CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL FOR THE PRESERVE AT MOODY FARM

1ST CD SUBMITTAL: 12-02-2024
2ND CD SUBMITTAL: 02-03-2025
3RD CD SUBMITTAL: 04-01-2025

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
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

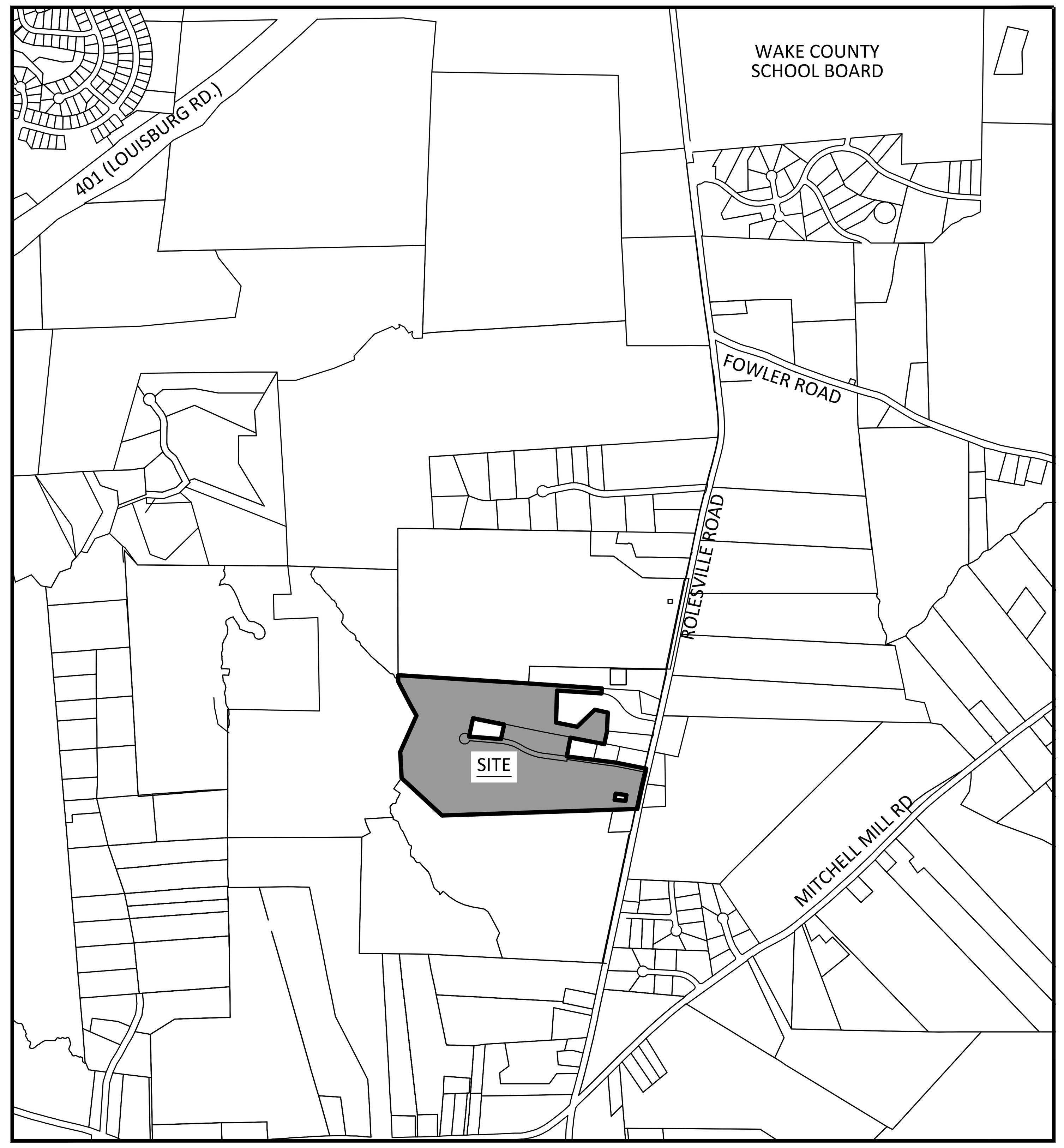
*SEWER MAINS AND MANHOLES AS PART OF A COLLECTION SYSTEM
**ENTIRE PROJECT FLOW. BASED ON 75 GPD PER BEDROOM FOR RESIDENTIAL (APARTMENTS, SINGLE FAMILY DWELLING, TOWNHOUSE, CONDOS), OR BASED ON 15A NCAC 0.2T.0114 WASTEWATER DESIGN FLOW RATES FOR COMMERCIAL AND INDUSTRIAL. THE METER SIZE MUST MACH DOMESTIC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

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'

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
TOWN OF ROLESVILLE CID	CID 24-09
WAKE COUNTY EROSION CONTROL	ESC-137379-2024
WAKE COUNTY STORMWATER	SWF-137381-2024
CITY OF RALEIGH WATER	TBD
CITY OF RALEIGH SEWER	TBD
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__________

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 08/23/17
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'

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 www.nc811.org
*** 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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:02-04'00'

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

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

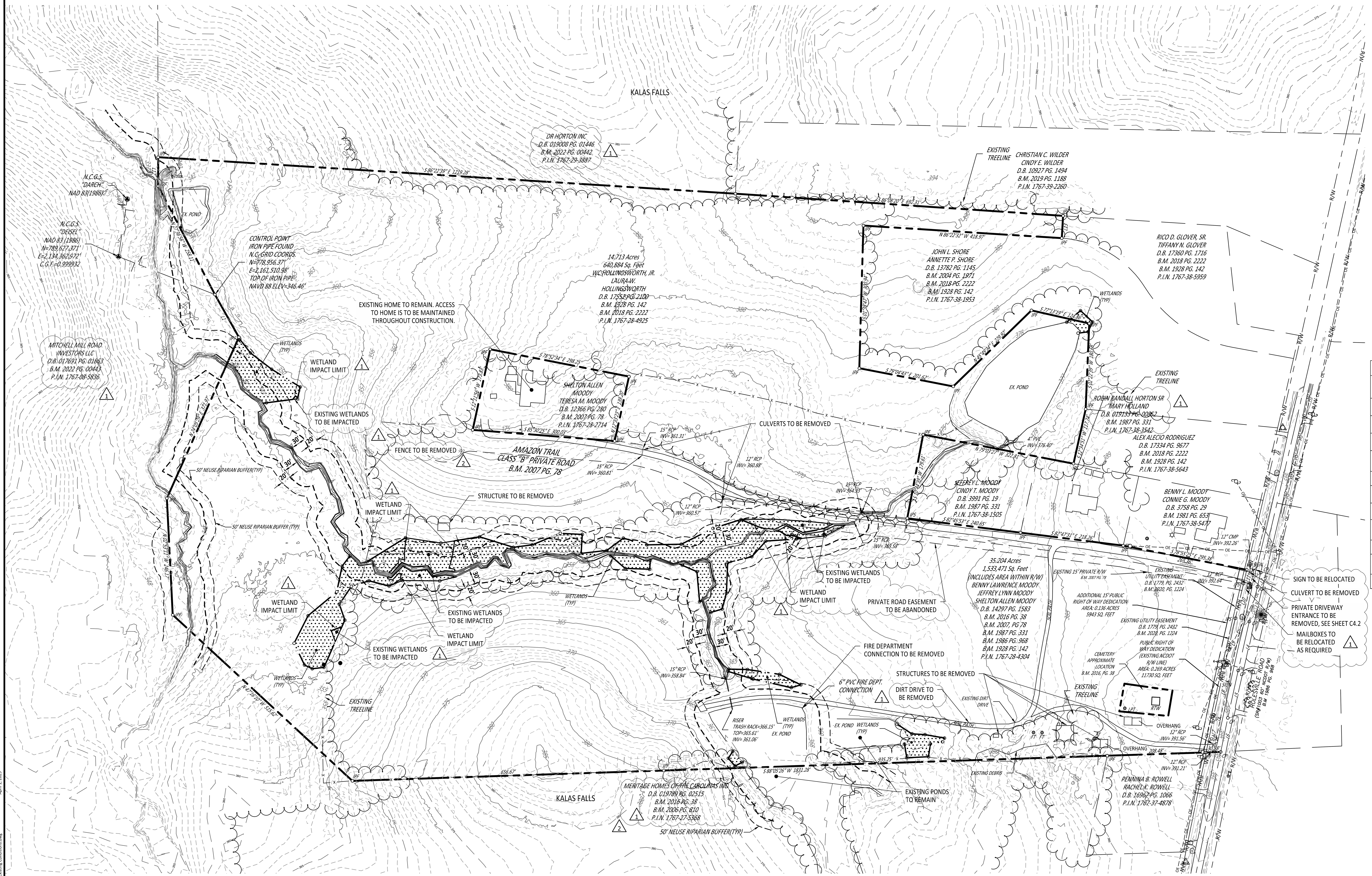
STIPULATION FOR REUSE

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
COVER

SHEET NO.:
CVR



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'

EXISTING LEGEND	
	WETLANDS AREA
	EXISTING BOUNDARY
	EXISTING TREE LINE
	EXISTING TOPOGRAPHY
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	TOP OF CREEK
	BOTTOM OF CREEK
	POND ELEVATION BOUNDARY
	EXISTING STORM PIPE
	EXISTING ROAD EASEMENT
	EXISTING BUILDING

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.

North Carolina 811
*** 3 Days Before Digging ***
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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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:09-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 56528 JAKOB P. KLEIN

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

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

OVERALL EXISTING CONDITIONS AND DEMOLITION PLAN

SHEET NO.:

C1.0

GENERAL NOTES:

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:

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 ENVIRONMENTAL CONSULTANT, OBTAIN LAND DISTURBING PERMIT.
3. ENSURE THAT ALL LIMITS OF DISTURBANCE, SURFACE WATERS, AND RIPARIAN BUFFERS ARE FLAGGED PRIOR TO INSTALLATION OF EROSION CONTROL MEASURES. WETLANDS PRESENT ON SITE, UNLESS APPROVED WITHIN PROJECT ENVIRONMENTAL PERMITTING, ARE NOT TO BE IMPACTED DURING CONSTRUCTION ACTIVITIES.
4. TREE PROTECTION FENCES, SILT FENCES AND CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS SHOWN ON THE EROSION CONTROL PLANS. 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 ALL RESULTING BARE AREAS IMMEDIATELY AFTER CONSTRUCTION/INSTALLATION.
5. CALL FOR INSPECTION BY THE ENVIRONMENTAL CONSULTANT, PROCEED TO STAGE 2 EROSION AND SEDIMENT CONTROL ACTIVITIES ONLY ONE APPROVAL IS GRANTED.

STAGE 2 E&SC CONSTRUCTION SEQUENCE:

1. CONSTRUCT SCMS #1-#5 AS SEDIMENT BASINS BY OMITTING FOREBAY DIVIDERS AND CONNECTING SKIMMERS TO THE CONTROL STRUCTURES. THE FINAL PIPE(S) AND CONTROL STRUCTURE(S) FOR EACH POND ARE TO BE INSTALLED WITH THE STAGE 2 EROSION AND SEDIMENT CONTROL PLAN. SEE PROJECT CD PLAN SET FOR REQUIRED SCM DESIGN ELEVATIONS AND CALCULATIONS. SEE EROSION AND SEDIMENT CONTROL PLAN SHEETS C3.5 THROUGH C3.9 FOR MORE DETAIL. ANY INLET(S) INSTALLED SHOULD HAVE INLET PROTECTION INSTALLED IMMEDIATELY AS SEEN IN THE PROJECT CD PLAN SET. THE SEDIMENT BASINS SHALL BE FULLY CONSTRUCTED PRIOR TO THE INSTALLATION OF ANY TEMPORARY DIVERSION DITCHES. ANY PIPE INSTALLATION SHALL BE EXCAVATED, INSTALLED, AND BACKFILLED WITHIN A SINGLE WORKING DAY.
2. INSTALL ANY APPLICABLE RIP RAP DISSIPATORS SEEN WITHIN THE CD SET FOR THE STAGE 2 EROSION AND SEDIMENT CONTROL PLAN.
3. INSTALL TEMPORARY DIVERSION DITCHES #1 THROUGH #4 AS SEEN IN THE CD PLAN SET TO CONVEY SEDIMENT AND RUN OFF TO RESPECTIVE SEDIMENT BASINS. INSTALL RECOMMENDED LINER AND SEED/STABILIZE DENUDED GROUND IMMEDIATELY FOLLOWING DIVERSION DITCH INSTALLATION.
4. CONTRACTOR TO INSTALL BRIDGE MAT AS SHOWN ON EROSION AND SEDIMENT CONTROL PLANS FOR CREEK CROSSING. SEE "CONSTRUCTION SEQUENCE FOR THE 54" RCP CULVERT CROSSING" BELOW AND ON SHEET C8.5 FOR DETAILED CREEK CROSSING CONSTRUCTION SEQUENCE.
5. CALL FOR INSPECTION BY THE ENVIRONMENTAL CONSULTANT, PROCEED TO STAGE 3 EROSION AND SEDIMENT CONTROL ACTIVITIES ONLY ONE APPROVAL IS GRANTED.
6. ADDITIONAL MEASURES OR DITCH EXTENSIONS MAY BE REQUIRED BY THE ENVIRONMENTAL CONSULTANT TO ROUTE RUNOFF TO SEDIMENT BASINS BASED ON FIELD CONDITIONS. THESE MEASURES SHALL BE INSTALLED UPON THE INSPECTOR'S DETERMINATION.

STAGE 3 E&SC CONSTRUCTION SEQUENCE:

1. GENERAL SITE GRADING MAY BEGIN.
2. INSTALL STORM DRAINAGE PIPE SYSTEMS AS SEEN IN THE CD SET. INSTALLATION SHOULD BE DONE IN THE MANAGEABLE SERIES. ANY SERIES OF PIPE AND STRUCTURE INSTALLATION(S) SHALL BE DONE SO THAT TRENCHING/EXCAVATION THAT IS PERFORMED THAT DAY IS ABLE TO HAVE BEDDING PREPARED, PIPE INSTALLED AND BACKFILLED WITHIN THE SAME WORKING DAY. DENUDED AREAS SHOULD BE STABILIZED IMMEDIATELY.
3. AS EACH CATCH BASIN OR YARD INLET IS INSTALLED, IT SHALL HAVE INLET PROTECTION INSTALLED. THIS IS TO REMAIN IN PLACE AND BE MAINTAINED PERIODICALLY UNTIL FINAL SITE INSPECTION IS APPROVED.
4. INSTALL ANY APPLICABLE RIP RAP DISSIPATORS SEEN WITHIN THE CD SET FOR THE STAGE 3 EROSION AND SEDIMENT CONTROL PLAN.
5. CLEAN SEDIMENT BASINS WHEN ONE-HALF FULL.
6. SEED AND MULCH DENUDED AREA INCLUDING ANY CUT/FILL SLOPES WITHIN FOURTEEN (14) DAYS AFTER FINISHED GRADES ARE ESTABLISHED.
7. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND IS ESTABLISHED.
8. UTILITIES (WATER, ELECTRIC, GAS, CABLE TV, TELEPHONE, ETC.) WILL BE INSTALLED DURING THIS PHASE.
9. WHEN ALL CONTRIBUTING AREAS ARE STABILIZED, OBTAIN APPROVAL FROM THE ENVIRONMENTAL CONSULTANT TO CONVERT THE SEDIMENT BASINS (SB) TO PERMANENT STORMWATER CONTROL MEASURES (SCM). SEE RECOMMENDED INSTRUCTIONS TO CONVERT SEDIMENT BASINS TO PERMANENT STORMWATER CONTROL MEASURES ON THIS SHEET OF THE PROJECT CONSTRUCTION DRAWINGS.
10. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
11. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCES, ETC.. AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATERS SHOULD BE INSTALLED.
12. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN CERTIFICATE OF COMPLETION.

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 OF 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 PROFESSIONAL ENGINEER SEAL 045268 JAKOB P. KLEIN
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION
Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:10-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

NO.	DATE	REVISION:
1	02.03.2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1
2	04.01.2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2

STIPULATION FOR REUSE

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
GENERAL NOTES

SHEET NO.:
C2.0

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).

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:11-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045281 JAKOB P. KLEIN

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

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

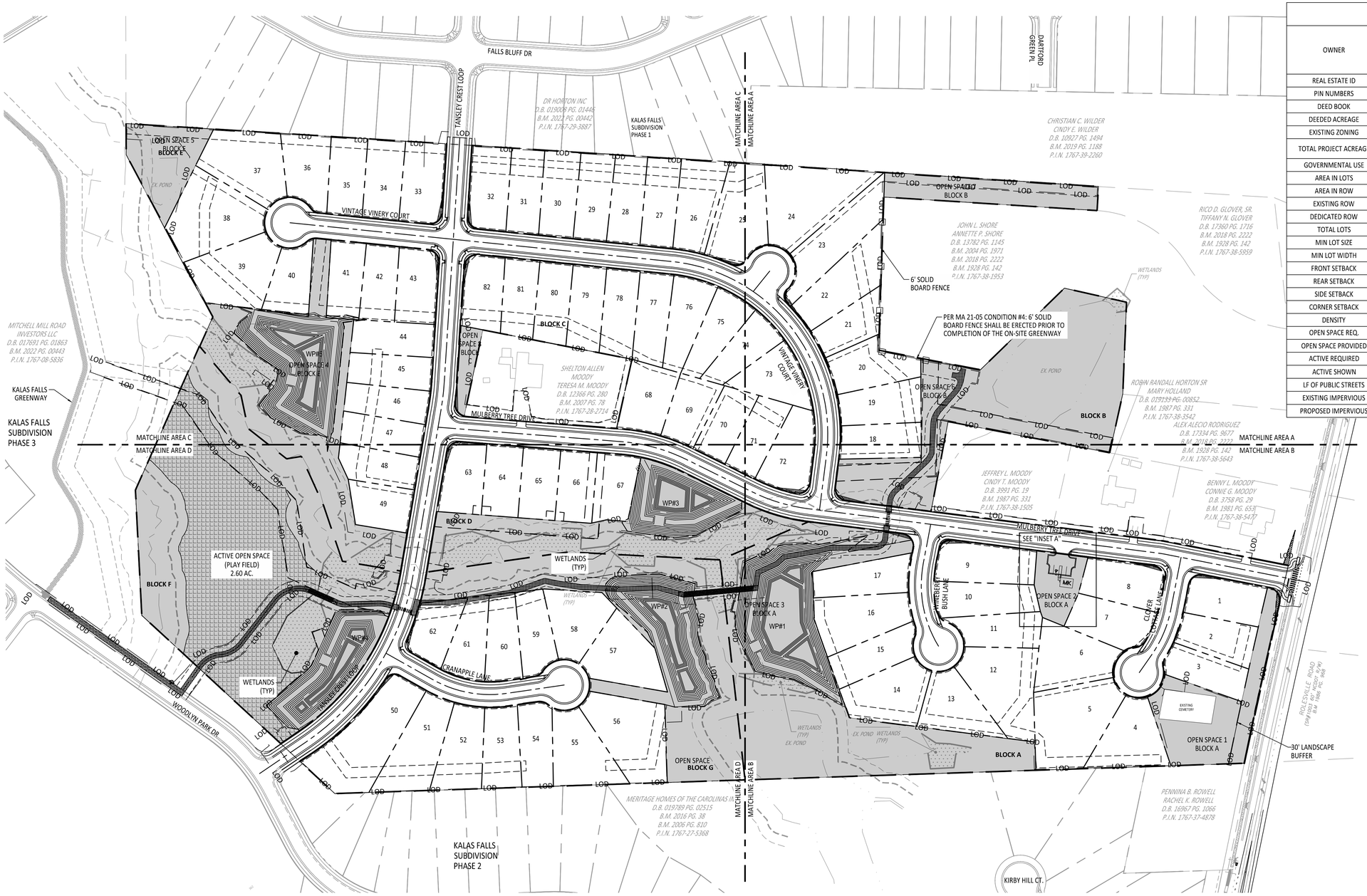
STIPULATION FOR REUSE

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
GENERAL NOTES

SHEET NO.:
C2.1



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	49.92 AC
GOVERNMENTAL USE	0.48 AC
AREA IN LOTS	24.38 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
EXISTING IMPERVIOUS	0.69 AC
PROPOSED IMPERVIOUS	14.86 AC

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

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.

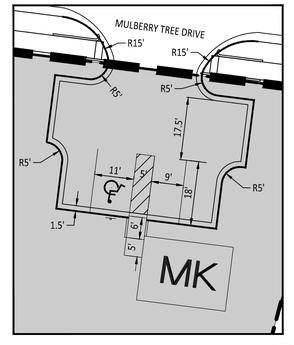
PROPOSED IMPERVIOUS AREA	
DRIVEWAYS	1.24 AC
PARKING LOT	0.73 AC
ROADWAY	3.89 AC
LOTS	8.12 AC
SIDEWALK	0.88 AC
TOTAL	14.86 AC

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

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

INSET A



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20

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Raleigh, NC 27607
919-469-1101

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:12-04'00'

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

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

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 & SM
DATE: 02/03/2025

SHEET TITLE:

OVERALL SITE PLAN

SHEET NO.:

C4.0

Z:\Jobs\21-002 Moody Development Tract (#21000)\Dwgs_Working Dwgs\Construction Set\4.0-4.6 Site Plan.dwg April 1, 2025

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 15'; 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

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

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NORTH CAROLINA
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C-3881
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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 & SM
DATE: 02/03/2025

SHEET TITLE:
SITE PLAN A

SHEET NO.:
C4.1

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

April 1, 2025
Z:\Jobs\21-002 Moody Development Tract (R2100023)\dwg_Working Dwgs\Construction Set\4.0-4.6 Site Plan.dwg

MATCHLINE AREA C
MATCHLINE AREA D

MATCHLINE AREA A
MATCHLINE AREA B

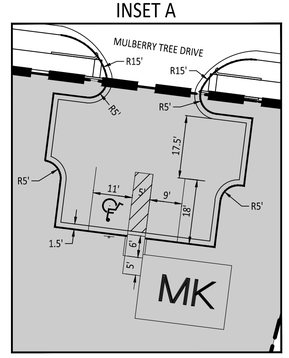
NOTE: OFFSITE IMPROVEMENTS SHOWN ARE CURRENTLY UNDER CONSTRUCTION AND NCDOT APPROVED ON JUNE 5th AS A PART OF E051-092-24-00303. THE PRESERVE AT MOODY FARM NCDOT IMPROVEMENTS ONLY INCLUDE AN UPDATED DRIVEWAY (IN SAME LOCATION AS EXISTING) AND A WATER CONNECTION.

