CONSTRUCTION INFRASTRUCTURE DRAWING
FOR
THE PRESERVE AT MOODY FARM

1ST CID SUBMITTAL: 12-02-2024 (1)
2ND CID SUBMITTAL: 02-03-2025 (2)
3RD CID SUBMITTAL: 04-01-2025 (3)
4TH CID SUBMITTAL: 06-02-2025 (4)
5TH CID SUBMITTAL: 07-16-2025

SITUATED AT
0 ROLESVILLE ROAD AND 0
AMAZON TRAIL

WAKE COUNTY, NORTH CAROLINA

SITE INFORMATION	
OWNER	HOLLINGSWORTH, W.C., JR. AND HOLLINGSWORTH, LAURA W. P.O.BOX 61 LOUISBURG NC 27549-0061 AND MOODY, BENNY LAWRENCE AND MOODY, JEFFREY LYNN 1716 ROLESVILLE RD, WAKE FOREST NC 27587-9677
REAL ESTATE ID	0048383 AND 0048422
PIN NUMBERS	1767284925 AND 1767284304
DEED BOOK	DB:017552 PG:02100 AND DB:014297 PG:01583
DEEDED ACREAGE	51.78 AC
EXISTING ZONING	R-3 CZ
TOTAL PROJECT ACREAGE	48.28 AC
GOVERNMENTAL USE	0.48 AC
AREA IN LOTS	24.69 AC
AREA IN ROW	6.54 AC
EXISTING ROW	0.27 AC
DEDICATED ROW	0.14 AC
TOTAL LOTS	82
MIN LOT SIZE	10,000 SF
MIN LOT WIDTH	65'
FRONT SETBACK	25'
REAR SETBACK	25'
SIDE SETBACK	10'
CORNER SETBACK	25'
DENSITY	1.6 UNIT/AC.
OPEN SPACE REQ.	10% / 5 AC.
OPEN SPACE PROVIDED	37% / 18.81 AC
ACTIVE REQUIRED	2.5 AC (50% OF 5 AC)
ACTIVE SHOWN	2.7 AC
LF OF PUBLIC STREETS	5,531 LF
LIMITS OF DISTURBANCE	39.27
EXISTING IMPERVIOUS	0.67 AC
PROPOSED IMPERVIOUS	15.13 AC
RECEIVING WATER	HARRIS CREEK (1)(2)(3)
STREAM INDEX	27-26

GENERAL NOTES:
1. CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL (1-800-632-4949) TO LOCATE ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
2. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE EXISTING UTILITIES AND NOTIFY THE PROJECT ENGINEER (919-469-1101) OF ANY CONFLICTS.
3. ALL BOUNDARY AND FIELD TOPOGRAPHY PROVIDED BY WITHERS & RAVENEL.
4. THE ZONING ENTITLEMENTS ACHIEVED/FACILITATING THIS PRELIM PLAT IS MA 21-05, APPROVED 12-7-2021 AS TOWN BOARD AGENDA ITEM B.2 ON THE CONSENT AGENDA; IT INCLUDES 5 CONDITIONS AND A CONCEPT PLAN DRAWING.
5. PLEASE SEE APPROVED WITH MA 21-05 BY TOWN BOARD OF COMMISSIONERS - SHEET NUMBER MA.
6. OPEN SPACE LOTS AND SCM'S WILL BE OWNED AND MAINTAINED BY HOA.
7. ALL PROPOSED STREETS WILL BE DEDICATED TO TOWN AND THUS OWNED AND MAINTAINED BY TOWN.

ZONING CONDITIONS (CASE # MA-21-05)

1. PERMITTED USE LIMITED TO "DWELLING - SINGLE FAMILY."
2. ALL DWELLINGS TO BE CONSTRUCTED ON RAISED FOUNDATIONS WITH CRAWLSPACES. NO ON-SLAB CONSTRUCTION.
3.DEVELOPMENT TO INCORPORATE A PUBLIC GREENWAY AS SHOWN ON THE SKETCH PLAN INCORPORATING OPTION 2 TOGETHER WITH WAYFINDING SIGNAGE AND CONSTRUCTION OF A 10' OFF-SITE MULTI-USE PATH ALONG WOODLYN PARK DRIVE, CONNECTING THIS GREENWAY TO THE PROPOSED KALAS FALLS GREENWAY.
4. PRIOR TO COMPLETION OF THE ON-SITE GREENWAY, A 6' SOLID BOARD FENCE SHALL BE ERECTED ALONG THE PROPERTY BOUNDARY LINE FRONTING THE EASTERN TERMINUS OF THE GREENWAY AND BORDERING THE SHORE PROPERTY (PIN . 1767-38-1953) .
5. ON-SITE CONSTRUCTION SHALL NOT COMMENCE UNTIL THE KALAS FALLS ROLESVILLE ROAD WIDENING PROJECT IS COMPLETE.

RALEIGH WATER INSPECTIONS QUANTITIES (SUBDIVISIONS AND SITE PLANS)	
PHASE NUMBER	PHASE 1
NUMBER OF LOTS	82
NUMBER OF UNITS	82
PUBLIC WATER (LF)	5,517
PUBLIC SEWER (LF)	6,985
PRIVATE SEWER* (LF)	N/A
WATER SERVICE STUBS (QUANTITY)	87
SEWER SERVICE STUBS (QUANTITY)	87
AVERAGE DAILY FLOW PER PHASE**	26,100 GPD

*SEWER MAINS AND MANHOLES AS PART OF A COLLECTION SYSTEM
**ENTIRE PROJECT FLOW. BASED ON 75 GPD PER BEDROOM FOR RESIDENTIAL (APARTMENTS, SINGLE FAMILY DWELLING, TOWNHOUSE, CONDOS), OR BASED ON 15A NCAC 0.2T.0114 WASTEWATER DESIGN FLOW RATES FOR COMMERCIAL AND INDUSTRIAL. THE METER SIZE MUST MACH DOMESTIC SERVICE SIZE (EXEMPTION - 3/4" SERVICE TAP WITH 5/8" METER)

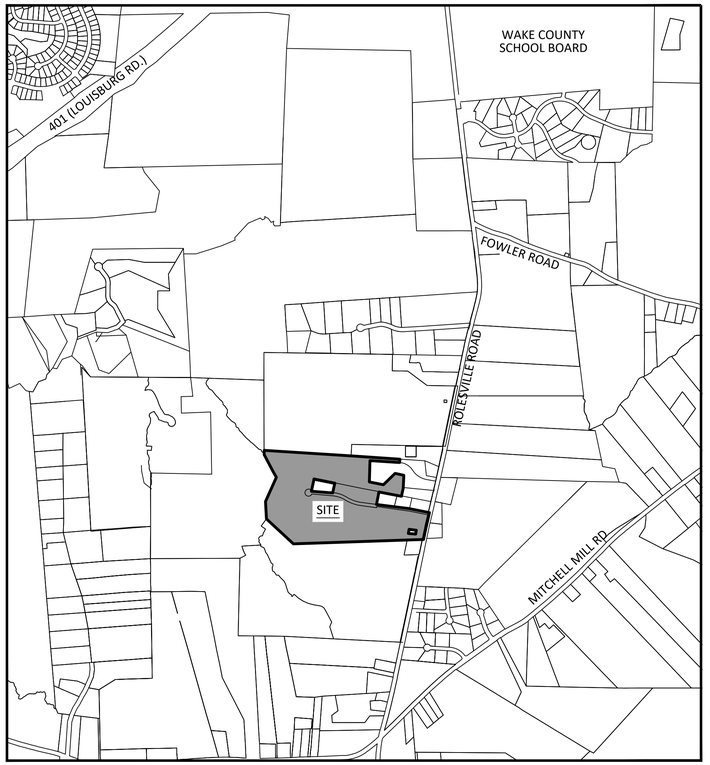
(1)

ATTENTION CONTRACTORS

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

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

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



VICINITY MAP
SCALE: 1"=1000'

(1)

PROPOSED IMPERVIOUS TABULATION	
LAND COVER	AREA (AC)
ROADWAYS	3.70
ROOFS	7.89
STORMWATER CONTROL MEASURES	1.17
SIDEWALK/GREENWAY	1.18
PARKING	0.05
DRIVEWAY	1.14
TOTAL:	**15.13**

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

REQUIRED APPROVALS	
PERMIT	PERMIT NUMBER:
POND REMOVAL PERMIT	SEC-063778-2021
TOWN OF ROLESVILLE PSP	PR 22-01 (1)
TOWN OF ROLESVILLE CID	CID 24-09 (2)
WAKE COUNTY EROSION CONTROL	ESC-137379-2024 (3)
WAKE COUNTY STORMWATER	SWF-137381-2024
CITY OF RALEIGH WATER	W-4212
CITY OF RALEIGH SEWER	S-5616
NCDOT 3-PARTY	E051-092-24-01477
NCDOT DRIVEWAY	D051-092-24-00202

PROPRTY OWNER:	HOLLINGSWORTH, W.C., JR. AND HOLLINGSWORTH, LAURA W. P.O.BOX 61 LOUISBURG NC 27549-0061 PIN 1767284925 AND MOODY, BENNY LAWRENCE AND MOODY, JEFFREY LYNN 1716 ROLESVILLE RD, WAKE FOREST NC 27587-9677 PIN: 1767284304
DEVELOPER:	CARUSO HOMES CONTACT: CHISTY BECK 206 HIGH HOUSE RD STE 205 CARY, NC 27513 919-678-5698
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

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT
APPROVED
EROSION CONTROL ☐ S-_____
STORMWATER MGMT. ☐ S-_____
FLOOD STUDY ☐ S-_____
DATE _____
ENVIRONMENTAL CONSULTANT SIGNATURE

NOTE:
TA 20-01 WAS ADAPTED 9-15-20, PERMITTING THE " DWELLING- SINGLE FAMILY DETACHED" USE IN THE R-3 DISTRICT, AND ESTABLISHED: MINIMUM LOT AREA OF 10,000 SF; MINIMUM LOT WIDTH 65'; FRONT YARD SETBACK OF 25'; SIDE YARD SETBACK OF 10'; CORNER YARD SETBACK OF 15'; REAR YARD SETBACK OF 25'

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
CVR	COVER
C1.0	OVERALL EXISTING CONDITIONS AND DEMOLITION PLAN
C2.0	GENERAL NOTES
C2.1	GENERAL NOTES
C3.0	OVERALL ESC STAGE 1
C3.1	ESC STAGE 1 A
C3.2	ESC STAGE 1 B
C3.3	ESC STAGE 1 C
C3.4	ESC STAGE 1 D
C3.5	OVERALL ESC STAGE 2
C3.6	ESC STAGE 2 A
C3.7	ESC STAGE 2 B
C3.8	ESC STAGE 2 C
C3.9	ESC STAGE 2 D
C3.10	OVERALL ESC STAGE 3
C3.11	ESC STAGE 3 A
C3.12	ESC STAGE 3 B
C3.13	ESC STAGE 3 C
C3.14	ESC STAGE 3 D
C3.15	NPDES PLAN (3)
C4.0	OVERALL SITE PLAN
C4.1	SITE PLAN A
C4.2	SITE PLAN B
C4.3	SITE PLAN C
C4.4	SITE PLAN D
C4.5	PHASING PLAN
C4.6	OPEN SPACE AND LAND USE PLAN
C5.0	OVERALL DRAINAGE PLAN
C5.1	DRAINAGE PLAN A
C5.2	DRAINAGE PLAN B
C5.3	DRAINAGE PLAN C
C5.4	DRAINAGE PLAN D
C6.0	OVERALL UTILITIES PLAN
C6.1	UTILITY PLAN A
C6.2	UTILITY PLAN B
C6.3	UTILITY PLAN C
C6.4	UTILITY PLAN D
C7.0	SCHEDULE
C7.1	SCHEDULE
C8.0	SCM 1
C8.1	SCM 2
C8.2	SCM 3
C8.3	SCM 4
C8.4	SCM 5
C8.5	CULVERT CROSSING
C9.0	MULBERRY PLAN AND PROFILE
C9.1	MULBERRY PLAN AND PROFILE
C10.0	TANSLEY CREST LOOP PLAN AND PROFILE
C11.0	VINTAGE VINERY CT PLAN AND PROFILE
C12.0	CUL-DE-SAC AND STUB PLAN AND PROFILES
C13.0	SEWER OUTFALL
C13.1	SEWER OUTFALL
C13.2	SEWER OUTFALL
C13.3	SEWER OUTFALL
C14.0	STORM OUTFALL PLAN AND PROFILES
C15.0	GREENWAY PLAN AND PROFILE (1)
C15.1	GREENWAY PLAN AND PROFILE (1)
CD1	EROSION CONTROL DETAILS
CD2	EROSION CONTROL DETAILS
CD3	EROSION CONTROL DETAILS
CD4	EROSION CONTROL DETAILS
CD5	EROSION CONTROL DETAILS
CD6	UTILITY DETAILS
CD7	UTILITY DETAILS
CD8	UTILITY DETAILS
CD9	UTILITY DETAILS
CD10	UTILITY DETAILS
CD11	DRAINAGE DETAILS
CD12	DRAINAGE DETAILS
CD13	SITE DETAILS
CD14	SITE DETAILS
CD15	SITE DETAILS
CD16	SITE DETAILS
L1	LANDSCAPE PLAN
L2	BUFFER PLAN
L3	PLANTING NOTES AND DETAILS (2)
ES100	OVERALL SITE LIGHTING PLAN - NO GRID
ES101	OVERALL SITE LIGHTING PLAN

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

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

North 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

NORTH CAROLINA ENGINEERING CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036528 JAMES P. KLEIN

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFF LINE)

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.

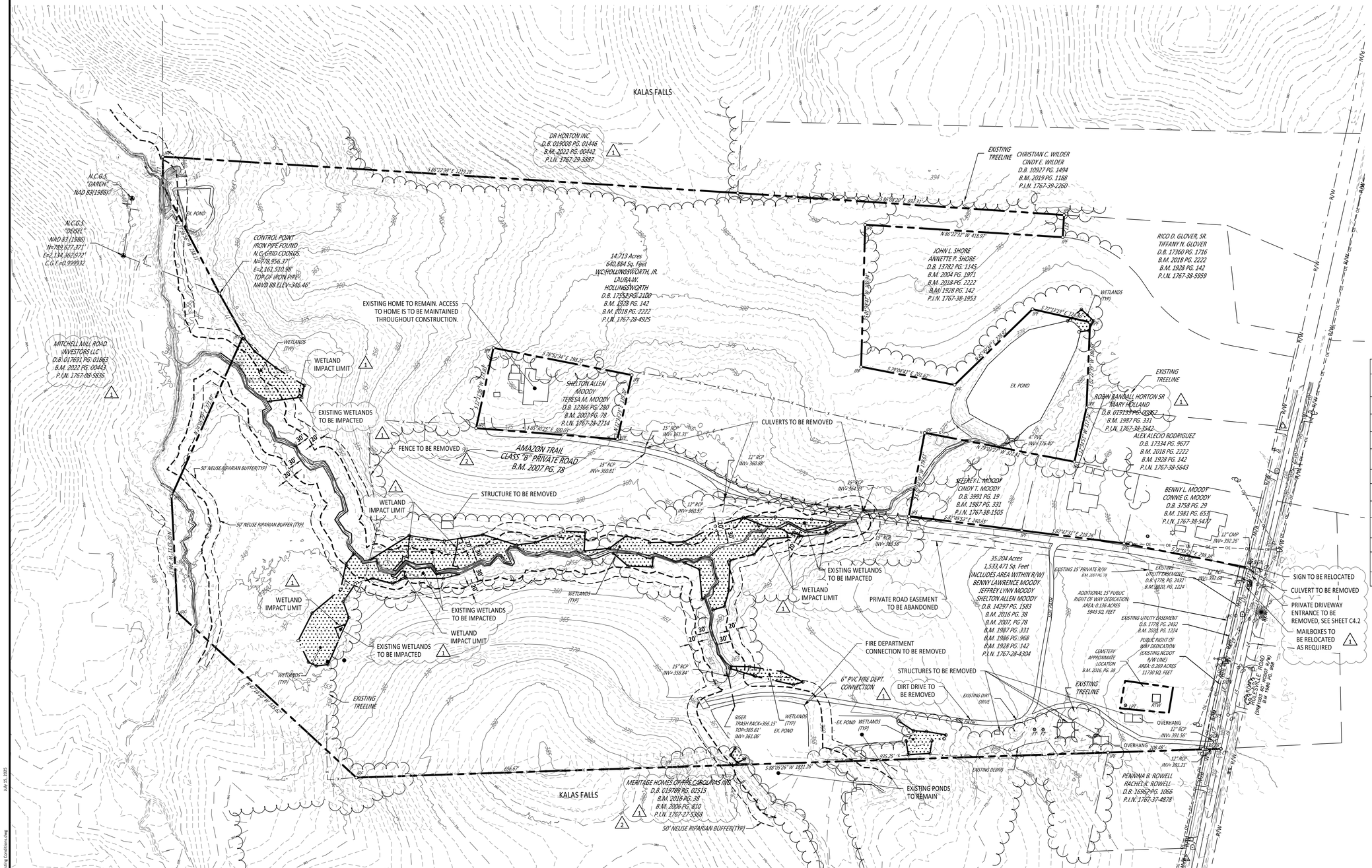
THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:
COVER

SHEET NO.:
CVR

July 16, 2025
Z:\Jobs\21-002 Moody Development Tract (R2100021)\dwg_Working Dwgs\Construction Set\0-0 CVR.dwg



LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 29°16'51" W	103.15'
L2	S 13°14'13" W	30.80'
L3	S 13°11'52" W	75.23'
L4	S 12°45'00" W	105.78'
L5	S 12°20'07" W	102.35'
L6	S 11°47'14" W	73.35'
L7	N 11°47'14" E	80.81'
L8	N 12°20'07" E	102.60'
L9	N 12°45'00" E	106.01'
L10	N 13°11'52" E	75.35'
L11	N 13°14'13" E	29.69'
L12	N 00°09'21" W	60.99'
L13	S 03°23'06" W	47.18'

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch =100

GENERAL NOTES:

1. TOPO SHOWN ON THIS SHEET IS 1' CONTOURS AND IS FIELD TOPOGRAPHY.
2. ACCESS TO EXISTING HOMES ALONG AMAZON TRAIL SHALL BE MAINTAINED DURING CONSTRUCTION.

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

NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

PRELIMINARY - DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA 36528 ENGINEER JAMES P. KLEIN

NO.	DATE	REVISION:
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THE PRESERVE AT MOODY FARM

CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:

OVERALL EXISTING CONDITIONS AND DEMOLITION PLAN

SHEET NO.:

C1.0

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

July 15, 2025
Z:\Jobs\21-002 Moody Development Tract (R21000)\dwg_Working Dwgs\Construction Set\1.0-Existing Conditions.dwg

GENERAL NOTES:

1

A. ALL TREE PROTECTION FENCING SHALL BE MAINTAINED UNTIL ALL SITE WORK HAS BEEN COMPLETED. THE FENCING SHALL BE REMOVED ONCE THE FINAL SITE INSPECTION AND ACCEPTANCE HAS BEEN GRANTED BY THE WAKE COUNTY EROSION CONTROL INSPECTOR.
B. WITHIN THE SIGHT TRIANGLES SHOWN ON ALL SITE PLAN AND LANDSCAPE PLAN SHEETS, NO OBSTRUCTION BETWEEN 2 FEET AND 8 FEET IN HEIGHT ABOVE THE CURB LINE ELEVATION SHALL BE LOCATED IN WHOLE OR PART. OBSTRUCTIONS INCLUDE, BUT ARE NOT LIMITED TO, ANY BERM, FOLIAGE, FENCE, WALL SIGN, PARKED CAR, OR OTHER OBJECT. ALL STREET TREES FALLING WITHIN THE SIGHT TRIANGLES SHOWN ON THIS PLAN SHALL BE LIMBED UP BETWEEN 2 FEET AND 8 FEET IN HEIGHT ABOVE THE CURB LINE ELEVATION.
C. MINIMUM CORNER CLEARANCE FROM THE CURB LINE OF INTERSECTING STREETS SHALL BE AT LEAST 20 FEET FROM THE POINT OF TANGENCY OF THE CURB. NO DRIVEWAYS SHALL ENCROACH ON THIS MINIMUM CORNER CLEARANCE.
D. ALL STREETS SHOWN ON THESE PLANS HAVE FULL WIDTH OF RIGHT-OF-WAY CLEARED AND GRADED WITHIN 50 FEET OF ALL STREET INTERSECTIONS. THE FULL WIDTH OF RIGHT-OF-WAY SHALL BE CLEARED AND GRADED ALONG ALL MAJOR, MINOR AND SENSITIVE AREA THOROUGHFARES.
E. WHEEL CHAIR ACCESS RAMPS WILL BE PROVIDED IN ACCORDANCE WITH STANDARD DRAWING SHOWN ON SHEET CD15. WHERE SIDEWALK IS NOT REQUIRED ALONG THE PUBLIC RIGHT-OF-WAY, CURB IS TO BE DEPRESSED AT ALL RAMP LOCATIONS SHOWN ON THE STANDARD DETAIL.
F. ALL INDIVIDUAL LOTS SHALL HAVE AN EROSION CONTROL PLAN SUBMITTED PRIOR TO CONSTRUCTION OF HOUSES THERE UPON. IF MULTIPLE LOTS WITH A TOTAL DISTURBED AREA OF MORE THAN 12,000 SF ARE TO BE BUILT UPON AT ONE TIME, A COORDINATED EROSION CONTROL PLAN SHALL BE SUBMITTED.
G. ALL PUBLIC WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.
H. CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL (1-800-632-4949) TO LOCATE ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
I. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE EXISTING UTILITIES AND NOTIFY THE PROJECT ENGINEER (919-469-1101) OF ANY CONFLICTS.
J. ALL BOUNDARY AND FIELD TOPOGRAPHY PROVIDED BY WITHERS & RAVENEL.
K. PHASE LINES SHOWN ARE SPECIFICALLY FOR ESTABLISHING LOTS THROUGH PLATTING PROCESS.

STANDARD UTILITY NOTES (AS APPLICABLE):

1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
2. UTILITY SEPARATION REQUIREMENTS:
   - A) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
   - B) WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
   - C) WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
   - D) 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER
   - E) MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORMDRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W- 41 & S-49).
   - F) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
4. DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO OWNER FOR ANY WORK REQUIRED WITHIN AN EXISTING CITY OF RALEIGH UTILITY EASEMENT TRAVERSING PRIVATE PROPERTY.
5. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24-HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT.
6. SEWER BYPASS PUMPING – A BYPASS PLAN SEALED BY AN NC PROFESSIONAL ENGINEER SHALL BE PROVIDED TO RALEIGH WATER PRIOR TO PUMPING OPERATIONS FOR APPROVAL. THE OPERATIONS AND EQUIPMENT SHALL COMPLY WITH THE PUBLIC UTILITIES HANDBOOK.
7. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
8. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
9. INSTALL ¾" COPPER* WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.
10. INSPECTIONS OF 4" AND LARGER WATER MAINS OF THE PRIVATE DISTRIBUTION SYSTEM WILL BE INSPECTED AS PART OF THE INFRASTRUCTURE PERMIT.
11. PRIVATE SEWER MAINS AS PART OF A COLLECTION SYSTEM ARE PERMITTED AND INSPECTED UNDER THE PRIVATE INFRASTRUCTURE PERMIT FOR SEWER.
12. ANY WATER OR SEWER SERVICES ON PRIVATE PROPERTY THAT WILL BE INSTALLED UNDER CONSTRUCTION DRAWINGS MAY REQUIRE A PLUMBING UTILITY PERMIT IN THE CITY OF RALEIGH. CONSULT WITH THE ENGINEERING INSPECTION COORDINATOR DURING THE PRE-CONSTRUCTION MEETING ON THE NECESSARY PERMITS.
13. INSTALL 4" PVC* SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
14. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
15. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
16. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
17. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE RW FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A UC AND/OR BUILDING PERMIT. CONTACT (919) 996-4516 OR FOG@RALEIGHNC.GOV FOR MORE INFORMATION.
18. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON THE DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA.
19. THE DEVICES SHALL MEET THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS AND BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST.
20. THE DEVICE AND INSTALLATION SHALL MEET THE GUIDELINES OF APPENDIX A – GUIDELINES AND REQUIREMENTS FOR THE CROSS CONNECTION PROGRAM IN RALEIGH'S SERVICE AREA.
21. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH, INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT CROSS.CONNECTION@RALEIGHNC.GOV FOR MORE INFORMATION.
22. NOTICE FOR PROJECTS THAT INVOLVE AN OVERSIZED MAIN OR URBAN MAIN REPLACEMENT. ANY CITY REIMBURSEMENT GREATER THAN $250,000.00 MUST UNDERGO THE PUBLIC BIDDING PROCESS.
23. PRIVATE SUB-METERING - NO RESALE OF WATER SHALL OCCUR WITHOUT APPROVAL OF THE NORTH CAROLINA UTILITY COMMISSION. SUB-METERING SHALL BE IN ACCORDANCE WITH SECTION 1400 OF THE "SAFE DRINKING WATER ACT".

NOTES FOR CONSTRUCTION:

1. PLANS FOR INFRASTRUCTURE ONLY.
2. ALL CONSTRUCTION MUST BE PERFORMED IN ACCORDANCE WITH CURRENT CITY OF RALEIGH STANDARD SPECS AND DETAILS, WAKE COUNTY SPECIFICATIONS, NCDOT SPECIFICATIONS AND TOWN OF ROLESVILLE SPECIFICATIONS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCIES BETWEEN FIELD CONDITIONS AND THESE DRAWINGS.
4. THERE ARE NO 100 YEAR FLOOD PLAINS PER FEMA MAP WITHIN PROPERTY.
5. CONTRACTOR WILL KEEP STREETS CLEAN AT ALL TIMES, OR A WASH STATION WILL BE REQUIRED.
6. ALL CATCH BASINS SHALL HAVE INLET PROTECTION.
7. ALL CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 14 DAYS OF ANY PHASE OF GRADING, WITH SOME SLOPES TO BE STABALIZED WITHIN 7 DAYS AS SHOWN ON CHART TO THE LEFT AND ON THE EC SHEETS..
8. TREE PROTECTION FENCING ON THIS PROJECT WILL BE INSTALLED AND INSPECTED BEFORE THE GRADING PERMIT IS ISSUED.
9. A PRE-CONSTRUCTION CONFERENCE MAY BE REQUIRED BEFORE GRADING PERMIT IS ISSUED. PERMANENT GROUND COVER WILL BE ESTABLISHED IN 15 WORKING DAYS OR 90 CALENDAR DAYS WHICHEVER IS SHORTER.
10. THE AREA DESIGNATED SHALL BE USED FOR TOPSOIL STOCKPILE.
11. THIS PROJECT IS IN THE NEUSE RIVER WATERSHED.
12. WETLANDS ON THIS PROJECT ARE AS SHOWN.
13. MINIMUM CORNER CLEARANCE FROM THE CURB LINE OF INTERSECTING STREETS SHALL BE AT LEAST TWENTY (20) FEET FROM THE POINT OF TANGENCY.

