ZONING CONDITIONS FOR THE MERRITT RESERVE

REZ-24-01

PINS 1758-92-8330 (PORTION OF), 1768-23-6815 AND 1768-32-8863 (PORTION OF)

1. REFER TO THE ASSOCIATED CONCEPT PLAN WITH REZ-24-01, APPROVED ON 11/07.

2. NO SINGLE TOWNHOUSE BUILDING SHALL CONTAIN MORE THAN SIX UNITS.

3. CONSTRUCTION OF THE ON-SITE AMENITIES SHALL BE COMPLETED ON OR BEFORE THE ISSUANCE OF THE CERTIFICATE OF COMPLIANCE/OCCUPANCY FOR THE 300TH UNIT.

4. THIS WILL BE AN AGE-RESTRICTED DEVELOPMENT LIMITED TO RESIDENTS AGED 55 AND OLDER IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR AGE RESTRICTED HOUSING ESTABLISHED BY THE US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.

5. NO MORE THAN 505 UNITS WILL BE PERMITTED FOR THE DEVELOPMENT WITH THE MAXIMUM NUMBER OF ATTACHED UNITS LIMITED TO 278.

6. THE FOLLOWING USES ARE PROHIBITED IN THE PORTION OF THE SITE TO BE ZONED GENERAL COMMERCIAL DISTRICT: TATTOO ESTABLISHMENT, VAPE AND TOBACCO STORE, VEHICLE RENTAL, AND SALES.

7. THE FOLLOWING USES ARE PROHIBITED IN THE PORTION OF THE SITE TO BE ZONED RESIDENTIAL MEDIUM DENSITY: TELECOMMUNICATIONS TOWER

8. THE DEVELOPER SHALL INSTALL A TYPE 2 BUFFER IN THE SOUTHWEST CORNER OF THE PROPERTY AS SHOWN ON EXHIBIT B WITH REZ-24-01, APPROVED ON 11/07.

9. ONE (1) BUILDING CONSISTING OF TWO (2) TOWNHOME UNITS SHALL BE DEVELOPED AND DONATED AS PART OF HEROES FOR HOME OR SIMILAR ORGANIZATION PROVIDING HOMES TO VETERANS. DEVELOPER SHALL BE ENTITLED TO A WAIVER OF ALL TOWN OF ROLESVILLE PERMIT FEES FOR THESE UNITS.

10. ALL SINGLE-FAMILY DETACHED DWELLINGS SHALL HAVE THE FOLLOWING FEATURES:

A) AT LEAST ONE (1) SINGLE OR DOUBLE CAR GARAGE;
B) ALL GARAGE DOORS SHALL HAVE WINDOWS;
C) GROUND FLOOR ELEVATION AT THE FRONT DOOR SHALL BE MINIMUM OF 12" ABOVE AVERAGE GRADE ACROSS THE FRONT FAÇADE OF THE HOUSE.
D) IF MASONRY IS NOT THE PREDOMINANT FIRST FLOOR FINISH, THEN THE FRONT ELEVATION SHALL HAVE 2 TYPES OF SIDING. FOR EXAMPLE, HORIZONTAL SIDING MAY BE COMBINED WITH SHAKE/BOARD AND BATTEN;
E) ROOF MATERIALS SHALL BE ASPHALT SHINGLES, METAL COPPER OR WOOD;
F) ALL WINDOWS ON FRONT FAÇADE SHALL HAVE SHUTTERS OR WINDOW TRIM;
G) NO SINGLE-FAMILY DETACHED HOME SHALL BE CONSTRUCTED WITH A FRONT ELEVATION OR COLOR PALETTE THAT IS IDENTICAL TO THE HOME ON EITHER SIDE OF IT OR DIRECTLY ACROSS FROM IT; AND
H) A VARIED COLOR PALETTE SHALL BE USED THROUGHOUT THE SUBDIVISION.

11. ALL TOWNHOUSE DWELLINGS SHALL HAVE THE FOLLOWING FEATURES:

A) ONE (1) SINGLE OR DOUBLE CAR GARAGE
B) IF MASONRY IS NOT THE PREDOMINANT FIRST FLOOR FINISH, THEN THE FRONT ELEVATION SHALL HAVE 2 TYPES OF SIDING. FOR EXAMPLE, HORIZONTAL SIDING MAY BE COMBINED WITH SHAKE/BOARD AND BATTEN;
C) ROOF MATERIALS SHALL BE ASPHALT SHINGLES, METAL, COPPER OR WOOD;
D) NO TOWNHOUSE SHALL BE PAINTED A COLOR THAT IS IDENTICAL TO THE HOME ADJACENT ON EITHER SIDE OF IT; AND A VARIED PALETTE SHALL BE USED THROUGHOUT THE SUBDIVISION.

12. A HOMEOWNERS ASSOCIATION (HOA) SHALL BE ESTABLISHED IN ACCORDANCE WITH THE ROLESVILLE LAND DEVELOPMENT ORDINANCE. HOA DOCUMENTS MUST BE RECORDED WITH THE FINAL PLAT.

13. GARBAGE AND PET WASTE RECEPTACLES IN OPEN SPACE AREAS TO BE MAINTAINED BY THE HOA.

14. CONSTRUCTION DOCUMENTS FOR THE PROPERTY TO INCLUDE ON-LOT GRADING INCLUDING (I) PROPOSED FINISHED FLOOR ELEVATIONS. (II) 4- CORNER FINISHED-PAD SPOT ELEVATIONS. (III) 1-FOOT CONTOURS OF THE PROPOSED GRADES, (IV) PROPOSED HIGH POINT(S), (V) PROPOSED SWALE DIRECTIONS, SPOT ELEVATIONS, AND SLOPES AT NOT LESS THAN 1% AND (VI) OTHER INFORMATION AS NECESSARY TO DEMONSTRATE FUTURE FEASIBILITY OF COMPLIANCE WITH SECTION R401.3 OF THE NC RESIDENTIAL CODE.

15. THE DEVELOPER SHALL DESIGN AND CONSTRUCT A PUBLIC GREENWAY ALONG THE SOUTHERN PROPERTY BOUNDARY ADJACENT TO WITHIN THE PROPOSED SEWER EASEMENT AS SHOWN ON EXHIBIT C. ADDITIONAL DEDICATION OF A 40' GREENWAY EASEMENT ALONG THE LILIES FAMILY, LLC PROPERTY WILL BE FINALIZED AND DEDICATED TO THE TOWN ONCE THE APPROVAL HAS BEEN GRANTED BY THE TOWN OF ROLESVILLE FOR THE FUTURE GREENWAY CONNECTION WITH THE EXTENSION OF FOWLER ROAD.

OVERALL SITE DATA	
PIN	1768328863, 1768236815, 1758928330
DEED BOOK AND PAGE #	010194 016287 009920 02092 - 00077 - 01879
ZONING	RH-CZ & GC-CZ
TOTAL TRACT ACREAGE	16.745/ 98.166/ 37.367 TOTAL=152.278 AC
WATERSHED	HARRIS CREEK
TOWNSHIP	WAKE FOREST
RIVER BASIN	LOWER NEUSE
EXISTING USAGE	AGRICULTURE
PROPOSED USAGE	MIXED USE
STREAM CLASS	C;NSW
EXISTING TREE COVERAGE	12.96 AC
EXISTING IMPERVIOUS	.04 AC
PROPOSED IMPERVIOUS	54.67 AC
DENSITY	REQUIRED AND PROVIDED 3 UNITS/ACRE
FEMA FLOOD MAP	PANEL 1768 DATE JULY 19,2022
SINGLE FAMILY DETACHED	REQUIRED AND PROVIDED 4,000 SF MIN. LOT AREA
ATTACHED UNITS	REQUIRED AND PROVIDED 1,900 SF MIN. LOT AREA
OPEN SPACE	REQUIRED 21.47 AC (15%) PROVIDED 37.65 AC (26.3%)
40' SINGLE FAMILY 50' SINGLE FAMILY ATTACHED DWELLINGS	138 99 266 TOTAL 503
MINIMUM BUILDING SETBACKS FRONT SETBACK SIDE SETBACK REAR SETBACK CORNER SIDE	REQUIRED DETACHED 15' 10' 15' 15'
MINIMUM BUILDING SETBACKS FRONT SETBACK SIDE SETBACK REAR SETBACK CORNER SIDE	PROVIDED DETACHED 20' 10' 15' 15'

MINIMUM BUILDING SETBACKS	REQUIRED ATTACHED
FRONT SETBACK	15'
SIDE SETBACK	5'
REAR SETBACK	15'
CORNER SIDE	15'
MINIMUM BUILDING SETBACKS FRONT SETBACK SIDE SETBACK REAR SETBACK CORNER SIDE	PROVIDED DETACHED 20' 5' 15' 15'
PARKING SPACES	PROPOSED AND REQUIRED 2 PARKING SPOTS PER UNIT FOR SINGLE FAMILY ATTACHED AND DETACHED

NOTE: PARKING CALCULATIONS FOR THE MAIL KIOSK WILL BE PROVIDED AND DONE WITH CD SUBMITTAL

RALEIGH WATER CONDITIONS:

THE FOLLOWING MUST BE COMPLETED PRIOR TO APPROVAL OF CONSTRUCTION DRAWINGS:

1. A DOWNSTREAM SEWER CAPACITY STUDY IN COMPLIANCE WITH THE PUBLIC UTILITIES DESIGN MANUAL SHALL BE SUBMITTED BY THE PROJECT ENGINEER FOR REVIEW AND APPROVAL.
2. A WATER MODEL IN COMPLIANCE WITH THE PUBLIC UTILITIES DESIGN MANUAL SHALL BE SUBMITTED BY THE PROJECT ENGINEER FOR REVIEW AND APPROVAL.
3. A DEED SHALL BE RECORDED WITH RALEIGH'S DEED TEMPLATE FOR ALL NECESSARY OFFSITE CITY OF RALEIGH SANITARY SEWER EASEMENTS TO ACCOMMODATE FUTURE SEWER LINE CONSTRUCTION.

PROJECT NARRATIVE

THIS PROJECT IS LOCATED IN ROLESVILLE, NORTH CAROLINA ASIDE THE ROLESVILLE ROAD FOWLER ROAD INTERSECTION. IT DRAINS TO TRIBUTARIES OF HARRIS BRANCH WHICH IS PART OF THE NEUSE RIVER BASIN. THE PROJECT CONSIST OF THREE SEPARATE PARCELS WITH A TOTAL PROJECT AREA OF THE PROJECT IS 152.278 AC. THE PROJECT IS ZONED FOR HIGH DENSITY, RESIDENTIAL AND GENERAL COMMERCIAL WITH A RESIDENTIAL DENSITY OF +/- 3 UNITS AN ACRE.

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 CMP PROFESSIONAL LAND SURVEYOR,PL.
4. THE ZONING ENTITLEMENTS ACHIEVED/FACILITATING THIS PRELIM PLAT IS REZ-24-01, APPROVED 11-7-2024 BY TOWN BOARD.
5. OPEN SPACE LOTS AND SCM'S WILL BE OWNED AND MAINTAINED BY HOA.
6. ALL PROPOSED STREETS WILL BE DEDICATED TO TOWN AND THUS OWNED AND MAINTAINED BY TOWN.
7. ALL PUBLIC WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.
8. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE EXISTING UTILITIES AND NOTIFY THE PROJECT ENGINEER (919-469-1101) OF ANY CONFLICTS.
9. ALL CONDITIONS OF SUP 19-01 AND MA 19-02 R&PUD ARE APPLICABLE AND WILL BE MET.
10. SIGNS REQUIRE A SEPARATE SIGN PACKAGE TO BE APPROVED BY THE TOWN.

CONSTRUCTION DRAWINGS FOR MERRITT RESERVE

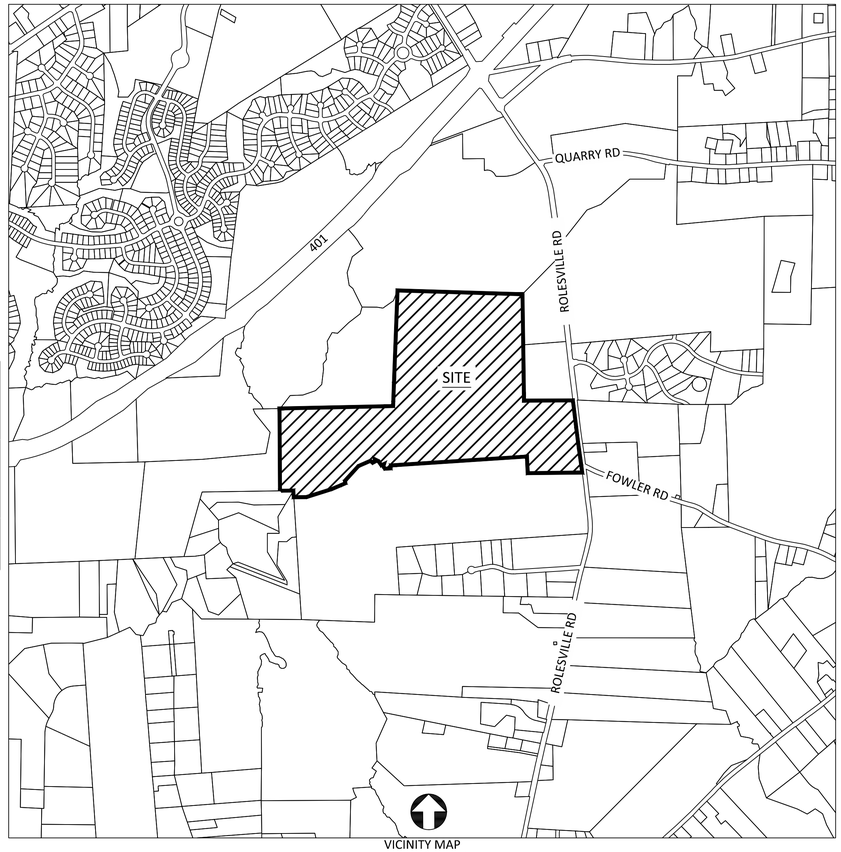
SITUATED AT

1224 ROLESVILLE ROAD

TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

PROJECT NUMBER = CID-25-XX

1. Update to CID-25-02



VICINITY MAP
SCALE: 1"=1000'

Sheet List Table	
Sheet Number	Sheet Title
G-001	COVER
G-002	Phasing Plan
G-003	Lot Area per Phase
G-004	General Notes
G-005 - G-008	Schedule
CV-100	Existing Conditions
CX-100	Demolition Plan
CE-100	Erosion Control Phase 1 Stage 1 Overall
CE-101 - CE-103	Erosion Control Phase 1 Stage 1
CE-110	Erosion Control Phase 1 Stage 2 Overall
CE-111 - CE-118	Erosion Control Phase 1 Stage 2
CE-120	Erosion Control Phase 1 Stage 3 Overall
CE-121 - CE-128	Erosion Control Phase 1 Stage 3
CE-130	Erosion Control Phase 1 NDPES Plan
CE-140 - CE-146	Erosion Control Plan & Profile Phase 1
CE-147	Erosion Control Culvert Crossing Phase 1
CE-200	Erosion Control Phase 2 & 3 Stage 1 Overall
CE-201 - CE-203	Erosion Control Phase 2 & 3 Stage 1
CE-210	Erosion Control Phase 2 & 3 Stage 2 Overall
CE-211 - CE-217	Erosion Control Phase 2 & 3 Stage 2
CE-220	Erosion Control Phase 2 & 3 Stage 3 Overall
CE-221 - CE-227	Erosion Control Phase 2 & 3 Stage 3
CE-230	Erosion Control Phase 2 & 3 NDPES Plan
CE-240 - CE-241	Erosion Control Culvert Crossing Phase 2 & 3
CE-500 - CE-504	Erosion Control Details
CS-100	Site Plan Overall
CS-101 - CS-109	Site Plan
CS-110	Open Space Plan
CS-200 - CS-203	Fowler Road Plan & Profile
CS-210 - CS-211	Merritt Reserve Dr Plan & Profile
CS-212	Old Millstone Court Plan & Profile
CS-220 - CS-222	Jocund Street Plan & Profile
CS-230 - CS-231	Stone Reserve Way Plan & Profile
CS-232 - CS-233	Merritt Ridge Ln Plan & Profile
CS-240 - CS-242	Davis Rock Place Plan & Profile
CS-250	Bent Iron Lane Plan & Profile
CS-251 - CS-252	Strips Plan & Profile
CS-265	Tripp Ledge Way Plan & Profile
CS-280	Split Granite Court Plan & Profile
CS-280	Lineage Place Plan & Profile
CS-290 - CS-292	Fetching Place Plan & Profile
CS-298	Deep Canyoun Court Plan & Profile
CS-500 - CS-502	NCDOT Details
CS-503	Site Details
CU-100	Utility Plan Overall
CU-101 - CU-109	Utility Plan
CU-200 - CU-203	Sanitary Sewer Plan & Profile
CU-500 - CU-503	Utility Details
CG-100	Grading and Drainage Overall Plan
CG-101 - CG-109	Grading and Drainage
CG-401	SCM 1A Detail
CG-402	SCM 1B Detail
CG-403	SCM 1C Detail
CG-404	SCM 2 Detail
CG-405	SCM 4 Detail
CG-406	SCM 5A Detail
CG-407	SCM 5B Detail
CG-408	SCM 5C Detail
CG-409	SCM 6A Detail
CG-410	SCM 6B Detail
CG-411	SCM 7 Detail
CT-100	Striping Plan
CT-101	Road Improvement Plan
CT-200	Fowler Road Sight Plan & Profile
CT-201	Merritt Reserve Dr Sight Plan & Profile
LP-100	Overall Landscape Plan
LP-101 - LP-108	Landscape Plan
LP-500	Landscape Details

3. A signing and striping plan is required.

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 # _____

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 DEPARMENT AT (919) 996-4540 AT LEAST TWENTY FOUR HOURS PRIOR TO BEGINNING ANY OF THEIR CONSTRUCTION.

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

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

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

2. All comments provided as part of the 3rd PSP submittal still apply and should be completed in the next submittal.

PROPRTY OWNER:	WILLIAM MERRITT & KATHY LLAMAS 156 MONTERERY ST. POINCIANA FL 34759 1768-23-6815 WESLEY AND ROXEY WILKINS 115 W. YOUNG ST. ROLESVILLE, NC 27571 1768-23-6815 EDWARD AND LINDA SELF 114 MAUDE LA. MT. AIRY, NC 27030 1768- 23-6815 JAMES AND SUE MERRITT 3523 VIOLET CT. WILMINGTON, NC 28409 1768-23-6815 GUNZ/ROGERS PROPERTY BETTY R. GUNZ 1409 MAYLAND AVE. CHALOTTE, NC 28209 1768-32-8863 WILLIAM ROGERS, C/O TEXWEST, LLC PO BOX 101149 FORTH WORTH, TX 76185 1768-32-8863 LILES FAMILY PROPERTY LILES FAMILY, LLC 2524 HOLIDAY AVE. ZEBULON, NC 27597 1758-92-8330
SURVEYOR:	CMP PROFESSIONAL LANDSCAPE, PL CONTACT: MIKE MOSS 206 HIGH HOUSE RD STE 205 WAKE FOREST, NC 27587 919-556-3148
DEVELOPER:	BRD LAND AND INVESTMENT CONTACT: MICHAEL FLEMING 234 KINGSLEY PARK DR STE 110 FORT MILL, SC 29715 919-346-6014
BUFFER/WETLAND:	SAGE ECOLOGICAL SOLUTIONS CONTACT: SEAN CLARK 3707 SWIFT CREEK DRIVE RALEIGH, NC 27606 919-559-1537

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

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

PRELIMINARY
NOT FOR RECORDATION, CONVEYANCE OR SALE
DO NOT USE FOR CONSTRUCTION
DAVID HOWARD HARRIS 39528 REGISTERED PROFESSIONAL ENGINEER
FOR INFORMATION, ONLY

NO.	DATE	REVISION:

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.

MERRITT RESERVE
COVER
ROLESVILLE RD
WAKE COUNTY NC 27312

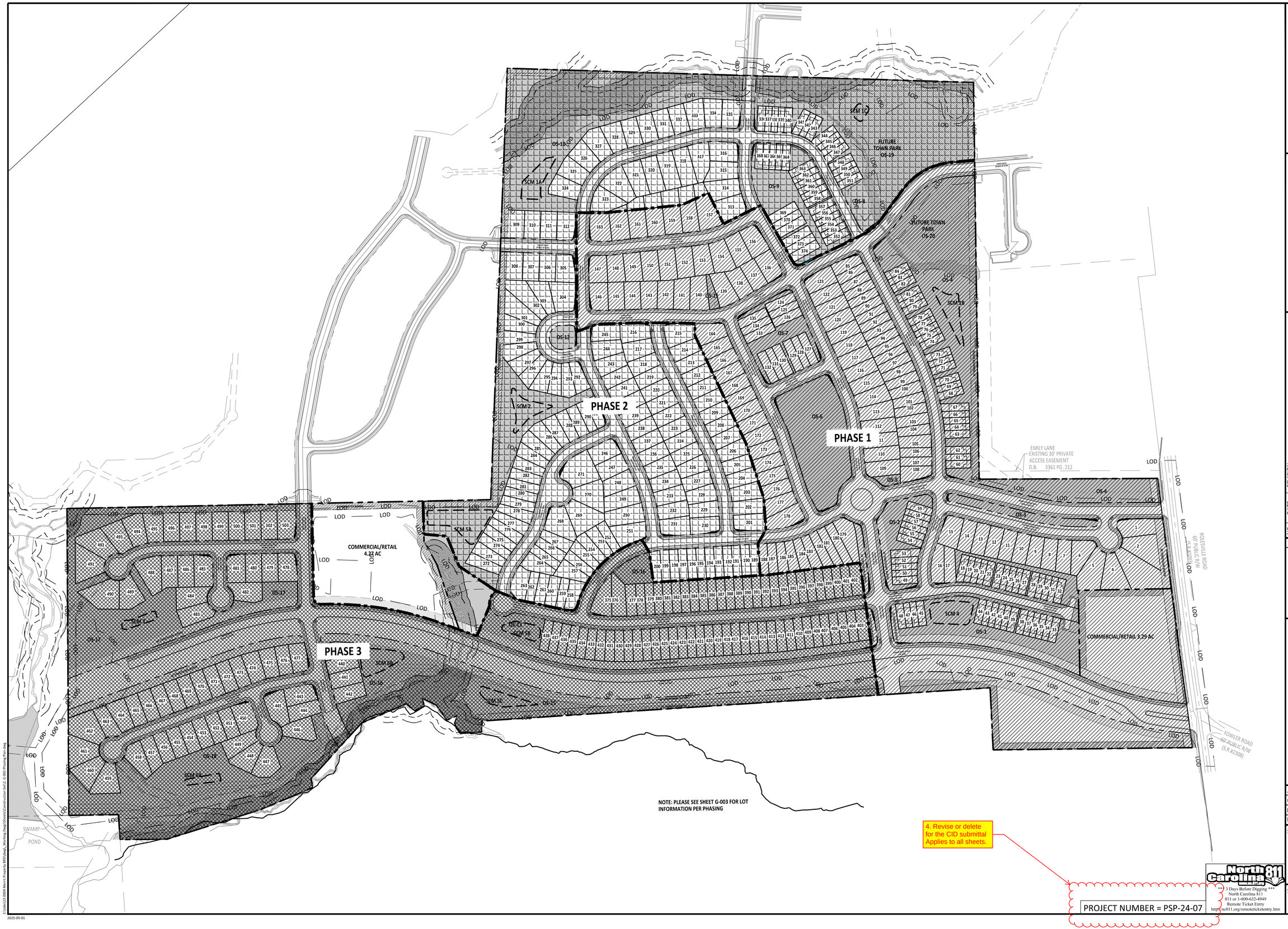
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
COVER

SHEET NO.: G-001

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\23-0004 Merrit Property (BRD)\dwg_Working Dwgs\Sheets\Construction Set\1. G-001 COVER.dwg
2025-05-01



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

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

PRELIMINARY
NOT FOR RECORDATION
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA
JAKOB P. KLEIN
36528
ENGINEER
FOR INFORMATION, ONLY

NO.	DATE	REVISION:

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.

MERRITT RESERVE

PHASING PLAN

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

PHASING PLAN

SHEET NO.:

G-002

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

Z:\Jobs\23-0004 Merritt Property @RR\Revit_ Working Dwgs\Sheets\Construction Set\2. G-002 Phasing Plan.dwg
2025-05-01

PHASE 1	
Number	Area
1	9095.05 Sq. Ft.
2	11574.09 Sq. Ft.
3	16360.63 Sq. Ft.
4	10345.36 Sq. Ft.
5	11983.95 Sq. Ft.
6	8480.70 Sq. Ft.
7	6869.12 Sq. Ft.
8	6486.62 Sq. Ft.
9	6294.22 Sq. Ft.
10	6178.29 Sq. Ft.
11	6113.67 Sq. Ft.
12	6195.15 Sq. Ft.
13	6276.63 Sq. Ft.
14	6320.30 Sq. Ft.
15	8435.19 Sq. Ft.
16	6630.77 Sq. Ft.
17	5682.39 Sq. Ft.
18	3028.05 Sq. Ft.
19	2392.28 Sq. Ft.
20	2316.21 Sq. Ft.
21	2283.25 Sq. Ft.
22	2755.00 Sq. Ft.
23	2755.00 Sq. Ft.
24	2280.00 Sq. Ft.
25	2280.00 Sq. Ft.
26	2280.00 Sq. Ft.
27	2755.00 Sq. Ft.
28	2755.00 Sq. Ft.
29	2280.00 Sq. Ft.
30	2280.00 Sq. Ft.
31	2280.00 Sq. Ft.
32	2755.00 Sq. Ft.
33	2755.00 Sq. Ft.
34	2280.00 Sq. Ft.
35	2280.00 Sq. Ft.
36	2280.00 Sq. Ft.
37	2280.00 Sq. Ft.
38	2755.00 Sq. Ft.
39	2755.00 Sq. Ft.
40	2280.00 Sq. Ft.
41	2280.00 Sq. Ft.
42	2280.00 Sq. Ft.
43	2280.00 Sq. Ft.
44	2755.00 Sq. Ft.
45	2755.00 Sq. Ft.
46	2280.00 Sq. Ft.
47	2280.00 Sq. Ft.
48	2755.00 Sq. Ft.
49	2768.23 Sq. Ft.
50	2287.41 Sq. Ft.
51	2336.67 Sq. Ft.
52	2441.79 Sq. Ft.
53	3174.84 Sq. Ft.
54	2854.50 Sq. Ft.
55	2375.80 Sq. Ft.
56	2387.98 Sq. Ft.
57	2400.17 Sq. Ft.
58	2404.84 Sq. Ft.
59	2836.60 Sq. Ft.
60	2754.43 Sq. Ft.
61	2278.68 Sq. Ft.
62	2752.90 Sq. Ft.
63	2771.05 Sq. Ft.
64	2329.75 Sq. Ft.
65	2378.88 Sq. Ft.
66	2443.19 Sq. Ft.
67	3059.82 Sq. Ft.
68	2781.27 Sq. Ft.
69	2279.17 Sq. Ft.

PHASE 1	
Number	Area
70	2749.45 Sq. Ft.
71	2757.35 Sq. Ft.
72	2297.65 Sq. Ft.
73	2818.07 Sq. Ft.
74	2748.00 Sq. Ft.
75	2272.90 Sq. Ft.
76	2274.63 Sq. Ft.
77	2276.37 Sq. Ft.
78	2752.92 Sq. Ft.
79	2751.87 Sq. Ft.
80	2280.00 Sq. Ft.
81	2755.01 Sq. Ft.
82	2755.00 Sq. Ft.
83	2280.00 Sq. Ft.
84	2755.01 Sq. Ft.
85	5081.43 Sq. Ft.
86	4020.93 Sq. Ft.
87	4043.44 Sq. Ft.
88	4015.16 Sq. Ft.
89	3979.91 Sq. Ft.
90	4083.06 Sq. Ft.
91	4046.63 Sq. Ft.
92	4150.96 Sq. Ft.
93	4113.35 Sq. Ft.
94	4218.87 Sq. Ft.
95	4221.40 Sq. Ft.
96	4271.85 Sq. Ft.
97	4641.42 Sq. Ft.
98	4682.56 Sq. Ft.
99	4660.78 Sq. Ft.
100	4970.86 Sq. Ft.
101	4620.10 Sq. Ft.
102	4569.33 Sq. Ft.
103	5150.04 Sq. Ft.
104	4623.73 Sq. Ft.
105	5688.41 Sq. Ft.
106	4175.96 Sq. Ft.
107	4069.31 Sq. Ft.
108	6172.48 Sq. Ft.
109	7347.34 Sq. Ft.
110	7062.67 Sq. Ft.
111	7015.40 Sq. Ft.
112	7076.87 Sq. Ft.
113	7656.74 Sq. Ft.
114	7456.88 Sq. Ft.
115	6835.25 Sq. Ft.
116	6552.56 Sq. Ft.
117	6517.77 Sq. Ft.
118	6465.75 Sq. Ft.
119	6413.73 Sq. Ft.
120	6361.71 Sq. Ft.
121	6309.68 Sq. Ft.
122	6257.66 Sq. Ft.
123	7687.13 Sq. Ft.
124	3827.18 Sq. Ft.
125	3248.00 Sq. Ft.
126	3828.00 Sq. Ft.
127	4122.75 Sq. Ft.
128	3500.00 Sq. Ft.
129	4125.58 Sq. Ft.
130	4125.00 Sq. Ft.
131	3500.00 Sq. Ft.
132	4123.15 Sq. Ft.
133	3981.23 Sq. Ft.
134	3368.20 Sq. Ft.
135	3873.99 Sq. Ft.
136	7676.13 Sq. Ft.
137	6710.22 Sq. Ft.
138	6850.11 Sq. Ft.

PHASE 1	
Number	Area
139	8573.36 Sq. Ft.
140	8601.45 Sq. Ft.
141	7212.98 Sq. Ft.
142	6623.96 Sq. Ft.
143	6682.79 Sq. Ft.
144	6451.36 Sq. Ft.
145	6451.36 Sq. Ft.
146	7349.25 Sq. Ft.
147	7155.80 Sq. Ft.
148	6685.86 Sq. Ft.
149	7110.42 Sq. Ft.
150	7456.88 Sq. Ft.
151	7722.31 Sq. Ft.
152	7598.94 Sq. Ft.
153	7841.08 Sq. Ft.
154	8727.57 Sq. Ft.
155	7739.95 Sq. Ft.
156	8284.77 Sq. Ft.
157	11483.89 Sq. Ft.
158	10724.11 Sq. Ft.
159	11054.93 Sq. Ft.
160	10562.99 Sq. Ft.
161	9734.29 Sq. Ft.
162	8543.01 Sq. Ft.
163	8909.23 Sq. Ft.
164	7891.33 Sq. Ft.
165	6022.67 Sq. Ft.
166	5824.00 Sq. Ft.
167	5824.00 Sq. Ft.
168	5824.00 Sq. Ft.
169	5824.00 Sq. Ft.
170	5824.00 Sq. Ft.
171	5824.00 Sq. Ft.
172	6330.43 Sq. Ft.
173	5801.15 Sq. Ft.
174	5889.33 Sq. Ft.
175	5886.20 Sq. Ft.
176	5893.47 Sq. Ft.
177	7110.17 Sq. Ft.
178	8951.14 Sq. Ft.
179	8875.02 Sq. Ft.
180	5847.81 Sq. Ft.
181	5287.22 Sq. Ft.
182	5235.83 Sq. Ft.
183	5083.50 Sq. Ft.
184	4562.71 Sq. Ft.
185	4484.92 Sq. Ft.
186	4318.70 Sq. Ft.
187	4107.43 Sq. Ft.
188	4040.05 Sq. Ft.