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

INSET A



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

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

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Date: 2025.04.01 17:41:14-04'00'

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

STIPULATION FOR REUSE

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

SITE PLAN B

SHEET NO.:

C4.2

April 1, 2025

Z:\Jobs\21-002 Moody Development Trust (P210002)\dwg_Working Dwgs\Construction Set\4.0-4.6 Site Plan.dwg

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

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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NORTH CAROLINA PROFESSIONAL ENGINEER 56528 JAKOB P. KLEIN

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

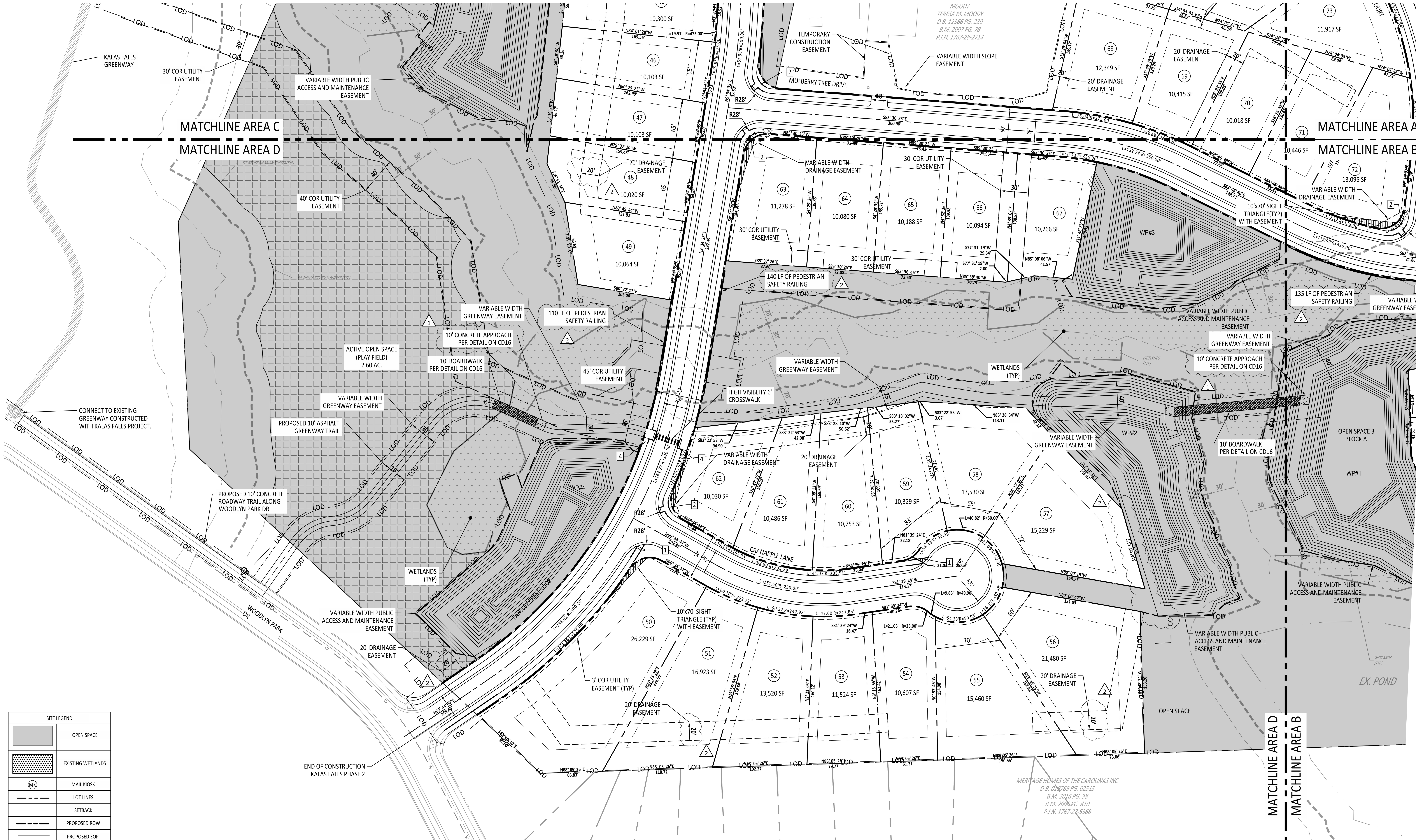
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

SITE PLAN C

SHEET NO.:

C4.3



SITE LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
	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

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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Date: 2025.04.01 17:41:16-04'00'

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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 & SM
DATE: 02/03/2025

SHEET TITLE:

SITE PLAN D

SHEET NO.: C4.4

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

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AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

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36528
JAKOB P. KLEIN

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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 & SM
DATE: 02/03/2025

SHEET TITLE:

PHASING PLAN

SHEET NO.:

C4.5

April 1, 2025
Z:\Jobs\21-002 Moody Development Tract (#210002)\Final_Working Dwgs\Construction Set\4.0-4.6 Site Plan.dwg

SITE INFORMATION	
TOTAL PROJECT ACREAGE	49.92 AC
GOVERNMENTAL USE	0.48 AC
AREA IN LOTS	24.38 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

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

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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 & SM
DATE: 02/03/2025

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

SITE LEGEND	
[shaded]	OPEN SPACE
[stippled]	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

NOTE: SEE DRAINAGE 50 SCALE SHEETS FOR STORMWATER STRUCTURE LABELS.

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch =100

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:19-04'00'

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

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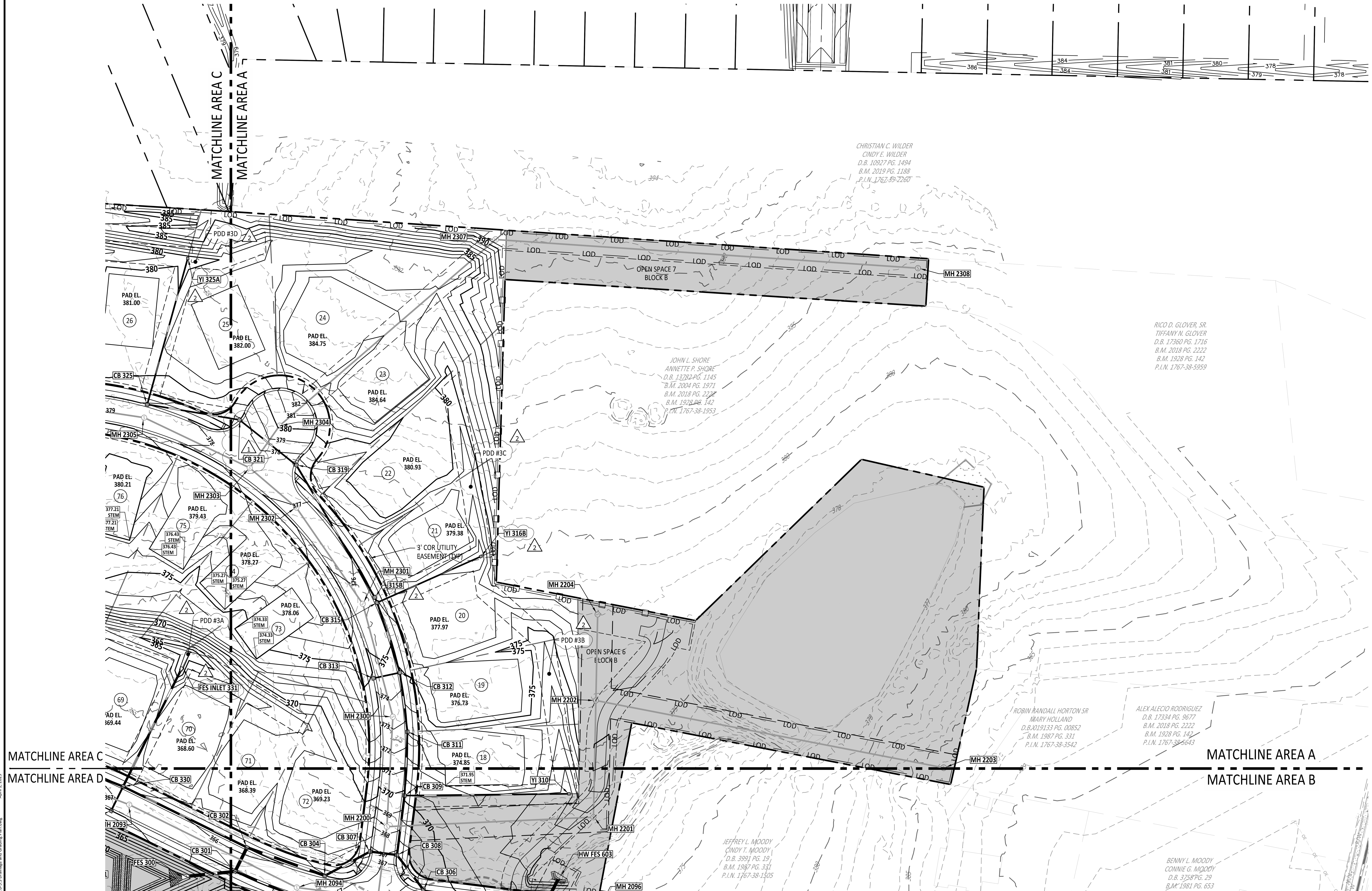
THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
OVERALL DRAINAGE PLAN

SHEET NO.:
C5.0

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\5.0-5.3 Drainage and Grading Plan.dwg April 1, 2025



NOTE: PDD IS PERMANENT DIVERSION DITCH

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

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STIPULATION FOR REUSE

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

DRAINAGE PLAN A

SHEET NO.: C5.1

April 1, 2025

GRAPHIC SCALE

50 0 25 50 100 200

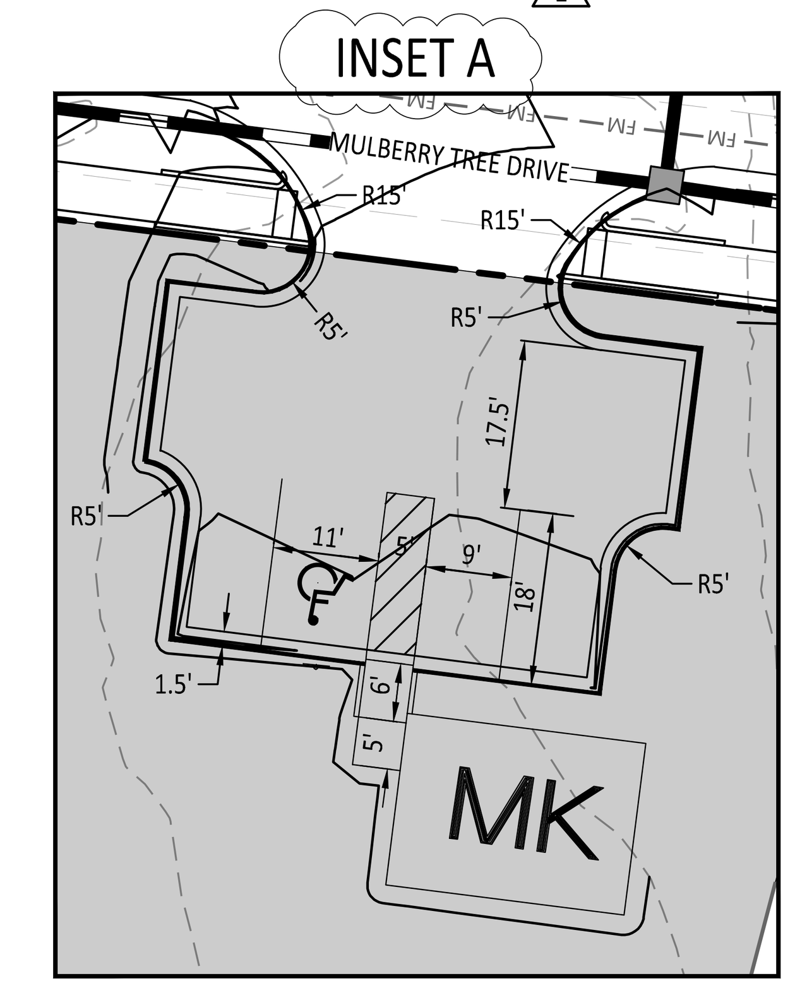
(IN FEET)
1 inch = 50

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

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.

NOTE: PDD IS PERMANENT DIVERSION DITCH

INSET A



NOTE: SPOT ELEVATIONS WITHIN PARKING LOT ARE ALONG THE EOP

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:22-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

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

STIPULATION FOR REUSE

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

DRAINAGE PLAN B

SHEET NO.:

C5.2

April 1, 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

MATCHLINE AREA C
MATCHLINE AREA D

MATCHLINE AREA A
MATCHLINE AREA B

NOTE: PDD IS PERMANENT DIVERSION DITCH

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
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:23-04'00'

PRELIMINARY
NOT RELEASED FOR CONSTRUCTION
DO NOT USE FOR CONSTRUCTION
PROFESSIONAL ENGINEER
045528
JAKOB P. KLEIN

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

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 & SM
DATE: 02/03/2025

SHEET TITLE:

DRAINAGE PLAN C

SHEET NO.:

C5.3

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

MATCHLINE AREA C

MATCHLINE AREA D

MATCHLINE AREA A

MATCHLINE AREA B

NOTE: PDD IS PERMANENT DIVERSION DITCH

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

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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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:24-04'00'

PRELIMINARY
- DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 052538 JAKOB P. KLEIN

NO.	DATE	REVISION:
1	02.03.2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1
2	04.01.2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2

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 & SM
DATE: 02/03/2025

SHEET TITLE:

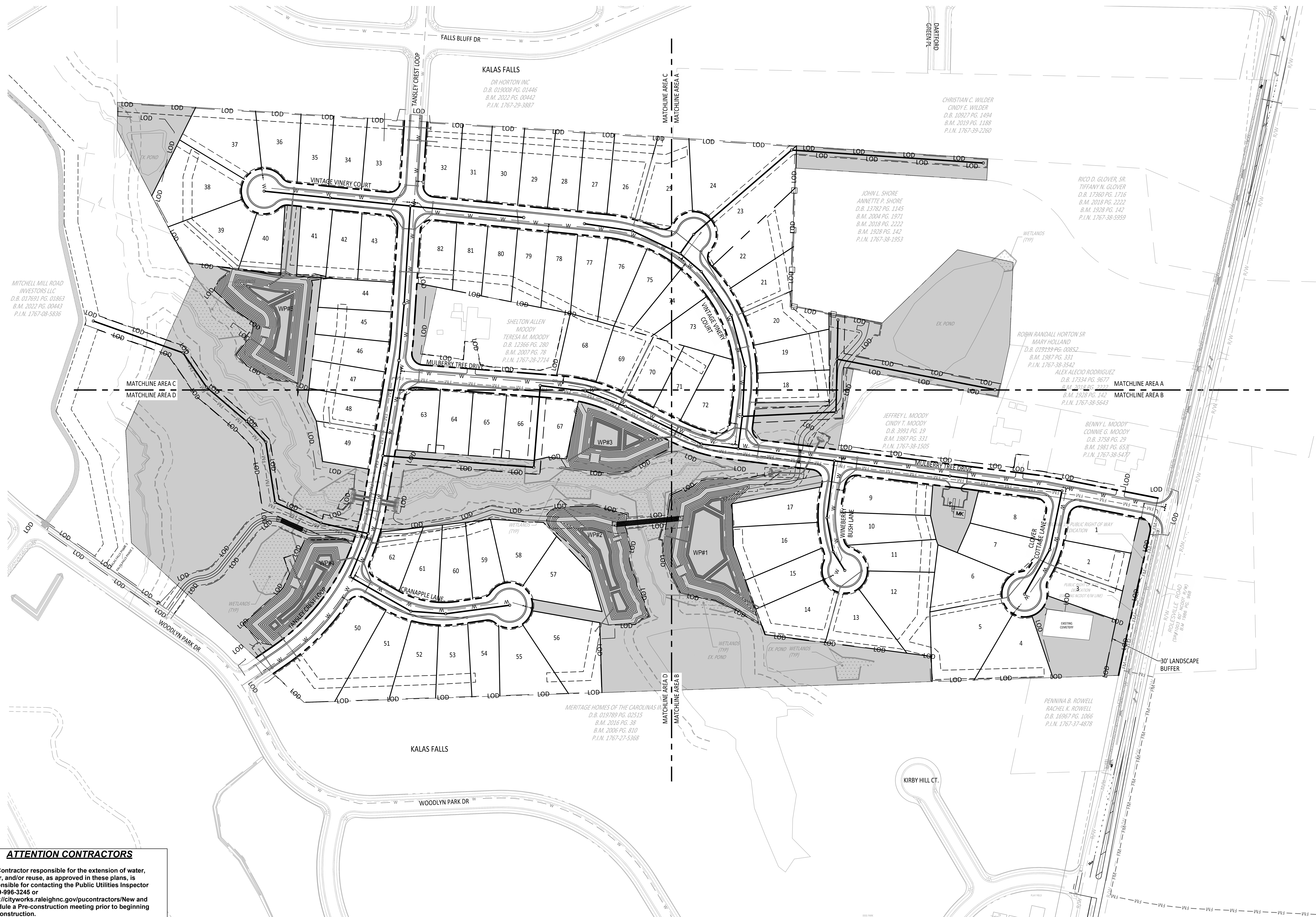
DRAINAGE PLAN D

SHEET NO.:

C5.4

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 (R3100072)\dwg_ Working Dwgs\Construction Set\5.0-5.3 Drainage and Grading Plan.dwg April 1, 2025



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
SEWER	PROPOSED SEWERLINE
	PROPOSED MANHOLE
	PROPOSED MANHOLE
	PROPOSED WATER METER
	PROPOSED SEWER SERVICE

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.

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.

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
www.nc811.org
*** 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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:25-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

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

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

JOB NUMBER:	21-002
CHECKED BY:	JK
DRAWN BY:	RC & SM
DATE:	02/03/2025

SHEET TITLE:
OVERALL UTILITIES PLAN

SHEET NO.:
C6.0

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:26-04'00'

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

MATCHLINE AREA C
MATCHLINE AREA A
MATCHLINE AREA D
MATCHLINE AREA B

20' DRAINAGE EASEMENT
LOD
YI 325A
MH 2307
MH 2308
OPEN SPACE 7
BLOCK B
20' COR UTILITY EASEMENT
VARIABLE WIDTH DRAINAGE EASEMENT
CB 325
CB 321
MH 2304
4" BOA
4" G.V.
MH 2305
DIP WATERLINE
CB 319
MH 2303
8"x 4" TEE WITH
2-8" GATE VALVE
AND 4" GATE VALVE
MH 2302
FH
315B
CB 315
MH 2301
3' COR UTILITY EASEMENT
GREENWAY EASEMENT
MH 2204
OPEN SPACE 6
LOCK B
VARIABLE WIDTH GREENWAY EASEMENT
30' COR UTILITY EASEMENT
MH 2202
MH 2203
FES INLET 331
CB 313
CB 312
MH 2300
CB 311
CB 330
CB 302
MH 2200
CB 304
CB 309
YI 310
MH 2201
CB 308
CB 306
30' DRAINAGE EASEMENT
CB 301
CB 307
FES 300
HW FES 603
8"x 6" TEE WITH
2-8" GATE VALVE
SEWR FM BY OTHERS
8" DIP WATERLINE
EX. POND
WETLANDS (TYP)
SEE NOTE THIS SHEET

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. 1767-38-6477

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

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

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

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

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.

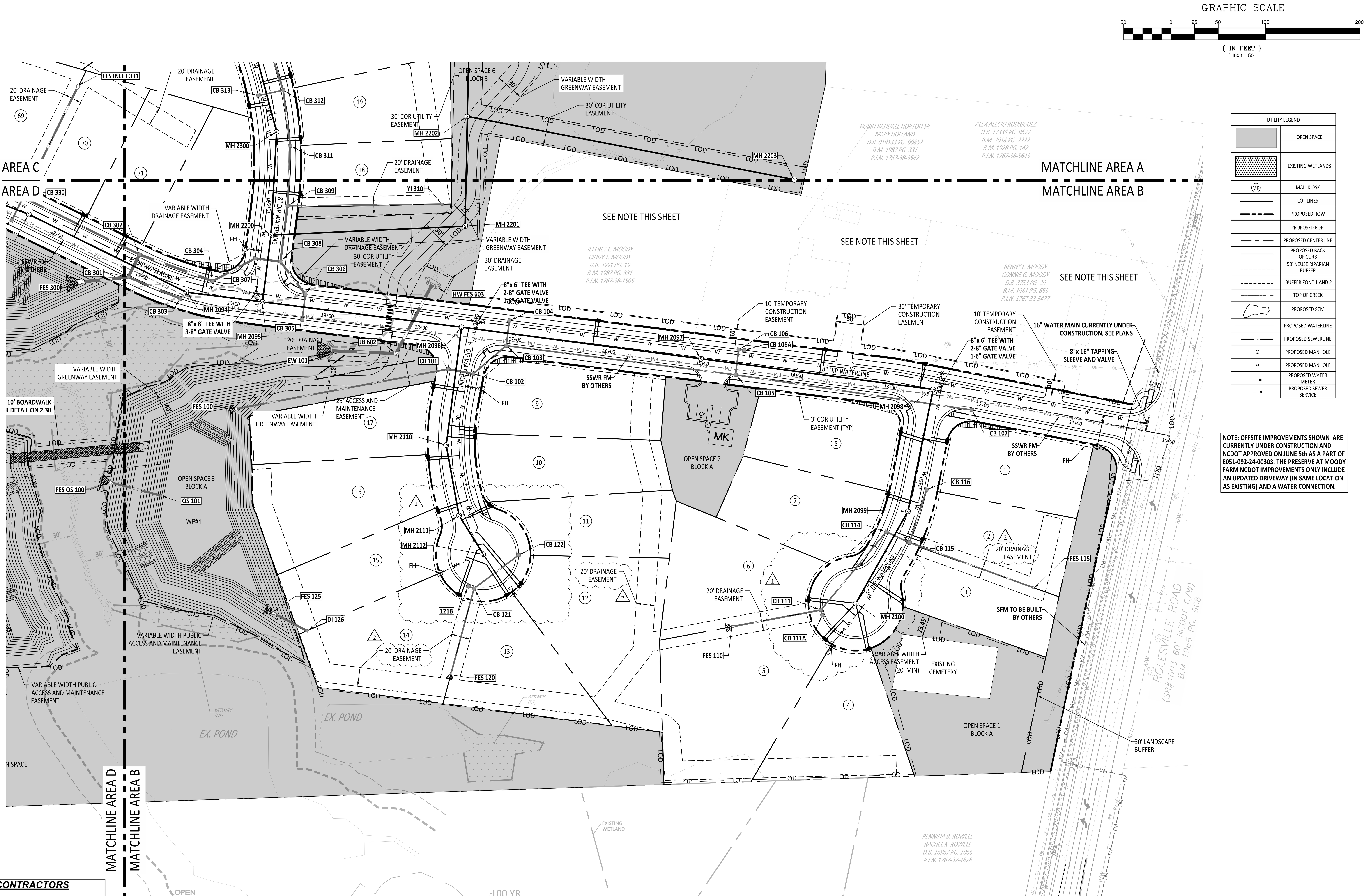
THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
UTILITY PLAN A

SHEET NO.:
C6.1

April 1, 2025
Z:\Jobs\21-002 Moody Development Trust (P210002)\dwg_Working Dwgs\Construction Set\6.0 Utilities Plan.dwg



GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50
MATCHLINE AREA C
MATCHLINE AREA D
MATCHLINE AREA A
MATCHLINE AREA B
SEE NOTE THIS SHEET
OPEN SPACE 6 BLOCK B
VARIABLE WIDTH GREENWAY EASEMENT
30' COR UTILITY EASEMENT
20' DRAINAGE EASEMENT
VARIABLE WIDTH DRAINAGE EASEMENT
8" DIP WATERLINE
SSWR FM BY OTHERS
8"x 6" TEE WITH 2-8" GATE VALVE 1-6" GATE VALVE
8"x 8" TEE WITH 3-8" GATE VALVE
10' TEMPORARY CONSTRUCTION EASEMENT
30' TEMPORARY CONSTRUCTION EASEMENT
16" WATER MAIN CURRENTLY UNDER CONSTRUCTION, SEE PLANS
8"x 16" TAPPING SLEEVE AND VALVE
25' ACCESS AND MAINTENANCE EASEMENT
3' COR UTILITY EASEMENT (TYP)
10' BOARDWALK
OPEN SPACE 3 BLOCK A
WP#1
OPEN SPACE 2 BLOCK A
MK
OPEN SPACE 1 BLOCK A
EXISTING CEMETERY
VARIABLE WIDTH ACCESS EASEMENT (20' MIN)
VARIABLE WIDTH PUBLIC ACCESS AND MAINTENANCE EASEMENT
SFM TO BE BUILT BY OTHERS
30' LANDSCAPE BUFFER
EX. POND
ROLESVILLE ROAD (SR#1003 60' NCDOT R/W) B.M. 1986 PG. 968
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. 1767-38-5643
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. 1767-38-5477
PENNINA B. ROWELL RACHEL K. ROWELL D.B. 16967 PG. 1066 P.I.N. 1767-37-4876
EXISTING WETLAND
100 YR
MATCHLINE AREA D
MATCHLINE AREA B

UTILITY LEGEND

Symbol	Description
	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: 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.