EROSION & SEDIMENT CONTROL NOTES:

1 3

STAGE 1 E&SC CONSTRUCTION SEQUENCE:

1. THE OWNER SHALL OBTAIN NCG01 PERMIT AND PAY ANY FEE THAT MAYBE ASSOCIATED WITH THIS PERMIT.
2. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WAKE COUNTY WATERSHED MANAGER.
3. ACCESS TO HOMES ALONG AMAZON TRAIL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THERE IS TO BE NO CONTRACTOR PARKING, STOCKPILING, STAGING, AND/OR BLOCKED ACCESS AT ANYTIME DURING CONSTRUCTION ACTIVITIES.
4. ENSURE THAT ALL LIMITS OF DISTURBANCE, SURFACE WATERS, AND RIPARIAN BUFFERS ARE FLAGGED PRIOR TO INSTALLATION OF EROSION CONTROL MEASURES.
5. TREE PROTECTION FENCES, SILT FENCES, AND CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS SHOWN ON THE APPROVED EROSION CONTROL PLANS.
6. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES INCLUDING STOCKPILE LOCATIONS. STOCKPILE LOCATIONS SHOULD BE ENCLOSED BY SILT FENCE AS SHOWN ON THE PLANS. SEED TEMPORARY DIVERSIONS, BERMS, AND SEDIMENT BASINS IMMEDIATELY AFTER CONSTRUCTION.
7. CONTRACTOR TO INSTALL BRIDGE MAT AS SHOWN ON EROSION AND SEDIMENT CONTROL PLANS FOR CREEK CROSSING, SEE PROJECT DETAILS.
8. THE TEMPORARY SEDIMENT BASINS (TSB) ARE TO BE FULLY CONSTRUCTED PRIOR TO THE INSTALLATION OF ANY TEMPORARY DIVERSION DITCHES (TDD) OR PERMANENT DIVERSION DITCHES (PDD). CONSTRUCT TSBS #1-#5 FOLLOWING THE PROJECT CONSTRUCTION INFRASTRUCTURE DRAWINGS PLAN SET. CONSTRUCT TEMPORARY SEDIMENT TRAP (TST) #1 FOLLOWING THE PROJECT CONSTRUCTION INFRASTRUCTURE DRAWINGS PLAN SET. INSTALL DIVERSION DIKES #1-#3 TO DIVERT RUNOFF AWAY FROM THE STREAM AND TO SEDIMENT TRAPS.
9. INSTALL BYPASS PDD #6 AND #7. INSTALL FOUR (4) TDD'S AND EIGHT (8) PDD'S TO CONVEY RUNOFF TO TSB #1 THRU TSB#5 AS SEEN IN THE CID PLAN SET. SEE PROJECT SCHEDULE SHEETS FOR RECOMMENDED CALCULATIONS AND LINERS.
10. INSTALL ANY PERMANENT/TEMPORARY STORMWATER INFRASTRUCTURE NOTED IN THE STAGE 1; CID PLAN SET. ANY PERMANENT STORMWATER INFRASTRUCTURE INSTALLED FOR STAGE 1 CONVEYANCE IS TO BE UTILIZED AND MAINTAINED THROUGH ALL THREE (3) STAGES OF EROSION AND SEDIMENT CONTROL. THE INFRASTRUCTURE WILL NEED TO BE MONITORED FOR SEDIMENT BUILD UP AND CLEANED PERIODICALLY. THESE PERMANENT PIPES AND STRUCTURES WILL SERVE THE TEMPORARY SEDIMENT BASINS AND ACT AS INLETS/OUTLETS FOR THE TDD'S AND PDD'S UNTIL THEY ARE EVENTUALLY MODIFIED TO FINAL SITE DESIGN IN STAGE 3 (FOLLOWING FINAL SITE STABILIZATION). THESE STORM DRAINAGE STRUCTURES MAY NEED TO BE MODIFIED AS THE PROJECT SITE IS BROUGHT TO THE FINAL GRADE ELEVATIONS. SEE EROSION AND SEDIMENT CONTROL PLANS FOR MORE DETAIL.
11. ANY STORMWATER INFRASTRUCTURE INSTALLED SHOULD HAVE INLETS PROTECTED WITH BLOCK AND GRAVEL INLET CONTROL, SEDIMENT TRAPS, OR OTHER APPROVED MEASURES AS SHOWN IN THE CID PLAN SET.
12. RIP RAP DISSIPATERS ARE TO BE INSTALLED AS SEEN IN THE CID PLAN SET SCHEDULES SHEET.
13. CALL FOR AN ONSITE INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER TO OBTAIN A CERTIFICATE OF COMPLIANCE. ADDITIONAL MEASURES OR DITCH EXTENSIONS MAY BE REQUIRED BY THE WAKE COUNTY FIELD INSPECTOR TO ROUTE RUNOFF TO SEDIMENT BASINS BASED ON FIELD CONDITIONS AND THESE MEASURES SHALL BE INSTALLED UPON THE INSPECTOR'S DETERMINATION.
14. STABILIZE SITE AREAS THAT ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH-LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
15. CALL FOR INSPECTION BY WAKE COUNTY WATERSHED MANAGER FOR APPROVAL BEFORE PROCEEDING TO STAGE 2 CONSTRUCTION.

STAGE 2 E&SC CONSTRUCTION SEQUENCE:

1. GENERAL SITE GRADING MAY BEGIN. ANY SLOPES GREATER THAN 3:1 ARE TO HAVE ROLLED EROSION CONTROL BLANKETS UTILIZED TO PREVENT SEDIMENT LOSS WHILE AREA IS STABILIZING. SEE STAGE 2 PLAN SHEETS FOR RECOMMENDED AREAS.
2. INSTALL STORM DRAINAGE INFRASTRUCTURE AS SEEN IN THE APPROVED CID PLAN SHEETS. EXCAVATE TRENCH, INSTALL SECTION(S) OF PIPE, BACKFILL AND STABILIZE GROUND DISTURBANCE WITHIN A WORKDAY. MODIFICATIONS AND/OR RETROFITTING OF STORM DRAINAGE INFRASTRUCTURE INSTALLED IN STAGE 1 WILL BE REQUIRED AS THE FINISH GRADE IS ESTABLISHED ON SITE.
3. ANY STORMWATER INFRASTRUCTURE INSTALLED SHOULD HAVE INLETS PROTECTED WITH BLOCK AND GRAVEL INLET CONTROL, SEDIMENT TRAPS, OR OTHER APPROVED MEASURES AS SHOWN IN THE PLANS.
4. CULVERT CROSSINGS ARE TO BE INSTALLED. SEE "CONSTRUCTION SEQUENCE FOR THE 54" RCP CULVERT CROSSING" ON SHEET C8.5 FOR DETAILED CREEK CROSSING CONSTRUCTION SEQUENCE.
5. ROAD CONSTRUCTION SHALL TAKE PLACE.
6. TST #1 TO BE REMOVED WHEN CONTRIBUTING DRAINAGE AREA IS AT FINAL GRADE ELEVATIONS AND FULLY STABILIZED. DIVERSION DIKE #1-#3 IS TO BE REMOVED.
7. CLEAN SEDIMENT BASINS WHEN ONE-HALF FULL.
8. SEED AND MULCH DENUDED AREA INCLUDING ANY CUT/FILL SLOPES WITHIN FOURTEEN (14) DAYS AFTER FINISHED GRADES ARE ESTABLISHED.
9. MAINTAIN SOIL EROSION CONTROL MEASURES.
10. UTILITIES (WATER, ELECTRIC, GAS, CABLE TV, TELEPHONE, ETC.) WILL BE INSTALLED DURING THIS PHASE.
11. CALL FOR INSPECTION BY WAKE COUNTY WATERSHED MANAGER FOR APPROVAL BEFORE PROCEEDING TO STAGE 3 CONSTRUCTION.

STAGE 3 E&SC CONSTRUCTION SEQUENCE:

1. CALL FOR AN ONSITE INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER FOR APPROVAL TO CONVERT TSB'S TO STORMWATER CONTROL MEASURES (SCM'S) FOLLOWING THE APPROVED CID PLAN SET. STORMWATER INFRASTRUCTURE SHOULD BE CLEANED OUT IF SEDIMENT IS VISIBLE WITHIN THE NETWORK.
2. VERTICAL CONSTRUCTION MAY BEGIN.
3. TEMPORARY DIVERSION DITCHES MAY BE REMOVED.
4. CLEAN/INSPECT INLET PROTECTION FOLLOWING ANY STORM EVENTS OF 1" OR EVERY FOURTEEN (14) DAYS.
5. SEED AND MULCH DENUDED AREA INCLUDING ANY CUT/FILL SLOPES WITHIN FOURTEEN (14) DAYS AFTER FINISHED GRADES ARE ESTABLISHED.
6. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND IS ESTABLISHED.
7. REQUEST INSPECTION BY WAKE COUNTY WATERSHED MANAGER AFTER VEGETATION IS ESTABLISHED TO REMOVE REMAINING EROSION CONTROL MEASURES.
8. REMOVE REMAINING SOIL EROSION CONTROL MEASURES AND STABILIZE THE RESULTING BARE AREAS. CONTACT WAKE COUNTY WATERSHED MANAGER TO REQUEST A FINAL INSPECTION FOR APPROVAL TO CLOSE THE LAND DISTURBANCE PERMIT.
9. THE OWNER IS TO FINALIZE THE NCG01 PERMIT.

SCM CONVERSION SEQUENCE:

1. WHEN ALL CONTRIBUTORY AREAS TO THE STORMWATER CONTROL MEASURE (SCM) HAVE BEEN STABILIZED CONTACT THE EROSION CONTROL OFFICER FOR PERMISSION TO CONVERT THE SEDIMENT BASIN (SB) TO A SCM.
2. REMOVE ALL SEDIMENT FROM THE BASIN AND RESTORE GRADES TO DESIGNED CONFIGURATION, IF NEEDED.
3. CONSTRUCT FOREBAY DIVIDERS AS SHOWN ON THE PLANS.
4. REMOVE TEMPORARY BAFFLES FROM THE BASIN.
5. MAKE ANY REPAIRS NECESSARY TO THE OUTLET STRUCTURE, OUTLET PIPE, EMERGENCY OVERFLOW, ETC. EXAMINE RIP-RAP TO SEE IF REFRESHING OR CLEANING OF ROCK IS NECESSARY.
6. INSTALL SHELF PLANTINGS AS SHOWN ON THE PLANS. CHECK THAT ALL SLOPES ARE PROPERLY STABILIZED.
7. BE SURE THAT THE TRASH RACKS ARE IN PLACE AND PROPERLY FUNCTIONING. REMOVE SKIMMER AND CLOSE OUTLET VALVE.
8. CONTACT EROSION CONTROL OFFICER FOR APPROVAL.
9. CONTACT A LICENSED SURVEYOR FOR SURVEY OF AS-BUILT CONDITIONS. NOTIFY ENGINEER-OF-RECORD FOR PREPARATION OF AS-BUILT DRAWINGS.

REQUIRED WAKE COUNTY CONSTRUCTION SEQUENCE*

1. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE WATERSHED MANGER. OBTAIN A LAND-DISTURBING PERMIT.
2. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
3. CALL FOR AN ONSITE INSPECTION BY THE WATERSHED MANAGER TO OBTAIN A CERTIFICATE OF COMPLIANCE.
4. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
5. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
7. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL FOR AN INSPECTION BY THE WATERSHED MANAGER.
8. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
9. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE WATERSHED MANAGER. OBTAIN A CERTIFICATE OF COMPLETION.

STOCKPILE DESIGN CRITERIA

A. A 25-FOOT TEMPORARY MAINTENANCE AND ACCESS EASEMENT SHALL BE SHOWN AROUND ALL PROPOSED STOCKPILES (EROSION CONTROL MEASURES SURROUNDING THE STOCKPILE SHALL BE SHOWN AT THE OUTER LIMIT OF THIS EASEMENT).
B. STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES.
C. A NOTE SHALL BE PROVIDED ON THE APPROVED PLAN THAT STOCKPILE HEIGHT SHALL NOT EXCEED 35 FEET.
D. STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.
E. APPROVED BMPS SHALL BE SHOWN ON A PLAN TO CONTROL ANY POTENTIAL SEDIMENT LOSS FROM A STOCKPILE.
F. STOCKPILING MATERIALS ADJACENT TO A DITCH, DRAINAGEWAY, WATERCOURSE, WETLAND, STREAM BUFFER, OR OTHER BODY OF WATER SHALL BE AVOIDED UNLESS AN ALTERNATIVE LOCATION IS DEMONSTRATED TO BE UNAVAILABLE.
G. ANY CONCENTRATED FLOW LIKELY TO AFFECT THE STOCKPILE SHALL BE DIVERTED TO AN APPROVED BMP.
H. OFF-SITE SPOIL OR BORROW AREAS MUST BE IN COMPLIANCE WITH WAKE COUNTY UDO AND STATE REGULATIONS. ALL SPOIL AREAS OVER AN ACRE ARE REQUIRED TO HAVE AN APPROVED SEDIMENT CONTROL PLAN. DEVELOPER/CONTRACTOR SHALL NOTIFY WAKE COUNTY OF ANY OFFSITE DISPOSAL OR SOIL, PRIOR TO DISPOSAL. FILL OF FEMA FLOODWAYS AND NON-ENCROACHMENT AREAS ARE PROHIBITED EXCEPT AS OTHERWISE PROVIDED BY SUBSECTION 14-19-2 OF THE WAKE COUNTY UNIFIED DEVELOPMENT ORDINANCE (CERTIFICATIONS AND PERMITS REQUIRED).

MAINTENANCE REQUIREMENTS TO BE NOTED ON THE PLAN

I. SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEYED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
J. IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.
K. THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
L. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

REQUIRED WAKE COUNTY BASIN REMOVAL SEQUENCE

1. SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.
2. REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF CULVERT PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
3. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ASPHALT TACK ANY RESULTING BARE AREAS IMMEDIATELY.
4. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
5. WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION.

NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.

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NORTH CAROLINA ENGINEERING CORPORATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

PRELIMINARY - DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
26528
JAMES P. KLEIN
ENGINEERING

REVISION:

NO.	DATE	REVISION
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFF-LINE)

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.

THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:

GENERAL NOTES

SHEET NO.:

C2.0

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

July 15, 2025
Z:\Jobs\21-002 Moody Development Tract (82100025\Dwg_Working Dwgs\Construction Set\C2 Notes.dwg

MAINTENANCE OF EROSION CONTROL MEASURES

SILT FENCE MAINTENANCE - INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFGER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SILT FENCE OUTLETS - SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY SIGNIFICANT RAINFALL. IF DAMAGED, THEY SHALL HAVE FABRIC, POSTS OR WIRE BACKING REPLACED TO RESTORE TO ORIGINAL CONDITION.

TREE PROTECTION FENCE MAINTENANCE - CONTINUE TO CARE FOR THE SITE UNTIL THE NEW OWNER TAKES POSSESSION. TAKE THESE STEPS AFTER ALL MATERIALS AND EQUIPMENT HAVE BEEN REMOVED FROM THE SITE:

- REMOVE TREE PROTECTION ZONE FENCES.
- PRUNE ANY DAMAGED TREES. IN SPITE OF PRECAUTIONS, SOME DAMAGE TO PROTECTED TREES MAY OCCUR. IN SUCH CASES, REPAIR ANY DAMAGE TO THE CROWN, TRUNK, OR ROOT SYSTEM IMMEDIATELY.
- REPAIR ROOTS BY CUTTING OFF THE DAMAGED AREAS AND PAINTING THEM WITH TREE PAINT SPREAD PEAT MOSS OR MOIST TOPSOIL OVER EXPOSED ROOTS.
- REPAIR DAMAGE TO BARK BY TRIMMING AROUND THE DAMAGED AREA AS SHOWN IN FIGURE 6.05D, TAPER THE CUT TO PROVIDE DRAINAGE, AND PAINT WITH TREE PAINT.
- CUT OFF ALL DAMAGED TREE LIMBS ABOVE THE TREE COLLAR AT THE TRUNK OR MAIN BRANCH. USE THREE SEPARATE CUTS AS SHOWN IN FIGURE 6.05D TO AVOID PEELING BARK FROM HEALTHY AREAS OF THE TREE.
- CONTINUE MAINTENANCE CARE. PAY SPECIAL ATTENTION TO ANY STRESSED, DISEASED, OR INSECT-INFESTED TREES. REDUCE TREE STRESS CAUSED BY UNINTENDED CONSTRUCTION DAMAGE BY OPTIMIZING PLANT CARE WITH WATER, MULCH, AND FERTILIZER WHERE APPROPRIATE. CONSULT YOUR TREE EXPERT IF NEEDED.
- INFORM THE PROPERTY OWNER ABOUT THE MEASURES EMPLOYED DURING CONSTRUCTION, WHY THOSE MEASURES WERE TAKEN, AND HOW THE EFFORT CAN BE CONTINUED.

CONSTRUCTION ENTRANCE - MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

SOIL STOCKPILE AREAS/OTHER GRASSED AREAS MAINTENANCE - GRASS AREAS SHALL BE RESEEDED AS NECESSARY. SOIL STOCKPILE AREAS SHALL BE SEEDED WHEN THEIR USE IS COMPLETE.

TEMPORARY SEDIMENT TRAP - INSPECT TEMPORARY SEDIMENT TRAPS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (½ INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT, AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN THE DESIGNATED DISPOSAL AREA AND REPLACE THE PART OF THE GRAVEL FACING THAT IS IMPAIRED BY SEDIMENT.

CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM OF 1.5 FEET BELOW THE LOW POINT OF THE EMBANKMENT. IMMEDIATELY FILL ANY SETTLEMENT OF THE EMBANKMENT TO SLIGHTLY ABOVE DESIGN GRADE. ANY RIPRAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY.

AFTER ALL SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY (REFERENCES: SURFACE STABILIZATION).

SEDIMENT BASINS - INSPECT TEMPORARY SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN IT ACCUMULATES TO ONE-HALF THE DESIGN DEPTH. PLACE REMOVED SEDIMENT IN AN AREA WITH SEDIMENT CONTROLS.

CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE RISER AND POOL AREA.

CONCRETE WASHOUT - IT SHALL BE CLEANED PERIODICALLY AS NEEDED. IF THE PLASTIC LINER IS DAMAGED, IT SHALL BE REPLACED.

BAFFLES - INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.

BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL, TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES.TAKE CARE TO AVOID DAMAGING THE BAFFLES DURING CLEANOUT AND REPLACE IF DAMAGED DURING CLEANOUT OPERATIONS. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.

AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, BRING THE AREA TO GRADE, AND STABILIZE IT.

ROLLED EROSION CONTROL PRODUCTS -

1. INSPECT ROLLED EROSION CONTROL PRODUCTS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAIN FALL EVENT REPAIR IMMEDIATELY.
2. GOOD CONTACT WITH THE GROUND MUST BE MAINTAINED, AND EROSION MUST NOT OCCUR BENEATH THE RECP.
3. ANY AREAS OF THE RECP THAT ARE DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED AND STAPLED.
4. IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREA PROTECTED.
5. MONITOR AND REPAIR THE RECP AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.

SKIMMERS - INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT J UST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.

REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM.

IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS.ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO, REMOVE THE DEBRIS.

IF THE SKIMMER AND/ OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

GRASSED LINED CHANNEL- DURING THE ESTABLISHMENT PERIOD, CHECK GRASS-LINED CHANNELS AFTER EVERY RAINFALL.AFTER GRASS IS ESTABLISHED, PERIODICALLY CHECK THE CHANNEL; CHECK IT AFTER EVERY HEAVY RAINFALL EVENT. IMMEDIATELY MAKE REPAIRS. IT IS PARTICULARLY IMPORTANT TO CHECK THE CHANNEL OUTLET AND ALL ROAD CROSSINGS FOR BANK STABILITY AND EVIDENCE OF PIPING OR SCOUR HOLES. REMOVE ALL SIGNIFICANT SEDIMENT ACCUMULATIONS TO MAINTAIN THE DESIGNED CARRYING CAPACITY. KEEP THE GRASS IN A HEALTHY, VIGOROUS CONDITION AT ALL TIMES, SINCE IT IS THE PRIMARY EROSION PROTECTION FOR THE CHANNEL (PRACTICE 6.11, PERMANENT SEEDING).

RIP-RAP CHANNEL - INSPECT CHANNELS AT REGULAR INTERVALS AS WELL AS AFTER MAJOR RAINS, AND MAKE REPAIRS PROMPTLY. GIVE SPECIAL ATTENTION TO THE OUTLET AND INLET SECTIONS AND OTHER POINTS WHERE CONCENTRATED FLOW ENTERS. CAREFULLY CHECK STABILITY AT ROAD CROSSINGS, AND LOOK FOR INDICATIONS OF PIPING, SCOUR HOLES, OR BANK FAILURES. MAKE REPAIRS IMMEDIATELY. MAINTAIN ALL VEGETATION ADJACENT TO THE CHANNEL IN A HEALTHY, VIGOROUS CONDITION TO PROTECT THE AREA FROM EROSION AND SCOUR DURING OUT-OF-BANK FLOW.

OUTLET STABILIZATION STRUCTURE - INSPECT RIPRAP OUTLET STRUCTURES WEEKLY AND AFTER SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE, OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE

TEMPORARY SILT DITCH - SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY SIGNIFICANT RAINFALL. IF SIGNIFICANT EROSION OF THE DITCH IS HAPPENING IT SHALL BE RE-GRADED. ANY BREACH OF THE DOWNHILL SIDE BERM SHALL BE FIXED IMMEDIATELY.

WATTLES/COMPOST SOCK - INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER). REMOVE ACCUMULATED SEDIMENT AND ANY DEBRIS. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED

ROCK PIPE INLET PROTECTION - INSPECT ROCK PIPE INLET PROTECTION AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (½ INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE SEDIMENT STORAGE AREA TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN THE DESIGNATED DISPOSAL AREA AND REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING.

CHECK THE STRUCTURE FOR DAMAGE. ANY RIPRAP DISPLACED FROM THE STONE HORSESHOE MUST BE REPLACED IMMEDIATELY.

AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND PROVIDE PERMANENT GROUND COVER (SURFACE STABILIZATION).

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

NORTH CAROLINA ENGINEERING CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

PRELIMINARY - DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER
16528
JAMES P. KLEIN

NO.	DATE	REVISION:
1	02.03.2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04.01.2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06.02.2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07.16.2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFF-LINE)

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.

THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:
GENERAL NOTES

SHEET NO.:
C2.1

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

July 15, 2025

Z:\Jobs\21-002 Moody Development Trust (RZ19003)\dwg_Working Dwgs\Construction Set\2.0 Notes.dwg

EROSION CONTROL LEGEND		REFERENCE DETAIL
SF	SILT FENCE	CD3
LOD	LIMITS OF DISTURBANCE	-
TF	TREE PROTECTION FENCE	CD1
TF/SF	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
> >	PERMANENT DIVERSION DITCH	CD1
>>	TEMPORARY DIVERSION DITCH	CD1
	SILT FENCE OUTLET	CD3
	SEDIMENT SACK INLET PROTECTION	CD2
	STANDARD PIPE INLET PROTECTION	CD2
	GRAVEL INLET PROTECTION	CD2
	GRAVEL CHECK DAM	CD1
	MAINTENANCE PAD	CD4
	RIPRAP DISSIPATOR	CD2
x x	BAFFLE	CD1
	TEMPORARY DRAINAGE PIPE	-
	WATTLE	CD5
	SKIMMER	CD3
	TEMPORARY SEDIMENT BASIN	CD3
	STAGING AND LAYDOWN AREA	CD5
	DIVERSION DIKE	CD3

SITE LEGEND	
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	PROPOSED ROW
	WETLANDS

DISTURBED AREA
SF — SILT FENCE
TF — TREE FENCE/LOD

TF/SF EXHIBIT

GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1 inch =100

GENERAL NOTES:

1. ACCESS TO HOMES ALONG AMAZON TRAIL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
2. SB IS SEDIMENT BASIN.
3. TST IS TEMPORARY SEDIMENT TRAP.

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American Engineering Associates - Southeast, P.A.
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Raleigh, NC 27607
919-469-1101

NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

PRELIMINARY - DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER 16528 JACOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

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.

THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

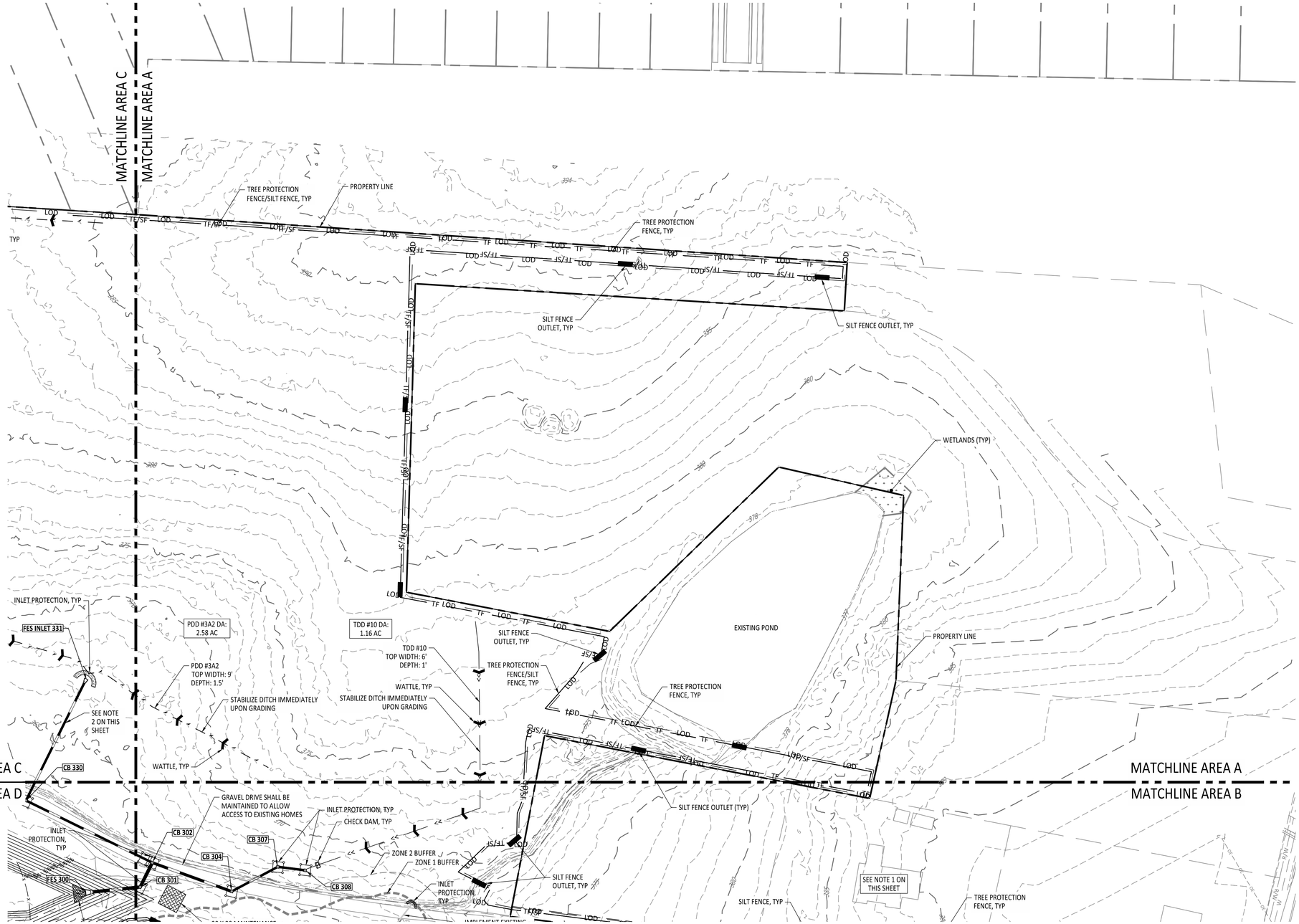
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:
OVERALL ESC STAGE 1

SHEET NO.:
C3.0

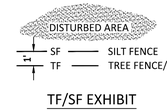
North Carolina 811 Before You Dig
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\21-002 Moody Development Tract (R)\100\03\dwg_Working Dwgs\Construction Set\3.0-3.4 Erosion Control Stage 1.dwg July 15, 2025



EROSION CONTROL LEGEND		REFERENCE DETAIL
SF	SILT FENCE	CD3
LOD	LIMITS OF DISTURBANCE	-
TF	TREE PROTECTION FENCE	CD1
TF/SF	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
	PERMANENT DIVERSION DITCH	CD1
>>	TEMPORARY DIVERSION DITCH	CD1
	SILT FENCE OUTLET	CD3
	SEDIMENT SACK INLET PROTECTION	CD2
	STANDARD PIPE INLET PROTECTION	CD2
	GRAVEL INLET PROTECTION	CD2
	GRAVEL CHECK DAM	CD1
	MAINTENANCE PAD	CD4
	RIPRAP DISSIPATOR	CD2
x x	BAFFLE	CD1
	TEMPORARY DRAINAGE PIPE	-
	WATTLE	CD5
	SKIMMER	CD3
	TEMPORARY SEDIMENT BASIN	CD3
	STAGING AND LAYDOWN AREA	CD5
	DIVERSION DIKE	CD3

SITE LEGEND	
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	PROPOSED ROW
	WETLANDS



TF/SF EXHIBIT

GENERAL NOTES:

1. ACCESS TO HOMES ALONG AMAZON TRAIL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THERE IS TO BE NO CONTRACTOR PARKING, STOCKPILING, STAGING, OR BLOCKED ACCESS AT ANYTIME DURING CONSTRUCTION ACTIVITIES.
2. ALL PROPOSED DRAINAGE INFRASTRUCTURE IS PERMANENT AND WILL SERVE TEMPORARY SEDIMENT BASIN. SEE STORM DRAINAGE SCHEDULES FOR PIPE AND STRUCTURE DATA. NOTE THAT STRUCTURES MAY HAVE TO BE RETROFITTED AS THE SITE IS BROUGHT TO FINISH GRADE. SEE PROJECT CONSTRUCTION SEQUENCE FOR FURTHER DETAIL.
3. SEE DRAINAGE AND GRADING SHEETS FOR ALL PERMANENT DIVERSION DITCH DESIGN.
4. SEE PROJECT SCHEDULES FOR PERMANENT & TEMPORARY DIVERSION DITCH CALCULATIONS.
5. TEMPORARY SEDIMENT BASINS (TSB) ARE TO BE CONVERTED PERMANENT SCM'S AT FINAL STAGE OF E&SC. SEE PROJECT CONSTRUCTION SEQUENCE. TSB GEOMETRY, ELEVATIONS, AND INFRASTRUCTURE IS TO BE CONSTRUCTED AS SEEN ON APPROVED GRADING AND DRAINAGE CID PLAN SHEETS.
6. PERMANENT DIVERSION DITCH #6 AND #7 (PDD) ARE TO BYPASS PROJECT SCM'S AND DIVERT OFFSITE RUNOFF TO WETLANDS. SEE PROJECT CONSTRUCTION SEQUENCE. SEE GRADING AND DRAINAGE SHEETS FOR BYPASS PDD DESIGN AND CALCULATIONS.
7. SEE PROJECT SCHEDULE SHEETS FOR RIP RAP CALCULATIONS.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50

AMERICAN Engineering

American Engineering Associates - Southeast, P.A.
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Raleigh, NC 27607
919-469-1101

NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER 26528 JAROB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:

ESC STAGE 1 A

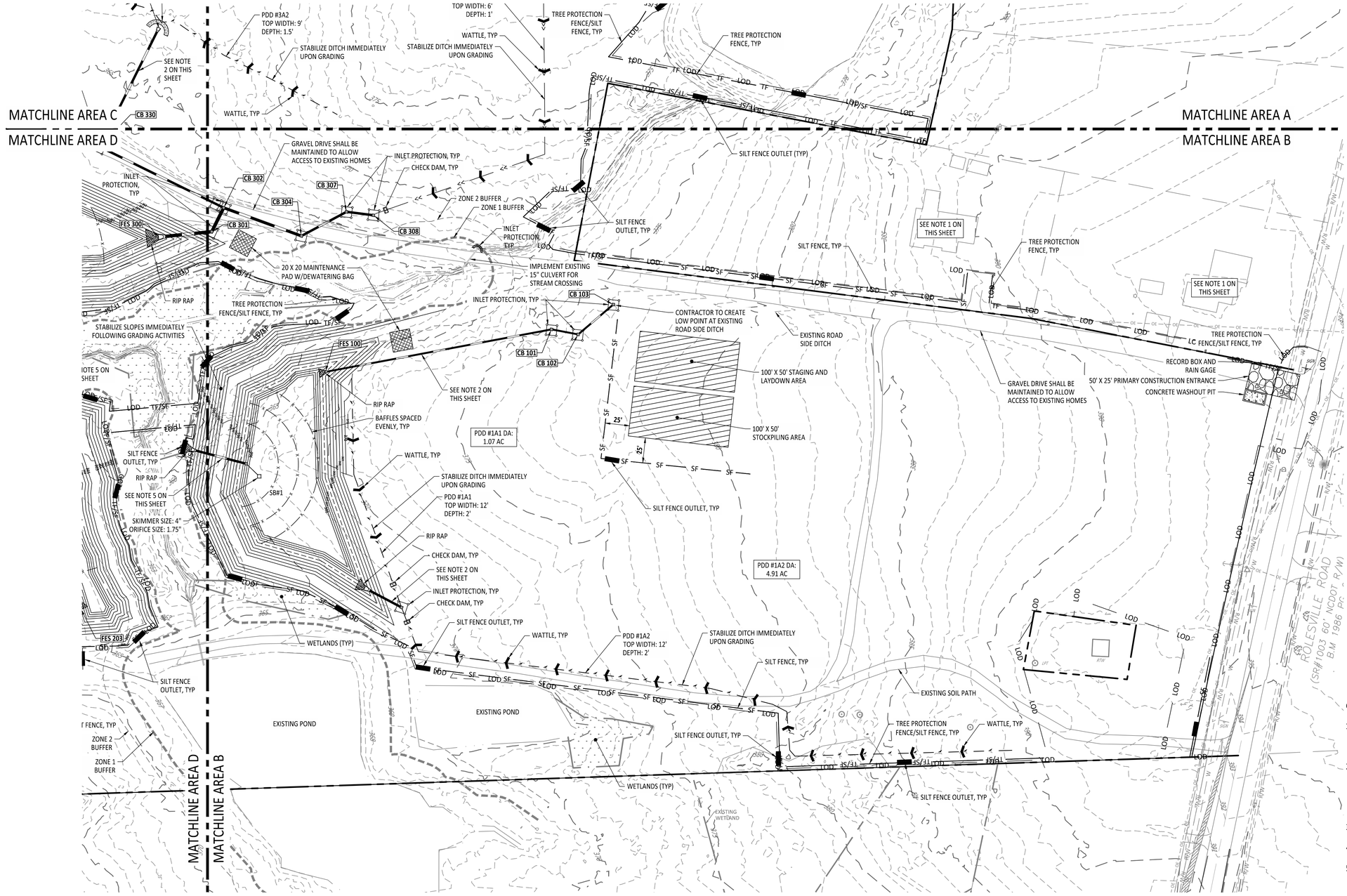
SHEET NO.:

C3.1

North Carolina 811 811.ncgov

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

July 15, 2025
Z:\Jobs\21-002 Moody Development Tract (8210005)\Final_Working\Dwgs\Construction Set\3.0-3.4 Erosion Control Stage 1.dwg



EROSION CONTROL LEGEND		REFERENCE DETAIL
SF	SILT FENCE	CD3
LOD	LIMITS OF DISTURBANCE	-
TF	TREE PROTECTION FENCE	CD1
TF/SF	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
	PERMANENT DIVERSION DITCH	CD1
>>	TEMPORARY DIVERSION DITCH	CD1
	SILT FENCE OUTLET	CD3
	SEDIMENT SACK INLET PROTECTION	CD2
	STANDARD PIPE INLET PROTECTION	CD2
	GRAVEL INLET PROTECTION	CD2
	GRAVEL CHECK DAM	CD1
	MAINTENANCE PAD	CD4
	RIPRAP DISSIPATOR	CD2
x x	BAFFLE	CD1
	TEMPORARY DRAINAGE PIPE	-
	WATTLE	CD5
	SKIMMER	CD3
	TEMPORARY SEDIMENT BASIN	CD3
	STAGING AND LAYDOWN AREA	CD5
	DIVERSION DIKE	CD3

SITE LEGEND	
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	PROPOSED ROW
	WETLANDS

DISTURBED AREA
SF SILT FENCE
TF TREE FENCE/LOD

TF/SF EXHIBIT

GENERAL NOTES:

1. ACCESS TO HOMES ALONG AMAZON TRAIL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THERE IS TO BE NO CONTRACTOR PARKING, STOCKPILING, STAGING, OR BLOCKED ACCESS AT ANYTIME DURING CONSTRUCTION ACTIVITIES.
2. ALL PROPOSED DRAINAGE INFRASTRUCTURE IS PERMANENT AND WILL SERVE TEMPORARY SEDIMENT BASIN. SEE STORM DRAINAGE SCHEDULES FOR PIPE AND STRUCTURE DATA. NOTE THAT STRUCTURES MAY HAVE TO BE RETROFITTED AS THE SITE IS BROUGHT TO FINISH GRADE. SEE PROJECT CONSTRUCTION SEQUENCE FOR FURTHER DETAIL.
3. SEE DRAINAGE AND GRADING SHEETS FOR ALL PERMANENT DIVERSION DITCH DESIGN.
4. SEE PROJECT SCHEDULES FOR PERMANENT & TEMPORARY DIVERSION DITCH CALCULATIONS.
5. TEMPORARY SEDIMENT BASINS (TSB) ARE TO BE CONVERTED PERMANENT SCM'S AT FINAL STAGE OF E&SC. SEE PROJECT CONSTRUCTION SEQUENCE. TSB GEOMETRY, ELEVATIONS, AND INFRASTRUCTURE IS TO BE CONSTRUCTED AS SEEN ON APPROVED GRADING AND DRAINAGE CID PLAN SHEETS.
6. PERMANENT DIVERSION DITCH #6 AND #7 (PDD) ARE TO BYPASS PROJECT SCM'S AND DIVERT OFFSITE RUNOFF TO WETLANDS. SEE PROJECT CONSTRUCTION SEQUENCE. SEE GRADING AND DRAINAGE SHEETS FOR BYPASS PDD DESIGN AND CALCULATIONS.
7. SEE PROJECT SCHEDULE SHEETS FOR RIP RAP CALCULATIONS.

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

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

NORTH CAROLINA ENGINEERING CORPORATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

PRELIMINARY
- DO NOT USE FOR CONSTRUCTION
PROFESSIONAL ENGINEER
052538
JAKOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

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.

THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

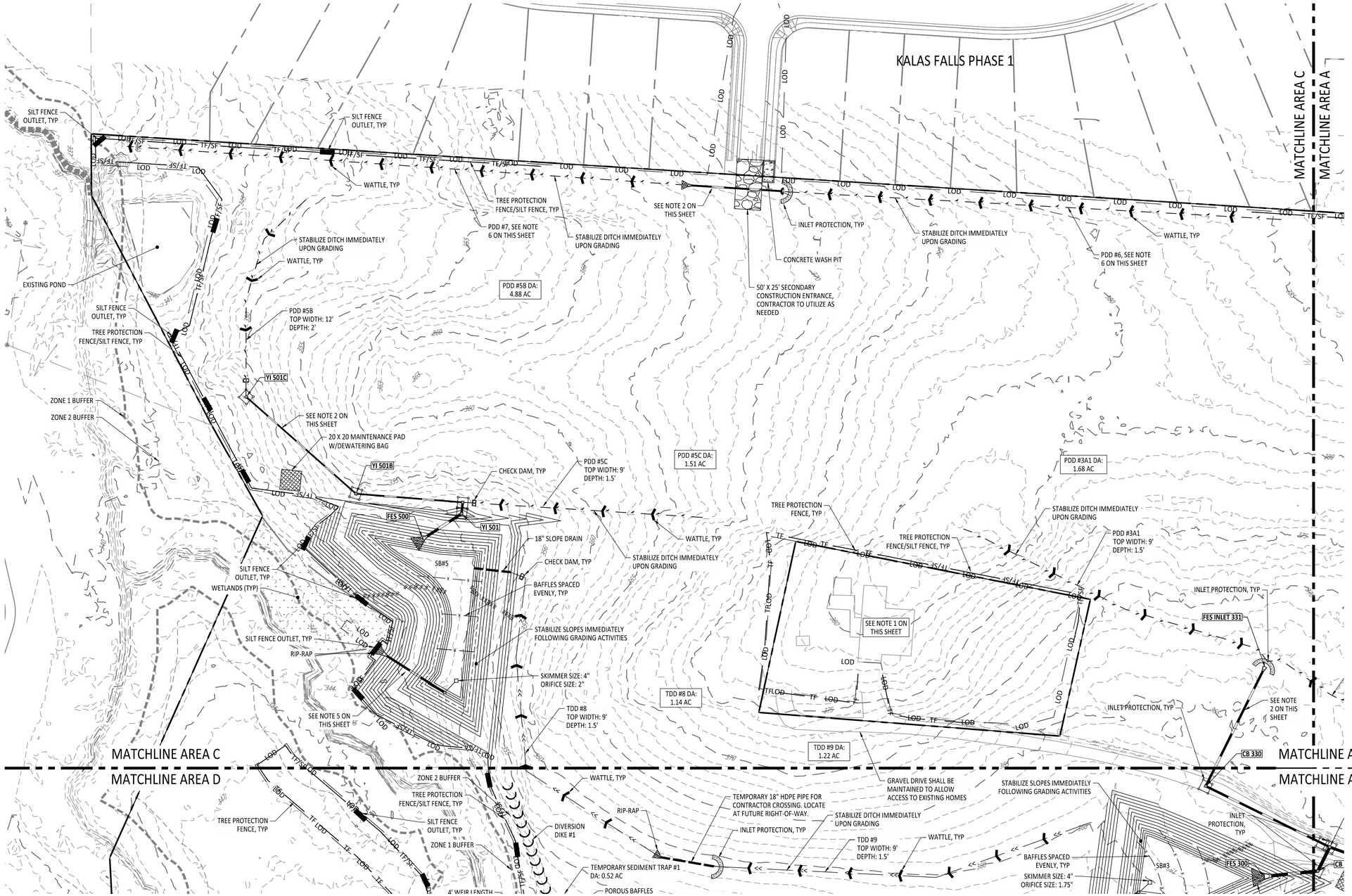
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:
ESC STAGE 1 B

SHEET NO.:
C3.2

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

Z:\Jobs\21-002\Moody Development Tract (8210002)\dwg_Working Dwgs\Construction Set\1.0-3.4 Erosion Control\Stage 1.dwg July 15, 2025



EROSION CONTROL LEGEND		REFERENCE DETAIL
SF	SILT FENCE	CD3
LOD	LIMITS OF DISTURBANCE	-
TF	TREE PROTECTION FENCE	CD1
TF/SF	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
	PERMANENT DIVERSION DITCH	CD1
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	GRAVEL INLET PROTECTION	CD2
	GRAVEL CHECK DAM	CD1
	MAINTENANCE PAD	CD4
	RIPRAP DISSIPATOR	CD2
x x	BAFFLE	CD1
	TEMPORARY DRAINAGE PIPE	-
	WATTLE	CD5
	SKIMMER	CD3
	TEMPORARY SEDIMENT BASIN	CD3
	STAGING AND LAYDOWN AREA	CD5
	DIVERSION DIKE	CD3

SITE LEGEND	
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	PROPOSED ROW
	WETLANDS

GENERAL NOTES:

1. ACCESS TO HOMES ALONG AMAZON TRAIL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THERE IS TO BE NO CONTRACTOR PARKING, STOCKPILING, STAGING, OR BLOCKED ACCESS AT ANYTIME DURING CONSTRUCTION ACTIVITIES.
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3. SEE DRAINAGE AND GRADING SHEETS FOR ALL PERMANENT DIVERSION DITCH DESIGN.
4. SEE PROJECT SCHEDULES FOR PERMANENT & TEMPORARY DIVERSION DITCH CALCULATIONS.
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7. SEE PROJECT SCHEDULE SHEETS FOR RIP RAP CALCULATIONS.

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

AMERICAN Engineering
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Raleigh, NC 27607
919-469-1101

NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

PRELIMINARY - DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER 25528 JAROD P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

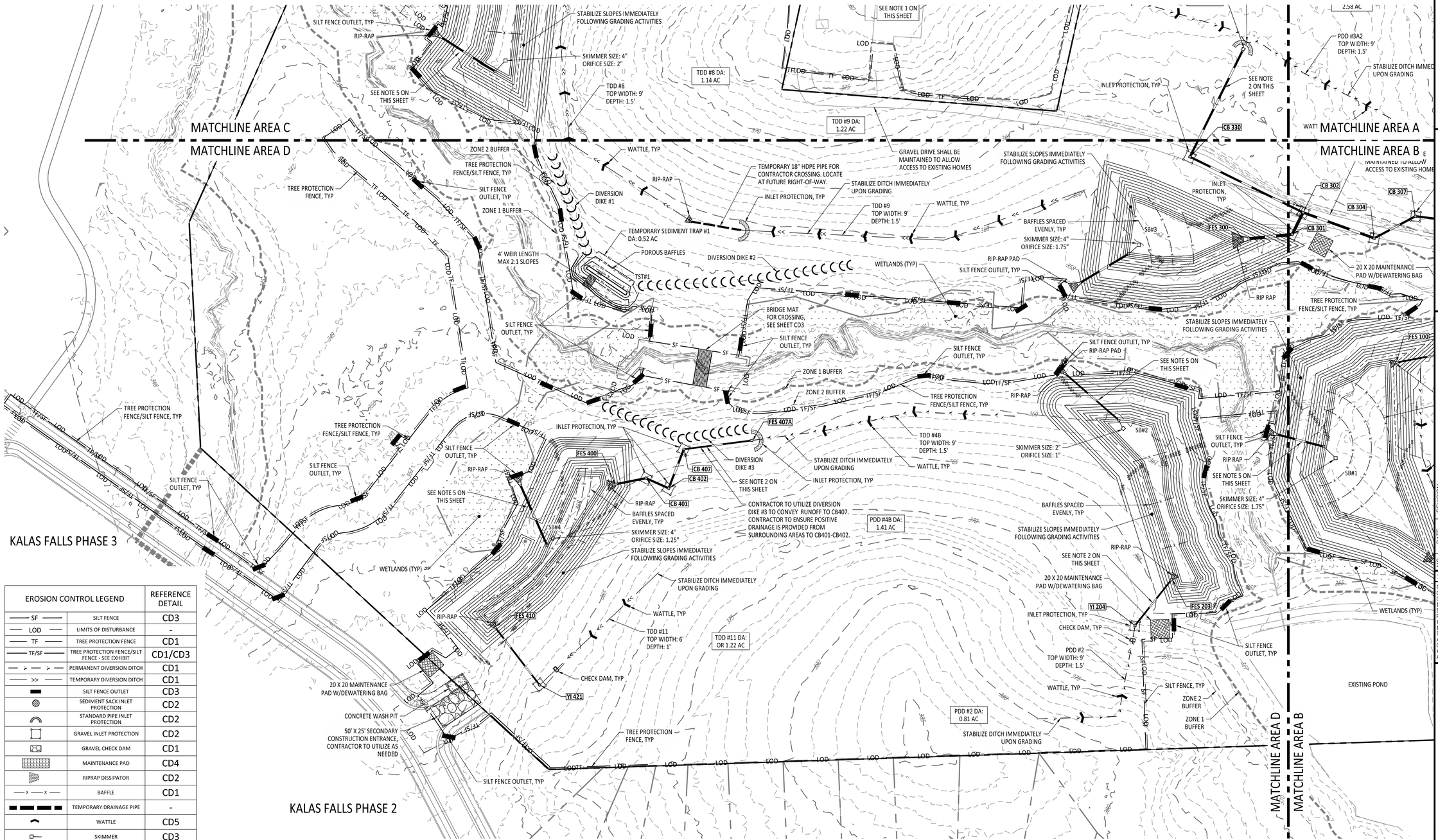
SHEET TITLE:

ESC STAGE 1 C

SHEET NO.:
C3.3

North Carolina 811 811 it's the law!
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\21-002 Moody Development Trust [A210002]\Acad_Working Dwgs\Construction Set\13-3 14 Erosion Control Stage 1.dwg
July 15, 2025

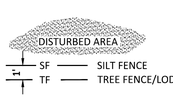


EROSION CONTROL LEGEND		REFERENCE DETAIL
SF	SILT FENCE	CD3
LOD	LIMITS OF DISTURBANCE	-
TF	TREE PROTECTION FENCE	CD1
TF/SF	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
	PERMANENT DIVERSION DITCH	CD1
>>	TEMPORARY DIVERSION DITCH	CD1
	SILT FENCE OUTLET	CD3
	SEDIMENT SACK INLET PROTECTION	CD2
	STANDARD PIPE INLET PROTECTION	CD2
	GRAVEL INLET PROTECTION	CD2
	GRAVEL CHECK DAM	CD1
	MAINTENANCE PAD	CD4
	RIPRAP DISSIPATOR	CD2
x x	BAFFLE	CD1
	TEMPORARY DRAINAGE PIPE	-
	WATTLE	CD5
	SKIMMER	CD3
	TEMPORARY SEDIMENT BASIN	CD3
	STAGING AND LAYDOWN AREA	CD5
	DIVERSION DIKE	CD3

SITE LEGEND	
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	PROPOSED ROW
	WETLANDS

GENERAL NOTES:

1. ACCESS TO HOMES ALONG AMAZON TRAIL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THERE IS TO BE NO CONTRACTOR PARKING, STOCKPILING, STAGING, OR BLOCKED ACCESS AT ANYTIME DURING CONSTRUCTION ACTIVITIES.
2. ALL PROPOSED DRAINAGE INFRASTRUCTURE IS PERMANENT AND WILL SERVE TEMPORARY SEDIMENT BASIN. SEE STORM DRAINAGE SCHEDULES FOR PIPE AND STRUCTURE DATA. NOTE THAT STRUCTURES MAY HAVE TO BE RETROFITTED AS THE SITE IS BROUGHT TO FINISH GRADE. SEE PROJECT CONSTRUCTION SEQUENCE FOR FURTHER DETAIL.
3. SEE DRAINAGE AND GRADING SHEETS FOR ALL PERMANENT DIVERSION DITCH DESIGN.
4. SEE PROJECT SCHEDULES FOR PERMANENT & TEMPORARY DIVERSION DITCH CALCULATIONS.
5. TEMPORARY SEDIMENT BASINS (TSB) ARE TO BE CONVERTED PERMANENT SCM'S AT FINAL STAGE OF E&SC. SEE PROJECT CONSTRUCTION SEQUENCE. TSB GEOMETRY, ELEVATIONS, AND INFRASTRUCTURE IS TO BE CONSTRUCTED AS SEEN ON APPROVED GRADING AND DRAINAGE CID PLAN SHEETS.
6. PERMANENT DIVERSION DITCH #6 AND #7 (PDD) ARE TO BYPASS PROJECT SCM'S AND DIVERT OFFSITE RUNOFF TO WETLANDS. SEE PROJECT CONSTRUCTION SEQUENCE. SEE GRADING AND DRAINAGE SHEETS FOR BYPASS PDD DESIGN AND CALCULATIONS.
7. SEE PROJECT SCHEDULE SHEETS FOR RIP RAP CALCULATIONS.



TF/SF EXHIBIT

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

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

NORTH CAROLINA ENGINEERING CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881

PRELIMINARY
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER 052526
JAKOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

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.

THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER:	21-002
CHECKED BY:	JK
DRAWN BY:	RC
DATE:	07/16/2025

SHEET TITLE:

ESC STAGE 1 D

SHEET NO.:

C3.4

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

Z:\Jobs\21-002\Moody Development Tract (8210003)\dwg_Working Dwgs\Construction Set\1.0-3.4 Erosion Control Stage 1.dwg
July 15, 2025

EROSION CONTROL LEGEND		REFERENCE DETAIL
SF	SILT FENCE	CD3
LOD	LIMITS OF DISTURBANCE	-
TF	TREE PROTECTION FENCE	CD1
TF/SF	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
	PERMANENT DIVERSION DITCH	CD1
>>	TEMPORARY DIVERSION DITCH	CD1
	SILT FENCE OUTLET	CD3
	SEDIMENT SACK INLET PROTECTION	CD2
	STANDARD PIPE INLET PROTECTION	CD2
	GRAVEL INLET PROTECTION	CD2
	GRAVEL CHECK DAM	CD1
	MAINTENANCE PAD	CD4
	RIPRAP DISSIPATOR	CD2
x x	BAFFLE	CD1
	TEMPORARY DRAINAGE PIPE	-
	WATTLE	CD5
	SKIMMER	CD3
	TEMPORARY SEDIMENT BASIN	CD3
	STAGING AND LAYDOWN AREA	CD5
	DIVERSION DIKE	CD3

SITE LEGEND	
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	PROPOSED ROW
	WETLANDS

DISTURBED AREA
SF SILT FENCE
TF TREE FENCE/LOD

TF/SF EXHIBIT

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch =100

GENERAL NOTES:

1. SEE SHEET C7.0 FOR TEMPORARY DIVERSION DITCH SCHEDULE.
2. ACCESS TO HOMES ALONG AMAZON TRAIL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

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

NORTH CAROLINA ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

PRELIMINARY - DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER 26528 JAMES P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

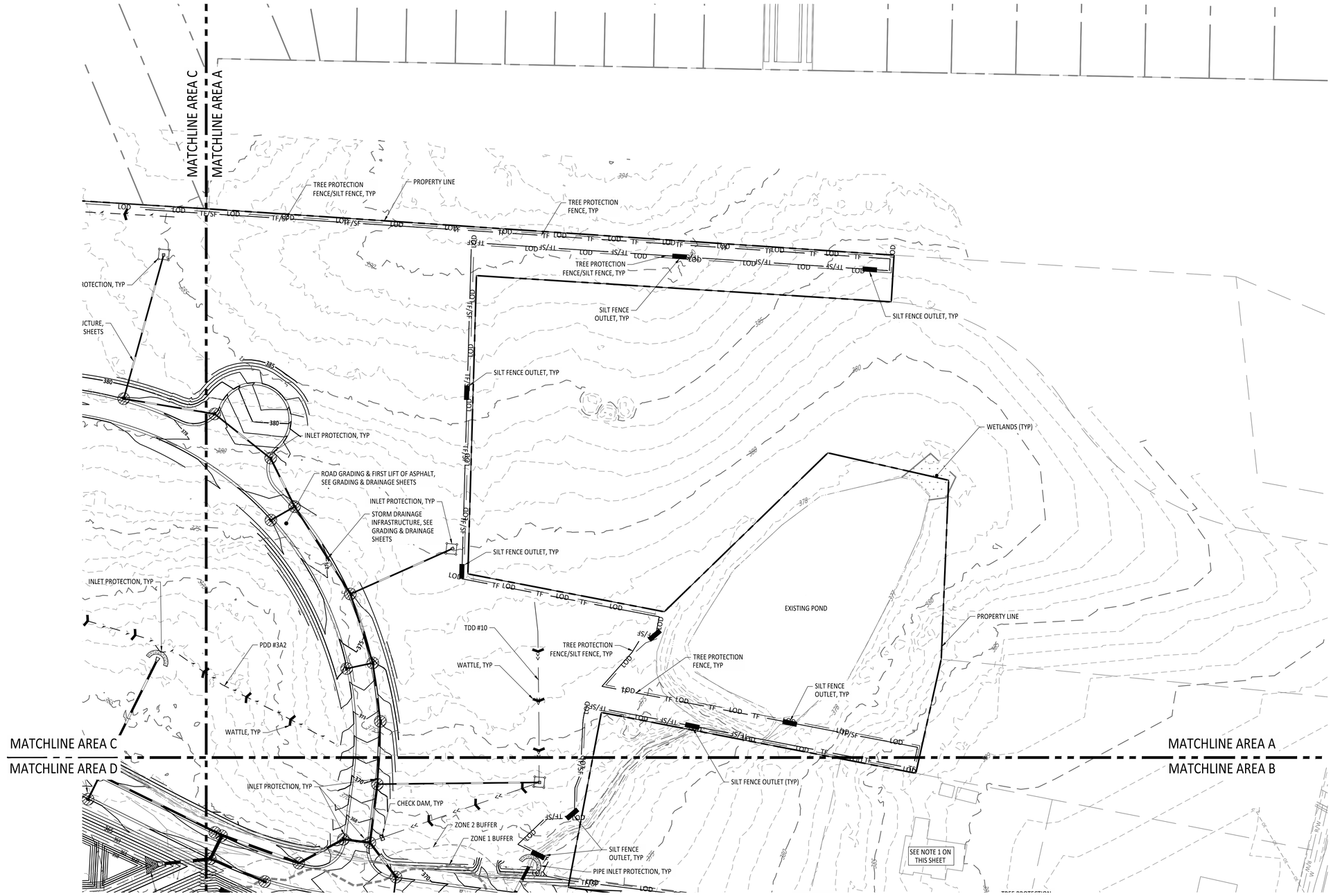
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:
OVERALL ESC STAGE 2

SHEET NO.:
C3.5

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

Z:\Jobs\21-002 Moody Development Tract (R21002)\Dwg_ Working Dwgs\Construction Set\3.5-3.9 Erosion Control Stage 2.dwg July 16, 2025



EROSION CONTROL LEGEND		REFERENCE DETAIL
SF	SILT FENCE	CD3
LOD	LIMITS OF DISTURBANCE	-
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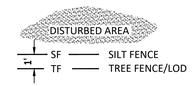
	DIVERSION DIKE	CD3

SITE LEGEND	
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	PROPOSED ROW
	WETLANDS



TF/SF EXHIBIT

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3. SEE GRADING & DRAINAGE SHEETS FOR THE CONSTRUCTION OF ALL STORMWATER INFRASTRUCTURE.
4. SEE CULVERT CROSSING SHEET FOR INSTALLATION METHOD OF PROJECT CULVERTS BENEATH ROADWAYS.
5. CONTRACTOR TO CONSTRUCT A SANDBAG DAM ACROSS THE LINEAR WETLAND AT THE UPSTREAM AND DOWNSTREAM ENDS TO ALLOW FOR PUMP AROUND. PUMPS TO BE USED AS NEEDED.
6. SEE SCHEDULE SHEETS FOR RIP RAP AND DIVERSION DITCH SCHEDULES.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

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

NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

PRELIMINARY - DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER
45528
JAKOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
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4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFF-LINE)

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:

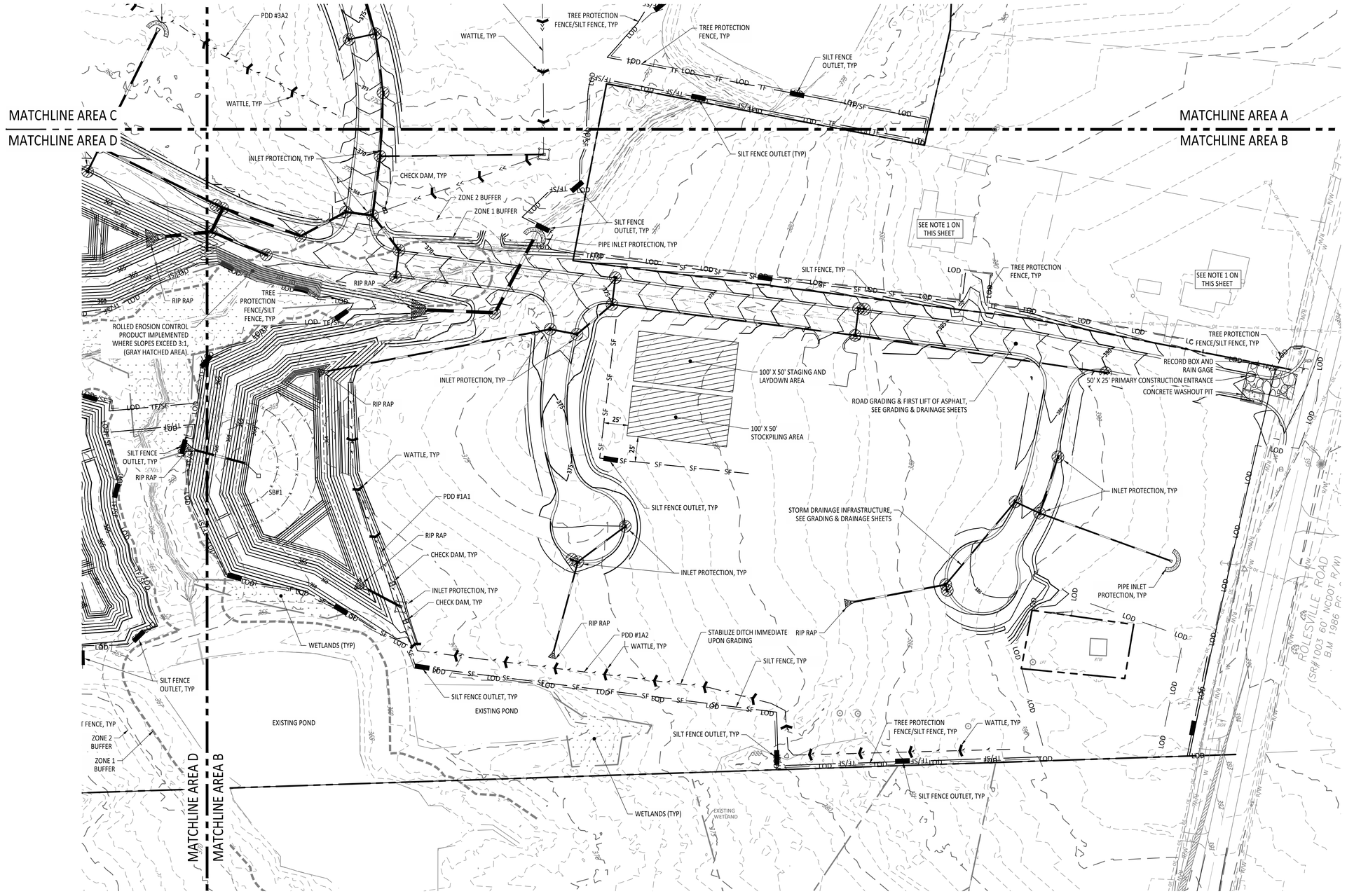
ESC STAGE 2 A

SHEET NO.:

C3.6

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

Z:\Jobs\21-002 Moody Development Tract (R2100003)\dwg_Working Dwgs\Construction Set\13-3 SHEETS\13-3 9 Erosion Control Stage 2.dwg July 16, 2025



EROSION CONTROL LEGEND		REFERENCE DETAIL
SF	SILT FENCE	CD3
LOD	LIMITS OF DISTURBANCE	-
TF	TREE PROTECTION FENCE	CD1
TF/SF	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
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	STANDARD PIPE INLET PROTECTION	CD2
	GRAVEL INLET PROTECTION	CD2
	GRAVEL CHECK DAM	CD1
	MAINTENANCE PAD	CD4
	RIPRAP DISSIPATOR	CD2
x x	BAFFLE	CD1
	TEMPORARY DRAINAGE PIPE	-
	WATTLE	CD5
	SKIMMER	CD3
	TEMPORARY SEDIMENT BASIN	CD3
	STAGING AND LAYDOWN AREA	CD5
	DIVERSION DIKE	CD3

SITE LEGEND	
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	PROPOSED ROW
	WETLANDS

DISTURBED AREA
SF SILT FENCE
TF TREE FENCE/LOD

TF/SF EXHIBIT

GENERAL NOTES:

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4. SEE CULVERT CROSSING SHEET FOR INSTALLATION METHOD OF PROJECT CULVERTS BENEATH ROADWAYS.
5. CONTRACTOR TO CONSTRUCT A SANDBAG DAM ACROSS THE LINEAR WETLAND AT THE UPSTREAM AND DOWNSTREAM ENDS TO ALLOW FOR PUMP AROUND. PUMPS TO BE USED AS NEEDED.
6. SEE SCHEDULE SHEETS FOR RIP RAP AND DIVERSION DITCH SCHEDULES.

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

AMERICAN Engineering
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4020 Westchase Boulevard, Suite 450 919-469-1101
Raleigh, NC 27607

NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

PRELIMINARY - DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL 45528 ENGINEER JAKOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
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4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

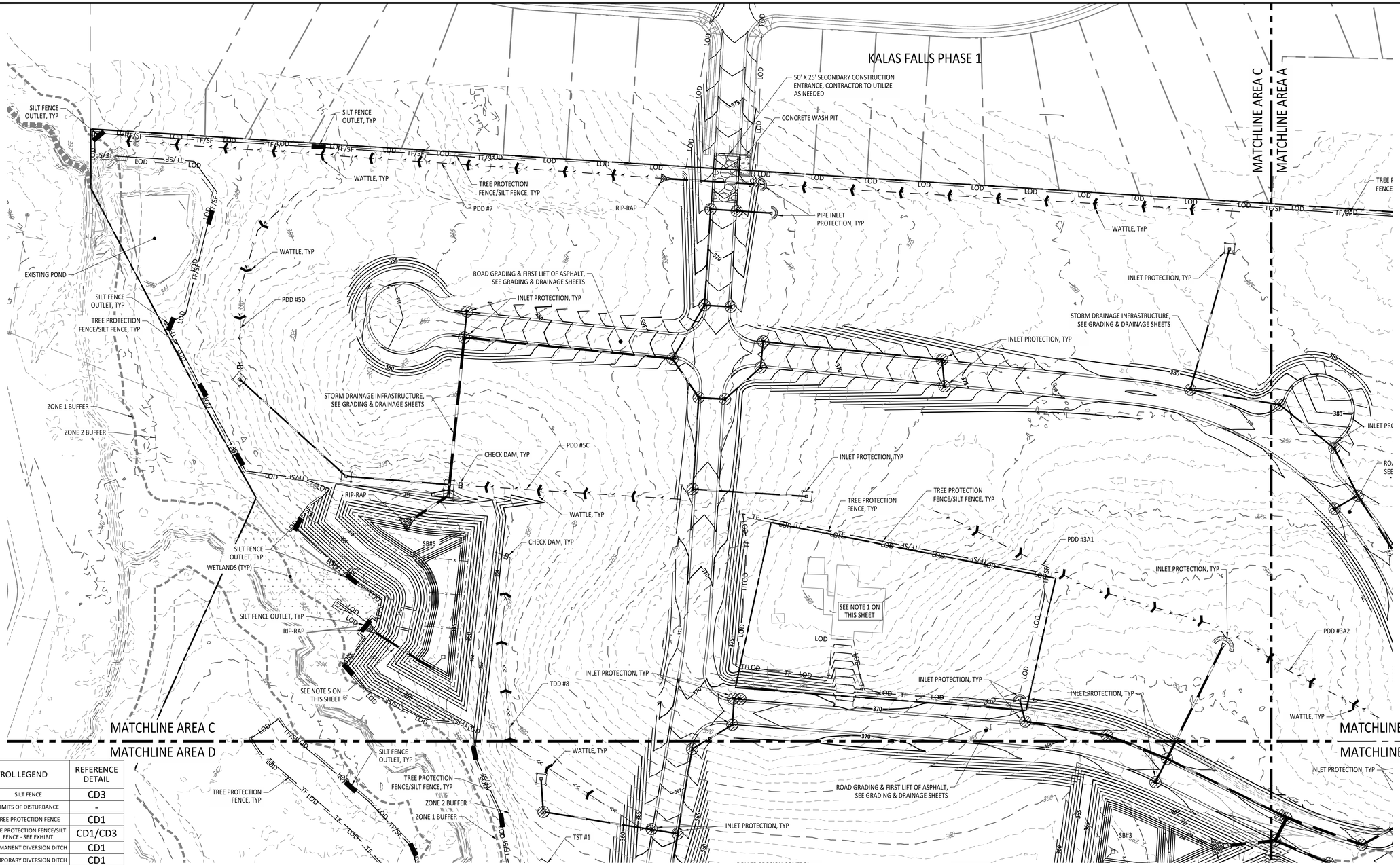
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:
ESC STAGE 2 B

SHEET NO.:
C3.7

North Carolina 811 811 it's the law
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\21-002 Moody Development Tract (B210002)\dwg_Working Dwgs\Construction Set\3.5-3.9 Erosion Control Stage 2.dwg July 16, 2025



EROSION CONTROL LEGEND		REFERENCE DETAIL
SF	SILT FENCE	CD3
LOD	LIMITS OF DISTURBANCE	-
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TF/SF	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
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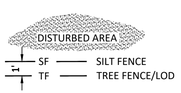
	SEDIMENT SACK INLET PROTECTION	CD2
	STANDARD PIPE INLET PROTECTION	CD2
	GRAVEL INLET PROTECTION	CD2
	GRAVEL CHECK DAM	CD1
	MAINTENANCE PAD	CD4
	RIPRAP DISSIPATOR	CD2
x x	BAFFLE	CD1
	TEMPORARY DRAINAGE PIPE	-
	WATTLE	CD5
	SKIMMER	CD3
	TEMPORARY SEDIMENT BASIN	CD3
	STAGING AND LAYDOWN AREA	CD5
	DIVERSION DIKE	CD3

SITE LEGEND	
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	PROPOSED ROW
	WETLANDS



TF/SF EXHIBIT

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

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GENERAL NOTES:

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4. SEE CULVERT CROSSING SHEET FOR INSTALLATION METHOD OF PROJECT CULVERTS BENEATH ROADWAYS.
5. CONTRACTOR TO CONSTRUCT A SANDBAG DAM ACROSS THE LINEAR WETLAND AT THE UPSTREAM AND DOWNSTREAM ENDS TO ALLOW FOR PUMP AROUND. PUMPS TO BE USED AS NEEDED.
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North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
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919-469-1101

NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL 052528 ENGINEER JAKOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER:	21-002
CHECKED BY:	JK
DRAWN BY:	RC
DATE:	07/16/2025

SHEET TITLE:

ESC STAGE 2 C

SHEET NO.:

C3.8

July 16, 2025

Z:\Jobs\21-002 Moody Development Tract II\21002\Dwg_Working Dwg\Construction Set\1-5-3 Erosion Control Stage 2.dwg

MATCHLINE AREA C

MATCHLINE AREA D

MATCHLINE AREA A

MATCHLINE AREA B

KALAS FALLS PHASE 3

SEE NOTE 1 ON THIS SHEET

SEE NOTE 5 ON THIS SHEET

SILT FENCE OUTLET, TYP

RIP-RAP

TDD #8

INLET PROTECTION, TYP

WATTLE, TYP

PDD #3A2

TREE PROTECTION FENCE, TYP

TREE PROTECTION FENCE/SILT FENCE, TYP

ZONE 2 BUFFER

ZONE 1 BUFFER

TST #1

ROAD GRADING & FIRST LIFT OF ASPHALT, SEE GRADING & DRAINAGE SHEETS

ROLLED EROSION CONTROL PRODUCT IMPLEMENTED WHERE SLOPES EXCEED 3:1, (GRAY HATCHED AREA).

WETLANDS (TYP)

RIP-RAP PAD

SB#3

SB#2

SB#1

SB#4

TDD #4B

TDD #11

STORM DRAINAGE INFRASTRUCTURE, SEE GRADING & DRAINAGE SHEETS

CHECK DAM, TYP

CONCRETE WASH PIT

50' X 25' SECONDARY CONSTRUCTION ENTRANCE, CONTRACTOR TO UTILIZE AS NEEDED

EXISTING POND

PDD #2

SILT FENCE, TYP

EROSION CONTROL LEGEND		REFERENCE DETAIL
SF	SILT FENCE	CD3
LOD	LIMITS OF DISTURBANCE	-
TF	TREE PROTECTION FENCE	CD1
TF/SF	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
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SITE LEGEND	
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
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	WETLANDS

GENERAL NOTES:

1. ACCESS TO HOMES ALONG AMAZON TRAIL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THERE IS TO BE NO CONTRACTOR PARKING, STOCKPILING, STAGING, OR BLOCKED ACCESS AT ANYTIME DURING CONSTRUCTION.
2. THE TEMPORARY SEDIMENT BASINS (TSB) ARE NOT TO BE CONVERTED TO STORMWATER CONTROL MEASURES (SCM) UNTIL PASSING INSPECTION AND GIVEN PERMISSION BY THE WAKE COUNTY INSPECTOR. SEE PROJECT CONSTRUCTION SEQUENCE.
3. SEE GRADING & DRAINAGE SHEETS FOR THE CONSTRUCTION OF ALL STORMWATER INFRASTRUCTURE.
4. SEE CULVERT CROSSING SHEET FOR INSTALLATION METHOD OF PROJECT CULVERTS BENEATH ROADWAYS.
5. CONTRACTOR TO CONSTRUCT A SANDBAG DAM ACROSS THE LINEAR WETLAND AT THE UPSTREAM AND DOWNSTREAM ENDS TO ALLOW FOR PUMP AROUND. PUMPS TO BE USED AS NEEDED.
6. SEE SCHEDULE SHEETS FOR RIP RAP AND DIVERSION DITCH SCHEDULES.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

DISTURBED AREA

SF SILT FENCE

TF TREE FENCE/LOD

TF/SF EXHIBIT

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

NORTH CAROLINA ENGINEERING CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

PRELIMINARY
- DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER
053261
JAKOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

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.

THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:

ESC STAGE 2 D

SHEET NO.:

C3.9

Z:\Jobs\21-002 Moody Development Trust (P2100029)\Dwgs_Working Dwgs\Construction Set\3.5-3.9 Erosion Control Stage 2.dwg July 16, 2025

KALAS FALLS PHASE 1

KALAS FALLS PHASE 2

KALAS FALLS PHASE 3

EXISTING POND

WETLANDS (TYP)

ZONE 1 BUFFER

ZONE 2 BUFFER

MATCHLINE AREA C
MATCHLINE AREA D

MATCHLINE AREA A
MATCHLINE AREA B

WPI#1

WPI#2

WPI#3

SEOD

30' LANDSCAPE BUFFER

PHASE 4

PHASE 5

EROSION CONTROL LEGEND		REFERENCE DETAIL
SF	SILT FENCE	CD3
LOD	LIMITS OF DISTURBANCE	-
TF	TREE PROTECTION FENCE	CD1
TF/SF	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
	PERMANENT DIVERSION DITCH	CD1
	TEMPORARY DIVERSION DITCH	CD1
	SILT FENCE OUTLET	CD3
	SEDIMENT SACK INLET PROTECTION	CD2
	STANDARD PIPE INLET PROTECTION	CD2
	GRAVEL INLET PROTECTION	CD2
	GRAVEL CHECK DAM	CD1
	MAINTENANCE PAD	CD4
	RIPRAP DISSIPATOR	CD2
x x	BAFFLE	CD1
	TEMPORARY DRAINAGE PIPE	-
	WATTLE	CD5
	SKIMMER	CD3
	TEMPORARY SEDIMENT BASIN	CD3
	STAGING AND LAYDOWN AREA	CD5
	DIVERSION DIKE	CD3

SITE LEGEND	
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	PROPOSED ROW
	WETLANDS

DISTURBED AREA
SF SILT FENCE
TF TREE FENCE/LOD

TF/SF EXHIBIT

GENERAL NOTES:

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GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1 inch =100

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 440
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

PRELIMINARY
NOT FOR CONSTRUCTION
36528
ENGINEER
JAKOB KLEIN, P.E.

NO.	DATE:	REVISION:
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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

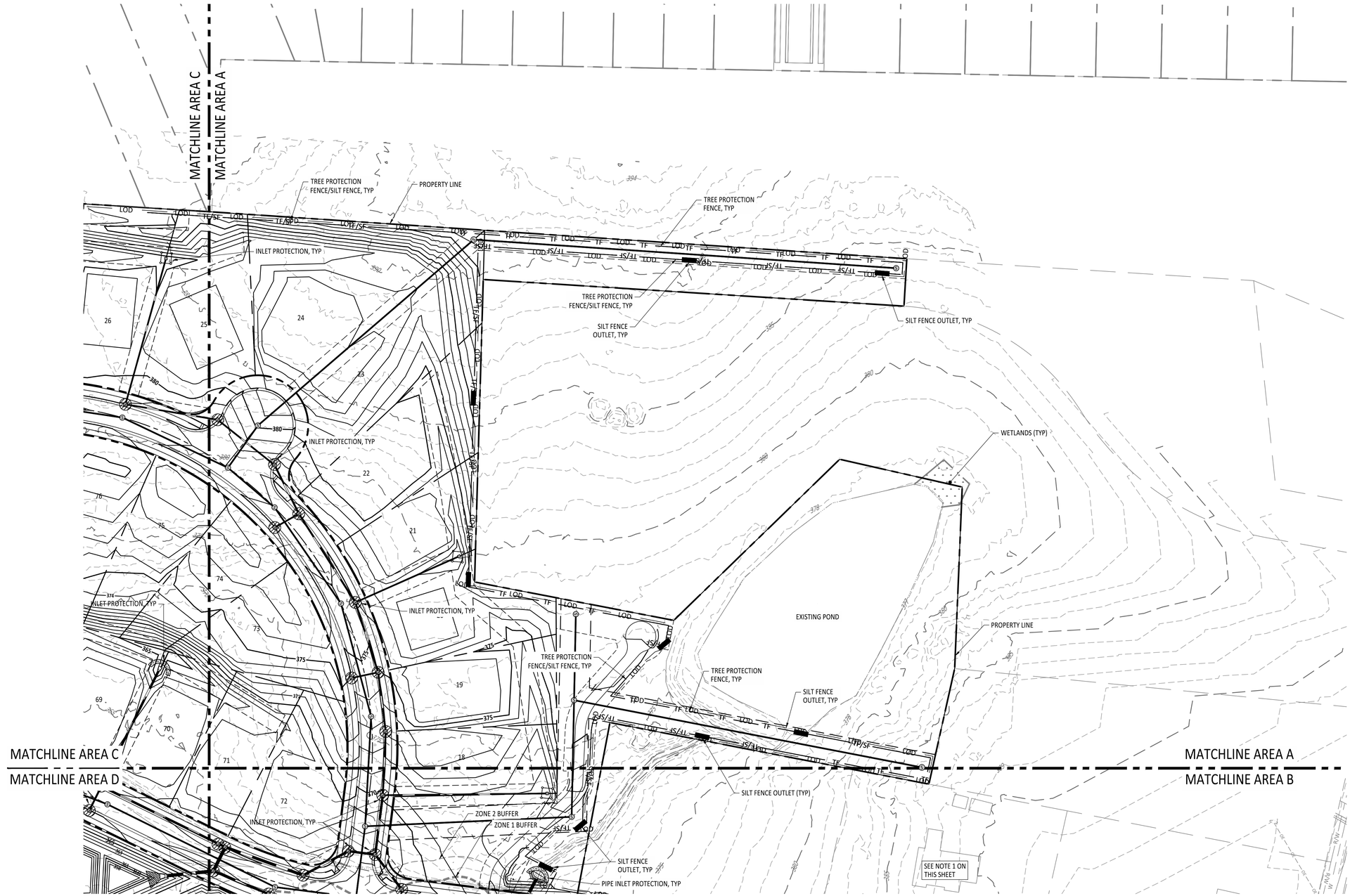
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:
OVERALL ESC STAGE 3

SHEET NO.:
C3.10

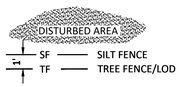
North Carolina 811 Before You Dig
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\21-002 Moody Development Trust (RZ\100\01\Engr_Working Dwgs\Construction Set\3.10 3.14 Erosion Control Stage 3.dwg July 16, 2025



EROSION CONTROL LEGEND		REFERENCE DETAIL
SF	SILT FENCE	CD3
LOD	LIMITS OF DISTURBANCE	-
TF	TREE PROTECTION FENCE	CD1
TF/SF	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
	PERMANENT DIVERSION DITCH	CD1
>>	TEMPORARY DIVERSION DITCH	CD1
	SILT FENCE OUTLET	CD3
	SEDIMENT SACK INLET PROTECTION	CD2
	STANDARD PIPE INLET PROTECTION	CD2
	GRAVEL INLET PROTECTION	CD2
	GRAVEL CHECK DAM	CD1
	MAINTENANCE PAD	CD4
	RIPRAP DISSIPATOR	CD2
x x	BAFFLE	CD1
	TEMPORARY DRAINAGE PIPE	-
	WATTLE	CD5
	SKIMMER	CD3
	TEMPORARY SEDIMENT BASIN	CD3
	STAGING AND LAYDOWN AREA	CD5
	DIVERSION DIKE	CD3

SITE LEGEND	
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	PROPOSED ROW
	WETLANDS



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4. SEE CULVERT CROSSING SHEET FOR INSTALLATION METHOD OF PROJECT CULVERTS BENEATH ROADWAYS.
5. SEE SCHEDULE SHEETS FOR RIP RAP AND DIVERSION DITCH SCHEDULES.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

AMERICAN Engineering
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4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA
PROFESSIONAL ENGINEER
26528
JAKOB P. KLEIN

PRELIMINARY
- DO NOT USE FOR CONSTRUCTION

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
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STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

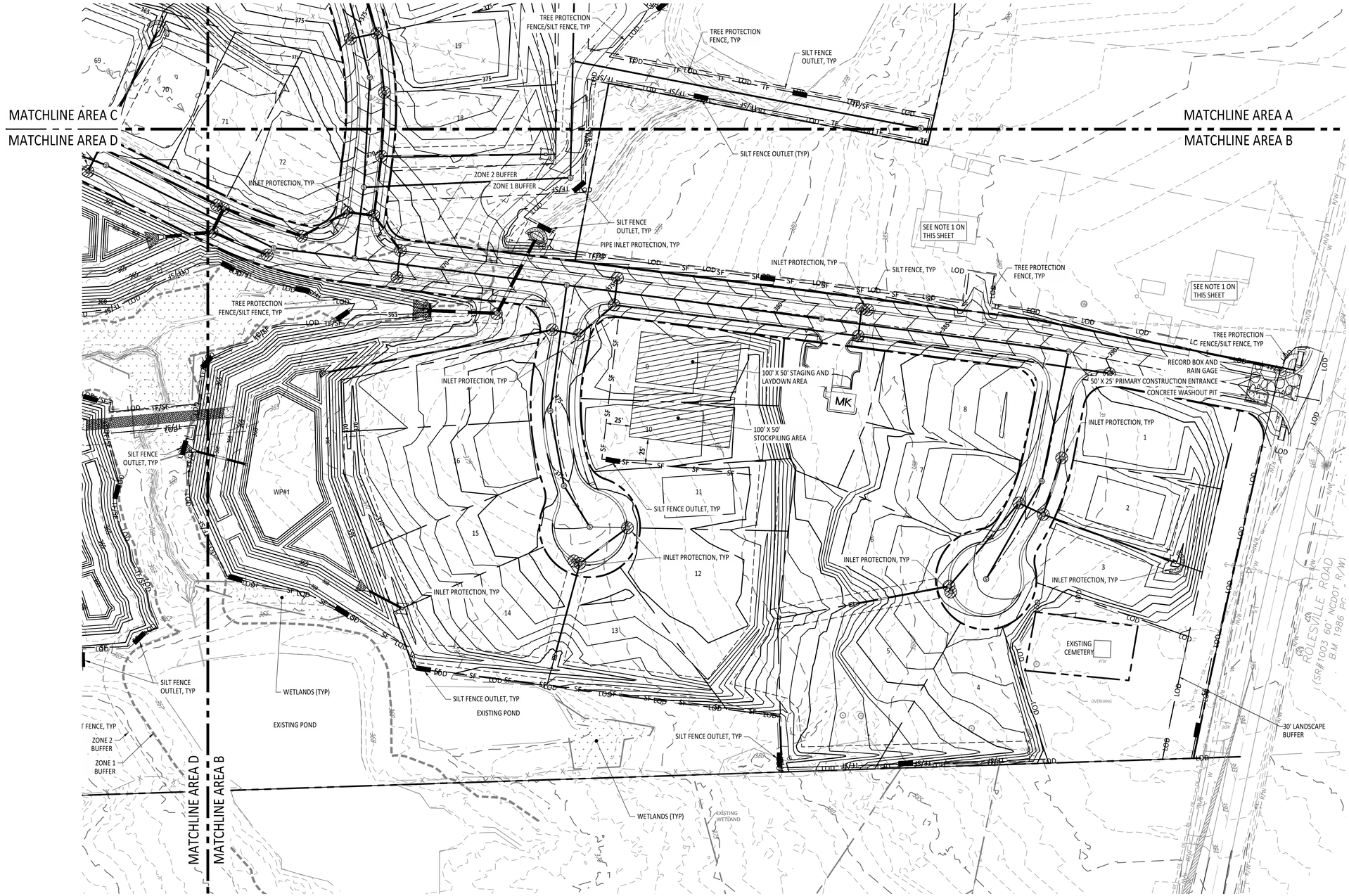
SHEET TITLE:

