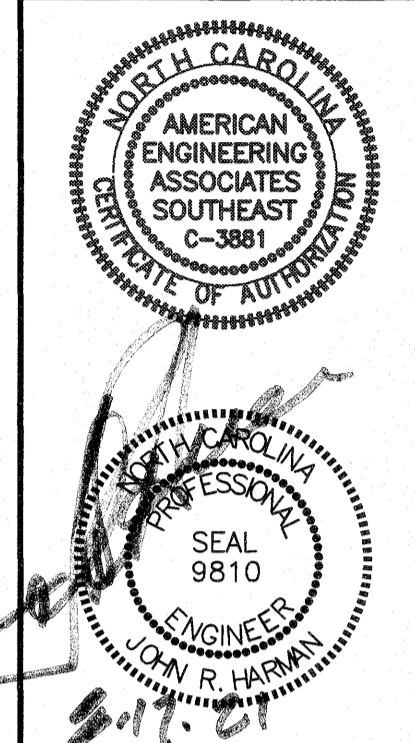


STAFFORDSHIRE BLUFF - 10+00.00  
FALLS BLUFF - 63+32.78



JONES PROPERTIES, LLC  
ZONING: R-30  
D.B. 13842, PG. 1231  
LOT 4A  
B.M. 1983, PG. 1477  
PIN NO. 1757.02-97-2579  
REAL ESTATE ID: 0037355

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



NO.	DATE	REVISION
1	7/21/2021	LIST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH

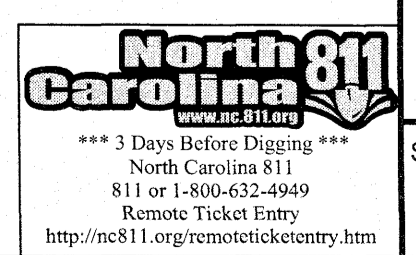
**STIPULATION FOR REUSE**  
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**KALAS FALLS PHASE 3**  
1832 ROLESVILLE ROAD  
WAKE COUNTY, NC

JOB NUMBER: 9900  
CHECKED BY:  
DRAWN BY:  
DATE: FEB 18, 2021

SHEET TITLE:  
**SCM 8A DETAILS**

SHEET NO.:  
**4.11**





**SITE DATA**

OWNER: MITCHELL MILL ROAD INVESTORS, LLC  
 105 WESTON ESTATES WAY  
 CARY, NC 27519

PARCEL ADDRESS: 1600 & 1832 ROLESVILLE ROAD  
 ROLESVILLE NC

PIN NUMBER: 1767-17-8299, 1767-08-3228,  
 1768-00-2153, 1767-29-5866

DEED BOOK: DB 011940 PG 01155, DB 012007 PG 02228

DEEDED ACREAGE: 284.44 AC

TOTAL PROJECT AREA: 282.73 AC (MINUS ROW AREA TO RD CL)

GOVERNMENTAL USE: 1.91 AC

TOTAL AREA IN FUTURE TOWNHOMES: 17.01 AC

AREA IN ROW: 38.57 AC

AREA IN OPEN SPACE PROVIDED: 96.75 AC

AREA IN LOTS: 128.47 AC

EXISTING ZONING: R & 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%

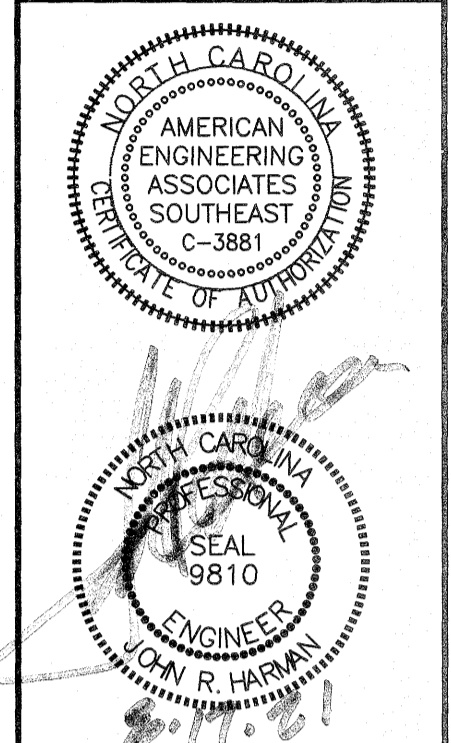
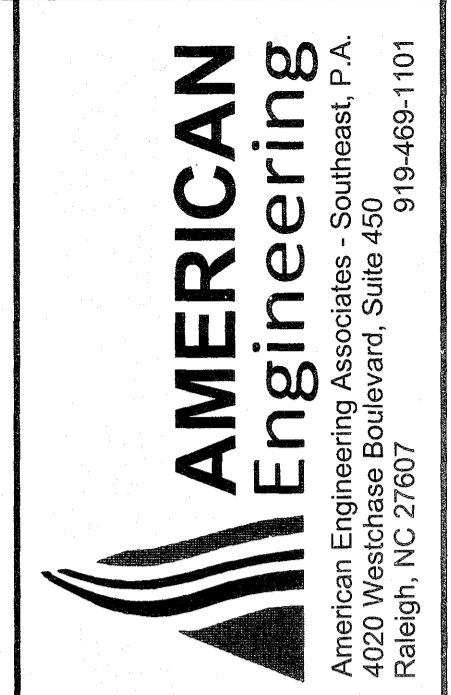
**SETBACK TABLE SINGLE FAMILY**

	50'	50' 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'

**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 EASEMENT
- PROPOSED HANDICAP RAMPS
- PROPOSED SIGHT TRIANGLE
- TOT LOT
- POCKET PARK
- MAIL KIOSK LOCATION (MK)
- OPEN SPACE
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- GREENWAY/ROADSIDE TRAIL
- FUTURE PHASING
- EXISTING PHASING
- EXISTING WETLANDS
- PROPOSED SWALE (AT TIME OF LOT GRADING)
- PROPOSED PHASELINE



REVISIONS

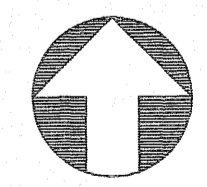
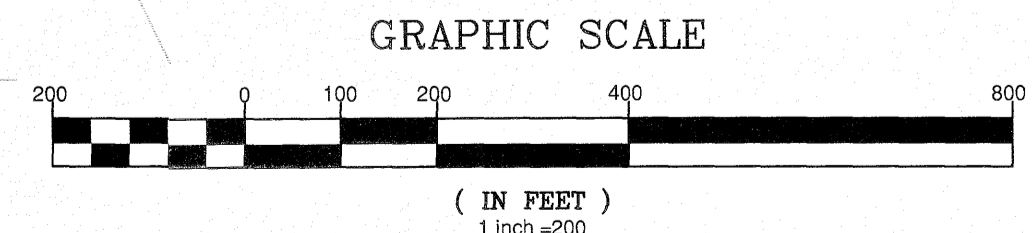
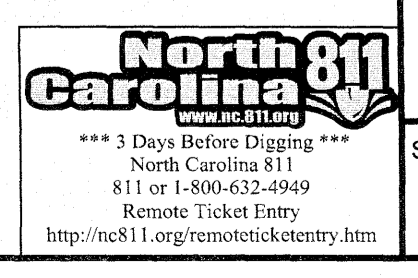
NO.	DATE	REVISION
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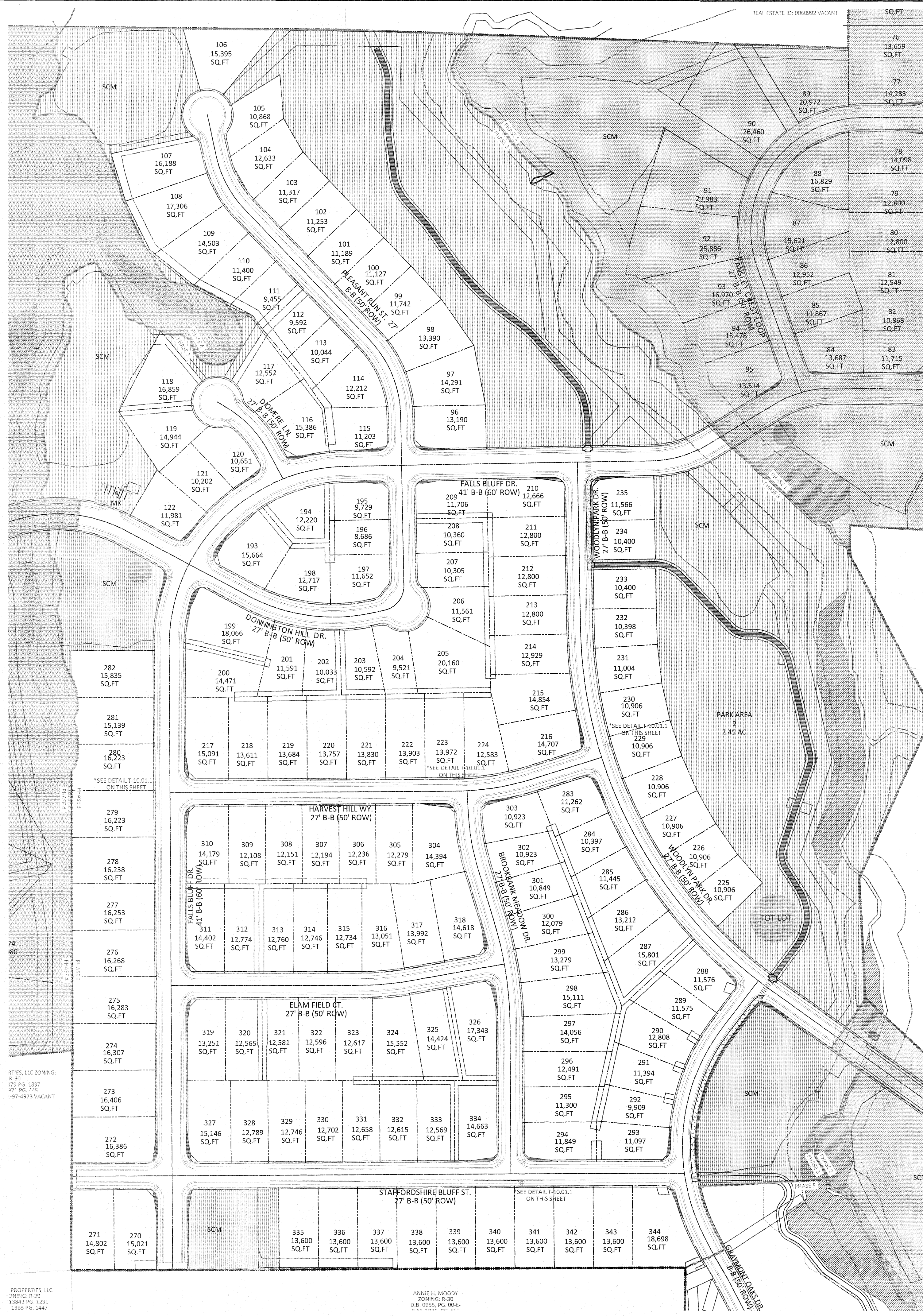
**STIPULATION FOR REUSE**

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:  
 DRAWN BY:  
 DATE: FEB 18, 2021  
 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"

Impervious Area (in acres)

Type	DA#3	DA#4	DA#8	Totals
Roadway/Walks in R/W	6.240	5.857	0.386	12.483
Single Family Residential	6.540	9.923	1.256	17.719
Other (Greenway Trail)	0.481			0.481
Other (Mail Kiosk)		0.081		0.081
Totals	13.261	15.861	1.642	30.764