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

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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 www.nc811.org
*** 3 Days Before Digging ***
North Carolina 811
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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
Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:27-04'00'

PRELIMINARY DO NOT USE FOR CONSTRUCTION

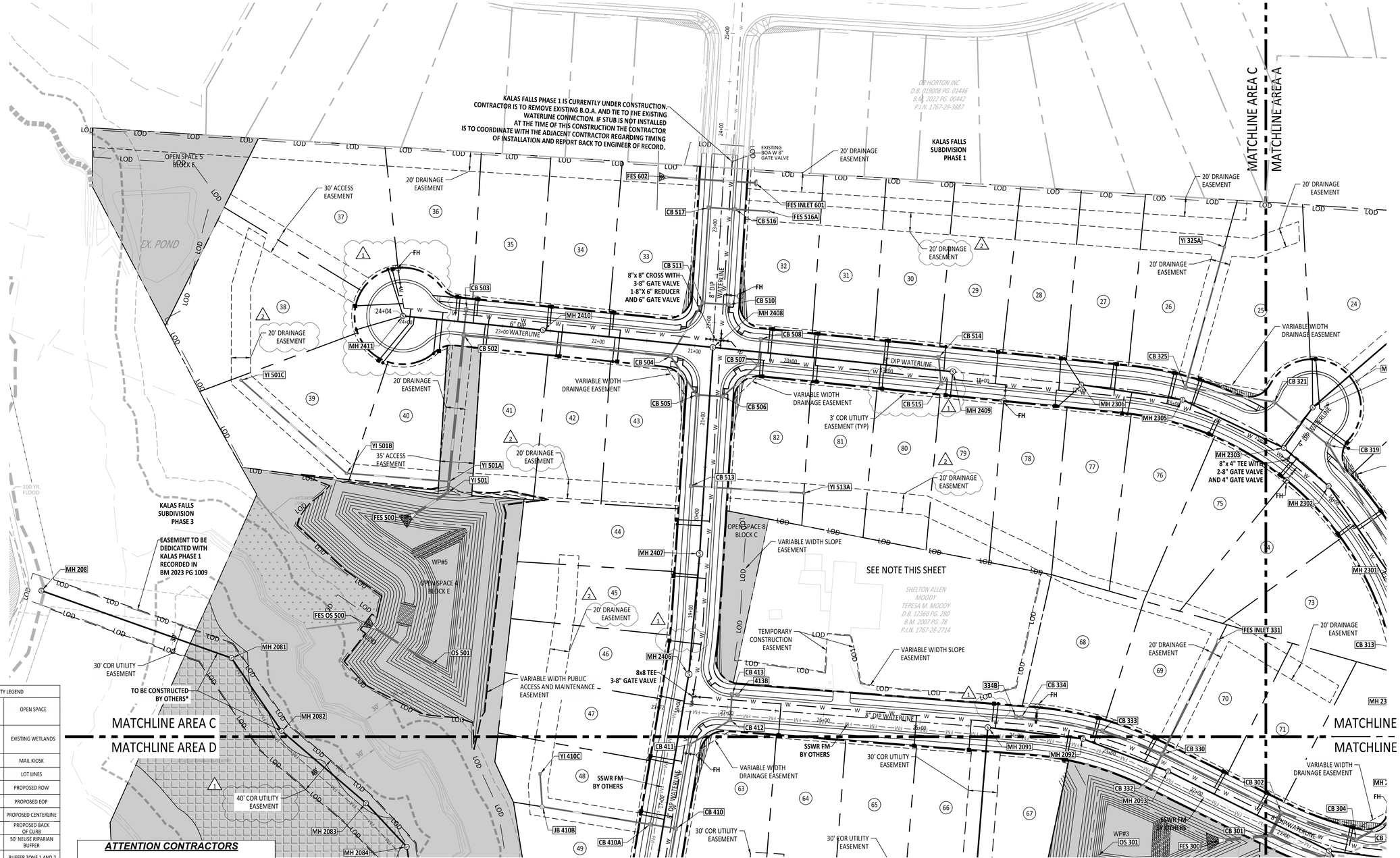
NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
UTILITY PLAN B

SHEET NO.:
C6.2



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

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
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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 CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:28-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 052628 JAKOB P. KLEIN

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

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

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 & SM
DATE: 02/03/2025

SHEET TITLE:

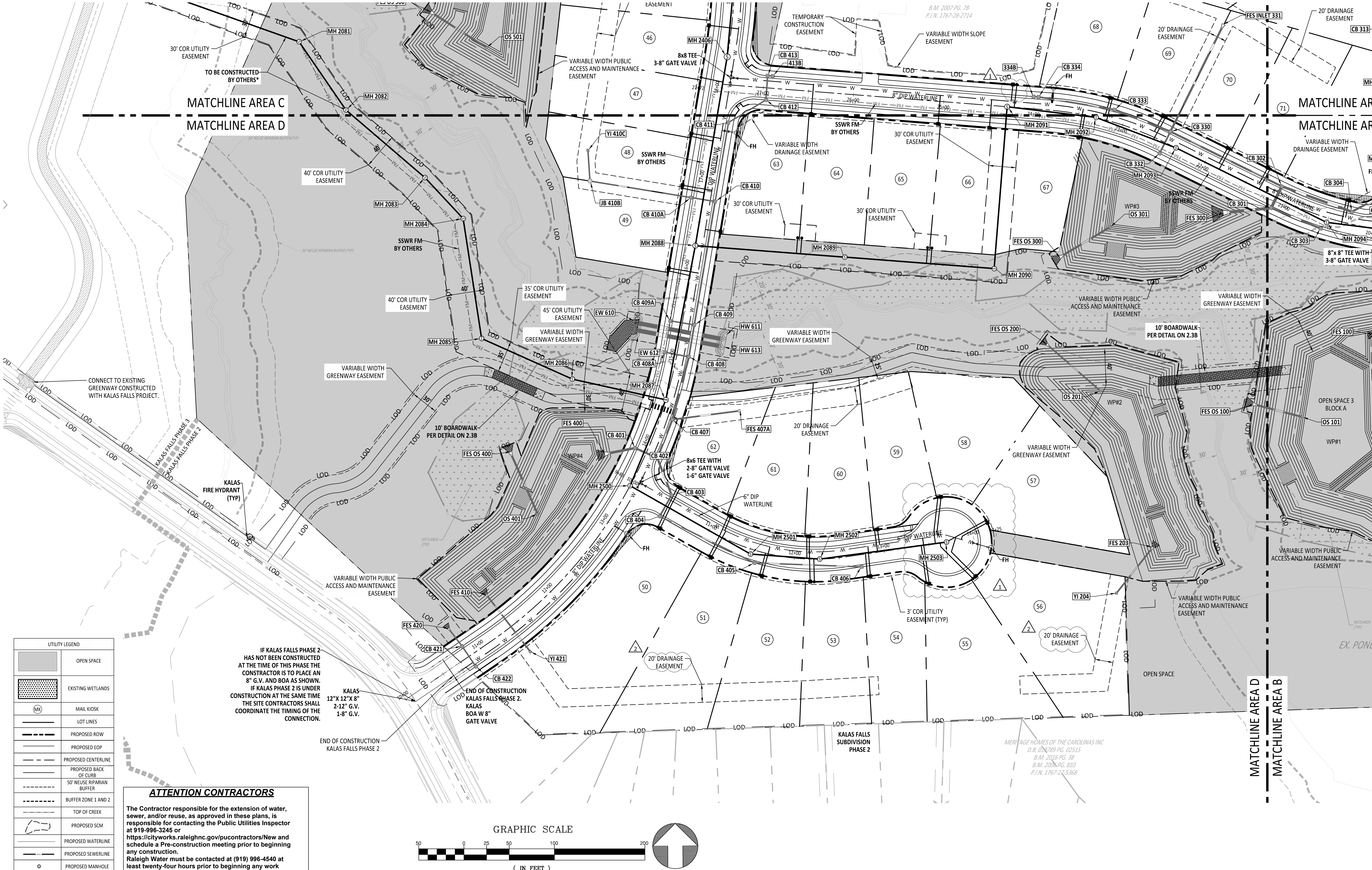
UTILITY PLAN C

SHEET NO.:

C6.3

April 1, 2025

Z:\Jobs\21-002 Moody Development Tract II\210002\Awg_Working Dwg\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

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
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City of Raleigh
Public Utilities Department Permit # ____________

North Carolina 811
www.nc811.org
*** 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

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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 & SM
DATE: 02/03/2025

SHEET TITLE:

UTILITY PLAN D

SHEET NO.: C6.4

RIP RAP DISSIPATER CALCULATIONS 10-YEAR STORM

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	6.40	B	12	2	7	3	9	6
FES 125	24	3.36	B	12	3	11	4	12	8
FES OS 100	24	2.99	B	12	3	11	4	12	8
FES 110	18	3.65	B	12	2	7	3	9	5
FES 120	15	2.45	B	12	2	7	2.5	7.5	5
EW 101	36	4.69	I	18	13	30	6	18	12
FES OS 200	18	1.12	B	12	2	7	3	9	6
FES 203	18	2.53	B	12	2	7	3	9	6
FES 300	36	3.54	I	18	10	23	6	18	12
FES OS 300	24	8.21	I	18	4	12	4	12	8
FES 400	24	3.26	B	12	3	11	4	12	8
FES OS 400	24	6.40	B	12	3	11	4	12	8
FES 410	18	3.71	B	12	2	7	3	9	6
FES 420	15	0.49	B	12	2	7	2.5	7.5	5
FES 500	30	5.26	B	12	5	16	5	15	10
FES OS 500	24	3.88	B	12	3	11	4	12	8
FES 602	18	4.12	B	12	3	10	3	9	6
EW 610	54 (DBL)	7.33	I	18	40	75	16	16	40

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 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^3)	RECOMMENDED LINER	LINER ALLOWABLE τ (LBS/FT^3)
1A	3.90	1.30	12	2	3.49	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	0.76	3.00	9	1.5	3.22	2.81	AM. EXCELSIOR CO; CURLEX HV; 2 NETS	3.00
3A	2.39	1.84	9	1.5	3.47	1.72	AM. EXCELSIOR CO; CURLEX II.98; 2 NETS	2.00
3B	0.58	3.43	9	1.5	3.16	3.21	PROFILE/ENKAMAT; 7003	5.00
3C	0.59	1.64	9	1.5	2.42	1.54	AM. EXCELSIOR CO; CURLEX II.98; 2 NETS	2.00
3D	0.72	1.00	9	1.5	2.10	0.94	SEED & MULCH	1.50
4A	1.33	2.73	9	1.5	3.58	2.56	AM. EXCELSIOR CO; CURLEX HV; 2 NETS	3.00
4B	1.03	1.11	9	1.5	2.43	1.04	SEED & MULCH	1.50
5A	1.42	3.16	9	1.5	3.69	2.96	AM. EXCELSIOR CO; CURLEX HV; 2 NETS	3.00
5B	0.73	1.46	9	1.5	2.47	1.37	SEED & MULCH	1.50
5C	0.75	3.85	9	1.5	3.52	3.60	PROFILE/ENKAMAT; 7003	5.00
5D	1.42	0.70	12	2	0.94	0.87	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	2.86	5.00	9	1.5	5.79	4.68	PROFILE/ENKAMAT; 7003	5.00

NOTE: ALL PERMANENT DIVERSION DITCHES (TDD) ARE TRAPEZOIDAL.
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 DITCH NOMENCLATURE ON GRADING ENLARGEMENT SHEETS WITHIN THE PLANSET.

2

SSWR - STRUCTURE TABLE

STRUCTURE NAME:	DESCRIPTION	PIPES IN:	PIPES OUT
MH 208	SSWR MH 4' RIM = 342.80 INV IN = 334.53	8" PVC INV.=334.53	
MH 2081	SSWR MH 4' RIM = 346.57 INV IN = 335.99 INV OUT = 335.79	8" PVC INV.=335.99	8" PVC INV.=335.79
MH 2082	SSWR MH 4' RIM = 347.52 INV IN = 338.24 INV OUT = 338.04	8" PVC INV.=338.24	8" PVC INV.=338.04
MH 2083	SSWR MH 4' RIM = 347.50 INV IN = 340.17 INV OUT = 339.97	8" PVC INV.=340.17	8" PVC INV.=339.97
MH 2084	SSWR MH 4' RIM = 348.65 INV IN = 341.01 INV OUT = 340.81	8" PVC INV.=341.01	8" PVC INV.=340.81
MH 2085	SSWR MH 4' RIM = 352.24 INV IN = 341.94 INV OUT = 341.74	8" PVC INV.=341.94	8" PVC 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" PVC 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" PVC 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" PVC INV.=351.18	8" PVC 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" PVC INV.=356.02
MH 2092	SSWR MH 4' RIM = 367.80 INV IN = 357.02 INV OUT = 356.82	8" PVC 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" PVC INV.=357.69	8" PVC INV.=357.49
MH 2094	SSWR MH 4' RIM = 366.59 INV IN = 358.90 INV OUT = 358.70	8" PVC INV.=358.90	8" PVC INV.=358.70
MH 2095	SSWR MH 4' RIM = 367.73 INV IN = 359.71 INV IN = 359.51 INV OUT = 359.31	8" PVC INV.=359.71 8" PVC INV.=359.51	8" PVC INV.=359.31
MH 2096	SSWR MH 4' RIM = 373.78 INV IN = 363.42 INV IN = 364.03 INV OUT = 362.33	8" PVC INV.=363.42 8" PVC INV.=364.03	8" PVC INV.=362.33
MH 2097	SSWR MH 4' RIM = 381.39 INV IN = 372.29 INV OUT = 372.09	8" PVC INV.=372.29	8" PVC INV.=372.09
MH 2098	SSWR MH 4' RIM = 388.87 INV IN = 377.92 INV OUT = 377.67	8" PVC INV.=377.92	8" PVC INV.=377.67
MH 2099	SSWR MH 4' RIM = 387.14 INV IN = 378.78 INV OUT = 378.58	8" PVC INV.=378.78	8" PVC INV.=378.58
MH 2100	SSWR MH 4' RIM = 386.29 INV OUT = 379.34		8" PVC INV.=379.34
MH 2110	SSWR MH 4' RIM = 375.00 INV IN = 366.12 INV OUT = 365.92	8" PVC INV.=366.12	8" PVC INV.=365.92
MH 2111	SSWR MH 4' RIM = 374.79 INV IN = 367.08 INV OUT = 366.88	8" PVC INV.=367.08	8" PVC INV.=366.88
MH 2112	SSWR MH 4' RIM = 374.00 INV OUT = 367.56		8" PVC INV.=367.56
MH 2200	SSWR MH 4' RIM = 368.37 INV IN = 361.77 INV IN = 360.27 INV OUT = 360.07	8" PVC INV.=361.77 8" PVC INV.=360.27	8" PVC INV.=360.07

SSWR - STRUCTURE TABLE

STRUCTURE NAME:	DESCRIPTION	PIPES IN:	PIPES OUT
MH 2201	SSWR MH 4' RIM = 372.52 INV IN = 364.50 INV OUT = 362.80	8" PVC INV.=364.50	8" PVC 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" PVC INV.=366.45	8" PVC INV.=365.66
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" PVC INV.=366.88
MH 2300	SSWR MH 4' RIM = 373.31 INV IN = 366.20 INV OUT = 366.00	8" PVC INV.=366.20	8" PVC INV.=366.00
MH 2301	SSWR MH 4' RIM = 375.81 INV IN = 368.57 INV OUT = 368.37	8" PVC INV.=368.57	8" PVC INV.=368.37
MH 2302	SSWR MH 4' RIM = 376.97 INV IN = 369.64 INV OUT = 369.44	8" PVC INV.=369.64	8" PVC INV.=369.44
MH 2303	SSWR MH 4' RIM = 377.58 INV IN = 370.14 INV IN = 370.50 INV OUT = 369.94	8" PVC INV.=370.14 8" PVC INV.=370.50	8" PVC 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" PVC INV.=371.27
MH 2305	SSWR MH 4' RIM = 378.75 INV IN = 371.92 INV OUT = 370.72	8" PVC INV.=371.92	8" PVC INV.=370.72
MH 2306	SSWR MH 4' RIM = 378.50 INV OUT = 372.45		8" PVC 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" PVC INV.=349.74	8" SDR 26 INV.=349.54
MH 2411	SSWR MH 4' RIM = 358.00 INV OUT = 350.47		8" PVC INV.=350.47
MH 2500	SSWR MH 4' RIM = 363.57 INV IN = 352.85 INV OUT = 352.65	8" PVC 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" PVC INV.=359.70	8" PVC INV.=359.50
MH 2502	SSWR MH 4' RIM = 370.88 INV IN = 361.52 INV OUT = 361.32	8" PVC INV.=361.52	8" PVC INV.=361.32
MH 2503	SSWR MH 4' RIM = 373.79 INV OUT = 364.20		8" PVC INV.=364.20

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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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

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045281 JAKOB P. KLEIN

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STIPULATION FOR REUSE

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

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)
121B	CB 121	15"	6.49	1.00%	370.61	370.67
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%	378.50	378.53
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%	381.16	381.19
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%	369.93	370.41
* 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)
315B	CB 315	18"	5.80	0.50%	370.94	370.97
334B	CB 334	15"	5.49	1.00%	364.16	364.21
* 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 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	2.91%	363.34	365.07
CB 311	CB 309	18"	63.41	2.96%	365.17	367.05
CB 312	CB 311	18"	59.35	2.83%	367.25	368.93
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 319	315B	18"	152.71	0.50%	370.97	371.73
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 302	24"	137.22	0.50%	361.64	362.33
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 INLET 331	CB 330	24"	132.30	0.50%	363.12	363.78
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

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

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 INLET 601	FES 602	18"	93.42	5.50%	364.86	370.00

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)
413B	CB 413	15"	5.61	1.00%	365.29	365.35
CB 401	FES 400	30"	34.25	0.50%	357.00	357.17
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
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%	361.36	361.53
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"	106.33	0.50%	347.82	348.35
YI 501C	YI 501B	15"	145.49	0.50%	348.45	349.18
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

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

1 2

SCM 1 - Structure Table	
Structure Name	Details
121B	RIM = 374.00 INV OUT = 370.67
CB 101	RIM = 373.98 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 = 382.61 INV IN = 377.41 INV IN = 378.23 INV OUT = 377.31
CB 106	RIM = 382.57 INV IN = 378.50 INV OUT = 378.40
CB 106A	RIM = 382.92 INV OUT = 378.53
CB 107	RIM = 390.04 INV OUT = 384.92
CB 111	RIM = 385.25 INV IN = 381.26 INV IN = 381.16 INV OUT = 381.06
CB 111A	RIM = 385.25 INV OUT = 381.19
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 = 370.41
CB 122	RIM = 374.05 INV OUT = 370.90
DI 126	RIM = 366.59 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 = 369.93
FES 125	INV IN = 363.50

1

SCM 1 Outfall - Structure Table	
Structure Name	Details
FES OS 100	INV IN = 359.00
OS 101	RIM = 362.00 INV OUT = 359.75

1

SCM 2 - Structure Table	
Structure Name	Details
FES 203	INV IN = 361.50
YI 204	RIM = 366.26 INV OUT = 362.25

1

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
315B	RIM = 376.00 INV IN = 370.97 INV OUT = 370.97
334B	RIM = 368.78 INV OUT = 364.21
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 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 = 370.03 INV IN = 365.17 INV IN = 365.80 INV OUT = 365.07
CB 311	RIM = 373.00 INV IN = 367.25 INV OUT = 367.05
CB 312	RIM = 374.74 INV IN = 369.03 INV IN = 369.94 INV OUT = 368.93
CB 313	RIM = 374.73 INV OUT = 370.12
CB 315	RIM = 375.97 INV IN = 370.94 INV IN = 371.88 INV OUT = 370.16
CB 319	RIM = 377.02 INV IN = 373.45 INV OUT = 371.73
CB 321	RIM = 378.00 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 = 362.33
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 INLET 331	INV OUT = 363.78
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

1

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
413B	RIM = 369.03 INV OUT = 365.35
CB 401	RIM = 363.04 INV IN = 357.26 INV OUT = 357.17
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
FES 400	INV IN = 357.00
FES 407A	INV OUT = 358.91
FES 410	INV IN = 356.95
JB 410B	RIM = 366.21 INV IN = 361.36 INV OUT = 361.26
YI 410C	RIM = 363.50 INV OUT = 361.53
YI 421	RIM = 359.68 INV OUT = 357.35

1

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 = 351.17 INV IN = 347.61 INV IN = 347.82 INV OUT = 347.41
YI 501B	RIM = 351.81 INV IN = 348.45 INV OUT = 348.35
YI 501C	RIM = 353.72 INV OUT = 349.18
YI 513A	RIM = 367.63 INV OUT = 363.95

1

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 602	INV IN = 364.86
FES INLET 601	INV OUT = 370.00

1

SCM 5 Outfall - Structure Table	
Structure Name	Details
FES OS 500	INV IN = 343.02
OS 501	RIM = 346.00 INV OUT = 343.75

1

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

1

Culvert Crossing - East - Structure Table	
Structure Name	Details
EW 101	INV IN = 364.50
HW FES 603	INV OUT = 366.50
JB 602	RIM = 371.24 INV IN = 365.04 INV OUT = 364.84

1

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:31-04'00'

PRELIMINARY
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER 045528 JAKOB P. KLEIN

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

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 & SM
DATE: 02/03/2025

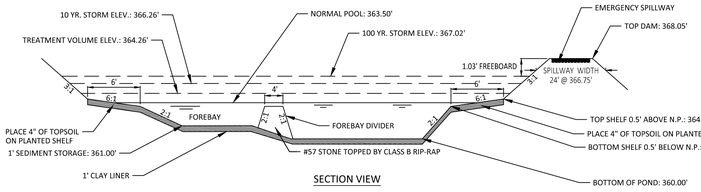
SHEET TITLE:

SCHEDULE

SHEET NO.:
C7.1

April 1, 2025

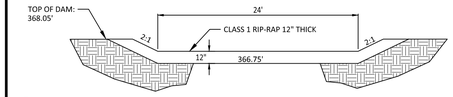
Z:\Jobs\21-002 Moody Development Tract (R2100023.dwg)_ Working Dwgs\Construction Set\7 9 Schedule.dwg



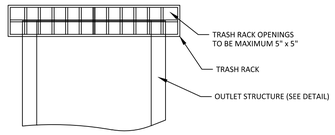
SECTION VIEW

NOTES:
1. SEE SHEET 2.0 FOR SCM CONVERSION SEQUENCE.
2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.