ESC STAGE 3 A

SHEET NO.:
C3.11

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

Z:\Jobs\21-002 Moody Development Tract (R210003)\dwg_Working Dwgs\Construction Set\3.10-3.14 Erosion Control Stage 3.dwg
July 16, 2025



EROSION CONTROL LEGEND		REFERENCE DETAIL
SF	SILT FENCE	CD3
LOD	LIMITS OF DISTURBANCE	-
TF	TREE PROTECTION FENCE	CD1
TF/SF	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
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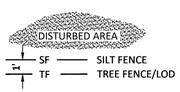
>>	TEMPORARY DIVERSION DITCH	CD1
	SILT FENCE OUTLET	CD3
	SEDIMENT SACK INLET PROTECTION	CD2
	STANDARD PIPE INLET PROTECTION	CD2
	GRAVEL INLET PROTECTION	CD2
	GRAVEL CHECK DAM	CD1
	MAINTENANCE PAD	CD4
	RIPRAP DISSIPATOR	CD2
x x	BAFFLE	CD1
	TEMPORARY DRAINAGE PIPE	-
	WATTLE	CD5
	SKIMMER	CD3
	TEMPORARY SEDIMENT BASIN	CD3
	STAGING AND LAYDOWN AREA	CD5
	DIVERSION DIKE	CD3

SITE LEGEND	
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	PROPOSED ROW
	WETLANDS



TF/SF EXHIBIT

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5. SEE SCHEDULE SHEETS FOR RIP RAP AND DIVERSION DITCH SCHEDULES.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

AMERICAN Engineering
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4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA ENGINEERING CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

PRELIMINARY
- DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER
052626
JAKOB P. KLEIN

NO.	DATE:	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:
ESC STAGE 3 B

SHEET NO.:
C3.12

North Carolina 811 Know what's below. Call before you dig.
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

21x0021 002 Moody Development Tract (R)\0000\0\dwg_Working Dwgs\Construction\SHEETS\03-3.14 Erosion Control Stage 3.dwg July 16, 2025

EROSION CONTROL LEGEND		REFERENCE DETAIL
SF	SILT FENCE	CD3
LOD	LIMITS OF DISTURBANCE	-
TF	TREE PROTECTION FENCE	CD1
TF/SF	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
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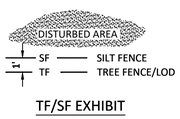
	STANDARD PIPE INLET PROTECTION	CD2
	GRAVEL INLET PROTECTION	CD2
	GRAVEL CHECK DAM	CD1
	MAINTENANCE PAD	CD4
	RIPRAP DISSIPATOR	CD2
x x	BAFFLE	CD1
	TEMPORARY DRAINAGE PIPE	-
	WATTLE	CD5
	SKIMMER	CD3
	TEMPORARY SEDIMENT BASIN	CD3
	STAGING AND LAYDOWN AREA	CD5
	DIVERSION DIKE	CD3

SITE LEGEND	
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	PROPOSED ROW
	WETLANDS



TF/SF EXHIBIT

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

GENERAL NOTES:

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5. SEE SCHEDULE SHEETS FOR RIP RAP AND DIVERSION DITCH SCHEDULES.

North Carolina 811
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Raleigh, NC 27607
919-469-1101

NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER 052578 JACOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

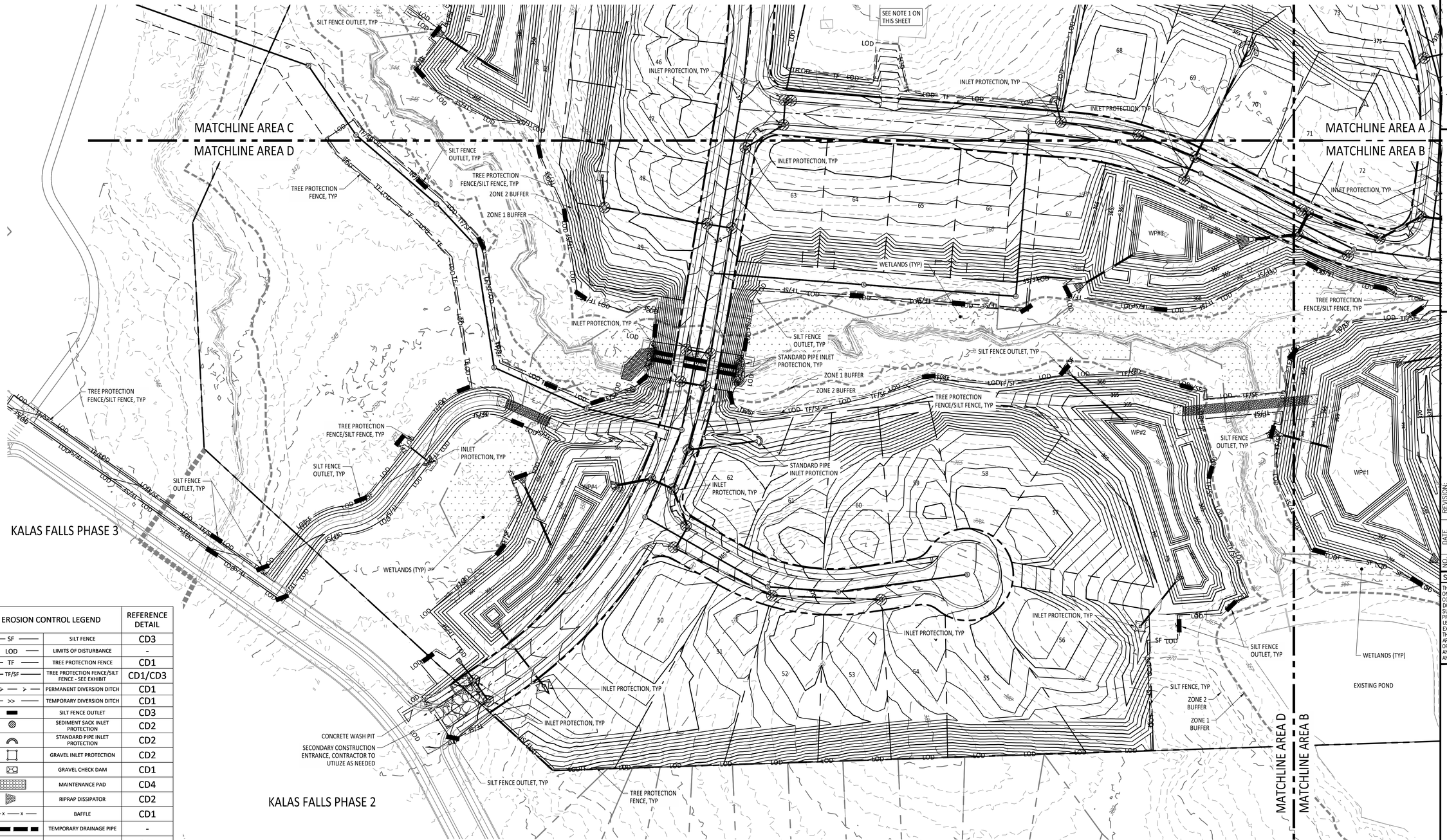
SHEET TITLE:

ESC STAGE 3 C

SHEET NO.:

C3.13

23\jobs\21-002 Moody Development Tract (R)\000\Dwg_Working Dwgs\Construction\sht\C3.10-3.14 Erosion Control Stage 3.dwg July 16, 2025



EROSION CONTROL LEGEND		REFERENCE DETAIL
SF	SILT FENCE	CD3
LOD	LIMITS OF DISTURBANCE	-
TF	TREE PROTECTION FENCE	CD1
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SITE LEGEND	
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	PROPOSED ROW
	WETLANDS

TF/SF EXHIBIT

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

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919-469-1101

NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

PRELIMINARY
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER 052576 JAKOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:

ESC STAGE 3 D

SHEET NO.:

C3.14

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

Stabilization Area	Site Area Description	Required Ground Stabilization Timeframes: Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
1	(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
	(b) High Quality Water (HQW) Zones	7	None
	(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
2	(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
3	(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

NDPES DOCUMENTATION NOTES

1. THIS PAGE IS SUBMITTED TO COMPLY WITH THE NPDES GENERAL STORMWATER PERMIT NCG010000.
2. THIS PAGE CAN BE APPROVED BY THE TOWN PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000 ONLY.
3. THIS PAGE OF THE APPROVED PLANS IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000.
4. THE TOWN IS NOT AUTHORIZED TO ENFORCE THIS PAGE OF THE PLANS AND IT IS NOT A PART OF THE APPROVED PLANS FOR PURPOSES OF ENFORCEMENT ACTION UNDER THE CITY CODE.

NPDES STABILIZATION LEGEND

	NPDES STABILIZATION AREA 1
	NPDES STABILIZATION AREA 2
	NPDES STABILIZATION AREA 3

SEEDING SCHEDULE

SHOULDERS, SIDE DITCHES, SLOPES (Maximum 3:1)

Date	Type*	Planting Rate
Aug 15 - Nov 1	Tall Fescue or Hard Fescue	300 lb./acre
Nov 1 - Mar 1	Tall Fescue and Abriuzzi Rye or Annual Rye	300 lb./acre
Mar 1 - Apr 15	Tall Fescue or Hard Fescue	300 lb./acre
Apr 15 - June 30	Hulled common Bermuda grass, Weeping Love Grass	25 lb./acre
July 15 - Aug 15	Tall Fescue and ***Browntop Millet ***or Sorghum-Sudan Hybrids	35 lb./acre

SHOULDERS, SIDE DITCHES, SLOPES Slopes (3:1 and 2:1) (not mowed)

Date	Type*	Planting Rate
Mar 1 - Apr 15	Add Tall Fescue or	120 lb./acre
Mar 1 - June 30	Add Weeping Love Grass or	10 lb./acre
Mar 1 - June 30	Add Hulled Common Bermuda grass	25 lb./acre
June 1 - Sept 1	***Tall Fescue and ***Browntop Millet ***or Sorghum-Sudan Hybrids	120 lb./acre 35 lb./acre 30 lb./acre
Sept 1 - Mar 1	Tall Fescue Add Abruzzi Rye or Annual Rye	120 lb./acre 25 lb./acre

NOTES:
Consult Erosion Control Officer or NRCS for additional alternatives for vegetating denuded areas. The above vegetation rates are those which do well under local conditions; other seeding rate combinations are possible.
***Temporary - Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow over 12 inches in height before mowing to keep fescue from being shaded out.
*Bahia grass shall not be used in City maintained areas.

SEEDBED PREPARATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO 6-INCH DEPTH.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW *).
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
6. SEED ON FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DAMAGED, RE-ESTABLISHED FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

*APPLY: AGRICULTURAL LIMESTONE - 2 TONS/ACRE (3 TONS/ACRE IN CLAY SOILS)
FERTILIZER - 1,000 LB/ACRE - 10-10-10
SUPERPHOSPHATE - 500 LB/ACRE - 20% ANALYSIS
MULCH - 2 TONS/ACRE - SMALL GRAIN STRAW
ANCHOR - ASPHALT EMULSION @ 300 GALS/ACRE

GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1 inch =100

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4700 Homewood Court Boulevard, Suite 401
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA ENGINEERING CERTIFICATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

PRELIMINARY - NOT FOR CONSTRUCTION
NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
36528
JAKOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

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.

THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

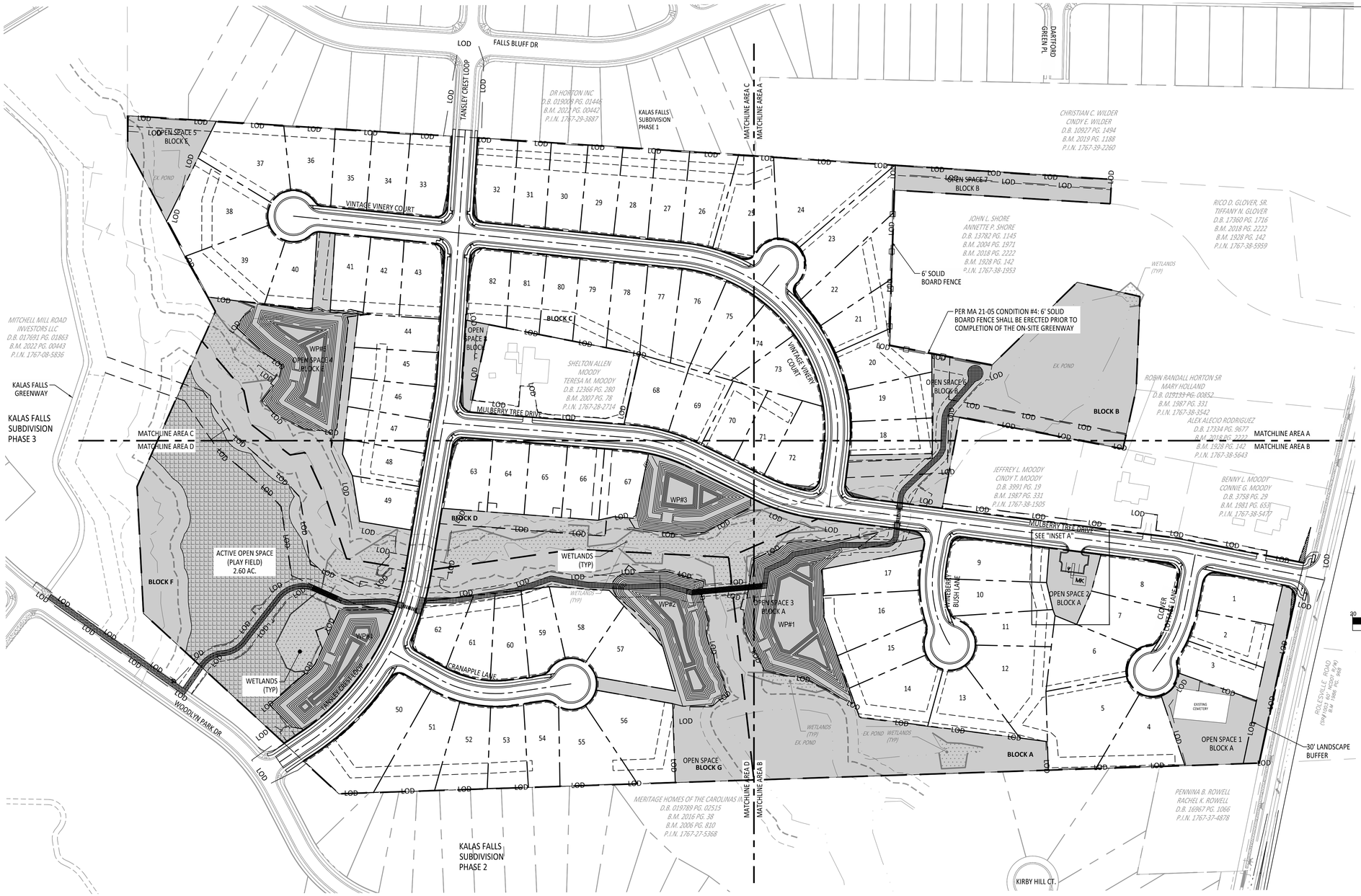
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:
NPDES PLAN

SHEET NO.:
C3.15

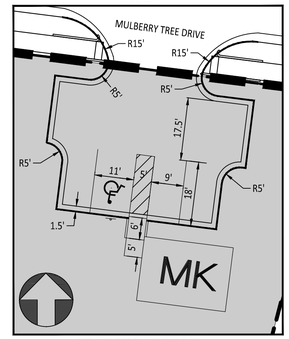
North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\21-002 Moody Development Tract (8210000)\Dwgs_Working Dwgs\Construction Set\3.15 NPDES.dwg
July 15, 2025



SITE LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
MK	MAIL KIOSK
	LOT LINES
	SETBACK
	PROPOSED ROW
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED BACK OF CURB
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	TOP OF CREEK
	PROPOSED SCM
	PROPOSED FENCE
	SIGHT TRIANGLE

INSET A



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20

OPEN SPACE AREA	
OPEN SPACE ID	AREA
OPEN SPACE 1	27,618.61 SQ.FT / 0.63 AC
OPEN SPACE 2	10,948.31 SQ.FT / 0.25 AC
OPEN SPACE 3	307,966.02 SQ.FT / 7.07 AC
OPEN SPACE 4	308,915.69 SQ.FT / 7.09 AC
OPEN SPACE 5	19,503.67 SQ.FT / 0.45 AC
OPEN SPACE 6	103,461.21 / 2.38 AC.
OPEN SPACE 7	20,167.06 SQ.FT / 0.46 AC
OPEN SPACE 8	5,374.43 SQ.FT / 0.12 AC

NOTES:

1. SEWER ACCESS FROM ADJACENT DEVELOPMENT TO BE DETERMINED UPON FINAL LAYOUT.
2. STANDARD CROSSWALKS ARE TO BE 8' WHITE. W11-2 WITH W16-7P SIGNS WITH FLUORESCENT YELLOW-GREEN SHEETING. SEE 2.3 FOR HI-VISIBILITY CROSSWALK DETAIL.
3. GREENWAY TRAIL IS TO BE DESIGNED USING ASPHALT.

AMERICAN Engineering
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Raleigh, NC 27607
919-469-1101

NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

PRELIMINARY
- DO NOT USE FOR CONSTRUCTION -
NORTH CAROLINA PROFESSIONAL ENGINEER
26528
JAKOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:

OVERALL SITE PLAN

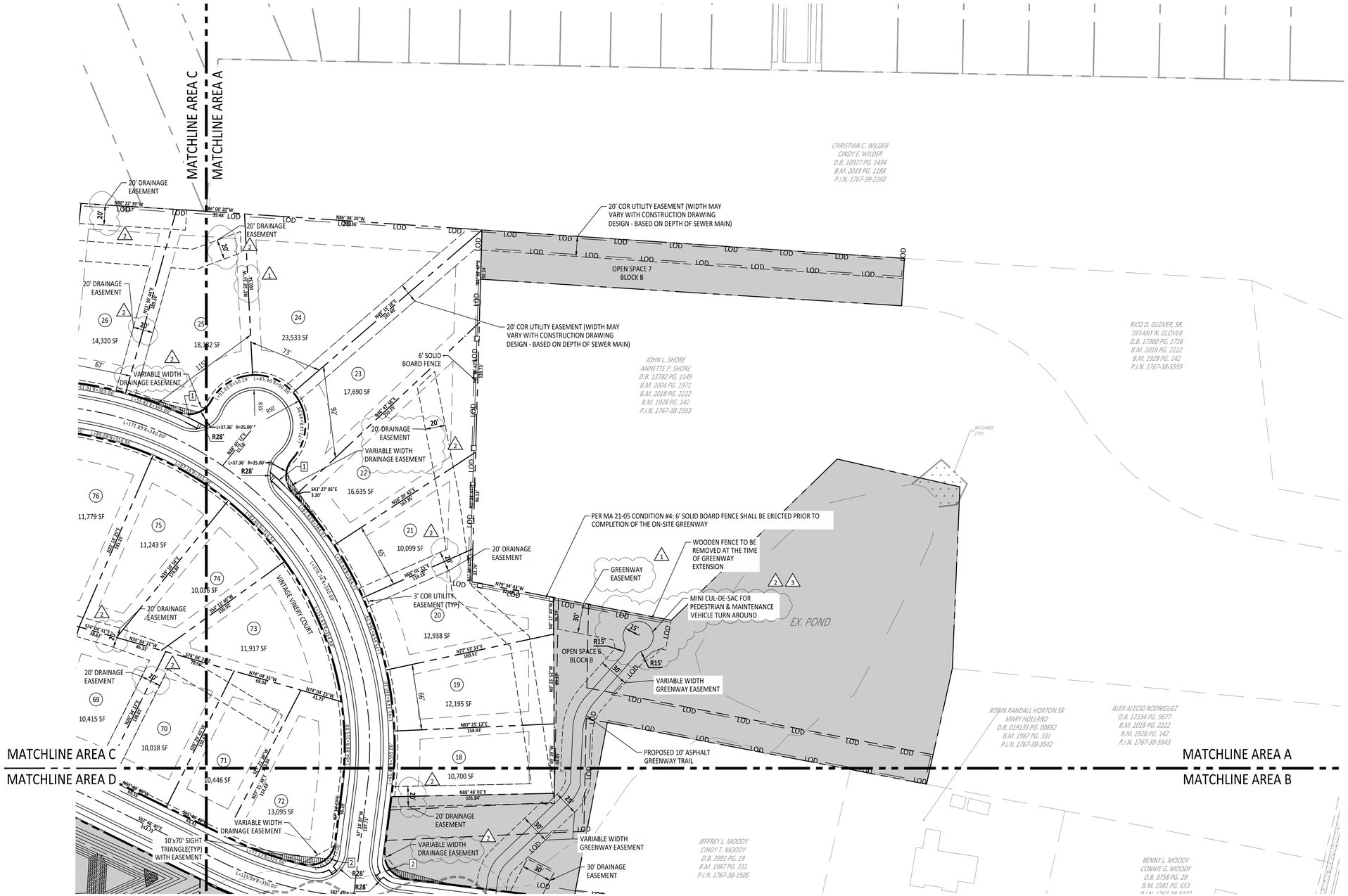
SHEET NO.:

C4.0

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

July 15, 2025

Z:\Jobs\21-002 Moody Development Tract (9210002)\dwg_Working Dwgs\Construction Set\4.0-4.6 Site Plan.dwg



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

LOT INFORMATION	
	SETBACK LINES
MIN LOT WIDTH	65'
FRONT SETBACK	25'
FRONT SETBACK	25'
SIDE SETBACK	10'
CORNER SETBACK	25'

* SEE LOT 1 FOR TYPICAL SETBACK DIMENSION

NOTE:
TA 20-01 WAS ADAPTED 9-15-20, PERMITTING THE " DWELLING- SINGLE FAMILY DETACHED" USE IN THE R-3 DISTRICT, AND ESTABLISHED: MINIMUM LOT AREA OF 10,000 SF; MINIMUM LOT WIDTH 65'; FRONT YARD SETBACK OF 25'; SIDE YARD SETBACK OF 10'; CORNER YARD SETBACK OF 25'; REAR YARD SETBACK OF 25'

KEYNOTE LEGEND:

1. CURB RAMP TYPE 1 MODIFIED
2. CURB RAMP TYPE 3 MODIFIED INSTALLATION IN A RADIUS
3. CURB RAMP TYPE 5A
4. CURB RAMP TYPE 3

SITE LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
MK	MAIL KIOSK
	LOT LINES
	SETBACK
	PROPOSED ROW
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED BACK OF CURB
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	TOP OF CREEK
	PROPOSED SCM
	PROPOSED FENCE
	SIGHT TRIANGLE

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

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Raleigh, NC 27607
919-469-1101

NORTH CAROLINA
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA
PROFESSIONAL ENGINEER
053528
JAMES P. KLEIN

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
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4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFF-LINE)

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:

SITE PLAN A

SHEET NO.:

C4.1

Z:\Jobs\21-002 Moody Development Tract (R21002)\dwg_ Working Dwgs\Construction Set\4.0-4.6 Site Plan.dwg
July 15, 2025

MATCHLINE AREA C
MATCHLINE AREA D

MATCHLINE AREA A
MATCHLINE AREA B

NOTE: OFFSITE IMPROVEMENTS SHOWN ARE CURRENTLY UNDER CONSTRUCTION AND NCDOT APPROVED ON JUNE 5th AS A PART OF E051-092-24-00303. THE PRESERVE AT MOODY FARM NCDOT IMPROVEMENTS ONLY INCLUDE AN UPDATED DRIVEWAY (IN SAME LOCATION AS EXISTING) AND A WATER CONNECTION.

