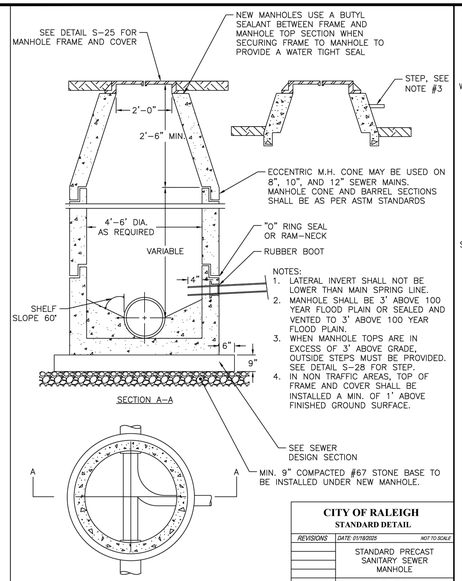
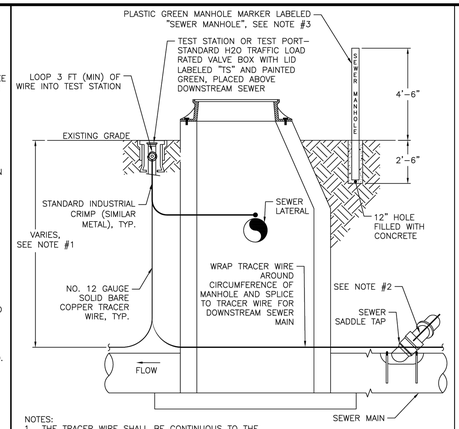


CITY OF RALEIGH
STANDARD DETAIL

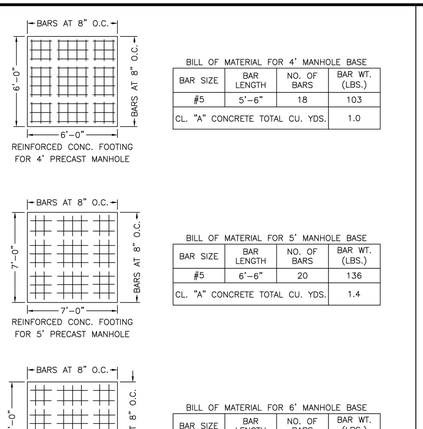
REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	STANDARD PRECAST SANITARY SEWER MANHOLE	
	S-20	



NOTES:
1. THE TRACER WIRE SHALL BE CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. FOR GRAVITY MAIN AND OR LATERAL INSTALLATIONS LESS THAN 8 FT., THE TRACING WIRE SHALL BE ATTACHED TO THE PIPE. TRACER WIRE SHALL BE LAID FLAT AND SECURELY AFFIXED TO THE PIPE AT 10 FOOT INTERVALS. FOR GRAVITY MAIN AND OR LATERAL INSTALLATION DEEPER THAN 8 FT, THE TRACING WIRE SHALL BE INSTALLED AT A DEPTH OF 7-8 FT. THE WIRE SHALL BE PROTECTED FROM DAMAGE DURING THE EXECUTION OF THE WORK. NO BREAKS OF CUTS IN THE TRACER WIRE SHALL BE PERMITTED.
2. WHERE LATERAL TAPS ARE MADE BY SERVICE SADDLES, THE TRACER WIRE SHALL NOT BE ALLOWED TO TO BE PLACED BETWEEN THE SADDLE AND MAIN.
3. MANHOLE MARKERS SHALL BE PLACED ADJACENT TO MANHOLES AT THE DISCRETION OF OWNER OR OWNER'S REPRESENTATIVE.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	GRAVITY SEWER MAIN TRACER WIRE AND MANHOLE MARKER	
	S-20A	