01 RETENTION POND
NTS

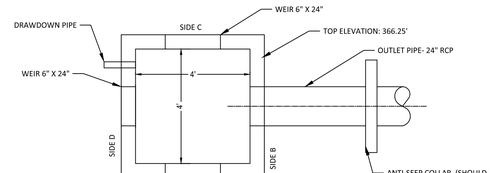


02 EMERGENCY SPILLWAY SECTION
NTS



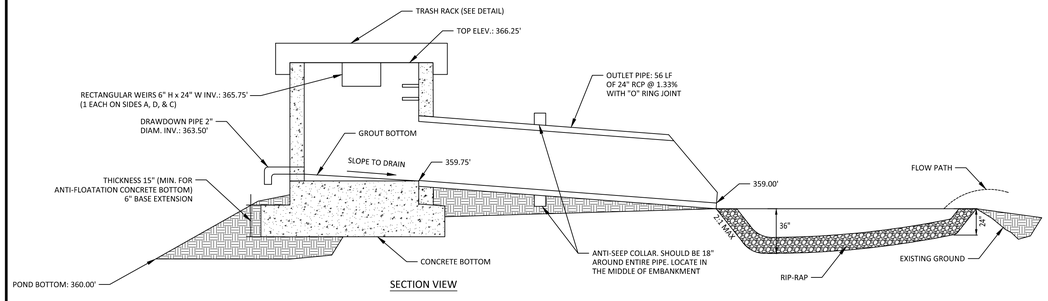
NOTES:
1. TRASH RACK SHALL BE 6" CLEAR OF STRUCTURE TOP AND SIDES. THE TRASH RACK NEED NOT COVER THE TREATMENT OUTLET PIPE.
2. TRASH RACK SHALL BE FASTENED TO EACH SIDE OF THE STRUCTURE AT AT LEAST 2 POINTS. IT SHALL BE EASILY REMOVED FOR MAINTENANCE OR ENTRY INTO THE STRUCTURE.
3. TRASH RACK SHALL ACCOMMODATE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

03 TRASH RACK
NTS



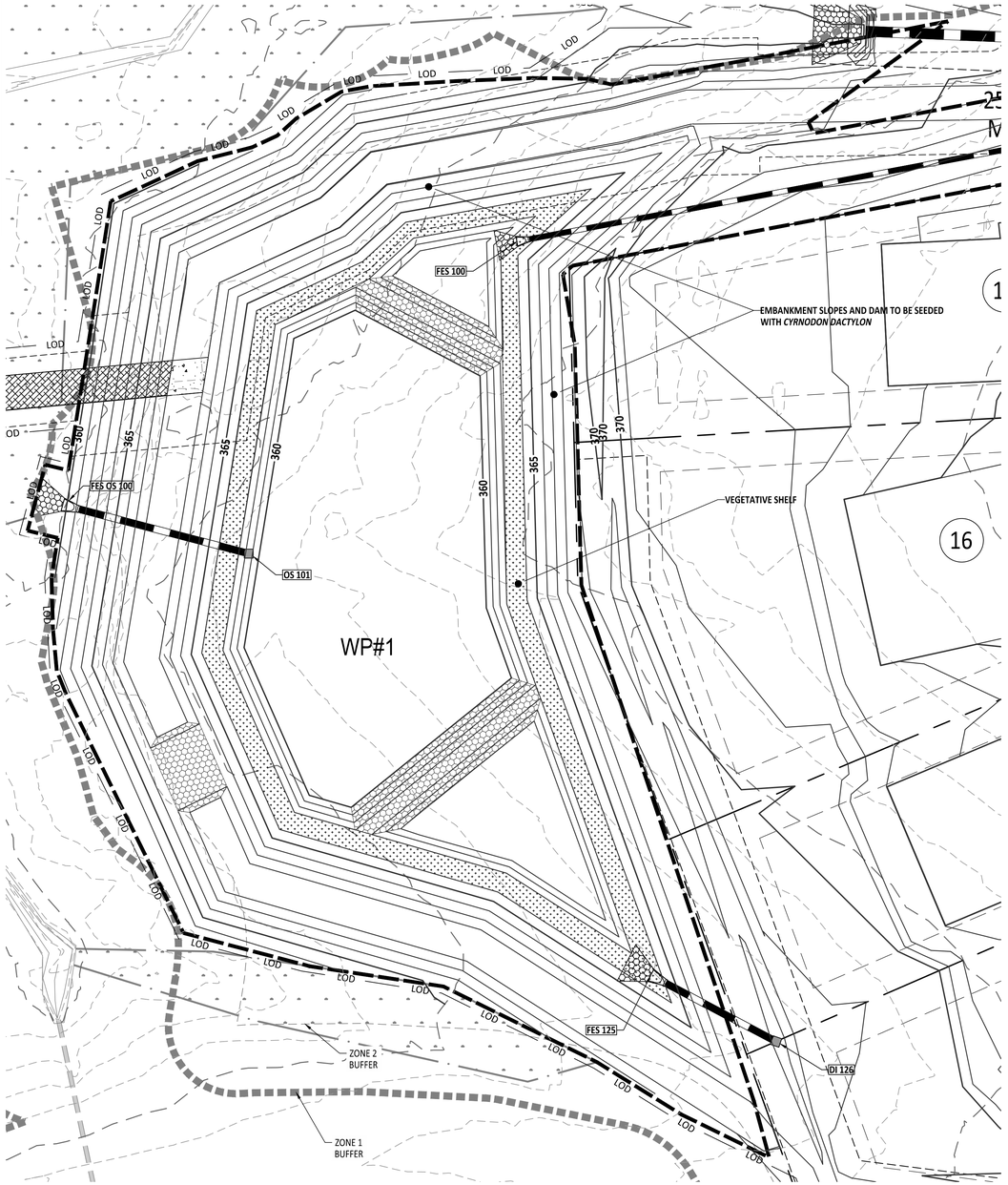
PLAN VIEW

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



SECTION VIEW

04 OUTLET STRUCTURE #1
NTS



PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF (HERB.)

EF	EUPATORIUM FISTRULOSUM	JOE PYE WEED	4-6" POT @ 3' SPACING
HC	HIBICUS COCCINEA	SCARLET ROSE MALLOW	4-6" POT @ 3' SPACING
CG	CHELONE GLABRA	WHITE TURTLEHEAD	4-6" POT @ 3' SPACING
LC	LOBELIA CARDINALIS	CARDINAL FLOWER	4-6" POT @ 3' SPACING

LANDSCAPE PLAN:

VEGETATED SHELF= 3,503 sf (USE 876 PLANTS FROM LIST ABOVE)
USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF

GRAPHIC SCALE

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

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:33-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 053281 JAKOB P. KLEIN

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

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

STIPULATION FOR REUSE

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

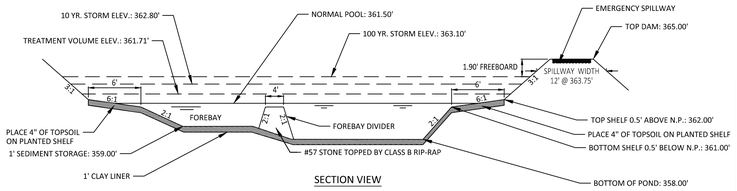
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
SCM 1

SHEET NO.:
C8.0

April 1, 2025

Z:\Job\21-002 Moody Development Tract (R)\100\05\dwg_Working Dwgs\Construction Set\8.0 & 8.1 SCM Plan.dwg



SECTION VIEW

NOTES:
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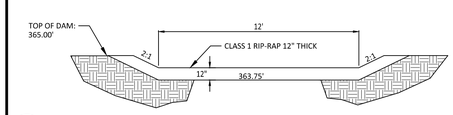
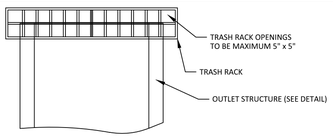
01 RETENTION POND
NTS



02 EMERGENCY SPILLWAY SECTION
NTS



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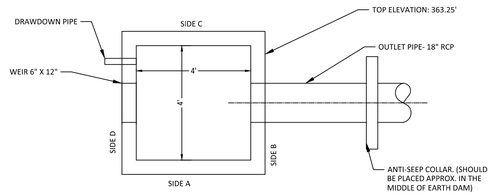
03 TRASH RACK
NTS



PLAN VIEW

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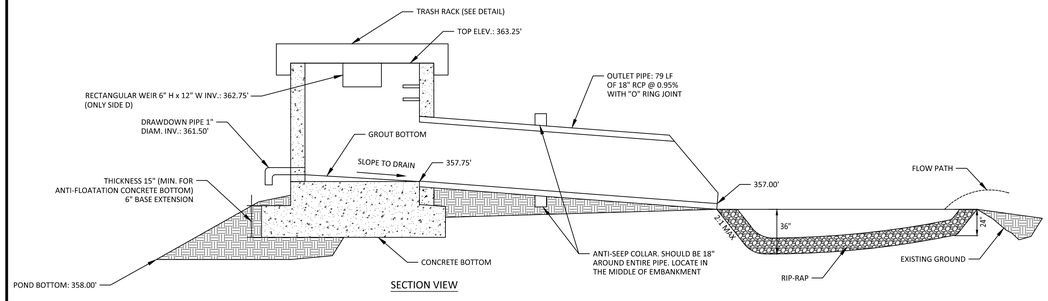
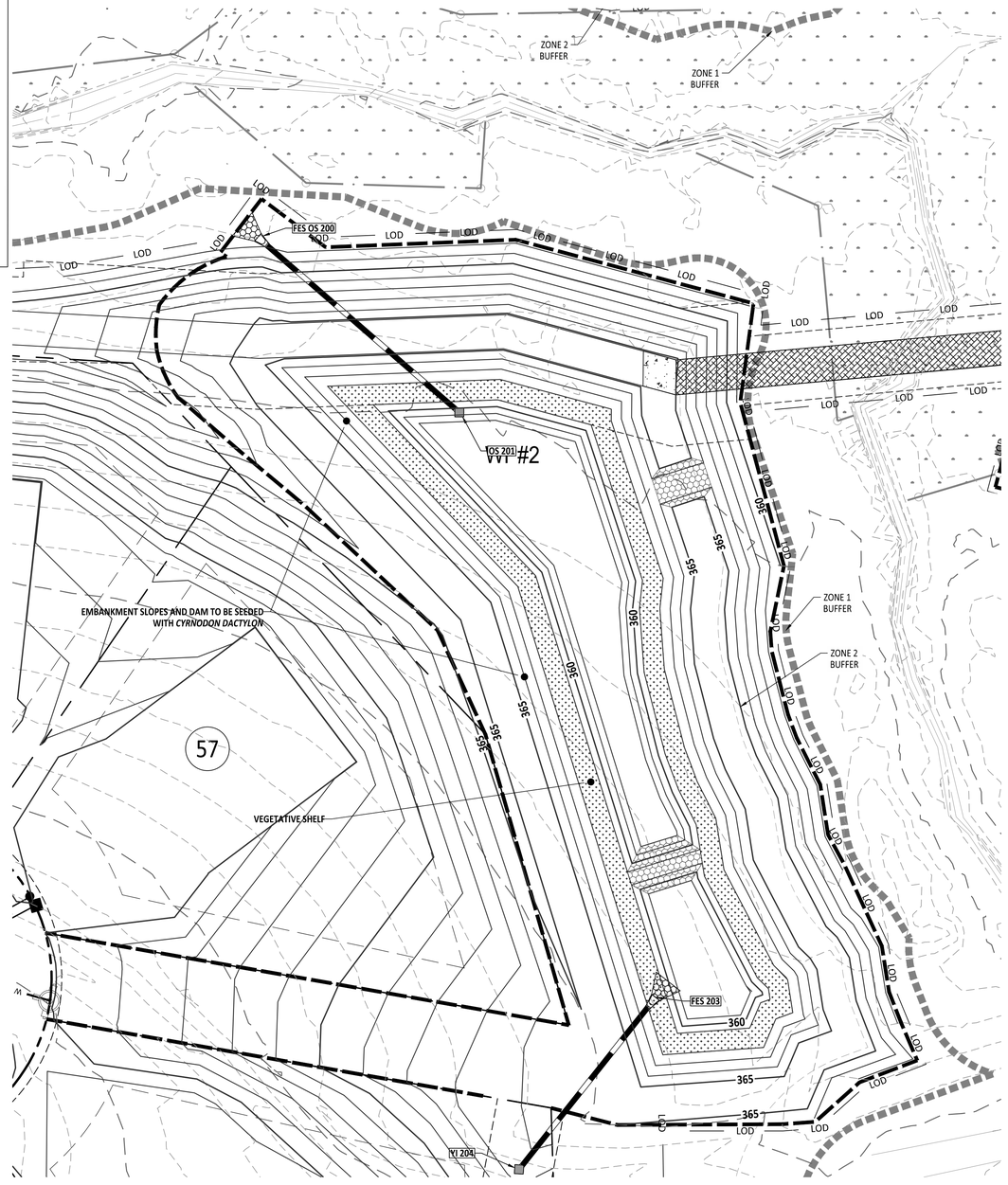


SECTION VIEW

04 OUTLET STRUCTURE #2
NTS



PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF (HERB.)

EF	EUPATORUIM FISTRULOSUM	JOE PYE WEED	4-6" POT @ 3' SPACING
HC	HIBICUS COCCINEA	SCARLET ROSE MALLOW	4-6" POT @ 3' SPACING
CG	CHELONE GLABRA	WHITE TURTLEHEAD	4-6" POT @ 3' SPACING
LC	LOBELIA CARDINALIS	CARDINAL FLOWER	4-6" POT @ 3' SPACING

LANDSCAPE PLAN:

VEGETATED SHELF= 3,100 sf (USE 775 PLANTS FROM LIST ABOVE)
USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20

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

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

Digitally signed by Jakob Klein
Date: 2025.04.01 13:34:04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER
36528
JAKOB P. KLEIN

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

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

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.

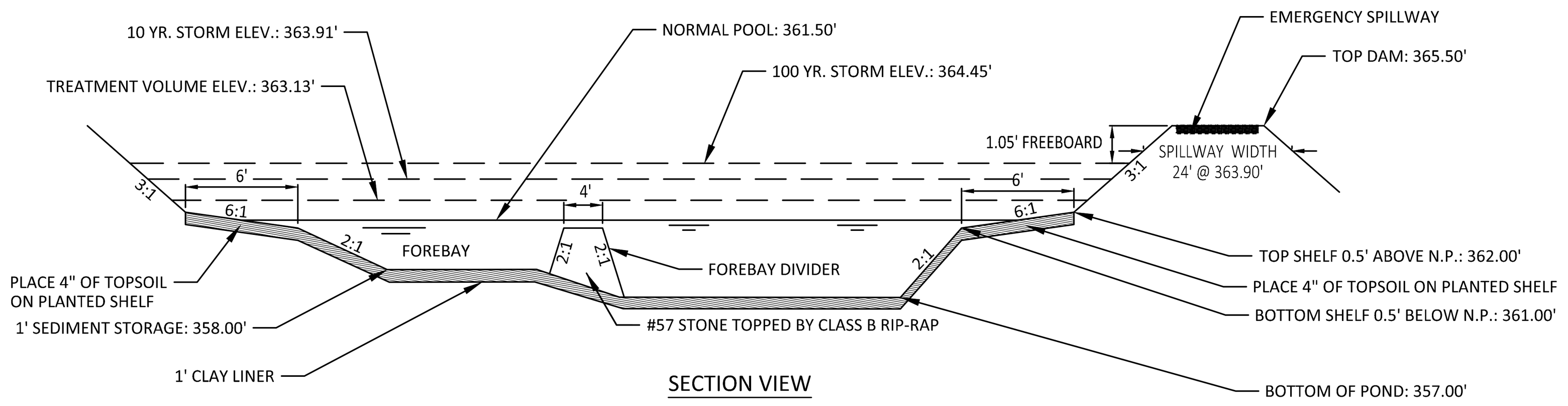
THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
SCM 2

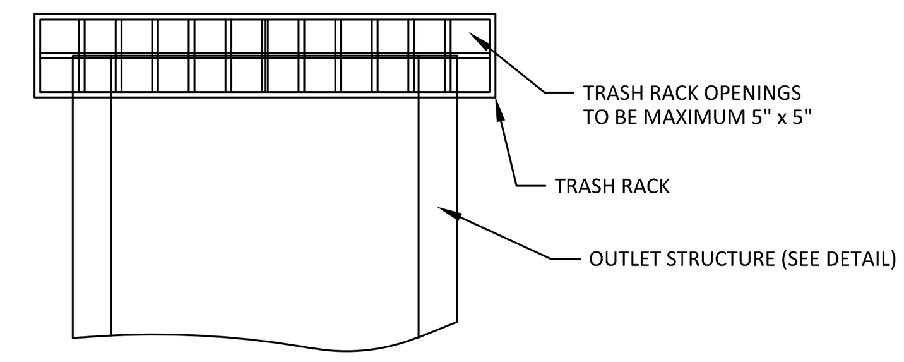
SHEET NO.:
C8.1

April 3, 2025
Z:\Jobs\21-002 Moody Development Trust (R2100027)\dwg_Working Dwgs\Construction Set\8.0 & 1 SCM Plan.dwg



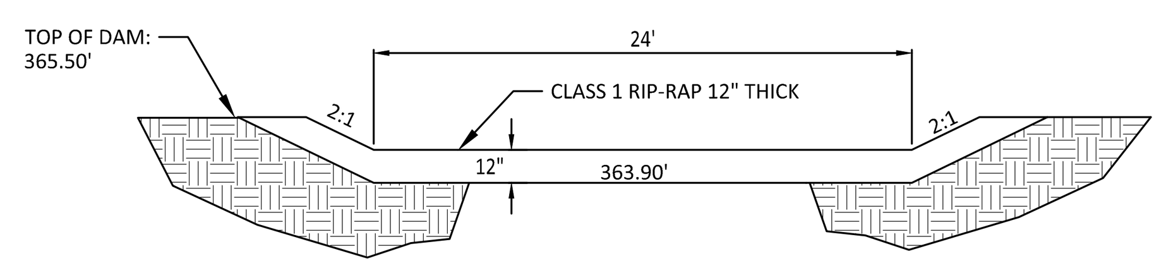
NOTES:
1. SEE SHEET 2.0 FOR SCM CONVERSION SEQUENCE.
2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.

01 RETENTION POND
NTS

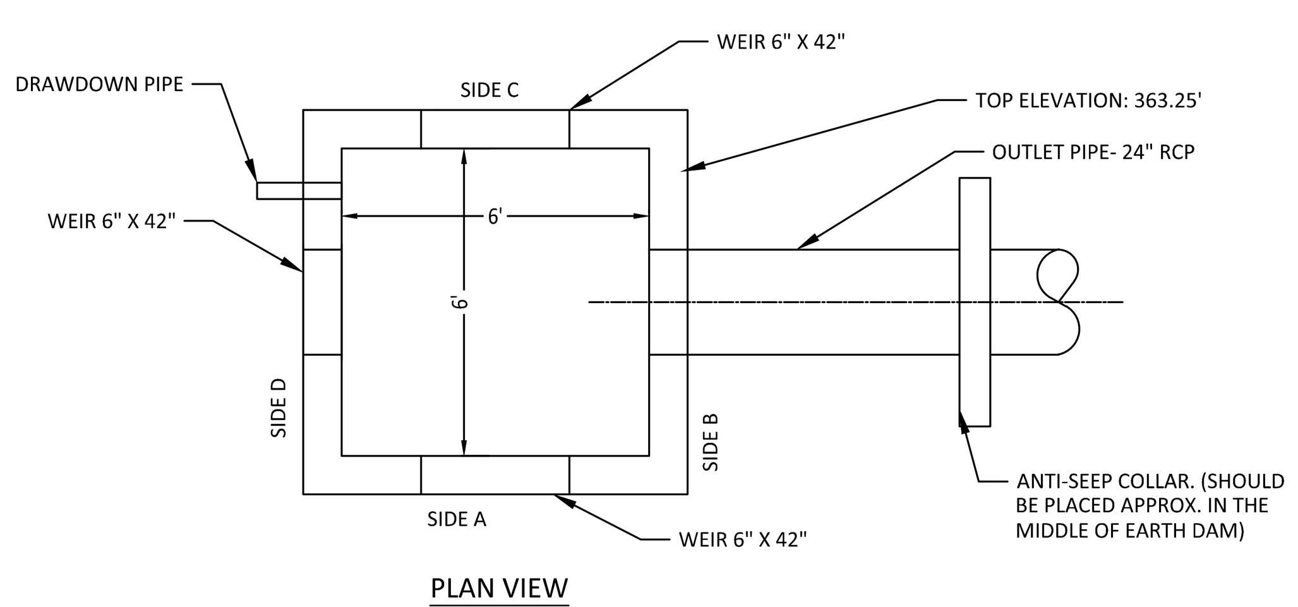


NOTES:
1. TRASH RACK SHALL BE 6" CLEAR OF STRUCTURE TOP AND SIDES. THE TRASH RACK NEED NOT COVER THE TREATMENT OUTLET PIPE.
2. TRASH RACK SHALL BE FASTENED TO EACH SIDE OF THE STRUCTURE AT AT LEAST 2 POINTS. IT SHALL BE EASILY REMOVED FOR MAINTENANCE OR ENTRY INTO THE STRUCTURE.
3. TRASH RACK SHALL ACCOMMODATE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

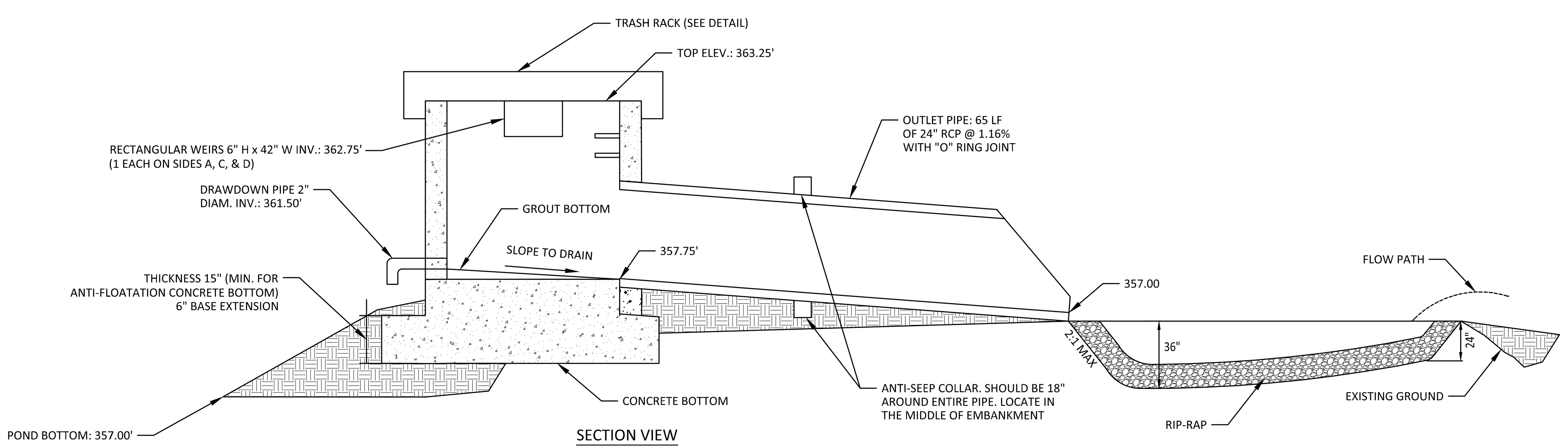
02 TRASH RACK
NTS



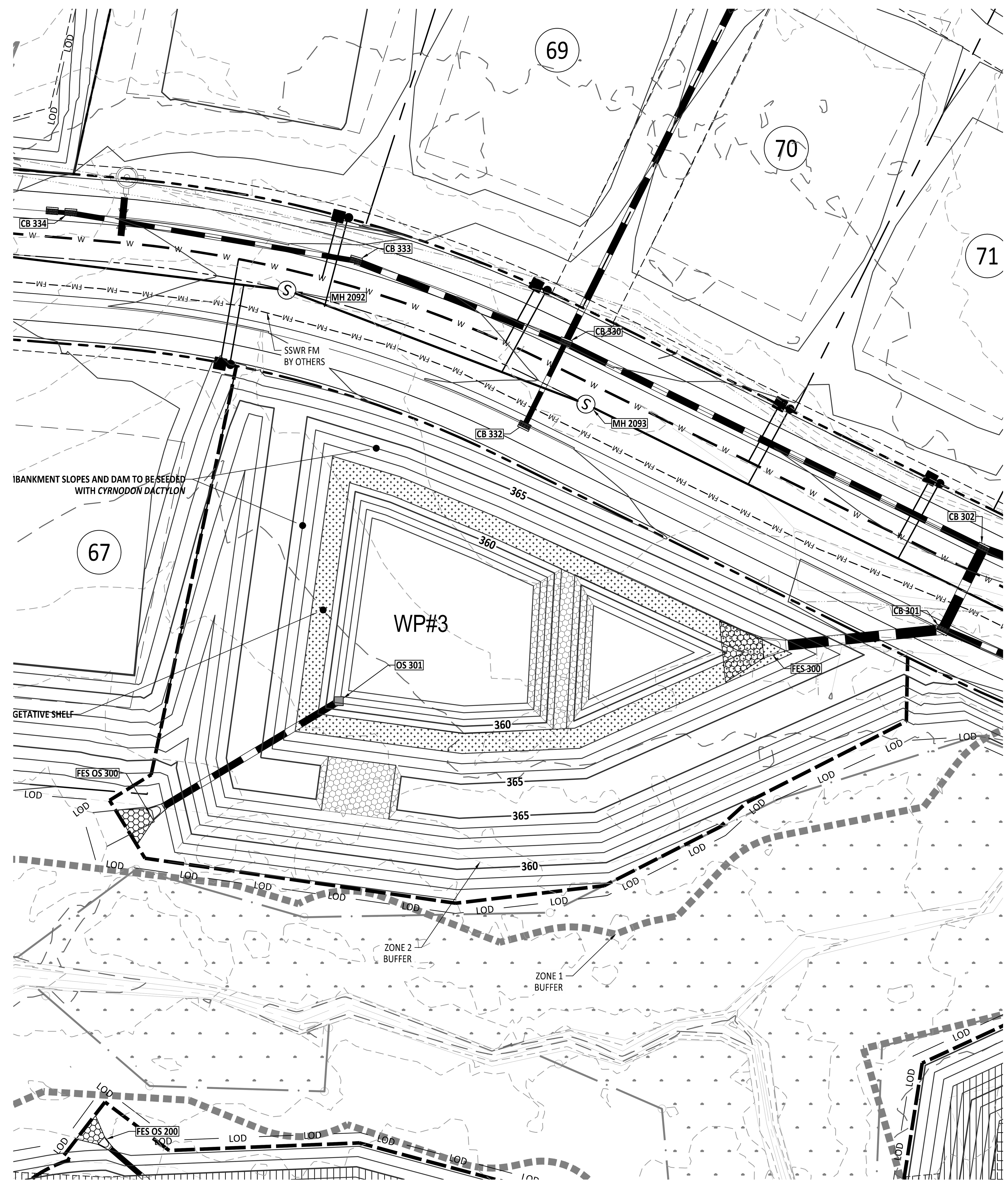
03 EMERGENCY SPILLWAY SECTION
NTS



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



04 OUTLET STRUCTURE #3
NTS



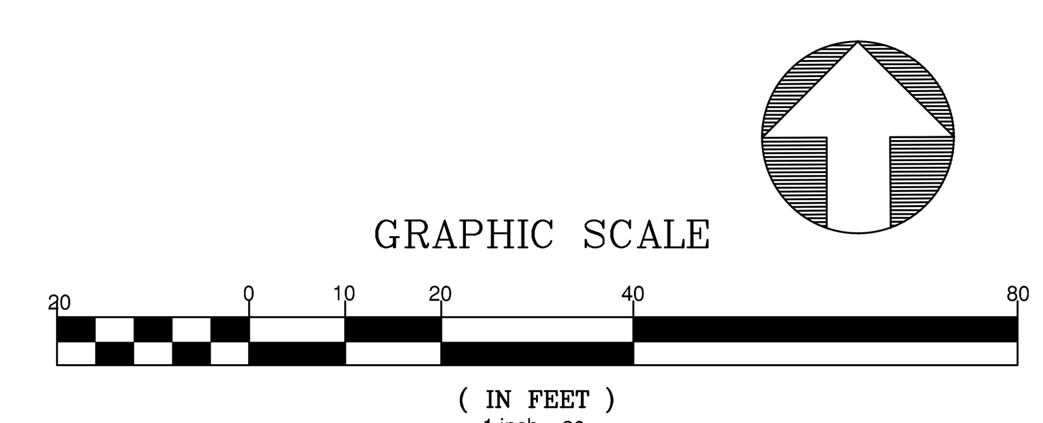
PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF (HERB.)