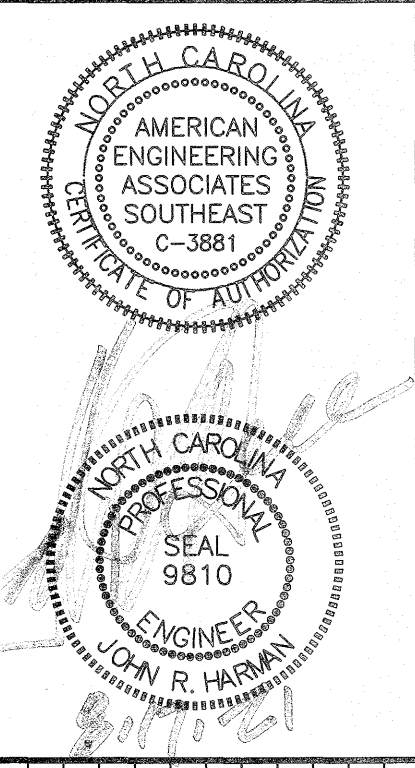
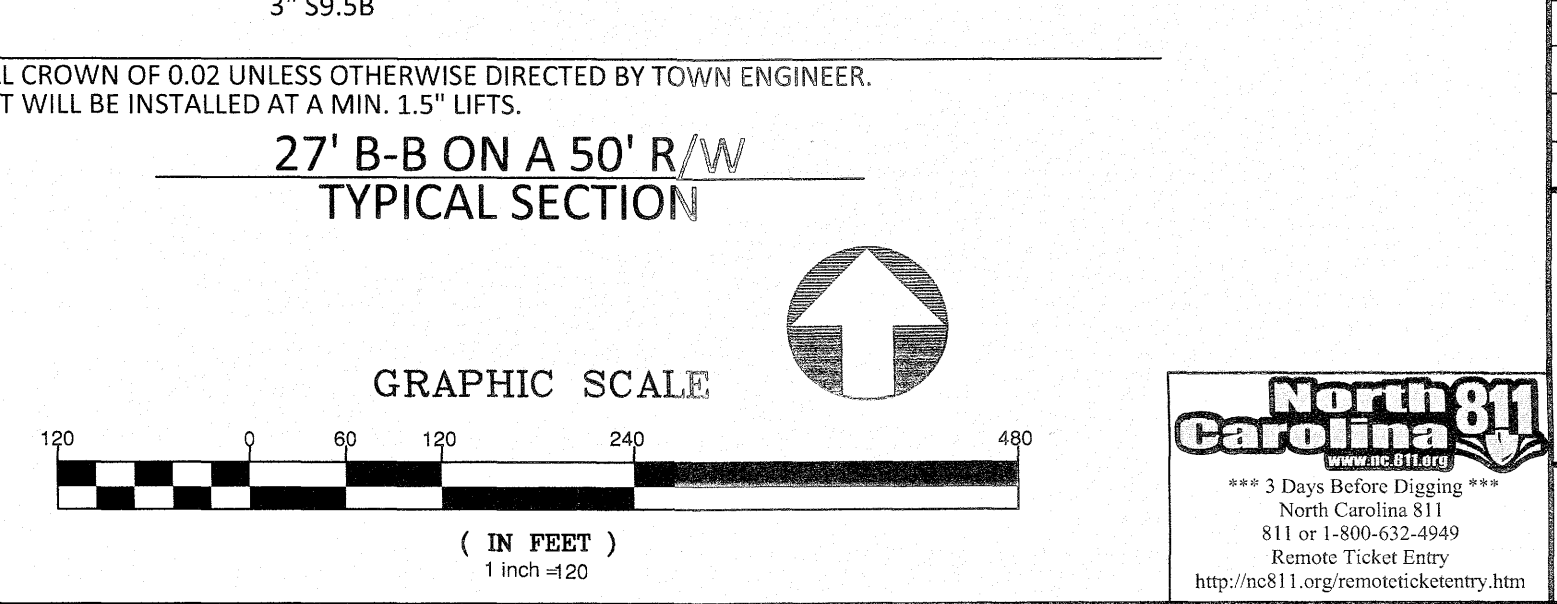
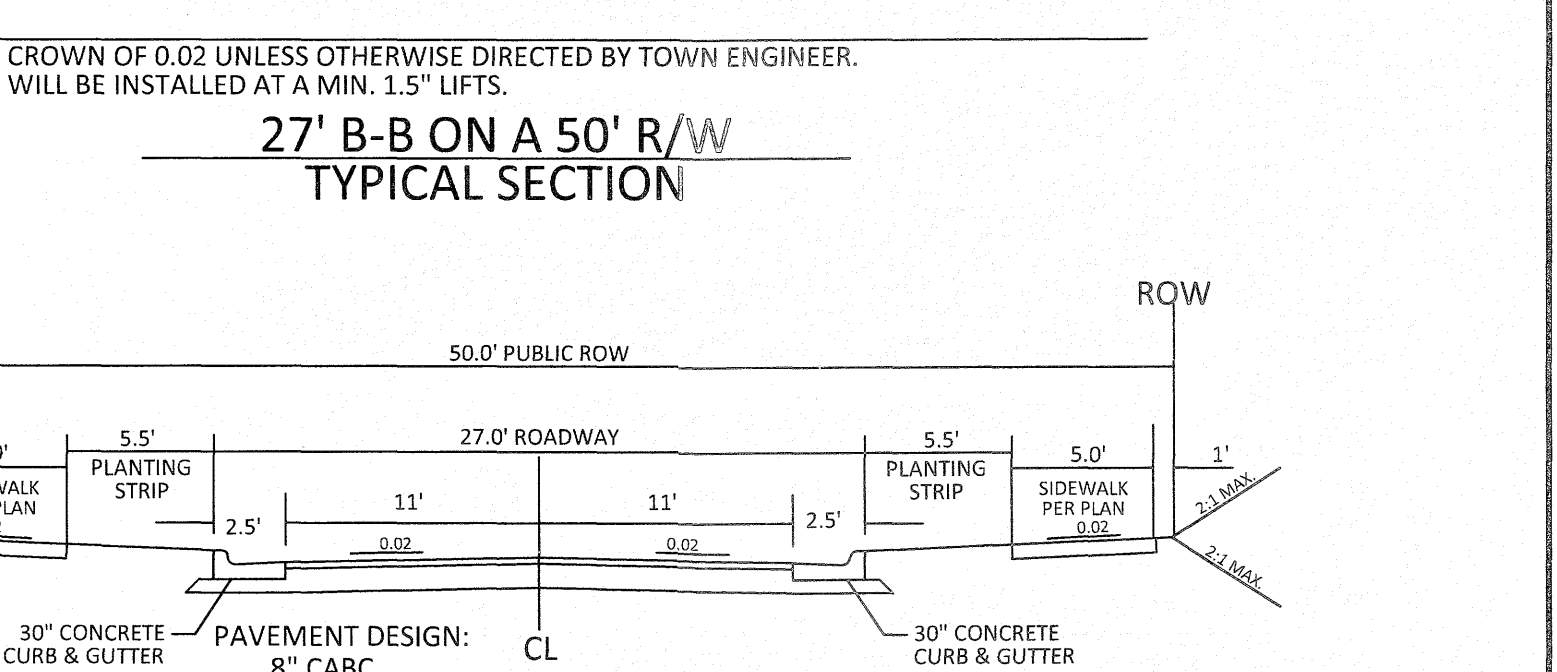
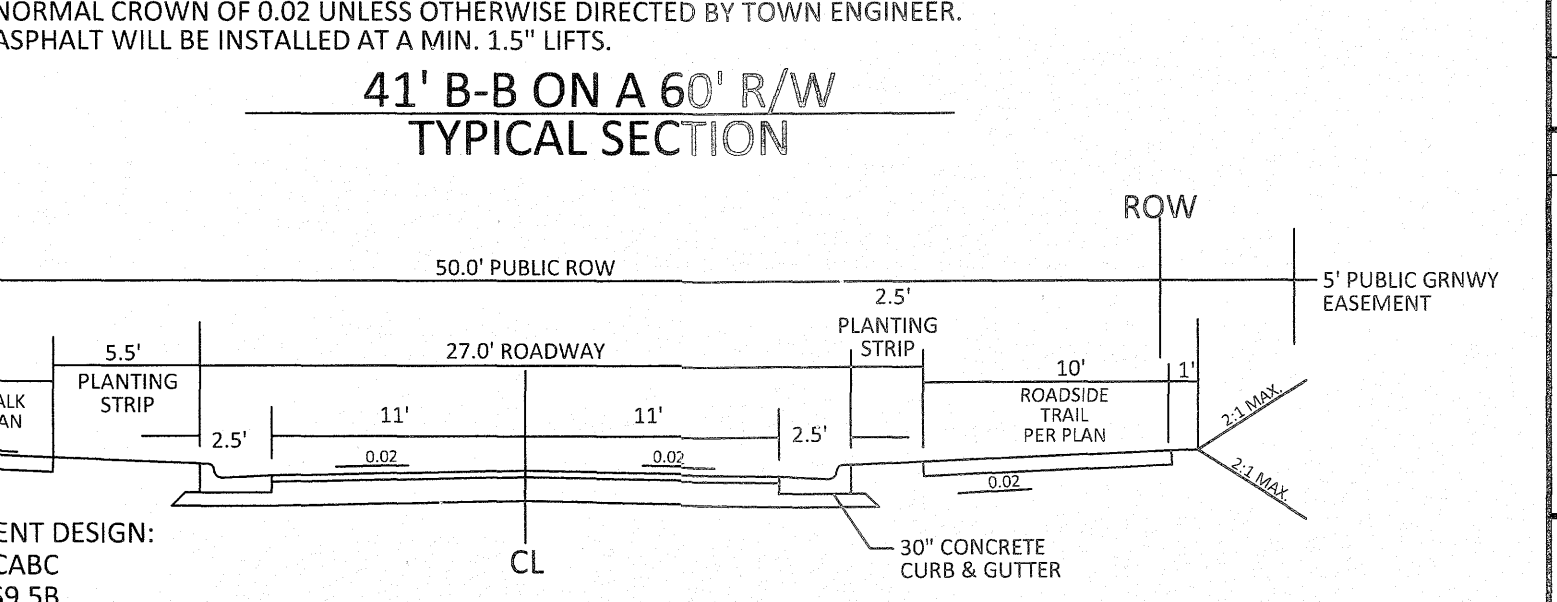
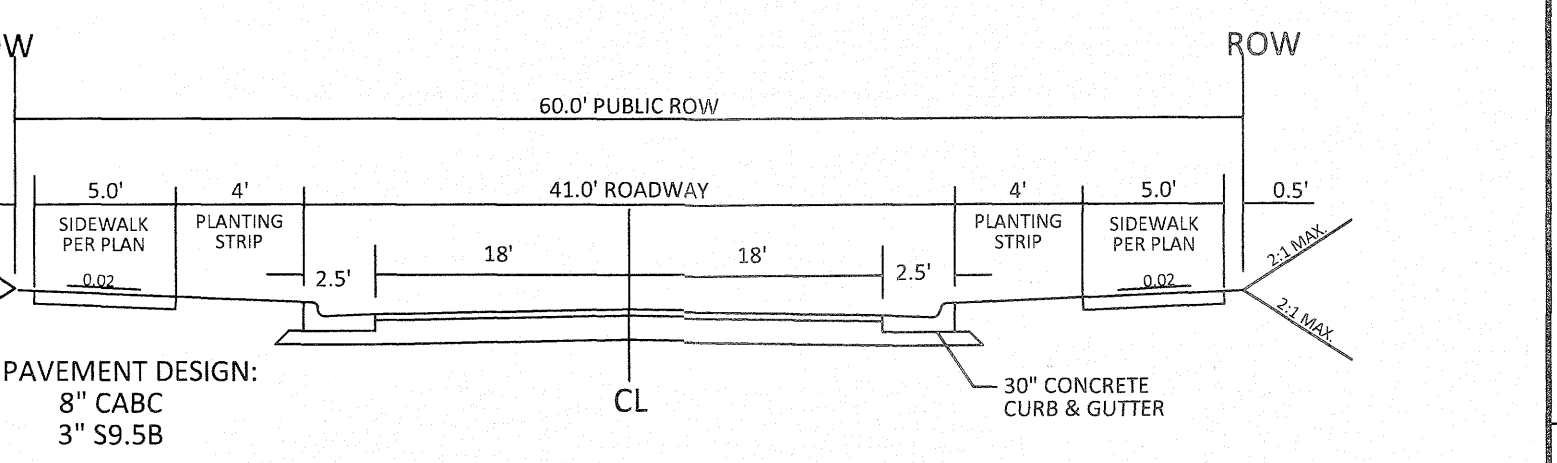
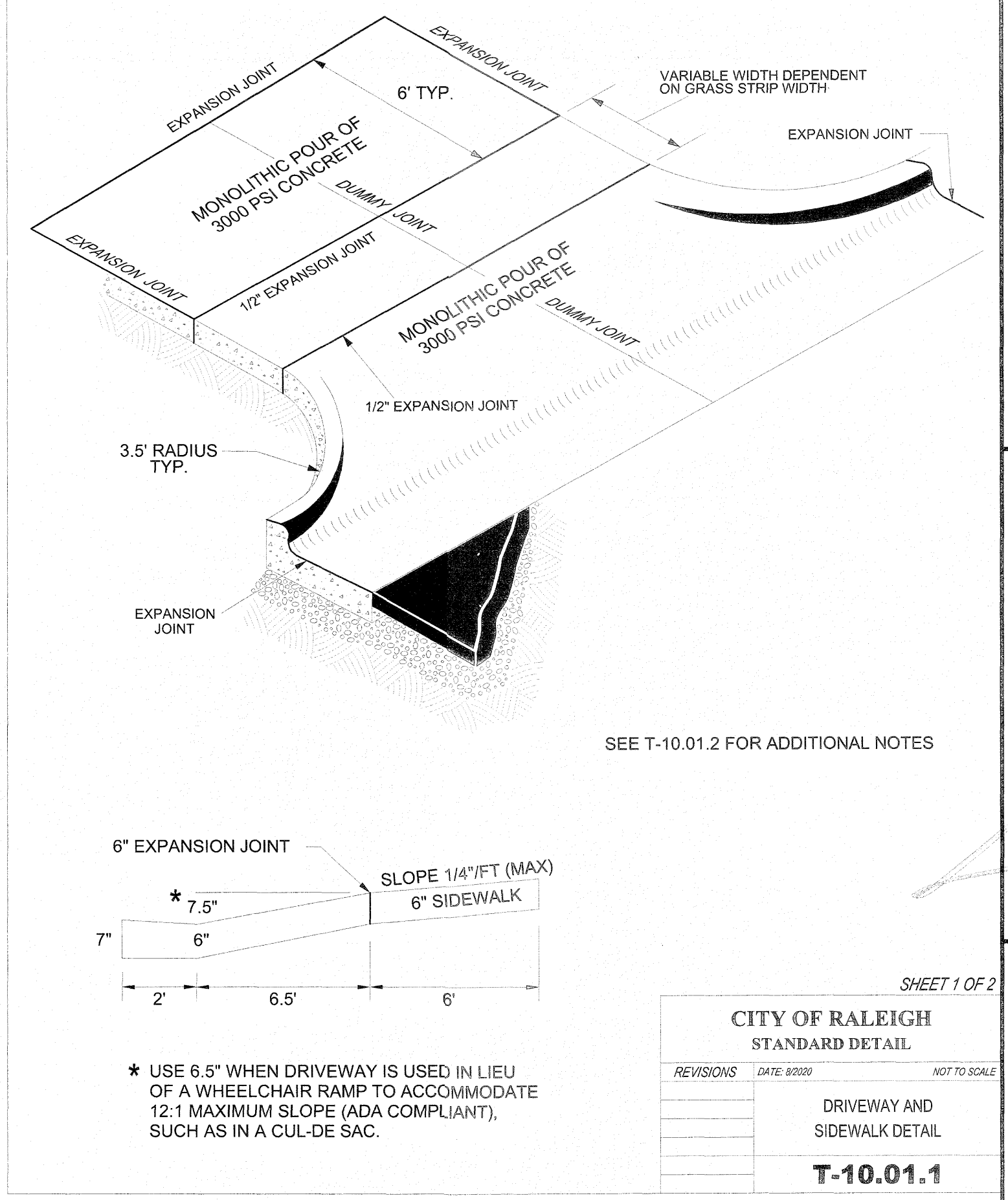
PHASE 3 SITE DATA

TOTAL AREA IN LOTS	18,841,525SF/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	33.44 AC