BILL OF MATERIAL FOR 4' MANHOLE BASE

BAR SIZE	BAR LENGTH	NO. OF BARS	BAR WT. (LBS.)
#5	5'-6"	18	103
CL. "A" CONCRETE TOTAL CU. YDS.			1.0

BILL OF MATERIAL FOR 5' MANHOLE BASE

BAR SIZE	BAR LENGTH	NO. OF BARS	BAR WT. (LBS.)
#5	6'-6"	20	136
CL. "A" CONCRETE TOTAL CU. YDS.			1.4

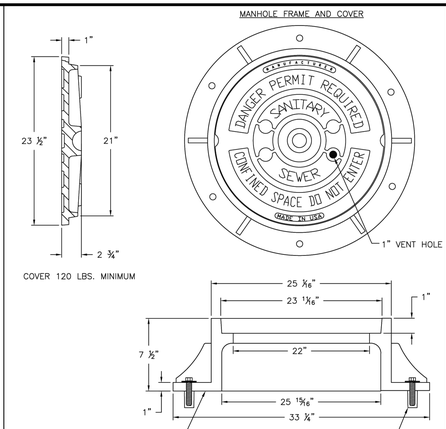
BILL OF MATERIAL FOR 6' MANHOLE BASE

BAR SIZE	BAR LENGTH	NO. OF BARS	BAR WT. (LBS.)
#5	7'-6"	24	165
CL. "A" CONCRETE TOTAL CU. YDS.			1.8

* ALL BASES ARE MINIMUM 9" THICK

CITY OF RALEIGH
STANDARD DETAIL

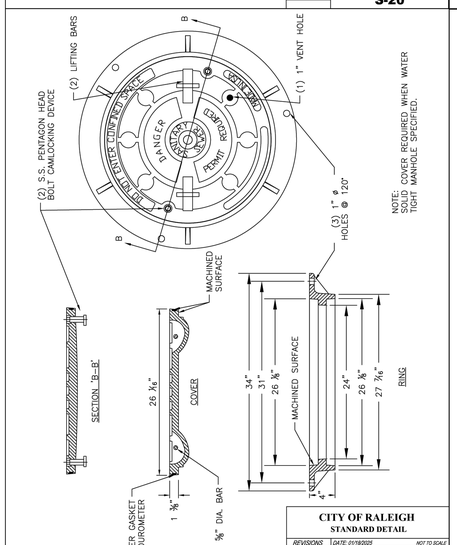
REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	EXTENDED BASE OR CAST-IN-PLACE REINFORCED CONCRETE BASE	
	S-21	



NOTES:
1. ALL MANHOLE FRAMES SHALL BE DOMESTICALLY CAST.
2. FRAME SHALL BE A MINIMUM WEIGHT OF 182 LBS. WITHIN PUBLIC ROW AND 160 LBS. WITHIN EASEMENTS.
3. COVER SHALL WEIGH A MIN. OF 120 LBS.
4. ALL MANHOLE FRAMES OUTSIDE OF PAVED SURFACES SHALL BE BOLTED TO THE CONE SECTION OR RING WITH A MINIMUM OF 4 BOLTS PER FRAME.

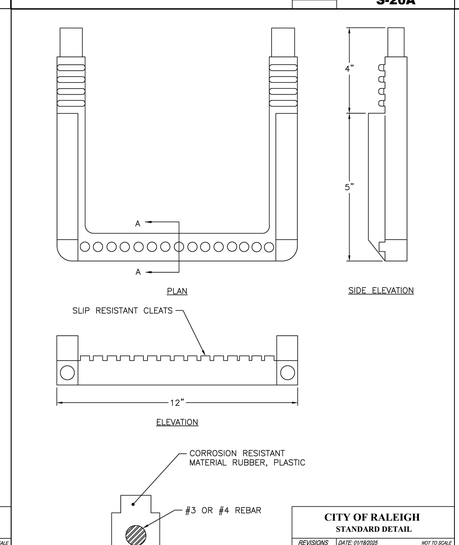
CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	STANDARD MANHOLE COVER	
	S-25	



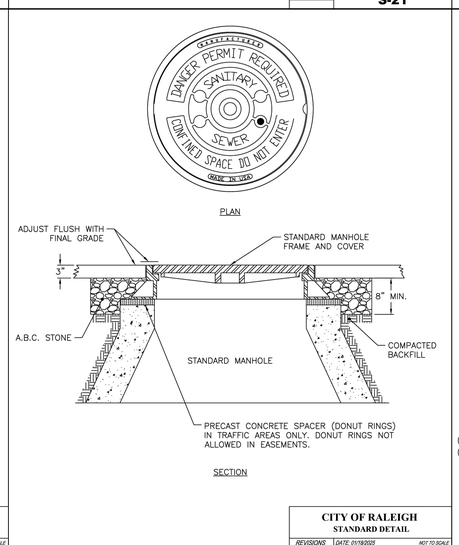
CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	FLAT MANHOLE COVER	
	S-25A	



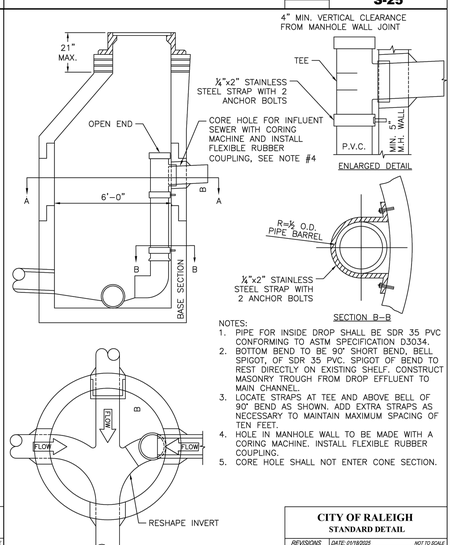
CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	STANDARD SLIP RESISTANT MANHOLE STEP DETAIL	
	S-28	