EF	EUPATORUIM FISTRULOSUM	JOE PYE WEED	4-6" POT @ 3' SPACING
HC	HIBICUS COCCINEA	SCARLET ROSE MALLOW	4-6" POT @ 3' SPACING
CG	CHELONE GLABRA	WHITE TURTLEHEAD	4-6" POT @ 3' SPACING
LC	LOBELIA CARDINALIS	CARDINAL FLOWER	4-6" POT @ 3' SPACING

LANDSCAPE PLAN:
VEGETATED SHELF= 2,109 sf (USE 528 PLANTS FROM LIST ABOVE)
USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF



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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:35-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

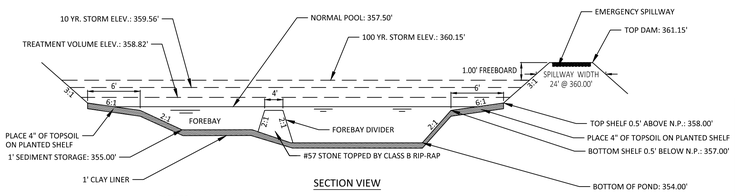
NO.	DATE	REVISION:
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
SCM 3

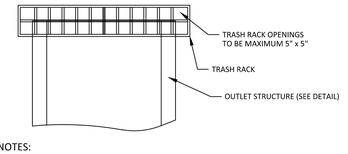
SHEET NO.:
C8.2



SECTION VIEW

NOTES:
1. SEE SHEET 2.0 FOR SCM CONVERSION SEQUENCE.
2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.

01 RETENTION POND
NTS



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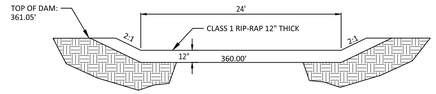
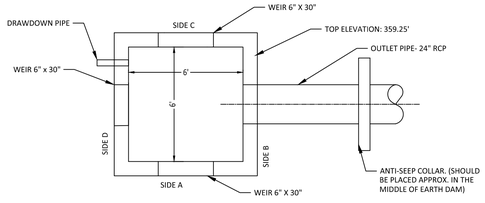
02 TRASH RACK
NTS



03 EMERGENCY SPILLWAY SECTION
NTS



PLAN VIEW

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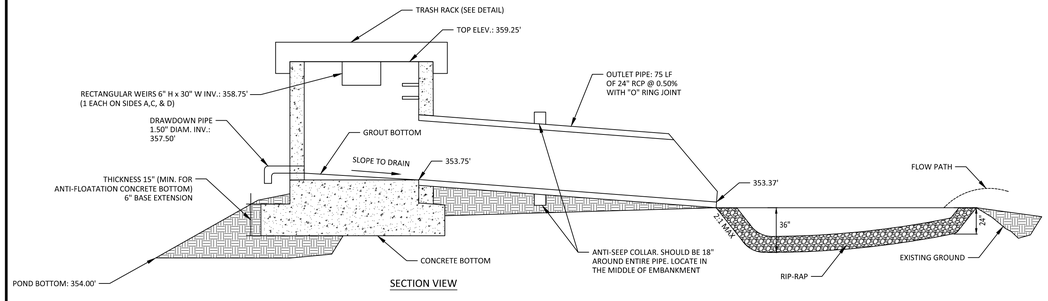
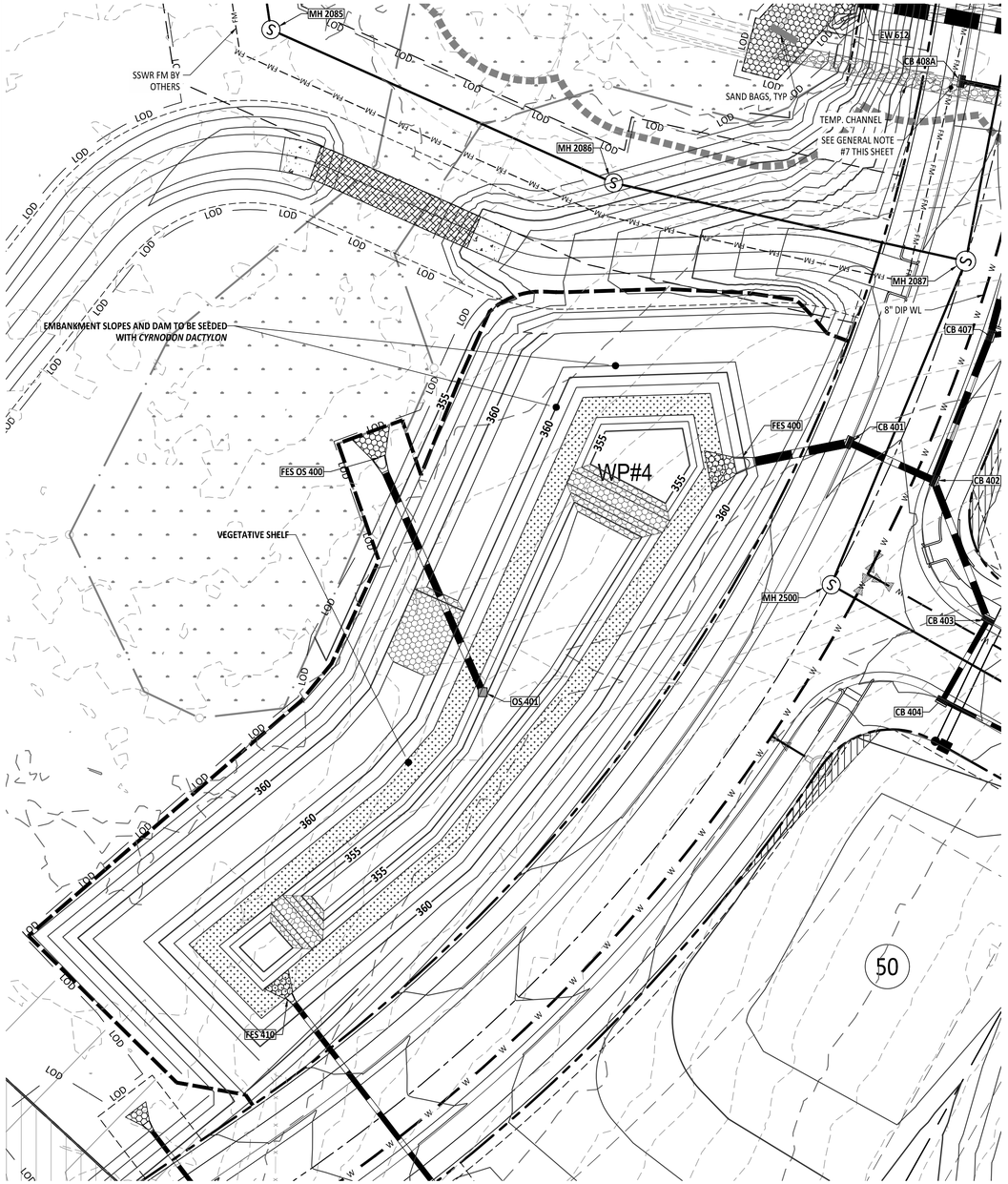


SECTION VIEW

04 OUTLET STRUCTURE #4
NTS



PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF
(HERB.)

EF	EUPATORUIM FISTRULOSUM	JOE PYE WEED	4-6" POT @ 3' SPACING
HC	HIBICUS COCCINEA	SCARLET ROSE MALLOW	4-6" POT @ 3' SPACING
CG	CHELONE GLABRA	WHITE TURTLEHEAD	4-6" POT @ 3' SPACING
LC	LOBELIA CARDINALIS	CARDINAL FLOWER	4-6" POT @ 3' SPACING

LANDSCAPE PLAN:

VEGETATED SHELF= 2,890 sf (USE 723 PLANTS FROM LIST ABOVE)
USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:36-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045528 JAKOB P. KLEIN

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

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

STIPULATION FOR REUSE

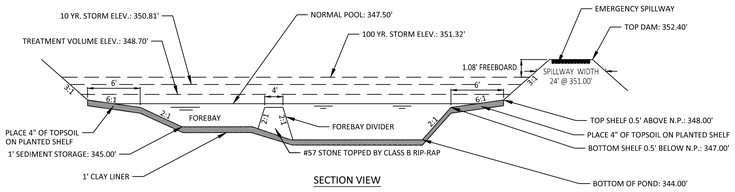
THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
SCM 4

SHEET NO.:
C8.3

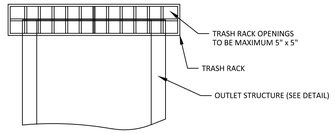
April 1, 2025
Z:\Jobs\21-002 Moody Development Trust (R)\100\03\Dwgs_Working Dwgs\Construction Set\8.0-8.5 SCM Plan.dwg



SECTION VIEW

NOTES:
1. SEE SHEET 2.0 FOR SCM CONVERSION SEQUENCE.
2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.

01 RETENTION POND
NTS



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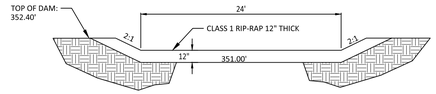
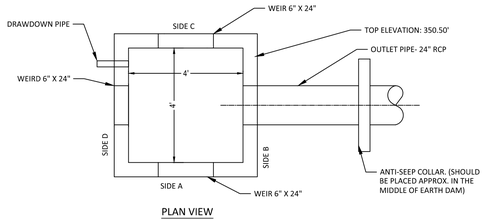
02 TRASH RACK
NTS



03 EMERGENCY SPILLWAY SECTION
NTS



PLAN VIEW

NOTES:
1. WALL THICKNESS AND REINFORCEMENT TO BE DETERMINED BY PRECAST CONCRETE MANUFACTURER.
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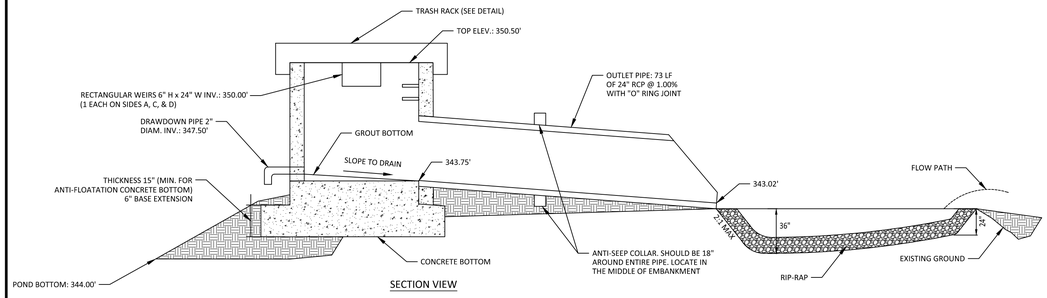
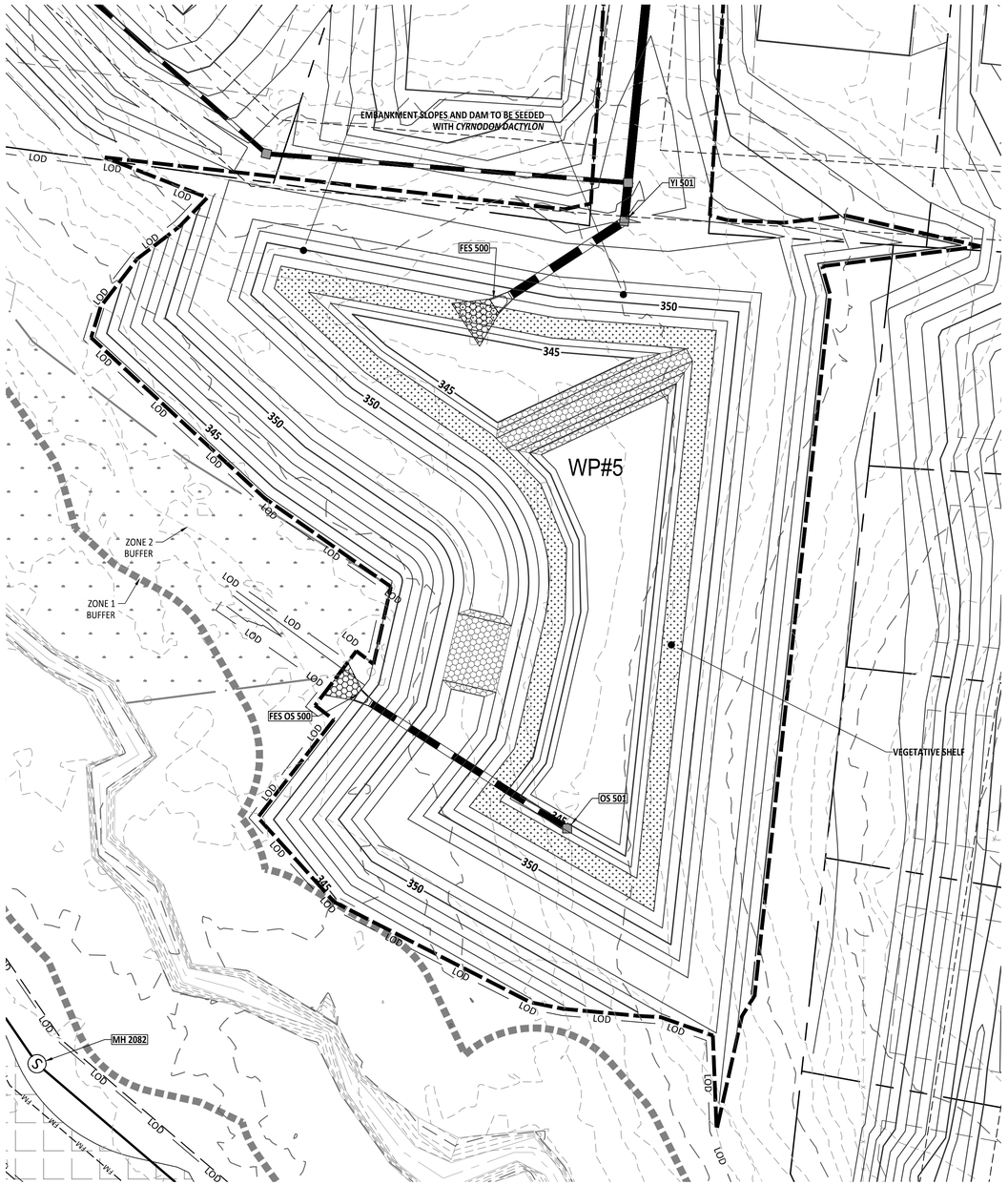


SECTION VIEW

04 OUTLET STRUCTURE #5
NTS



PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF
(HERB.)

EF	EUPATORUIM FISTRULOSUM	JOE PYE WEED	4-6" POT @ 3' SPACING
HC	HIBICUS COCCINEA	SCARLET ROSE MALLOW	4-6" POT @ 3' SPACING
CG	CHELONE GLABRA	WHITE TURTLEHEAD	4-6" POT @ 3' SPACING
LC	LOBELIA CARDINALIS	CARDINAL FLOWER	4-6" POT @ 3' SPACING

LANDSCAPE PLAN:
VEGETATED SHELF= 3172 sf (USE 793 PLANTS FROM LIST ABOVE)
USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF

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

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:37-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045281 JAKOB P. KLEIN

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

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

STIPULATION FOR REUSE

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

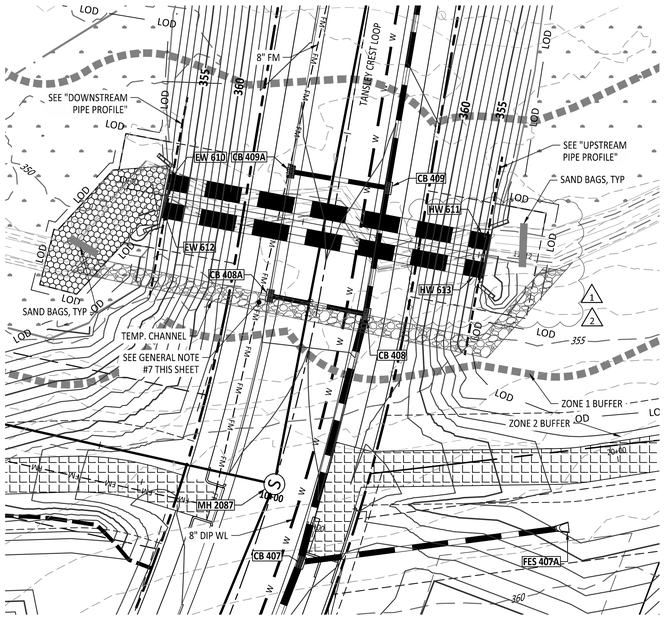
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
SCM 5

SHEET NO.:
C8.4

April 1, 2025

Z:\Jobs\21-002 Moody Development Tract (8210005)\Dwg_ Working Dwgs\Construction Set\8 0 8 1 SCM Plan.dwg

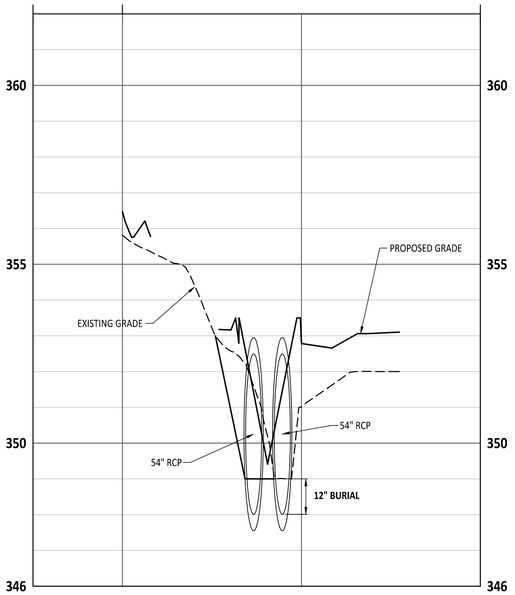


CULVERT CROSSING PLAN

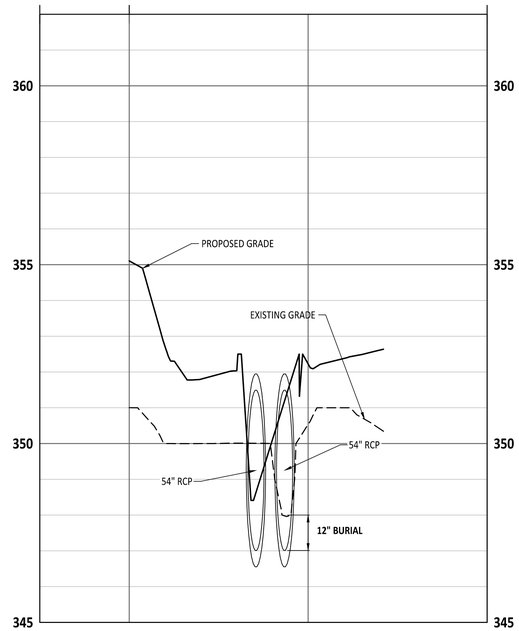
GRAPHIC SCALE

20 0 10 20 40 80

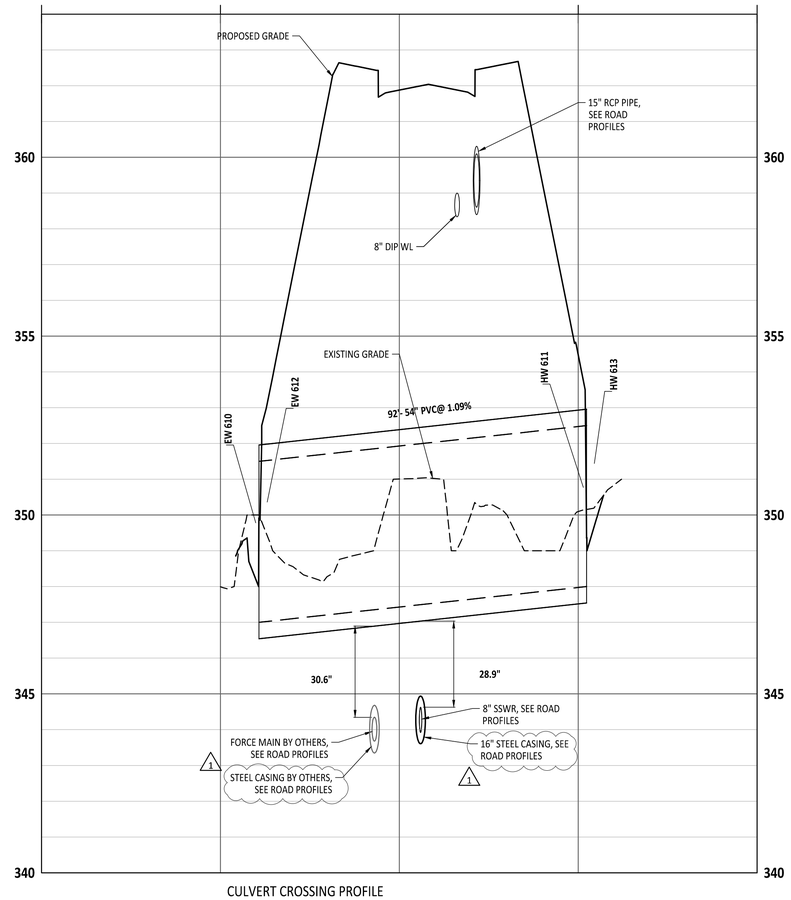
(IN FEET)
1 inch = 20



CULVERT CROSSING - UPSTREAM PIPE PROFILE



CULVERT CROSSING - DOWNSTREAM PIPE PROFILE



CULVERT CROSSING PROFILE

SEQUENCE FOR 54" RCP CULVERT CROSSING

STAGE 1A CREEK CROSSING INSTALLATION

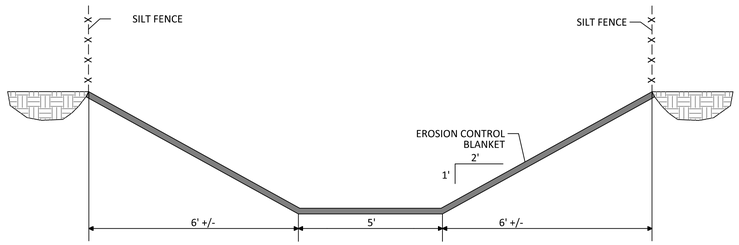
1. CONDUCT MEETING WITH WAKE COUNTY INSPECTOR PRIOR TO PROCEEDING WITH THE STREAM CROSSING CONSTRUCTION.
2. INSTALL THE BYPASS CHANNEL AS SHOWN WITH LINING LEAVING A PORTION OF THE STREAM BANK ON EACH END TO ACT AS A DAM TO PREVENT WATER FLOW DURING CONSTRUCTION OF THE CHANNEL. **(STEPS 3 - 9 SHOULD BE ACCOMPLISHED DURING ONE WORKDAY)**.
3. DURING A PERIOD OF DRY WEATHER REMOVE THE DOWNSTREAM DAM FIRST AND CONSTRUCT THE REMAINDER OF THE CHANNEL TO THE EXISTING STREAM BED.
4. REMOVE THE UPSTREAM DAM AND CONSTRUCT THE REMAINDER OF THE CHANNEL ON THAT END INCLUDING LINING.
5. ADD SANDBAGS ACROSS THE STREAM AT THE UPSTREAM END TO FORCE THE STREAM FLOW INTO THE BY-PASS CHANNEL.
6. ADD SANDBAGS ACROSS THE DOWNSTREAM END OF THE STREAM JUST ABOVE THE POINT WHERE THE BY-PASS CHANNEL RE-ENTERS THE STREAM TO PREVENT FLOW INTO THE LOCATION OF THE PIPE TO BE INSTALLED.
7. INSTALL TEMPORARY HOSE AND PUMP TO ALLOW FOR PUMP AROUND. PUMPS TO BE USED AS NEEDED.
8. RELOCATE BRIDGE MAT OVER THE TEMPORARY BY-PASS CHANNEL.
9. SEED/SOD AND STABILIZE ALL DENUDED AREAS ONCE THE CHANNEL IS IN PLACE.