GENERAL NOTE:  
1. SIGHT DISTANCE TRIANGLES ARE 10'x70'. WHERE SIGHT LINES ENCR OACH ONTO A PRIVATE LOT A SIGHT EASEMENT IS REQUIRED.  
2. BACK OF CURB RADIUS AT INTERSECTIONS- RESIDENTIAL-COLLECTOR- 28' 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
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- OPEN SPACE
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- GREENWAY/ROADSIDE TRAIL
- FUTURE PHASING
- EXISTING PHASING
- EXISTING WETLANDS
- PROPOSED SWALE (AT TIME OF LOT GRADING)
- PROPOSED PHASELINE



REVISIONS

NO.	DATE	DESCRIPTION
1	1/22/2021	LIST FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND LIST OF RALEIGH

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

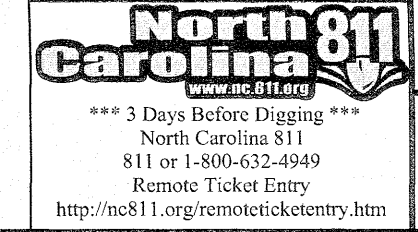
KALAS FALLS  
PHASE 3  
1832 ROLESVILLE ROAD  
WAKE COUNTY, NC

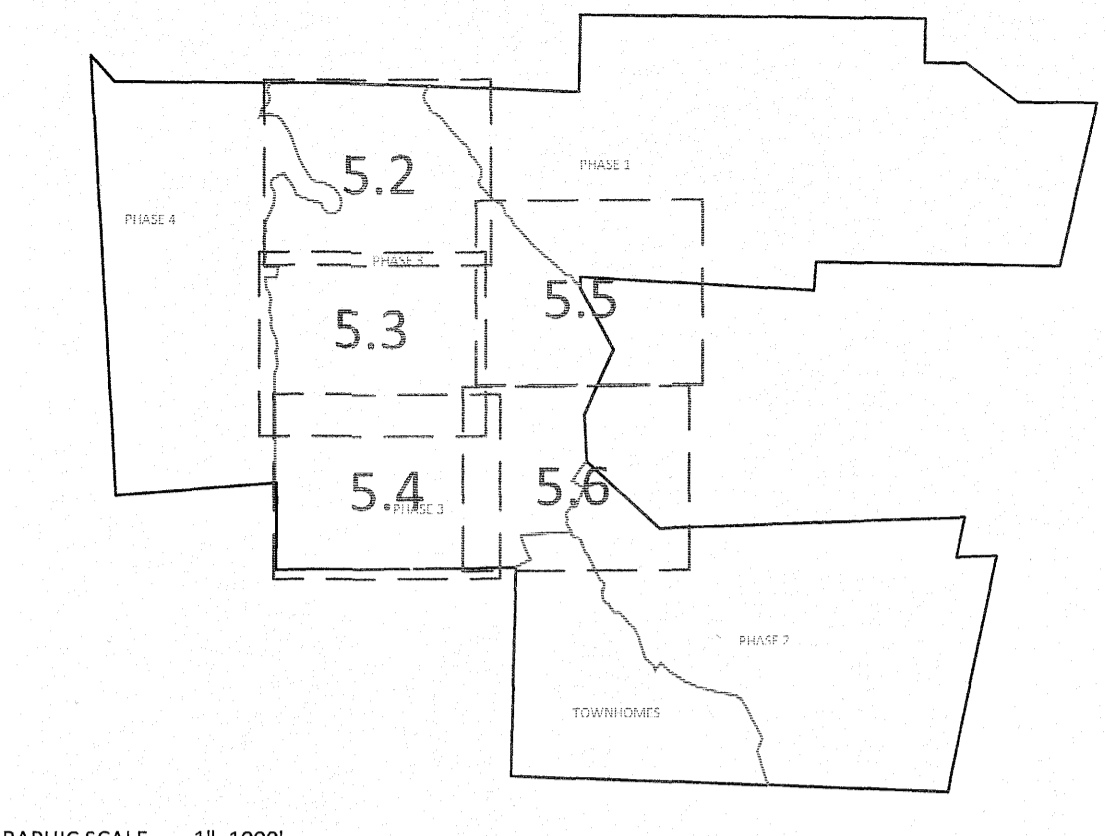
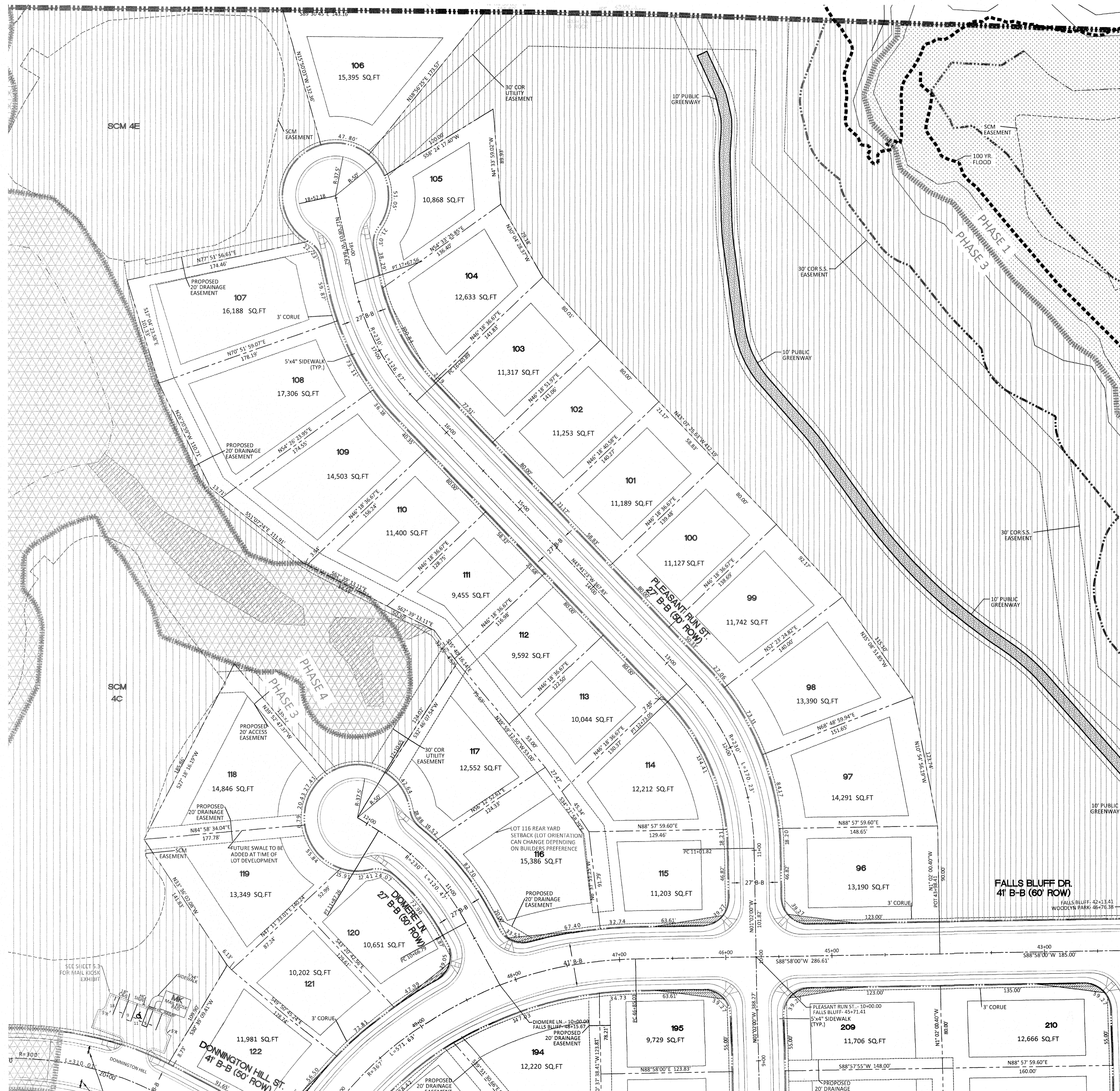
JOB NUMBER: 9900  
CHECKED BY:  
DRAWN BY:  
DATE: FEB 18, 2021  
SHEET TITLE:  
**PHASE 3 SITE PLAN**  
SHEET NO.: 5.1

August 16, 2023  
2:\backslash\00000\Wakos Phase 3\Phase 3\Drawings\1832Rd\1832Rd\Phase 3\Site Plan.dwg  
ATIES, LLC ZONING: R-30  
179 PG. 1897  
771 PG. 445  
99-4879 VACANT

PROPERTIES, LLC  
ZONING: R-30  
1363 PG. 1231  
2963 PG. 2487

ANNIE H. MOODY  
ZONING: R-30  
D.B. 0955, PG. 004  
0.4 AC VACANT





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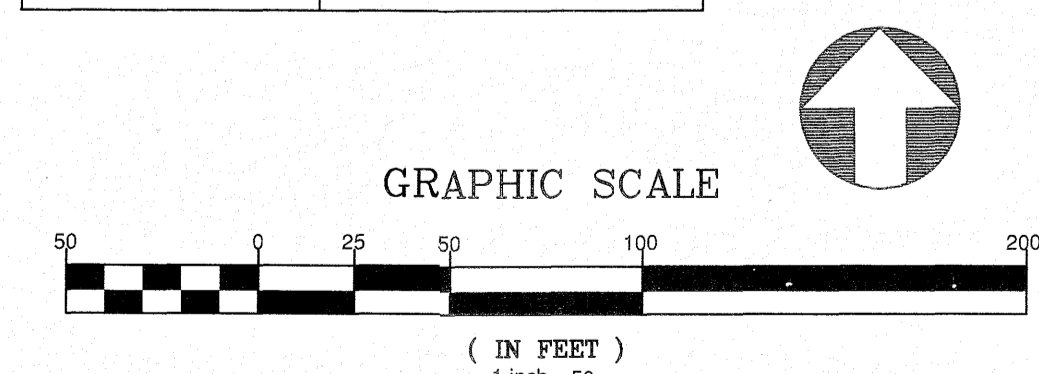
\* AGGREGATE 12', MIN. 5'  
\*\* MIN. 3' AGGREGATE 10'

**GENERAL NOTE:**

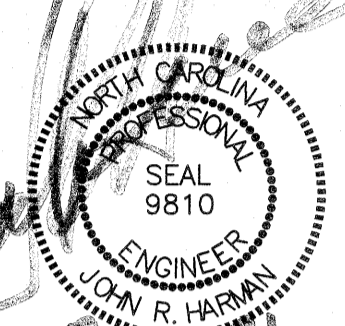
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- BACK OF CURB RADIUS AT INTERSECTIONS-  
RESIDENTIAL-RESIDENTIAL- 28'  
RESIDENTIAL-COLLECTOR- 30'  
COLLECTOR-COLLECTOR- 30'  
ENTRANCE AT CUL-DE-SAC- 32.5'  
ENTRY ROADS-ROLESVILLE RD.- 35'

**SITE LEGEND**

	PROPOSED LOT LINE
	100 YEAR FLOOD EASEMENT
	BUILDING RESTRICTION LINE
	PROPOSED LOT SETBACK
	PROPOSED ROW
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	EXISTING WETLANDS
	PROPOSED SWALE (AT TIME OF LOT GRADING)
	PROPOSED PHASELINE



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



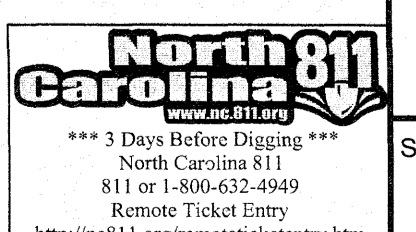
NO.	DATE	REVISION:
1	7/21/2021	1ST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH

**STIPULATION FOR REUSE**

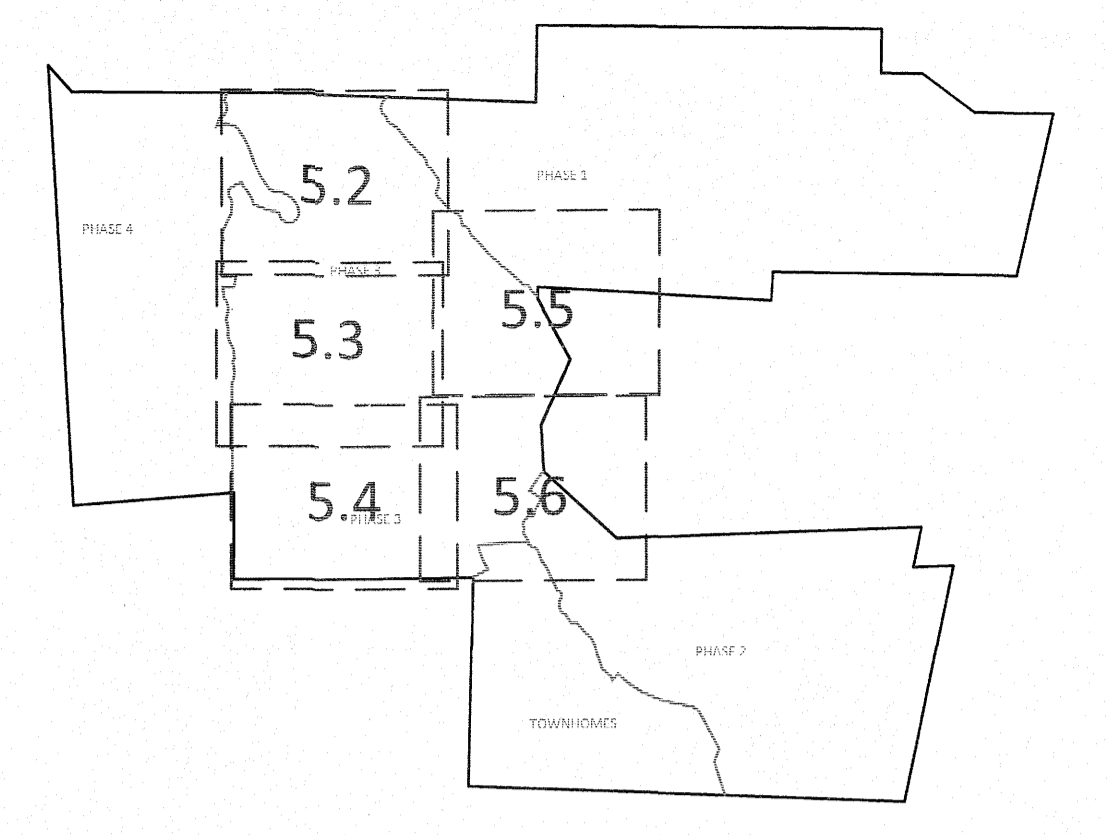
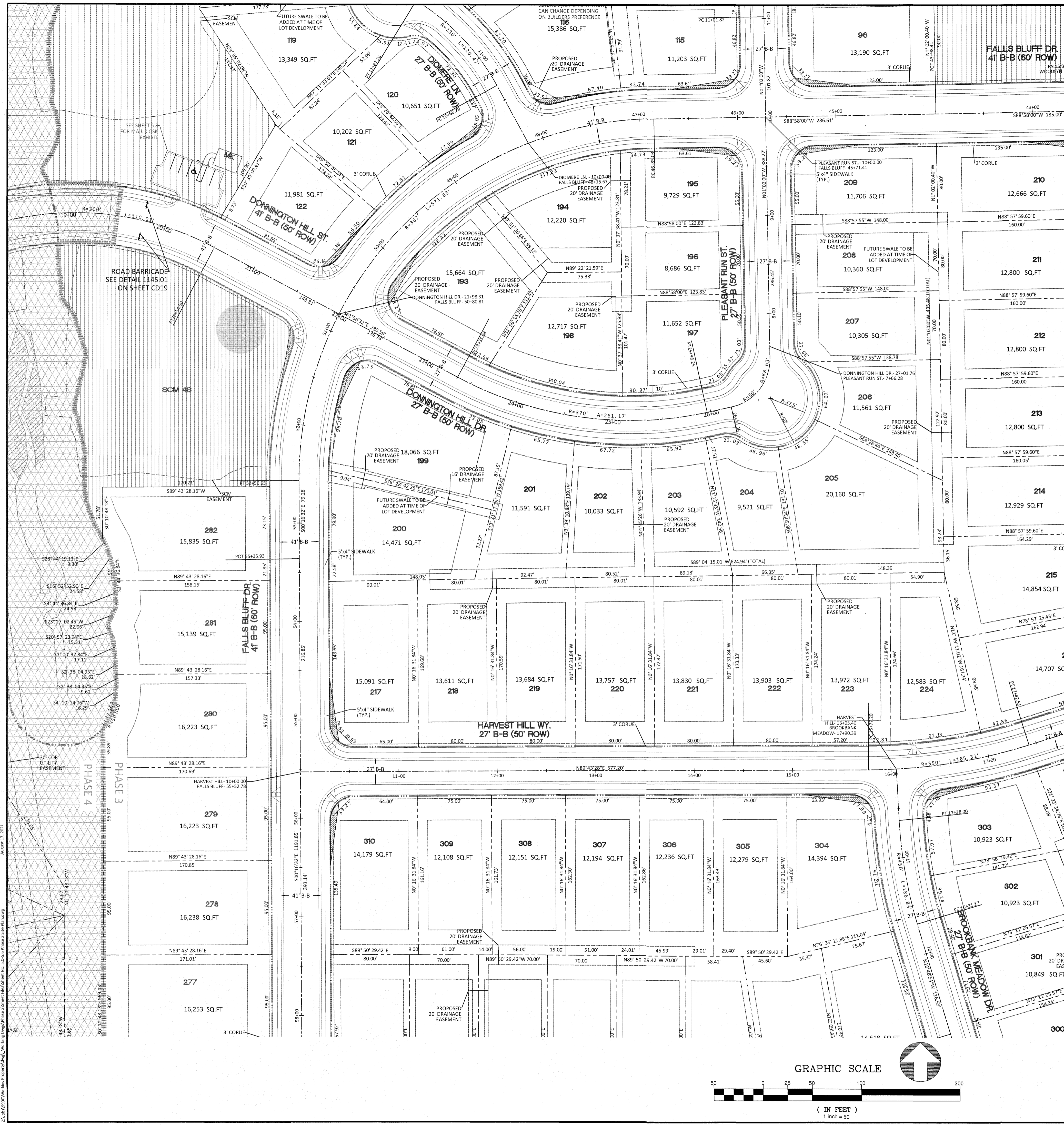
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**KALAS FALLS PHASE 3**  
1832 ROLESVILLE ROAD  
WAKE COUNTY, NC

JOB NUMBER: 9900  
CHECKED BY:  
DRAWN BY:  
DATE: FEB 18, 2021  
SHEET TITLE:  
**PHASE 3 SITE PLAN**  
SHEET NO.: 5.2



August 16, 2021



GRAPHIC SCALE 1"=1000'

SETBACK TABLE SINGLE FAMILY

	50'	50'	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

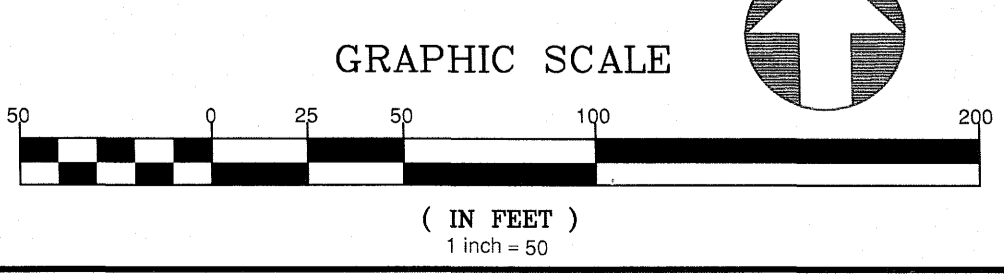
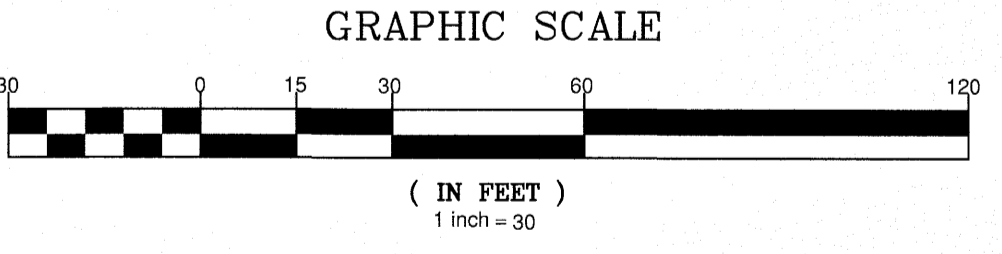
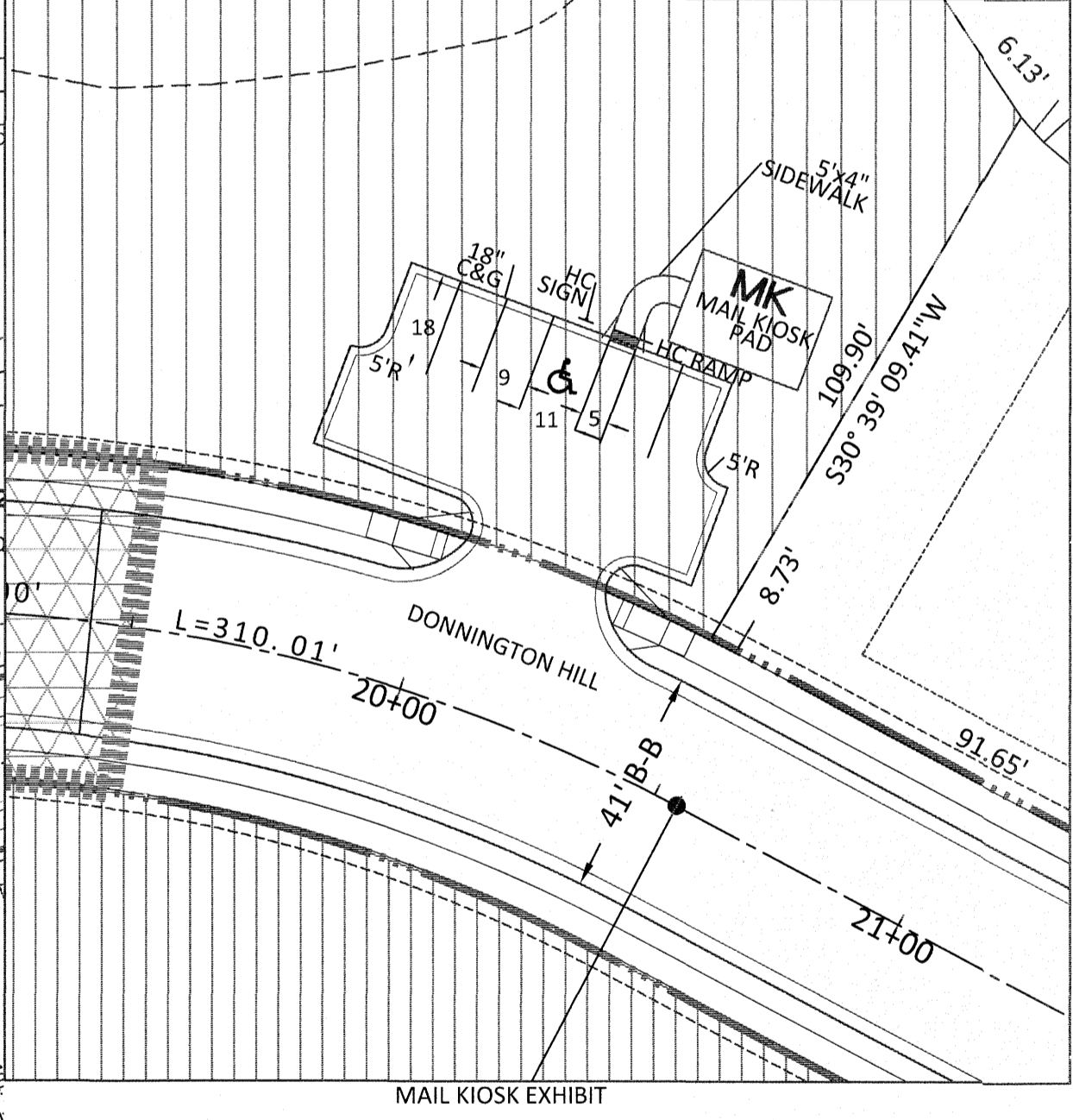
MIN. 3' AGGREGATE 12', MIN. 5'  
 \*\* MIN. 3' AGGREGATE 10'

GENERAL NOTE:

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

SITE LEGEND

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	100 YEAR FLOOD EASEMENT
	BUILDING RESTRICTION LINE
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	PROPOSED SWALE (AT TIME OF LOT GRADING)
	PROPOSED PHASELINE



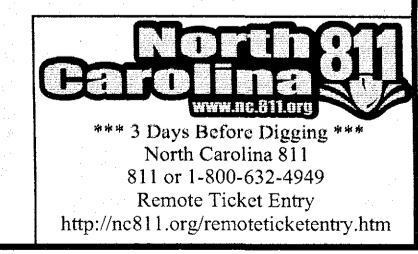
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 DATE: 7/21/2021  
 FROM: TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH

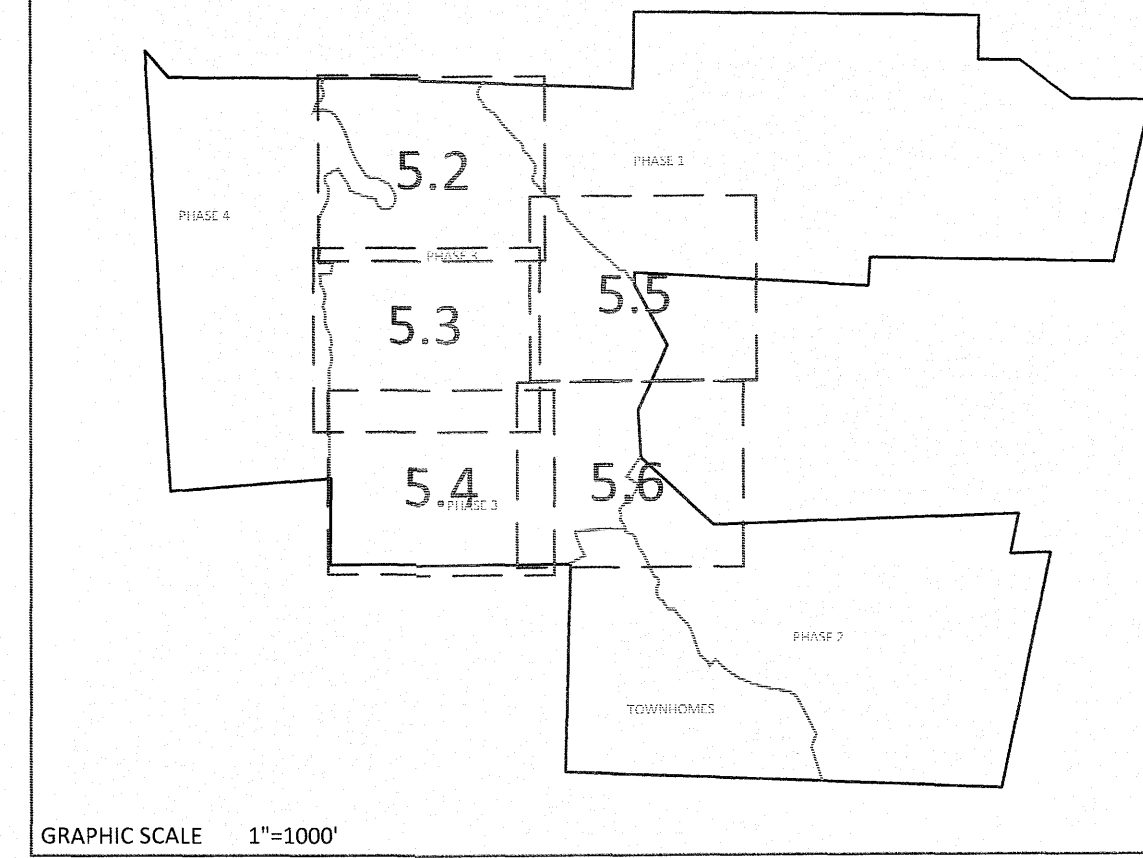
STIPULATION FOR REUSE

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

JOB NUMBER: 9900  
 CHECKED BY:  
 DRAWN BY:  
 DATE: FEB 18, 2021  
 SHEET TITLE: **PHASE 3 SITE PLAN**  
 SHEET NO.: 5.3