PHASE 2	
Number	Area
189	4031.48 Sq. Ft.
190	4042.02 Sq. Ft.
191	4031.48 Sq. Ft.
192	4042.02 Sq. Ft.
193	4031.48 Sq. Ft.
194	4042.02 Sq. Ft.
195	4031.48 Sq. Ft.
196	4042.02 Sq. Ft.
197	4031.48 Sq. Ft.
198	4042.02 Sq. Ft.
199	4030.27 Sq. Ft.
200	4303.55 Sq. Ft.
201	7316.33 Sq. Ft.
202	6502.16 Sq. Ft.
203	6676.51 Sq. Ft.
204	6007.27 Sq. Ft.
205	5824.00 Sq. Ft.
206	6348.25 Sq. Ft.
207	5842.89 Sq. Ft.
208	5824.00 Sq. Ft.
209	5824.00 Sq. Ft.
210	5824.00 Sq. Ft.
211	5824.00 Sq. Ft.
212	5824.00 Sq. Ft.
213	5824.00 Sq. Ft.
214	6028.51 Sq. Ft.
215	8552.87 Sq. Ft.
216	7458.98 Sq. Ft.
217	7327.76 Sq. Ft.
218	6222.10 Sq. Ft.
219	5936.00 Sq. Ft.
220	5936.00 Sq. Ft.
221	5936.00 Sq. Ft.
222	5936.00 Sq. Ft.
223	5936.00 Sq. Ft.
224	5932.18 Sq. Ft.
225	5938.89 Sq. Ft.
226	6397.40 Sq. Ft.
227	5807.82 Sq. Ft.
228	6505.18 Sq. Ft.
229	6240.89 Sq. Ft.
230	6809.05 Sq. Ft.
231	7511.07 Sq. Ft.
232	6586.25 Sq. Ft.
233	6563.70 Sq. Ft.
234	6448.35 Sq. Ft.
235	6445.43 Sq. Ft.
236	6057.34 Sq. Ft.
237	5936.00 Sq. Ft.
238	5936.00 Sq. Ft.
239	5936.00 Sq. Ft.
240	5936.00 Sq. Ft.
241	5936.00 Sq. Ft.
242	5824.00 Sq. Ft.
243	6635.53 Sq. Ft.
244	6981.45 Sq. Ft.
245	6873.41 Sq. Ft.
246	7545.77 Sq. Ft.
247	7280.00 Sq. Ft.
248	7534.71 Sq. Ft.
249	8353.37 Sq. Ft.
250	9395.15 Sq. Ft.
251	9247.13 Sq. Ft.
252	4424.61 Sq. Ft.
253	5021.37 Sq. Ft.
254	5049.64 Sq. Ft.
255	4898.88 Sq. Ft.
256	4440.27 Sq. Ft.
257	6062.44 Sq. Ft.

PHASE 2	
Number	Area
258	5875.88 Sq. Ft.
259	3877.82 Sq. Ft.
260	4931.14 Sq. Ft.
261	4649.39 Sq. Ft.
262	3920.18 Sq. Ft.
263	6984.11 Sq. Ft.
264	6029.58 Sq. Ft.
265	4083.01 Sq. Ft.
266	4455.95 Sq. Ft.
267	5080.22 Sq. Ft.
268	10460.72 Sq. Ft.
269	11690.93 Sq. Ft.
270	9955.68 Sq. Ft.
271	13655.68 Sq. Ft.
272	5232.95 Sq. Ft.
273	5191.40 Sq. Ft.
274	4701.91 Sq. Ft.
275	4713.44 Sq. Ft.
276	5032.11 Sq. Ft.
277	5304.80 Sq. Ft.
278	5147.76 Sq. Ft.
279	4514.58 Sq. Ft.
280	4378.81 Sq. Ft.
281	4196.35 Sq. Ft.
282	4512.76 Sq. Ft.
283	4709.01 Sq. Ft.
284	5366.67 Sq. Ft.
285	6251.66 Sq. Ft.
286	6484.34 Sq. Ft.
287	5594.53 Sq. Ft.
288	5143.79 Sq. Ft.
289	4999.05 Sq. Ft.
290	4006.86 Sq. Ft.
291	5099.01 Sq. Ft.
292	5648.61 Sq. Ft.
293	5523.71 Sq. Ft.
294	5058.78 Sq. Ft.
295	5947.63 Sq. Ft.
296	5574.58 Sq. Ft.
297	5727.46 Sq. Ft.
298	6058.71 Sq. Ft.
299	5099.86 Sq. Ft.
300	5792.69 Sq. Ft.
301	8404.45 Sq. Ft.
302	9884.83 Sq. Ft.
303	7194.03 Sq. Ft.
304	7550.87 Sq. Ft.
305	6573.06 Sq. Ft.
306	6475.71 Sq. Ft.
307	6553.73 Sq. Ft.
308	6487.17 Sq. Ft.
309	6487.19 Sq. Ft.
310	6487.19 Sq. Ft.
311	7416.56 Sq. Ft.
312	8688.53 Sq. Ft.
313	8472.72 Sq. Ft.
314	7872.56 Sq. Ft.
315	8963.90 Sq. Ft.
316	8123.63 Sq. Ft.
317	8660.93 Sq. Ft.
318	8843.00 Sq. Ft.
319	8478.55 Sq. Ft.
320	8625.34 Sq. Ft.
321	10191.79 Sq. Ft.
322	7834.87 Sq. Ft.
323	7474.70 Sq. Ft.
324	7593.09 Sq. Ft.
325	8341.25 Sq. Ft.
326	7446.74 Sq. Ft.

PHASE 2	
Number	Area
327	8341.25 Sq. Ft.
328	7446.74 Sq. Ft.
329	6557.50 Sq. Ft.
330	6557.50 Sq. Ft.
331	6557.50 Sq. Ft.
332	6594.91 Sq. Ft.
333	7360.21 Sq. Ft.
334	7238.83 Sq. Ft.
335	7498.37 Sq. Ft.
336	2773.21 Sq. Ft.
337	2304.96 Sq. Ft.
338	2304.96 Sq. Ft.
339	2304.96 Sq. Ft.
340	2790.84 Sq. Ft.
341	2920.95 Sq. Ft.
342	2323.56 Sq. Ft.
343	2818.56 Sq. Ft.
344	2895.80 Sq. Ft.
345	2310.50 Sq. Ft.
346	2299.74 Sq. Ft.
347	2869.29 Sq. Ft.
348	2755.00 Sq. Ft.
349	2280.00 Sq. Ft.
350	2280.00 Sq. Ft.
351	2755.00 Sq. Ft.
352	2952.30 Sq. Ft.
353	2443.30 Sq. Ft.
354	2443.30 Sq. Ft.
355	2443.30 Sq. Ft.
356	2443.30 Sq. Ft.
357	2952.32 Sq. Ft.
358	3014.13 Sq. Ft.
359	2494.45 Sq. Ft.
360	2494.45 Sq. Ft.
361	2494.45 Sq. Ft.
362	2494.45 Sq. Ft.
363	3008.33 Sq. Ft.
364	2886.19 Sq. Ft.
365	2394.72 Sq. Ft.
366	2394.72 Sq. Ft.
367	2394.72 Sq. Ft.
368	2881.67 Sq. Ft.
369	3828.00 Sq. Ft.
370	3248.00 Sq. Ft.
371	3828.00 Sq. Ft.
372	3828.00 Sq. Ft.
373	3248.00 Sq. Ft.
374	3828.00 Sq. Ft.

PHASE 3	
Number	Area
375	8482.87 Sq. Ft.
376	7764.08 Sq. Ft.
377	4698.76 Sq. Ft.
378	4036.75 Sq. Ft.
379	4037.24 Sq. Ft.
380	4036.26 Sq. Ft.
381	4035.36 Sq. Ft.
382	4038.14 Sq. Ft.
383	4035.36 Sq. Ft.
384	4038.14 Sq. Ft.
385	4035.36 Sq. Ft.
386	4038.14 Sq. Ft.
387	4035.36 Sq. Ft.
388	4038.14 Sq. Ft.
389	4035.36 Sq. Ft.
390	4038.14 Sq. Ft.
391	4035.55 Sq. Ft.
392	4038.04 Sq. Ft.
393	4174.73 Sq. Ft.
394	4270.02 Sq. Ft.
395	4063.11 Sq. Ft.
396	4043.89 Sq. Ft.
397	4063.11 Sq. Ft.
398	4043.89 Sq. Ft.
399	4063.11 Sq. Ft.
400	4043.89 Sq. Ft.
401	4063.11 Sq. Ft.
402	5253.89 Sq. Ft.
403	5240.22 Sq. Ft.
404	4102.31 Sq. Ft.
405	4040.22 Sq. Ft.
406	3999.78 Sq. Ft.
407	4040.22 Sq. Ft.
408	3999.78 Sq. Ft.
409	4040.22 Sq. Ft.
410	3999.78 Sq. Ft.
411	4113.73 Sq. Ft.
412	4201.85 Sq. Ft.
413	4060.06 Sq. Ft.
414	4047.57 Sq. Ft.
415	4009.51 Sq. Ft.
416	4030.64 Sq. Ft.
417	4009.57 Sq. Ft.
418	4030.70 Sq. Ft.
419	4009.63 Sq. Ft.
420	4030.76 Sq. Ft.
421	4009.69 Sq. Ft.
422	4030.82 Sq. Ft.
423	4009.75 Sq. Ft.
424	4030.87 Sq. Ft.
425	4009.81 Sq. Ft.
426	4030.93 Sq. Ft.
427	4009.65 Sq. Ft.
428	4242.18 Sq. Ft.
429	4008.29 Sq. Ft.
430	4107.82 Sq. Ft.
431	4140.68 Sq. Ft.
432	4131.08 Sq. Ft.
433	4131.34 Sq. Ft.
434	4140.88 Sq. Ft.
435	4101.44 Sq. Ft.
436	4025.65 Sq. Ft.
437	3987.13 Sq. Ft.
438	3895.78 Sq. Ft.
439	6774.81 Sq. Ft.
440	6241.33 Sq. Ft.
441	6841.46 Sq. Ft.
442	6637.85 Sq. Ft.
443	7642.16 Sq. Ft.

PHASE 3	
Number	Area
444	6714.91 Sq. Ft.
445	9128.74 Sq. Ft.
446	8279.73 Sq. Ft.
447	8671.64 Sq. Ft.
448	7857.90 Sq. Ft.
449	7534.60 Sq. Ft.
450	8409.23 Sq. Ft.
451	5912.01 Sq. Ft.
452	5912.01 Sq. Ft.
453	5912.01 Sq. Ft.
454	5845.05 Sq. Ft.
455	5845.05 Sq. Ft.
456	5845.05 Sq. Ft.
457	6382.36 Sq. Ft.
458	8064.31 Sq. Ft.
459	9121.40 Sq. Ft.
460	8877.67 Sq. Ft.
461	9990.72 Sq. Ft.
462	11903.46 Sq. Ft.
463	6854.98 Sq. Ft.
464	7674.38 Sq. Ft.
465	6164.73 Sq. Ft.
466	6164.73 Sq. Ft.
467	6164.73 Sq. Ft.
468	6164.73 Sq. Ft.
469	6164.73 Sq. Ft.
470	6164.73 Sq. Ft.
471	6164.73 Sq. Ft.
472	6164.36 Sq. Ft.
473	6006.35 Sq. Ft.
474	7090.34 Sq. Ft.
475	6450.96 Sq. Ft.
476	5783.93 Sq. Ft.
477	6747.15 Sq. Ft.
478	7533.24 Sq. Ft.
479	6588.00 Sq. Ft.
480	6588.00 Sq. Ft.
481	7533.87 Sq. Ft.
482	8283.42 Sq. Ft.
483	8097.53 Sq. Ft.
484	8664.92 Sq. Ft.
485	8530.48 Sq. Ft.
486	7373.16 Sq. Ft.
487	7480.40 Sq. Ft.
488	10398.82 Sq. Ft.
489	8700.17 Sq. Ft.
490	12269.34 Sq. Ft.
491	11248.43 Sq. Ft.
492	10210.10 Sq. Ft.
493	8491.70 Sq. Ft.
494	8231.78 Sq. Ft.
495	7388.55 Sq. Ft.
496	6587.83 Sq. Ft.
497	6588.00 Sq. Ft.
498	6588.00 Sq. Ft.
499	6588.00 Sq. Ft.
500	6588.00 Sq. Ft.
501	6588.00 Sq. Ft.
502	6588.00 Sq. Ft.
503	7479.49 Sq. Ft.

TOTAL LOTS PER PHASE
PHASE 1 = 188
PHASE2 = 186
PHASE 3 = 129

PROJECT NUMBER = PSP-24-07

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-3861 CERTIFICATE OF AUTHORIZATION

PRELIMINARY
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION
NORTH CAROLINA 36528 ENGINEER JAKOB P. KLEE

FOR INFORMATION, ONLY

NO.	DATE	REVISION:

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.

MERRITT RESERVE
LOT AREA PER PHASE
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
LOT AREA PER PHASE

SHEET NO.: G-003

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

Z:\Jobs\23-0004 Merritt Property (BRD)\Dwg_Working Dwgs\Sheets\Construction Set\3. G-003 Lot Area Per Phase.dwg
2025-05-01

5. Please confirm sequencing - does this include only the pond grading or will storm sewer pipe and structures be installed and connected to later?

7. Please remove any notes that are not applicable to the project.

CONSTRUCTION SEQUENCE FOR MERRITT RESERVE, PHASE 1 STAGE 1 SHALL BE AS FOLLOWS:

1. THE OWNER SHALL SUBMIT A NCG01 PERMIT AND OBTAIN A CERTIFICATE OF COMPLIANCE.
2. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH WAKE COUNTY TO OBTAIN A LAND DISTURBING PERMIT.
3. 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.
4. CONSTRUCT SCMS 1A, 1B, AND 1C PER THE SCM DETAIL SHEETS CG401 THROUGH CG411 OMITTING THE FOREBAYS. SCM 4 SHALL BE CONSTRUCTED WITH A LARGER SURFACE AREA AS SHOWN ON THE PHASE 1 EROSION CONTROL PLANS. CONNECT SKIMMERS TO THE OUTLET STRUCTURES. CONSTRUCT TEMPORARY SEDIMENT BASINS (TSB) #1 AND #2 AS SHOWN ON THE STAGE 1 EROSION AND SEDIMENT CONTROL PLAN. ANY INLET(S) INSTALLED SHOULD HAVE INLET PROTECTION INSTALLED IMMEDIATELY AS SEEN THESE PLANS. THE SEDIMENT BASINS AND TEMPORARY SKIMMER 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.
5. INSTALL ANY APPLICABLE RIP RAP DISSIPATERS SEEN WITHIN STAGE 1 EROSION AND SEDIMENT CONTROL PLAN. SEE SHEET G-005 FOR SCHEDULE.
6. INSTALL TEMPORARY DIVERSION DITCHES SHOWN IN THIS PHASE TO CONVEY SEDIMENT AND RUN OFF TO RESPECTIVE SEDIMENT BASINS. INSTALL RECOMMENDED LINER AND SEED/STABILIZE DENUDED GROUND IMMEDIATELY FOLLOWING DIVERSION DITCH INSTALLATION. SEE SHEET G-005 FOR THE TEMPORARY DIVERSION DITCH SCHEDULE WITH RECOMMENDED LINER.
7. CALL FOR INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER, PROCEED TO STAGE 2 EROSION AND SEDIMENT CONTROL ACTIVITIES ONLY ONCE APPROVAL IS GRANTED.

CONSTRUCTION SEQUENCE FOR MERRITT RESERVE, PHASE 1 STAGE 2 SHALL BE AS FOLLOWS:

1. GENERAL SITE GRADING MAY BEGIN.
2. CONTRACTOR TO FOLLOW THE "EROSION CONTROL CULVERT CROSSING PHASE 1" AS SHOWN ON SHEET CE 147 FOR THE CULVERT CROSSING INSTALLATION ON STRIPS DRIVE.
3. TSB #1 AND TSB #2 MAY BE REMOVED ONCE RUNOFF IS NO LONGER BEING DIRECTED INTO THOSE BASINS. TSB #3 AND SCM 2 MUST BE CONSTRUCTED PRIOR TO THE REMOVAL OF TSB #1 AND TSB #2 AS SHOWN ON THE PHASE 2 EROSION AND SEDIMENT CONTROL PLANS.
4. 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.
5. 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 APPROVED FOR REMOVAL BY THE WAKE COUNTY WATERSHED MANAGER.
6. INSTALL ANY APPLICABLE RIP RAP DISSIPATERS SEEN WITHIN THE CD SET FOR THE STAGE 2 EROSION AND SEDIMENT CONTROL PLAN. SEE SHEET G-005 FOR SCHEDULE.
7. CLEAN SEDIMENT BASINS WHEN ONE-HALF FULL.
8. SEED AND MULCH DENUDED AREA INCLUDING ANY CUT/FILL S[illegible]4) DAYS AFTER FINISHED GRADES ARE ESTABLISHED.
9. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND IS ESTABLISHED.
10. UTILITIES (WATER, ELECTRIC, GAS, CABLE TV, TELEPHONE, ETC.) WILL BE INSTALLED DURING THIS PHASE.
11. CALL FOR INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER, PROCEED TO STAGE 3 EROSION AND SEDIMENT CONTROL ACTIVITIES ONLY ONE APPROVAL IS GRANTED.
12. ADDITIONAL MEASURES OR DITCH EXTENSIONS MAY BE REQUIRED BY THE WAKE COUNTY WATERSHED MANAGER TO ROUTE RUNOFF TO SEDIMENT BASINS BASED ON FIELD CONDITIONS. THESE MEASURES SHALL BE INSTALLED UPON THE INSPECTOR'S DETERMINATION.

8. Confirm if sewer is included in this.

CONSTRUCTION SEQUENCE FOR MERRITT RESERVE, PHASE 1 STAGE 3 SHALL BE AS FOLLOWS:

1. WHEN ALL CONTRIBUTING AREAS ARE STABILIZED, OBTAIN APPROVAL FROM THE WAKE COUNTY WATERSHED MANAGER TO REMOVE THE TEMPORARY SKIMMER BASINS AND 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.
2. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL THE WAKE COUNTY WATERSHED MANAGER FOR AN INSPECTION.
3. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCES, ETC. AND SEED OUT OR STABILIZE A[illegible] RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DI[illegible] SHOULD BE INSTALLED.
4. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE WAKE COUNT[illegible] WATERSHED MANAGER. OBTAIN CERTIFICATE OF COMPLETION. FINALIZE NCG01 PERMIT

9. There is duplicated information in these two notes. Revise.

GENERAL NOTES:

A. ALL TREE PROTECTION FENCING SHALL BE MAINTAINED UNTIL ALL SITE WORK IS COMPLETED. THE FENCING SHALL BE REMOVED PRIOR TO THE FINAL SITE INSPECTION FOR THE CERTIFICATE OF OCCUPANCY (CO).

B. ALL TREE PROTECTION FENCING SHALL BE MAINTAINED UNTIL ALL SITE WORK IS COMPLETED. THE FENCING SHALL REMAIN UNTIL ISSUANCE OF CERTIFICATE OF OCCUPANCY (CO).

C. 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.

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 THE SITE DETAIL SHEETS. 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.

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.

REQUIRED WAKE COUNTY CONSTRUCTION SEQUENCE*

1. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE WAKE COUNTY 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. CONTACT THE WAKE COUNTY WATERSHED MANAGER FOR AN ONSITE INSPECTION 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, CONTACT THE WAKE COUNTY WATERSHED MANGER FOR AN INSPECTION.
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 WAKE COUNTY WATERSHED MANAGER. OBTAIN A CERTIFICATE OF COMPLETION.

CONSTRUCTION SEQUENCE FOR MERRITT RESERVE, PHASE 2 & 3 STAGE 1 SHALL BE AS FOLLOWS:

1. THE OWNER SHALL SUBMIT A NCG01 PERMIT AND OBTAIN A CERTIFICATE OF COMPLIANCE.
2. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH WAKE COUNTY TO OBTAIN A LAND DISTURBING PERMIT.
3. TREE PROTECTION FENCES, SILT FENCES AND CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS SHOWN ON THE EROSION CONTROL [illegible] 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.
4. CONSTRUCT SCMS 5A, 5B, 5C, 6A AND 6B PER THE SCM DETAIL SHEETS CG401 THROUGH CG411 OMITTING THE FOREBAYS. CONNECT SKIMMERS TO THE OUTLET STRUCTURES. CONSTRUCT TEMPORARY SEDIMENT BASINS (TSB) #4, #5, AND #6 AS SHOWN ON THE STAGE [illegible] EROSION AND SEDIMENT CONTROL PLAN. ANY INLET(S) INSTALLED SHOULD HAVE INLET PROTECTION INSTALLED IMMEDIATELY AS SEE[illegible] THESE PLANS. THE SEDIMENT BASINS AND TEMPORARY SKIMMER 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.
5. INSTALL ANY APPLICABLE RIP RAP DISSIPATERS SEEN WITHIN STAGE 1 EROSION AND SEDIMENT CONTROL PLAN. SEE SHEET G-005 FOR SCHEDULE.
6. INSTALL TEMPORARY DIVERSION DITCHES SHOWN IN THIS PHASE TO CONVEY SEDIMENT AND RUN OFF TO RESPECTIVE SEDIMENT BASINS. INSTALL RECOMMENDED LINER AND SEED/STABILIZE DENUDED GROUND IMMEDIATELY FOLLOWING DIVERSION DITCH INSTALLATION. SEE SHEET G-005 FOR THE TEMPORARY DIVERSION DITCH SCHEDULE WITH RECOMMENDED LINER.
7. CALL FOR INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER, PROCEED TO STAGE 2 EROSION AND SEDIMENT CONTROL ACTIVITIES ONLY ONCE APPROVAL IS GRANTED.

6. This appears to be truly focused on Phase 2 & 3, but the EC plans show additional grading and work in Phase 1. Please review the construction sequence and the plans to ensure phasing is clear for what is being constructed and when. There currently appears to be overlap with Phase 1 into Phase 2 & 3.

CONSTRUCTION SEQUENCE FOR MERRITT RESERVE, PHASE 2 & 3 STAGE 2 SHALL BE AS FOLLOWS:

1. GENERAL SITE GRADING MAY BEGIN.
2. CONTRACTOR TO FOLLOW THE "EROSION CONTROL CULVERT CROSSING PHASE 2 & 3" AS SHOWN ON SHEETS CE 240 AND CE 241 FOR THE CULVERT CROSSING INSTALLATIONS ON JOCUND STREET AND FOWLER ROAD, RESPECTIVELY.
3. 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.
4. 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 APPROVED FOR REMOVAL BY THE WAKE COUNTY WATERSHED MANAGER.
5. INSTALL ANY APPLICABLE RIP RAP DISSIPATERS SEEN WITHIN THE CD SET FOR THE STAGE 2 EROSION AND SEDIMENT CONTROL PLAN. SEE SHEET G-005 FOR SCHEDULE.
6. CLEAN SEDIMENT BASINS WHEN ONE-HALF FULL.
7. SEED AND MULCH DENUDED AREA INCLUDING ANY CUT/FILL SLOPES WITHIN FOURTEEN (14) DAYS AFTER FINISHED GRADES ARE ESTABLISHED.
8. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND IS ESTABLISHED.
9. UTILITIES (WATER, ELECTRIC, GAS, CABLE TV, TELEPHONE, ETC.) WILL BE INSTALLED DURING THIS PHASE.
10. CALL FOR INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER, PROCEED TO STAGE 3 EROSION AND SEDIMENT CONTROL ACTIVITIES ONLY ONE APPROVAL IS GRANTED.
11. ADDITIONAL MEASURES OR DITCH EXTENSIONS MAY BE REQUIRED BY THE WAKE COUNTY WATERSHED MANAGER TO ROUTE RUNOFF TO SEDIMENT BASINS BASED ON FIELD CONDITIONS. THESE MEASURES SHALL BE INSTALLED UPON THE INSPECTOR'S DETERMINATION.

CONSTRUCTION SEQUENCE FOR MERRITT RESERVE, PHASE 2 & 3 STAGE 3 SHALL BE AS FOLLOWS:

1. WHEN ALL CONTRIBUTING AREAS ARE STABILIZED, OBTAIN APPROVAL FROM THE WAKE COUNTY WATERSHED MANAGER TO REMOVE THE TEMPORARY SKIMMER BASINS AND 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.
2. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL THE WAKE COUNTY WATERSHED MANAGER FOR AN INSPECTION.
3. 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.
4. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER. OBTAIN CERTIFICATE OF COMPLETION. FINALIZE NCG01 PERMIT

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. CONTRACTOR WILL KEEP STREETS CLEAN AT ALL TIMES, OR A WASH STATION WILL BE REQUIRED.
5. ALL CATCH BASINS SHALL HAVE INLET PROTECTION.
6. ALL CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 14 DAYS OF ANY PHASE OF GRADING, WITH SOME SLOPES TO BE STABILIZED WITHIN 7 DAYS AS SHOWN ON THIS SHEET AND ON THE NPDES SHEETS.
7. A PRE-CONSTRUCTION CONFERENCE MAY BE REQUIRED BEFORE GRADING PERMIT IS ISSUED.
8. TREE PROTECTION FENCING ON THIS PROJECT WILL BE INSTALLED AND INSPECTED BEFORE THE GRADING PERMIT IS ISSUED.
9. 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. PROJECT AREA = 152.28 ACRES.
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.

MAINTENANCE OF EROSION CONTROL MEASURES

SILT FENCE MAINTENANCE - ANY DAMAGE IS TO BE REPAIRED AS SOON AS POSSIBLE AFTER IT IS DISCOVERED. FENCE POSTS ARE TO BE STRAIGHTENED OR REPLACED AS NECESSARY. WIRE FENCING SUPPORTING THE FILTER FABRIC SHALL BE REPLACED AS NECESSARY. ANY TORN FILTER FABRIC SHALL BE PATCHED OR REPLACED. WHEN STONE IS CONTAMINATED IT SHALL BE REMOVED AND REPLACED WITH CLEAN STONE.

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 - ANY SEGMENTS THAT ARE DAMAGED ARE TO BE REPLACED AS SOON AS POSSIBLE FOLLOWING DISCOVERY.

CONSTRUCTION ENTRANCE - IF ANY OF THE STONE SHALL BE LOST, IT SHALL BE REPLACED. IF THE FILTER FABRIC UNDER THE STONE IS DAMAGED, THAT PORTION SHALL BE REPLACED. IF THE STONE BECOMES COMPLETELY CLOGGED WITH SOIL, IT SHALL BE REMOVED AND REPLACED.

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 - THESE BASINS SHALL BE INSPECTED AT LEAST ONCE PER WEEK AND AFTER EVERY STORM OF 1" OR MORE OF RAIN. DEBRIS SHALL BE REMOVED IMMEDIATELY. ANY DAMAGE TO THE TRAP SHALL BE REPAIRED TO THE STANDARD FOR INITIAL CONSTRUCTION. SEDIMENT IS TO BE REMOVED WHEN IT REACHES 6" DEEP OR AT LEAST ONCE EVERY SIX MONTHS.

SEDIMENT BASINS - ALL REQUIREMENTS FOR SEDIMENT TRAPS SHALL APPLY.

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

BAFFLES - SHALL BE INSPECTED AFTER EACH SIGNIFICANT RAINFALL AND AT LEAST ONCE A WEEK. IF NECESSARY, THEY SHALL BE REPAIRED TO THE ORIGINAL PERFORMANCE LEVEL USING MATERIALS SPECIFIED IN THE DETAIL.

DITCH LINER - SHALL BE INSPECTED AT LEAST ONCE A WEEK AND FOLLOWING SIGNIFICANT RAINFALL. IF NECESSARY, THE LINER SHALL BE REPLACED WITH THE ORIGINAL TYPE MATERIAL AND ANCHORED ACCORDING TO THE METHODS SHOWN ON SHEET CD3.

SKIMMERS - SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY SIGNIFICANT RAINFALL. THEY SHALL BE CLEANED OF DEBRIS AND ANY REPAIRS MADE TO THE ORIGINAL QUALITY OR THE ITEM REPLACED.

RIP-RAP CHANNEL - SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY SIGNIFICANT RAINFALL. IF STONE IS MISSING IT SHALL BE REPLACED TO THE ORIGINAL SPECIFICATIONS. DEBRIS AND SEDIMENT SHALL BE REMOVED AS NECESSARY.

RIP-RAP APRONS - SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY SIGNIFICANT RAINFALL. IF STONE IS MISSING, IT SHALL BE REPLACED TO THE ORIGINAL SPECIFICATIONS. DEBRIS AND SEDIMENT SHALL BE REMOVED AS NECESSARY.

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

WATTLES - SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY SIGNIFICANT RAINFALL. ACCUMULATED SEDIMENT SHALL BE REMOVED. IF THE WATTLE ANCHORS ARE DISPLACED OR DAMAGED THEY SHALL BE REINSTALLED OR REPLACED. IF THE WATTLE IS DAMAGED SUCH THAT IT NO LONGERS FUNCTIONS, IT SHALL BE REPLACED.

INLET PROTECTION - SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY SIGNIFICANT RAINFALL. SEDIMENT SHALL BE REMOVED. IF STONE IS SIGNIFICANTLY CLOGGED, IT SHALL BE REMOVED AND REPLACED WITH CLEAN STONE. ANY DAMAGE TO SILT FENCE TYPE PROTECTION SHALL BE REPAIRED BY PATCHING OR REPLACEMENT.

SEEDBED PREPARATION

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

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

SEEDING SCHEDULE

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

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

Consult Erosion Control Officer or NRCS for additional alternatives for vegetating denuded areas. The above vegetation rates are those which do well under local conditions; other seeding rate combinations are possible.

***Temporary - Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow over 12 inches in height before mowing to keep fescue from being shaded out.

*Bahia grass shall not be used in City maintained areas.