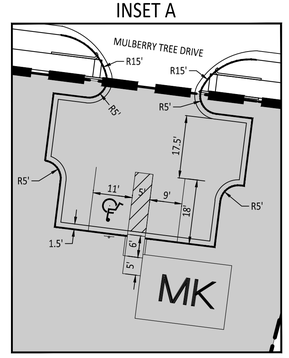
KEYNOTE LEGEND:

1. CURB RAMP TYPE 1 MODIFIED
2. CURB RAMP TYPE 3 MODIFIED INSTALLATION IN A RADIUS
3. CURB RAMP TYPE 5A
4. CURB RAMP TYPE 3

SITE LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
MK	MAIL KIOSK
	LOT LINES
	SETBACK
	PROPOSED ROW
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED BACK OF CURB
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	TOP OF CREEK
	PROPOSED SCM
	PROPOSED FENCE
	SIGHT TRIANGLE

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

INSET A



GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20

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

NORTH CAROLINA
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

PRELIMINARY
NOT FOR CONSTRUCTION
PROFESSIONAL ENGINEER
JAROD P. KLEIN
052528

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:

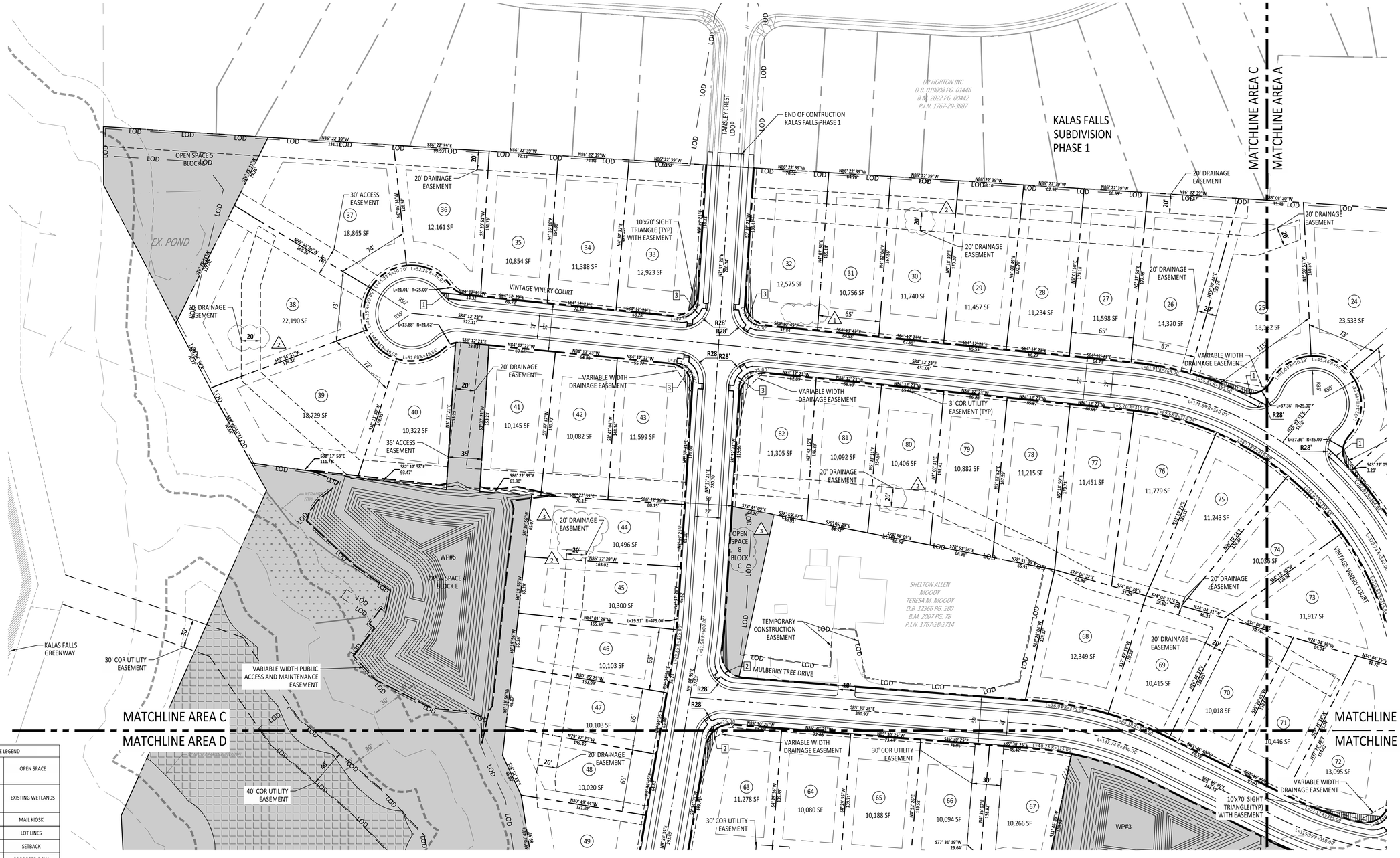
SITE PLAN B

SHEET NO.:

C4.2

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

July 15, 2025
Z:\Jobs\21-002 Moody Development Trust (R210002)\dwg_Working Dwgs\Construction Set\4.0-4.6 Site Plan.dwg



SITE LEGEND

	OPEN SPACE
	EXISTING WETLANDS
MK	MAIL KIOSK
	LOT LINES
	SETBACK
	PROPOSED ROW
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED BACK OF CURB
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	TOP OF CREEK
	PROPOSED SCM
	PROPOSED FENCE
	SIGHT TRIANGLE

KEYNOTE LEGEND:

1. CURB RAMP TYPE 1 MODIFIED
2. CURB RAMP TYPE 3 MODIFIED INSTALLATION IN A RADIUS
3. CURB RAMP TYPE 5A
4. CURB RAMP TYPE 3

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

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

NORTH CAROLINA ENGINEERING CORPORATION CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

PRELIMINARY
NOT FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 25526
JAROD P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

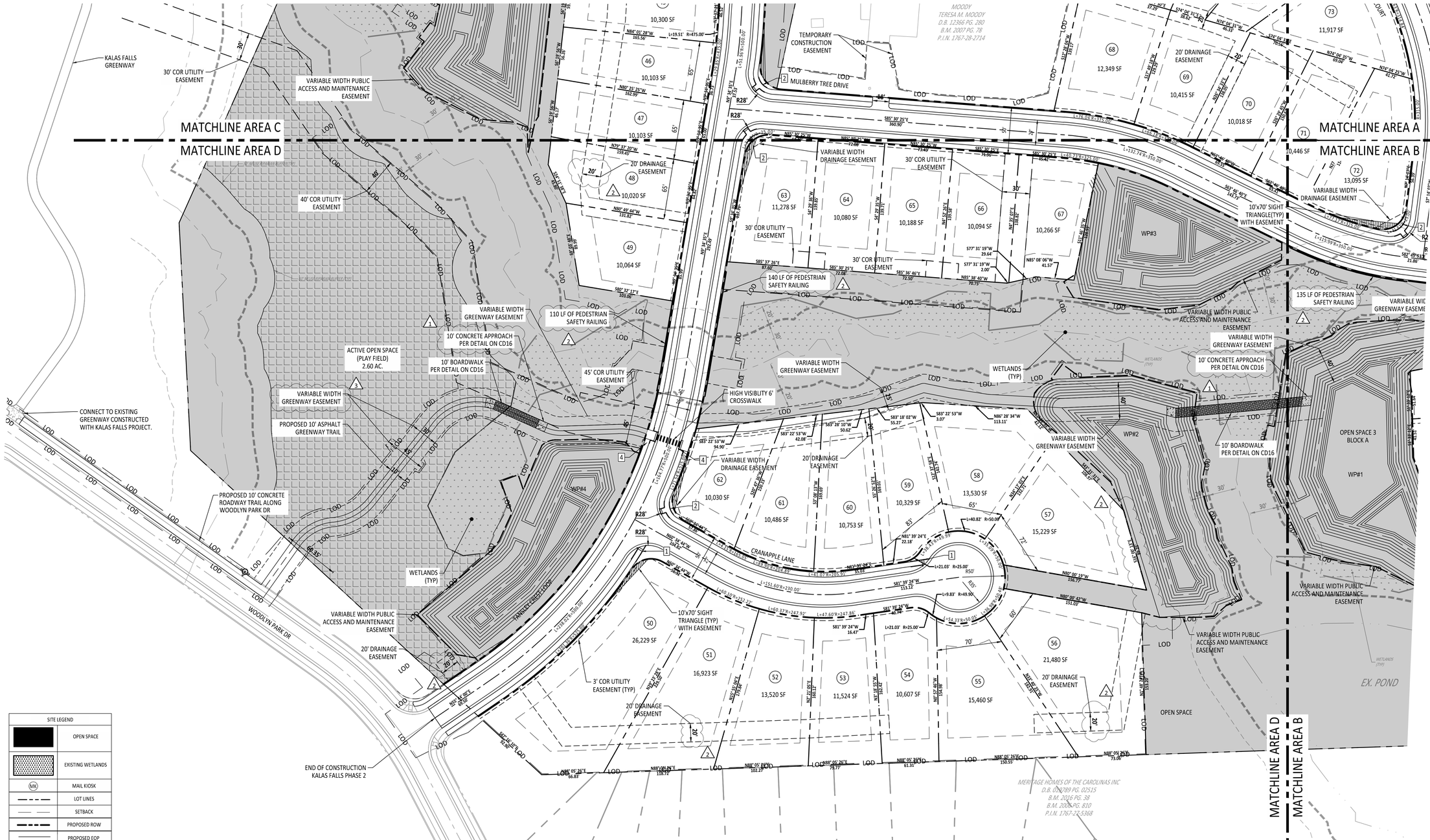
SHEET TITLE:

SITE PLAN C

SHEET NO.:
C4.3

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

J:\Job\21-002 Moody Development Tract (RZ100070)\Engr_Working Dwgs\Construction Set\4.0 4.6 Site Plan.dwg
July 15, 2025



SITE LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
MK	MAIL KIOSK
	LOT LINES
	SETBACK
	PROPOSED ROW
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED BACK OF CURB
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	TOP OF CREEK
	PROPOSED SCM
	PROPOSED FENCE
	SIGHT TRIANGLE

KEYNOTE LEGEND:

1. CURB RAMP TYPE 1 MODIFIED
2. CURB RAMP TYPE 3 MODIFIED INSTALLATION IN A RADIUS
3. CURB RAMP TYPE 5A
4. CURB RAMP TYPE 3

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

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Raleigh, NC 27607
919-469-1101

NORTH CAROLINA ENGINEERING CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881

PRELIMINARY
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 052258 JAKOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:

SITE PLAN D

SHEET NO.:

C4.4

North Carolina 811 811 It's the Law
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

July 15, 2025

Z:\Jobs\21-002 Moody Development Tract (NJ13003)\Revit_Working Dwgs\Construction Set\C4.0-4.6 Site Plan.dwg

PHASE 1	LOT SQ.FT	BLOCK IDENTIFICATION
18	10,700	E
19	12,195	E
20	12,938	E
21	10,099	E
22	16,635	E
23	17,690	E
24	23,533	E
25	18,182	E
26	14,320	E
27	11,598	E
28	11,234	E
29	11,457	E
30	11,740	E
31	10,642	E
32	12,680	E
33	12,923	F
34	11,388	F
35	10,854	F
36	12,161	F
37	18,865	F
38	22,190	F
39	18,729	F
40	10,322	F
41	10,145	F
42	10,082	F
43	11,599	F

PHASE 1	LOT SQ.FT	BLOCK IDENTIFICATION
68	12,349	D
69	10,415	D
70	10,018	D
71	10,446	D
72	13,095	D
73	11,917	D
74	10,036	D
75	11,243	D
76	11,779	D
77	11,451	D
78	11,215	D
79	10,882	D
80	10,406	D
81	10,092	D
82	11,305	D

PHASE 2	LOT SQ.FT	BLOCK IDENTIFICATION
1	11,961	A
2	11,108	A
3	10,585	A
4	14,891	A
5	23,343	A
6	15,940	A
7	12,685	A
8	12,706	A
9	14,622	A
10	12,514	A
11	10,724	A
12	20,725	A
13	13,467	A
14	15,990	A
15	11,409	A
16	16,539	A
17	12,179	A
44	10,496	F
45	10,300	F
46	10,103	F
47	10,103	F
48	10,020	F
49	10,064	F
50	26,229	B
51	16,923	B
52	13,520	B

PHASE 2	LOT SQ.FT	BLOCK IDENTIFICATION
53	11,524	B
54	10,607	B
55	15,460	B
56	21,480	B
57	15,229	B
58	13,530	B
59	10,329	B
60	10,753	B
61	10,486	B
62	10,030	B
63	11,278	C
64	10,080	C
65	10,188	C
66	10,094	C
67	10,266	C

TOTAL NUMBER OF LOTS

PHASE 1 - 41 LOTS
PHASE 1 -12,721 SF AVERAGE LOT SIZE

PHASE 2 - 41 LOTS
PHASE 2 - 13,182 SF AVERAGE LOT SIZE

SITE LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
MK	MAIL KIOSK
	LOT LINES
	SETBACK
	PROPOSED ROW
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED BACK OF CURB
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	TOP OF CREEK
	PROPOSED SCM
	PROPOSED FENCE
	SIGHT TRIANGLE

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch =100

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

NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 26528 JAKOB P. KLEIN

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

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.

THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:

PHASING PLAN

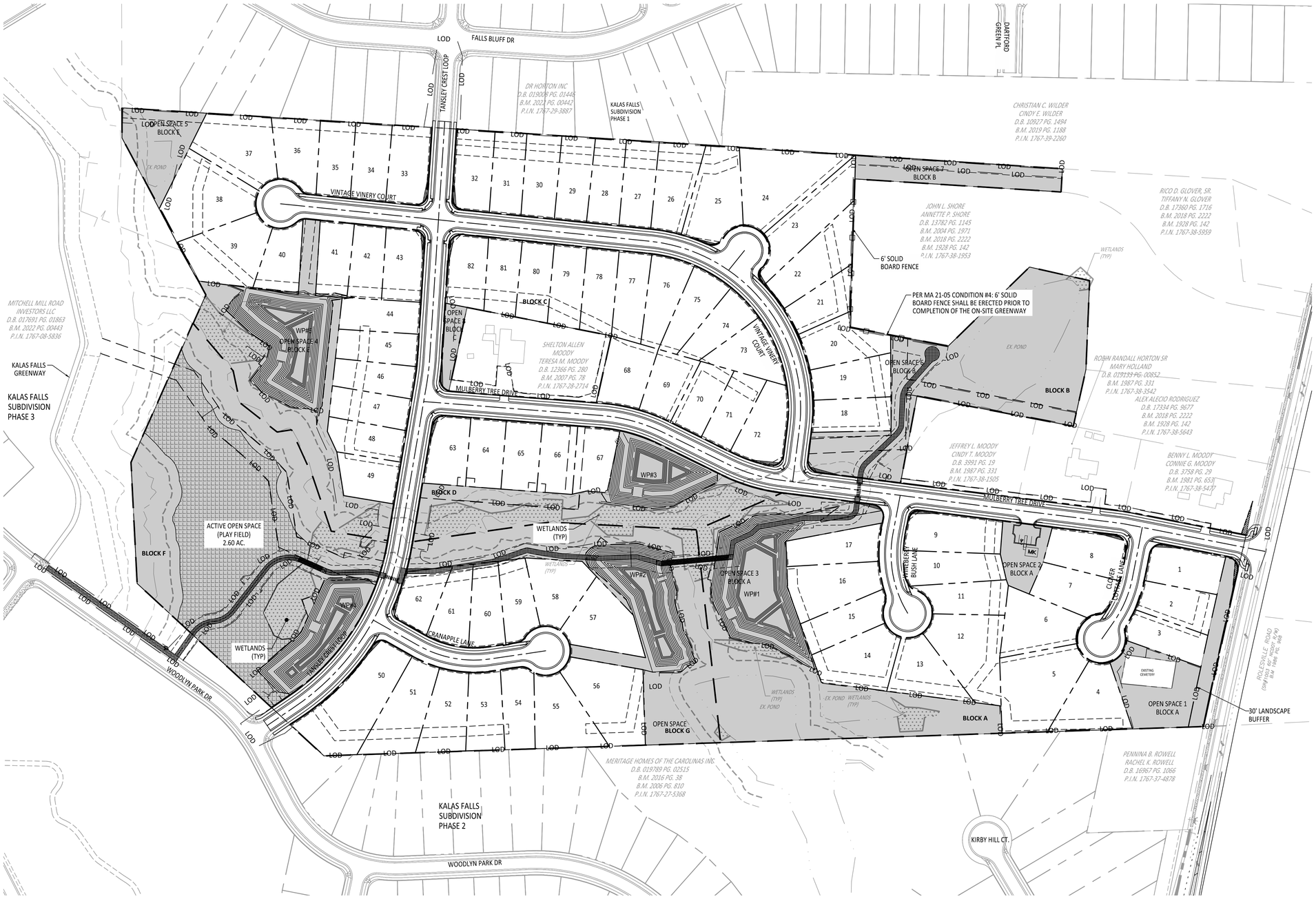
SHEET NO.:

C4.5

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

July 15, 2025

Z:\Jobs\21-002 Moody, Development Tract (#21000)\Dwgs_Working Dwgs\Construction Set\4.0-4.6 Site Plan.dwg



GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)

1 inch =100

SITE LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
	GOVERNMENTAL USE
	ACTIVE OPEN SPACE
MK	MAIL KIOSK

SITE INFORMATION	
TOTAL PROJECT ACREAGE	48.28 AC
GOVERNMENTAL USE	0.48 AC
AREA IN LOTS	24.69 AC
AREA IN ROW	6.54 AC
OPEN SPACE REQ.	10% / 5 AC.
OPEN SPACE PROVIDED	37% / 18.81 AC
ACTIVE REQUIRED	2.5 AC (50% OF 5 AC)
ACTIVE SHOWN	2.7 AC

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NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
26528
JAKOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

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.

THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:
OPEN SPACE AND LAND USE PLAN

SHEET NO.:
C4.6

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

Z:\Jobs\21-002 Moody Development Tract (#210002)\Dwgs_Working Dwgs\Construction Set\4.0-4.4.5 Site Plan.dwg
July 15, 2025

SITE LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
MK	MAIL KIOSK
	LOT LINES
	SETBACK
	PROPOSED ROW
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED BACK OF CURB
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	TOP OF CREEK
	PROPOSED SCM
	PROPOSED FENCE
	SIGHT TRIANGLE

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch =100

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Raleigh, NC 27607
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AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

PRELIMINARY
- DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER
052621
JAKOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:
OVERALL DRAINAGE PLAN

SHEET NO.:
C5.0

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

Z:\Jobs\21-002 Moody Development Tract (8210005)\Final_Working Dwgs\Construction Set\C5-5.1 Drainage and Grading Plan.dwg July 15, 2025

MATCHLINE AREA C

MATCHLINE AREA D

MATCHLINE AREA A

MATCHLINE AREA B

CHRISTIAN C. WILDER
CINDY E. WILDER
D.B. 10827 PG. 1494
B.M. 2019 PG. 1188
P.I.N. 1762-39-2260

RICO D. GLOVER, SR.
TIFFANY N. GLOVER
D.B. 17360 PG. 1716
B.M. 2018 PG. 2222
B.M. 1928 PG. 142
P.I.N. 1767-38-5959

JOHN L. SHORE
ANNETTE P. SHORE
D.B. 1392 PG. 1145
B.M. 2004 PG. 1971
B.M. 2018 PG. 2222
B.M. 1928 PG. 142
P.I.N. 1767-38-1953

ROBIN RANDALL HORTON SR
MARY HOLLAND
D.B.015132 PG. 00852
B.M. 1987 PG. 331
P.I.N. 1767-38-3542

ALEX ALECIO RODRIGUEZ
D.B. 17334 PG. 3677
B.M. 2018 PG. 2222
B.M. 1928 PG. 142
P.I.N. 1767-38-5643

JEFFREY L. MOODY
CINDY T. MOODY
D.B. 3991 PG. 19
B.M. 1987 PG. 331
P.I.N. 1767-38-1305

BENNY L. MOODY
CONNIE G. MOODY
D.B. 3258 PG. 29
B.M. 1981 PG. 653

OPEN SPACE 7
BLOCK B

OPEN SPACE 6
LOCK B

3' COR UTILITY EASEMENT (TYP.)

PDD #3D
PDD #3C
PDD #3B
PDD #3A

VI 325A
VI 316B
VI 310

CB 325
CB 321
CB 319
CB 317
CB 318
CB 315
CB 313
CB 312
CB 311
CB 309
CB 308
CB 306
CB 307
CB 304
CB 302
CB 302B
CB 330
CB 301

MH 2307
MH 2308
MH 2305
MH 2304
MH 2303
MH 2302
MH 2301
MH 2300
MH 2204
MH 2202
MH 2203
MH 2201
MH 2200
MH 2096
MH 2094
MH 2093

FES 331
FES 300
HW FES 603

PAD EL. 381.00
PAD EL. 382.00
PAD EL. 384.75
EST. FFE 385.30
PAD EL. 380.95
EST. FFE 381.05
EST. FFE 380.25
PAD EL. 379.40
EST. FFE 379.10
EST. FFE 378.15
PAD EL. 378.00
PAD EL. 376.75
PAD EL. 369.44
PAD EL. 368.60
PAD EL. 368.39
PAD EL. 369.23
EST. FFE 375.35

LOD

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

SITE LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
MK	MAIL KIOSK
	LOT LINES
	SETBACK
	PROPOSED ROW
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED BACK OF CURB
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	TOP OF CREEK
	PROPOSED SCM
	PROPOSED FENCE
	SIGHT TRIANGLE

GRADING & DRAINAGE NOTES:

1. PDD ABBREVIATES PERMANENT DIVERSION DITCH.
2. THIS GRADING PLAN SUPPORTS THE IMPLEMENTATION OF CRAWL SPACE AND BASEMENT FOUNDATIONS. CONTRACTOR TO DETERMINE THE PREFERRED FOUNDATION TYPE ON A LOT BY LOT BASIS.
3. PAD ELEVATIONS HAVE BEEN PROVIDED FOR SELECT LOTS WHERE IT IS ANTICIPATED THAT THE FOUNDATION WILL HAVE TO BE BUILT UP FROM PROPOSED GRADE TO MAINTAIN DRAINAGE AND GRADING DESIGN ON SITE.
4. EST. FFE ABBREVIATES ESTIMATED FINISH FLOOR ELEVATION.
5. THE ESTIMATED FINISH FLOOR ELEVATION PROVIDED FOR SELECT LOTS IS AN APPROXIMATE. FINAL FINISH FLOOR ELEVATION, FINE GRADING, AND DRIVEWAY & BUILDING LOCATIONS TO BE ESTABLISHED BY THE CONTRACTOR/ARCHITECT AT THE TIME OF BUILDING PERMITS.
6. APPROVED CID DRAINAGE PATTERNS AND EASEMENTS TO BE MAINTAINED WITH FINE GRADING ACTIVITIES.
7. DRIVEWAY LONGITUDINAL SLOPES TO BE A MINIMUM OF 2.00% AND A MAXIMUM OF 10.00%.
8. BUILDING AND DRIVEWAYS SHOWN ARE APPROXIMATES TO CONVEY DESIGN INTENT.

North Carolina 811 Call Before You Dig
*** 3 Days Before Digging ***
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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

NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

PRELIMINARY
- DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER
052528
JAKOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

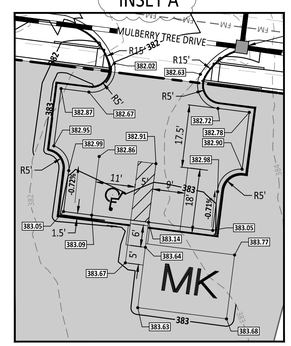
SHEET TITLE:

DRAINAGE PLAN A

SHEET NO.:

C5.1

J:\Jobs\21-002 Moody Development Tract (R7100070)\Engr_ Working Dwgs\Construction Set\5.0-5.3 Drainage and Grading Plan.dwg July 15, 2025



NOTE: SPOT ELEVATIONS WITHIN PARKING LOT ARE ALONG THE EOP

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20

SITE LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
MK	MAIL KIOSK
	LOT LINES
	SETBACK
	PROPOSED ROW
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED BACK OF CURB
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	TOP OF CREEK
	PROPOSED SCM
	PROPOSED FENCE
	SIGHT TRIANGLE

1 NOTE: OFFSITE IMPROVEMENTS SHOWN ARE CURRENTLY UNDER CONSTRUCTION AND NCDOT APPROVED ON JUNE 5th AS A PART OF E051-092-24-00303. THE PRESERVE AT MOODY FARM NCDOT IMPROVEMENTS ONLY INCLUDE AN UPDATED DRIVEWAY (IN SAME LOCATION AS EXISTING) AND A WATER CONNECTION.

GRADING & DRAINAGE NOTES: 3 4

1. PDD ABBREVIATES PERMANENT DIVERSION DITCH.
2. THIS GRADING PLAN SUPPORTS THE IMPLEMENTATION OF CRAWL SPACE AND BASEMENT FOUNDATIONS. CONTRACTOR TO DETERMINE THE PREFERRED FOUNDATION TYPE ON A LOT BY LOT BASIS.
3. PAD ELEVATIONS HAVE BEEN PROVIDED FOR SELECT LOTS WHERE IT IS ANTICIPATED THAT THE FOUNDATION WILL HAVE TO BE BUILT UP FROM PROPOSED GRADE TO MAINTAIN DRAINAGE AND GRADING DESIGN ON SITE.
4. EST. FFE ABBREVIATES ESTIMATED FINISH FLOOR ELEVATION.
5. THE ESTIMATED FINISH FLOOR ELEVATION PROVIDED FOR SELECT LOTS IS AN APPROXIMATE. FINAL FINISH FLOOR ELEVATION, FINE GRADING, AND DRIVEWAY & BUILDING LOCATIONS TO BE ESTABLISHED BY THE CONTRACTOR/ARCHITECT AT THE TIME OF BUILDING PERMITS.
6. APPROVED CID DRAINAGE PATTERNS AND EASEMENTS TO BE MAINTAINED WITH FINE GRADING ACTIVITIES.
7. DRIVEWAY LONGITUDINAL SLOPES TO BE A MINIMUM OF 2.00% AND A MAXIMUM OF 10.00%.
8. BUILDING AND DRIVEWAYS SHOWN ARE APPROXIMATES TO CONVEY DESIGN INTENT.

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

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Raleigh, NC 27607
919-469-1101

NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

PRELIMINARY - DO NOT USE FOR CONSTRUCTION
PROFESSIONAL ENGINEER 052128 JACOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM

CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:

DRAINAGE PLAN B

SHEET NO.:

C5.2

Z:\Jobs\21-002 Moody Development Tract (RZ10003)\Final_Working Dwgs\Construction Set\C5.0-5.3 Drainage and Grading Plan.dwg July 15, 2025

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

GRADING & DRAINAGE NOTES:

1. PDD ABBREVIATES PERMANENT DIVERSION DITCH.
2. THIS GRADING PLAN SUPPORTS THE IMPLEMENTATION OF CRAWL SPACE AND BASEMENT FOUNDATIONS. CONTRACTOR TO DETERMINE THE PREFERRED FOUNDATION TYPE ON A LOT BY LOT BASIS.
3. PAD ELEVATIONS HAVE BEEN PROVIDED FOR SELECT LOTS WHERE IT IS ANTICIPATED THAT THE FOUNDATION WILL HAVE TO BE BUILT UP FROM PROPOSED GRADE TO MAINTAIN DRAINAGE AND GRADING DESIGN ON SITE.
4. EST. FFE ABBREVIATES ESTIMATED FINISH FLOOR ELEVATION.
5. THE ESTIMATED FINISH FLOOR ELEVATION PROVIDED FOR SELECT LOTS IS AN APPROXIMATE. FINAL FINISH FLOOR ELEVATION, FINE GRADING, AND DRIVEWAY & BUILDING LOCATIONS TO BE ESTABLISHED BY THE CONTRACTOR/ARCHITECT AT THE TIME OF BUILDING PERMITS.
6. APPROVED CID DRAINAGE PATTERNS AND EASEMENTS TO BE MAINTAINED WITH FINE GRADING ACTIVITIES.
7. DRIVEWAY LONGITUDINAL SLOPES TO BE A MINIMUM OF 2.00% AND A MAXIMUM OF 10.00%.
8. BUILDING AND DRIVEWAYS SHOWN ARE APPROXIMATES TO CONVEY DESIGN INTENT.