CITY OF RALEIGH
STANDARD DETAIL

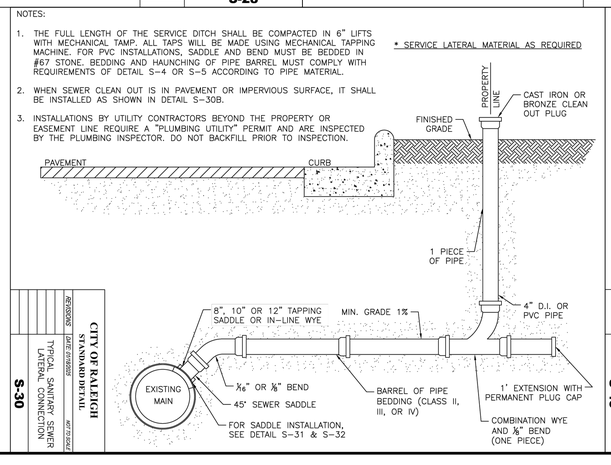
REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	STANDARD MANHOLE FRAME AND COVER DETAIL WITHIN FRAME SURFACE	
	S-29	



NOTES:
1. PIPE FOR INSIDE DROP SHALL BE SDR 35 PVC CONFORMING TO ASTM SPECIFICATION D3034.
2. BOTTOM BEND TO BE 90° SHORT BEND, BELL SPIGOT, OF SDR 35 PVC. SPIGOT OF BEND TO REST DIRECTLY ON EXISTING SHELF. CONSTRUCT MASONRY TROUGH FROM DROP EFFLUENT TO MAIN CHANNEL.
3. LOCATE STRAPS AT TEE AND ABOVE BELL OF 90° BEND AS SHOWN. ADD EXTRA STRAPS AS NECESSARY TO MAINTAIN MAXIMUM SPACING OF TEN FEET.
4. HOLE IN MANHOLE WALL TO BE MADE WITH A CORING MACHINE. INSTALL FLEXIBLE RUBBER COUPLING.
5. CORE HOLE SHALL NOT ENTER CONE SECTION.

CITY OF RALEIGH
STANDARD DETAIL

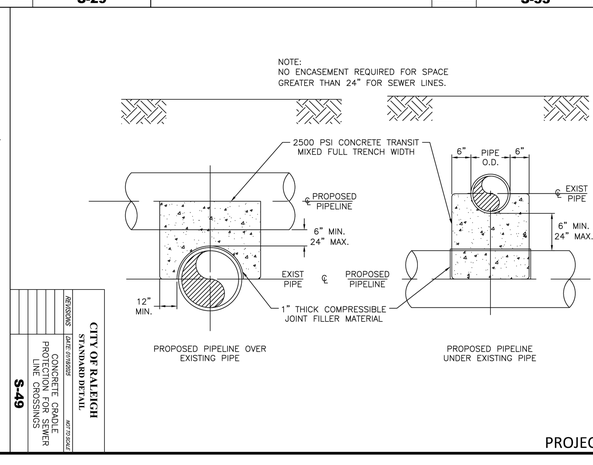
REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	INSIDE DROP MANHOLE	
	S-53	



NOTES:
1. THE FULL LENGTH OF THE SERVICE DITCH SHALL BE COMPACTED IN 6" LIFTS WITH MECHANICAL TAMP. ALL TAPS WILL BE MADE USING MECHANICAL TAPPING MACHINE. FOR PVC INSTALLATIONS, SADDLE AND BEND MUST BE BEDDED IN #67 STONE, BEDDING AND HAUNCHING OF PIPE BARREL MUST COMPLY WITH REQUIREMENTS OF DETAIL S-4 OR S-5 ACCORDING TO PIPE MATERIAL.
2. WHEN SEWER CLEAN OUT IS IN PAVEMENT OR IMPERVIOUS SURFACE, IT SHALL BE INSTALLED AS SHOWN IN DETAIL S-30B.
3. INSTALLATIONS BY UTILITY CONTRACTORS BEYOND THE PROPERTY OR EASEMENT LINE REQUIRE A "PLUMBING UTILITY" PERMIT AND ARE INSPECTED BY THE PLUMBING INSPECTOR. DO NOT BACKFILL PRIOR TO INSPECTION.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	TYPICAL SANITARY SEWER LATERAL CONNECTION	
	S-30	



CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	CONCRETE CRADLE FOR SEWER LINE CROSSINGS	
	S-49	

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919-469-1101

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

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

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET

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MERRITT RESERVE
UTILITY DETAILS
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:
UTILITY DETAILS

SHEET NO.:
CU-503

PROJECT NUMBER = CID-25-02

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

Z:\Jobs\23-0004 Merrit Property BRD\dwg_Working Dwgs\Sheets\Construction Set\S1- CU-500-503 UTILITY DETAILS.dwg
2025-07-01



GRAPHIC SCALE

150 0 75 150 300 600

(IN FEET)

1 inch =150 ft

PROJECT NUMBER = CID-25-02

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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PRELIMINARY

PRELIMINARY — NOT FOR CONSTRUCTION — DO NOT USE FOR CONSTRUCTION

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

FOR INFORMATION, ONLY

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MERRITT RESERVE

GRADING AND DRAINAGE OVERALL 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:

GRADING AND DRAINAGE OVERALL PLAN

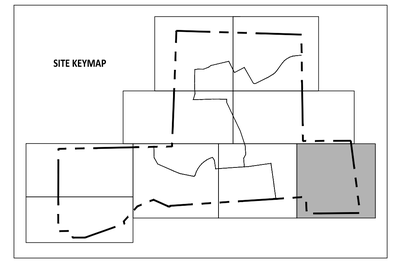
SHEET NO.:

CG-100

Z:\Jobs\23-0004 Merrit Property (BRD)\dwg_Working Dwgs\Shared\Construction Set\CG -100 Grading and Drainage Plan.dwg

2025-07-02





GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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JACOB P. KLEIN 36528 ENGINEER
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MERRITT RESERVE

GRADING AND DRAINAGE

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:

GRADING AND DRAINAGE

SHEET NO.:

CG-101

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 BRP\Revit_Working Dwgs\Sheets\Construction Set\CG-101-103 Grading and Drainage\CG-101.dwg

2025-07-02

SEE SHEET CG-104

SEE SHEET CG-103

SEE SHEET CG-105

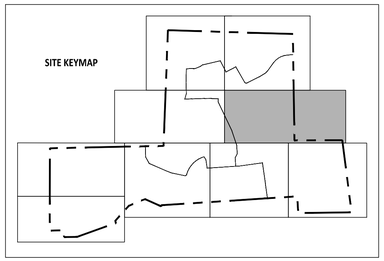
SEE SHEET CG-106

SEE SHEET CG-101



N/F
OPTIMAL DEVELOPMENT, LLC
D.B. 18224 PAGE 1209
B.M. 1985 PAGE 1807
PIN# 1768.03-33-7689
LAND USE: VACANT
ZONING: RL

SITE KEYMAP



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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Raleigh, NC 27607
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NORTH CAROLINA 36528 ENGINEER JAXON P. KLEIN

FOR INFORMATION, ONLY

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1	07-01-25	FIRST REVISION SET

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MERRITT RESERVE

GRADING AND DRAINAGE

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:

GRADING AND DRAINAGE

SHEET NO.:

CG-102

PROJECT NUMBER = CID-25-02

North Carolina 811 811.ORG
*** 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\CG-101-103 Grading and Drainage (50-Scale).dwg
2025-07-01

N/F
BROOKFIELD HOLDINGS(THE POINTE), LLC
D.B. 18774 PAGE 748
B.M. 2021 PAGE 1745
PIN# 1768.10-25-46.98
LAND USE: ACRES GREATER THAN 10 WITH HOUSE
ZONING: R&PUD

N/F
ASHTON RALEIGH RESIDENTIAL, LLC
D.B. 17720 PAGE 1663
B.M. 2021 PAGE 1745
PIN# 1768.03-34-7557
LAND USE: VACANT
ZONING: R&PUD

SITE KEYMAP

SCM ACCESS & MAINTENANCE EASEMENT
EXISTING 50' GAS EASEMENT D.B. 16741 P.G. 120
FUTURE TOWN PARK OS-19
FUTURE TOWN PARK OS-20
STRIPS DRIVE (PUBLIC 60' R/W)
JOCUMO STREET (PUBLIC 50' R/W)
MERRITT RIDGE LANE (PRIVATE 40' R/W)
3' COR UTILITY PUBLIC EASEMENT
VARIABLE WIDTH DRAINAGE EASEMENT
20' PRIVATE DRAINAGE EASEMENT
SCM ACCESS & MAINTENANCE EASEMENT