STAGE 1B CREEK CROSSING INSTALLATION

1. OBTAIN PERMISSION FROM THE WAKE COUNTY INSPECTOR TO PROCEED WITH THIS STEP.
2. EXCAVATE AREA AS SHOWN AND INSTALL PIPE WITH HEADWALLS AND DOWNSTREAM RIP RAP AS SHOWN IN RIP-RAP CROSS-SECTION.
3. OBTAIN WAKE COUNTY APPROVAL OF THE PIPE INSTALLATION.

STAGE 1C CREEK CROSSING INSTALLATION

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



TEMPORARY CHANNEL SECTION

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WAKE COUNTY STANDARDS AND REGULATIONS.
2. THERE SHALL BE NO DISTURBANCE OUTSIDE THE LIMITS SHOWN ON THIS PLAN WITHOUT AN APPROVED PLAN AMENDMENT BY WAKE COUNTY.
3. ALL DISTURBED AREAS SHALL BE SEEDED PER THE TABLE.
4. PERMANENT GROUND COVER SHALL BE ESTABLISHED PER NPDES SEEDING SCHEDULE AT EITHER 7 DAYS OR 14 DAYS DEPENDING ON MEASURE AND SLOPE.
5. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SELF-INSPECTION LOG.
6. CUT AND FILL SLOPES THAT ARE 2:1 OR GREATER SHALL BE STABILIZED WITH PERMANENT SLOPE RETENTION DEVICES OR A SUITABLE COMBINATION OF PLANTING AND RETENTION DEVICES. SLOPES GREATER THAN 3:1 SHALL NOT BE STABILIZED WITH TURF GRASS BUT MUST BE STABILIZED WITH VEGETATION THAT REQUIRES MINIMAL MAINTENANCE: WEEPING LOVE GRASS, RED FESCUE, OR OTHER APPROVED VARIETY.
7. CONTRACTOR TO LOCATE EXISTING FORCE MAIN AND MAINTAIN ADEQUATE COVER WHEN ROUTING TEMPORARY CHANNEL.

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:38-04'00'

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

NORTH CAROLINA
PROFESSIONAL
165128
ENGINEER
JAKOB P. KLEIN

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

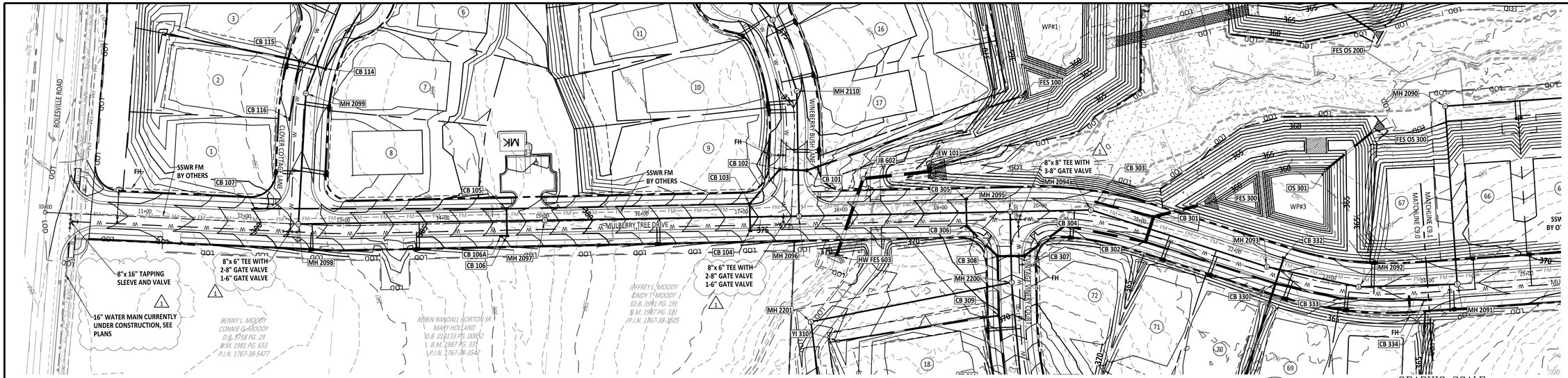
STIPULATION FOR REUSE

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
CULVERT CROSSING

SHEET NO.:
C8.5



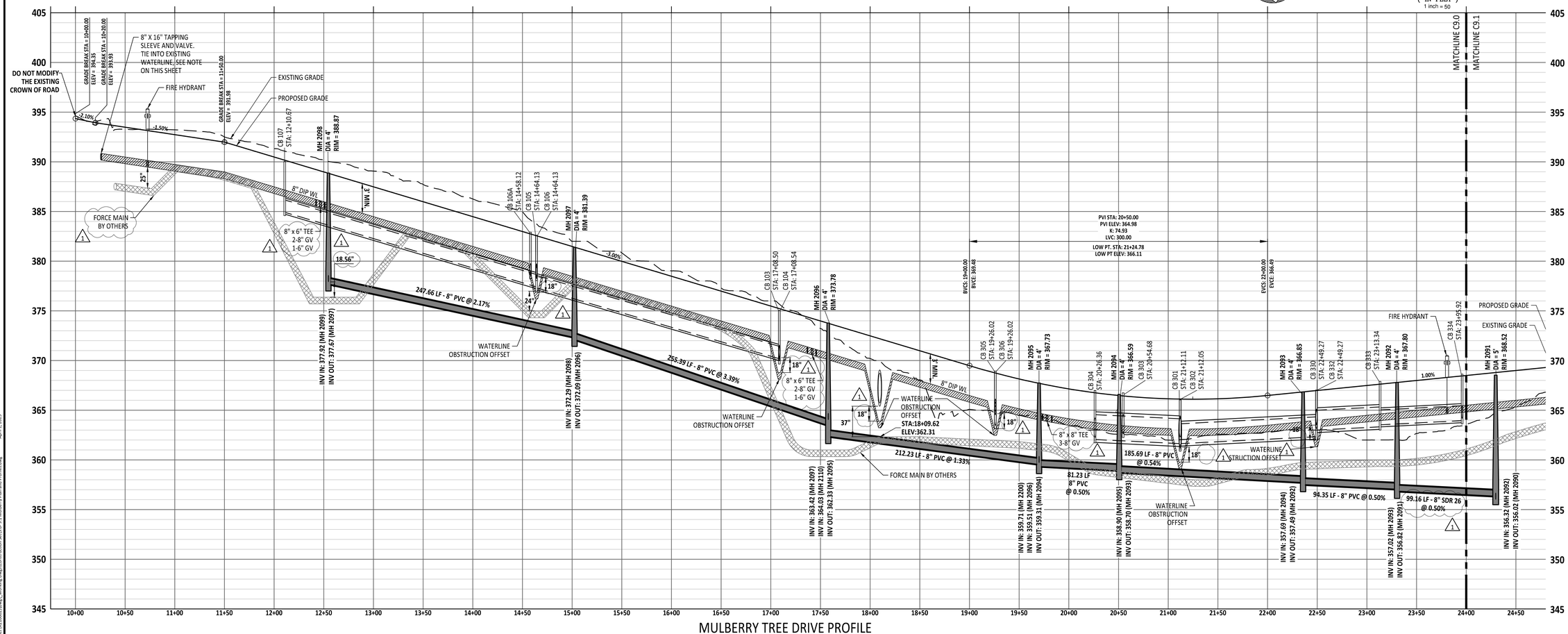
MULBERRY TREE DRIVE PLAN

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

NOTE:
1. CONTRACTOR TO CONFIRM LOCATION, DEPTH, SIZE, AND MATERIAL OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES TO AMERICAN ENGINEERING.



MULBERRY TREE DRIVE PROFILE

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

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City of Raleigh Public Utilities Department Permit # _____

North Carolina 811
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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 SEAL 045529 JAKOB P. KLEIN
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION
Digitally signed by Jakob Klein
Date: 2025.04.01 21:39:04'00'
PRELIMINARY
DO NOT USE FOR CONSTRUCTION

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

STIPULATION FOR REUSE

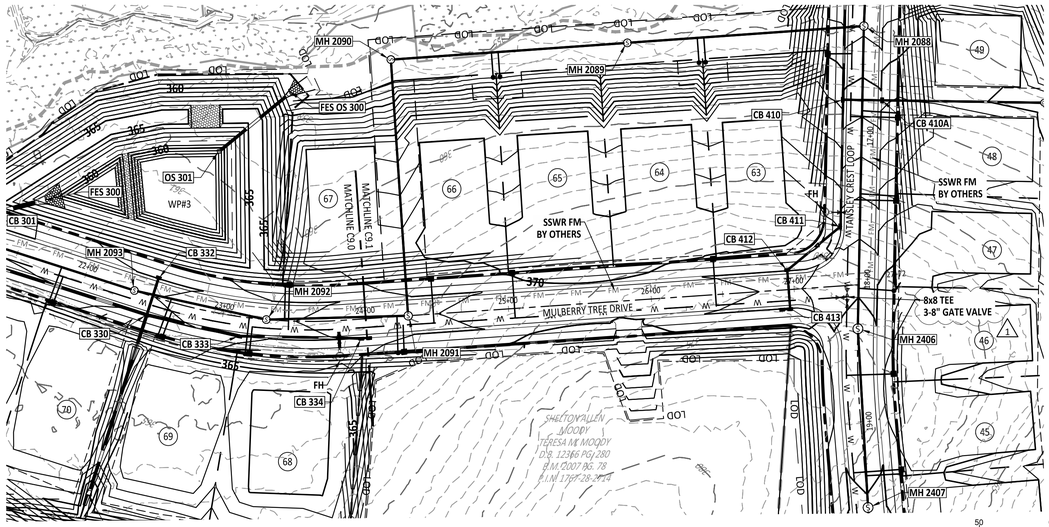
THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
MULBERRY PLAN AND PROFILE

SHEET NO.:
C9.0

Z:\Jobs\21-002 Moody Development Tract (R21000)\Engr_ Working Dwgs\Construction Set\9.0 n 9.1 Mulberry Plan and Profile.dwg April 1, 2025

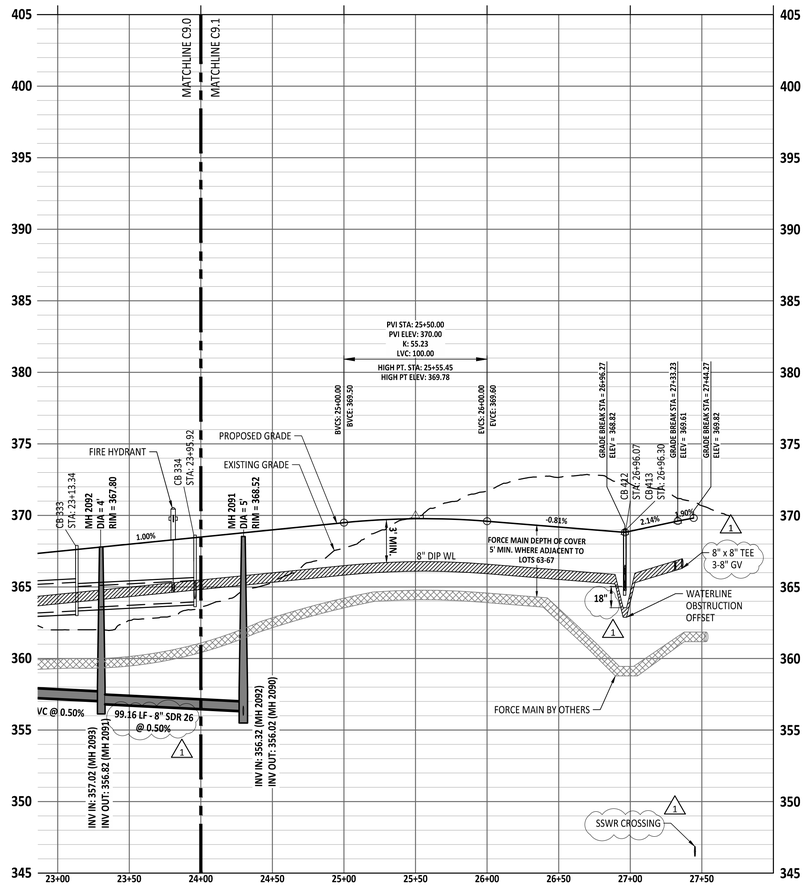


MULBERRY TREE DRIVE PLAN

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50



MULBERRY TREE DRIVE PROFILE

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:40-04'00'

NORTH CAROLINA
PROFESSIONAL ENGINEER
053128
JAKOB P. KLEIN

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

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

STIPULATION FOR REUSE

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

MULBERRY PLAN AND PROFILE

SHEET NO.:

C9.1

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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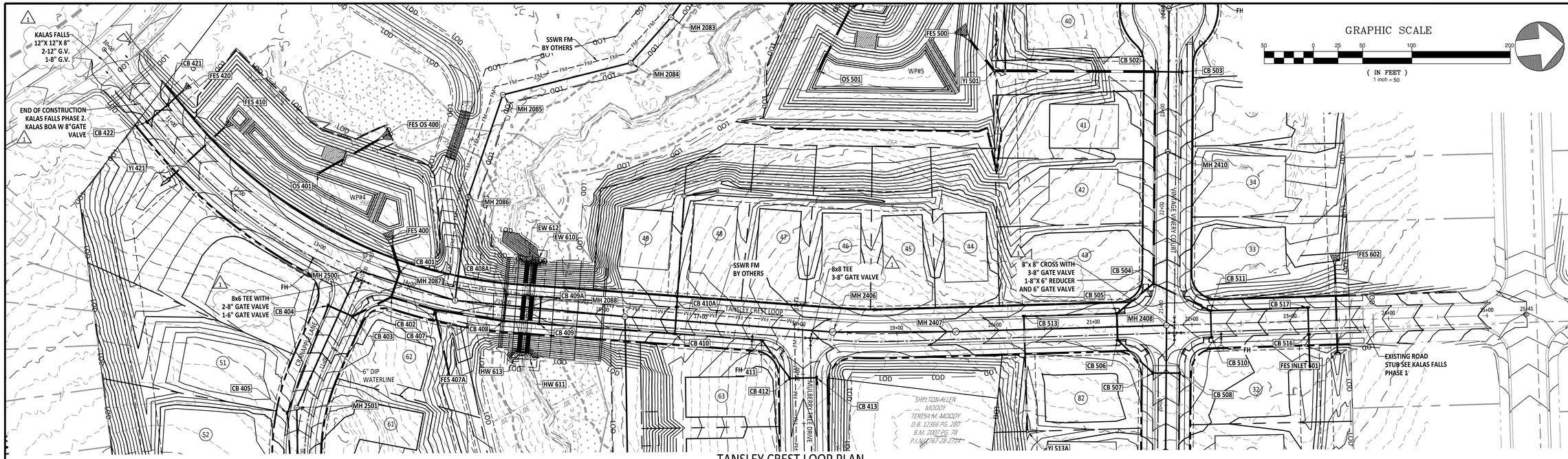
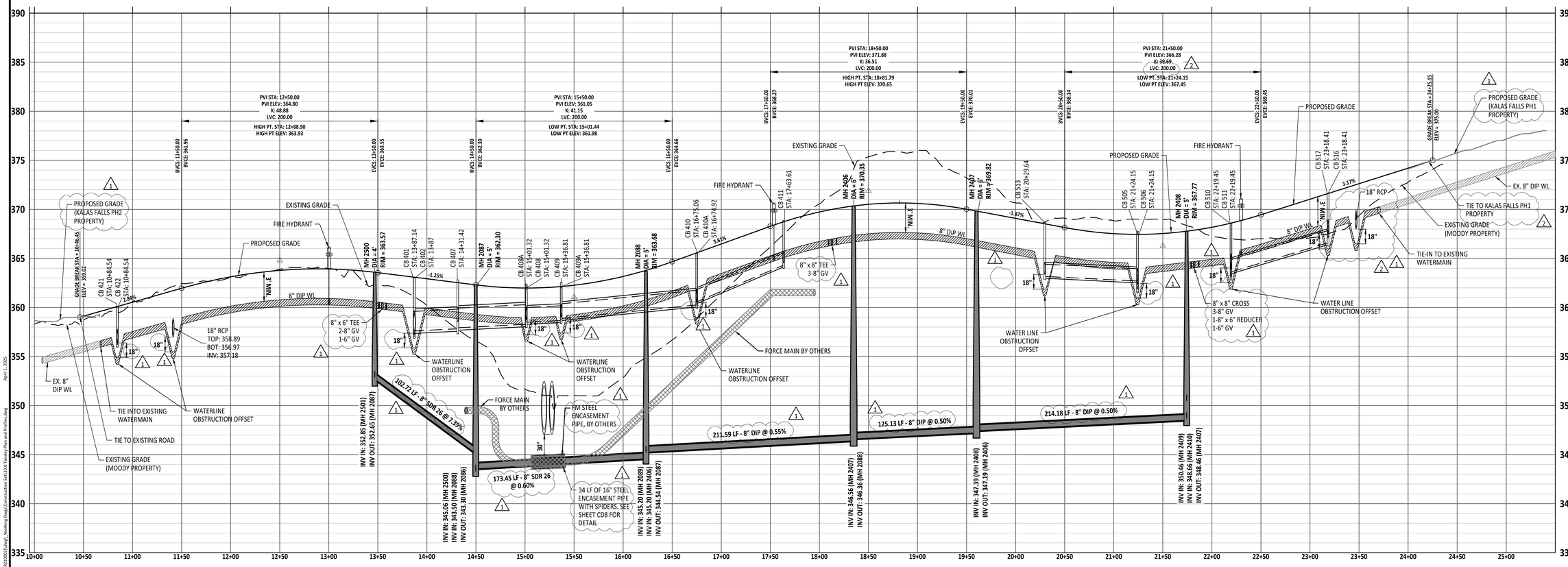
City of Raleigh
Public Utilities Department Permit # _____

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



TANSLEY CREST LOOP PLAN



TANSLEY CREST LOOP PROFILE

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:41-04'00'

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

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

STIPULATION FOR REUSE

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
TANSLEY CREST LOOP PLAN AND PROFILE

SHEET NO.:
C10.0

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

Public
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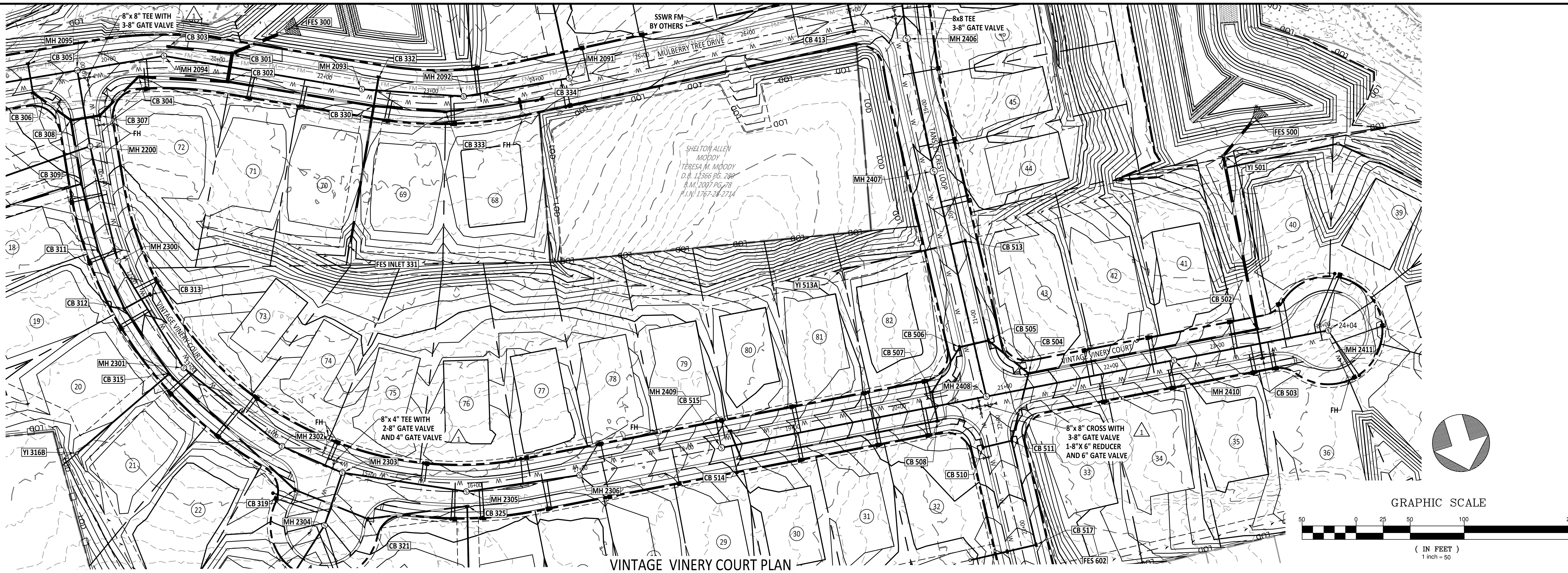
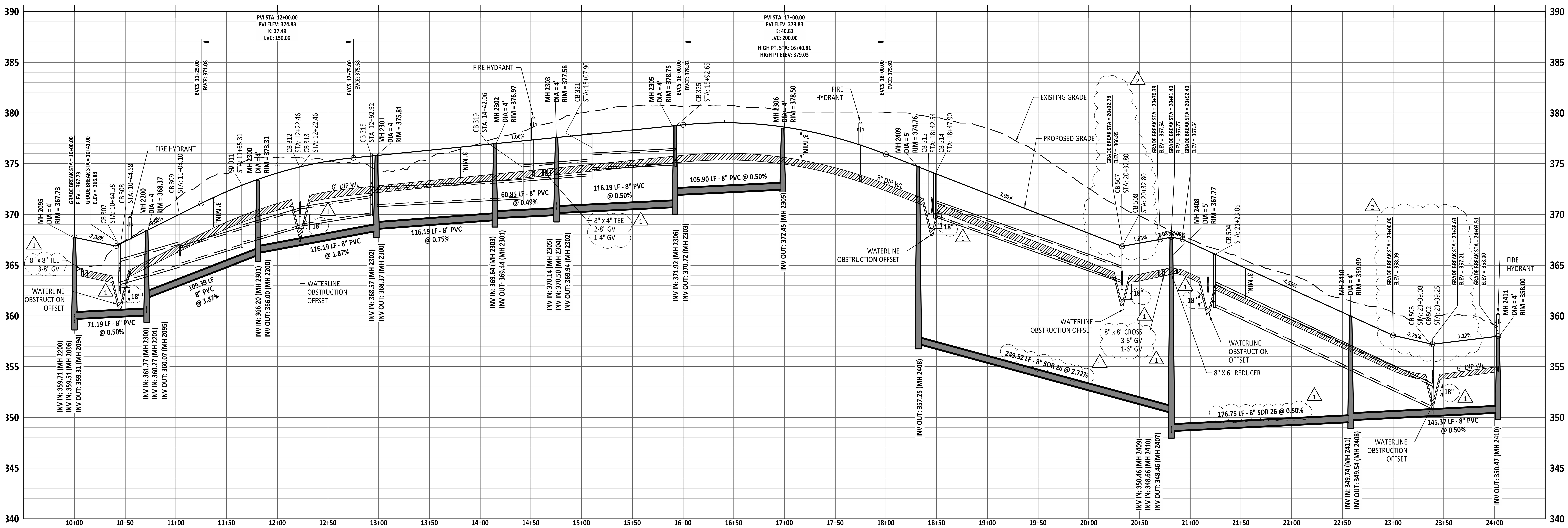
City of Raleigh
Public Utilities Department Permit # _____