SETBACK TABLE SINGLE FAMILY

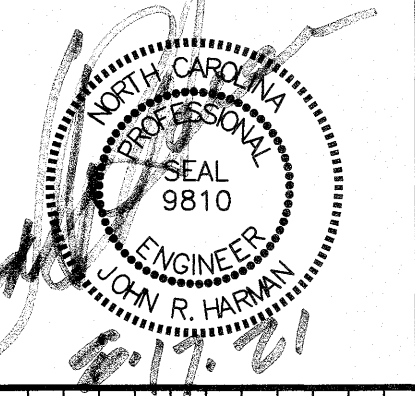
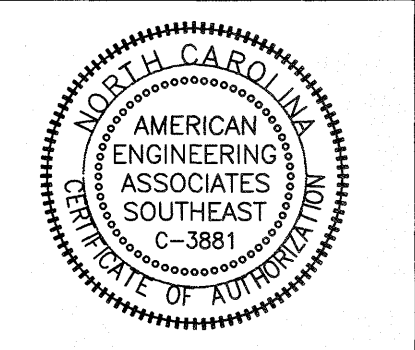
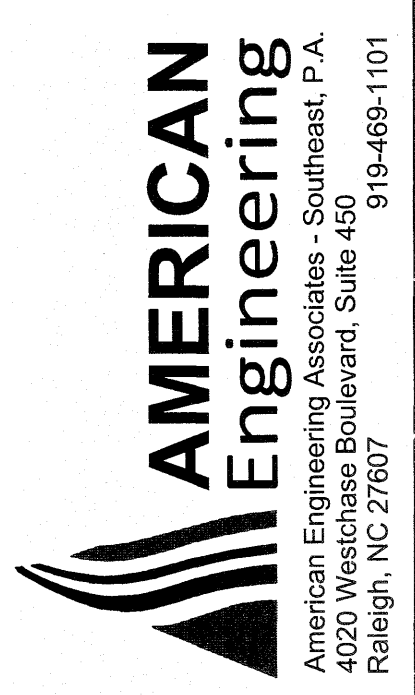
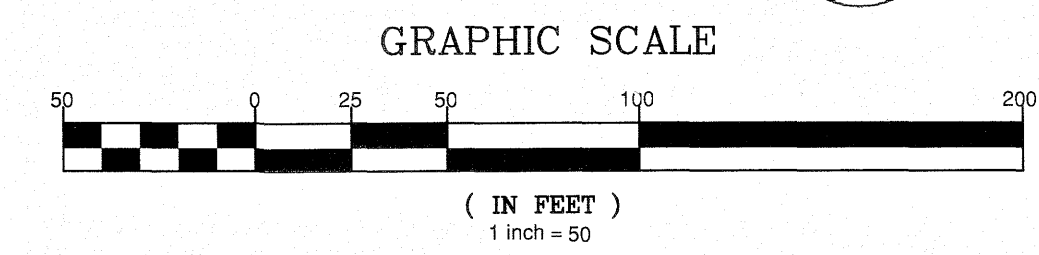
	50'	50' W ALLEY	50'-59'	60'-69'	70'-79'	80'-100'	101'+
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\* AGGREGATE 12', MIN. 5'  
\*\* MIN. 3' AGGREGATE 10'

GENERAL NOTE:  
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SITE LEGEND

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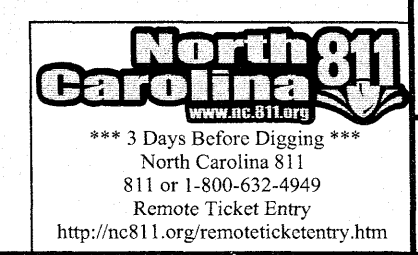
NO.	DATE	REVISION
1	7/27/2021	LISTED FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH

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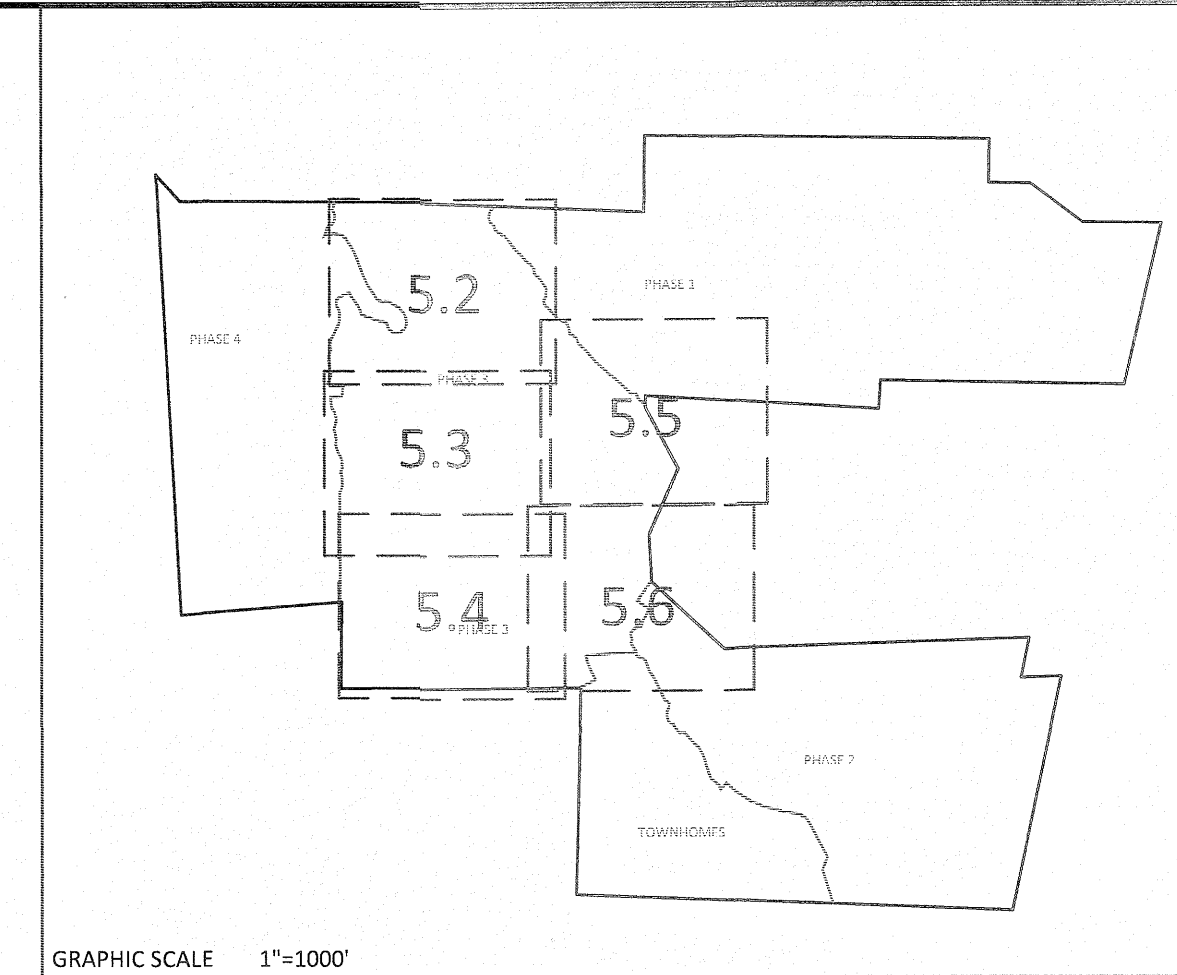
**KALAS FALLS**  
**PHASE 3**  
 1832 ROLESVILLE ROAD  
 WAKE COUNTY, NC

JOB NUMBER: 9900  
 CHECKED BY:  
 DRAWN BY:  
 DATE: FEB 18, 2021  
 SHEET TITLE:

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



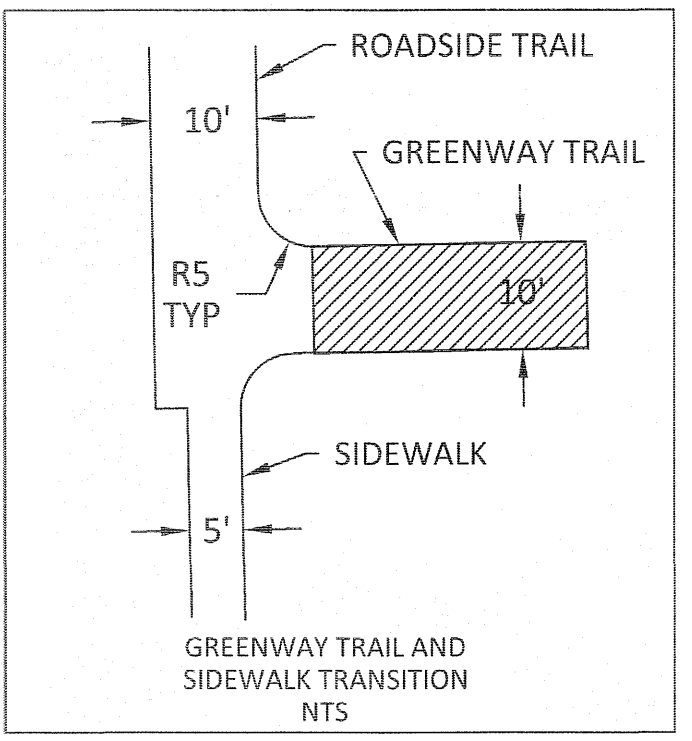
August 12, 2021  
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SETBACK TABLE SINGLE FAMILY

	50'	50' W ALLEY	50'-59'	60'-69'	70'-79'	80'-100'	101' +
FRONT	20'	15'	20'	25'	25'	25'	25'
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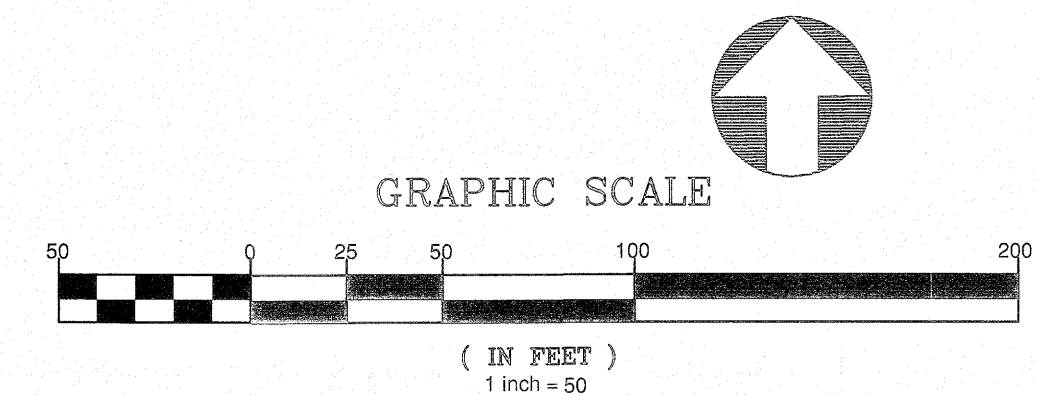
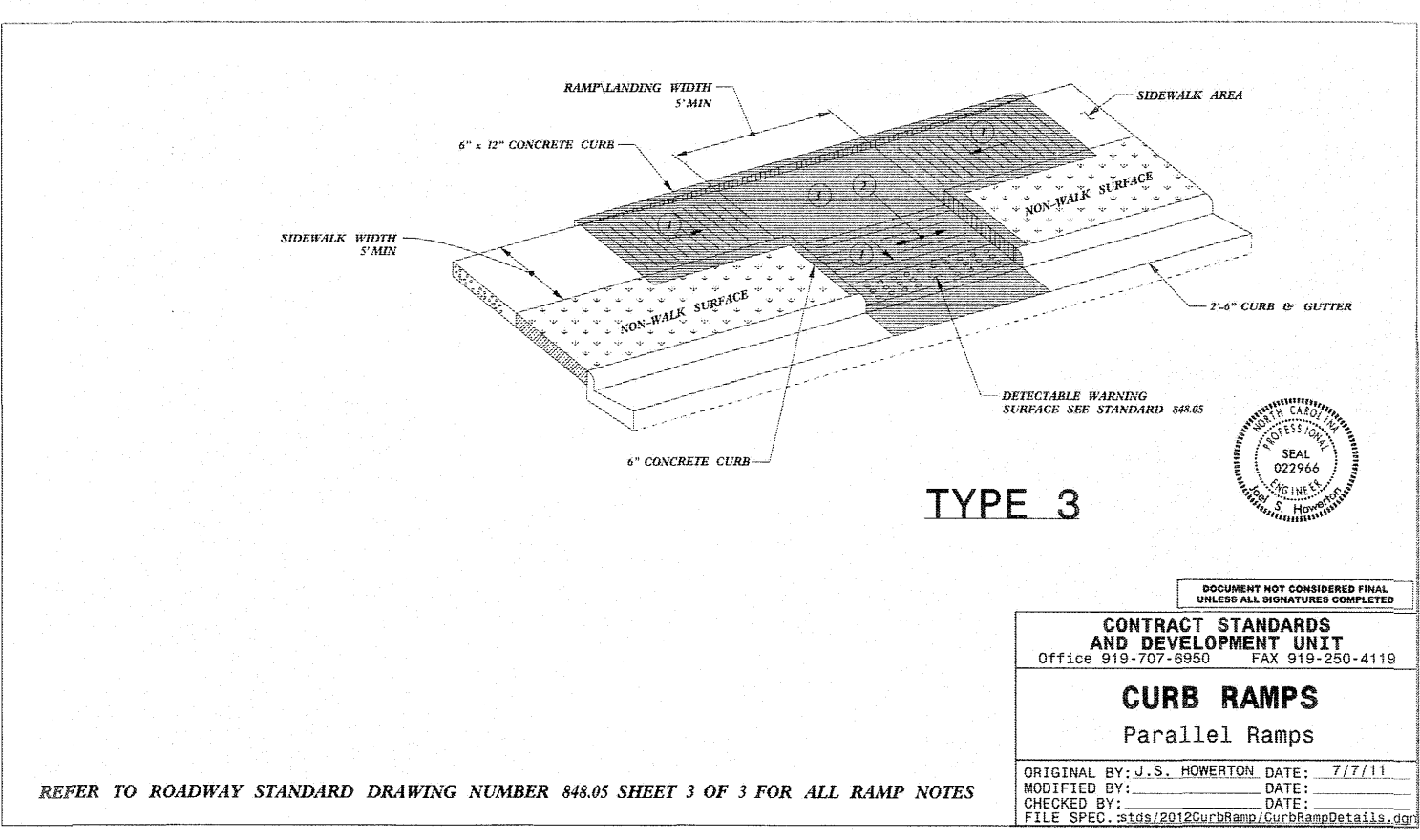