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

Date	Type*	Planting Rate
Mar 1 - June 1	Sericea Lespedeza (scarified) and	50 lb./acre
Mar 1 - Apr 15	Add Tall Fescue or	120 lb./acre
Mar 1 - June 30	Add Weeping Love Grass or	10 lb./acre
Mar 1 - June 30	Add Hulled Common Bermuda grass	25 lb./acre
June 1 - Sept 1	***Tall Fescue and ***Browntop Millet ***or Sorghum-Sudan Hybrids	120 lb./acre 35 lb./acre 30 lb./acre
Sept 1 - Mar 1	Sericea Lespedeza (unhulled/unscarified) and Tall Fescue Add Abruzzi Rye or Annual Rye	70 lb./acre 120 lb./acre 25 lb./acre

Consult Erosion Control Officer or NRCS for additional alternatives for vegetating denuded areas. The above vegetation rates are those which do well under local conditions; other seeding rate combinations are possible.

***Temporary - Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow over 12 inches in height before mowing to keep fescue from being shaded out.

*Bahia grass shall not be used in City maintained areas.

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. APPROVEDSCMs 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 SCM.
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).

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".

NPDES Stormwater Discharge Permit for Construction Activities (NCGO1) — NCDENR/Division of Energy, Mineral and Land Resources

STABILIZATION TIMEFRAMES
(Effective Aug. 3, 2011)

Site Area Description	Stabilization	Timeframe Exceptions
Perimeter dikes, swales, ditches, slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zones.

SCM CONVERSION SEQUENCE

1. WHEN ALL CONTRIBUTARY AREAS TO THE STORMWATER CONTROL MEASURE (SCM) HAVE BEEN STABILIZED CONTACT WAKE COUNTY FOR PERMISSION TO CONVERT THE SEDIMENT BASIN TO A SCM.
2. REMOVE ALL SEDIMENT FROM THE BASIN AND RESTORE GRADES TO DESIGNED CONFIGURATION, IF NEEDED.
3. CONSTRUCT FOREBAY DIVIDERS AS SHOWN.
4. MAKE ANY REPAIRS, ETC. NECESSARY TO THE OUTLET STRUCTURE, OUTLET PIPE, EMERGENCY OVERFLOW, ETC. EXAMINE RIP-RAP TO SEE IF REFRESHING OR CLEANING OF ROCK IS NECESSARY.
5. REMOVE SKIMMER AND CLOSE OUTLET VALVE.
6. CONTACT EROSION CONTROL OFFICER FOR APPROVAL.
7. CONTACT A LICENSED SURVEYOR FOR SURVEY OF AS-BUILT CONDITIONS. NOTIFY ENGINEER-OF-RECORD FOR PREPARATION OF AS-BUILT DRAWINGS.

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

PRELIMINARY

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:

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.

MERRITT RESERVE
GENERAL NOTES
ROLESVILLE RD
WAKE COUNTY NC 27312

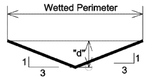
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE: GENERAL NOTES

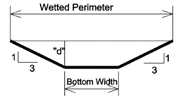
SHEET NO.: G-004

Merritt Reserve - Phase 1

Rev. 110421
Corrected Wetted Perimeter Equation



Ditch Section (For Bottom Width = 0)
(Not To Scale)



Trapezoidal Ditch / Swale Section
(Not To Scale)

TEMPORARY - TRIANGULAR SWALE DRAINAGE CHART - MERRIT RESERVE PHASE 1

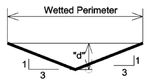
Ditch I.D.	D.A., Ac.	C	i_{10}, in/hr	Q_{10}, cfs	Left Side Slope, Z Z:1	Right Side Slope, Z Z:1	Avg. Ditch Slope, %	Bottom Width	Ditch Lining*	Manning, n	Q_{10} Flow Depth, ft	Flow Velocity V10, fps	Calc.Shear Stress, psf
TDD 1.1	4.84	0.60	7.20	**20.91**	2.00	2.00	3.50	0.00	**Geocoir/Dekowe; 400**	0.033	**1.33**	**5.93**	2.90
TDD 1.2	3.01	0.60	7.20	**13.00**	2.00	2.00	0.92	0.00	**Geocoir/Dekowe; Coconut, RSC-4**	0.033	**1.43**	**3.19**	0.82
TDD 1.3	0.44	0.60	7.20	**1.90**	2.00	2.00	0.50	0.00	**Geocoir/Dekowe; Coconut, RSC-4**	0.033	**0.78**	**1.56**	0.24
TDD 1.4	6.25	0.60	7.20	**27.00**	2.00	2.00	0.25	0.00	**Geocoir/Dekowe; Coconut, RSC-4**	0.033	**2.39**	**2.36**	0.37
TDD 2.1	11.49	0.60	7.20	**49.64**	2.00	2.00	1.00	0.00	**Geocoir/Dekowe; Coconut, RSC-4**	0.033	**2.32**	**4.62**	1.45
TDD 4.1	2.64	0.60	7.20	**11.40**	2.00	2.00	1.84	0.00	**Geocoir/Dekowe; Coconut, RSC-4**	0.033	**1.19**	**4.00**	1.37
TDD 4.2	1.15	0.60	7.20	**4.97**	2.00	2.00	2.46	0.00	**Geocoir/Dekowe; Coconut, RSC-4**	0.033	**0.83**	**3.62**	1.27
TDD 4.3	1.21	0.60	7.20	**5.23**	2.00	2.00	2.47	0.00	**Geocoir/Dekowe; Coconut, RSC-4**	0.033	**0.84**	**3.67**	1.30

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

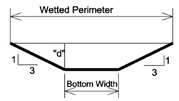
Z:\Jobs\23-0004 Merrit Property BRD\Calculations\Erosion Control\Temporary Ditch Calculations.xlsx

Merritt Reserve - Phase 2 and 3

Rev. 110421
Corrected Wetted Perimeter Equation



Ditch Section (For Bottom Width = 0)
(Not To Scale)



Trapezoidal Ditch / Swale Section
(Not To Scale)

TEMPORARY - TRIANGULAR SWALE DRAINAGE CHART - MERRIT RESERVE PHASE 2 & 3

Ditch I.D.	D.A., Ac.	C	i_{10}, in/hr	Q_{10}, cfs	Left Side Slope, Z Z:1	Right Side Slope, Z Z:1	Avg. Ditch Slope, %	Bottom Width	Ditch Lining*	Manning, n	Q_{10} Flow Depth, ft	Flow Velocity V10, fps	Calc.Shear Stress, psf
TDD 1A	3.22	0.60	7.20	**13.91**	2.00	2.00	1.50	0.00	**N. Am. Green; Coconut; double net**	0.033	**1.34**	**3.90**	1.25
TDD 2	2.64	0.60	7.20	**11.40**	2.00	2.00	4.91	0.00	**Geocoir/Dekowe; 400**	0.033	**0.99**	**5.78**	3.04
TDD 5A	2.65	0.60	7.20	**11.45**	2.00	2.00	6.47	0.00	**Geocoir/Dekowe; 700**	0.033	**0.95**	**6.41**	3.82
TDD 5B	0.59	0.60	7.20	**2.55**	2.00	2.00	4.81	0.00	**N. Am. Green; Coconut; double net**	0.033	**0.57**	**3.93**	1.71
TDD 5C2	2.78	0.60	7.20	**12.01**	2.00	2.00	16.03	0.00	**N. Am. Green; C350; Vegetated**	0.033	**0.81**	**9.11**	8.12
TDD 5C3	0.39	0.60	7.20	**1.68**	2.00	2.00	0.90	0.00	**N. Am. Green; Coconut; double net**	0.033	**0.67**	**1.89**	0.37
TDD 6A.1	1.67	0.60	7.20	**7.21**	2.00	2.00	8.72	0.00	**Geocoir/Dekowe; 700**	0.033	**0.75**	**6.38**	4.09
TDD 6A.2	1.80	0.60	7.20	**7.78**	2.00	2.00	2.91	0.00	**N. Am. Green; Coconut; double net**	0.033	**0.95**	**4.31**	1.72
TDD 6B.1	1.07	0.60	7.20	**4.62**	2.00	2.00	7.44	0.00	**Geocoir/Dekowe; 400**	0.033	**0.66**	**5.37**	3.05
TDD 6B.2	2.68	0.60	7.20	**11.58**	2.00	2.00	3.00	0.00	**N. Am. Green; Coconut; double net**	0.033	**1.10**	**4.82**	2.05
TDD 7	0.36	0.60	7.20	**1.56**	2.00	2.00	7.61	0.00	**N. Am. Green; Coconut; double net**	0.033	**0.44**	**4.11**	2.07

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

Z:\Jobs\23-0004 Merrit Property BRD\Calculations\Erosion Control

Rip Rap Dissipater Calculations 10-Year Storm

Outlet ID	Pipe Diameter (in)	Stone Class	Stone Depth (in)	Stone Material (tons)	Geo-Textile (SY)	Start Width (ft)	End Width (ft)	Length (ft)
FES 100	30	B	18	5	16	5	15	10
FES 120	30	B	18	5	16	5	15	10
FES 139	18	B	12	2	7	3	9	6
FES OS 1A	30	B	18	5	16	5	15	10
FES 140	36	B	18	7	22	6	18	12
FES OS 1B	18	B	12	2	7	3	9	6
FES 160	15	B	12	1	5	2.5	7.5	5
FES 0S 1C	18	B	12	2	7	3	9	6
FES 200	30	B	18	5	16	5	15	10
FES 250	18	B	12	2	7	3	9	6
FES OS 2	24	B	15	3	11	4	12	8
FES 400	36	B	18	7	22	6	18	12
FES OS 4	36	B	18	7	22	6	18	12
FES 500	48	I	24					
FES OS 5A	24	B	15					
FES 550	18	B	12					
FES OS 5B	18	B	12					
FES 560	30	B	18					
FES OS 5C	18	B	12					
FES 600	15	B	12					
FES OS 6A	18	B	12					
FES 610	24	B	15					
FES 630	18	B	12	2	7	3	9	6
FES OS 6B	18	B	12	2	7	3	9	6
FES 700	24	B	15	3	11	4	12	8
FES 0S 7	18	B	12	2	7	3	9	6
GRNWY 100	15	B	12	1	5	2.5	7.5	5
GRNWY 110	15	B	12	1	5	2.5	7.5	5
GRNWY 120	15	B	12	1	5	2.5	7.5	5
EW 11	60 (DBL)	I	30	26	56	18	18	36
EW 21	42	B	24	10	28	7	21	14
EW 31	60	I	30	26	56	18	18	36

10. Please review all sheet titles to make sure they are clearly describing what the sheet is, providing consistency across sheets, and that all titles fit in the spaces provided. For example, this sheet may be better named CALCULATIONS or SWALE SCHEDULE and the next sheet named SANITARY SCHEDULE and the following named STORM SCHEDULE so the plans are easy to navigate. Another example is on Sheet CE-102 where the title is overlapping with the title block. There is another set of sheets that says "SITE PLAN" on some and "SITE PLAN (50 SCALE)" on others.

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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

PRELIMINARY
PRELIMINARY
DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA 36528 JACOB P. KLEIN ENGINEER

FOR INFORMATION, ONLY

NO.	DATE	REVISION:

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MERRITT RESERVE
SCHEDULE
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

SCHEDULE

SHEET NO.:

G-005

Z:\Jobs\23-0004 Merrit Property BRD\Revit_ Working Dwgs\Sheets\Construction Set\4. G-004 General Notes and Schedule.dwg

2025-05-01

SSWR - North - Structure Table	
Structure Name	Details
MH 500	RIM = 361.87 INV IN = 348.000
MH 501	RIM = 367.23 INV IN = 356.000 INV IN = 355.200 INV IN = 356.000 INV OUT = 355.000
MH 502	RIM = 370.70 INV IN = 358.000 INV OUT = 357.800
MH 503	RIM = 375.43 INV IN = 363.200 INV OUT = 363.000
MH 504	RIM = 388.54 INV IN = 375.000 INV IN = 375.000 INV IN = 375.000 INV OUT = 374.289
MH 505	RIM = 391.69 INV IN = 385.206 INV IN = 385.688 INV OUT = 385.000
MH 506	RIM = 393.04 INV OUT = 387.037
MH 507	RIM = 387.28 INV OUT = 381.000
MH 508	RIM = 389.96 INV OUT = 381.576
MH 509	RIM = 391.32 INV OUT = 379.000
MH 520	RIM = 369.69 INV IN = 363.692 INV OUT = 363.462
MH 521	RIM = 370.93 INV IN = 364.929 INV OUT = 364.729
MH 522	RIM = 386.32 INV IN = 367.927 INV OUT = 367.700
MH 523	RIM = 384.78 INV IN = 369.569 INV OUT = 369.300
MH 524	RIM = 384.20 INV IN = 371.200 INV OUT = 371.000
MH 525	RIM = 385.82 INV OUT = 379.820
MH 530	RIM = 367.61 INV OUT = 363.000
MH 540	RIM = 357.55 INV IN = 351.400
MH 541	RIM = 363.94 INV IN = 348.198 INV IN = 345.851 INV IN = 356.416 INV OUT = 345.600
MH 542	RIM = 366.55 INV IN = 360.300 INV OUT = 359.000
MH 543	RIM = 379.04 INV IN = 373.000 INV OUT = 372.800
MH 544	RIM = 380.14 INV OUT = 374.145
MH 550	RIM = 361.92 INV IN = 351.104 INV OUT = 349.000
MH 551	RIM = 362.58 INV IN = 353.573 INV OUT = 351.500
MH 552	RIM = 363.45 INV IN = 355.570 INV OUT = 354.000
MH 553	RIM = 364.35 INV IN = 358.300 INV OUT = 356.000
MH 554	RIM = 366.90 INV OUT = 360.900
MH 560	RIM = 363.60 INV IN = 347.454 INV IN = 348.000 INV OUT = 347.167
MH 561	RIM = 361.01 INV IN = 348.339 INV IN = 348.300 INV OUT = 348.100
MH 562	RIM = 359.56 INV IN = 349.446 INV OUT = 348.700
MH 563	RIM = 360.32 INV OUT = 350.500
MH 564	RIM = 362.08 INV IN = 354.363 INV OUT = 354.163
MH 565	RIM = 362.93 INV IN = 357.631 INV OUT = 357.431
MH 567	RIM = 363.78 INV IN = 358.126 INV OUT = 357.926

SSWR - North - Structure Table	
Structure Name	Details
MH 568	RIM = 364.13 INV OUT = 358.409
MH 570	RIM = 375.87 INV IN = 367.000 INV IN = 365.000 INV OUT = 366.000
MH 571	RIM = 381.86 INV OUT = 373.000
MH 572	RIM = 377.17 INV IN = 369.000 INV OUT = 367.100
MH 573	RIM = 379.59 INV OUT = 373.000

SSWR - South - Structure Table	
Structure Name	Details
EX. MH 39	RIM = 274.53 INV IN = 262.500
MH 100	RIM = 273.34 INV IN = 263.845 INV IN = 263.845 INV OUT = 263.645
MH 101	RIM = 275.54 INV IN = 264.791 INV OUT = 264.591
MH 102	RIM = 273.63 INV IN = 265.788 INV OUT = 265.588
MH 103	RIM = 274.33 INV IN = 267.003 INV OUT = 266.803
MH 104	RIM = 279.76 INV IN = 268.200 INV IN = 268.200 INV OUT = 268.007
MH 105	RIM = 284.58 INV IN = 269.306 INV OUT = 269.106
MH 106	RIM = 288.33 INV IN = 271.291 INV OUT = 271.000
MH 107	RIM = 282.55 INV IN = 275.000 INV OUT = 273.120 INV OUT = 273.517
MH 113	RIM = 286.76 INV IN = 276.056 INV IN = 276.357
MH 115	RIM = 289.45 INV IN = 282.025 INV OUT = 281.800
MH 116	RIM = 291.68 INV IN = 285.500 INV OUT = 285.300
MH 118	RIM = 304.55 INV IN = 292.500 INV OUT = 292.300
MH 119	RIM = 308.00 INV IN = 296.500 INV OUT = 294.000
MH 120	RIM = 337.47 INV IN = 312.100 INV IN = 312.100 INV OUT = 309.603
MH 121	RIM = 331.84 INV IN = 314.900 INV OUT = 312.472
MH 122	RIM = 334.84 INV IN = 324.700 INV IN = 324.700 INV OUT = 324.500
MH 123	RIM = 335.99 INV IN = 325.800 INV OUT = 325.600
MH 124	RIM = 348.99 INV IN = 337.000 INV OUT = 335.000
MH 125	RIM = 372.17 INV IN = 354.000 INV OUT = 353.800
MH 126	RIM = 372.90 INV IN = 358.218 INV OUT = 358.000
MH 127	RIM = 371.32 INV IN = 359.343 INV IN = 359.100 INV OUT = 359.100
MH 128	RIM = 370.60 INV IN = 361.000 INV OUT = 360.800
MH 129	RIM = 371.87 INV IN = 363.000 INV OUT = 362.800
MH 130	RIM = 384.45 INV IN = 372.656 INV OUT = 372.400
MH 131	RIM = 390.18 INV OUT = 380.000
MH 140	RIM = 302.95 INV IN = 278.894 INV OUT = 278.600
MH 141	RIM = 302.44 INV IN = 296.400 INV OUT = 296.200
MH 142	RIM = 327.72 INV IN = 309.421 INV OUT = 309.200
MH 143	RIM = 329.05 INV IN = 315.412 INV OUT = 315.200
MH 144	RIM = 334.11 INV IN = 323.100 INV OUT = 322.900
MH 145	RIM = 341.04 INV IN = 331.729 INV OUT = 331.500

SSWR - South - Structure Table	
Structure Name	Details
MH 146	RIM = 349.12 INV OUT = 342.000
MH 150	RIM = 345.46 INV IN = 339.460
MH 151	RIM = 345.62 INV IN = 335.000 INV OUT = 334.800
MH 152	RIM = 352.20 INV IN = 341.200 INV OUT = 341.000
MH 153	RIM = 354.92 INV OUT = 345.000
MH 160	RIM = 282.27 INV IN = 271.800 INV OUT = 271.668
MH 161	RIM = 296.00 INV IN = 281.400 INV OUT = 281.246
MH 162	RIM = 310.71 INV IN = 293.030 INV OUT = 292.800
MH 163	RIM = 310.79 INV IN = 298.023 INV OUT = 297.800
MH 164	RIM = 315.75 INV IN = 304.979 INV OUT = 304.700
MH 165	RIM = 332.08 INV OUT = 324.000
MH 170	RIM = 308.72 INV IN = 289.100 INV OUT = 286.661
MH 170A	RIM = 307.15 INV IN = 282.950 INV OUT = 282.732
MH 171	RIM = 324.58 INV IN = 302.000 INV IN = 302.000 INV OUT = 299.922
MH 172	RIM = 327.17 INV IN = 316.874 INV IN = 316.800 INV OUT = 316.600
MH 173	RIM = 332.74 INV OUT = 326.700
MH 174	RIM = 329.74 INV OUT = 305.000
MH 175	RIM = 328.25 INV OUT = 319.000
MH 180	RIM = 341.36 INV IN = 318.900 INV OUT = 316.446
MH 181	RIM = 357.89 INV IN = 339.800 INV OUT = 337.331
MH 182	RIM = 367.40 INV IN = 357.100 INV IN = 357.100 INV OUT = 354.606
MH 183	RIM = 367.83 INV OUT = 361.619
MH 184	RIM = 368.09 INV OUT = 361.463
MH 190	RIM = 337.01 INV IN = 326.297 INV OUT = 325.945
MH 191	RIM = 340.87 INV IN = 330.573 INV OUT = 330.363
MH 192	RIM = 345.14 INV IN = 336.406 INV OUT = 335.717
MH 193	RIM = 349.34 INV IN = 338.700 INV IN = 338.700 INV OUT = 338.454
MH 194	RIM = 366.04 INV IN = 355.666 INV IN = 355.838 INV OUT = 355.676
MH 195	RIM = 381.34 INV IN = 371.000 INV OUT = 370.800
MH 196	RIM = 385.09 INV IN = 374.186 INV IN = 374.687 INV OUT = 373.900
MH 197	RIM = 385.65 INV OUT = 377.000
MH 200	RIM = 353.44 INV IN = 343.000 INV OUT = 342.800

SSWR - South - Structure Table	
Structure Name	Details
MH 201	RIM = 359.86 INV IN = 346.750 INV OUT = 346.547
MH 202	RIM = 361.05 INV IN = 350.752 INV OUT = 350.584
MH 203	RIM = 365.34 INV OUT = 353.085
MH 210	RIM = 368.24 INV IN = 358.387 INV OUT = 358.100
MH 211	RIM = 371.87 INV IN = 362.183 INV OUT = 361.900
MH 212	RIM = 379.41 INV OUT = 369.334
MH 220	RIM = 386.36 INV IN = 375.200 INV OUT = 375.000
MH 221	RIM = 388.20 INV IN = 378.544 INV OUT = 378.000
MH 222	RIM = 390.67 INV IN = 380.600 INV OUT = 380.400
MH 223	RIM = 389.24 INV OUT = 383.000
MH 230	RIM = 374.27 INV IN = 364.088 INV OUT = 363.800
MH 231	RIM = 379.42 INV IN = 368.200 INV IN = 368.280 INV OUT = 368.000
MH 232	RIM = 381.53 INV IN = 373.176 INV IN = 371.000 INV OUT = 370.800
MH 233	RIM = 385.71 INV OUT = 375.000
MH 234	RIM = 383.27 INV IN = 372.269 INV OUT = 372.000
MH 235	RIM = 386.41 INV OUT = 376.000
MH 236	RIM = 386.74 INV IN = 378.202 INV OUT = 377.578
MH 237	RIM = 391.10 INV OUT = 379.202

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

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AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
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CERTIFICATE OF AUTHORIZATION

PRELIMINARY
NORTH CAROLINA
REGISTERED
JAKOB P. KLEIN
36528
ENGINEER
DO NOT USE FOR CONSTRUCTION
FOR INFORMATION, ONLY

NO.	DATE	REVISION:

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.

MERRITT RESERVE

SCHEDULE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

SCHEDULE

SHEET NO.:

G-006

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

Z:\Jobs\23-0004 Merritt Property 889\Revit_ Working Dwgs\Sheets\Construction Set\4_G-004 General Notes and Schedule.dwg

2025-05-01

Culverts - Structure Table	
Structure Name	Details
EW 11	RIM = 356.17 INV IN = 349.500
EW 21	RIM = 374.84 INV IN = 369.800
EW 31	RIM = 290.58 INV IN = 285.000
HW 10	RIM = 357.42 INV OUT = 350.750
HW 20	RIM = 375.94 INV OUT = 370.900
HW 30	RIM = 294.68 INV OUT = 289.100

Greenway Culverts - Structure Table	
Structure Name	Details
Structure - (660)	RIM = 272.72 INV OUT = 271.200
Structure - (661)	RIM = 272.02 INV IN = 270.500
Structure - (662)	RIM = 276.23 INV OUT = 280.000
Structure - (663)	RIM = 280.52 INV IN = 279.000
Structure - (664)	RIM = 298.01 INV OUT = 298.250
Structure - (665)	RIM = 298.52 INV IN = 297.500

STRM - SCM 1A - Structure Table	
Structure Name	Details
CB 101	RIM = 361.92 INV IN = 354.200 INV IN = 354.200 INV OUT = 353.690
CB 102	RIM = 363.01 INV IN = 358.830 INV IN = 355.570 INV OUT = 354.750
CB 103	RIM = 363.10 INV IN = 355.990 INV OUT = 355.790
CB 104	RIM = 363.11 INV IN = 356.330 INV OUT = 356.130
CB 105	RIM = 361.19 INV IN = 357.090 INV OUT = 356.890
CB 105A	RIM = 361.06 INV OUT = 357.240
CB 106	RIM = 363.01 INV IN = 359.390 INV OUT = 359.190
CB 107	RIM = 364.28 INV IN = 359.810 INV OUT = 359.610
CB 108	RIM = 364.29 INV IN = 360.150 INV OUT = 359.950
CB 109	RIM = 372.43 INV IN = 368.570 INV IN = 368.570 INV OUT = 368.300
CB 109A	RIM = 373.68 INV OUT = 369.850
CB 111	RIM = 379.82 INV IN = 376.000 INV IN = 375.800 INV OUT = 375.600
CB 111A	RIM = 379.82 INV OUT = 376.000
CB 112	RIM = 381.73 INV IN = 377.760 INV OUT = 377.560
CB 112A	RIM = 381.73 INV OUT = 377.900
CB 113	RIM = 361.89 INV IN = 355.220 INV IN = 355.770 INV OUT = 355.020
CB 114	RIM = 362.45 INV IN = 358.630 INV OUT = 358.430
CB 115	RIM = 363.80 INV IN = 359.980 INV IN = 359.980 INV OUT = 359.780
CB 115A	RIM = 364.07 INV OUT = 360.250
CB 116	RIM = 366.16 INV OUT = 362.340
CB 125	RIM = 362.48 INV IN = 353.500 INV IN = 354.332 INV OUT = 353.300
CB 125A	RIM = 362.37 INV IN = 354.737 INV OUT = 354.500
CB 126	RIM = 365.49 INV IN = 360.580 INV OUT = 360.380
CB 127	RIM = 367.52 INV IN = 361.000 INV OUT = 360.800
CB 128	RIM = 367.71 INV IN = 361.370 INV OUT = 361.180
CB 129	RIM = 367.91 INV IN = 362.560 INV IN = 361.800 INV OUT = 361.600
CB 130	RIM = 367.72 INV IN = 362.900 INV OUT = 362.700
CB 131	RIM = 367.67 INV IN = 363.400 INV IN = 363.560 INV OUT = 363.120
CB 131A	RIM = 367.41 INV OUT = 363.690
CB 132	RIM = 369.17 INV IN = 364.200 INV OUT = 363.930
CB 134	RIM = 371.28 INV IN = 367.340 INV IN = 367.340 INV OUT = 367.140
CB 134A	RIM = 371.32 INV OUT = 367.590
CB 135	RIM = 378.32 INV OUT = 374.360

STRM - SCM 1A - Structure Table	
Structure Name	Details
CB 136	RIM = 372.91 INV IN = 362.560 INV OUT = 362.360
CB 136A	RIM = 372.65 INV IN = 363.510 INV OUT = 362.700
CB 137	RIM = 361.74 INV IN = 355.344 INV OUT = 355.100
CB 138	RIM = 361.74 INV OUT = 355.500
FES 100	RIM = 349.88 INV IN = 347.000
FES 120	RIM = 349.88 INV IN = 347.000
JB 110	RIM = 379.28 INV IN = 374.860 INV OUT = 374.660
JB 113A	RIM = 363.66 INV IN = 356.180 INV OUT = 355.640
JB 133	RIM = 370.28 INV IN = 366.480 INV IN = 364.710 INV OUT = 364.510
YI 113B	RIM = 359.60 INV IN = 356.750 INV OUT = 356.550
YI 113C	RIM = 361.55 INV IN = 358.160 INV OUT = 357.890
YI 113D	RIM = 364.94 INV OUT = 361.500
YI 121	RIM = 358.30 INV IN = 348.700 INV OUT = 348.600
YI 122	RIM = 359.46 INV IN = 350.192 INV OUT = 350.090
YI 123	RIM = 362.63 INV IN = 351.301 INV OUT = 351.200
YI 124	RIM = 362.58 INV IN = 352.520 INV OUT = 352.300
YI 133A	RIM = 368.69 INV OUT = 364.870
YI 136B	RIM = 367.40 INV OUT = 363.900

STRM - SCM 1A Out - Structure Table	
Structure Name	Details
FES-OS-1A	RIM = 347.88 INV IN = 345.000
OS-1A	RIM = 349.48 INV OUT = 346.000

STRM - SCM 1B - Structure Table	
Structure Name	Details
CB 142	RIM = 383.50 INV IN = 374.640 INV OUT = 374.440
CB 143	RIM = 383.49 INV IN = 376.900 INV IN = 374.990 INV OUT = 374.790
CB 143A	RIM = 384.63 INV IN = 375.820 INV OUT = 375.620
CB 144	RIM = 384.28 INV IN = 377.700 INV IN = 378.850 INV OUT = 377.605
CB 144A	RIM = 384.44 INV OUT = 380.600
CB 145	RIM = 386.55 INV IN = 379.260 INV IN = 380.410 INV OUT = 379.163
CB 145A	RIM = 386.55 INV IN = 380.650 INV OUT = 380.550
CB 145B	RIM = 385.11 INV IN = 380.950 INV OUT = 380.850
CB 145C	RIM = 384.81 INV IN = 381.220 INV OUT = 381.124
CB 145D	RIM = 385.45 INV OUT = 381.630
CB 146	RIM = 386.47 INV IN = 380.000 INV IN = 380.750 INV OUT = 379.476
CB 146A	RIM = 386.26 INV IN = 381.100 INV IN = 381.100 INV OUT = 380.890
CB 146B	RIM = 385.50 INV OUT = 381.660
CB 148	RIM = 388.17 INV IN = 381.100 INV OUT = 380.984
CB 149	RIM = 388.87 INV IN = 381.400 INV OUT = 381.310
CB 150	RIM = 388.98 INV IN = 382.050 INV IN = 382.050 INV OUT = 381.546
CB 150A	RIM = 388.79 INV IN = 382.400 INV OUT = 382.278
CB 150B	RIM = 388.52 INV OUT = 382.542
CB 151	RIM = 390.20 INV IN = 382.850 INV OUT = 382.742
CB 152	RIM = 391.31 INV IN = 383.600 INV OUT = 383.476
CB 153	RIM = 391.66 INV IN = 384.330 INV OUT = 384.229
CB 154	RIM = 391.89 INV IN = 384.700 INV OUT = 384.590
CB 154A	RIM = 392.17 INV OUT = 385.123
FES 140	RIM = 375.47 INV IN = 373.470
FES 146C	RIM = 383.08 INV OUT = 381.561
JB-147	RIM = 385.61 INV IN = 376.850 INV OUT = 376.650
YI 141	RIM = 383.00 INV IN = 373.840 INV IN = 377.410 INV OUT = 373.640
YI 141A	RIM = 380.00 INV OUT = 377.952
YI 155	RIM = 385.09 INV OUT = 381.650
YI 156	RIM = 384.64 INV IN = 380.630 INV OUT = 380.430
YI 157	RIM = 384.33 INV IN = 379.760 INV OUT = 379.490
YI 158	RIM = 384.13 INV IN = 378.670 INV OUT = 378.130
YI 158A	RIM = 381.83 INV IN = 379.150 INV IN = 377.770 INV OUT = 377.570

STRM - SCM 1B - Structure Table	
Structure Name	Details
YI 159	RIM = 382.98 INV OUT = 379.540

STRM - SCM 1B Out - Structure Table	
Structure Name	Details
FES-OS-1B	RIM = 375.79 INV IN = 374.000
OS-1B	RIM = 378.52 INV OUT = 375.000

STRM - SCM 1C - Structure Table	
Structure Name	Details
CB 163	RIM = 380.86 INV IN = 372.560 INV OUT = 372.300
CB 164	RIM = 380.13 INV OUT = 372.900
FES 160	RIM = 360.02 INV IN = 358.500
YI 161	RIM = 371.16 INV IN = 363.500 INV OUT = 363.240
YI 162	RIM = 378.80 INV IN = 371.200 INV OUT = 371.000

STRM - SCM 1C Out - Structure Table	
Structure Name	Details
FES-OS-1C	RIM = 359.45 INV IN = 359.500
OS-1C	RIM = 363.43 INV OUT = 360.000