SCM 1C
OS-1C
FES-OS-1C
FES 160
YI 161
YI 162
CB 163
CB 164
OS-8
EW 21
HW 20
OS-4
FES-OS-1B
OS-1B
SCM 1B
CB 145D
CB 146B
CB 145C
CB 145B
CB 145A
CB 146
CB 146A
CB 145
CB 144A
EW 11
HW 10
CB 138
CB 137
CB 125A
CB 125
CB 126
CB 127
CB 128
CB 130
CB 131A
CB 131
CB 132
JB 133
CB 134A
CB 129
CB 134
YI 133A
CB 136
YI 136B
CB 136A
CB 135
CB 111A
CB 111
CB 112
CB 112A
CB 148
CB 150B
CB 150A
CB 149
CB 150
CB 216A
CB 216
YI 214
YI 155

SEE SHEET CG-104
SEE SHEET CG-102

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

PROJECT NUMBER = CID-25-02

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 36528 ENGINEER JAKOB P. KLEIN
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1	07-01-25	FIRST REVISION SET

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MERRITT RESERVE

GRADING AND DRAINAGE

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:

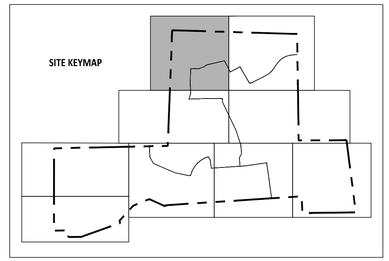
GRADING AND DRAINAGE

SHEET NO.:
CG-103

Z:\Jobs\23-0004 Merritt Property (BRP)\Dwg_Working Dwgs\Sheets\Construction Set\CG_CG-103 Grading and Drainage (GS-Scale).dwg
2025-07-01



SITE KEYMAP



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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PRELIMINARY
NORTH CAROLINA
36528
ENGINEER
JAKOB P. KLEIN
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1	07-01-25	FIRST REVISION SET

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MERRITT RESERVE

GRADING AND DRAINAGE

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:

GRADING AND DRAINAGE

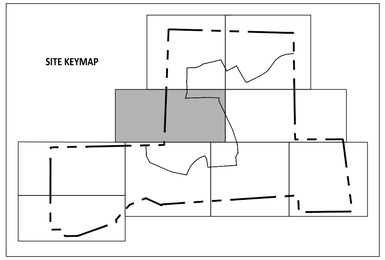
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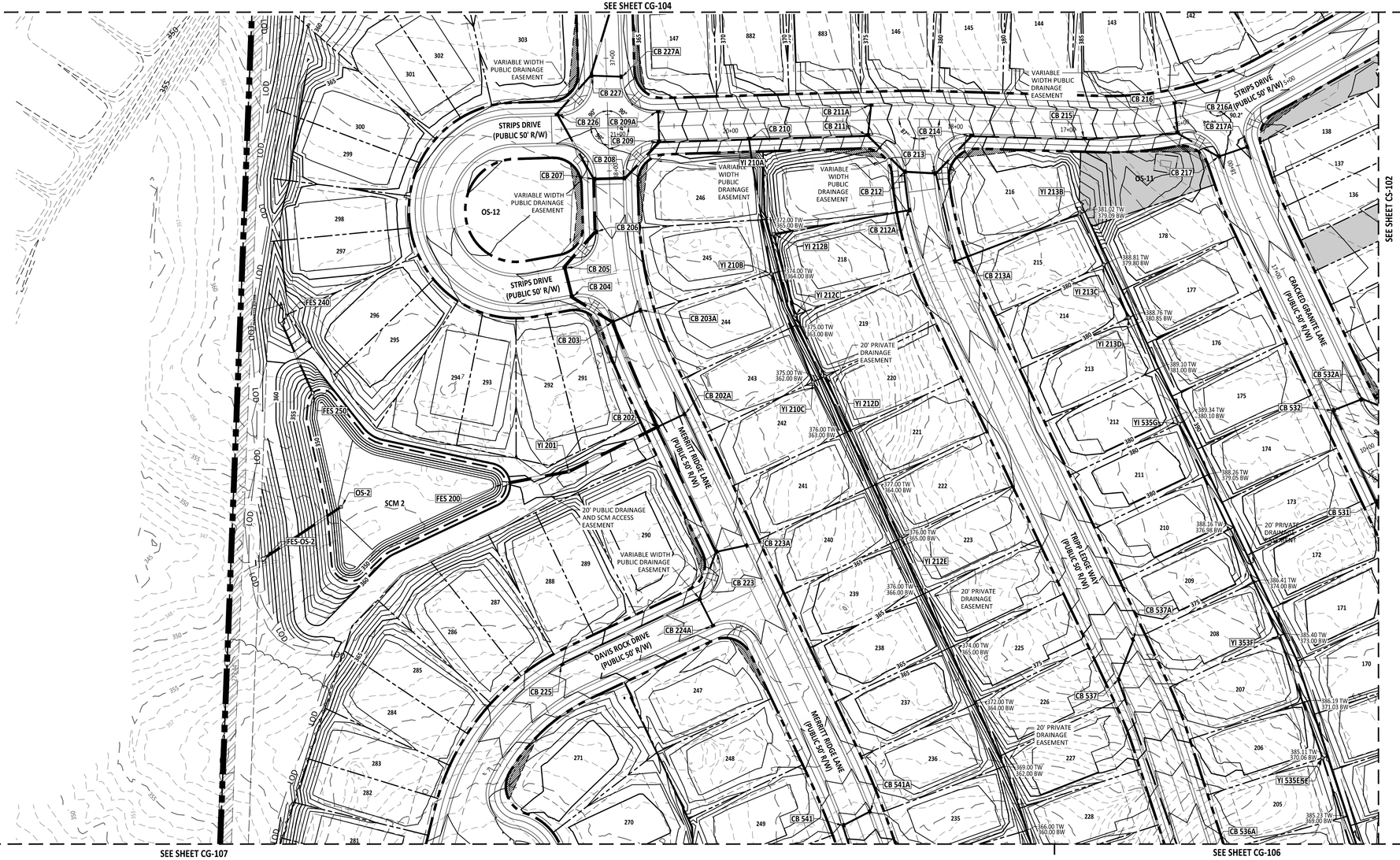
CG-104