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

April 1, 2025
Z:\Jobs\21-002 Moody Development Tract (8210002)\Dwg_Working Dwgs\Construction Set\10.0 Tansley Plan and Profiles.dwg



VINTAGE VINERY COURT PLAN



VINTAGE VINERY COURT PROFILE

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:42-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

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

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 & SM
DATE: 02/03/2025

SHEET TITLE:
VINTAGE VINERY CT PLAN AND PROFILE

SHEET NO.:
C11.0

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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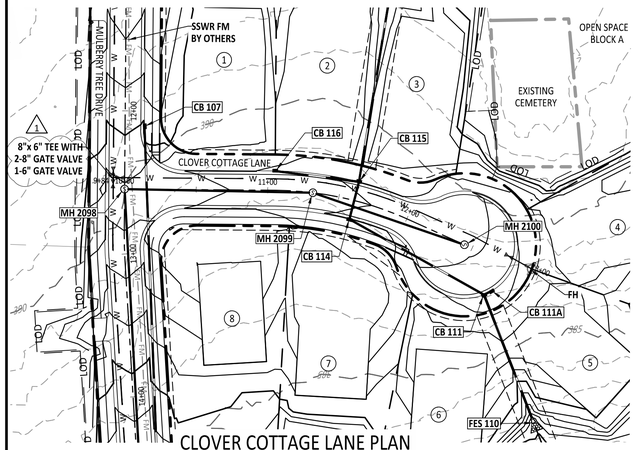
City of Raleigh
Public Utilities Department Permit # ____________

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

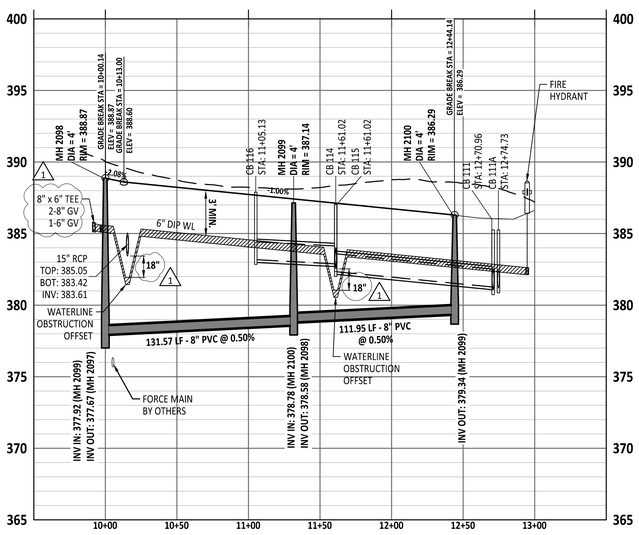


CLOVER COTTAGE LANE PLAN

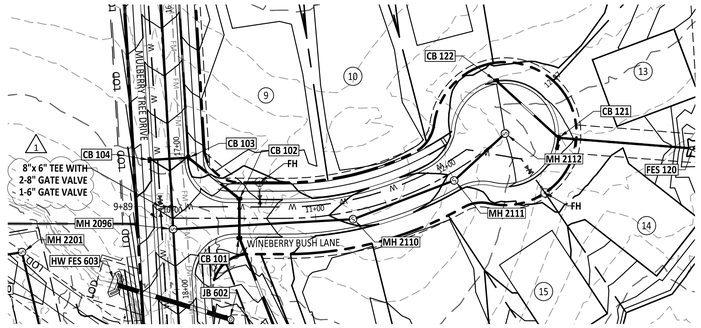
GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50



CLOVER COTTAGE LANE PROFILE



WINEBERRY BUSH LANE PLAN

GRAPHIC SCALE

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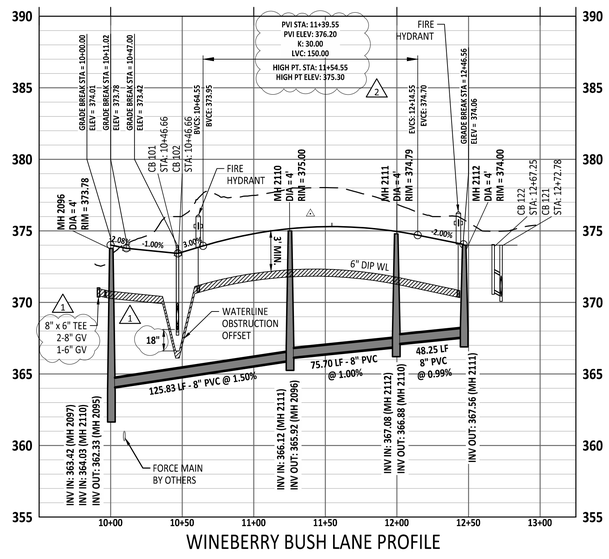
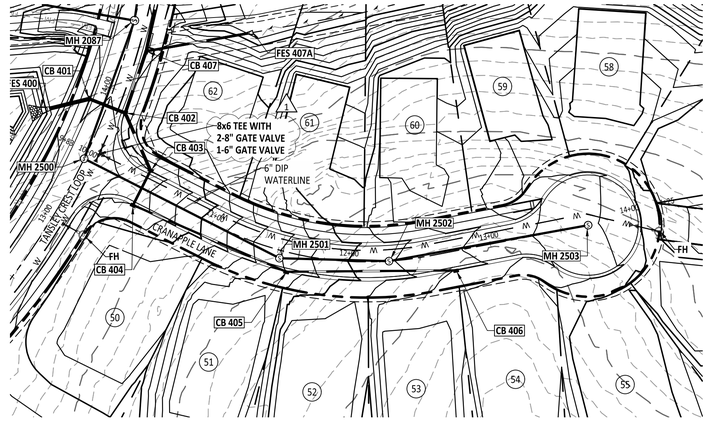
(IN FEET)
1 inch = 50



WINEBERRY BUSH LANE PROFILE



CRANAPPLE LANE PLAN

GRAPHIC SCALE

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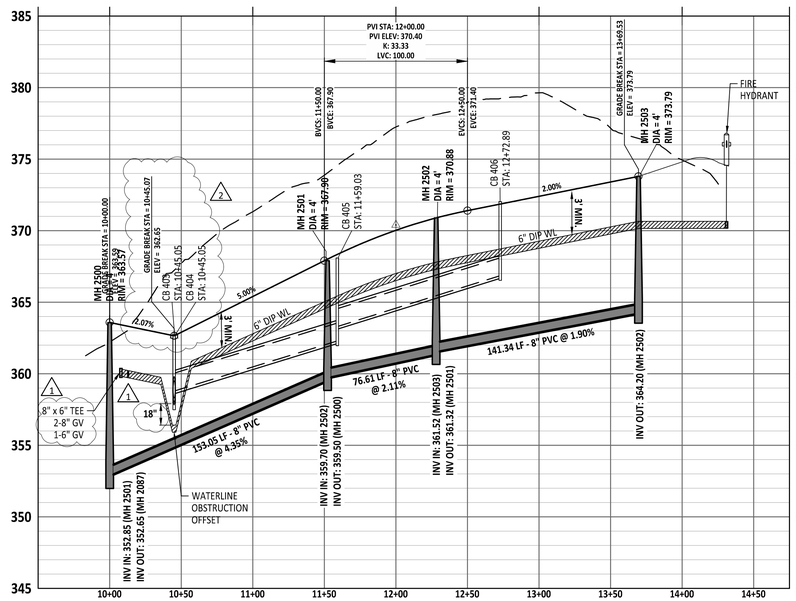
(IN FEET)
1 inch = 50



CRANAPPLE LANE PROFILE

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:43-04'00'

PRELIMINARY
- DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA
065288
ENGINEER
JAKOB P. KLEIN

NO.	DATE	REVISION:
1	02/03/2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1
2	04/01/2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2

STIPULATION FOR REUSE

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
CUL-DE-SAC AND STUB PLAN AND PROFILES

SHEET NO.:
C12.0

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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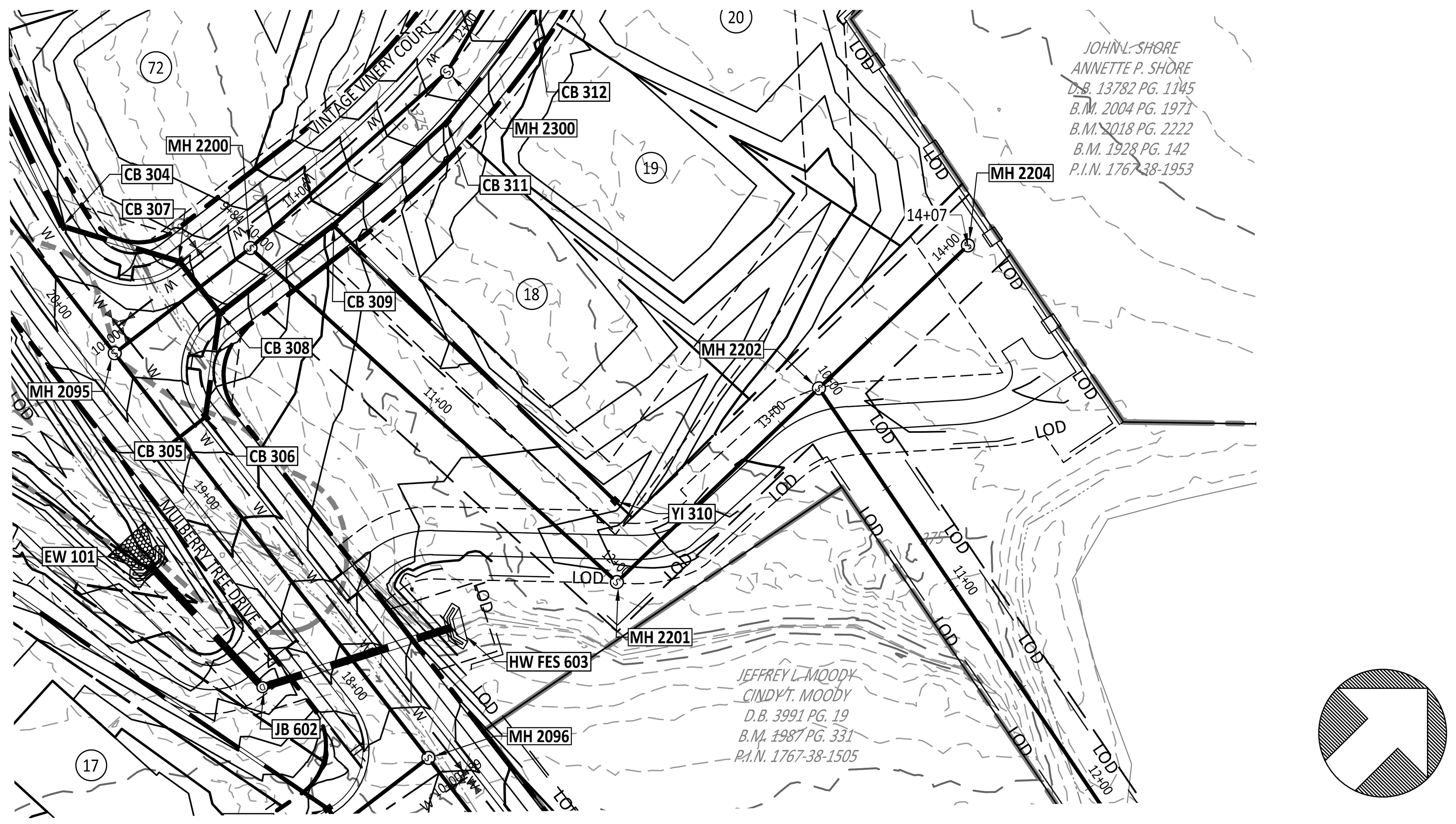
City of Raleigh
Public Utilities Department Permit # _____

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

Z:\Jobs\21-002 Moody Development Trust (R21000)\Dwg_Working Dwgs\Construction Set\12.0 Cul-de-sac & StubPlan and Profiles.dwg April 1, 2025



SEWER OUTFALL (A) AT VINTAGE VINERY COURT PLAN

GRAPHIC SCALE

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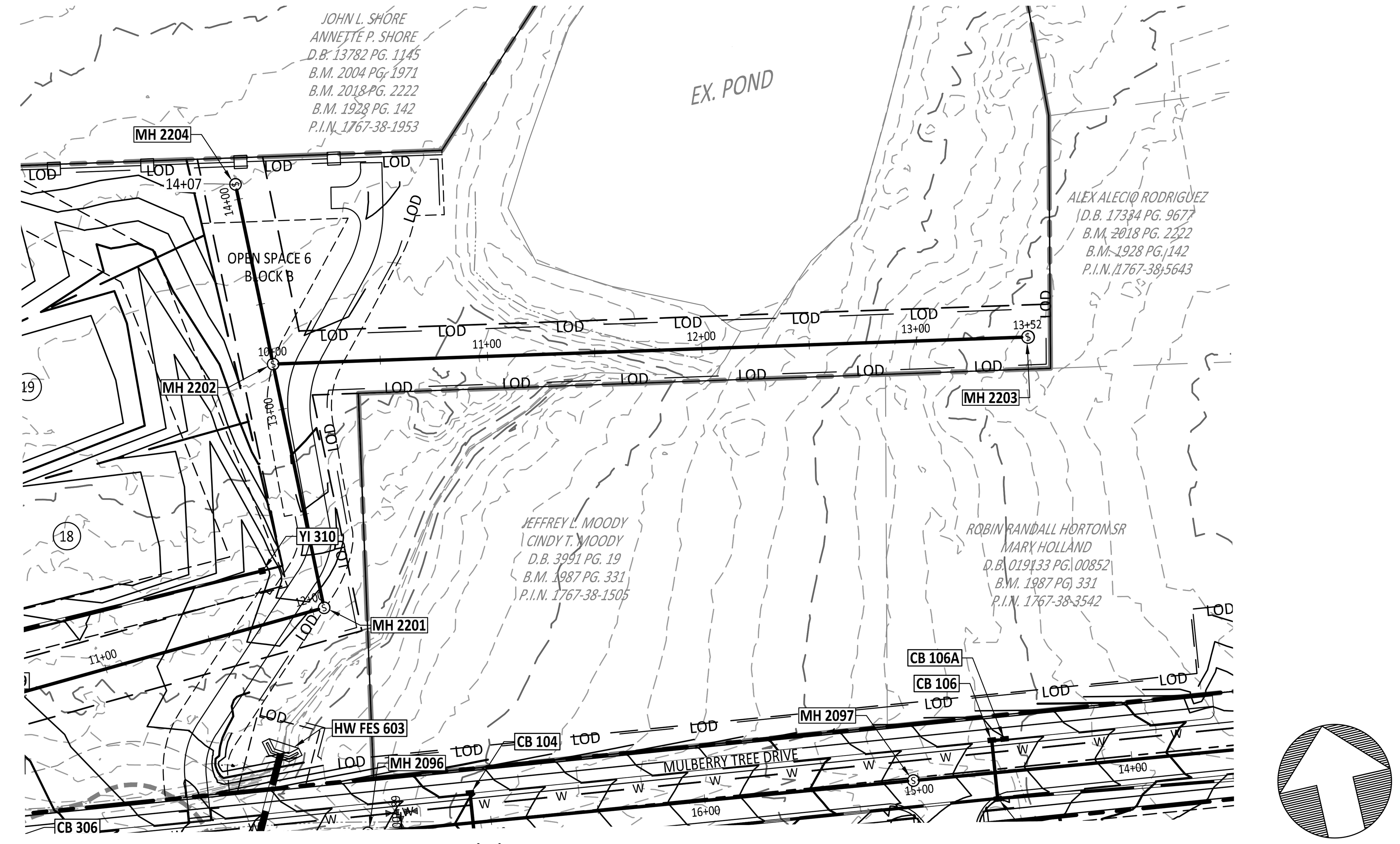
(IN FEET)
1 inch = 50



SEWER OUTFALL (B) AT VINTAGE VINERY COURT PLAN

GRAPHIC SCALE

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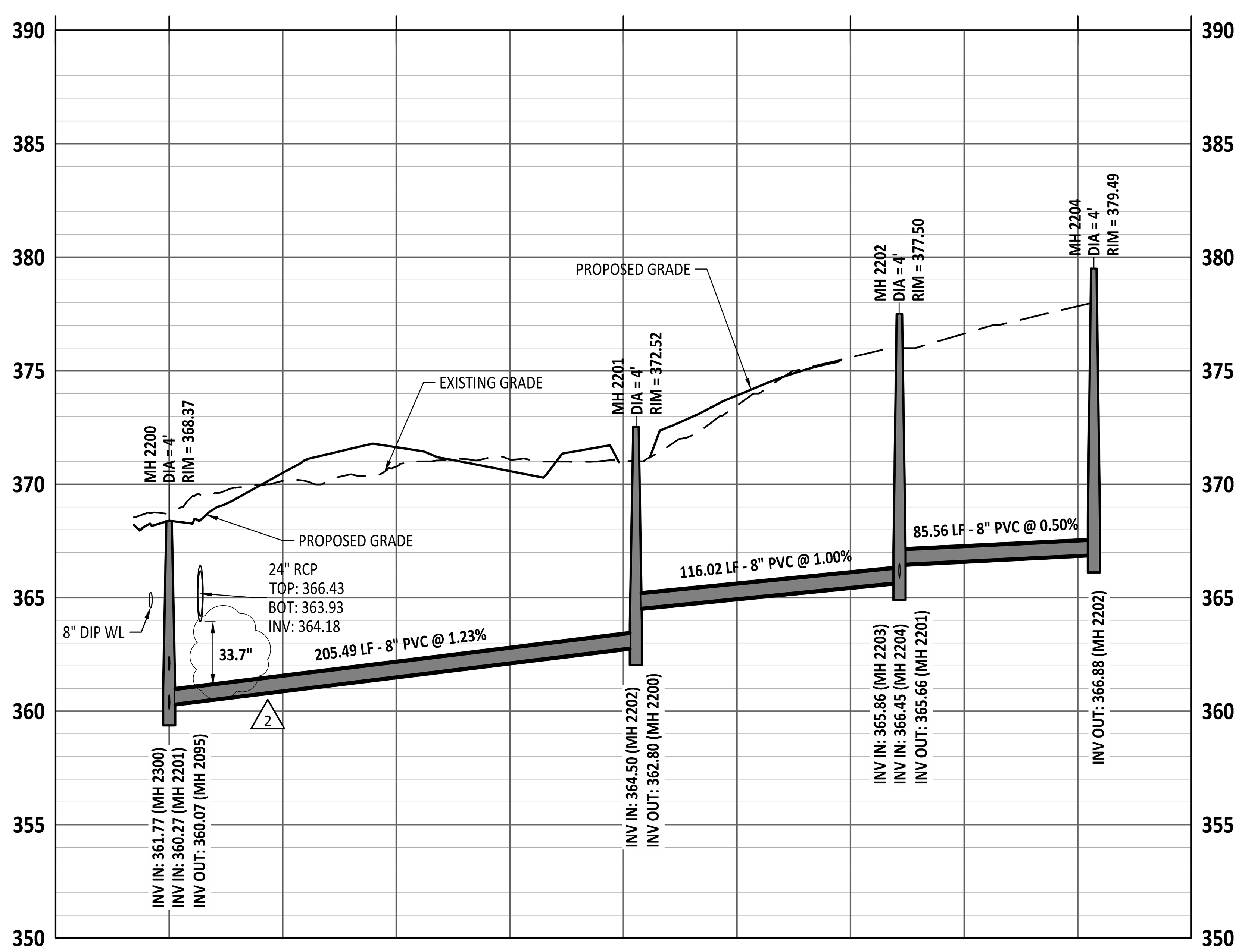
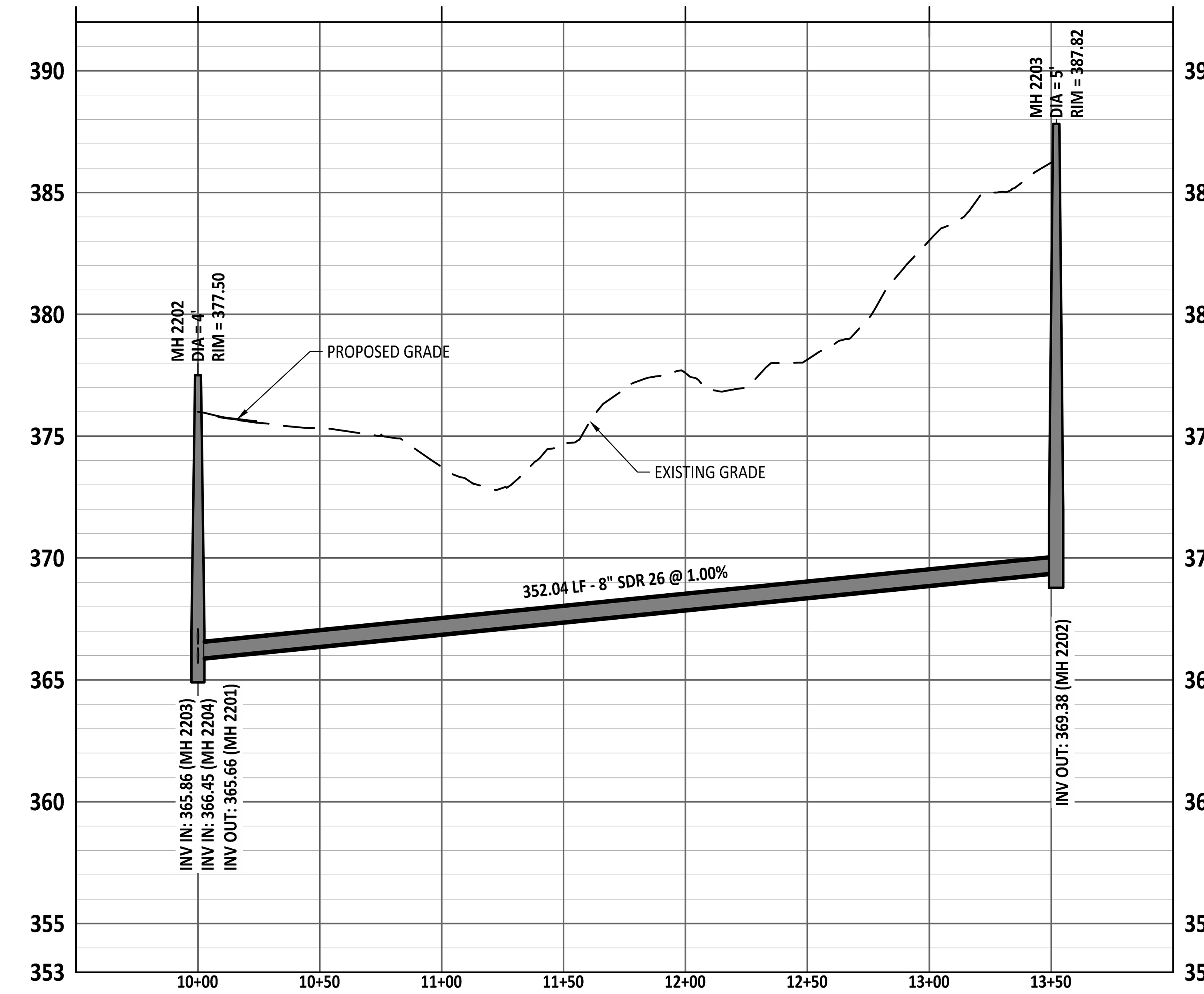
(IN FEET)
1 inch = 50



SEWER OUTFALL (A) AT VINTAGE VINERY COURT PROFILE



SEWER OUTFALL (B) AT VINTAGE VINERY COURT PROFILE

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City of Raleigh
Public Utilities Department Permit # ____________

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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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:44-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