STRM - SCM 2 - Structure Table	
Structure Name	Details
CB 202	RIM = 358.63 INV IN = 352.700 INV IN = 352.700 INV IN = 353.730 INV OUT = 352.487
CB 202A	RIM = 358.63 INV OUT = 353.870
CB 203	RIM = 360.21 INV IN = 353.500 INV IN = 354.450 INV OUT = 353.207
CB 203A	RIM = 360.26 INV OUT = 354.591
CB 204	RIM = 361.27 INV IN = 353.800 INV OUT = 353.709
CB 205	RIM = 361.29 INV IN = 354.050 INV OUT = 353.940
CB 206	RIM = 361.89 INV IN = 354.360 INV OUT = 354.255
CB 207	RIM = 362.70 INV IN = 355.100 INV IN = 355.600 INV OUT = 354.595
CB 208	RIM = 362.70 INV IN = 355.350 INV OUT = 355.240
CB 209	RIM = 364.05 INV IN = 356.070 INV IN = 356.320 INV OUT = 355.569
CB 209A	RIM = 364.21 INV OUT = 356.460
CB 210	RIM = 368.49 INV IN = 360.400 INV OUT = 360.160
CB 211	RIM = 373.42 INV IN = 366.000 INV IN = 366.000 INV OUT = 365.810
CB 211A	RIM = 373.61 INV OUT = 366.140
CB 212	RIM = 376.10 INV IN = 368.200 INV OUT = 368.000
CB 213	RIM = 376.18 INV IN = 368.600 INV OUT = 368.340
CB 214	RIM = 378.36 INV IN = 371.000 INV OUT = 370.800
CB 215	RIM = 383.81 INV IN = 375.200 INV OUT = 375.000
CB 216	RIM = 387.64 INV IN = 379.300 INV IN = 379.300 INV OUT = 379.100
CB 216A	RIM = 387.68 INV OUT = 379.440
CB 217	RIM = 389.06 INV IN = 381.180 INV OUT = 381.000
CB 217A	RIM = 389.05 INV OUT = 381.440
CB 223	RIM = 359.75 INV IN = 354.050 INV IN = 354.050 INV OUT = 353.312
CB 223A	RIM = 359.93 INV OUT = 354.194
CB 224	RIM = 361.35 INV IN = 354.450 INV IN = 354.450 INV OUT = 354.269
CB 224A	RIM = 361.34 INV OUT = 354.590
CB 225	RIM = 365.23 INV OUT = 357.900
CB 226	RIM = 363.67 INV IN = 356.050 INV OUT = 355.933
CB 227	RIM = 364.41 INV IN = 356.380 INV IN = 356.530 INV OUT = 356.275
CB 227A	RIM = 364.41 INV OUT = 356.670
CB 228	RIM = 364.79 INV IN = 357.400 INV OUT = 357.130
FES 200	RIM = 354.38 INV IN = 351.500
FES 240	RIM = 353.29 INV OUT = 352.500

STRM - SCM 2 - Structure Table	
Structure Name	Details
FES 250	RIM = 351.79 INV IN = 351.500
YI 201	RIM = 357.33 INV IN = 352.050 INV OUT = 351.939
YI 229	RIM = 364.50 INV IN = 360.200 INV OUT = 360.000
YI 230	RIM = 366.02 INV IN = 362.200 INV OUT = 362.000
YI 231	RIM = 371.38 INV IN = 367.000 INV OUT = 366.800
YI 232	RIM = 378.55 INV IN = 373.700 INV OUT = 373.500
YI 233	RIM = 380.13 INV IN = 374.700 INV OUT = 374.500
YI 234	RIM = 380.18 INV OUT = 375.380

STRM - SCM 2 Out - Structure Table	
Structure Name	Details
FES-OS-2	RIM = 352.33 INV IN = 350.000
OS-2	RIM = 355.39 INV OUT = 351.000

STRM - SCM 4 - Structure Table	
Structure Name	Details
CB 401	RIM = 370.55 INV IN = 361.250 INV IN = 362.150 INV IN = 362.650 INV OUT = 361.143
CB 402	RIM = 370.31 INV IN = 363.400 INV OUT = 363.200
CB 403	RIM = 370.74 INV IN = 363.900 INV OUT = 363.700
CB 404	RIM = 371.99 INV IN = 364.700 INV IN = 365.700 INV OUT = 364.500
CB 405	RIM = 371.99 INV IN = 365.200 INV OUT = 364.980
CB 406	RIM = 373.69 INV IN = 366.100 INV OUT = 365.880
CB 407	RIM = 375.07 INV IN = 367.760 INV IN = 367.400 INV OUT = 367.200
CB 407A	RIM = 375.64 INV IN = 368.310 INV OUT = 368.110
CB 408	RIM = 378.43 INV IN = 370.700 INV IN = 370.700 INV OUT = 370.500
CB 409	RIM = 380.23 INV IN = 372.800 INV OUT = 372.600
CB 410	RIM = 382.08 INV IN = 374.500 INV OUT = 374.300
CB 411	RIM = 384.96 INV IN = 375.500 INV OUT = 375.300
CB 412	RIM = 384.52 INV IN = 375.900 INV OUT = 375.700
CB 413	RIM = 384.70 INV IN = 376.800 INV OUT = 376.600
CB 414	RIM = 384.67 INV IN = 377.200 INV OUT = 377.000
CB 415	RIM = 384.57 INV IN = 377.900 INV OUT = 377.670
CB 416	RIM = 385.58 INV IN = 378.600 INV OUT = 378.360
CB 417	RIM = 385.58 INV IN = 379.000 INV OUT = 378.770
CB 418	RIM = 386.00 INV OUT = 379.220
CB 419	RIM = 378.40 INV IN = 371.100 INV OUT = 370.870
CB 420	RIM = 379.57 INV IN = 371.700 INV OUT = 371.500
CB 421	RIM = 379.48 INV IN = 372.200 INV OUT = 371.990
CB 422	RIM = 381.78 INV IN = 373.500 INV IN = 373.500 INV OUT = 373.280
CB 422A	RIM = 381.93 INV IN = 373.900 INV IN = 373.900 INV OUT = 373.700
CB 422C	RIM = 381.95 INV IN = 374.400 INV OUT = 374.220
CB 422D	RIM = 381.69 INV IN = 374.800 INV OUT = 374.600
CB 422E	RIM = 382.03 INV OUT = 376.560
CB 423	RIM = 385.53 INV IN = 375.500 INV IN = 375.500 INV OUT = 375.290
CB 423A	RIM = 384.81 INV OUT = 375.840
CB 424	RIM = 387.38 INV IN = 377.200 INV OUT = 376.920
CB 425	RIM = 385.70 INV IN = 377.750 INV OUT = 377.520

STRM - SCM 4 - Structure Table	
Structure Name	Details
CB 426	RIM = 385.54 INV IN = 378.200 INV OUT = 377.920
CB 427	RIM = 384.81 INV OUT = 378.650
CB 428	RIM = 371.84 INV IN = 364.700 INV OUT = 364.500
CB 429	RIM = 379.68 INV IN = 371.700 INV OUT = 371.500
CB 429A	RIM = 380.12 INV OUT = 371.850
CB 430	RIM = 372.10 INV IN = 364.300 INV IN = 364.300 INV OUT = 364.080
CB 431	RIM = 372.42 INV IN = 364.700 INV OUT = 364.500
CB 432	RIM = 374.83 INV IN = 367.600 INV OUT = 367.400
CB 433	RIM = 379.86 INV IN = 372.000 INV OUT = 371.800
CB 433A	RIM = 380.67 INV OUT = 372.200
CB 434	RIM = 370.15 INV IN = 364.750 INV OUT = 364.530
CB 435	RIM = 370.89 INV IN = 365.150 INV OUT = 364.920
CB 436	RIM = 373.17 INV IN = 365.600 INV OUT = 365.380
CB 436A	RIM = 373.41 INV OUT = 365.740
FES 400	RIM = 365.92 INV IN = 361.000
YI 404A	RIM = 370.85 INV OUT = 365.920
YI 407B	RIM = 370.59 INV IN = 368.920 INV OUT = 368.767
YI 407C	RIM = 373.44 INV IN = 371.031 INV OUT = 370.815
YI 407D	RIM = 381.22 INV IN = 373.693 INV OUT = 373.585
YI 407E	RIM = 382.53 INV OUT = 376.493
YI 422B	RIM = 381.93 INV OUT = 374.510

STRM - SCM 4A Out - Structure Table	
Structure Name	Details
FES-OS-4	RIM = 358.42 INV IN = 355.000
OS-4	RIM = 363.47 INV OUT = 357.000

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

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

PRELIMINARY

NORTH CAROLINA PROFESSIONAL ENGINEER 36528 JACOB P. KLEIN

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

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SCHEDULE

SHEET NO.:

G-007

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Z:\Jobs\23-0004 Merritt Property BRD\dwg_Working Dwgs\Sheets\Construction Set\4_G-004 General Notes and Schedule.dwg

2025-05-01

STRM - SCM 5A - Structure Table	
Structure Name	Details
CB 503	RIM = 331.22 INV IN = 323.860 INV OUT = 323.600
CB 503A	RIM = 331.31
CB 504	RIM = 332.34 INV IN = 324.400 INV IN = 325.600 INV OUT = 324.400
CB 504A	RIM = 332.72 INV OUT = 325.860
CB 505	RIM = 333.30 INV IN = 325.500 INV OUT = 325.000
CB 506	RIM = 334.36 INV IN = 326.900 INV IN = 326.900 INV OUT = 326.660
CB 507	RIM = 335.34 INV IN = 327.650 INV IN = 327.850 INV OUT = 327.450
CB 507A	RIM = 335.58 INV OUT = 328.150
CB 508	RIM = 336.47 INV IN = 328.600 INV OUT = 328.400
CB 509	RIM = 341.19 INV IN = 333.200 INV IN = 333.200 INV OUT = 333.000
CB 509A	RIM = 344.77 INV OUT = 336.300
CB 510	RIM = 356.85 INV IN = 348.500 INV OUT = 348.280
CB 510A	RIM = 362.07 INV OUT = 353.530
CB 511	RIM = 339.62 INV IN = 328.200 INV IN = 328.200 INV OUT = 328.010
CB 511A	RIM = 339.79 INV OUT = 329.810
CB 512	RIM = 345.07 INV IN = 335.200 INV OUT = 334.970
CB 513	RIM = 350.62 INV IN = 342.100 INV OUT = 341.850
CB 514	RIM = 358.47 INV IN = 351.300 INV OUT = 351.060
CB 514A	RIM = 360.58 INV OUT = 352.590
CB 515	RIM = 334.48 INV IN = 327.300 INV OUT = 327.070
CB 516	RIM = 335.34 INV IN = 327.800 INV OUT = 327.570
CB 517	RIM = 335.35 INV IN = 328.200 INV OUT = 327.970
CB 518	RIM = 338.15 INV IN = 330.650 INV OUT = 330.460
CB 519	RIM = 341.61 INV IN = 334.400 INV IN = 334.400 INV IN = 335.400 INV OUT = 334.150
CB 519A	RIM = 342.75 INV OUT = 335.780
CB 520	RIM = 347.48 INV IN = 339.800 INV IN = 339.800 INV OUT = 339.620
CB 521	RIM = 351.43 INV IN = 343.850 INV OUT = 343.630
CB 522	RIM = 355.09 INV IN = 347.500 INV IN = 347.800 INV OUT = 347.240
CB 522A	RIM = 356.31 INV OUT = 348.130
CB 523	RIM = 359.68 INV IN = 351.700 INV IN = 351.700 INV OUT = 351.500
CB 524	RIM = 369.27 INV IN = 361.200 INV IN = 361.200 INV OUT = 361.000
CB 524A	RIM = 369.37 INV OUT = 361.480

STRM - SCM 5A - Structure Table	
Structure Name	Details
CB 525	RIM = 374.04 INV IN = 366.700 INV IN = 366.700 INV OUT = 366.500
CB 525A	RIM = 376.59 INV OUT = 367.580
CB 526	RIM = 381.89 INV IN = 374.200 INV OUT = 374.000
CB 527	RIM = 383.97 INV IN = 375.900 INV OUT = 375.700
CB 528	RIM = 385.09 INV IN = 376.800 INV IN = 376.800 INV OUT = 376.570
CB 528A	RIM = 385.24 INV OUT = 377.080
CB 529	RIM = 386.05 INV IN = 378.000 INV OUT = 377.780
CB 530	RIM = 388.08 INV IN = 380.300 INV OUT = 380.100
CB 531	RIM = 389.36 INV IN = 381.800 INV IN = 381.800 INV OUT = 381.580
CB 531A	RIM = 389.69 INV OUT = 382.080
CB 532	RIM = 390.24 INV IN = 382.900 INV OUT = 382.700
CB 532A	RIM = 390.50 INV IN = 383.240 INV OUT = 383.040
CB 533	RIM = 0.00 INV OUT = 383.500
CB 534	RIM = 362.88 INV IN = 354.700 INV OUT = 354.500
CB 535	RIM = 366.31 INV IN = 358.600 INV IN = 358.600 INV OUT = 358.400
CB 535A	RIM = 366.38 INV OUT = 358.880
CB 536	RIM = 368.45 INV IN = 361.200 INV IN = 361.200 INV OUT = 361.000
CB 536A	RIM = 368.67 INV OUT = 361.480
CB 537	RIM = 373.93 INV IN = 366.200 INV OUT = 366.000
CB 537A	RIM = 375.13 INV OUT = 367.560
CB 538	RIM = 347.93 INV IN = 340.300 INV OUT = 340.100
CB 539	RIM = 349.93 INV IN = 342.700 INV IN = 342.700 INV OUT = 342.500
CB 539A	RIM = 350.05 INV OUT = 342.980
CB 540	RIM = 356.76
CB 541	RIM = 360.25 INV IN = 352.200 INV OUT = 352.000
CB 541A	RIM = 360.48 INV OUT = 352.870
FES 500	RIM = 324.50 INV IN = 319.000
JB 502	RIM = 339.78 INV IN = 322.900 INV IN = 325.000 INV OUT = 322.610
JB 540	RIM = 356.76 INV IN = 348.800 INV OUT = 348.600
YI 501	RIM = 339.44 INV IN = 322.250 INV OUT = 322.000
YI 519B	RIM = 337.61 INV IN = 335.000 INV OUT = 334.820
YI 519C	RIM = 352.17 INV IN = 348.000 INV OUT = 347.710

STRM - SCM 5A - Structure Table	
Structure Name	Details
YI 519D	RIM = 367.75 INV IN = 364.200 INV OUT = 364.000
YI 519E	RIM = 375.24 INV OUT = 366.540

STRM - SCM 5A Out - Structure Table	
Structure Name	Details
FES-OS-5A	RIM = 315.33 INV IN = 313.000
OS-5A	RIM = 321.42 INV OUT = 314.800

STRM - SCM 5B - Structure Table	
Structure Name	Details
CB 505 (Copy)	RIM = 333.37 INV OUT = 325.000
CB 562 (Copy)	RIM = 312.97 INV OUT = 306.028
FES 550	RIM = 316.79 INV OUT = 315.000
FES 555	RIM = 301.78 INV IN = 305.500
JB 551	RIM = 332.61 INV IN = 322.344 INV IN = 316.000
JB 556	RIM = 315.72 INV IN = 305.800 INV OUT = 305.714

STRM - SCM 5B Out - Structure Table	
Structure Name	Details
FES-OS-5B	RIM = 303.13 INV IN = 301.337
OS-5B	RIM = 309.59 INV OUT = 305.000

STRM - SCM 5C - Structure Table	
Structure Name	Details
CB 562	RIM = 312.97 INV IN = 306.500 INV IN = 307.000 INV OUT = 306.000
CB 562A	RIM = 311.09 INV OUT = 307.882
CB 563	RIM = 317.91 INV IN = 309.620 INV OUT = 309.400
CB 564	RIM = 325.97 INV IN = 318.440 INV OUT = 318.200
CB 565	RIM = 339.97 INV IN = 332.200 INV OUT = 331.000
CB 566	RIM = 354.98 INV IN = 347.050 INV OUT = 346.800
CB 567	RIM = 363.93 INV IN = 355.220 INV OUT = 355.000
CB 568	RIM = 366.74 INV IN = 358.570 INV OUT = 358.300
CB 569	RIM = 369.33 INV IN = 360.860 INV OUT = 360.600
CB 570	RIM = 379.86 INV IN = 371.250 INV OUT = 371.000
CB 571	RIM = 386.83 INV IN = 375.654 INV OUT = 375.400
CB 572	RIM = 386.51 INV IN = 377.800 INV OUT = 377.600
CB 572A	RIM = 385.02 INV OUT = 380.404
FES 560	RIM = 294.38 INV IN = 292.000
JB 561	RIM = 306.95 INV IN = 300.710 INV OUT = 296.790

STRM - SCM 5C Out - Structure Table	
Structure Name	Details
FES-OS-5C	RIM = 291.29 INV IN = 289.500
OS-5C	RIM = 295.47 INV OUT = 291.000

STRM - SCM 6A - Structure Table	
Structure Name	Details
CB 603	RIM = 310.62 INV IN = 303.300 INV OUT = 303.100
CB 604	RIM = 316.23 INV IN = 308.700 INV IN = 308.700 INV OUT = 308.500
CB 604A	RIM = 318.16 INV OUT = 309.489
CB 605	RIM = 326.22 INV IN = 318.400 INV OUT = 318.200
CB 605A	RIM = 326.30 INV OUT = 318.680
FES 600	RIM = 278.52 INV IN = 282.000
JB 602	RIM = 297.41 INV IN = 291.200 INV OUT = 291.000
YI 601	RIM = 294.62 INV IN = 286.200 INV OUT = 286.000

STRM - SCM 6A Out - Structure Table	
Structure Name	Details
FES-OS-6A	RIM = 275.79 INV IN = 274.000
OS-6A	RIM = 285.51 INV OUT = 276.500

STRM - SCM 6B - Structure Table	
Structure Name	Details
CB 610	RIM = 299.64 INV IN = 289.000
CB 611	RIM = 314.09 INV IN = 290.200 INV OUT = 290.000
CB 612	RIM = 318.02 INV IN = 301.280 INV OUT = 301.000
CB 613	RIM = 315.00 INV IN = 301.900 INV IN = 301.910 INV OUT = 301.700
CB 613A	RIM = 310.31 INV IN = 302.400 INV OUT = 302.200
CB 613B	RIM = 310.04 INV OUT = 302.640
CB 614	RIM = 319.55 INV IN = 306.250 INV OUT = 306.050
CB 615	RIM = 324.12 INV IN = 311.000 INV IN = 311.000 INV OUT = 310.800
CB 615A	RIM = 326.34 INV IN = 319.000 INV IN = 319.000 INV OUT = 318.800
CB 615B	RIM = 326.31 INV OUT = 319.280
CB 615C	RIM = 327.22 INV IN = 319.800 INV OUT = 319.600
CB 615D	RIM = 327.23 INV OUT = 319.970
CB 616	RIM = 324.70 INV IN = 314.000 INV OUT = 313.800
CB 617	RIM = 331.00 INV IN = 319.600 INV IN = 319.600 INV OUT = 319.400
CB 617A	RIM = 331.00 INV OUT = 323.000
CB 618	RIM = 336.57 INV IN = 327.200 INV IN = 327.200 INV OUT = 327.000
CB 618A	RIM = 340.36 INV IN = 331.800 INV OUT = 331.600
CB 618B	RIM = 340.43 INV OUT = 331.990
CB 619	RIM = 337.18 INV IN = 327.600 INV OUT = 327.410
CB 620	RIM = 334.59 INV IN = 328.200 INV OUT = 328.000
CB 621	RIM = 333.35 INV IN = 328.600 INV OUT = 328.400
CB 622	RIM = 337.00 INV IN = 329.300 INV OUT = 329.100
CB 623	RIM = 336.78 INV IN = 329.800 INV OUT = 329.600
CB 624	RIM = 344.51 INV IN = 335.900 INV OUT = 335.700
CB 625	RIM = 345.87 INV IN = 338.200 INV IN = 338.200 INV OUT = 338.000
CB 625A	RIM = 345.85 INV OUT = 338.480
CB 626	RIM = 352.47 INV IN = 344.500 INV OUT = 344.300
CB 627	RIM = 352.51 INV IN = 345.100 INV OUT = 344.900
CB 628	RIM = 354.03 INV IN = 346.500 INV OUT = 346.260
CB 628A	RIM = 354.08 INV OUT = 346.670
CB 633	RIM = 313.86 INV IN = 302.900 INV OUT = 302.700
CB 634	RIM = 311.00 INV OUT = 305.000
FES 630	RIM = 290.79 INV IN = 289.000

STRM - SCM 6B - Structure Table	
Structure Name	Details
YI 631	RIM = 309.82 INV IN = 290.200 INV OUT = 290.000
YI 632	RIM = 315.26 INV IN = 301.200 INV OUT = 301.000

STRM - SCM 6B Out - Structure Table	
Structure Name	Details
FES-OS-6B	RIM = 285.29 INV IN = 283.500
OS-6B	RIM = 292.40 INV OUT = 284.000

STRM - SCM 7 - Structure Table	
Structure Name	Details
CB 702A	RIM = 328.75 INV IN = 320.110 INV OUT = 319.840
CB 703	RIM = 332.78 INV IN = 328.960 INV IN = 328.960 INV OUT = 328.760
CB 703A	RIM = 333.86 INV OUT = 330.000
CB 704	RIM = 342.10 INV OUT = 338.250
CB 752	RIM = 349.87 INV OUT = 344.000
FES 700	RIM = 320.19 INV IN = 317.500
FES 750	RIM = 320.33 INV IN = 318.000
JB 702	RIM = 331.65 INV IN = 327.830 INV IN = 319.450 INV OUT = 318.900
JB 751	RIM = 342.35 INV IN = 325.200 INV OUT = 325.000
YI 701	RIM = 330.60 INV IN = 318.270 INV OUT = 318.070
YI 702B	RIM = 323.85 INV OUT = 320.400

STRM - SCM 7 Out - Structure Table	
Structure Name	Details
FES-OS-7	RIM = 314.79 INV IN = 312.000
OS-7	RIM = 321.42 INV OUT = 313.000

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PRELIMINARY

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JAKOB P. KLEIN

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MERRITT RESERVE

SCHEDULE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

SCHEDULE

SHEET NO.: **G-008**

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

Z:\Jobs\23-0004 Merritt Property BRP\Dwgs_Working Dwgs\Sheets\Construction Set\4_G-004 General Notes and Schedule.dwg

2025-05-01

STRM - SCM 1A - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 101	FES 100	30"	146.77	4.56%	347.00	353.69
CB 102	CB 101	24"	102.65	0.54%	354.20	354.75
CB 103	CB 102	15"	43.84	0.50%	355.57	355.79
CB 104	CB 103	15"	28.00	0.50%	355.99	356.13
CB 105	CB 104	15"	111.66	0.50%	356.33	356.89
CB 105A	CB 105	15"	28.51	0.53%	357.09	357.24
CB 106	CB 102	18"	28.00	1.29%	358.83	359.19
CB 107	CB 106	18"	43.84	0.50%	359.39	359.61
CB 108	CB 107	18"	28.01	0.50%	359.81	359.95
CB 109	CB 108	18"	238.74	3.41%	360.15	368.30
CB 109A	CB 109	15"	45.23	2.83%	368.57	369.85
CB 111	JB 110	15"	146.61	0.50%	374.86	375.60
CB 111A	CB 111	15"	28.00	0.71%	375.80	376.00
CB 112	CB 111	15"	45.58	3.42%	376.00	377.56
CB 112A	CB 112	15"	28.00	0.50%	377.76	377.90
CB 113	CB 101	24"	28.98	2.83%	354.20	355.02
CB 114	CB 113	15"	88.77	3.00%	355.77	358.43
CB 115	CB 114	15"	121.13	0.95%	358.63	359.78
CB 115A	CB 115	15"	30.91	0.87%	359.98	360.25
CB 116	CB 115	15"	217.76	1.08%	359.98	362.34
CB 125	YI 124	30"	156.74	0.50%	352.52	353.30
CB 125A	CB 125	18"	28.00	0.60%	354.33	354.50
CB 126	CB 125	24"	86.39	7.96%	353.50	360.38
CB 127	CB 126	24"	43.84	0.50%	360.58	360.80
CB 128	CB 127	24"	28.00	0.64%	361.00	361.18
CB 129	CB 128	24"	43.84	0.52%	361.37	361.60
CB 130	CB 129	18"	28.02	0.50%	362.56	362.70
CB 131	CB 130	18"	43.14	0.51%	362.90	363.12
CB 131A	CB 131	15"	26.01	0.50%	363.56	363.69
CB 132	CB 131	18"	106.05	0.50%	363.40	363.93
CB 134	JB 133	15"	57.23	1.15%	366.48	367.14
CB 134A	CB 134	15"	26.00	0.96%	367.34	367.59
CB 135	CB 134	15"	161.00	4.36%	367.34	374.36
CB 136	CB 129	24"	111.29	0.50%	361.80	362.36
CB 136A	CB 136	24"	28.00	0.50%	362.56	362.70
CB 137	CB 125A	18"	60.54	0.60%	354.74	355.10
CB 138	CB 137	15"	26.00	0.60%	355.34	355.50
JB 110	CB 109	15"	211.86	2.87%	368.57	374.66
JB 113A	CB 113	24"	81.81	0.51%	355.22	355.64
JB 133	CB 132	15"	60.79	0.51%	364.20	364.51
YI 113B	JB 113A	18"	72.15	0.51%	356.18	356.55
YI 113C	YI 113B	18"	96.14	1.19%	356.75	357.89
YI 113D	YI 113C	15"	202.63	1.65%	358.16	361.50
YI 121	FES 120	30"	39.71	4.03%	347.00	348.60
YI 122	YI 121	30"	163.30	0.85%	348.70	350.09
YI 123	YI 122	30"	201.56	0.50%	350.19	351.20
YI 124	YI 123	30"	199.86	0.50%	351.30	352.30
YI 133A	JB 133	15"	31.12	0.51%	364.71	364.87
YI 136B	CB 136A	15"	76.22	0.51%	363.51	363.90

STRM - SCM 1B - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 142	YI 141	36"	119.46	0.50%	373.84	374.44
CB 143	CB 142	36"	29.06	0.52%	374.64	374.79
CB 143A	CB 143	30"	125.10	0.50%	374.99	375.62
CB 144	CB 143	30"	141.00	0.50%	376.90	377.61
CB 144A	CB 144	15"	34.36	5.09%	378.85	380.60
CB 145	CB 144	30"	292.67	0.50%	377.70	379.16
CB 145A	CB 145	15"	28.00	0.50%	380.41	380.55
CB 145B	CB 145A	15"	39.91	0.50%	380.65	380.85
CB 145C	CB 145B	15"	34.85	0.50%	380.95	381.12
CB 145D	CB 145C	15"	44.14	0.93%	381.22	381.63
CB 146	CB 145	30"	43.29	0.50%	379.26	379.48
CB 146A	CB 146	15"	28.04	0.50%	380.75	380.89
CB 146B	CB 146A	15"	44.39	1.26%	381.10	381.66
CB 148	CB 146	24"	196.77	0.50%	380.00	380.98
CB 149	CB 148	24"	41.95	0.50%	381.10	381.31
CB 150	CB 149	24"	29.27	0.50%	381.40	381.55
CB 150A	CB 150	18"	45.62	0.50%	382.05	382.28
CB 150B	CB 150A	18"	28.36	0.50%	382.40	382.54
CB 151	CB 150	18"	138.41	0.50%	382.05	382.74
CB 152	CB 151	15"	125.15	0.50%	382.85	383.48
CB 153	CB 152	15"	42.07	1.50%	383.60	384.23
CB 154	CB 153	15"	28.00	0.93%	384.33	384.59
CB 154A	CB 154	15"	50.22	0.84%	384.70	385.12
FES 146C	CB 146A	15"	88.94	0.52%	381.10	381.56
JB-147	CB 143A	30"	164.84	0.50%	375.82	376.65
YI 141	FES 140	36"	33.09	0.51%	373.47	373.64
YI 141A	YI 141	15"	108.34	0.50%	377.41	377.95
YI 155	YI 156	15"	202.66	0.50%	380.63	381.65
YI 156	YI 157	15"	134.09	0.50%	379.76	380.43
YI 157	YI 158	18"	163.78	0.50%	378.67	379.49
YI 158	YI 158A	24"	71.76	0.50%	377.77	378.13
YI 158A	JB-147	30"	143.18	0.50%	376.85	377.57
YI 159	YI 158A	15"	76.39	0.51%	379.15	379.54

STRM - SCM 1C - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 163	YI 162	15"	119.13	0.92%	371.20	372.30
CB 164	CB 163	15"	34.00	1.00%	372.56	372.90
YI 161	FES 160	15"	56.51	8.39%	358.50	363.24
YI 162	YI 161	15"	136.00	5.51%	363.50	371.00

STRM - SCM 2 - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 202	YI 201	30"	87.46	0.50%	352.05	352.49
CB 202A	CB 202	15"	28.00	0.50%	353.73	353.87
CB 203	CB 202	30"	101.41	0.50%	352.70	353.21
CB 203A	CB 203	15"	28.14	0.50%	354.45	354.59
CB 204	CB 203	30"	41.79	0.50%	353.50	353.71
CB 205	CB 204	30"	28.01	0.50%	353.80	353.94
CB 206	CB 205	30"	41.08	0.50%	354.05	354.26
CB 207	CB 206	30"	46.93	0.50%	354.36	354.59
CB 208	CB 207	24"	28.00	0.50%	355.10	355.24
CB 209	CB 208	24"	43.84	0.50%	355.35	355.57
CB 209A	CB 209	15"	28.00	0.50%	356.32	356.46
CB 210	CB 209	18"	92.66	4.41%	356.07	360.16
CB 211	CB 210	18"	92.66	5.84%	360.40	365.81
CB 211A	CB 211	15"	28.25	0.50%	366.00	366.14
CB 212	CB 211	18"	45.24	4.42%	366.00	368.00
CB 213	CB 212	18"	28.24	0.50%	368.20	368.34
CB 214	CB 213	18"	45.69	4.82%	368.60	370.80
CB 215	CB 214	15"	102.57	3.90%	371.00	375.00
CB 216	CB 215	15"	80.72	4.83%	375.20	379.10
CB 216A	CB 216	15"	28.13	0.50%	379.30	379.44
CB 217	CB 216	15"	41.48	4.10%	379.30	381.00
CB 217A	CB 217	15"	28.00	0.93%	381.18	381.44
CB 223	CB 202	24"	122.43	0.50%	352.70	353.31
CB 223A	CB 223	15"	28.75	0.50%	354.05	354.19
CB 224	CB 223	15"	43.84	0.50%	354.05	354.27
CB 224A	CB 224	15"	28.01	0.50%	354.45	354.59
CB 225	CB 224	15"	135.02	2.56%	354.45	357.90
CB 226	CB 207	18"	66.60	0.50%	355.60	355.93
CB 227	CB 226	18"	45.06	0.50%	356.05	356.28
CB 227A	CB 227	15"	28.06	0.50%	356.53	356.67
CB 228	CB 227	18"	87.91	0.85%	356.38	357.13
FES 240	FES 250	18"	80.08	1.25%	351.50	352.50
YI 201	FES 200	30"	87.74	0.50%	351.50	351.94
YI 229	CB 228	18"	81.37	3.20%	357.40	360.00
YI 230	YI 229	18"	68.90	2.61%	360.20	362.00
YI 231	YI 230	18"	130.00	3.54%	362.20	366.80
YI 232	YI 231	15"	203.73	3.19%	367.00	373.50
YI 233	YI 232	15"	82.35	0.97%	373.70	374.50
YI 234	YI 233	15"	68.00	1.00%	374.70	375.38