**GENERAL NOTE:**

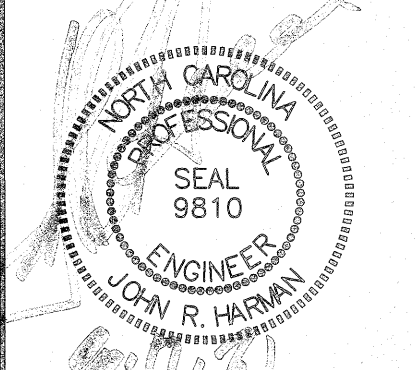
- SIGHT DISTANCE TRIANGLES ARE 10'x70'. WHERE SIGHT LINES ENCRUSH ONTO A PRIVATE LOT A SIGHT EASEMENT IS REQUIRED.
- BACK OF CURB RADIUS AT INTERSECTIONS:  
RESIDENTIAL-RESIDENTIAL- 28'  
RESIDENTIAL-COLLECTOR- 30'  
COLLECTOR-COLLECTOR- 30'  
ENTRANCE AT CUL-DE-SAC- 32.5'  
ENTRY ROADS-ROLESVILLE RD.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



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



REVISION: 1ST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH

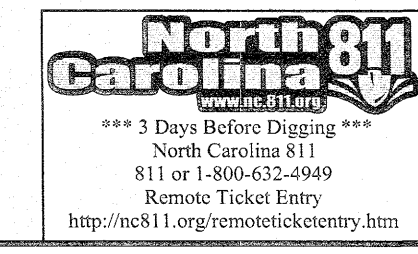
NO.	DATE	DESCRIPTION
1	7/27/2021	1ST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH

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

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

JOB NUMBER: 9900  
CHECKED BY:  
DRAWN BY:  
DATE: FEB 18, 2021  
SHEET TITLE:

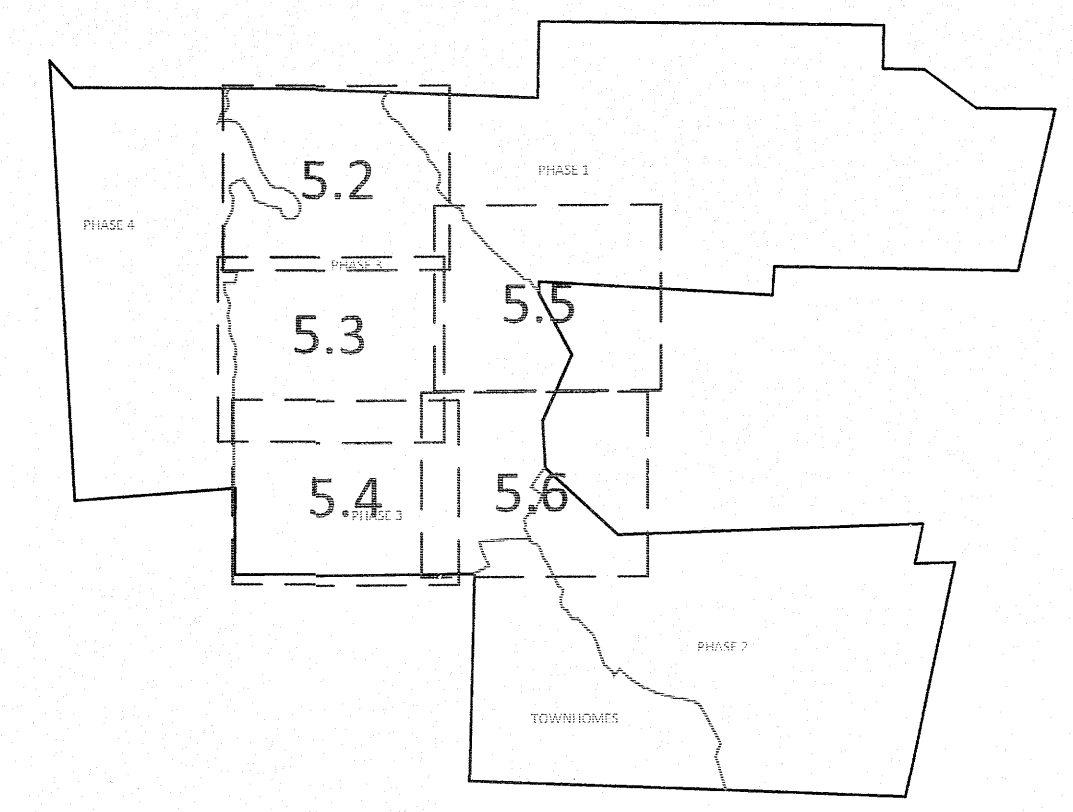
**PHASE 3 SITE PLAN**  
SHEET NO.: 5.5







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. 1767.03-28-4304  
 REAL ESTATE ID: 0048422



GRAPHIC SCALE 1"=100'

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

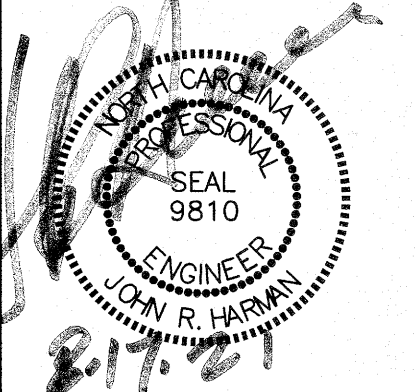
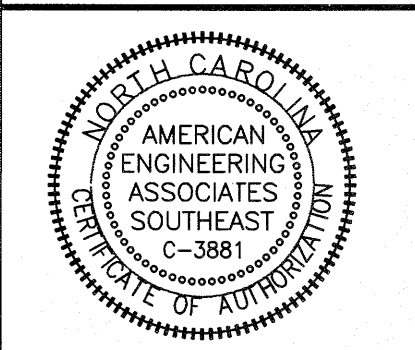
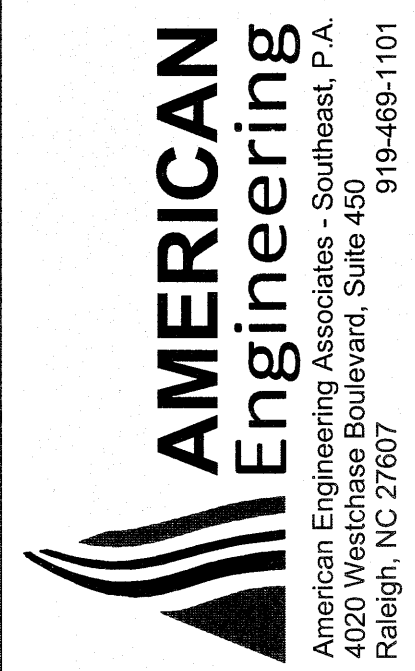
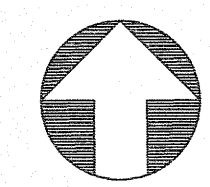
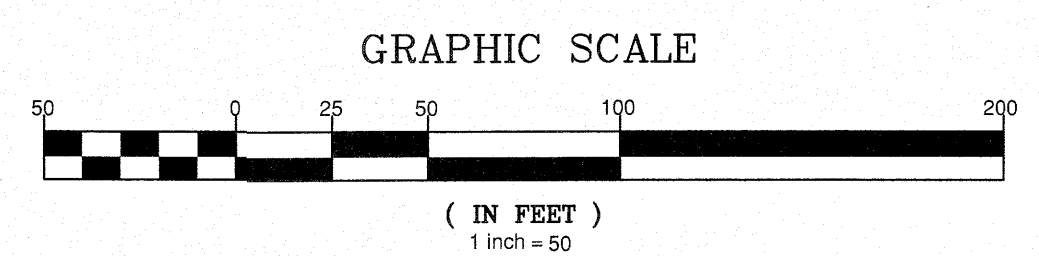
\* AGGREGATE 12', MIN. 5'  
 \*\* MIN. 3' AGGREGATE 10'

GENERAL NOTE:

1. SIGHT DISTANCE TRIANGLES ARE 10'x70'. WHERE SIGHT LINES ENCROACH ONTO A PRIVATE LOT A SIGHT EASEMENT IS REQUIRED.
2. 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 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

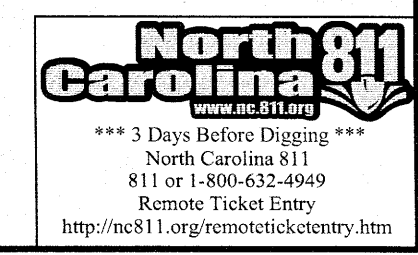


NO.	DATE	REVISION:
1	7/21/2021	1ST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF WAREHOIR

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

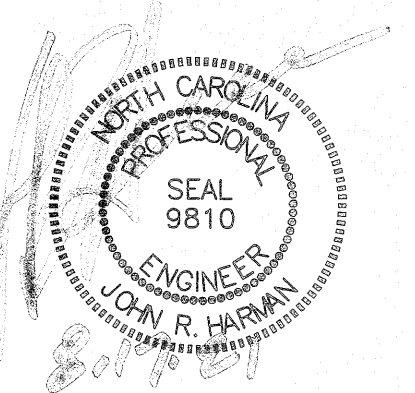
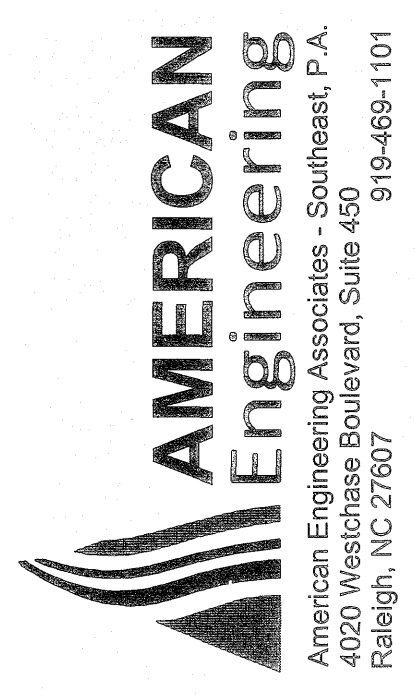
JOB NUMBER:	9900
CHECKED BY:	
DRAWN BY:	
DATE:	FEB 18, 2021
SHEET TITLE:	PHASE 3 SITE PLAN
SHEET NO.:	5.6



August 17, 2021  
 2:\data\092020\Wakelands\_Plan\Phase 3\Sheet 5.6 Phase 3 Site Plan.dwg



UTILITIES LEGEND	
	EXISTING BOUNDARY
	EXISTING 50' RIPEUSE
	RIPEUSE 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
	EXISTING WETLANDS AREA
	OPEN SPACE
	FUTURE PHASING
	EXISTING PHASING
	100 YEAR FLOOD EASEMENT



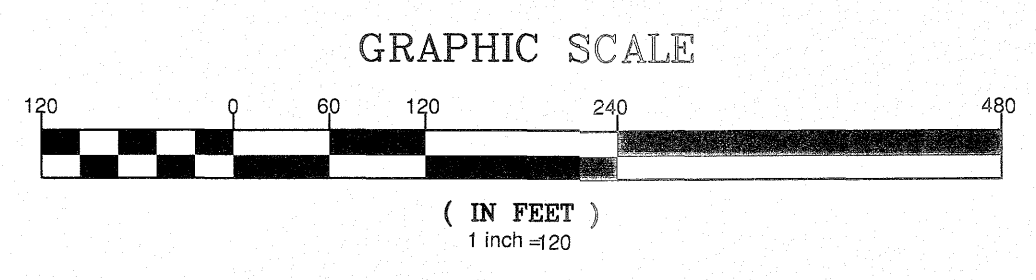
NO.	DATE	REVISION
1	7/27/2021	ISSUE FOR TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH

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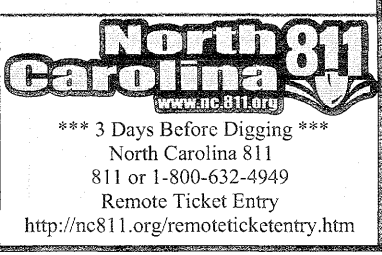
**KALAS FALLS PHASE 3**  
 1832 ROLESVILLE ROAD  
 WAKE COUNTY, NC

JOB NUMBER:	9900
CHECKED BY:	
DRAWN BY:	
DATE:	FEB 18, 2021
SHEET TITLE:	<b>PHASE 3 OVERALL UTILITY PLAN</b>
SHEET NO.:	6.0