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 (RFP)\Civil_Working Dwgs\Sheets\Construction Set\CG-104_CG-106 Grading and Drainage (50 Scale).dwg

2025-07-01





GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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Raleigh, NC 27607
919-469-1101

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

PRELIMINARY

NORTH CAROLINA REGISTERED 36528 ENGINEER JAYOR P. KLEIN

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FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET

STIPULATION FOR REUSE

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MERRITT RESERVE

GRADING AND DRAINAGE

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:

GRADING AND DRAINAGE

SHEET NO.:

CG-105

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 (BRP,Dwyl,..\Working Dwgs\Sheets\Construction Set\Sd_CG-104-106 Grading and Drainage (50 Scale).dwg

2025-07-01

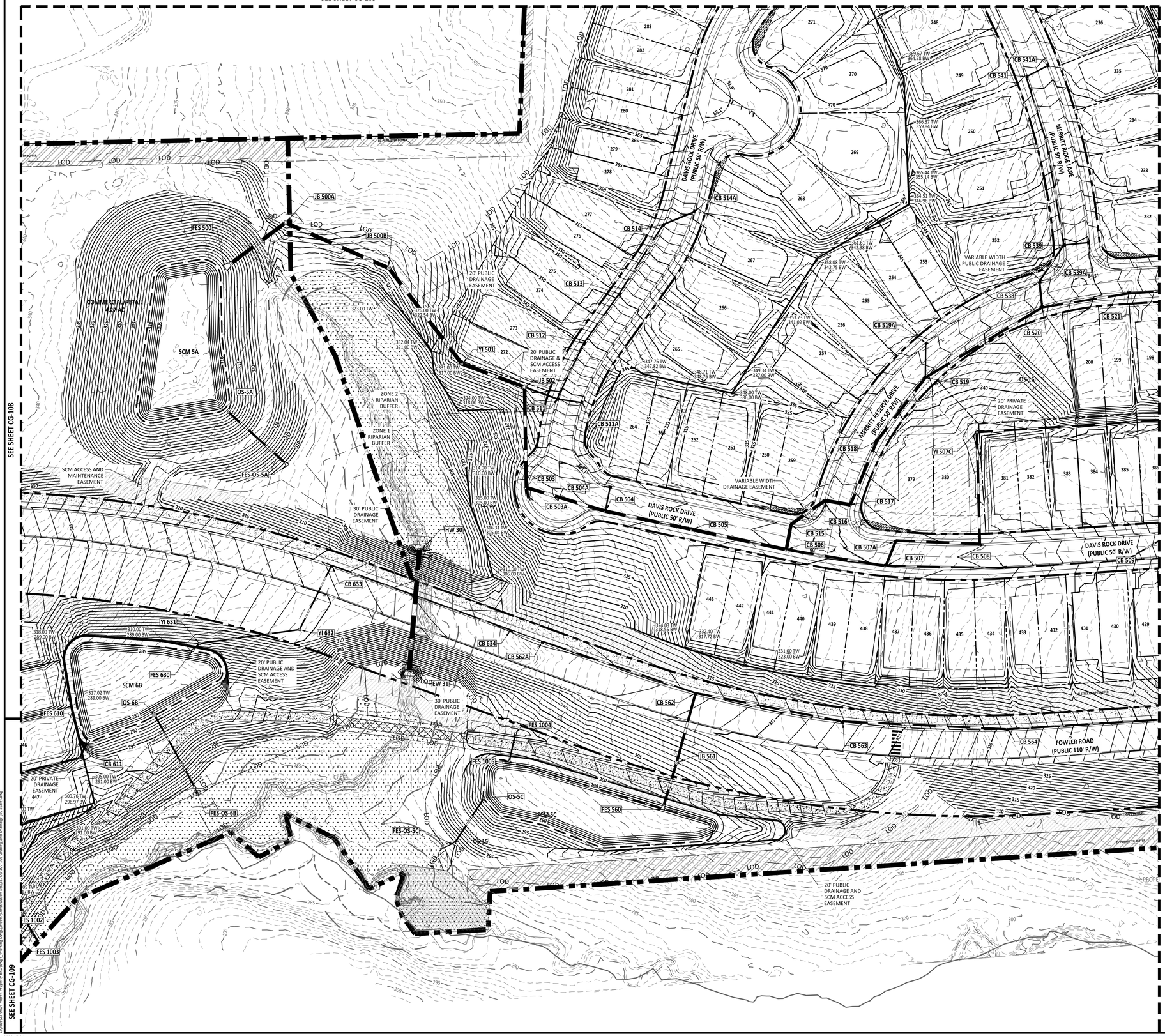

SEE SHEET CG-105
SEE SHEET CG-102
SEE SHEET CG-107
SEE SHEET CG-101
MERRITT RESERVE DRIVE (PUBLIC 50' R/W)
MERRITT RIDGE LANE (PUBLIC 50' R/W)
TRIPP LEDGE WAY (PUBLIC 50' R/W)
CRACKED ORANTE LANE (PUBLIC 50' R/W)
DOUND STREET (PUBLIC 60' R/W)
DAVIS ROCK DRIVE (PUBLIC 50' R/W)
FOWLER ROAD (PUBLIC 110' R/W)
VARIABLE WIDTH PUBLIC DRAINAGE EASEMENT
20' PRIVATE DRAINAGE EASEMENT
20' PUBLIC DRAINAGE EASEMENT
30' COR UTILITY EASEMENT
SCM 4
OS-1
OS-2
OS-4
OS-5
FES 400
LOD
CB 541A
CB 540
CB 539
CB 538
CB 520
CB 521
CB 522
CB 522A
CB 523
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YI 535D
YI 535C
YI 522B
YI 507F
YI 507E
YI 507D
YI 404A
JB 540