STRM - SCM 4 - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 401	FES 400	36"	28.62	0.50%	361.00	361.14
CB 402	CB 401	36"	26.02	7.50%	361.25	363.20
CB 403	CB 402	30"	33.74	0.89%	363.40	363.70
CB 404	CB 403	30"	43.84	1.37%	363.90	364.50
CB 405	CB 404	30"	28.00	1.00%	364.70	364.98
CB 406	CB 405	30"	67.79	1.00%	365.20	365.88
CB 407	CB 406	30"	56.32	1.95%	366.10	367.20
CB 407A	CB 407	18"	35.48	0.99%	367.76	368.11
CB 408	CB 407	24"	127.50	2.43%	367.40	370.50
CB 409	CB 408	18"	64.62	2.94%	370.70	372.60
CB 410	CB 409	18"	49.98	3.00%	372.80	374.30
CB 411	CB 410	18"	137.71	0.58%	374.50	375.30
CB 412	CB 411	18"	34.00	0.59%	375.50	375.70
CB 413	CB 412	15"	115.23	0.61%	375.90	376.60
CB 414	CB 413	15"	28.00	0.71%	376.80	377.00
CB 415	CB 414	15"	78.85	0.60%	377.20	377.67
CB 416	CB 415	15"	76.95	0.60%	377.90	378.36
CB 417	CB 416	15"	28.00	0.61%	378.60	378.77
CB 418	CB 417	15"	37.37	0.59%	379.00	379.22
CB 419	CB 408	24"	28.10	0.61%	370.70	370.87
CB 420	CB 419	24"	43.42	0.92%	371.10	371.50
CB 421	CB 420	18"	29.43	0.99%	371.70	371.99
CB 422	CB 421	18"	54.01	2.00%	372.20	373.28
CB 422A	CB 422	18"	34.02	0.59%	373.50	373.70
CB 422C	CB 422A	15"	53.16	0.60%	373.90	374.22
CB 422D	CB 422C	15"	28.00	0.71%	374.40	374.60
CB 422E	CB 422D	15"	44.04	4.00%	374.80	376.56
CB 423	CB 422	15"	297.67	0.60%	373.50	375.29
CB 423A	CB 423	18"	34.07	1.00%	375.50	375.84
CB 424	CB 423	15"	237.37	0.60%	375.50	376.92
CB 425	CB 424	15"	54.00	0.59%	377.20	377.52
CB 426	CB 425	15"	28.51	0.60%	377.75	377.92
CB 427	CB 426	15"	74.49	0.60%	378.20	378.65
CB 428	CB 401	18"	97.08	1.91%	362.65	364.50
CB 429	CB 428	15"	181.82	3.74%	364.70	371.50
CB 429A	CB 429	15"	29.58	0.51%	371.70	371.85
CB 430	CB 401	24"	206.01	0.94%	362.15	364.08
CB 431	CB 430	15"	28.00	0.71%	364.30	364.50
CB 432	CB 431	15"	46.67	5.79%	364.70	367.40
CB 433	CB 432	15"	101.48	4.14%	367.60	371.80
CB 433A	CB 433	15"	34.02	0.59%	372.00	372.20
CB 434	CB 430	15"	46.67	0.49%	364.30	364.53
CB 435	CB 434	15"	34.00	0.50%	364.75	364.92
CB 436	CB 435	15"	46.67	0.49%	365.15	365.38
CB 436A	CB 436	15"	28.00	0.50%	365.60	365.74
YI 404A	CB 404	15"	21.89	1.00%	365.70	365.92
YI 407B	CB 407A	18"	90.61	0.50%	368.31	368.77
YI 407C	YI 407B	18"	153.37	1.24%	368.92	370.82
YI 407D	YI 407C	15"	166.31	1.54%	371.03	373.58
YI 407E	YI 407D	15"	140.12	2.00%	373.69	376.49
YI 422B	CB 422A	15"	60.89	1.00%	373.90	374.51

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PRELIMINARY

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER 36528 JAKOB P. KLEIN

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DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

SCHEDULE

SHEET NO.:

G-009

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

Z:\Jobs\23-0004 Merritt Property @RP\Dwg_Working Dwgs\Sheets\Construction Set\4. G-004 General Notes and Schedule.dwg

2025-05-01

STRM - SCM 5A - PIPE SUMMARY						
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 503	JB 502	42"	110.09	0.64%	322.90	323.60
CB 504	CB 503	42"	90.20	0.60%	323.86	324.40
CB 504A	CB 504	15"	28.00	0.93%	325.60	325.86
CB 505	CB 504	42"	96.91	0.62%	324.40	325.00
CB 506	CB 505	42"	105.50	1.10%	325.50	326.66
CB 507	CB 506	24"	110.22	0.50%	326.90	327.45
CB 507A	CB 507	15"	30.00	1.00%	327.85	328.15
CB 508	CB 507	24"	130.56	0.57%	327.65	328.40
CB 509	CB 508	18"	132.41	3.32%	328.60	333.00
CB 509A	CB 509	15"	62.44	4.96%	333.20	336.30
CB 510	CB 509	15"	201.00	7.50%	333.20	348.28
CB 510A	CB 510	15"	63.00	7.98%	348.50	353.53
CB 511	JB 502	18"	37.83	7.96%	325.00	328.01
CB 511A	CB 511	15"	28.38	5.67%	328.20	329.81
CB 512	CB 511	15"	67.67	10.00%	328.20	334.97
CB 513	CB 512	15"	66.50	10.00%	335.20	341.85
CB 514	CB 513	15"	89.62	10.00%	342.10	351.06
CB 514A	CB 514	18"	37.67	3.42%	351.30	352.59
CB 515	CB 506	42"	28.01	0.61%	326.90	327.07
CB 516	CB 515	42"	45.48	0.59%	327.30	327.57
CB 517	CB 516	42"	28.15	0.60%	327.80	327.97
CB 518	CB 517	36"	75.32	3.00%	328.20	330.46
CB 519	CB 518	36"	87.58	4.00%	330.65	334.15
CB 519A	CB 519	15"	38.00	1.00%	335.40	335.78
CB 520	CB 519	30"	149.17	3.50%	334.40	339.62
CB 521	CB 520	24"	96.00	3.99%	339.80	343.63
CB 522	CB 521	24"	67.78	5.00%	343.85	347.24
CB 522A	CB 522	15"	32.60	1.01%	347.80	348.13
CB 523	CB 522	24"	67.24	5.95%	347.50	351.50
CB 524	CB 523	24"	133.10	6.99%	351.70	361.00
CB 524A	CB 524	15"	28.01	1.00%	361.20	361.48
CB 525	CB 524	24"	66.11	8.02%	361.20	366.50
CB 525A	CB 525	15"	43.79	2.01%	366.70	367.58
CB 526	CB 525	18"	129.00	5.66%	366.70	374.00
CB 527	CB 526	18"	60.24	2.49%	374.20	375.70
CB 528	CB 527	18"	44.83	1.49%	375.90	376.57
CB 528A	CB 528	15"	28.09	1.00%	376.80	377.08
CB 529	CB 528	15"	98.44	1.00%	376.80	377.78
CB 530	CB 529	15"	205.64	1.02%	378.00	380.10
CB 531	CB 530	15"	128.18	1.00%	380.30	381.58
CB 531A	CB 531	15"	28.05	1.00%	381.80	382.08
CB 532	CB 531	15"	89.74	1.00%	381.80	382.70
CB 532A	CB 532	15"	28.07	0.50%	382.90	383.04
CB 533	CB 532A	15"	45.00	0.58%	383.24	383.50
CB 534	CB 523	18"	50.67	5.53%	351.70	354.50
CB 535	CB 534	18"	43.84	8.44%	354.70	358.40
CB 535A	CB 535	15"	28.00	1.00%	358.60	358.88
CB 536	CB 535	15"	131.64	1.82%	358.60	361.00
CB 536A	CB 536	15"	28.09	1.00%	361.20	361.48
CB 537	CB 536	15"	173.32	2.77%	361.20	366.00
CB 537A	CB 537	15"	38.55	3.53%	366.20	367.56
CB 538	CB 520	24"	28.50	1.05%	339.80	340.10
CB 539	CB 538	18"	48.00	4.58%	340.30	342.50
CB 539A	CB 539	15"	28.00	1.00%	342.70	342.98
CB 541	JB 540	15"	73.25	4.37%	348.80	352.00
CB 541A	CB 541	15"	27.89	2.40%	352.20	352.87
JB 502	YI 501	42"	72.83	0.49%	322.25	322.61
JB 540	CB 539	15"	115.72	5.10%	342.70	348.60
YI 501	FES 500	48"	85.05	3.53%	319.00	322.00
YI 519B	CB 519	30"	83.73	0.50%	334.40	334.82
YI 519C	YI 519B	24"	306.99	4.14%	335.00	347.71
YI 519D	YI 519C	18"	200.86	7.97%	348.00	364.00
YI 519E	YI 519D	15"	234.00	1.00%	364.20	366.54

STRM - SCM 5B - PIPE SUMMARY						
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 562 (Copy)	JB 556	24"	45.66	0.50%	305.80	306.03
FES 550	JB 551	18"	13.50	-7.41%	316.00	315.00
JB 551	CB 505 (Copy)	18"	26.56	10.00%	325.00	322.34
JB 556	FES 555	24"	42.89	0.50%	305.50	305.71

STRM - SCM 5C - PIPE SUMMARY						
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 562	JB 561	30"	79.00	6.70%	300.71	306.00
CB 562A	CB 562	18"	176.32	0.50%	307.00	307.88
CB 563	CB 562	24"	163.56	1.77%	306.50	309.40
CB 564	CB 563	24"	180.72	4.75%	309.62	318.20
CB 565	CB 564	24"	228.43	5.50%	318.44	331.00
CB 566	CB 565	24"	275.66	5.30%	332.20	346.80
CB 567	CB 566	18"	353.41	2.25%	347.05	355.00
CB 568	CB 567	15"	153.91	2.00%	355.22	358.30
CB 569	CB 568	15"	101.67	2.00%	358.57	360.60
CB 570	CB 569	15"	289.58	3.50%	360.86	371.00
CB 571	CB 570	15"	276.54	1.50%	371.25	375.40
CB 572	CB 571	15"	389.26	0.50%	375.65	377.60
CB 572A	CB 572	15"	86.96	2.99%	377.80	380.40
JB 561	FES 560	30"	72.48	6.61%	292.00	296.79

STRM - SCM 6A - PIPE SUMMARY						
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 603	JB 602	15"	133.09	8.94%	291.20	303.10
CB 604	CB 603	15"	75.22	6.91%	303.30	308.50
CB 604A	CB 604	18"	37.85	2.08%	308.70	309.49
CB 605	CB 604	15"	132.56	7.17%	308.70	318.20
CB 605A	CB 605	15"	28.02	1.00%	318.40	318.68
JB 602	YI 601	15"	55.12	8.71%	286.20	291.00
YI 601	FES 600	15"	96.48	4.15%	282.00	286.00

STRM - SCM 6B - PIPE SUMMARY						
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 611	CB 610	24"	21.60	4.63%	289.00	290.00
CB 612	CB 611	24"	129.20	8.36%	290.20	301.00
CB 613	CB 612	24"	41.93	1.00%	301.28	301.70
CB 613A	CB 613	18"	48.73	0.60%	301.91	302.20
CB 613B	CB 613A	15"	34.30	0.70%	302.40	302.64
CB 614	CB 613	24"	41.52	10.00%	301.90	306.05
CB 615	CB 614	24"	45.78	9.94%	306.25	310.80
CB 615A	CB 615	18"	164.31	4.75%	311.00	318.80
CB 615B	CB 615A	15"	28.00	1.00%	319.00	319.28
CB 615C	CB 615A	15"	43.09	1.39%	319.00	319.60
CB 615D	CB 615C	15"	28.02	0.61%	319.80	319.97
CB 616	CB 615	24"	28.28	9.90%	311.00	313.80
CB 617	CB 616	24"	54.26	9.95%	314.00	319.40
CB 617A	CB 617	15"	34.00	10.00%	319.60	323.00
CB 618	CB 617	24"	118.07	6.27%	319.60	327.00
CB 618A	CB 618	15"	66.41	6.63%	327.20	331.60
CB 618B	CB 618A	15"	32.00	0.59%	331.80	331.99
CB 619	CB 618	18"	34.52	0.61%	327.20	327.41
CB 620	CB 619	18"	54.02	0.74%	327.60	328.00
CB 621	CB 620	18"	32.39	0.62%	328.20	328.40
CB 622	CB 621	18"	49.14	1.02%	328.60	329.10
CB 623	CB 622	18"	34.09	0.88%	329.30	329.60
CB 624	CB 623	15"	158.24	3.73%	329.80	335.70
CB 625	CB 624	15"	46.67	4.50%	335.90	338.00
CB 625A	CB 625	15"	28.00	1.00%	338.20	338.48
CB 626	CB 625	15"	224.01	2.72%	338.20	344.30
CB 627	CB 626	15"	43.82	0.91%	344.50	344.90
CB 628	CB 627	15"	92.62	1.25%	345.10	346.26
CB 628A	CB 628	15"	28.03	0.61%	346.50	346.67
CB 633	YI 632	15"	78.57	1.91%	301.20	302.70
CB 634	CB 633	15"	208.97	1.00%	302.90	305.00
YI 631	FES 630	18"	11.26	8.88%	289.00	290.00
YI 632	YI 631	15"	110.64	9.76%	290.20	301.00

STRM - SCM 7 - PIPE SUMMARY						
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 702A	JB 702	18"	78.08	0.50%	319.45	319.84
CB 703	JB 702	15"	39.05	2.38%	327.83	328.76
CB 703A	CB 703	15"	30.68	3.39%	328.96	330.00
CB 704	CB 703	15"	124.07	7.49%	328.96	338.25
CB 752	JB 751	24"	159.46	11.79%	325.20	344.00
JB 702	YI 701	24"	126.98	0.50%	318.27	318.90
JB 751	FES 750	24"	62.25	11.25%	318.00	325.00
YI 701	FES 700	24"	50.79	1.12%	317.50	318.07
YI 702B	CB 702A	15"	57.52	0.50%	320.11	320.40

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

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

PRELIMINARY

NORTH CAROLINA PROFESSIONAL ENGINEER 36528 JACOB P. KLEIN

PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:

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.

MERRITT RESERVE

SCHEDULE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

SCHEDULE

SHEET NO.:

G-010

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

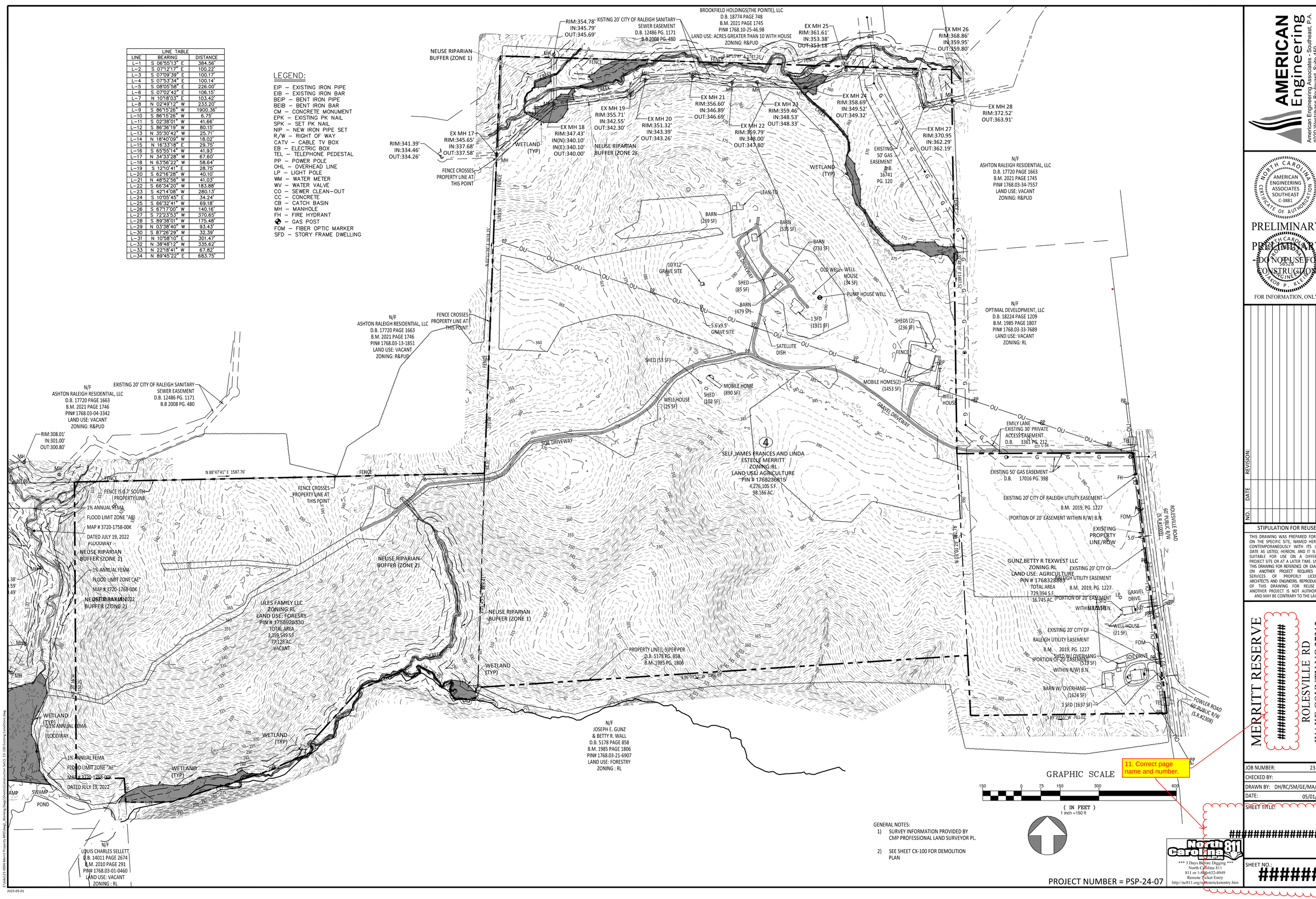
Z:\Jobs\23-0004 Merritt Property (BRS)\dwg_Working Dwgs\Sheets\Construction Set\4. G-004 General Notes and Schedule.dwg

2025-05-01

LINE TABLE		
LINE	BEARING	DISTANCE
L–1	S 06°55'13" E	384.56'
L–2	S 07°12'17" E	100.22'
L–3	S 07°09'39" E	100.17'
L–4	S 07°53'34" E	100.14'
L–5	S 08°05'58" E	226.00'
L–6	S 07°02'42" E	106.15'
L–7	N 10°18'03" E	103.42'
L–8	N 02°49'12" W	233.20'
L–9	S 86°15'26" W	1900.36'
L–10	S 86°15'26" W	6.75'
L–11	S 02°38'01" W	41.66'
L–12	S 86°36'19" W	80.15'
L–13	N 35°30'42" W	25.71'
L–14	N 18°40'09" W	18.02'
L–15	N 16°33'18" E	29.75'
L–16	S 65°55'14" W	41.93'
L–17	N 34°33'28" W	67.60'
L–18	N 63°56'22" W	58.64'
L–19	S 12°10'41" E	28.75'
L–20	S 62°16'28" W	40.10'
L–21	N 48°52'56" W	41.03'
L–22	S 66°34'20" W	183.88'
L–23	S 42°14'08" W	280.13'
L–24	S 10°05'45" E	34.24'
L–25	S 66°32'41" W	69.18'
L–26	S 67°17'00" W	140.16'
L–27	S 72°23'53" W	370.65'
L–28	S 89°38'01" W	175.48'
L–29	N 03°38'40" W	93.43'
L–30	S 87°26'29" W	32.39'
L–31	N 10°58'10" E	301.47'
L–32	N 38°48'12" W	335.62'
L–33	N 22°18'41" W	67.82'
L–34	N 89°45'22" E	683.75'

LEGEND:

EIP – EXISTING IRON PIPE
EIB – EXISTING IRON BAR
BEIP – BENT IRON PIPE
BEIB – BENT IRON BAR
CM – CONCRETE MONUMENT
EPK – EXISTING PK NAIL
SPK – SET PK NAIL
NIP – NEW IRON PIPE SET
R/W – RIGHT OF WAY
CATV – CABLE TV BOX
EB – ELECTRIC BOX
TEL – TELEPHONE PEDESTAL
PP – POWER POLE
OHL – OVERHEAD LINE
LP – LIGHT POLE
WM – WATER METER
WV – WATER VALVE
CO – SEWER CLEAN–OUT
CC – CONCRETE
CB – CATCH BASIN
MH – MANHOLE
FH – FIRE HYDRANT
GP – GAS POST
FOM – FIBER OPTIC MARKER
SFD – STORY FRAME DWELLING



GRAPHIC SCALE
150 0 75 150 300 600
(IN FEET)
1 inch = 150 ft

GENERAL NOTES:
1) SURVEY INFORMATION PROVIDED BY CMP PROFESSIONAL LAND SURVEYOR PL.
2) SEE SHEET CX-100 FOR DEMOLITION PLAN

11. Correct page name and number.

PROJECT NUMBER = PSP-24-07

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-3861 CERTIFICATE OF AUTHORIZATION

PRELIMINARY
PRELIMINARY
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA 36528 ENGINEER JAKOB P. KLEIN
FOR INFORMATION, ONLY

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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MERRITT RESERVE
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025
SHEET TITLE:	
	##################
SHEET NO.:	######

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

Z:\Jobs\23-0004 Merrit Property BRD\dwg_Working Dwg\Sheets\Construction Sets_CX-100 Existing Conditions.dwg
2025-05-01

POTABLE WATER SUPPLY WELL DECOMMISSIONING/ABANDONMENT SPECIFICATIONS

ONE OR MORE POTABLE WATER SUPPLY WELLS HAVE BEEN IDENTIFIED ON THE PROPERTY LOCATED NEAR THE RESIDENCES. THE CONTRACTOR SHALL CONFIRM THE WELL SPECIFICATIONS, AND ABANDON THE WELLS IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF NORTH CAROLINA, WAKE COUNTY, AND THE REQUIREMENTS OF THESE SPECIFICATIONS. ONLY A CERTIFIED WELL CONTRACTOR REGISTERED WITH WAKE COUNTY AND THE STATE OF NORTH CAROLINA MAY ABANDON THE WELL.

THE CONTRACTOR SHALL COMPLETE AND SUBMIT A WAKE COUNTY APPLICATION FOR WELL REPAIR /ABANDONMENT PERMIT TO THE WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES (WCDES). PRIOR TO THE PERMANENT ABANDONMENT PROCEDURES, THE CERTIFIED CONTRACTOR ABANDONING THE WELL SHALL PROVIDE A MINIMUM OF 24-HOURS ADVANCE NOTICE TO THE WCDES, ENVIRONMENTAL HEALTH DIVISION, AND RECEIVE APPROVAL AND A WAKE COUNTY PERMIT NUMBER.

THE CONTRACTOR SHALL CONFIRM THAT THE WELL SYSTEM HAS BEEN DE-ENERGIZED PRIOR TO ANY DEMOLITION ACTIVITIES. WELL DECOMMISSIONING/ ABANDONMENT INCLUDES THE REMOVAL OF THE WELL HOUSE, SUPPLY LINES AND ALL MATERIALS LEFT IN THE BOREHOLE/WELL. THE TOP FIVE FEET SHALL BE BACKFILLED WITH MATERIAL APPROPRIATE FOR THE INTENDED LAND USE. THE WELL SHALL BE ABANDONED IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES,DIVISION OF WATER QUALITY, REGULATIONS FOR ABANDONMENT OF WELLS (15A NCAC 02C .0113 ABANDONMENT OF WELLS) AND AS DESCRIBED HEREIN.

THE PERMANENT ABANDONMENT OF THE WATER SUPPLY WELLS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING PROCEDURES:

1. ALL CASING AND SCREEN MATERIALS MAY BE REMOVED PRIOR TO INITIATION OF ABANDONMENT PROCEDURES, IF SUCH REMOVAL WILL NOT CAUSE OR CONTRIBUTE TO CONTAMINATION OF THE GROUNDWATERS. ANY CASING NOT GROUTED IN ACCORDANCE WITH 15A NCAC 02C .0107(F) SHALL BE REMOVED OR GROUTED IN ACCORDANCE WITH 15A NCAC 02C .0107(F).
2. THE ENTIRE DEPTH OF THE WELL SHALL BE SOUNDED BEFORE IT IS SEALED TO ENSURE FREEDOM FROM OBSTRUCTIONS THAT MAY INTERFERE WITH SEALING OPERATIONS.
3. THE WELL SHALL BE DISINFECTED IN ACCORDANCE WITH RULE .0111(B)(1)(A) THROUGH .0111(B)(1)(C) OF THIS SECTION.
4. IN THE CASE OF GRAVEL-PACKED WELLS IN WHICH THE CASING AND SCREENS HAVE NOT BEEN REMOVED, NEAT-CEMENT OR BENTONITE SLURRY GROUT SHALL BE INJECTED INTO THE WELL COMPLETELY FILLING IT FROM THE BOTTOM OF THE CASING TO THE TOP.
5. WELLS CONSTRUCTED IN UNCONSOLIDATED FORMATIONS SHALL BE COMPLETELY FILLED WITH GROUT BY INTRODUCING IT THROUGH A PIPE EXTENDING TO THE BOTTOM OF THE WELL WHICH CAN BE RAISED AS THE WELL IS FILLED.
6. WELLS CONSTRUCTED IN CONSOLIDATED ROCK FORMATIONS OR THAT PENETRATE ZONES OF CONSOLIDATED ROCK MAY BE FILLED WITH GROUT, SAND, GRAVEL OR DRILL CUTTINGS OPPOSITE THE ZONES OF CONSOLIDATED ROCK. THE TOP OF ANY SAND, GRAVEL OR CUTTING FILL SHALL TERMINATE AT LEAST 10 FEET BELOW THE TOP OF THE CONSOLIDATED ROCK OR FIVE FEET BELOW THE BOTTOM OF CASING IN A MANNER TO ENSURE COMPLETE FILLING OF THE CASING, AND EXTEND UP TO LAND SURFACE. FOR ANY WELL IN WHICH THE DEPTH OF CASING OR THE DEPTH OF THE BEDROCK IS NOT KNOWN OR CANNOT BE CONFIRMED, THE ENTIRE LENGTH OF THE WELL SHALL BE FILLED WITH GROUT UP TO LAND SURFACE.

THE CERTIFIED WELL CONTRACTOR SHALL COMPLETE A NCDENR FORM GW-30 WELL ABANDONMENT RECORD. THE CONTRACTOR SHALL SUBMIT A COPY TO THE OWNER, AND THE ORIGINAL SHALL BE SUBMITTED TO THE DIVISION OF WATER QUALITY WITHIN 30 DAYS OF COMPLETION AT THE FOLLOWING ADDRESS.

NCDENR, DIVISION OF WATER QUALITY
ATTN:INFORMATION MANAGEMENT
1617 MAIL SERVICE CENTER
RALEIGH, NC 27699-1617

SUBMIT THE FOLLOWING DOCUMENTATION TO AMERICAN ENGINEERING WITHIN TWO-WEEKS FOLLOWING THE COMPLETION OF THE WELL ABANDONMENT:

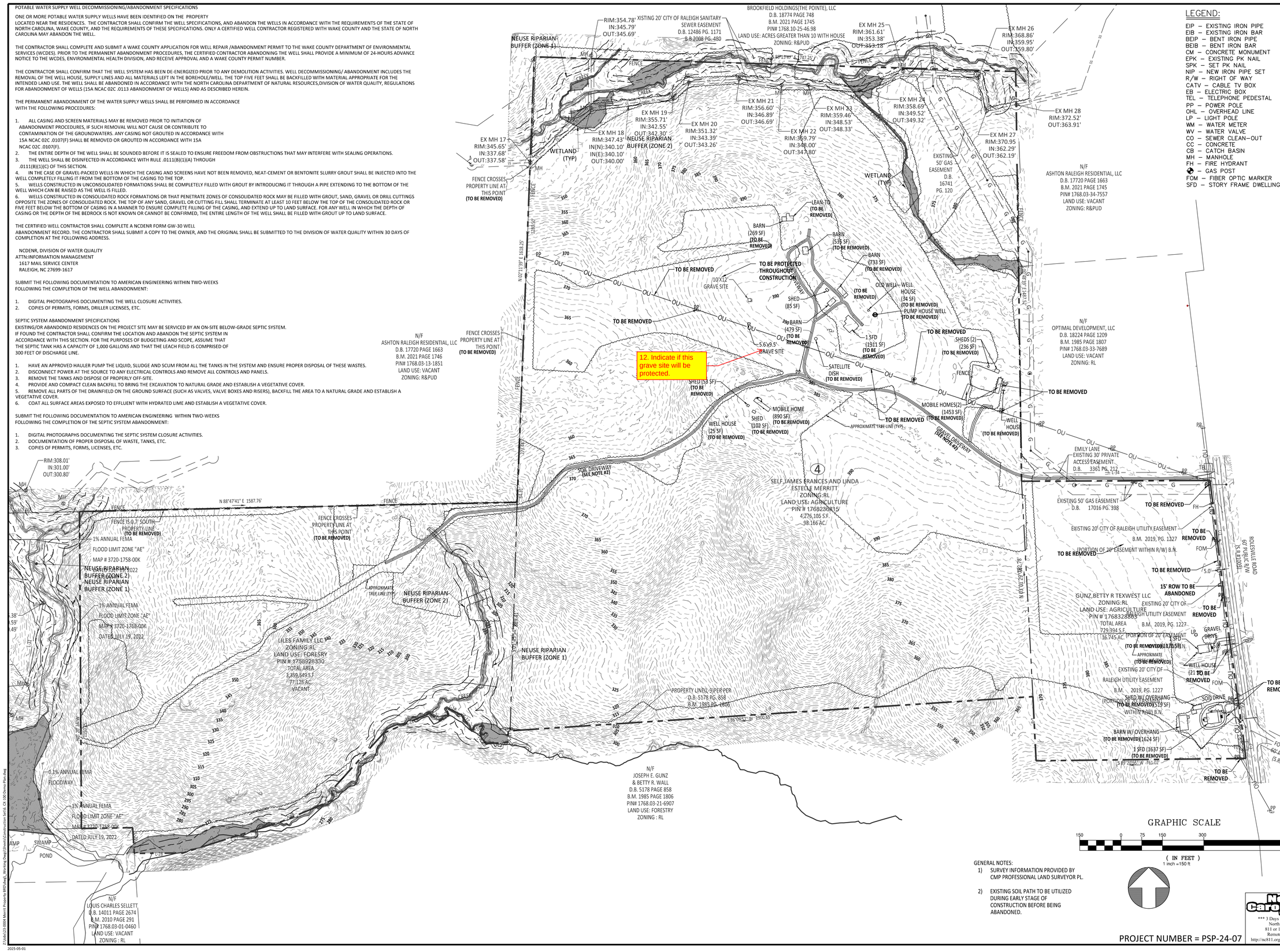
1. DIGITAL PHOTOGRAPHS DOCUMENTING THE WELL CLOSURE ACTIVITIES.
2. COPIES OF PERMITS, FORMS, DRILLER LICENSES, ETC.