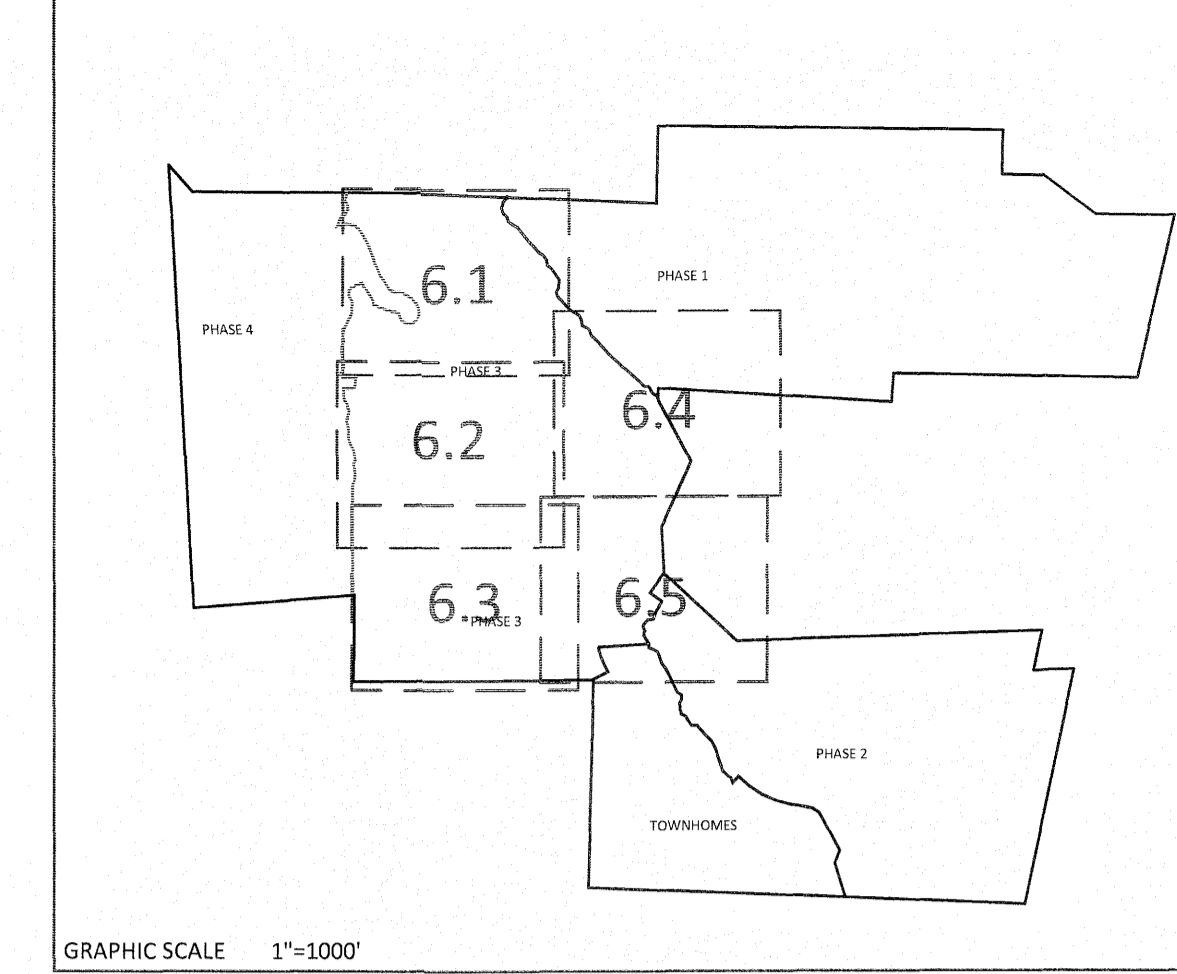
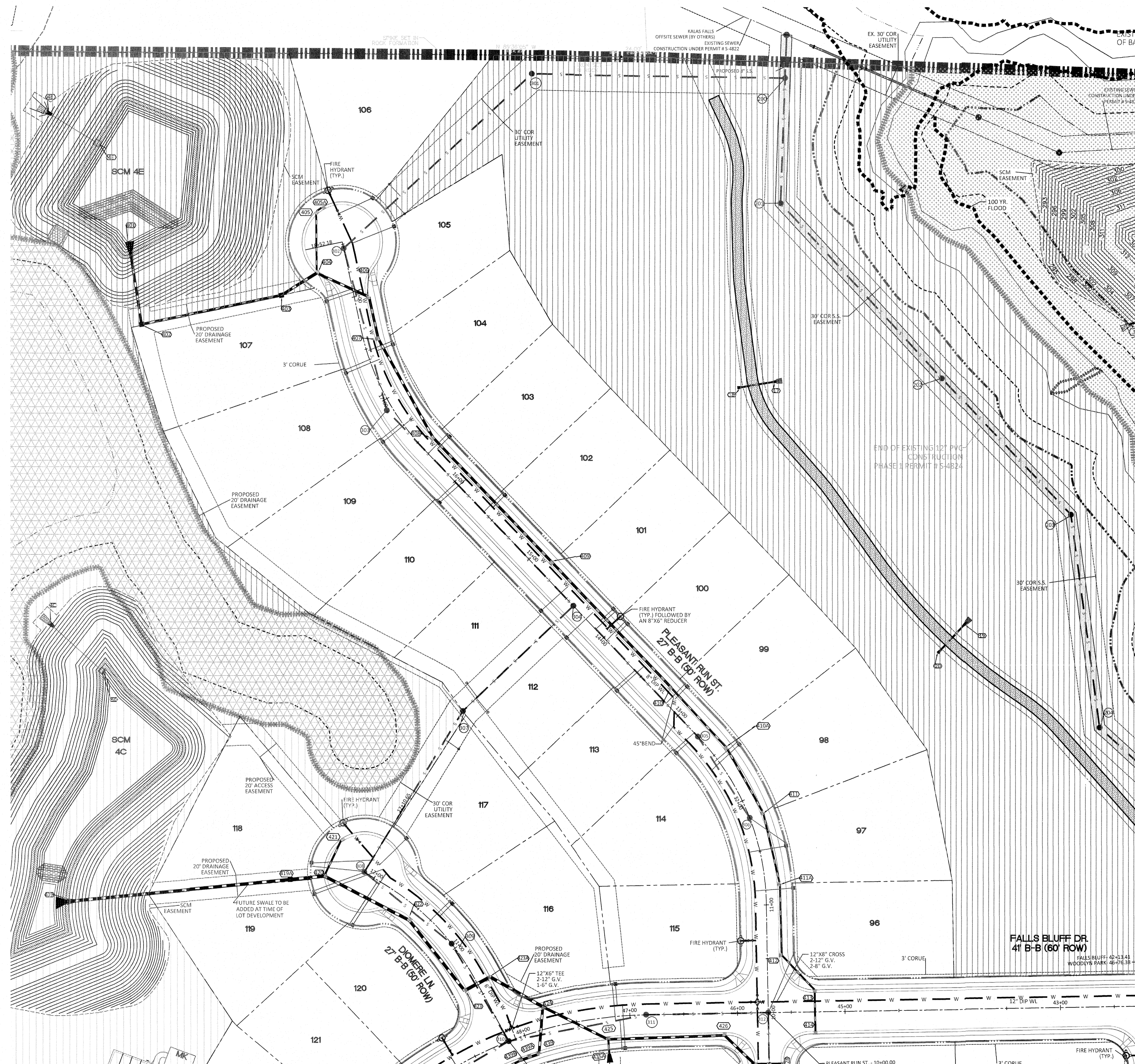
**SITE PERMITTING APPROVAL**  
 Water and Sewer Permits (if applicable)  
 The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook, City of Raleigh Public Utilities Department Permit # \_\_\_\_\_  
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 City of Raleigh Public Utilities Department Permit # \_\_\_\_\_



**CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION**  
 Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.  
 City of Raleigh Development Approval \_\_\_\_\_  
 Raleigh Water Review Officer \_\_\_\_\_



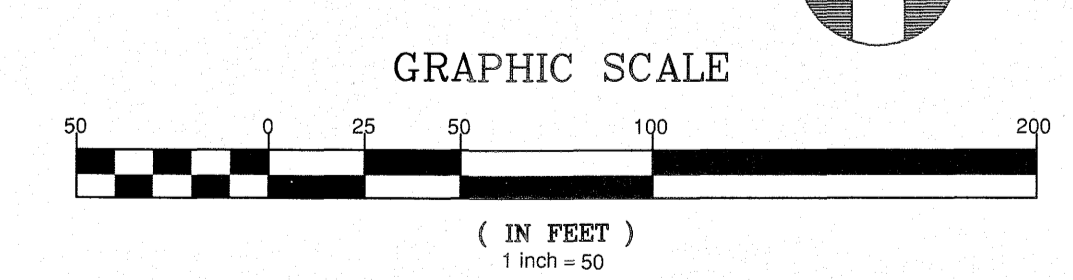
August 17, 2021  
 PHASE 3 UTILITY PLAN  
 1832 ROLESVILLE ROAD  
 KALAS FALLS  
 WAKE COUNTY, NC  
 27607  
 919-497-4973  
 PHASE 3 UTILITY PLAN  
 1832 ROLESVILLE ROAD  
 KALAS FALLS  
 WAKE COUNTY, NC  
 27607  
 919-497-4973



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.

UTILITIES LEGEND	
	EXISTING BOUNDARY
	EXISTING 50' RIPIERIAN 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
	EXISTING WETLANDS AREA
	OPEN SPACE
	FUTURE PHASING
	EXISTING PHASING
	100 YEAR FLOOD EASEMENT



**Water and Sewer Permits (if applicable)**

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City of Raleigh Public Utilities Department Permit # \_\_\_\_\_

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

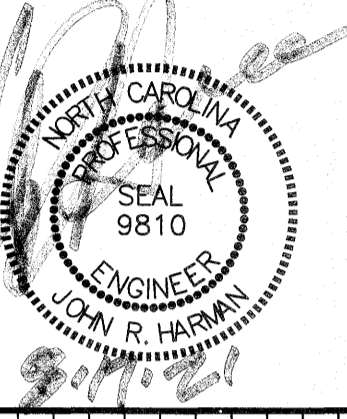
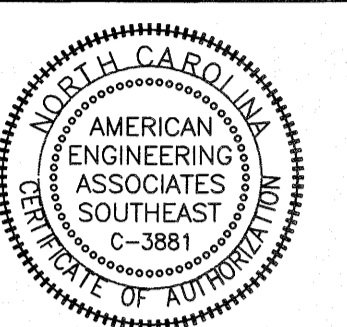
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City of Raleigh Development Approval \_\_\_\_\_

Raleigh Water Review Officer \_\_\_\_\_



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



NO.	DATE	REVISION
1	7/21/2021	LIST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH

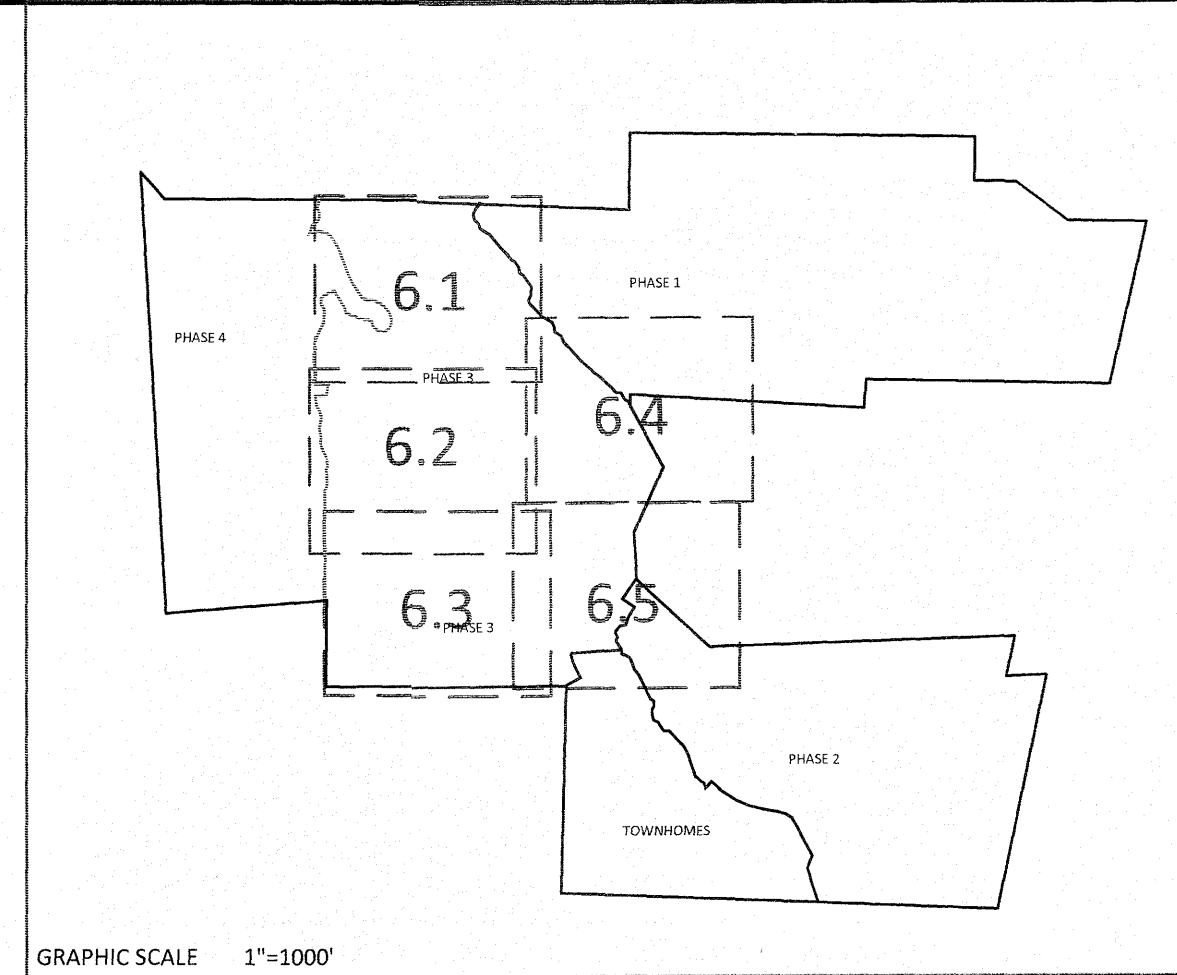
**STIPULATION FOR REUSE**

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

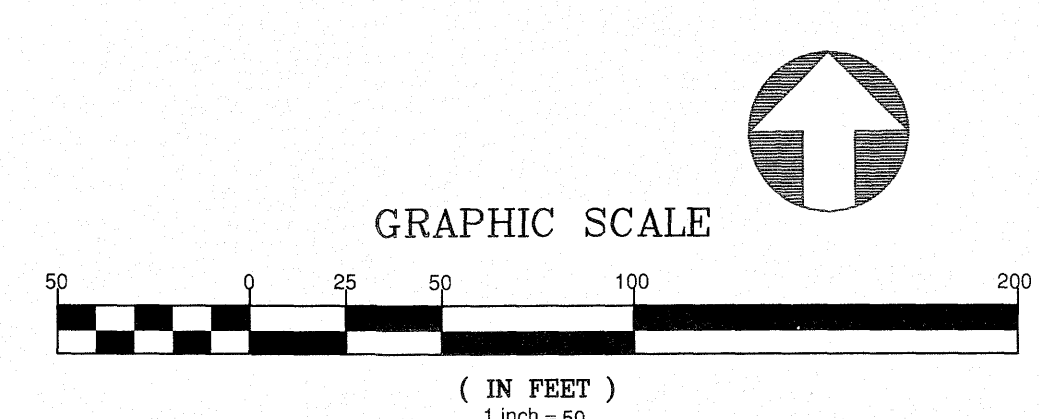
JOB NUMBER: 9900  
 CHECKED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 DATE: FEB 18, 2021  
 SHEET TITLE: PHASE 3 UTILITY PLAN (50 SCALE)  
 SHEET NO.: 6.1