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

STIPULATION FOR REUSE

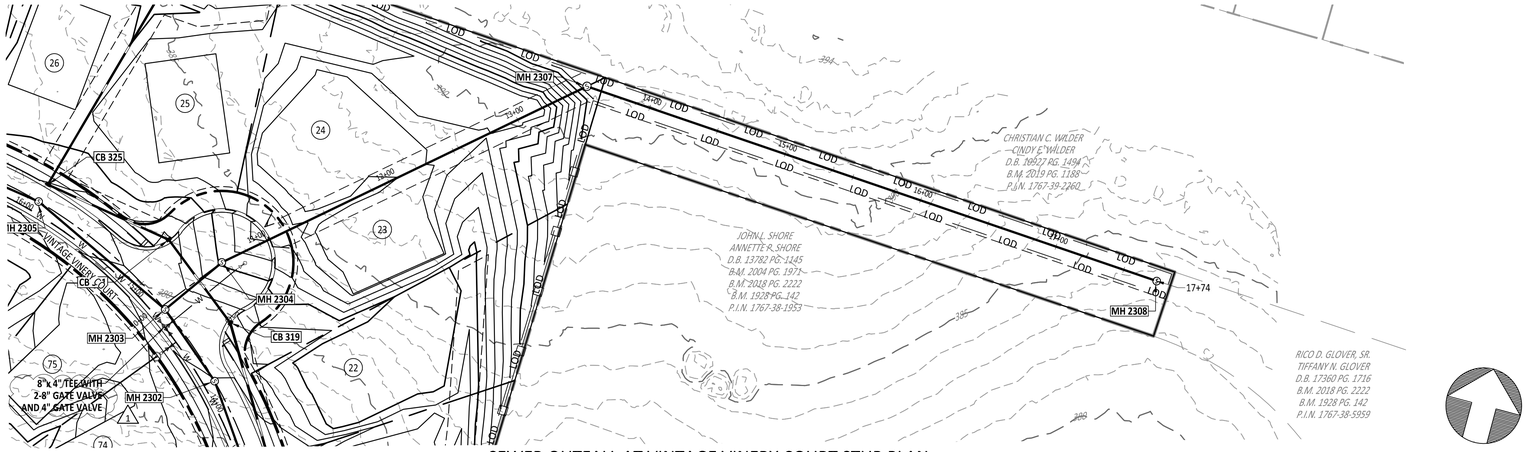
THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

SEWER OUTFALL

SHEET NO.:
C13.0



SEWER OUTFALL AT VINTAGE VINERY COURT STUB PLAN

GRAPHIC SCALE

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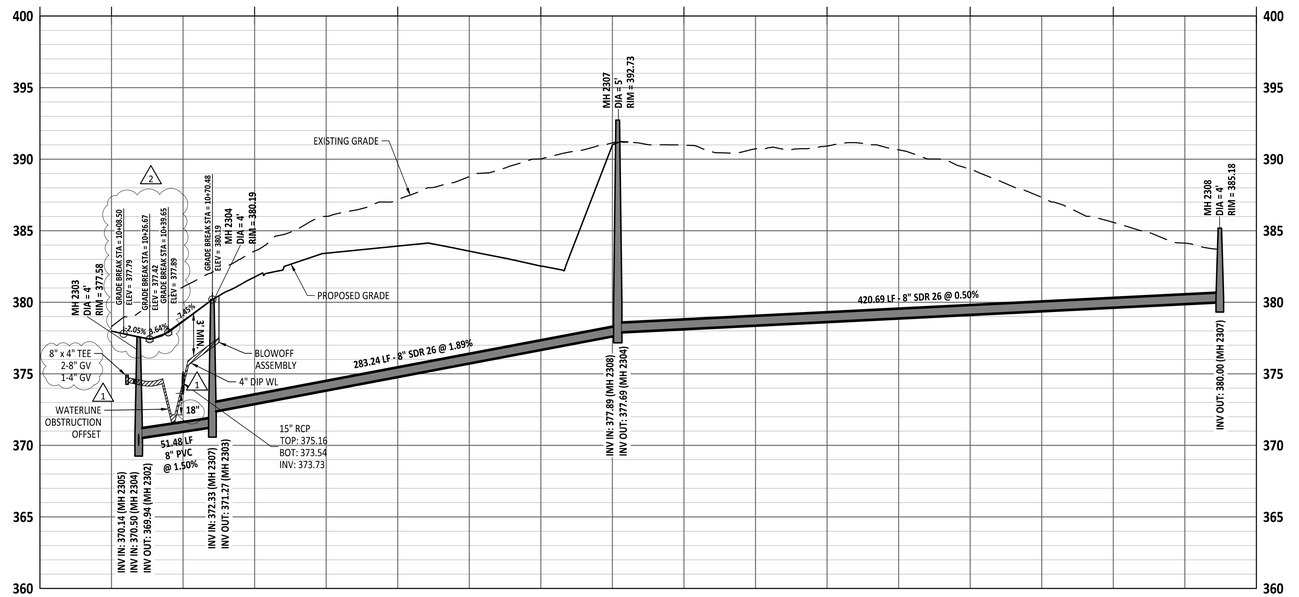
(IN FEET)
1 inch = 50



SEWER OUTFALL AT VINTAGE VINERY COURT STUB PROFILE

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:45-04'00'

NORTH CAROLINA
PROFESSIONAL ENGINEER
36528
JAKOB P. KLEIN

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

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

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 & SM
DATE: 02/03/2025

SHEET TITLE:

SEWER OUTFALL

SHEET NO.:

C13.1

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
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City of Raleigh
Public Utilities Department Permit # _____

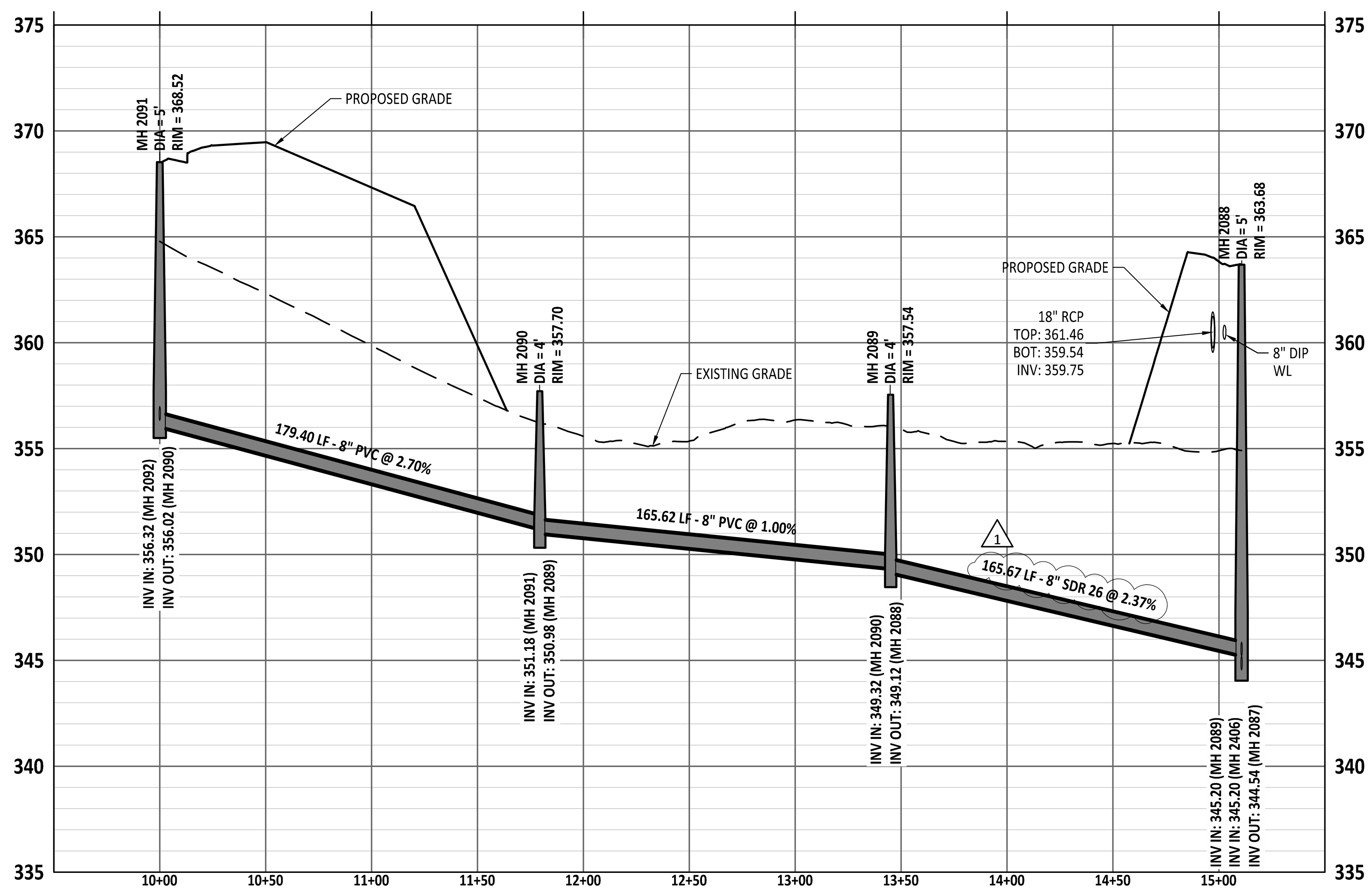
North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\21-002 Moody Development Tract (8210003)\Revit_Working Dwgs\Construction Set\13.0 Sewer Outfall Plan and Profile.dwg April 1, 2025

SEWER OUTFALL AT MULBERRY AND TANSLEY PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 50



SEWER OUTFALL AT MULBERRY AND TANSLEY PROFILE

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:46-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

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

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

SEWER OUTFALL

SHEET NO.: C13.2

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
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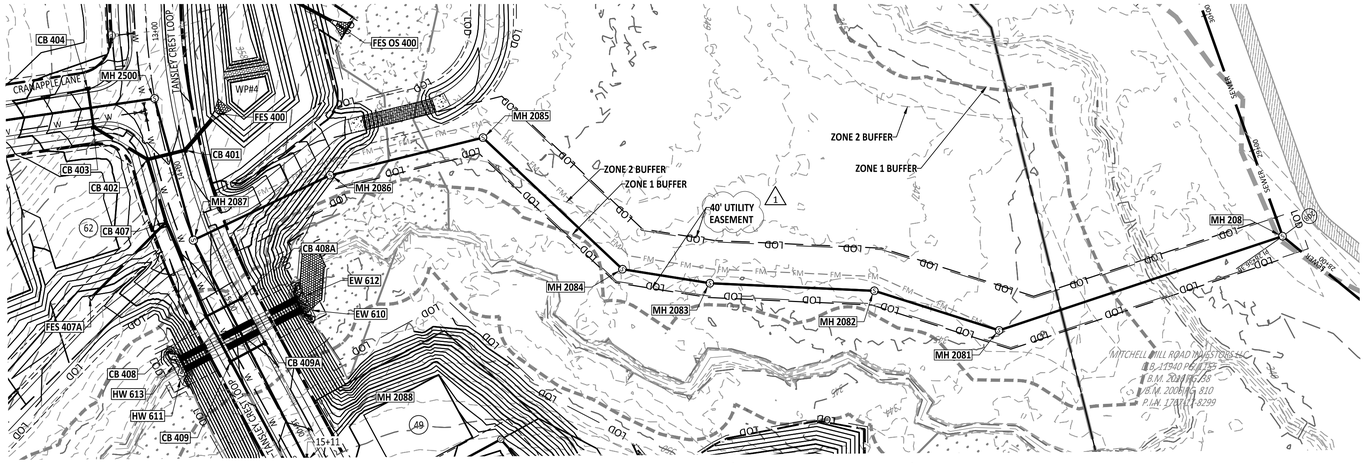
City of Raleigh
Public Utilities Department Permit # ____________

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

April 1, 2025

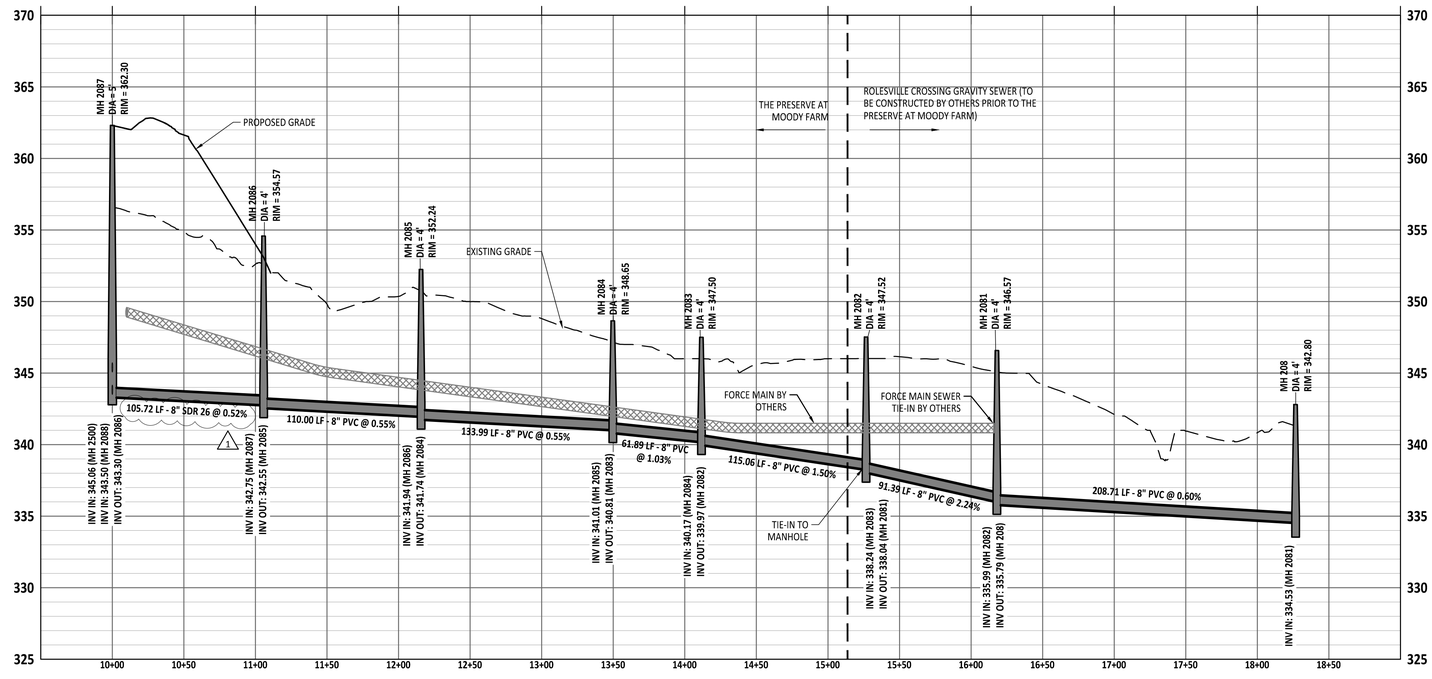


SEWER OUTFALL AT TANSLEY CREST LOOP (TIE-IN TO KALAS FALLS) PLAN

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50



SEWER OUTFALL AT TANSLEY CREST LOOP (TIE-IN TO KALAS FALLS) PROFILE

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

Public
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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
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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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:47-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045528 JAKOB P. KLEIN

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

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

STIPULATION FOR REUSE

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

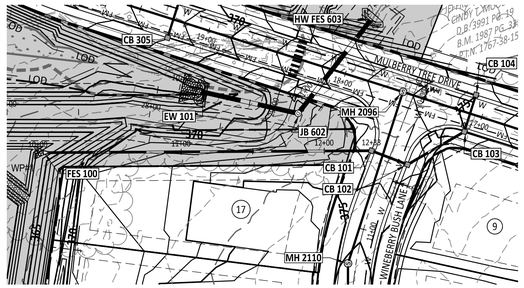
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

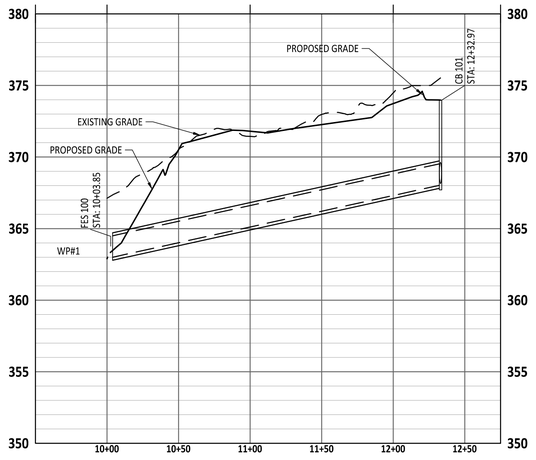
SEWER OUTFALL

SHEET NO.:
C13.3

Z:\Jobs\21-002 Moody Development Tract (R21000)\Dwgs_Working Dwgs\Construction Set\13.0 Sewer Outfall Plan and Profile.dwg April 1, 2025



CB 101 TO FES 100 PLAN



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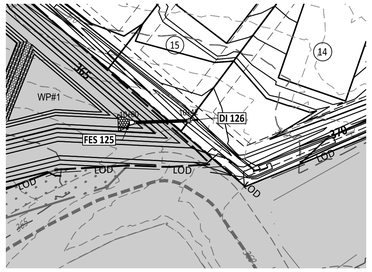
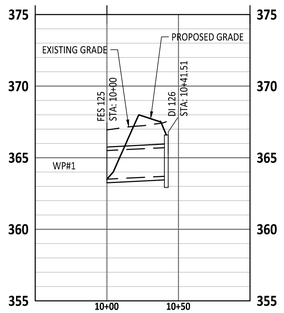
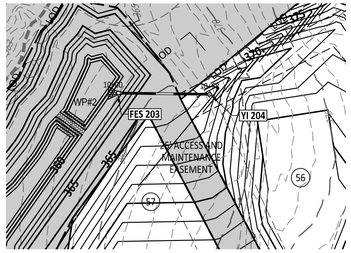


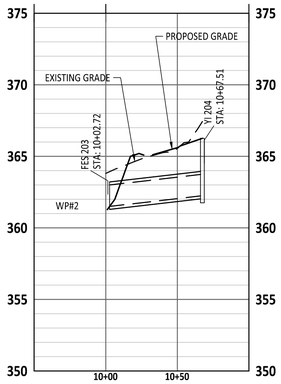
DI 126 TO FES 125 PLAN



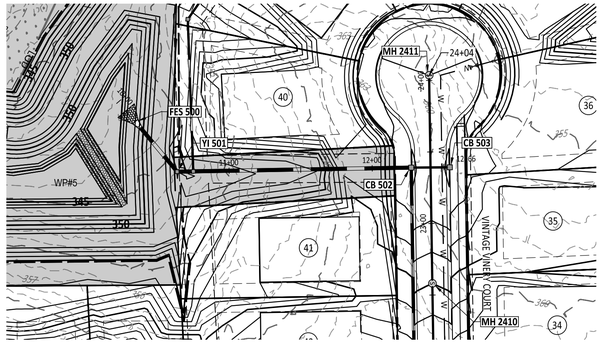
DI 126 TO FES 125 PROFILE



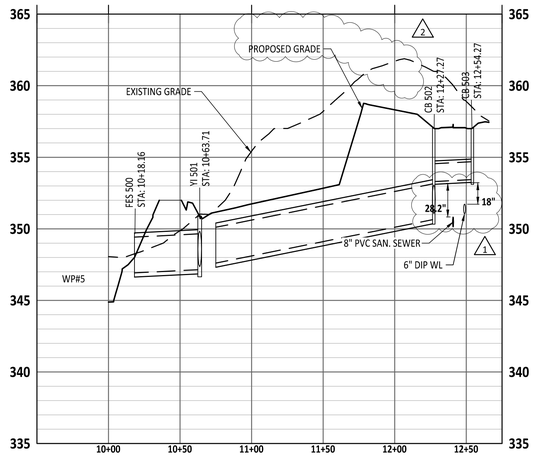
YI 204 TO FES 203 PLAN



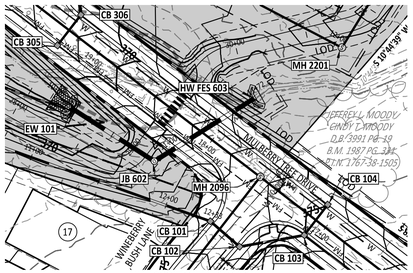
YI 204 TO FES 203 PROFILE



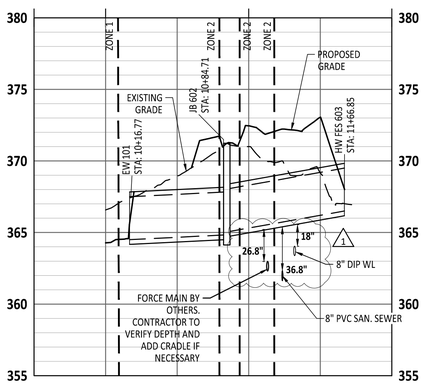
CB 503 TO FES 500 PROFILE



CB 503 TO FES 500 PROFILE



HW 603 TO EW 101 PLAN



HW 603 TO EW 101 PROFILE

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:48-04'00'

PRELIMINARY
NOT FOR RECORDATION, CONVEYANCES OR SALES
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER
JAKOB P. KLEIN
045528

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

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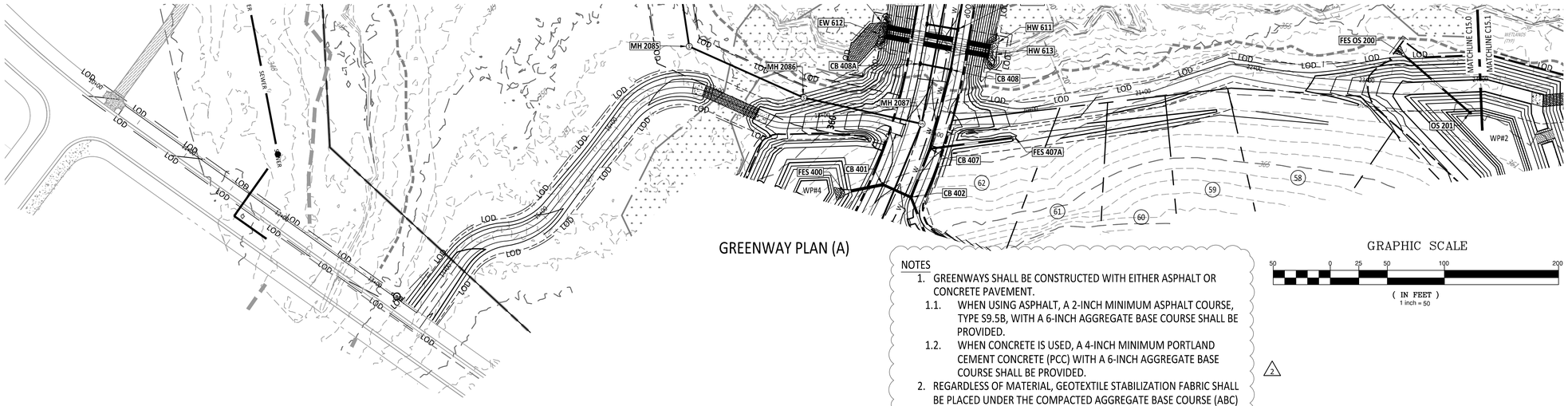
THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
STORM OUTFALL PLAN AND PROFILES

SHEET NO.:
C14.0

Z:\Jobs\21-002 Moody Development Tract (8210003)\Dwgs_Working Dwgs\Construction Set\14.0-Storm Outfall Plan and Profile.dwg April 1, 2025



GREENWAY PLAN (A)

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

NOTES

1. GREENWAYS SHALL BE CONSTRUCTED WITH EITHER ASPHALT OR CONCRETE PAVEMENT.
   - 1.1. WHEN USING ASPHALT, A 2-INCH MINIMUM ASPHALT COURSE, TYPE S9.5B, WITH A 6-INCH AGGREGATE BASE COURSE SHALL BE PROVIDED.
   - 1.2. WHEN CONCRETE IS USED, A 4-INCH MINIMUM PORTLAND CEMENT CONCRETE (PCC) WITH A 6-INCH AGGREGATE BASE COURSE SHALL BE PROVIDED.
2. REGARDLESS OF MATERIAL, GEOTEXTILE STABILIZATION FABRIC SHALL BE PLACED UNDER THE COMPACTED AGGREGATE BASE COURSE (ABC) THE ENTIRE LENGTH AND WIDTH OF THE GREENWAY.

△2

GREENWAY PROFILE (A)

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
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

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

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:50-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 052628 JAKOB P. KLEIN

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

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1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1
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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 & SM
DATE: 02/03/2025

SHEET TITLE:
GREENWAY PLAN AND PROFILE

SHEET NO.: 1 **C15.0**

Z:\Jobs\21-002 Moody Development Trust (P21002)\Dwg_Working Dwgs\Construction Set\15.0 Greenway Plan and Profile.dwg April 1, 2025