SEPTIC SYSTEM ABANDONMENT SPECIFICATIONS
EXISTING/OR ABANDONED RESIDENCES ON THE PROJECT SITE MAY BE SERVICED BY AN ON-SITE BELOW-GRADE SEPTIC SYSTEM. IF FOUND THE CONTRACTOR SHALL CONFIRM THE LOCATION AND ABANDON THE SEPTIC SYSTEM IN ACCORDANCE WITH THIS SECTION. FOR THE PURPOSES OF BUDGETING AND SCOPE, ASSUME THAT THE SEPTIC TANK HAS A CAPACITY OF 1,000 GALLONS AND THAT THE LEACH FIELD IS COMPRISED OF 300 FEET OF DISCHARGE LINE.

1. HAVE AN APPROVED HAULER PUMP THE LIQUID, SLUDGE AND SCUM FROM ALL THE TANKS IN THE SYSTEM AND ENSURE PROPER DISPOSAL OF THESE WASTES.
2. DISCONNECT POWER AT THE SOURCE TO ANY ELECTRICAL CONTROLS AND REMOVE ALL CONTROLS AND PANELS.
3. REMOVE THE TANKS AND DISPOSE OF PROPERLY OFF-SITE.
4. PROVIDE AND COMPACT CLEAN BACKFILL TO BRING THE EXCAVATION TO NATURAL GRADE AND ESTABLISH A VEGETATIVE COVER.
5. REMOVE ALL PARTS OF THE DRAINFIELD ON THE GROUND SURFACE (SUCH AS VALVES, VALVE BOXES AND RISERS), BACKFILL THE AREA TO A NATURAL GRADE AND ESTABLISH A VEGETATIVE COVER.
6. COAT ALL SURFACE AREAS EXPOSED TO EFFLUENT WITH HYDRATED LIME AND ESTABLISH A VEGETATIVE COVER.

SUBMIT THE FOLLOWING DOCUMENTATION TO AMERICAN ENGINEERING WITHIN TWO-WEEKS FOLLOWING THE COMPLETION OF THE SEPTIC SYSTEM ABANDONMENT:

1. DIGITAL PHOTOGRAPHS DOCUMENTING THE SEPTIC SYSTEM CLOSURE ACTIVITIES.
2. DOCUMENTATION OF PROPER DISPOSAL OF WASTE, TANKS, ETC.
3. COPIES OF PERMITS, FORMS, LICENSES, ETC.



GRAPHIC SCALE

150 0 75 150 300 600

(IN FEET)
1 inch =150 ft

GENERAL NOTES:
1) SURVEY INFORMATION PROVIDED BY CMP PROFESSIONAL LAND SURVEYOR PL.
2) EXISTING SOIL PATH TO BE UTILIZED DURING EARLY STAGE OF CONSTRUCTION BEFORE BEING ABANDONED.

PROJECT NUMBER = PSP-24-07

LEGEND:

EIP – EXISTING IRON PIPE
EIB – EXISTING IRON BAR
BEIP – BENT IRON PIPE
BEIB – BENT IRON BAR
CM – CONCRETE MONUMENT
EPK – EXISTING PK NAIL
SPK – SET PK NAIL
NIP – NEW IRON PIPE SET
R/W – RIGHT OF WAY
CATV – CABLE TV BOX
EB – ELECTRIC BOX
TEL – TELEPHONE PEDESTAL
PP – POWER POLE
OHL – OVERHEAD LINE
LP – LIGHT POLE
WM – WATER METER
WV – WATER VALVE
CO – SEWER CLEAN–OUT
CC – CONCRETE
CB – CATCH BASIN
MH – MANHOLE
FH – FIRE HYDRANT
GP – GAS POST
FOM – FIBER OPTIC MARKER
SFD – STORY FRAME DWELLING

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C-3881
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PRELIMINARY
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36528
ENGINEER
TAYLOR P. KLEIN

FOR INFORMATION, ONLY

NO.	DATE	REVISION:

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MERRITT RESERVE
DEMOLITION PLAN
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

DEMOLITION PLAN

SHEET NO.:

CX-100

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

Z:\Jobs\23-0004 Merritt Property BRP\dwg_Working Dwgs\5Sheet\Construction Set\6_CX-100 Demo Plan.dwg
2025-05-01

EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

13. Add the gray hatching tot he site legend.

14. Add contour labels throughout EC plan sheets to help plan reviewers follow flow patterns. Applicable all EC sheets.

15. Please confirm if there is any grading for roadways being completed in Phase 1 Stage 1.

SITE KEYMAP

SHEET 102

SHEET 101

SHEET 103

SCM 1A

SCM 1B

SCM 1C

SCM 4

TSB 1

TSB 2

GRAPHIC SCALE

150 0 75 150 300 600

(IN FEET)

1 inch = 150 ft

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36528 ENGINEER JAKOB P. KLEE

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MERRITT RESERVE

EROSION CONTROL PHASE 1 STAGE 1 OVERALL

ROLESVILLE RD

WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

EROSION CONTROL PHASE 1 STAGE 1 OVERALL

SHEET NO.:

CE-100

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\23-0004 Merritt Property (BRI)\Revit_Working Dwgs\Sheets\Construction Set\7 CE-100 Erosion Control Overall Plan.dwg

2025-05-01

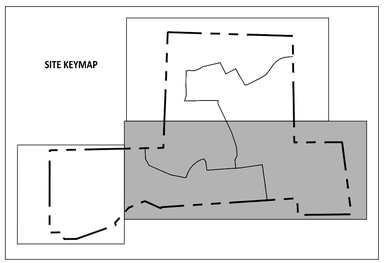
SEE SHEET CE-102

SEE SHEET CE-103

SEE SHEET CE-105

TDD 2.1
CHECK DAM, TYP
SLOPE DRAIN
BAFFLES SPACED EVENLY, TYP
TSB 2
SKIMMER SIZE: 3"
ORIFICE SIZE: 2.25"
EMERGENCY SPILLWAY
4' X 4' RISER STRUCTURE
20' X 20' BASIN MAINTENANCE PAD W/DEWATERING BAG
RIP-RAP PAD
SILT FENCE OUTLET, TYP
STAGING AND LAYDOWN AREA
STOCKPILING AREA
TF/SF TO ACT AS LIMITS OF DISTURBANCE
SILT FENCE OUTLET, TYP
WATTLE, TYP
TDD 4.1
CHECK DAM
SLOPE DRAIN
CB 401
BAFFLES SPACED EVENLY, TYP
SCM 4
OS-4
TDD 4.2
CHECK DAM, TYP
SLOPE DRAIN
WATTLE, TYP
TDD 1.3
SKIMMER SIZE: 2"
ORIFICE SIZE: 1.75"
GRAVEL INLET PROTECTION, TYP
20' X 20' BASIN MAINTENANCE PAD W/DEWATERING BAG
TF/SF TO ACT AS LIMITS OF DISTURBANCE
SILT FENCE OUTLET, TYP
TEMP. RIP-RAP PAD
SILT FENCE OUTLET, TYP
EMERGENCY SPILLWAY
GRAVEL INLET PROTECTION, TYP
FES-OS-4
TIE TSB 1 OUTFALL TO PROPOSED STORM NETWORK
EXISTING 30' PRIVATE ACCESS EASEMENT D.B. 3361 PG. 212
EXISTING 50' GAS EASEMENT D.B. 17016 PG. 398
CONCRETE WASHOUT
CONSTRUCTION ENTRANCE
RECORD BOX
WATTLE, TYP
SILT FENCE OUTLET, TYP
TDD 1.4
RE-ROUTE EXISTING SWALE INTO BASIN
CHECK DAM, TYP
SLOPE DRAIN
TSB 1
CHECK DAM, TYP
SLOPE DRAIN
20' X 20' BASIN MAINTENANCE PAD W/DEWATERING BAG
BAFFLES SPACED EVENLY, TYP
4' X 4' RISER STRUCTURE
SKIMMER SIZE: 3"
ORIFICE SIZE: 2.25"
EMERGENCY SPILLWAY
RECORD BOX
CONSTRUCTION ENTRANCE
CONCRETE WASHOUT
JOSEPHE GUNZ

SITE KEYMAP



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502

16. This does not match the pipe symbology on the plan view.

17. Missing line; remove if not relevant

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

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

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
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JAKOB P. KLEIN

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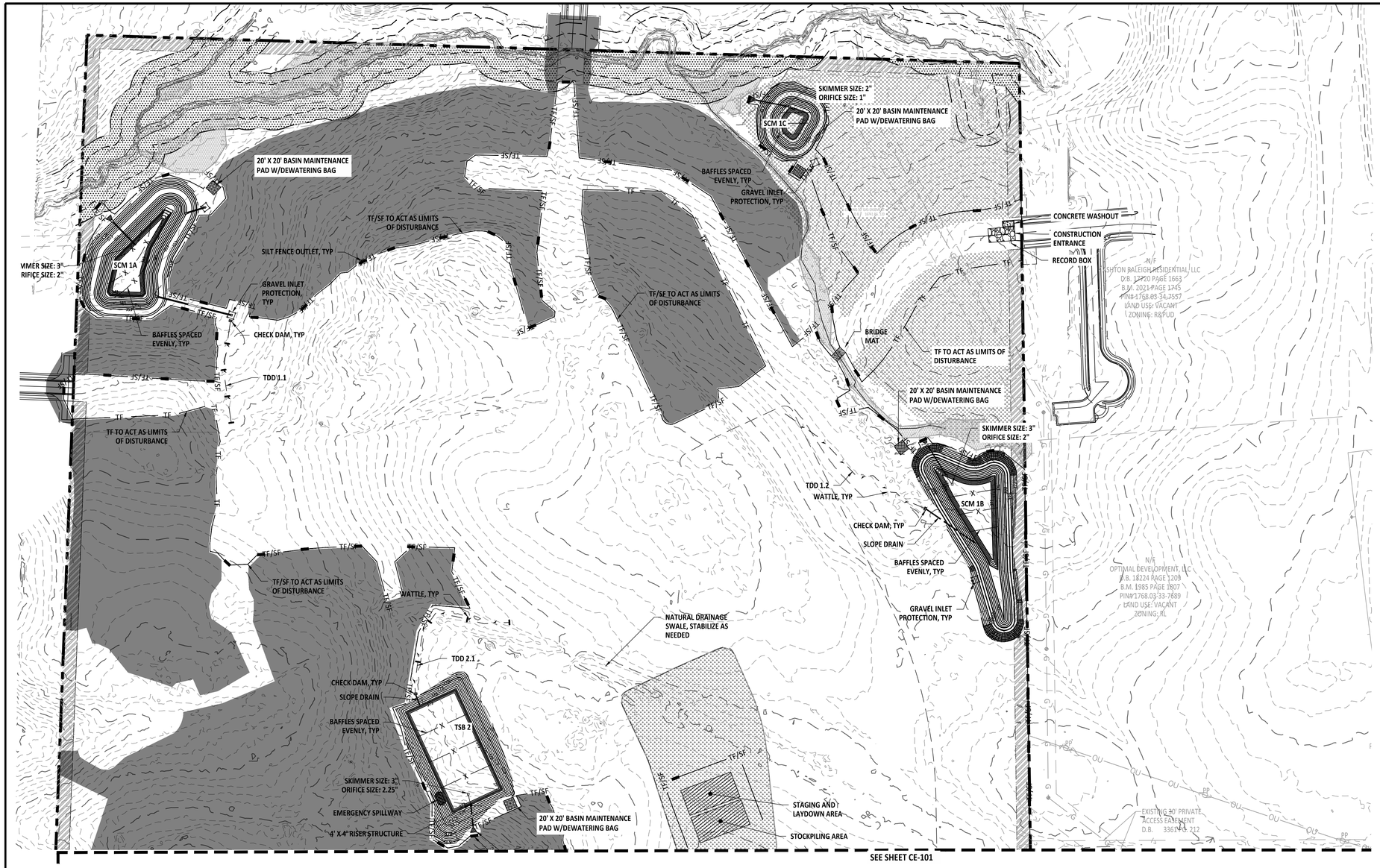
MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 1
ROLESVILLE RD
WAKE COUNTY NC 27312

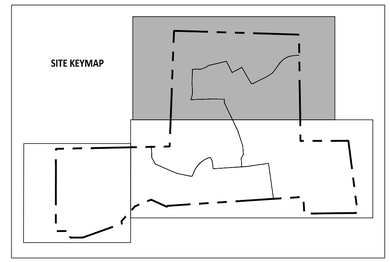
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 1

SHEET NO.:
CE 101

Z:\Jobs\23-0004 Merritt Property @Rlr\Dwg_Working Dwgs\Sheets\Construction Set\E CE 101-103 Erosion Control (100 Scale).dwg
2025-05-01





EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)

1 inch = 100ft

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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MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 1
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 1

SHEET NO.:
CE-102

Z:\Jobs\23-0004 Merritt Property @RP\Dwgs_Working Dwgs\Sheets\Construction Set\CE 101-103 Erosion Control (100 Scale).dwg

2025-05-01



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

19. The vicinity map is missing from this sheet.

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100ft

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NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

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MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 1
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 1

SHEET NO.:
CE-103

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

EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

20. Linework shown in the grey area. Please correct.

14. Add existing and proposed contour labels throughout EC plan sheets to help plan reviewers follow flow patterns. Applicable all EC sheets.

21. Please confirm if curb and gutter will be installed at this point, along with the utilities.

If infrastructure is to be installed, is a staging area needed?

SCM 1A
SCM 1B
SCM 1C
SCM 2
TSB 3
SCM 4

SITE KEYMAP

SHEET 114 | SHEET 113
SHEET 115 | SHEET 112
SHEET 118 | SHEET 117 | SHEET 116 | SHEET 111

GRAPHIC SCALE
150 0 75 150 300 600
IN. FEET
1 inch = 150 ft

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NORTH CAROLINA 36528 ENGINEER JAKOB P. KLEIN

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MERRITT RESERVE

EROSION CONTROL PHASE 1 STAGE 2 OVERALL

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 2 OVERALL

SHEET NO.:
CE-110

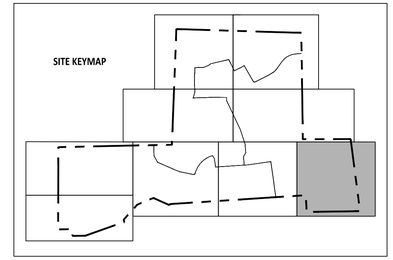
North Carolina 811
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North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merritt Property BRP\Revit_ Working Dwgs\Sheets\Construction Set\9 CE -110 Erosion Control Overall Plan.dwg

2025-05-01



SITE KEYMAP



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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NO.	DATE	REVISION:

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MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 2
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 2

SHEET NO.:
CE-111

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\23-0004 Merrit Property (BRT)\Dwg_Working Dwgs\Sheets\Construction Set\CE-111-1114 Erosion Control (50 Scale).dwg
2025-05-01

SEE SHEET CE-114

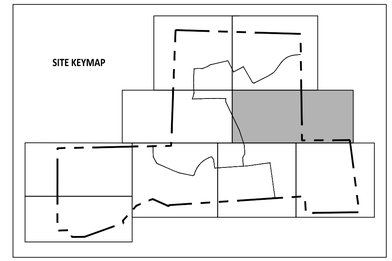
SEE SHEET CE-113

SEE SHEET CE-115

SEE SHEET CE-116

SEE SHEET CE-111





EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

AMERICAN Engineering

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

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

PRELIMINARY

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

FOR INFORMATION, ONLY

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MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 2
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 2

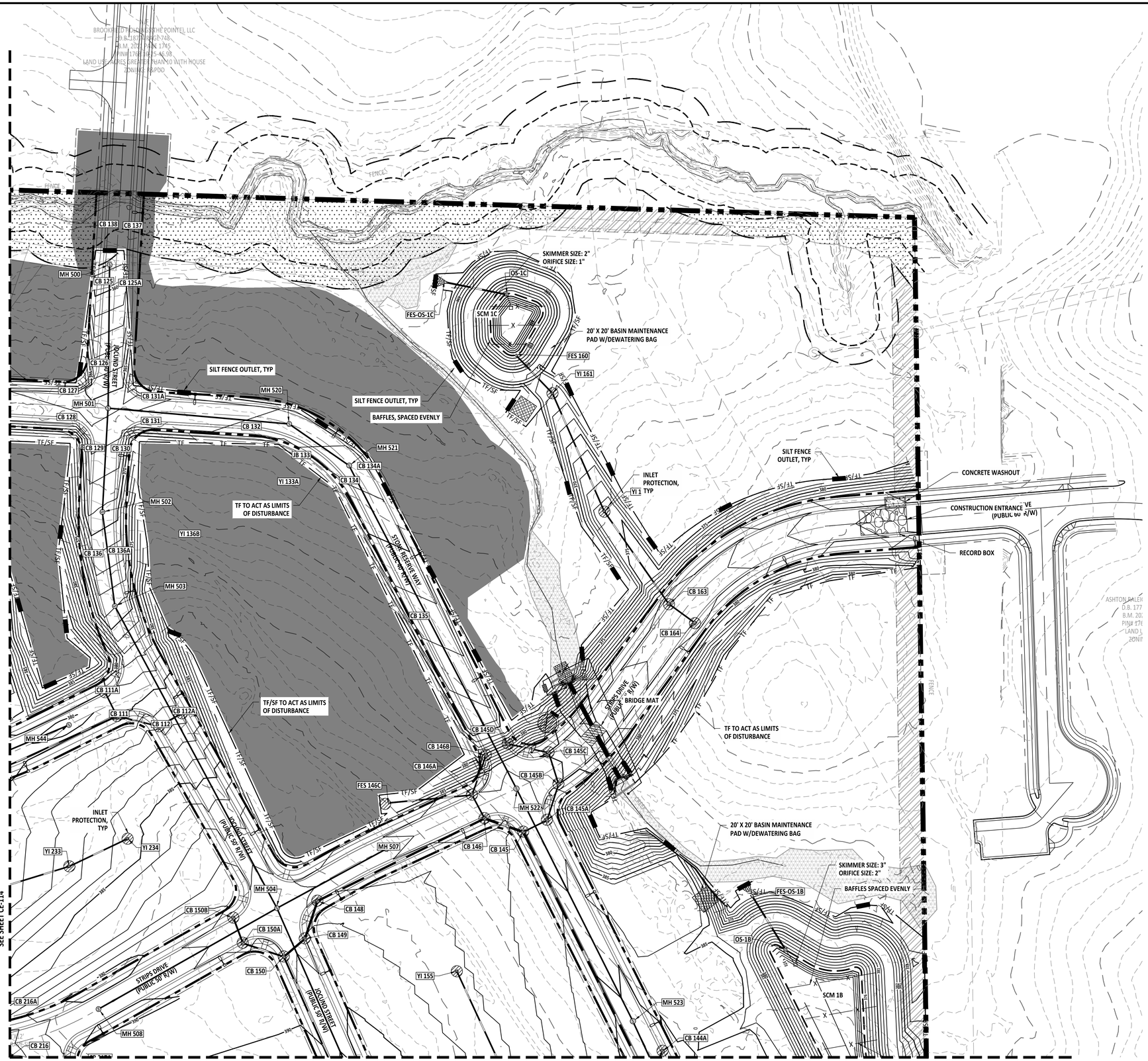
SHEET NO.:
CE-112

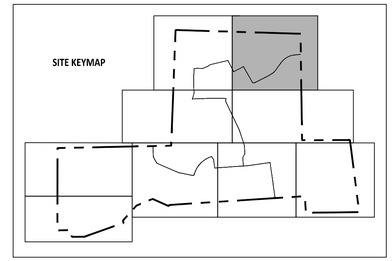
North Carolina 811 811

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

Z:\Jobs\23-0004 Merritt Property @RDPave_Working Dwgs\Sheets\Construction Set\10. CE 111-114 Erosion Control (50 Scale).dwg

2025-05-01





EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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ENGINEER
JAKOB P. KLEIN

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MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 2
ROLESVILLE RD
WAKE COUNTY NC 27312

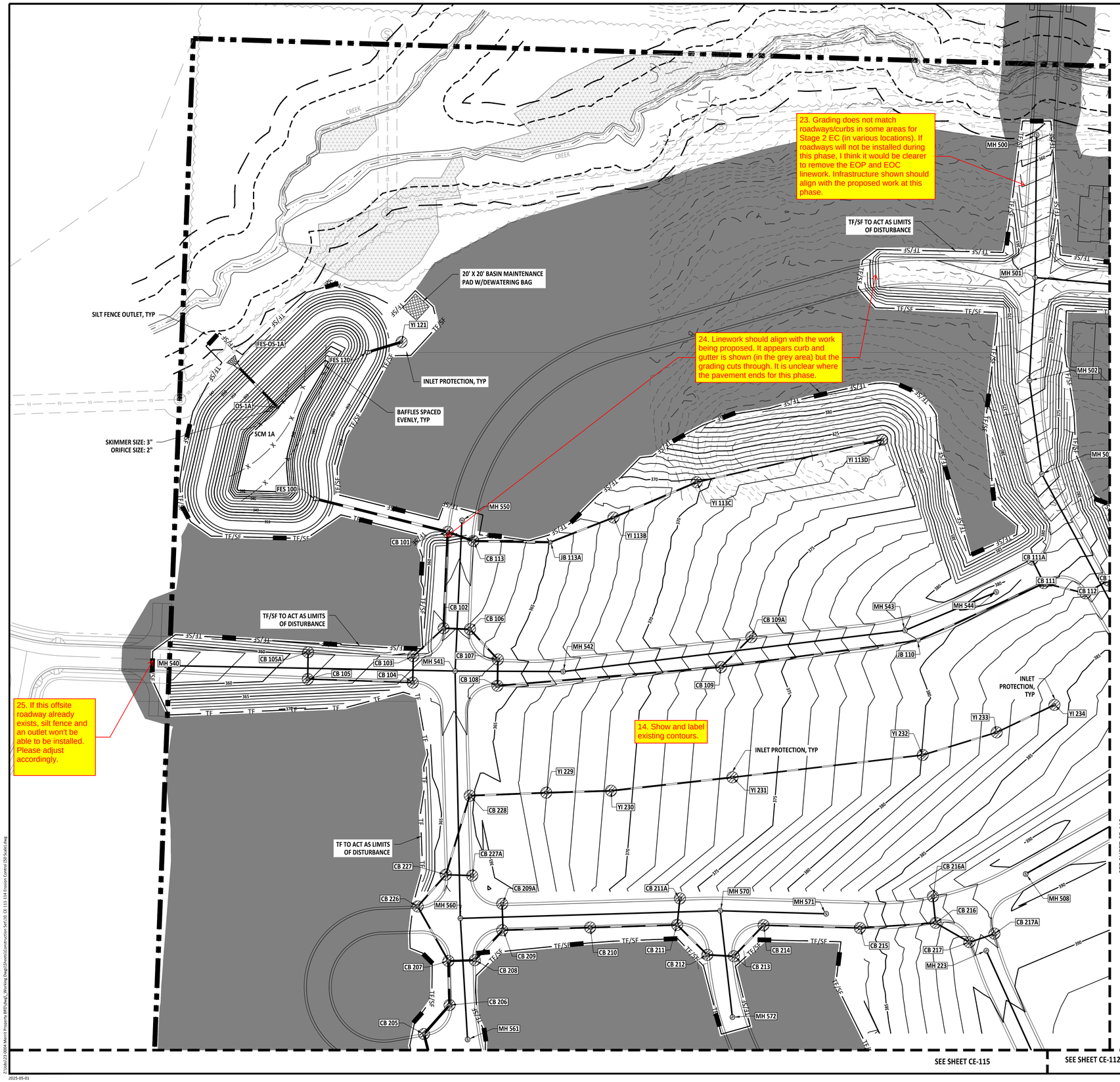
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 2

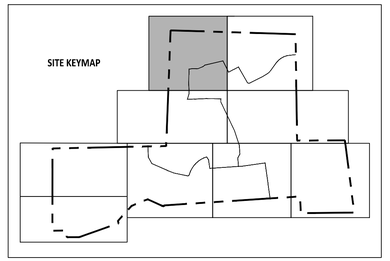
SHEET NO.:
CE-113

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

Z:\Jobs\23-0004 Merritt Property @RR\Revit_Working Dwgs\Sheets\Construction Set\03. CE 111-114 Erosion Control (SD-Scale).dwg
2025-05-01



SITE KEYMAP



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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Raleigh, NC 27607
919-469-1101

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MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 2
ROLESVILLE RD
WAKE COUNTY NC 27312

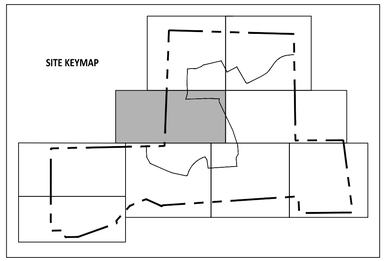
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 2

SHEET NO.:
CE-114

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

Z:\Jobs\23-0004 Merrit Property (BRD)\Dwg_Working Dwgs\Sheets\Construction Set\15. CE-113-114 Erosion Control (SS Split).dwg
2025-05-01



SEE SHEET CE-114

TF TO ACT AS LIMITS OF DISTURBANCE

26. Trim proposed contours to tie into existing contours.

24. Linework should align with the work being proposed. It appears curb and gutter is shown (in the grey area) but the grading cuts through. It is unclear where the pavement ends for this phase.

INLET PROTECTION, TYP

INLET PROTECTION, TYP

TF/SF TO ACT AS LIMITS OF DISTURBANCE

20' X 20' BASIN MAINTENANCE PAD W/DEWATERING BAG

SILT FENCE OUTLET, TYP

SILT FENCE OUTLET, TYP

SCM 2

BAFFLES SPACED EVENLY, TYP

SKIMMER SIZE: 3"
ORIFICE SIZE: 2.25"

N/F
ASHTON RALEIGH RESIDENTIAL, LLC
D.B. 17720 PAGE 1663
B.M. 2021 PAGE 1746
PIN# 1768.03-13-1851
LAND USE: VACANT
ZONING: R&PUD

CB 227A, CB 227, CB 226, CB 209A, CB 211A, CB 216A, CB 217, CB 216, CB 215, CB 214, CB 213, CB 212, CB 211, CB 210, CB 209, CB 208, CB 207, CB 206, CB 205, CB 204, CB 203, CB 202, MH 560, MH 570, MH 571, MH 572, MH 561, MH 223, YI 201, FES 240, FES 250, FES 200, FES-OS-2, OS-2

SEE SHEET CE-112

SEE SHEET CE-117

SEE SHEET CE-116

EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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Raleigh, NC 27607
919-469-1101

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ENGINEER
JACOB P. KLEIN

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MERRITT RESERVE
EROSION CONTROL
PHASE 1
STAGE 2
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 2

SHEET NO.:
CE-115

North Carolina 811 811

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

Z:\Job\23-0004 Merrit Property @RDU\dwg_Working Dwgs\Streets\Construction Set\11. CE-115-118 Erosion Control (50 Scale).dwg

2025-05-01

SEE SHEET CE-115

SEE SHEET CE-114

SEE SHEET CE-117

SEE SHEET CE-111

TEMPORARY STRUCTURE TO COLLECT WATER FROM LOW POINT

SILT FENCE OUTLET, TYP

Temp. FES 10

TEMPORARY CROSSING PIPE

MH 193

Temp. FES 11

EMERGENCY SPILLWAY

4' X 4' RISER STRUCTURE

SILT FENCE OUTLET, TYP

RIP-RAP PAD

TSB 3

SKIMMER SIZE: 3"
ORIFICE SIZE: 2"

INLET PROTECTION, TYP

TIE SLOPE DRAIN TO CATCH BASIN TO OUTLET INTO SEDIMENT BASIN

SLOPE DRAIN

27. Slopes at 2:1 or steeper should have blanket. Please ensure all notes clarify this intent.

28. Review the grading. This is not the final roadway grade.

BAFFLES SPACED EVENLY, TYP

TF/SF TO ACT AS LIMITS OF DISTURBANCE

DAYLIGHT PROPOSED PIPE AND OUTLET THROUGH SILT FENCE

MH 220, MH 194, MH 195, MH 196, MH 197, MH 236, MH 232, MH 231, MH 230, MH 128, MH 127, MH 126, MH 125, MH 124

CB 529, CB 528A, CB 528, CB 527, CB 526, CB 525A, CB 525, CB 414, CB 415, CB 416, CB 417, CB 418, CB 413, CB 412, CB 411, CB 410, CB 409, CB 408, CB 407, CB 406, CB 405, CB 404, CB 403, CB 402, CB 401, CB 422D, CB 422E, CB 422C, CB 422A, CB 422, CB 421, CB 420, CB 419, CB 407A, CB 433, CB 433A, CB 432, CB 431, CB 430, CB 436A, CB 436, CB 435, CB 434, CB 567, CB 568, CB 569

YI 519E, YI 404A, YI

FES 400

SCM 4

SKIMMER SIZE: 4"
ORIFICE SIZE: 2.5"

20' X 20' BASIN MAINTENANCE PAD W/DEWATERING BAG

EMERGENCY SPILLWAY

SILT FENCE OUTLET, TYP

PROPERTY LINE(L-9)PER PER
D.B. 5178 PG. 858
B.M. 1985 PG. 1806

SITE KEYMAP

EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

*** 3 Days Before Digging ***
North Carolina 811
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Remote Ticket Entry
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PRELIMINARY

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 36528 JAKOB P. KLEIN

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MERRITT RESERVE
EROSION CONTROL
PHASE 1
STAGE 2
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 2

SHEET NO.:
CE-116

Z:\Jobs\23-0004 Merritt Property (BP)\Dwg_Working Dwgs\Sheets\Construction Set\111_CE-115 118 Erosion Control (50 Scale).dwg