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

NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

PRELIMINARY
- DO NOT USE FOR CONSTRUCTION -
PROFESSIONAL ENGINEER
052578
JAKOB P. KLEIN

NO.	DATE:	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE

STIPULATION FOR REUSE

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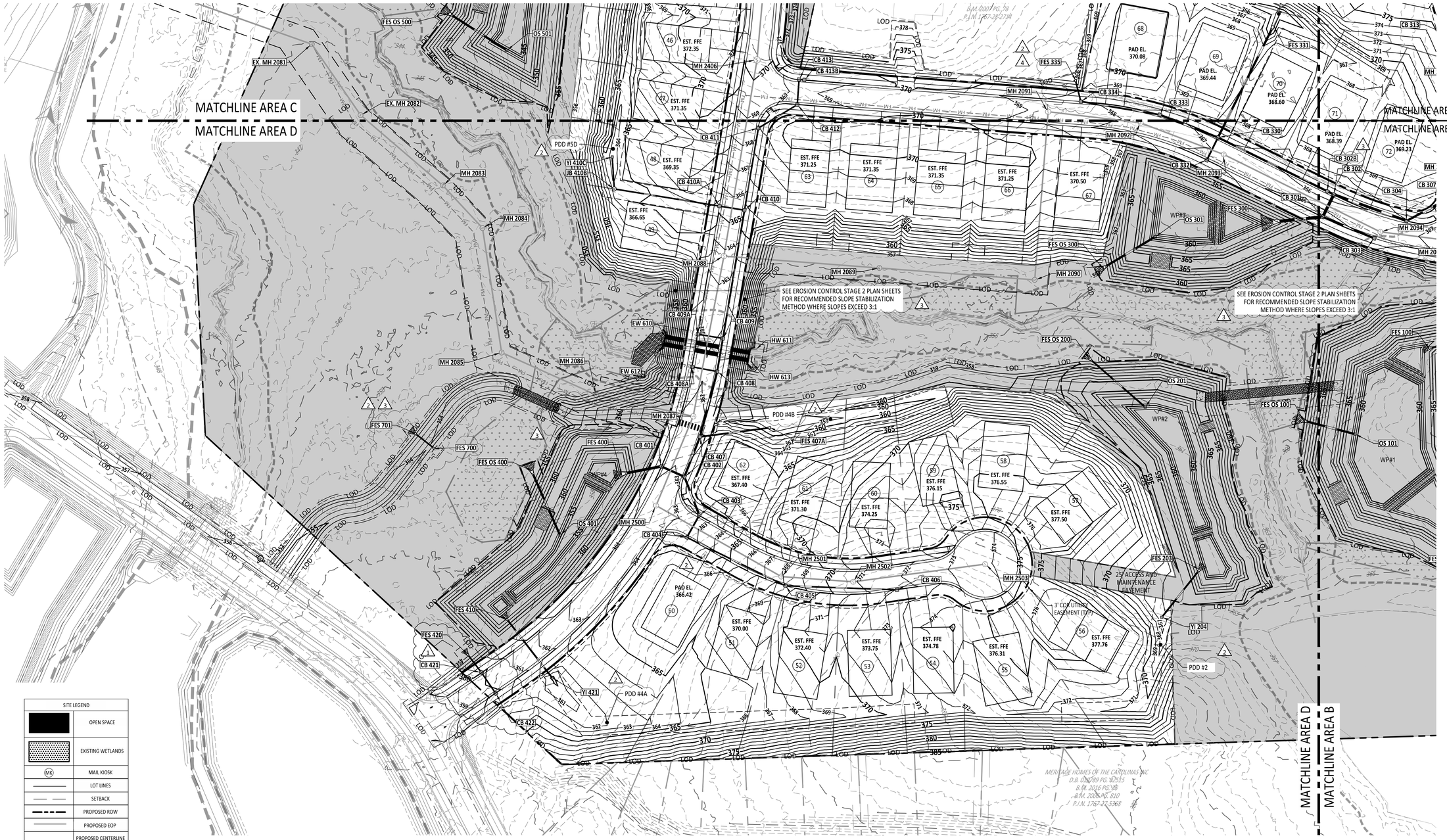
THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:
DRAINAGE PLAN C

SHEET NO.:
C5.3

Z:\Jobs\21-002 Moody Development Trust (9210023)\Dwg_ Working Dwgs\Construction Set\5.0-5.3 Drainage and Grading Plan.dwg July 15, 2025



SITE LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
MK	MAIL KIOSK
	LOT LINES
	SETBACK
	PROPOSED ROW
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED BACK OF CURB
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	TOP OF CREEK
	PROPOSED SCM
	PROPOSED FENCE
	SIGHT TRIANGLE

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

GRADING & DRAINAGE NOTES:

1. PDD ABBREVIATES PERMANENT DIVERSION DITCH.
2. THIS GRADING PLAN SUPPORTS THE IMPLEMENTATION OF CRAWL SPACE AND BASEMENT FOUNDATIONS. CONTRACTOR TO DETERMINE THE PREFERRED FOUNDATION TYPE ON A LOT BY LOT BASIS.
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4. EST. FFE ABBREVIATES ESTIMATED FINISH FLOOR ELEVATION.
5. THE ESTIMATED FINISH FLOOR ELEVATION PROVIDED FOR SELECT LOTS IS AN APPROXIMATE. FINAL FINISH FLOOR ELEVATION, FINE GRADING, AND DRIVEWAY & BUILDING LOCATIONS TO BE ESTABLISHED BY THE CONTRACTOR/ARCHITECT AT THE TIME OF BUILDING PERMITS.
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7. DRIVEWAY LONGITUDINAL SLOPES TO BE A MINIMUM OF 2.00% AND A MAXIMUM OF 10.00%.
8. BUILDING AND DRIVEWAYS SHOWN ARE APPROXIMATES TO CONVEY DESIGN INTENT.

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

NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

PRELIMINARY
- DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 053258 JAKOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

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.

THE PRESERVE AT MOODY FARM

CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

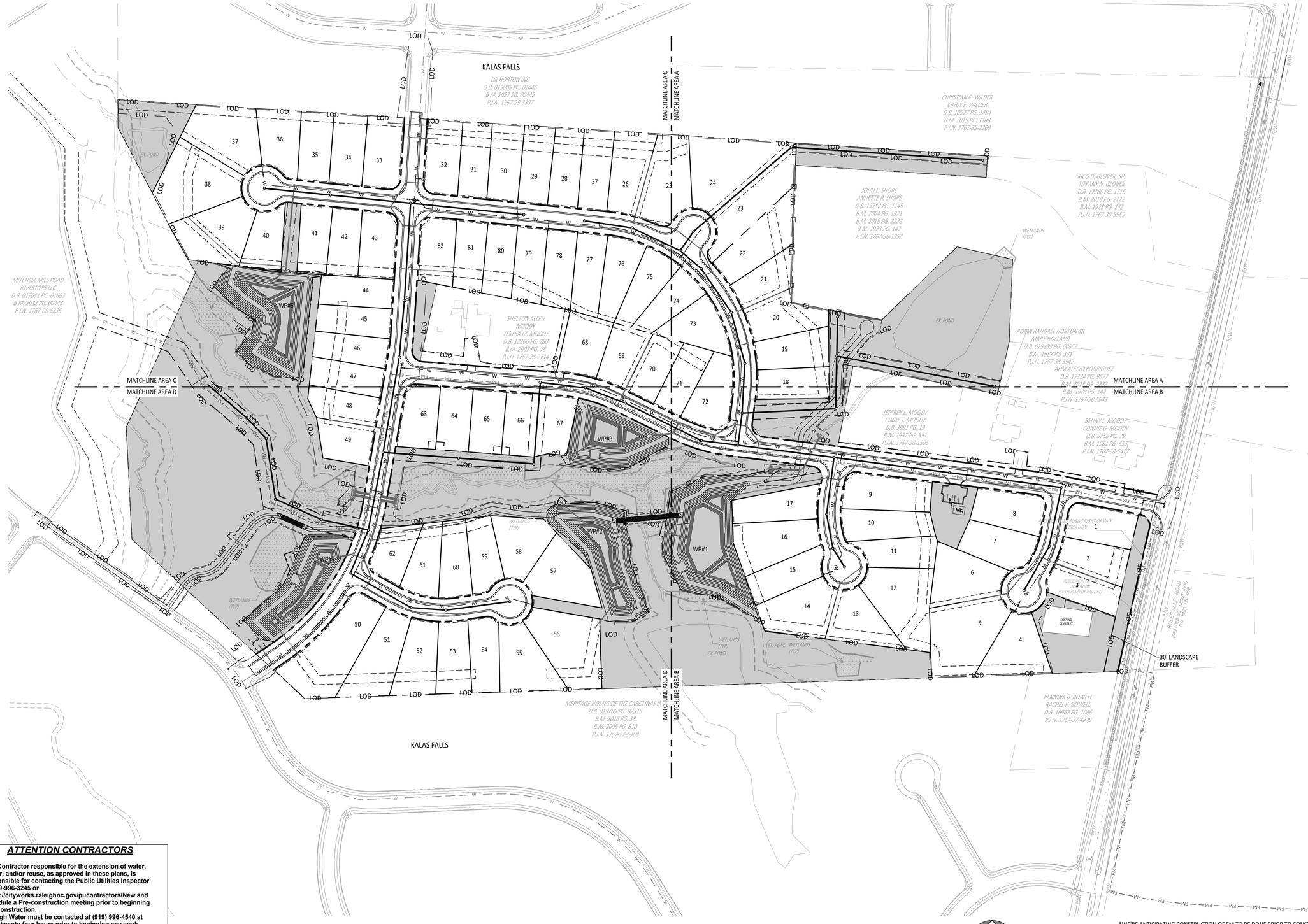
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:

DRAINAGE PLAN D

SHEET NO.:

C5.4



UTILITY LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
MK	MAIL KIOSK
	LOT LINES
	PROPOSED ROW
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED BACK OF CURB
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	TOP OF CREEK
	PROPOSED SCM
	PROPOSED WATERLINE
	PROPOSED SEWERLINE
	PROPOSED MANHOLE
	PROPOSED MANHOLE
	PROPOSED WATER METER
	PROPOSED SEWER SERVICE

NOTE: SEE UTILITY 50 SCALE SHEETS FOR EASEMENT AND APPURTENANCE LABELS.

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch =100

*WE'RE ANTICIPATING CONSTRUCTION OF FM TO BE DONE PRIOR TO CONSTRUCTION OF THIS PROJECT.

ATTENTION CONTRACTORS

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

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

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

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

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

North 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

NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

PRELIMINARY - DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 26528 JOSEPH P. KLEIN JACOB

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

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.

THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:
OVERALL UTILITIES PLAN

SHEET NO.:
C6.0

July 15, 2025
Z:\Jobs\21-002 Moody Development Tract (82,000)\Revit_Working Dwgs\Construction Set\G-Utilities Plan.dwg

MATCHLINE AREA C

MATCHLINE AREA D

MATCHLINE AREA A

MATCHLINE AREA B

20' DRAINAGE EASEMENT

20' COR UTILITY EASEMENT

VARIABLE WIDTH DRAINAGE EASEMENT

OPEN SPACE 7
BLOCK B

OPEN SPACE 6
LOCK B

VARIABLE WIDTH GREENWAY EASEMENT

30' COR UTILITY EASEMENT

3' COR UTILITY EASEMENT

GREENWAY EASEMENT

30' DRAINAGE EASEMENT

EX. POND

WETLANDS (TYP)

MH 2307
MH 2308
MH 2304
4" BOA
4" G.V.
MH 2303
8"x 4" TEE WITH
2-8" GATE VALVE
AND 4" GATE VALVE
MH 2302
MH 2301
MH 2300
MH 2202
MH 2203
MH 2204
MH 2200
MH 2201
YI 325A
YI 316B
YI 310
CB 325
CB 321
CB 319
CB 315
CB 313
CB 312
CB 311
CB 309
CB 308
CB 307
CB 306
CB 304
CB 302
CB 301
CB 330
FES 331
HW FES 603
8" DIP WATERLINE
8" DIP WATERLINE W
8" DIP WATERLINE S
SSWR FM
BY OTHERS
FH

CHRISTIAN C. WILDER
CINDY E. WILDER
D.B. 10927 PG. 1494
B.M. 2019 PG. 1188
P.I.N. 1767-39-2260

JOHN L. SHORE
ANNETTE P. SHORE
D.B. 13782,PG. 1145
B.M. 2004 PG. 1971
B.M. 2018 PG. 2222
B.M. 1928 PG. 142
P.I.N. 1767-38-1953

RICO D. GLOVER, SR.
TIFFANY N. GLOVER
D.B. 17360 PG. 1716
B.M. 2018 PG. 2222
B.M. 1928 PG. 142
P.I.N. 1767-38-5959

ROBIN RANDALL HORTON SR
MARY HOLLAND
D.B. 019133 PG. 00852
B.M. 1987 PG. 331
P.I.N. 1767-38-3542

ALEX ALECIO RODRIGUEZ
D.B. 17334 PG. 9677
B.M. 2018 PG. 2222
B.M. 1928 PG. 142
P.I.N. 1767-38-5943

JEFFREY L. MOODY
CINDY T. MOODY
D.B. 3991 PG. 19
B.M. 1987 PG. 331
P.I.N. 1767-38-1505

BENNY L. MOODY
CONNIE G. MOODY
D.B. 3758 PG. 29
B.M. 1981 PG. 653
P.I.N. 1767-38-6472

SEE NOTE THIS SHEET

SEE NOTE THIS SHEET

SEE NOTE THIS SHEET

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

ATTENTION CONTRACTORS

The Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Inspector at 919-996-3245 or https://cityworks.raleighnc.gov/pucontractors/New and schedule a Pre-construction meeting prior to beginning any construction.
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UTILITY LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
MK	MAIL KIOSK
	LOT LINES
	PROPOSED ROW
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED BACK OF CURB
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	TOP OF CREEK
	PROPOSED SCM
	PROPOSED WATERLINE
	PROPOSED SEWERLINE
	PROPOSED MANHOLE
	PROPOSED MANHOLE
	PROPOSED WATER METER
	PROPOSED SEWER SERVICE

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

City of Raleigh
Public Utilities Department Permit # _____

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

City of Raleigh
Public Utilities Department Permit # _____

North Carolina 811
Know what's below. Call before you dig.
*** 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

NORTH CAROLINA ENGINEERING CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

PRELIMINARY
- DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER
25528
JAKOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

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.

THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:

UTILITY PLAN A

SHEET NO.:
C6.1

Z:\Jobs\21-002 Moody Development Trust (P210002)\dwg_Working Dwgs\Construction Set\6.0-Utilities Plan.dwg
July 15, 2025

UTILITY LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
MK	MAIL KIOSK
	LOT LINES
	PROPOSED ROW
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED BACK OF CURB
	50' NELSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	TOP OF CREEK
	PROPOSED SCM
	PROPOSED WATERLINE
	PROPOSED SEWERLINE
	PROPOSED MANHOLE
	PROPOSED MANHOLE
	PROPOSED WATER METER
	PROPOSED SEWER SERVICE

NOTE: OFFSITE IMPROVEMENTS SHOWN ARE CURRENTLY UNDER CONSTRUCTION AND NCDOT APPROVED ON JUNE 5th AS A PART OF E051-092-24-00303. THE PRESERVE AT MOODY FARM NCDOT IMPROVEMENTS ONLY INCLUDE AN UPDATED DRIVEWAY (IN SAME LOCATION AS EXISTING) AND A WATER CONNECTION.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

NOTE:
1. UTILITY SERVICES OF EXISTING PROPERTIES SHALL BE CONFIRMED PRIOR TO CONSTRUCTION TO ENSURE PROPOSED DEVELOPMENT IS NOT IN CONFLICT. CONTACT AMERICAN ENGINEERING IF THERE ARE ANY DISCREPENCIES.

ATTENTION CONTRACTORS

The Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Inspector at 919-996-3245 or https://cityworks.raleighnc.gov/pucontractors/New and schedule a Pre-construction meeting prior to beginning any construction.
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Public
Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # _____

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

North 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

NORTH CAROLINA ENGINEERING CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

PRELIMINARY
- DO NOT USE FOR CONSTRUCTION
PROFESSIONAL ENGINEER
053258
JAROD P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:
UTILITY PLAN B

SHEET NO.:
C6.2

July 15, 2025
21x0x12 002 Moody Development Tract (R21000)\Engr_Working Dwgs\Construction Set\6.0 Utilities Plan.dwg

UTILITY LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
MK	MAIL KIOSK
	LOT LINES
	PROPOSED ROW
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED BACK OF CURB
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	TOP OF CREEK
	PROPOSED SCM
	PROPOSED WATERLINE
	PROPOSED SEWERLINE
	PROPOSED MANHOLE
	PROPOSED MANHOLE
	PROPOSED WATER METER
	PROPOSED SEWER SERVICE

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50

NOTE:

1. UTILITY SERVICES OF EXISTING PROPERTIES SHALL BE CONFIRMED PRIOR TO CONSTRUCTION TO ENSURE PROPOSED DEVELOPMENT IS NOT IN CONFLICT. CONTACT AMERICAN ENGINEERING IF THERE ARE ANY DISCREPENCIES.
2. WATER MAIN AT TINSLEY CREST LOOP WILL BE CONSTRUCTED TO THE EXISTING BOA WITH KALAS FALLS PHASE 1. WE'RE ANTICIPATING CONSTRUCTION OF FM TO BE DONE PRIOR TO THE CONSTRUCTION OF THIS PROJETCT.

ATTENTION CONTRACTORS

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

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

North 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

NORTH CAROLINA PROFESSIONAL ENGINEER 25528 JAROD P. KLEIN

AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 NORTH CAROLINA CERTIFICATE OF AUTHORIZATION

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:

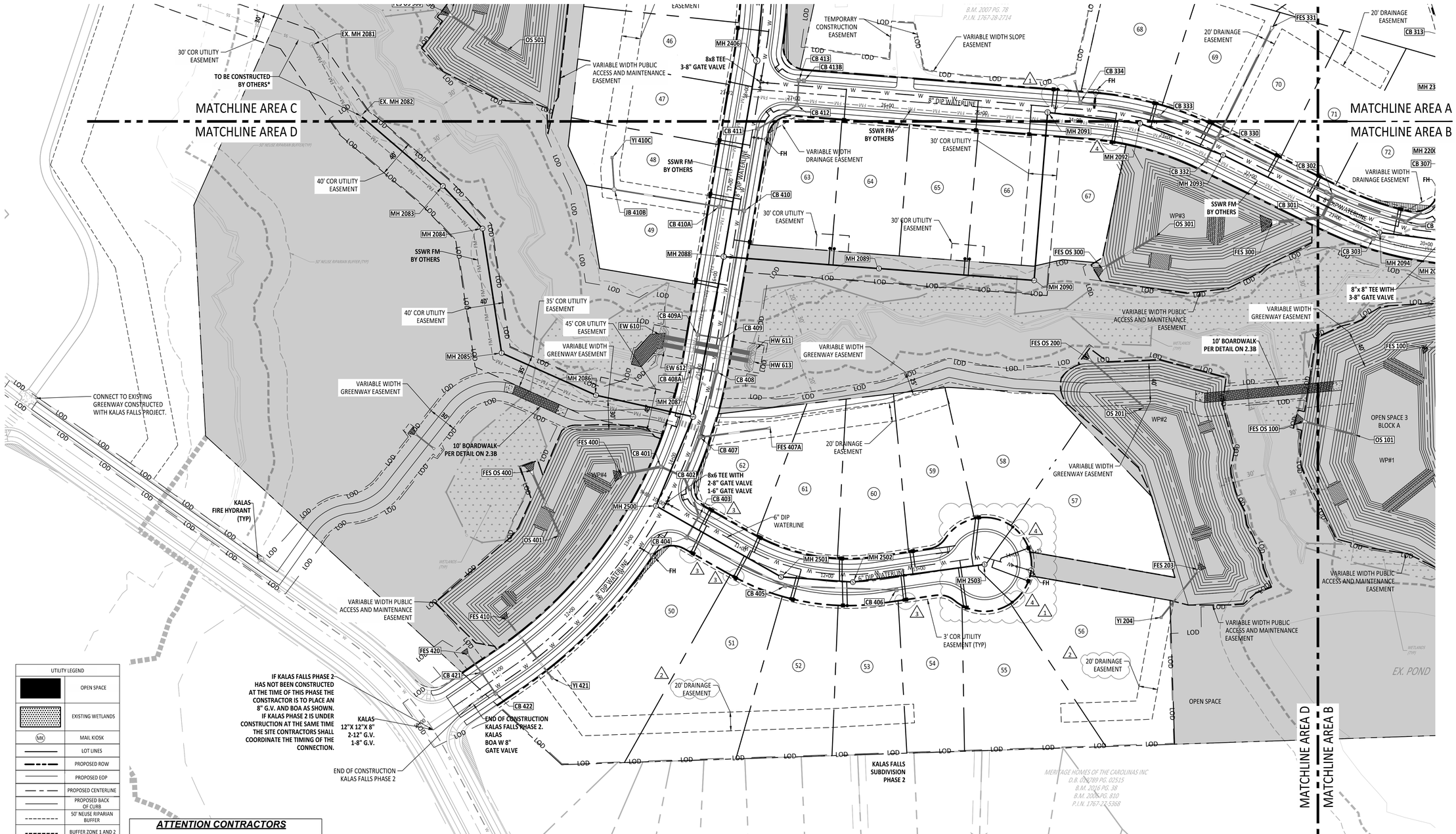
UTILITY PLAN C

SHEET NO.:

C6.3

July 15, 2025

Z:\Jobs\21-002 Moody Development Tract II\21002\2\dwg_Working Dwgs\Construction Set\6.0-Utilities Plan.dwg



UTILITY LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
MK	MAIL KIOSK
	LOT LINES
	PROPOSED ROW
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED BACK OF CURB
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	TOP OF CREEK
	PROPOSED SCM
	PROPOSED WATERLINE
	PROPOSED SEWERLINE
	PROPOSED MANHOLE
	PROPOSED MANHOLE
	PROPOSED WATER METER
	PROPOSED SEWER SERVICE

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

ATTENTION CONTRACTORS

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

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

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

NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

PRELIMINARY
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 053588 JACOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
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4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFF-LINE)

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:

UTILITY PLAN D

SHEET NO.:

C6.4

July 15, 2025
Z:\Jobs\21-002 Moody Development Tract (8310003)\Awg_Working Dwgs\Construction Set\GA-Utilities Plan.dwg

RIP RAP DISSIPATER CALCULATIONS 10-YEAR STORM

2 3

OUTLET ID	PIPE DIAMETER (IN)	PIPE VELOCITY (FPS)	STONE CLASS	STONE DEPTH (IN)	STONE MATERIAL (TONS)	GEO-TEXTILE (SY)	START WIDTH (FT)	END WIDTH (FT)	LENGTH (FT)
FES 100	18	2.20	B	12	2	7	3	9	6
FES 125	24	4.48	B	12	3	11	4	12	8
FES OS 100	24	0.18	B	12	3	11	4	12	8
FES 110	18	4.48	B	12	2	7	3	9	5
FES 120	15	2.61	B	12	2	7	2.5	7.5	5
EW 101	36	4.21	I	18	13	30	6	18	12
FES OS 200	18	0.10	B	12	2	7	3	9	6
FES 203	18	2.05	B	12	2	7	3	9	6
FES 300	36	4.67	I	18	10	23	6	18	12
FES OS 300	24	5.98	I	18	4	16	5	15	10
FES 400	30	2.89	B	12	5	11	4	12	8
FES OS 400	24	3.57	B	12	3	11	4	12	8
FES 410	18	3.53	B	12	2	7	3	9	6
FES 420	15	2.45	B	12	2	7	2.5	7.5	5
FES 500	30	4.92	B	12	5	16	5	15	10
FES OS 500	24	0.32	B	12	3	11	4	12	8
FES 602	18	5.01	B	12	3	10	3	9	6
EW 610	54 (DBL)	5.17	I	18	40	75	16	16	40
FES 701	15	2.55	B	12	2	7	2.5	7.5	5
CALCULATIONS WERE DETERMINED FROM NCDOT DETAIL 876.02 GUIDE FOR RIP RAP AT PIPE OUTLETS									
VALUES SHOWN IN TABLE ABOVE ARE MINIMUM QUANTITIES AND DIMENSIONS									
WOD IS ABBREVIATION FOR WIDTH OF DITCH									
DBL IS DOUBLE BARELL PIPE									

10-YEAR EROSION & SEDIMENT CONTROL STAGE 1 DIVERSION DITCH CALCULATIONS (3:1 SIDE SLOPES)

TDD #	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)	WIDTH (FT)	DEPTH (FT)	V_{10} (FT/S)	CALCULATED τ (LBS/FT^2)	RECOMMENDED LINER	LINER ALLOWABLE τ (LBS/FT^2)
1A1	1.07	1.10	9.00	1.50	2.29	1.03	Geocoir/Dekowe; Straw; RS-2	1.25
1A2	4.91	3.20	9.00	1.50	5.04	2.99	Geocoir/Dekowe; 400	3.10
2	0.81	5.90	9.00	1.50	3.96	5.52	Profile/Enkamat; 7010, seed and hyrdomulch	6.00
3A1	1.68	4.60	9.00	1.50	4.40	4.31	Geocoir/Dekowe; 700	4.46
3A2	2.58	2.90	9.00	1.50	4.10	2.71	Geocoir/Dekowe; 400	3.10
4B	1.41	0.50	9.00	1.50	1.84	0.47	Geocoir/Dekowe; Straw; RS-1	0.83
5B	4.88	1.00	12.00	2.00	3.29	1.25	E. Coast Ero. Blank.; Straw/Coir, 2 Jute nets	1.35
5C	1.51	7.30	9.00	1.50	5.09	6.83	Profile/Enkamat; 7018, seed and hyrdomulch	7.00
6	1.63	3.16	9.00	1.50	3.78	2.96	Geocoir/Dekowe; 400	3.10
7	1.83	5.00	9.00	1.50	5.50	4.68	Profile/Enkamat; 7010, seed and hyrdomulch	6.00
8	1.14	0.75	9.00	1.50	2.42	0.70	Geocoir/Dekowe; Straw; RS-1	0.83
9	1.22	0.50	9.00	1.50	1.77	0.47	Geocoir/Dekowe; Straw; RS-1	0.83
10	1.16	3.00	6.00	1.00	3.43	1.87	Geocoir/Dekowe; Coconut, RSC-4	2.00
11	1.22	2.10	6.00	1.00	3.01	1.31	E. Coast Ero. Blank.; Straw/Coir, 2 Jute nets	1.35

NOTE: ALL TEMPORARY DIVERSION DITCHES (TDD) CROSS SECTIONS ARE TRIANGULAR.
TRACTIVE FORCE, τ, IS CALCULATED USING: $\tau = (\gamma)(D_{CHAN})(S_{CHAN})$
WHERE:
- γ IS THE UNIT WEIGHT OF WATER (ASSUMED TO BE 62.4 LB/FT^3)
- D_{CHAN} IS THE DEPTH OF FLOW IN THE CHANNEL (FT/FT)
- S_{CHAN} IS THE SLOPE OF THE CHANNEL (FT/FT)

10-YEAR PERMANENT DIVERSION DITCH CALCULATIONS (3:1 SIDE SLOPES)

PDD #	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)	WIDTH (FT)	DEPTH (FT)	V_{10} (FT/S)	CALCULATED τ (LBS/FT^2)	RECOMMENDED LINER	LINER ALLOWABLE τ (LBS/FT^2)
1A	4.20	1.30	12	2	3.52	1.62	AM. EXCELSIOR CO; CURLEX II.98; 2 NETS	2.00
1B	0.86	1.84	9	1.5	2.69	1.72	AM. EXCELSIOR CO; CURLEX II.98; 2 NETS	2.00
2	0.59	3.00	9	1.5	3.10	2.81	AM. EXCELSIOR CO; CURLEX HV; 2 NETS	3.00
3A	2.48	1.84	9	1.5	3.45	1.72	AM. EXCELSIOR CO; CURLEX II.98; 2 NETS	2.00
3B	1.00	3.43	9	1.5	3.71	3.21	PROFILE/ENKAMAT; 7003	5.00
3C	0.59	1.64	9	1.5	2.61	1.54	AM. EXCELSIOR CO; CURLEX II.98; 2 NETS	2.00
3D	0.76	1.00	9	1.5	2.16	0.94	SEED & MULCH	1.50
4A	1.61	2.73	9	1.5	3.80	2.56	AM. EXCELSIOR CO; CURLEX HV; 2 NETS	3.00
4B	0.74	1.11	9	1.5	2.22	1.04	SEED & MULCH	1.50
5A	1.23	3.16	9	1.5	3.69	3.61	AM. EXCELSIOR CO; CURLEX HV; 2 NETS	3.00
5B	0.64	1.46	9	1.5	2.38	1.37	SEED & MULCH	1.50
5C	0.85	3.85	9	1.5	3.73	3.60	PROFILE/ENKAMAT; 7003	5.00
5D	0.58	0.70	9	1.5	1.74	0.66	SEED & MULCH	1.50
6	1.58	3.16	9	1.5	3.77	2.96	AM. EXCELSIOR CO; CURLEX HV; 2 NETS	3.00
7	2.84	5.00	9	1.5	5.89	4.68	PROFILE/ENKAMAT; 7003	5.00

NOTE: ALL PERMANENT DIVERSION DITCHES (PDD) CROSS SECTIONS ARE TRIANGULAR.
TRACTIVE FORCE, τ, IS CALCULATED USING: $\tau = (\gamma)(D_{CHAN})(S_{CHAN})$
WHERE:
- γ IS THE UNIT WEIGHT OF WATER (ASSUMED TO BE 62.4 LB/FT^3)
- D_{CHAN} IS THE DEPTH OF FLOW IN THE CHANNEL (FT/FT)
- S_{CHAN} IS THE SLOPE OF THE CHANNEL (FT/FT)

PLEASE SEE PERMANENT DIVERSION DITCH NOMENCLATURE ON GRADING ENLARGEMENT SHEETS WITHIN THIS PLANSET.