August 17, 2021  
 C:\Users\jwheeler\OneDrive\Work\Drawings\Phase 3\Drawings\Phase 3\Phase 3 Utility Plans.dwg



GRAPHIC SCALE 1"=1000'

UTILITIES LEGEND	
	EXISTING BOUNDARY
	EXISTING 50' NEUSE
	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
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	PROPOSED WATER VALVE
	PROPOSED WATER REDUCER
	PROPOSED SEWER LINE
	PROPOSED WATER LINE
	PROPOSED STORM WATER
	EXISTING WETLANDS AREA
	OPEN SPACE
	FUTURE PHASING
	EXISTING PHASING
	100 YEAR FLOOD EASEMENT



**SITE PERMITTING APPROVAL**

**Water and Sewer Permits (if applicable)**

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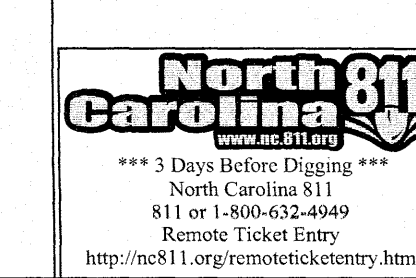
City of Raleigh Public Utilities Department Permit # \_\_\_\_\_

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

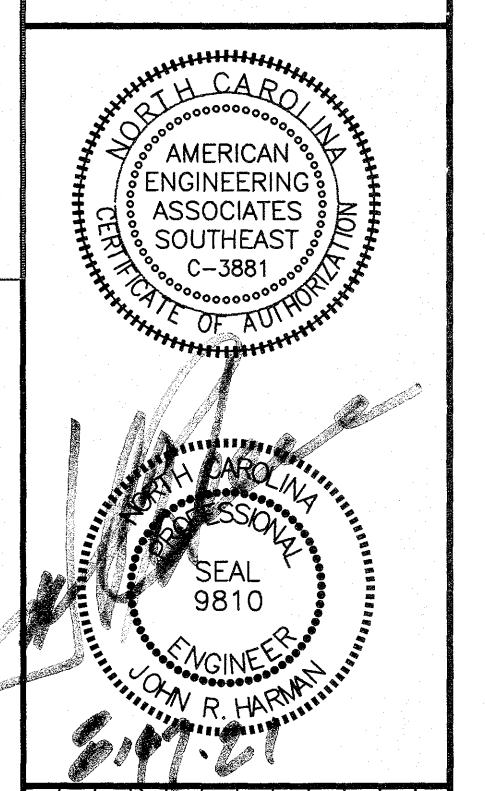
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City of Raleigh Development Approval \_\_\_\_\_

Raleigh Water Review Officer \_\_\_\_\_



**AMERICAN Engineering**  
 American Engineering Associates - Southeast, P.A.  
 4020 Westchase Boulevard, Suite 400  
 Raleigh, NC 27607  
 919-469-1101



NO.	DATE	REVISION
1	7/21/2021	1ST REVIEW FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH

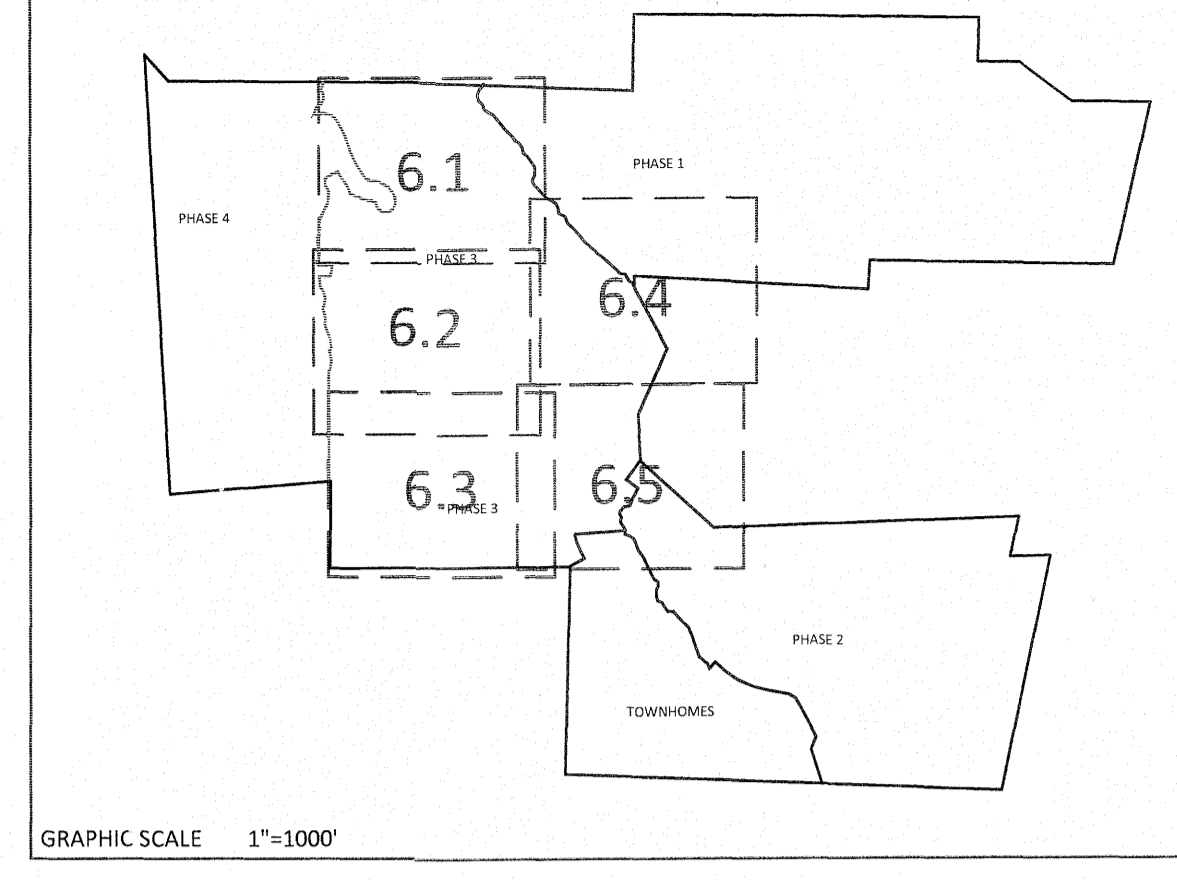
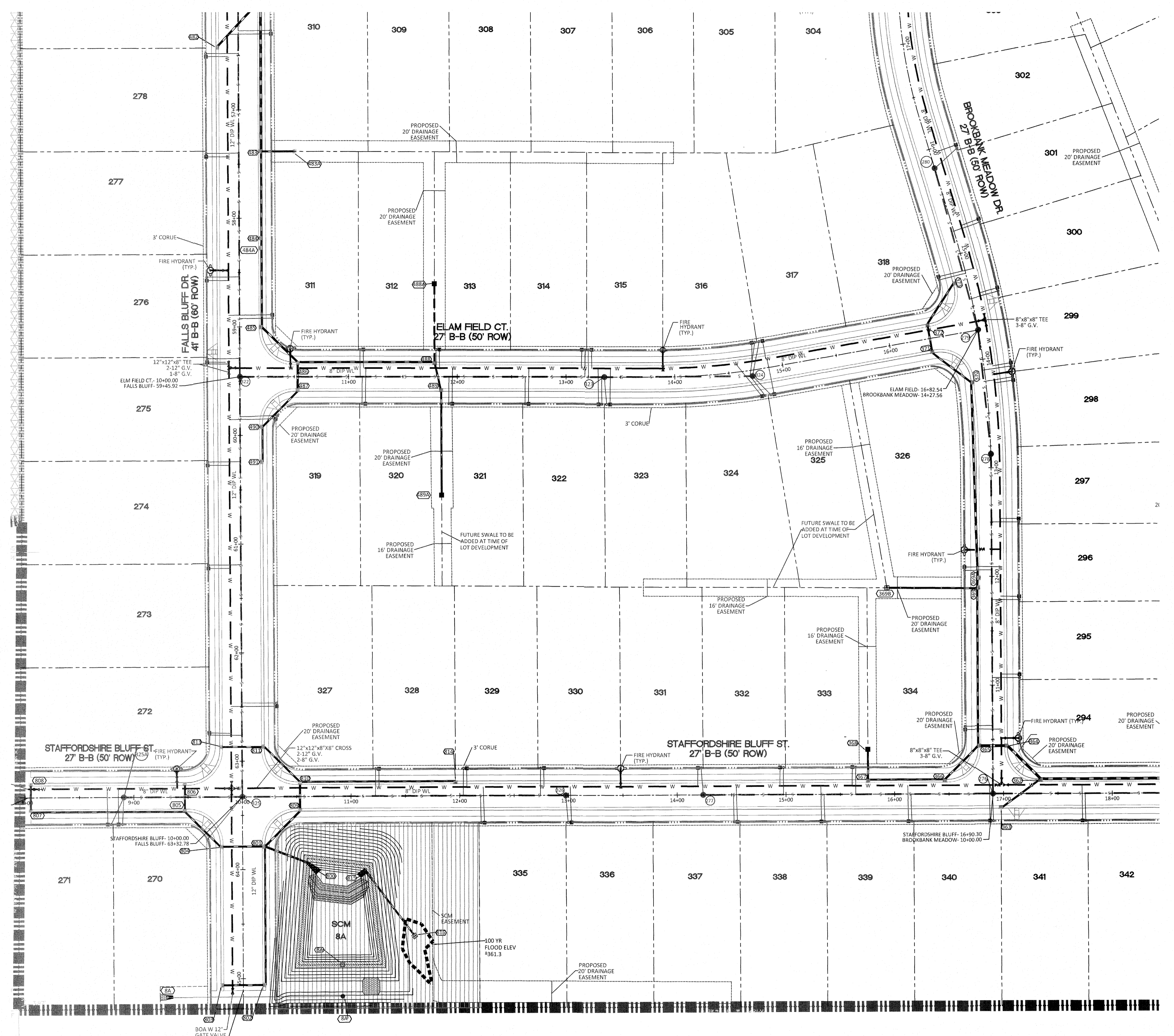
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**KALAS FALLS  
 PHASE 3  
 1832 ROLESVILLE ROAD  
 WAKE COUNTY, NC**

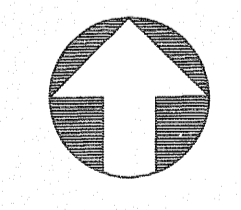
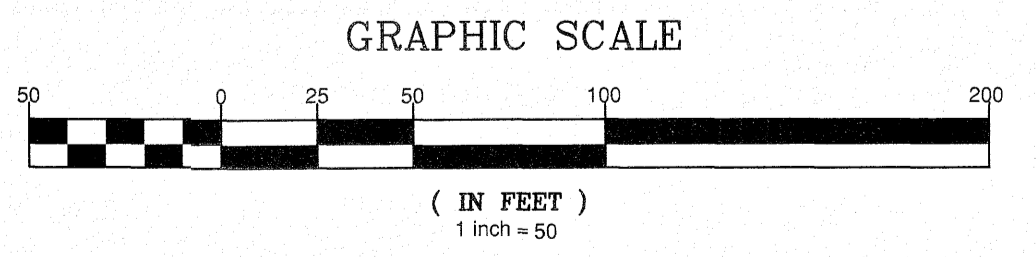
JOB NUMBER: 9900  
 CHECKED BY:  
 DRAWN BY:  
 DATE: FEB 18, 2021  
 SHEET TITLE:  
**PHASE 3  
 UTILITY  
 PLAN  
 (50 SCALE)**  
 SHEET NO.:  
**6.2**

August 17, 2021  
 Z:\John\9900\Wetlands\Project\Plan\Working\Drawings\Phase 3\Sheet 605\Sheet No. 6.2-6 Phase 3 Utility Plan.dwg



GRAPHIC SCALE 1"=1000'

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
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	PROPOSED MANHOLE
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	PROPOSED WATER REDUCER
	PROPOSED SEWER LINE
	PROPOSED WATER LINE
	PROPOSED STORM WATER
	EXISTING WETLANDS AREA
	OPEN SPACE
	FUTURE PHASING
	EXISTING PHASING
	100 YEAR FLOOD EASEMENT



**SITE PERMITTING APPROVAL**

**Water and Sewer Permits (if applicable)**

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City of Raleigh Public Utilities Department Permit # \_\_\_\_\_

**CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION**

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval \_\_\_\_\_

Raleigh Water Review Officer \_\_\_\_\_

**North 811**  
Carolina 811  
www.nc811.org

\*\*\* 3 Days Before Digging \*\*\*  
North Carolina 811  
811 or 1-800-632-6969  
Remote Ticket Entry  
http://nc811.org/remoteticketentry.htm

**AMERICAN Engineering**  
American Engineering Associates - Southeast, P.A.  
4020 Westchase Boulevard, Suite 450  
Raleigh, NC 27607  
919-498-1101

**AMERICAN ENGINEERING ASSOCIATES SOUTHEAST**  
Professional Seal  
No. 0-3881  
State of North Carolina

**AMERICAN ENGINEERING ASSOCIATES SOUTHEAST**  
Professional Seal  
No. 9810  
State of North Carolina  
Engineer  
JOHN R. HARMAN

NO.	DATE	REVISION
1	7/27/2021	LIST FROM TOWN OF ROLESVILLE CONSULTANT, WAKE COUNTY AND CITY OF RALEIGH

**STIPULATION FOR REUSE**

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

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

JOB NUMBER: 9900  
CHECKED BY: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
DATE: FEB 18, 2021  
SHEET TITLE: PHASE 3 UTILITY PLAN (50 SCALE)  
SHEET NO.: 6.3

August 12, 2021  
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