2025-05-01

SEE SHEET CE-115

SEE SHEET CE-116

SEE SHEET CE-118

COMMERCIAL/RETAIL
4.27 AC

BRIDGE MAT FOR
STREAM CROSSING

SILT FENCE OUTLET, TYP

TF/SF TO ACT AS LIMITS
OF DISTURBANCE

TEMPORARY
PIPE CROSSING

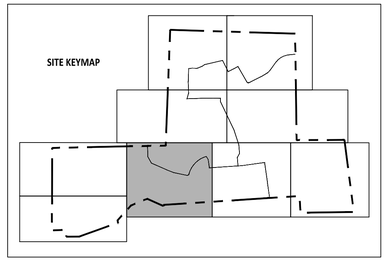
SILT FENCE

MH 113
MH 115
MH 116
MH 118
MH 119
MH 120
MH 121
MH 122
MH 123
MH 190
MH 191
MH 192
MH 193

Temp. FES 11
Temp. FES 20
Temp. FES 21
EMERG
4' X 4' RI

24.Street linework should align with the work being proposed. It is unclear where the pavement ends for this phase. Please clarify the intent of the grading within this Stage and what will be installed

SITE KEYMAP



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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NO.	DATE	REVISION:

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MERRITT RESERVE
EROSION CONTROL
PHASE 1
STAGE 2
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

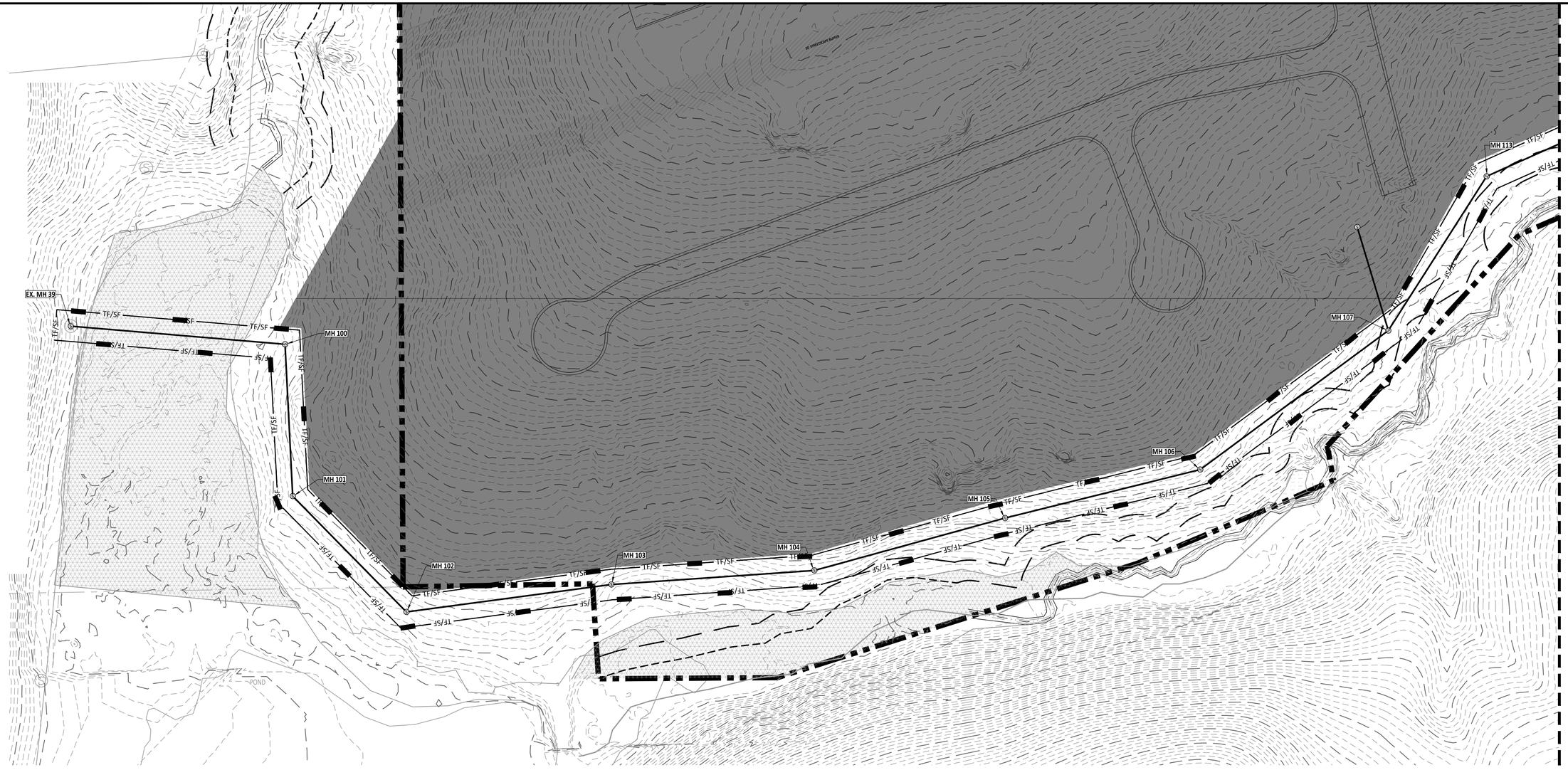
SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 2

SHEET NO.:
CE-117

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\23-0004 Mount Property (RFP)\Arch_Working Dwgs\Sheets\Construction Set\11. CE-115 118 Erosion Control (SO Scale).dwg

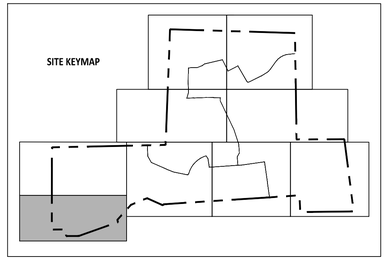
2025-05-01



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

SITE KEYMAP



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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

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

PRELIMINARY

NORTH CAROLINA
REGISTERED
36528
ENGINEER
JAKOB P. KLEIN

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MERRITT RESERVE
EROSION CONTROL
PHASE 1
STAGE 2
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 2

SHEET NO.:
CE-118

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

Z:\Jobs\23-0004 Merrit Property (BRP)\Dwg_Working Dwgs\Sheets\Construction Set\11. CE-115-118 Erosion Control (DS Scale).dwg

2025-05-01

EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

SITE KEYMAP

SHEET 124 | SHEET 123 | SHEET 125 | SHEET 122 | SHEET 128 | SHEET 127 | SHEET 126 | SHEET 121

PHASE II EROSION CONTROL DEVELOPMENT

PHASE II EROSION CONTROL DEVELOPMENT

PHASE II EROSION CONTROL DEVELOPMENT

SCM 1

SCM 2

SCM 3

SCM 4

SCM 5A

SCM 5B

SCM 5C

SCM 6A

SCM 6B

SCM 7

COMMERCIAL/RETAIL 4.27 AC

COMMERCIAL/RETAIL 3.29 AC

29. Consider wipeouts/backgrounds so this is more legible.

29. Text is very small and hard to read without zooming in on the computer. Will this be legible in the field?

30. This phase line (?) appears to just end.

GRAPHIC SCALE

150 0 75 150 300 600

(IN FEET)

1 inch = 150 ft

North 811 Carolina

*** 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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PRELIMINARY

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NORTH CAROLINA 36528 ENGINEER JAKOB P. KLEIN

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NO.	DATE	REVISION:

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MERRITT RESERVE

EROSION CONTROL PHASE 1 STAGE 3 OVERALL

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE: EROSION CONTROL PHASE 1 STAGE 3 OVERALL

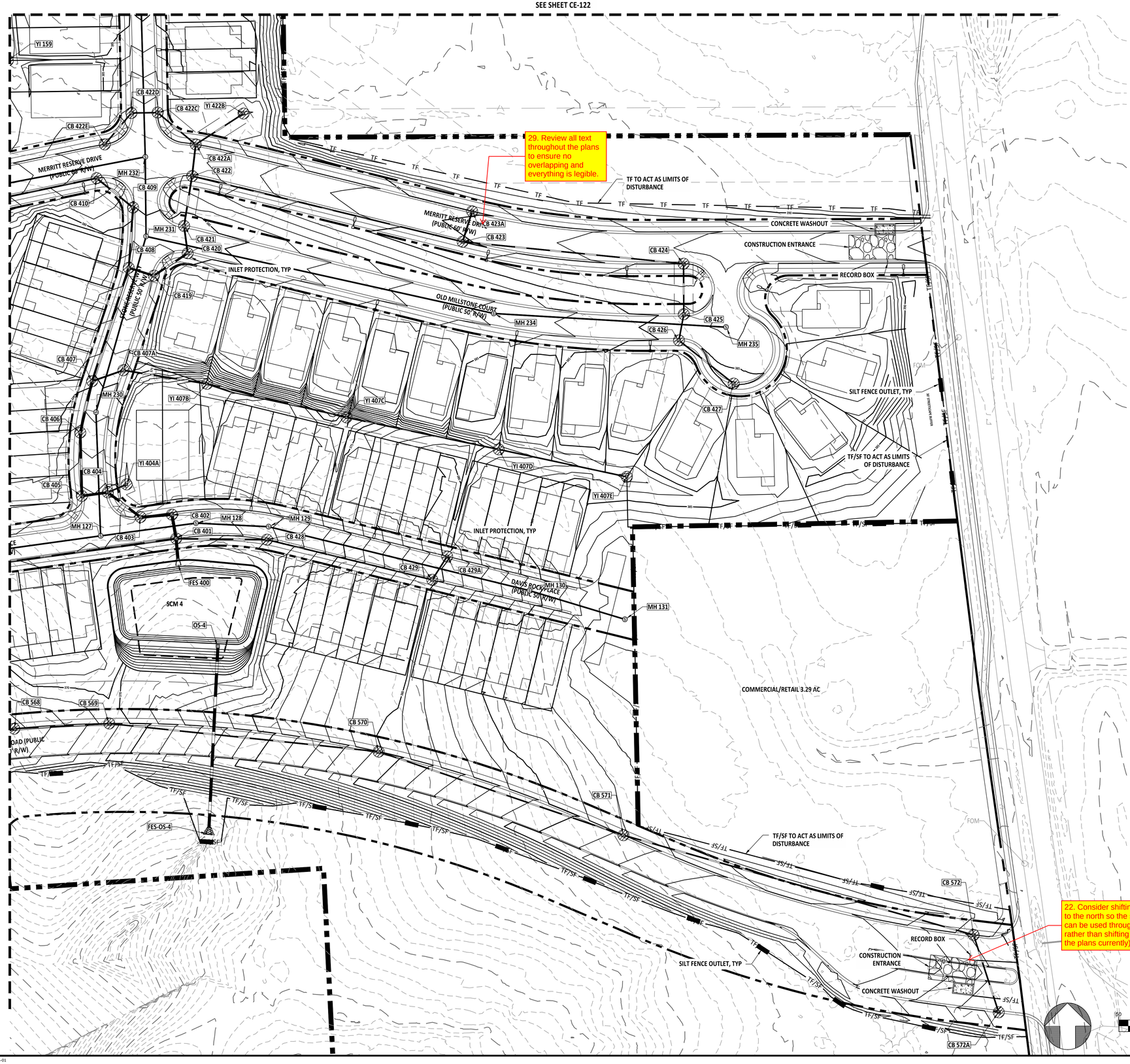
SHEET NO.: CE-120

Z:\Jobs\23-0004 Merritt Property BRP\dwg_Working Dwgs\Sheets\Construction Set\12. CE-120 Erosion Control (95 Scale).dwg

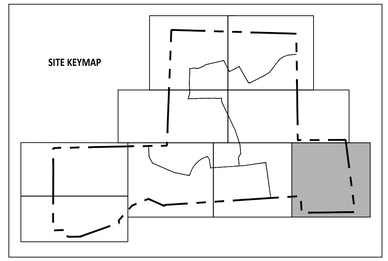
2025-05-01

SEE SHEET CE-122

SEE SHEET CE-126



SITE KEYMAP



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CES01
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CES02
	SILT FENCE OUTLET	02 / CES01
	SEDIMENT SACK INLET PROTECTION	03 / CES01
	STANDARD PIPE INLET PROTECTION	08 / CES01
	GRAVEL INLET PROTECTION	04 / CES00
	GRAVEL CHECK DAM	03 / CES00
	MAINTENANCE PAD	06 / CES02
	RIPRAP DISSIPATOR	07 & 08 / CES00
	SLOPE DRAIN/DRAINAGE PIPE	09 / CES00
	STAGING AND LAYDOWN AREA	NCG01 / CES03
	CONSTRUCTION ENTRANCE	02 / CES00
	CONCRETE WASHOUT PIT	NCG01 / CES03

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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

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MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 3
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 3

SHEET NO.:
CE-121

Z:\Jobs\23-0004 Merritt Property (BRD)\Dwg_Working Dwgs\Sheets\Construction Set\13. CE-121-124 Erosion Control (SD Scale).dwg
2025-05-01

SEE SHEET CE-124

SEE SHEET CE-123

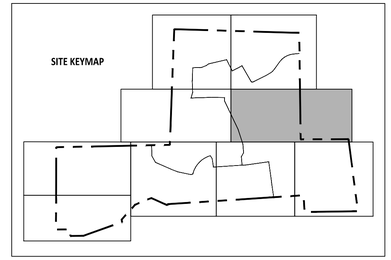
SEE SHEET CE-125



SEE SHEET CE-126

SEE SHEET CE-121

SITE KEYMAP



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

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ENGINEER
JAKOB P. KLEIN

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MERRITT RESERVE
EROSION CONTROL
PHASE 1
STAGE 3
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 3

SHEET NO.:
CE-122

North Carolina 811 811

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

Z:\Jobs\23-0004 Merritt Property BRP\dwg_Working Dwgs\Sheet\Construction Set\13. CE-121-124 Erosion Control (50-Scale).dwg

2025-05-01

BROOKFIELD RESIDENTIAL (THE POINTE), LLC
D.B. 018857, PG 0748
B.M. 2021, PG 1745
PIN# 1758.15-45-4698
LAND USE: ACRES GREATER THAN 10 WITH HOUSE
ZONING: R-4 PDD

ASHTON RALEIGH
D.B. 177
B.M. 20
PIN# 175
LAND L
ZONI

24. Street linework should align with the work being proposed. Please clarify the intent of the grading within this Stage and what will be installed.

SILT FENCE OUTLET, TYP

SILT FENCE OUTLET, TYP

TF TO ACT AS LIMITS OF DISTURBANCE

TF/SF TO ACT AS LIMITS OF DISTURBANCE

TF TO ACT AS LIMITS OF DISTURBANCE

INLET PROTECTION, TYP

INLET PROTECTION, TYP

SILT FENCE OUTLET, TYP

BRIDGE MAT

CONCRETE WASHOUT

CONSTRUCTION ENTRANCE

RECORD BOX

SCM 1B

SCM 1C

HW 10
EW 11
MH 500
MH 501
MH 502
MH 503
MH 504
MH 507
MH 508
MH 520
MH 521
MH 522
MH 523
MH 544
CB 111A
CB 111
CB 112
CB 112A
CB 145A
CB 145B
CB 145C
CB 145D
CB 146
CB 146A
CB 146B
CB 148
CB 149
CB 150
CB 150A
CB 150B
CB 163
CB 164
CB 216A
EW 21
FES 146C
FES 160
FES-OS-1B
FES-OS-1C
HW 20
OS-1B
OS-1C
YI 155
YI 161
YI 233
YI 234
B 110

SEE SHEET CE-124

SEE SHEET CE-122

SITE KEYMAP

EROSION CONTROL LEGEND

		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503

SITE LEGEND

	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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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919-469-1101

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

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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER 36528 JAKOB P. KLEIN

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MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 3
ROLESVILLE RD
WAKE COUNTY NC 27312

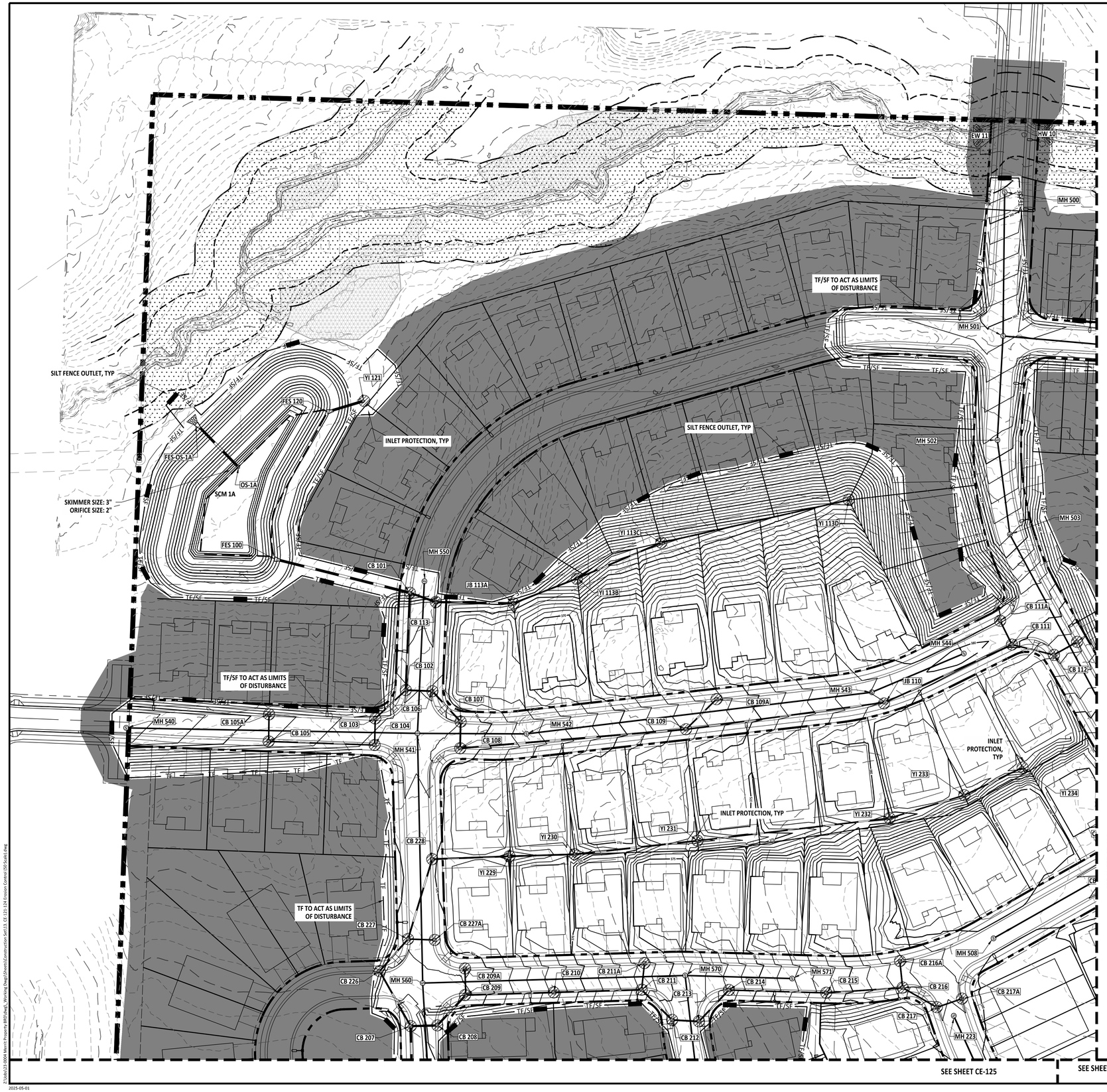
JOB NUMBER:	23-0004
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DATE:	05/01/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 3

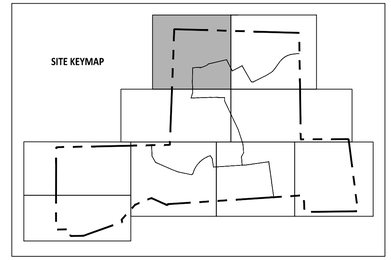
SHEET NO.:
CE-123

Z:\Jobs\23-0004 Merritt Property (RBP)\Proj_Working Dwgs\Sheets\Construction Set\13. CE-121-124 Erosion Control (SD Scale).dwg

2025-05-01



SITE KEYMAP



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

AMERICAN Engineering
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919-469-1101

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NORTH CAROLINA REGISTERED 36528 ENGINEER JAKOB P. KLEIN

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MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 3
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
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DATE:	05/01/2025

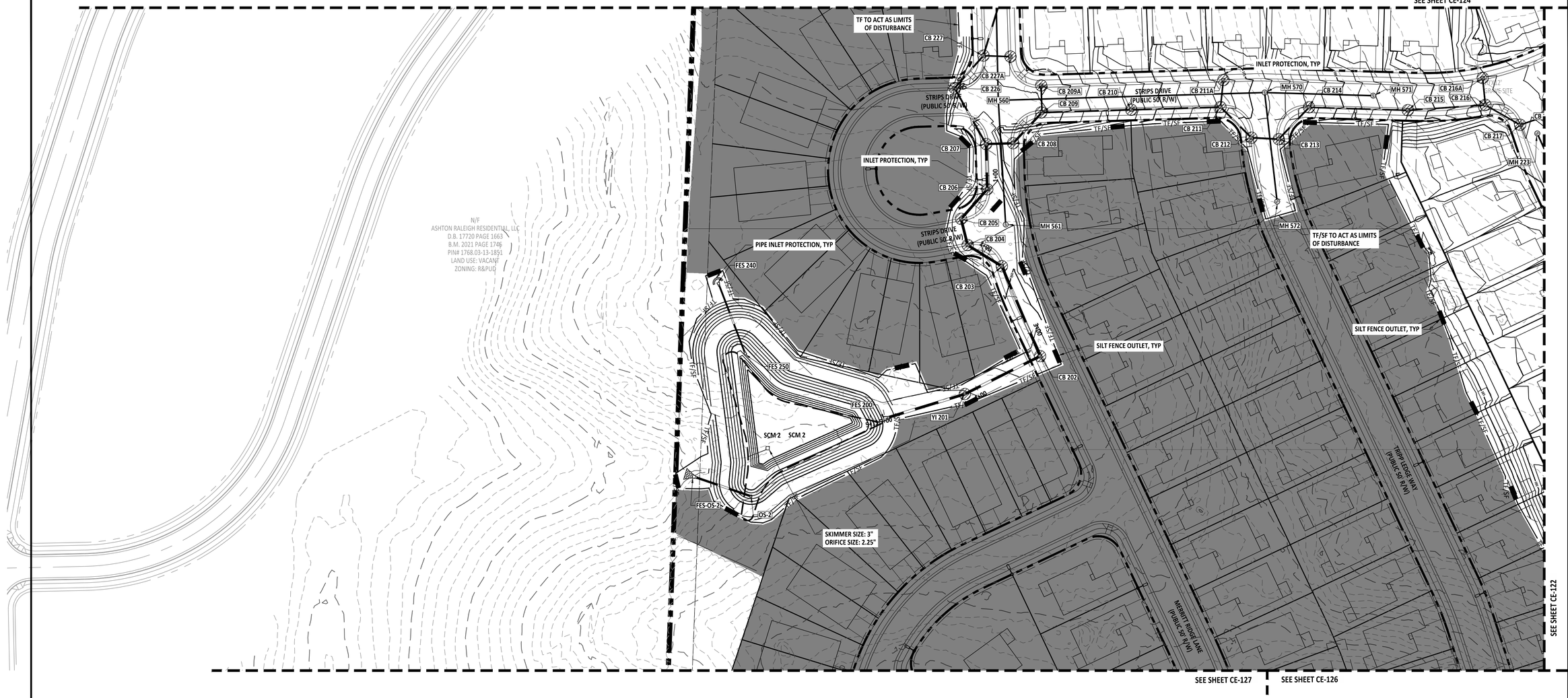
SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 3

SHEET NO.:
CE-124

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

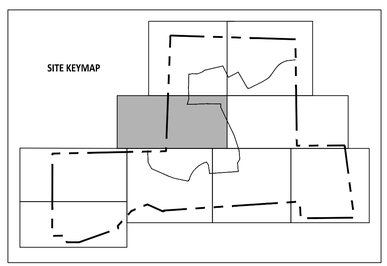
Z:\Jobs\23-0004 Merritt Property @RDA\wip_Working Dwgs\Sheets\Construction Set\13. CE-121-124 Erosion Control (50-Scale).dwg

2025-05-01



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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

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AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

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NORTH CAROLINA
36528
ENGINEER
JAKOB P. KLEIN

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MERRITT RESERVE
EROSION CONTROL
PHASE 1
STAGE 3
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 3

SHEET NO.:
CE-125

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

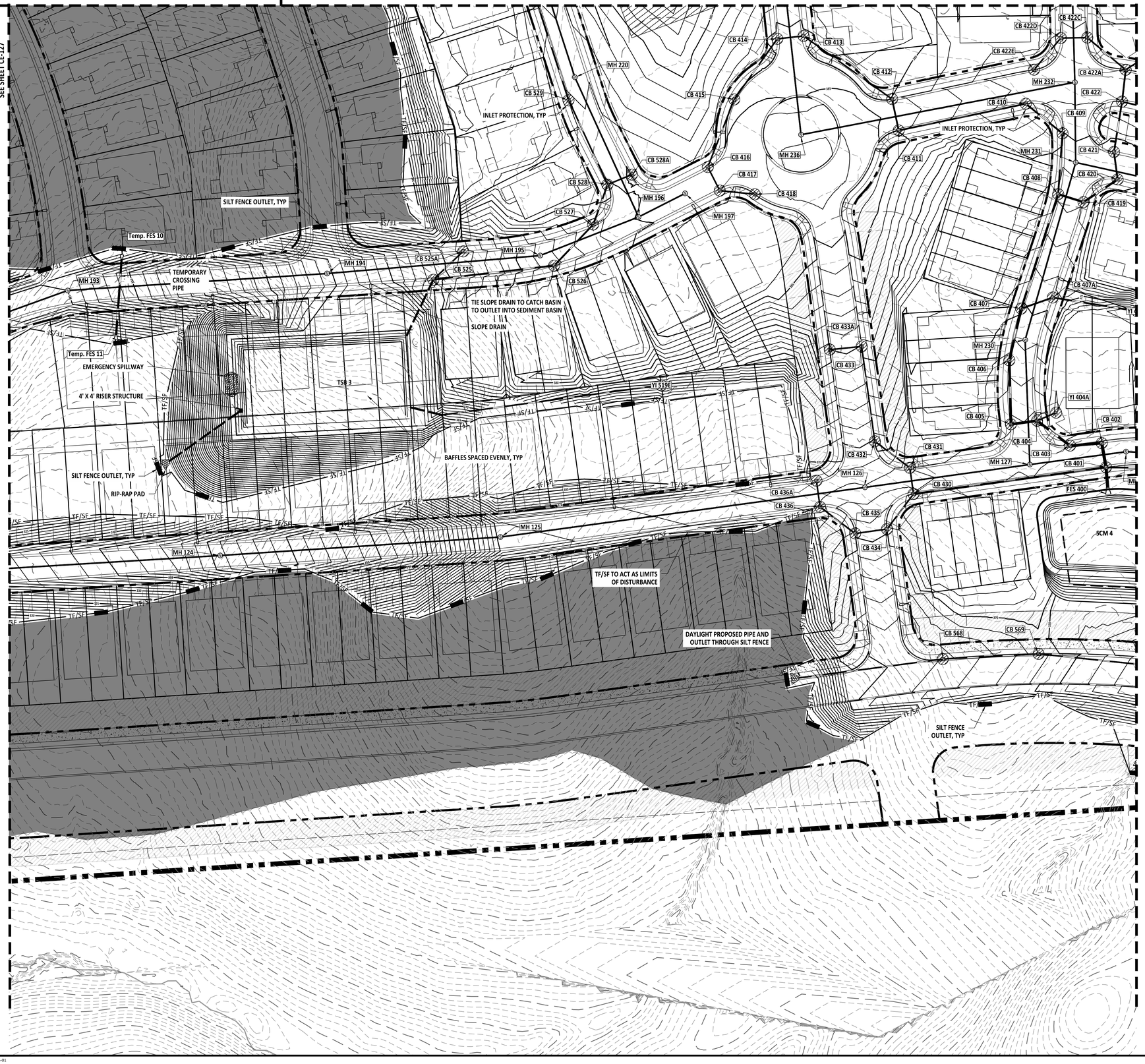
Z:\Jobs\23-0004 Merrit Property @RDU\dwg_Working Dwgs\Sheets\Construction Set\14. CE-125-128 Erosion Control (50 Scale).dwg
2025-05-01

SEE SHEET CE-125

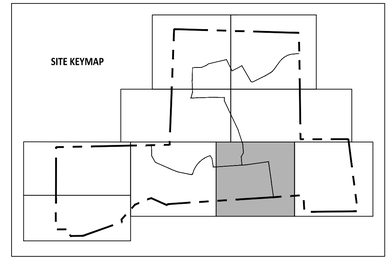
SEE SHEET CE-124

SEE SHEET CE-127

SEE SHEET CE-121



SITE KEYMAP



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

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

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JAXON P. KLEIN

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MERRITT RESERVE

EROSION CONTROL PHASE 1 STAGE 3

ROLESVILLE RD

WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

EROSION CONTROL PHASE 1 STAGE 3

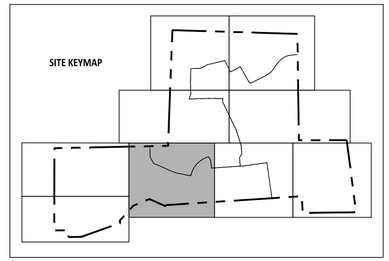
SHEET NO.:

CE-126

Z:\Jobs\23-0004 Merritt Property (BBR)\Dwgs_Working Dwgs\Sheets\Construction Set\14. CE 125-128 Erosion Control (50 Scale).dwg

2025-05-01





EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3861 CERTIFICATE OF AUTHORIZATION

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NORTH CAROLINA PROFESSIONAL ENGINEER 36528 JAKOB P. KLEIN

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MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 3
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 3

SHEET NO.:
CE-127

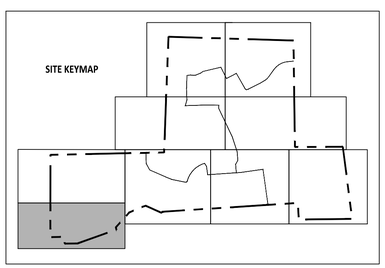
North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503

SITE LEGEND	
	PROPERTY BOUNDARY
	PHASELINE
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

SITE KEYMAP



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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

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36528
TAYLOR P. KLEIN
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MERRITT RESERVE
8501 LEVI RIDGE RD
ROLESVILLE
WAKE COUNTY NC 27312

EROSION CONTROL PHASE 1 STAGE 3

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 3

SHEET NO.:
CE-128

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\23-0004 Merrit Property BRD\dwg_Working Dwgs\Sheets\Construction Set\14. CE-125-128 Erosion Control (50 Scale).dwg
2025-05-01

REQUIRED GROUND STABILIZATION TIMEFRAMES			
STABILIZATION AREA	SITE AREA DESCRIPTION	STABILIZE WITHIN THIS MANY CALENDAR DAYS AFTER CEASING LAND DISTURBANCE	TIMEFRAME VARIATIONS
1	(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	none
	(b) High Quality Water (HQW) Zones	7	none
	(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
2	(d) Slopes 3:1 to 4:1	14	- 7 days for slopes greater than 50' in length and with slopes steeper than 4:1 - 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones
3	(e) Areas with slopes flatter than 4:1	14	- 7 days for perimeter dikes, swales, ditches, perimeter slopes with HQW Zones

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

TEMPORARY SEEDING SCHEDULE		
DATE	TYPE	RATE (lb/acre)
FEB 15 - APRIL 1	VIRGINIA WILD RYE	4-6 LBS/ACRE
AUG 15 - OCT 15	INDIAN WOODOATS	1.5-2.5 LBS/ACRE
DEC 1 - APRIL 1	SWITCHGRASS	2.5-3.5 LBS/ACRE

SEEDING NOTES
1. REFERENCE PERMANENT SEEDING RECOMMENDATIONS FOR SEEDBED PREPARATION.
2. ROLESVILLE IS LOCATED IN PIEDMONT REGION OF NORTH CAROLINA.