4

SSWR - STRUCTURE TABLE

STRUCTURE NAME:	DESCRIPTION	PIPES IN:	PIPES OUT
EX. MH 2082	SSWR MH 4' RIM = 347.52 INV IN = 338.24 INV OUT = 338.04	8" SDR 35 INV.=338.24	8" SDR 35 INV.=338.04
MH 2083	SSWR MH 4' RIM = 347.50 INV IN = 340.17 INV OUT = 339.97	8" SDR 35 INV.=340.17	8" SDR 35 INV.=339.97
MH 2084	SSWR MH 4' RIM = 348.65 INV IN = 341.01 INV OUT = 340.81	8" SDR 35 INV.=341.01	8" SDR 35 INV.=340.81
MH 2085	SSWR MH 4' RIM = 352.24 INV IN = 341.94 INV OUT = 341.74	8" SDR 35 INV.=341.94	8" SDR 35 INV.=341.74
MH 2086	SSWR MH 4' RIM = 354.57 INV IN = 342.75 INV OUT = 342.55	8" SDR 26 INV.=342.75	8" SDR 35 INV.=342.55
MH 2087	SSWR MH 5' RIM = 362.30 INV IN = 345.06 INV IN = 343.50 INV OUT = 343.30	8" SDR 26 INV.=345.06 8" SDR 26 INV.=343.50	8" SDR 26 INV.=343.30
MH 2088	SSWR MH 5' RIM = 363.68 INV IN = 345.20 INV IN = 345.20 INV OUT = 344.54	8" SDR 26 INV.=345.20 8" DIP INV.=345.20	8" SDR 26 INV.=344.54
MH 2089	SSWR MH 4' RIM = 357.54 INV IN = 349.32 INV OUT = 349.12	8" SDR 35 INV.=349.32	8" SDR 26 INV.=349.12
MH 2090	SSWR MH 4' RIM = 357.70 INV IN = 351.18 INV OUT = 350.98	8" SDR 35 INV.=351.18	8" SDR 35 INV.=350.98
MH 2091	SSWR MH 5' RIM = 368.52 INV IN = 356.32 INV OUT = 356.02	8" SDR 26 INV.=356.32	8" SDR 35 INV.=356.02
MH 2092	SSWR MH 4' RIM = 367.80 INV IN = 357.02 INV OUT = 356.82	8" SDR 35 INV.=357.02	8" SDR 26 INV.=356.82
MH 2093	SSWR MH 4' RIM = 366.85 INV IN = 357.69 INV OUT = 357.49	8" SDR 35 INV.=357.69	8" SDR 35 INV.=357.49
MH 2094	SSWR MH 4' RIM = 366.59 INV IN = 358.90 INV OUT = 358.70	8" SDR 35 INV.=358.90	8" SDR 35 INV.=358.70
MH 2095	SSWR MH 4' RIM = 367.73 INV IN = 359.71 INV IN = 359.51 INV OUT = 359.31	8" SDR 35 INV.=359.71 8" SDR 35 INV.=359.51	8" SDR 35 INV.=359.31
MH 2096	SSWR MH 4' RIM = 373.78 INV IN = 363.42 INV IN = 364.03 INV OUT = 362.33	8" SDR 35 INV.=363.42 8" SDR 35 INV.=364.03	8" SDR 35 INV.=362.33
MH 2097	SSWR MH 4' RIM = 381.39 INV IN = 372.29 INV OUT = 372.09	8" SDR 35 INV.=372.29	8" SDR 35 INV.=372.09
MH 2098	SSWR MH 4' RIM = 388.87 INV IN = 377.92 INV OUT = 377.67	8" SDR 35 INV.=377.92	8" SDR 35 INV.=377.67
MH 2099	SSWR MH 4' RIM = 387.14 INV IN = 378.78 INV OUT = 378.58	8" SDR 35 INV.=378.78	8" SDR 35 INV.=378.58
MH 2100	SSWR MH 4' RIM = 386.29 INV OUT = 379.34		8" SDR 35 INV.=379.34
MH 2110	SSWR MH 4' RIM = 375.00 INV IN = 366.12 INV OUT = 365.92	8" SDR 35 INV.=366.12	8" SDR 35 INV.=365.92
MH 2111	SSWR MH 4' RIM = 374.79 INV IN = 367.08 INV OUT = 366.88	8" SDR 35 INV.=367.08	8" SDR 35 INV.=366.88
MH 2112	SSWR MH 4' RIM = 374.00 INV OUT = 367.56		8" SDR 35 INV.=367.56
MH 2200	SSWR MH 4' RIM = 368.37 INV IN = 361.77 INV IN = 360.27 INV OUT = 360.07	8" SDR 35 INV.=361.77 8" SDR 35 INV.=360.27	8" SDR 35 INV.=360.07
MH 2201	SSWR MH 4' RIM = 372.52 INV IN = 364.50 INV OUT = 362.80	8" SDR 35 INV.=364.50	8" SDR 35 INV.=362.80
MH 2202	SSWR MH 4' RIM = 377.50 INV IN = 365.86 INV IN = 366.45 INV OUT = 365.66	8" SDR 26 INV.=365.86 8" SDR 35 INV.=366.45	8" SDR 35 INV.=365.66

SSWR - STRUCTURE TABLE

STRUCTURE NAME:	DESCRIPTION	PIPES IN:	PIPES OUT
MH 2203	SSWR MH 5' RIM = 387.82 INV OUT = 369.38		8" SDR 26 INV.=369.38
MH 2204	SSWR MH 4' RIM = 379.49 INV OUT = 366.88		8" SDR 35 INV.=366.88
MH 2300	SSWR MH 4' RIM = 373.31 INV IN = 366.20 INV OUT = 366.00	8" SDR 35 INV.=366.20	8" SDR 35 INV.=366.00
MH 2301	SSWR MH 4' RIM = 375.81 INV IN = 368.57 INV OUT = 368.37	8" SDR 35 INV.=368.57	8" SDR 35 INV.=368.37
MH 2302	SSWR MH 4' RIM = 376.97 INV IN = 369.64 INV OUT = 369.44	8" SDR 35 INV.=369.64	8" SDR 35 INV.=369.44
MH 2303	SSWR MH 4' RIM = 377.58 INV IN = 370.14 INV IN = 370.50 INV OUT = 369.94	8" SDR 35 INV.=370.14 8" SDR 35 INV.=370.50	8" SDR 35 INV.=369.94
MH 2304	SSWR MH 4' RIM = 380.19 INV IN = 372.33 INV OUT = 371.27	8" SDR 26 INV.=372.33	8" SDR 35 INV.=371.27
MH 2305	SSWR MH 4' RIM = 378.75 INV IN = 371.92 INV OUT = 370.72	8" SDR 35 INV.=371.92	8" SDR 35 INV.=370.72
MH 2306	SSWR MH 4' RIM = 378.50 INV OUT = 372.45		8" SDR 35 INV.=372.45
MH 2307	SSWR MH 5' RIM = 392.73 INV IN = 377.89 INV OUT = 377.69	8" SDR 26 INV.=377.89	8" SDR 26 INV.=377.69
MH 2308	SSWR MH 4' RIM = 385.18 INV OUT = 380.00		8" SDR 26 INV.=380.00
MH 2406	SSWR MH 6' RIM = 370.35 INV IN = 346.56 INV OUT = 346.36	8" DIP INV.=346.56	8" DIP INV.=346.36
MH 2407	SSWR MH 6' RIM = 369.82 INV IN = 347.39 INV OUT = 347.19	8" DIP INV.=347.39	8" DIP INV.=347.19
MH 2408	SSWR MH 5' RIM = 367.77 INV IN = 350.46 INV IN = 348.66 INV OUT = 348.46	8" SDR 26 INV.=350.46 8" SDR 26 INV.=348.66	8" DIP INV.=348.46
MH 2409	SSWR MH 5' RIM = 374.76 INV OUT = 357.25		8" SDR 26 INV.=357.25
MH 2410	SSWR MH 4' RIM = 359.99 INV IN = 349.74 INV OUT = 349.54	8" SDR 35 INV.=349.74	8" SDR 26 INV.=349.54
MH 2411	SSWR MH 4' RIM = 358.00 INV OUT = 350.47		8" SDR 35 INV.=350.47
MH 2500	SSWR MH 4' RIM = 363.57 INV IN = 352.85 INV OUT = 352.65	8" SDR 35 INV.=352.85	8" SDR 26 INV.=352.65
MH 2501	SSWR MH 4' RIM = 367.90 INV IN = 359.70 INV OUT = 359.50	8" SDR 35 INV.=359.70	8" SDR 35 INV.=359.50
MH 2502	SSWR MH 4' RIM = 370.88 INV IN = 361.52 INV OUT = 361.32	8" SDR 35 INV.=361.52	8" SDR 35 INV.=361.32
MH 2503	SSWR MH 4' RIM = 373.79 INV OUT = 364.20		8" SDR 35 INV.=364.20

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

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

North 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

NORTH CAROLINA ENGINEERING CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER
053528
JACOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFF-LINE)

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.

THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:
SCHEDULE

SHEET NO.:
C7.0

SCM 1 - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 101	FES 100	18"	229.12	2.20%	363.00	368.04
CB 102	CB 101	18"	27.00	0.52%	368.14	368.28
CB 103	CB 102	18"	45.91	3.27%	368.48	369.98
CB 104	CB 103	15"	27.00	0.52%	370.18	370.32
CB 105	CB 103	15"	244.37	2.92%	370.18	377.31
CB 106	CB 105	15"	27.04	0.63%	378.23	378.40
CB 106A	CB 106	15"	6.01	0.50%	378.60	378.63
CB 107	CB 105	15"	252.43	2.98%	377.41	384.92
CB 111	FES 110	18"	96.03	0.58%	380.50	381.06
CB 111A	CB 111	15"	5.93	0.50%	381.26	381.29
CB 114	CB 111	15"	107.82	1.00%	381.26	382.34
CB 115	CB 114	15"	27.00	0.50%	382.54	382.67
CB 116	CB 115	15"	59.00	0.50%	382.88	383.18
CB 121	FES 120	15"	94.32	0.50%	369.84	370.31
CB 121B	CB 121	15"	6.49	1.00%	370.61	370.67
* CB 122	CB 121	15"	59.04	0.50%	370.61	370.90
DI 126	FES 125	24"	41.51	0.50%	363.50	363.71
FES 115	CB 115	15"	139.35	0.50%	382.78	383.48

SCM 1 Outfall - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
OS 101	FES OS 100	24"	56.33	1.33%	359.00	359.75

SCM 2 - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
YI 204	FES 203	18"	64.79	1.16%	361.50	362.25

SCM 2 Outfall - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
OS 201	FES OS 200	18"	78.75	0.95%	357.00	357.75

SCM 3 - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
* CB 301	FES 300	36"	53.32	0.50%	360.94	361.21
* CB 302	CB 301	36"	26.58	0.50%	361.31	361.44
*CB 302B	CB 302	24"	7.75	0.50%	361.64	361.68
* CB 303	CB 301	24"	59.39	0.50%	362.30	362.60
* CB 304	CB 302	30"	82.34	0.50%	361.64	362.05
CB 305	CB 306	15"	27.00	1.16%	364.58	364.89
CB 306	CB 308	24"	43.54	0.50%	363.24	363.46
* CB 307	CB 304	24"	50.86	0.50%	362.25	362.50
* CB 308	CB 307	24"	27.00	0.50%	362.70	362.84
CB 309	CB 308	24"	59.52	2.74%	363.34	364.97
CB 311	CB 309	18"	63.41	2.96%	365.17	367.05
CB 312	CB 311	18"	59.35	2.66%	367.25	368.83
CB 313	CB 312	15"	27.00	0.67%	369.94	370.12
CB 315	CB 312	18"	73.13	1.55%	369.03	370.16
CB 317	CB 315	18"	104.51	1.00%	370.66	371.71
CB 318	CB 317	15"	27.57	0.50%	372.86	373.00
CB 319	CB 317	18"	54.16	1.00%	371.91	372.45
CB 321	CB 319	15"	72.18	0.76%	373.45	374.00
CB 325	CB 321	15"	92.96	0.50%	374.60	375.06
* CB 330	CB 302B	24"	129.47	0.50%	361.78	362.43
CB 332	CB 330	18"	27.00	0.50%	363.50	363.64
CB 333	CB 330	24"	66.36	0.50%	363.00	363.33
CB 334	CB 333	18"	85.14	0.50%	363.53	363.96
FES 331	CB 330	24"	132.30	0.50%	363.12	363.78
FES 335	CB 334	15"	23.82	5.21%	364.16	365.40
YI 310	CB 309	15"	163.44	1.00%	365.80	367.43
YI 316B	CB 315	15"	112.85	1.18%	371.88	373.21
YI 325A	CB 325	15"	150.51	0.50%	375.27	376.02

SCM 3 Outfall - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
OS 301	FES OS 300	24"	64.87	1.16%	357.00	357.75

*DENOTES CLASS IV RCP (ALL STORM DRAINAGE PIPES ARE TO BE RCP CLASS III OTHERWISE)

Bypass - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 421	FES 420	15"	24.87	0.50%	356.16	356.28
CB 422	CB 421	15"	27.01	0.50%	356.41	356.55
FES 601	FES 602	18"	93.42	5.50%	364.86	370.00
FES 700	FES 701	15"	26.59	3.76%	350.75	351.75

SCM 4 Outfall - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
OS 401	FES OS 400	24"	75.13	0.50%	353.37	353.75

SCM 4 - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 401	FES 400	30"	42.89	0.50%	356.86	357.07
CB 402	CB 401	24"	27.00	0.50%	357.26	357.40
CB 403	CB 402	24"	43.91	0.50%	357.60	357.82
CB 404	CB 403	18"	27.00	1.00%	358.02	358.29
CB 405	CB 404	15"	116.82	3.00%	358.79	362.29
CB 406	CB 405	15"	118.49	3.00%	363.30	366.85
CB 407	CB 402	24"	45.60	0.50%	357.60	357.83
* CB 408	CB 407	24"	71.73	0.50%	357.93	358.29
CB 408A	CB 408	15"	27.00	0.72%	358.68	358.88
* CB 409	CB 408	18"	35.77	0.50%	358.49	358.67
CB 409A	CB 409	15"	27.00	0.50%	358.97	359.11
* CB 410	CB 409	18"	138.24	1.00%	358.87	360.25
CB 410A	CB 410	15"	26.98	0.50%	360.45	360.58
CB 411	CB 410	15"	88.56	4.21%	360.58	364.31
CB 412	CB 411	15"	48.25	0.50%	364.51	364.75
CB 413	CB 412	15"	26.99	0.50%	364.95	365.08
CB 413B	CB 413	15"	5.61	1.00%	365.29	365.35
FES 407A	CB 407	18"	75.64	0.50%	358.53	358.91
JB 410B	CB 410A	15"	113.24	0.50%	360.69	361.26
YI 410C	JB 410B	15"	34.09	0.50%	361.46	361.63
YI 421	FES 410	18"	79.66	0.50%	356.95	357.35

SCM 5 - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 502	YI 501A	30"	152.25	2.00%	347.61	350.65
CB 503	CB 502	15"	27.00	0.52%	353.30	353.44
CB 504	CB 502	24"	215.40	4.69%	351.06	361.17
CB 505	CB 504	18"	48.26	0.99%	361.37	361.85
CB 506	CB 505	18"	27.00	0.50%	362.35	362.49
CB 507	CB 506	15"	49.03	0.50%	362.69	362.94
CB 508	CB 507	15"	27.00	0.50%	363.14	363.28
CB 510	CB 511	15"	27.00	0.89%	364.00	364.24
CB 511	CB 504	15"	64.21	1.32%	362.27	363.12
CB 513	CB 505	15"	94.51	0.50%	362.69	363.16
CB 514	CB 508	15"	184.91	3.50%	363.48	369.95
CB 515	CB 514	15"	27.53	1.00%	370.15	370.43
CB 516	CB 517	15"	27.00	1.50%	367.09	367.49
CB 517	CB 511	15"	98.95	3.00%	363.62	366.59
FES 516A	CB 516	15"	36.50	1.62%	367.70	368.29
YI 501	FES 500	30"	45.55	0.50%	346.92	347.15
YI 501A	YI 501	30"	11.31	0.50%	347.35	347.41
YI 501B	YI 501A	15"	106.74	0.50%	347.82	348.35
YI 501C	YI 501B	15"	148.23	0.50%	348.45	349.19
YI 513A	CB 513	15"	117.13	0.50%	363.36	363.95

SCM 5 Outfall - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
OS 501	FES OS 500	24"	72.88	1.00%	343.02	343.75

Culvert Crossing - East - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
HW FES 603	JB 602	36"	82.14	1.78%	365.04	366.50
JB 602	EW 101	36"	67.94	0.50%	364.50	364.84

Culvert Crossing - West - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
HW 611	EW 610	54"	91.55	1.09%	347.00	348.00
HW 613	EW 612	54"	91.55	1.09%	347.00	348.00

SCM 1 - Structure Table

Structure Name	Details
CB 101	RIM = 373.82 INV IN = 368.14 INV OUT = 368.04
CB 102	RIM = 373.87 INV IN = 368.48 INV OUT = 368.28
CB 103	RIM = 375.04 INV IN = 370.18 INV IN = 370.18 INV OUT = 369.98
CB 104	RIM = 375.04 INV OUT = 370.32
CB 105	RIM = 382.57 INV IN = 377.41 INV IN = 378.23 INV OUT = 377.31
CB 106	RIM = 382.57 INV IN = 378.60 INV OUT = 378.40
CB 106A	RIM = 382.92 INV OUT = 378.63
CB 107	RIM = 390.04 INV OUT = 384.92
CB 111	RIM = 385.25 INV IN = 381.26 INV IN = 381.26 INV OUT = 381.06
CB 111A	RIM = 385.25 INV OUT = 381.29
CB 114	RIM = 387.03 INV IN = 382.54 INV OUT = 382.34
CB 115	RIM = 387.04 INV IN = 382.88 INV IN = 382.78 INV OUT = 382.67
CB 116	RIM = 387.89 INV OUT = 383.18
CB 121	RIM = 374.00 INV IN = 370.61 INV IN = 370.61 INV OUT = 370.31
CB 121B	RIM = 374.00 INV OUT = 370.67
CB 122	RIM = 374.05 INV OUT = 370.90
DI 126	RIM = 366.55 INV OUT = 363.71
FES 100	INV IN = 363.00
FES 110	INV IN = 380.50
FES 115	INV OUT = 383.48
FES 120	INV IN = 369.84
FES 125	INV IN = 363.50

SCM 1 Outfall - Structure Table

Structure Name	Details
FES OS 100	INV IN = 359.00
OS 101	RIM = 362.00 INV OUT = 359.75

SCM 2 - Structure Table

Structure Name	Details
FES 203	INV IN = 361.50
YI 204	RIM = 366.26 INV OUT = 362.25

SCM 2 Outfall - Structure Table

Structure Name	Details
FES OS 200	INV IN = 357.00
OS 201	RIM = 359.46 INV OUT = 357.75

SCM 3 - Structure Table

Structure Name	Details
CB 301	RIM = 366.14 INV IN = 361.31 INV IN = 362.30 INV OUT = 361.21
CB 302	RIM = 366.04 INV IN = 361.64 INV IN = 361.64 INV OUT = 361.44
CB 302B	RIM = 366.04 INV IN = 361.78 INV OUT = 361.68
CB 303	RIM = 366.75 INV OUT = 362.60
CB 304	RIM = 366.98 INV IN = 362.25 INV OUT = 362.05
CB 305	RIM = 368.93 INV OUT = 364.89
CB 306	RIM = 368.91 INV IN = 364.58 INV OUT = 363.46
CB 307	RIM = 367.04 INV IN = 362.70 INV OUT = 362.50
CB 308	RIM = 367.09 INV IN = 363.34 INV IN = 363.24 INV OUT = 362.84
CB 309	RIM = 370.01 INV IN = 365.17 INV IN = 365.80 INV OUT = 364.97
CB 311	RIM = 373.03 INV IN = 367.25 INV OUT = 367.05
CB 312	RIM = 374.74 INV IN = 369.03 INV IN = 369.94 INV OUT = 368.83
CB 313	RIM = 374.73 INV OUT = 370.12
CB 315	RIM = 375.97 INV IN = 370.66 INV IN = 371.88 INV OUT = 370.16
CB 317	RIM = 376.54 INV IN = 371.91 INV IN = 372.86 INV OUT = 371.71
CB 318	RIM = 377.00 INV OUT = 373.00
CB 319	RIM = 377.02 INV IN = 373.45 INV OUT = 372.45
CB 321	RIM = 378.02 INV IN = 374.60 INV OUT = 374.00
CB 325	RIM = 378.78 INV IN = 375.27 INV OUT = 375.06
CB 330	RIM = 367.00 INV IN = 363.00 INV IN = 363.12 INV IN = 363.50 INV OUT = 362.43
CB 332	RIM = 367.03 INV OUT = 363.64
CB 333	RIM = 367.90 INV IN = 363.53 INV OUT = 363.33
CB 334	RIM = 368.63 INV IN = 364.16 INV OUT = 363.96
FES 300	INV IN = 360.94
FES 331	INV OUT = 363.78
FES 335	INV OUT = 365.40
YI 310	RIM = 370.35 INV OUT = 367.43
YI 316B	RIM = 376.09 INV OUT = 373.21
YI 325A	RIM = 379.46 INV OUT = 376.02

SCM 3 Outfall - Structure Table

Structure Name	Details
FES OS 300	INV IN = 357.00
OS 301	RIM = 360.00 INV OUT = 357.75

SCM 4 - Structure Table

Structure Name	Details
CB 401	RIM = 363.04 INV IN = 357.26 INV OUT = 357.07
CB 402	RIM = 363.02 INV IN = 357.60 INV IN = 357.60 INV OUT = 357.40
CB 403	RIM = 362.71 INV IN = 358.02 INV OUT = 357.82
CB 404	RIM = 362.73 INV IN = 358.79 INV OUT = 358.29
CB 405	RIM = 368.09 INV IN = 363.30 INV OUT = 362.29
CB 406	RIM = 372.03 INV OUT = 366.85
CB 407	RIM = 362.81 INV IN = 357.93 INV IN = 358.53 INV OUT = 357.83
CB 408	RIM = 362.39 INV IN = 358.68 INV IN = 358.49 INV OUT = 358.29
CB 408A	RIM = 361.81 INV OUT = 358.88
CB 409	RIM = 362.56 INV IN = 358.97 INV IN = 358.87 INV OUT = 358.67
CB 409A	RIM = 362.04 INV OUT = 359.11
CB 410	RIM = 365.52 INV IN = 360.58 INV IN = 360.45 INV OUT = 360.25
CB 410A	RIM = 365.51 INV IN = 360.69 INV OUT = 360.58
CB 411	RIM = 368.85 INV IN = 364.51 INV OUT = 364.31
CB 412	RIM = 369.03 INV IN = 364.95 INV OUT = 364.75
CB 413	RIM = 369.03 INV IN = 365.29 INV OUT = 365.08
CB 413B	RIM = 369.03 INV OUT = 365.35
FES 400	INV IN = 356.86
FES 407A	INV OUT = 358.91
FES 410	INV IN = 356.95
JB 410B	RIM = 366.18 INV IN = 361.46 INV OUT = 361.26
YI 410C	RIM = 363.50 INV OUT = 361.63
YI 421	RIM = 359.68 INV OUT = 357.35

SCM 4 Outfall - Structure Table

Structure Name	Details
FES OS 400	INV IN = 353.37
OS 401	RIM = 356.00 INV OUT = 353.75

SCM 5 - Structure Table

Structure Name	Details
CB 502	RIM = 357.04 INV IN = 351.06 INV IN = 353.30 INV OUT = 350.65
CB 503	RIM = 357.04 INV OUT = 353.44
CB 504	RIM = 366.04 INV IN = 361.37 INV IN = 362.27 INV OUT = 361.17
CB 505	RIM = 367.77 INV IN = 362.35 INV IN = 362.69 INV OUT = 361.85
CB 506	RIM = 367.48 INV IN = 362.69 INV OUT = 362.49
CB 507	RIM = 367.00 INV IN = 363.14 INV OUT = 362.94
CB 508	RIM = 367.00 INV IN = 363.48 INV OUT = 363.28
CB 510	RIM = 368.57 INV OUT = 364.24
CB 511	RIM = 368.61 INV IN = 364.00 INV IN = 363.62 INV OUT = 363.12
CB 513	RIM = 368.66 INV IN = 363.36 INV OUT = 363.16
CB 514	RIM = 374.03 INV IN = 370.15 INV OUT = 369.95
CB 515	RIM = 374.10 INV OUT = 370.43
CB 516	RIM = 371.63 INV IN = 367.70 INV OUT = 367.49
CB 517	RIM = 371.62 INV IN = 367.09 INV OUT = 366.59
FES 500	INV IN = 346.92
FES 516A	INV OUT = 368.29
YI 501	RIM = 350.87 INV IN = 347.35 INV OUT = 347.15
YI 501A	RIM = 352.03 INV IN = 347.61 INV IN = 347.82 INV OUT = 347.41
YI 501B	RIM = 351.82 INV IN = 348.45 INV OUT = 348.35
YI 501C	RIM = 353.32 INV OUT = 349.19
YI 513A	RIM = 367.63 INV OUT = 363.95

Bypass - Structure Table

Structure Name	Details
CB 421	RIM = 360.04 INV IN = 356.41 INV OUT = 356.28
CB 422	RIM = 360.04 INV OUT = 356.55
FES 420	INV IN = 356.16
FES 601	INV OUT = 370.00
FES 602	INV IN = 364.86
FES 700	INV OUT = 351.75
FES 701	INV IN = 350.75

SCM 5 Outfall - Structure Table

Structure Name	Details
FES OS 500	INV IN = 343.02
OS 501	RIM = 346.00 INV OUT = 343.75

Culvert Crossing - West - Structure Table

Structure Name	Details
EW 610	INV IN = 347.00
EW 612	INV IN = 347.00
HW 611	INV OUT = 348.00
HW 613	INV OUT = 348.00

Culvert Crossing - East - Structure Table

Structure Name	Details
EW 101	INV IN = 364.50
HW FES 603	INV OUT = 366.50
JB 602	RIM = 371.46 INV IN = 365.04 INV OUT = 364.84

AMERICAN Engineering
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919-469-1101

NORTH CAROLINA ENGINEERING CERTIFICATE OF AUTHORIZATION AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881

PRELIMINARY - DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER 36528 JACOB P. KLEIN

NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #3
3	06-02-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4
4	07-16-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #4 (OFFLINE)

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 07/16/2025

SHEET TITLE:

SCHEDULE

SHEET NO.:

C7.1

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

July 15, 2025

Z:\Jobs\21-002 Moody Development Tract (RJ)\00035\Revit_Working Dwgs\Construction Set\7.0 Schedule.dwg