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

31. The white is everything not in Area 1 and 2, but this also indicates area outside of the project area and/or areas not disturbed. Please consider this and confirm if this was the intent. This applies to multiple sheets.

NDPES DOCUMENTATION NOTES

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

GRAPHIC SCALE

150 0 75 150 300 600

(IN FEET)
1 inch =150 ft

PROJECT NUMBER = PSP-24-07

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

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Raleigh, NC 27607
919-469-1101

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NORTH CAROLINA 36528 ENGINEER JAKOB P. KLEIN

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MERRITT RESERVE
PHASE 1 NDPES PLAN
ROLESVILLE RD
WAKE COUNTY NC 27312

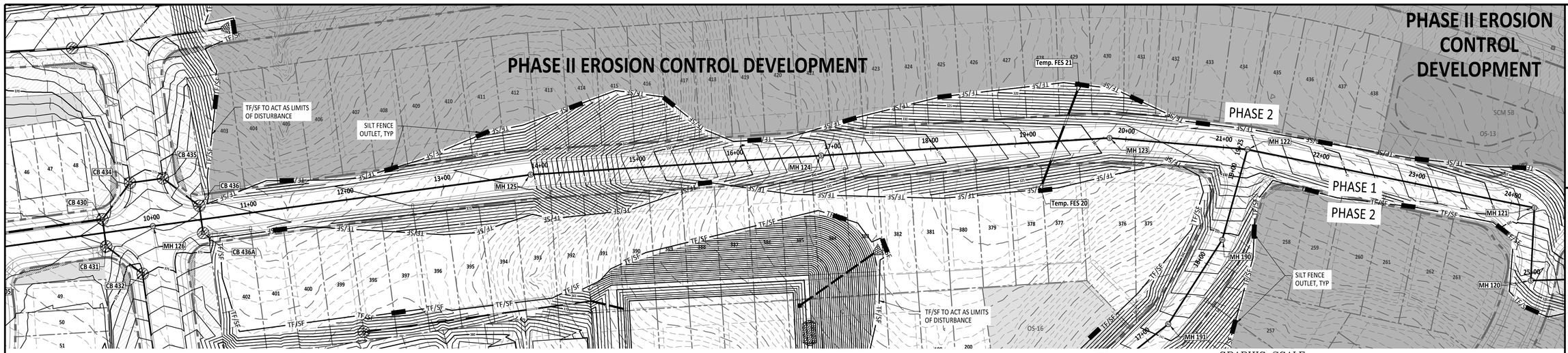
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

PHASE 1
NDPES PLAN

SHEET NO.:
CE-130

Z:\Jobs\23-0004 Merritt Property BRP\Revit_Working Dwgs\Sheets\Construction Set\15 CE-130 PHASE 1 NDPES Plan.dwg
2025-05-01

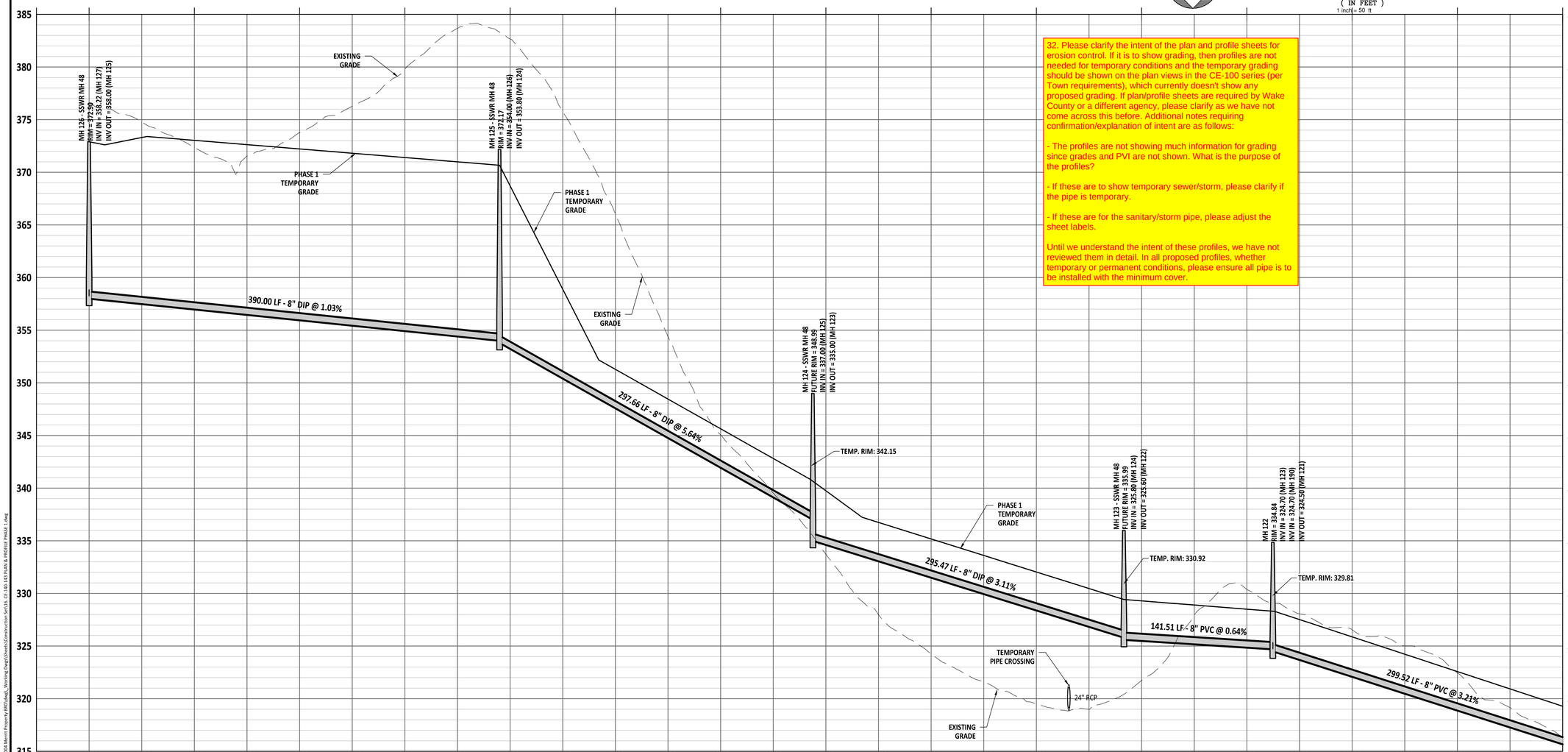


GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft



32. Please clarify the intent of the plan and profile sheets for erosion control. If it is to show grading, then profiles are not needed for temporary conditions and the temporary grading should be shown on the plan views in the CE-100 series (per Town requirements), which currently doesn't show any proposed grading. If plan/profile sheets are required by Wake County or a different agency, please clarify as we have not come across this before. Additional notes requiring confirmation/explanation of intent are as follows:

- The profiles are not showing much information for grading since grades and PVI are not shown. What is the purpose of the profiles?

- If these are to show temporary sewer/storm, please clarify if the pipe is temporary.

- If these are for the sanitary/storm pipe, please adjust the sheet labels.

Until we understand the intent of these profiles, we have not reviewed them in detail. In all proposed profiles, whether temporary or permanent conditions, please ensure all pipe is to be installed with the minimum cover.

PROJECT NUMBER = PSP-24-07

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MERRITT RESERVE

EROSION CONTROL PLAN & PROFILE PHASE 1

ROLESVILLE RD

WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

EROSION CONTROL PLAN & PROFILE PHASE 1

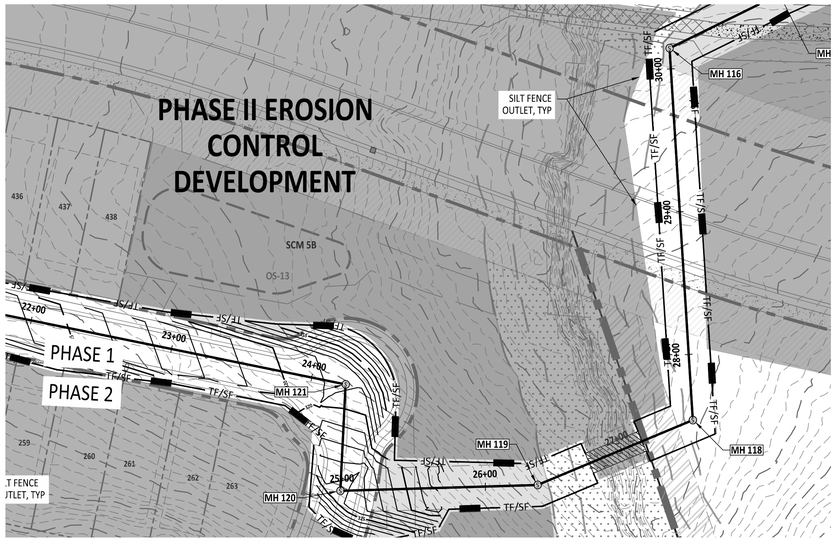
SHEET NO.:

CE-140

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\23-0004 Merritt Property (BRT)\Dwg_Working Dwgs\Sheets\Construction Set\16. CE-140-143 PLAN & PROFILE PHASE 1.dwg

2025-05-01

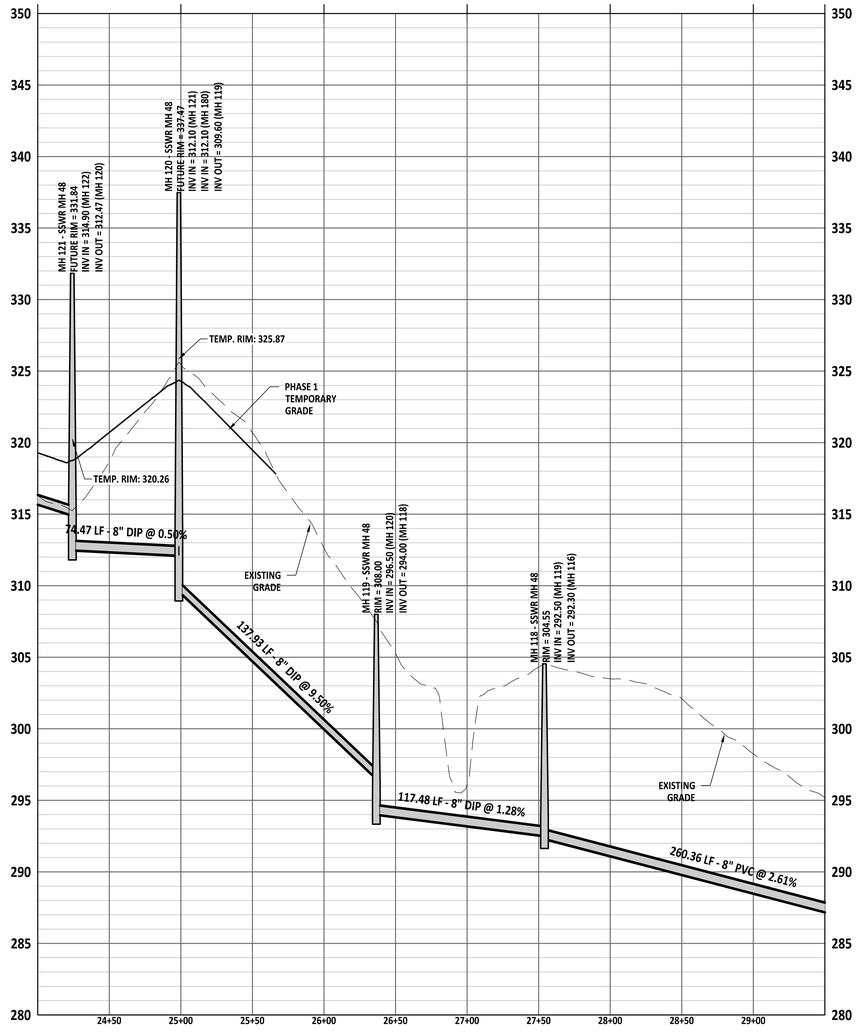


GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft



PROJECT NUMBER = PSP-24-07

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

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NORTH CAROLINA — REGISTERED — 36528 — ENGINEER — JAKOB P. KLEIN

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MERRITT RESERVE

EROSION CONTROL PLAN & PROFILE PHASE 1

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
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DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

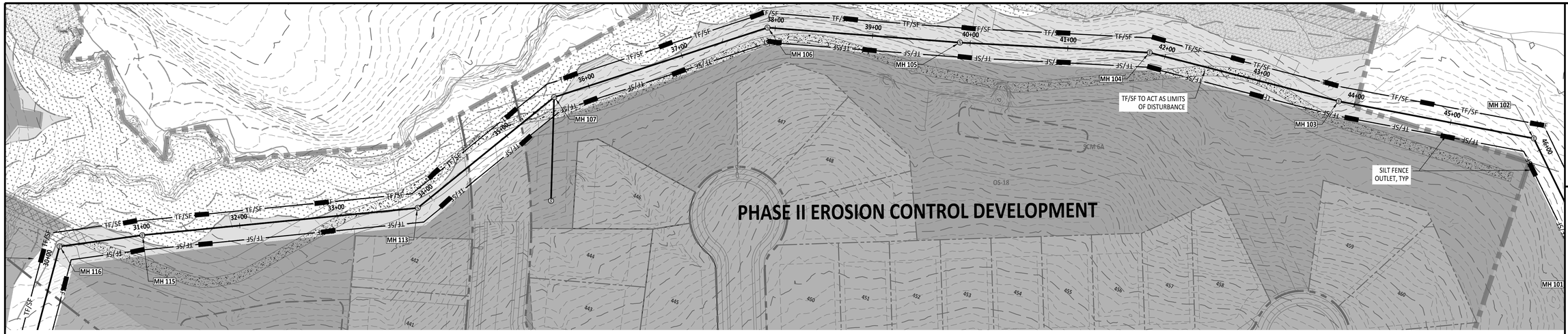
SHEET TITLE: EROSION CONTROL PLAN & PROFILE PHASE

SHEET NO.: 1 CE-141

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\23-0004 Merritt Property #RPs\dwg_Working Dwgs\Sheets\Construction Set\16. CE-140-143 PLAN & PROFILE PHASE 1.dwg

2025-05-01

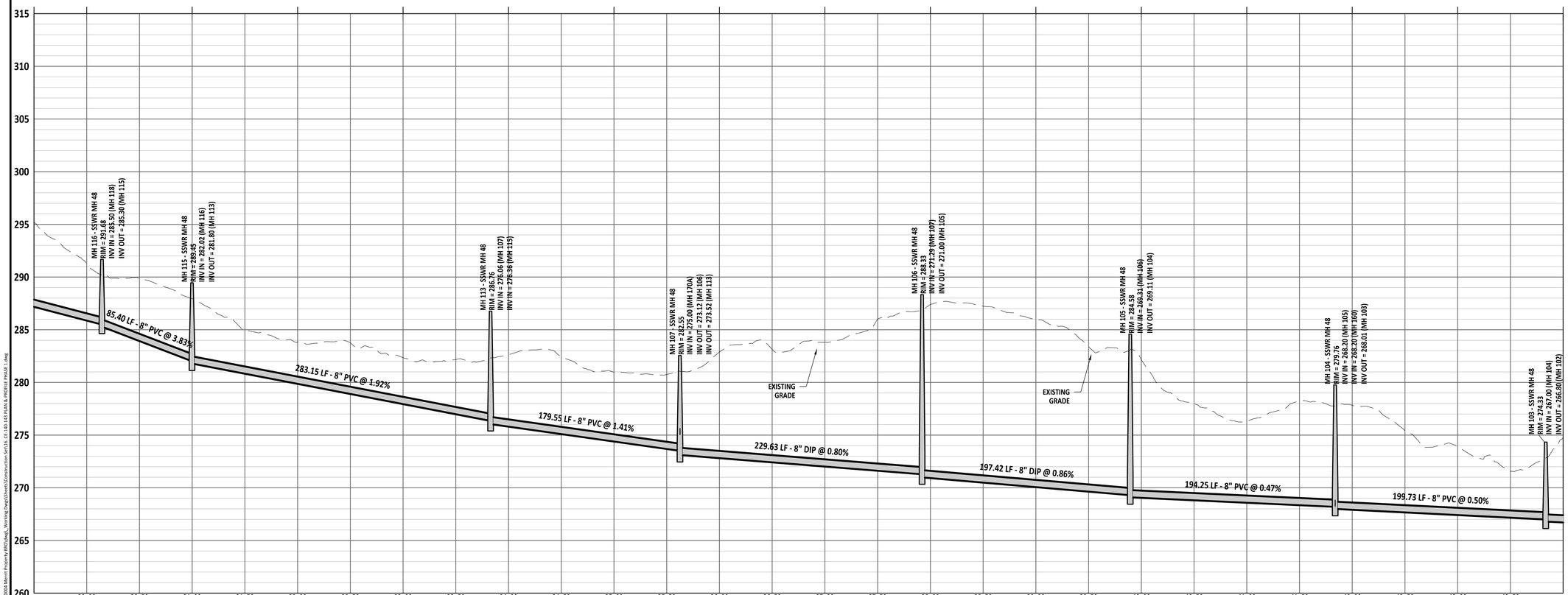


GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft



PROJECT NUMBER = PSP-24-07

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WAKE COUNTY NC 27312

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EROSION CONTROL PLAN & PROFILE PHASE 1

SHEET NO.:

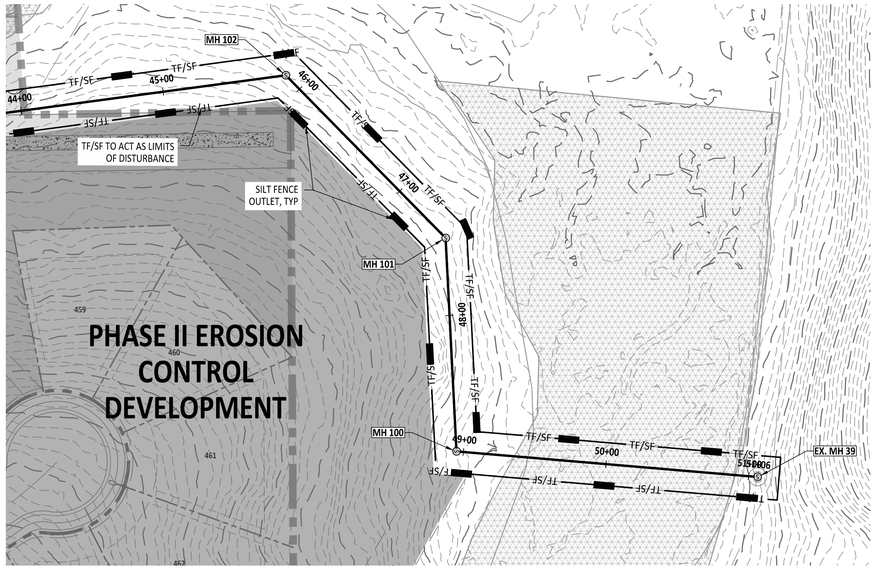
CE-142

North Carolina 811 811

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

Z:\Jobs\23-0004 Merritt Property (BRP)\Mark_Working Dwgs\Sheets\Construction Set\16. CE-140-143 PLAN & PROFILE PHASE 1.dwg

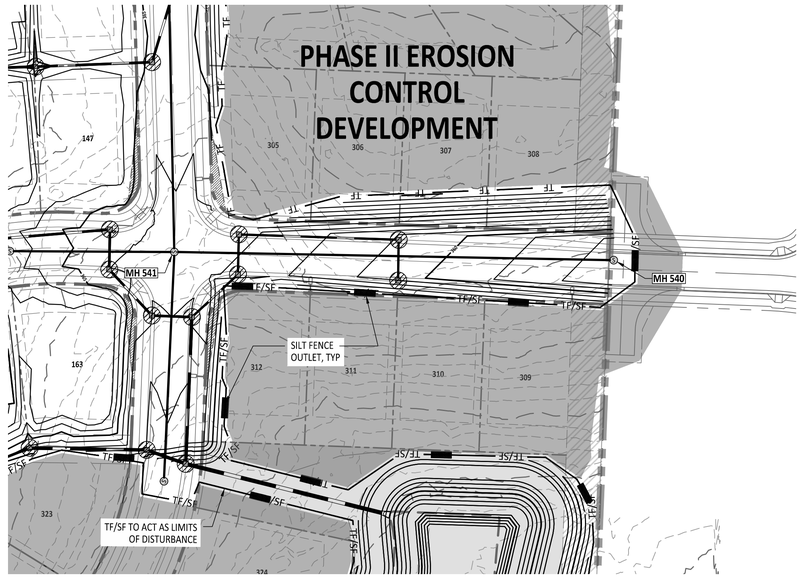
2025-05-01



GRAPHIC SCALE

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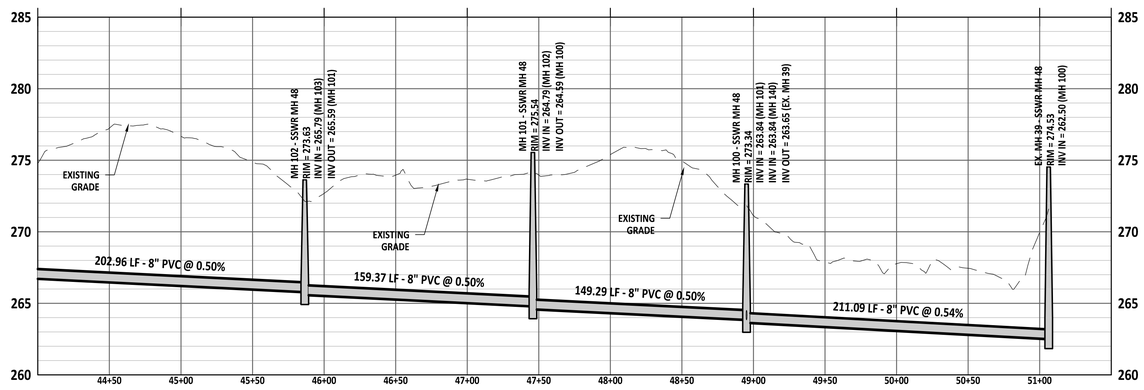
(IN FEET)
1 inch = 50 ft

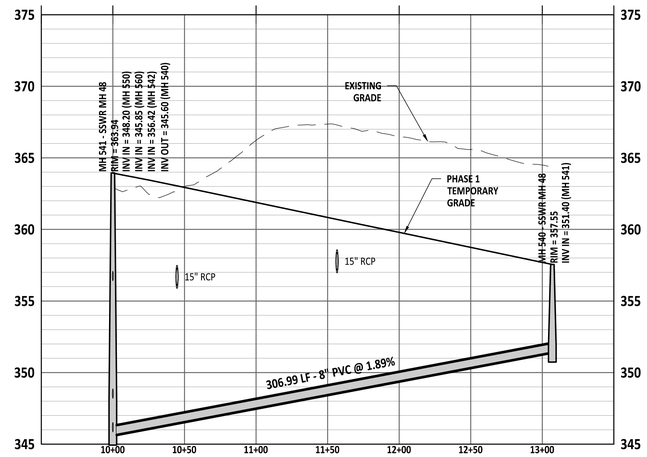


GRAPHIC SCALE

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(IN FEET)
1 inch = 50 ft





PROJECT NUMBER = PSP-24-07

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

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

PRELIMINARY

NORTH CAROLINA REGISTERED 36528 ENGINEER JAKOB P. KLEIN

DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:

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MERRITT RESERVE

EROSION CONTROL PLAN & PROFILE PHASE 1

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

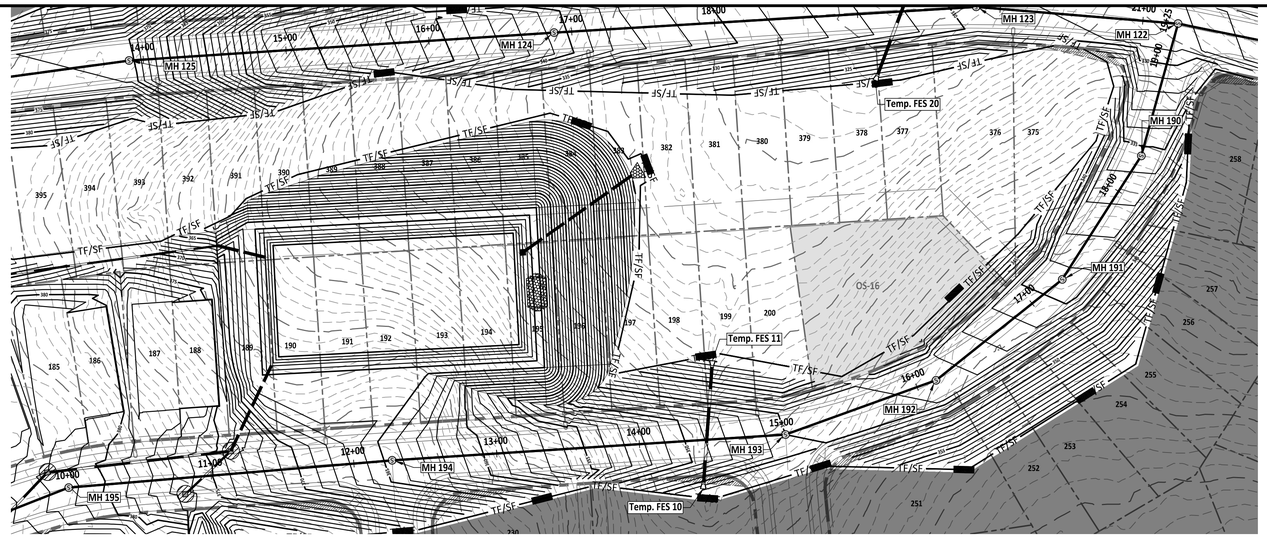
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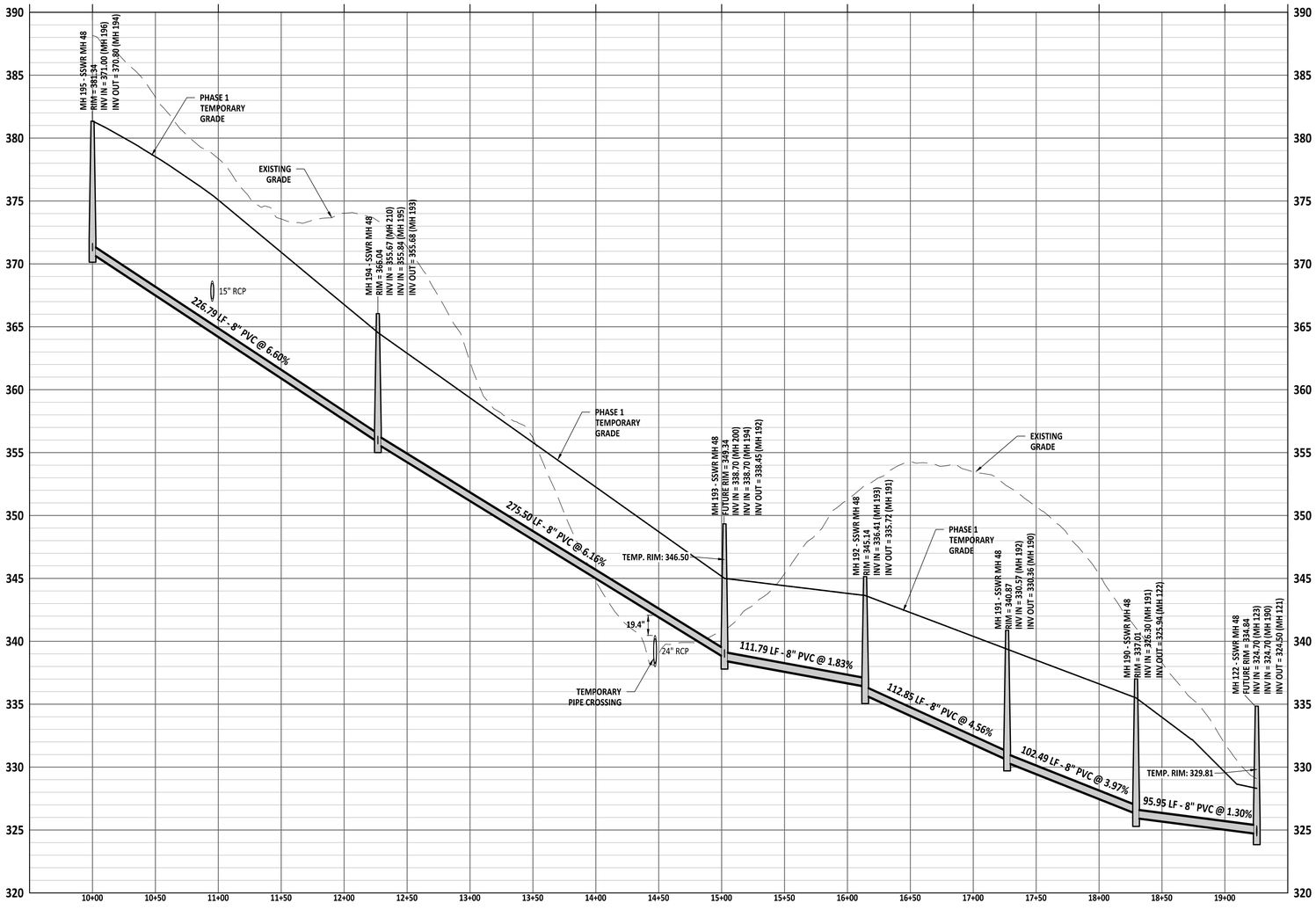
EROSION CONTROL PLAN & PROFILE PHASE 1

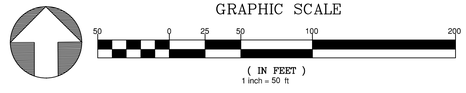
SHEET NO.:

CE-143

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







PROJECT NUMBER = PSP-24-07

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

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

PRELIMINARY
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NORTH CAROLINA 36528 ENGINEER JACOB P. KLEIN

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MERRITT RESERVE
EROSION CONTROL PLAN & PROFILE PHASE 1
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE: EROSION CONTROL PLAN & PROFILE PHASE 1

SHEET NO.: CE-144

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

Z:\Jobs\23-0004 Merrit Property (BRD)\Dwg_Working Dwgs\Sheets\Construction Set\17. CE-144-145 PLAN & PROFILE PHASE 1.dwg
2025-05-01