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362.00 BW
366.00 TW
360.00 BW
365.00 TW
357.00 BW
364.00 TW
353.00 BW
385.11 TW
370.06 BW
385.23 TW
369.00 BW
383.70 TW
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383.13 TW
366.65 BW
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357.00 BW
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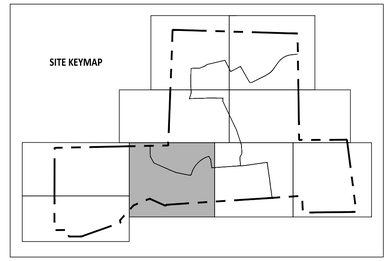
SEE SHEET CG-105

SEE SHEET CG-108

SEE SHEET CG-109

SEE SHEET CG-106





GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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

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

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

PRELIMINARY

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JAKOB P. KLEIN

DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET

STIPULATION FOR REUSE

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MERRITT RESERVE

GRADING AND DRAINAGE

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:

GRADING AND DRAINAGE

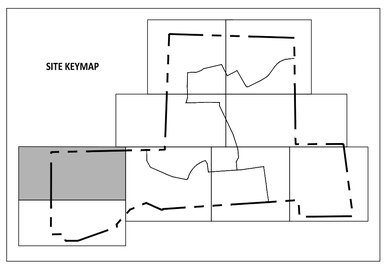
SHEET NO.:

CG-107

Z:\Jobs\23-0004 Merritt Property BRD\Dwg_Working Dwgs\5-Sheet\Construction Set\CG_CG-107-109 Grading and Drainage (50 Scale).dwg
2025-07-01



SITE KEYMAP



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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

AMERICAN Engineering
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919-469-1101

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MERRITT RESERVE

GRADING AND DRAINAGE

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:

GRADING AND DRAINAGE

SHEET NO.:

CG-108

Z:\Jobs\23-0004 Merritt Property @RD\Revit_Working Dwgs\Sheets\Construction Set\CG -107-109 Grading and Drainage (50 Scale).dwg

2025-07-01

SEE SHEET CG-108

SEE SHEET CG-107

FOWLER ROAD (PUBLIC 110' R/W)

SUTTON RIDGE ROAD (PUBLIC 50' R/W)

FETCHING RIDGE (PUBLIC 60' R/W)

1% ANNUAL FEMA FLOOD LIMIT ZONE "AE" MAP # 3720-1768-00K DATED JULY 19, 2022

0.1% ANNUAL FEMA FLOODWAY

EXISTING 20' R / EASEMENT 1992, PG. 698

WETLAND (TYP)

SWAMP

POND

VARIABLE WIDTH DRAINAGE EASEMENT

20' PRIVATE DRAINAGE EASEMENT

20' PUBLIC DRAINAGE AND SCM ACCESS EASEMENT

ZONE 2 RIPARIAN BUFFER

ZONE 1 RIPARIAN BUFFER

SITE KEYMAP

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
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MERRITT RESERVE

GRADING AND DRAINAGE

ROLESVILLE RD
WAKE COUNTY NC 27312

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DATE:	05/01/2025

SHEET TITLE:

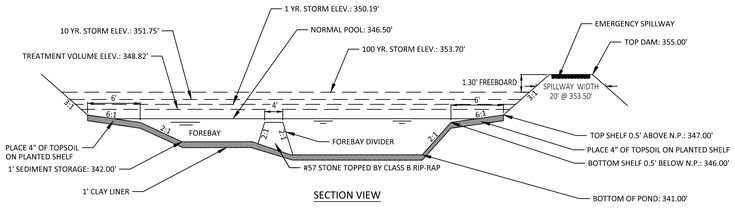
GRADING AND DRAINAGE

SHEET NO.:

CG-109

Z:\Jobs\23-0004 Merritt Property BRT\Revit_Working Dwgs\Sheets\Construction Set\SS_CG-107-109 Grading and Drainage (SS Scale).dwg

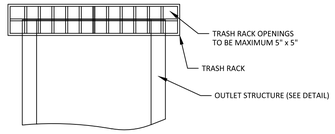
2025-07-01



SECTION VIEW

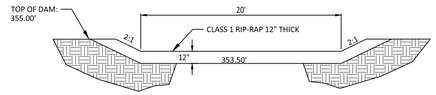
NOTES:
1. SEE SHEET 2.0 FOR SCM CONVERSION SEQUENCE.
2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.

RETENTION POND
NTS

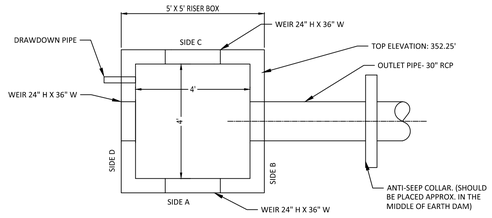


NOTES:
1. TRASH RACK SHALL BE 6" CLEAR OF STRUCTURE TOP AND SIDES. THE TRASH RACK NEED NOT COVER THE TREATMENT OUTLET PIPE.
2. TRASH RACK SHALL BE FASTENED TO EACH SIDE OF THE STRUCTURE AT AT LEAST 2 POINTS. IT SHALL BE EASILY REMOVED FOR MAINTENANCE OR ENTRY INTO THE STRUCTURE.
3. TRASH RACK SHALL ACCOMMODATE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

TRASH RACK
NTS

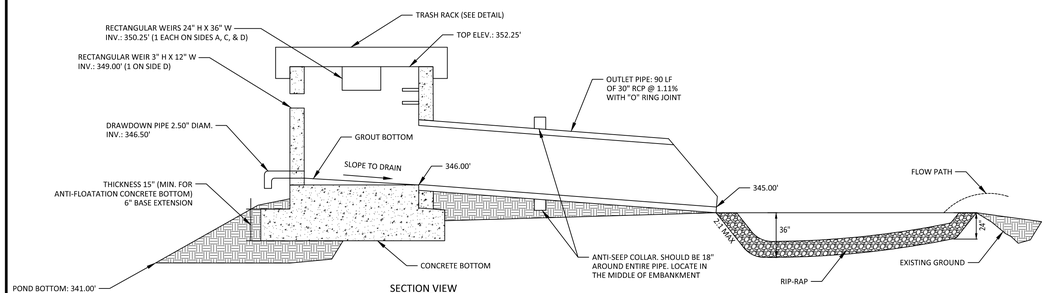


EMERGENCY SPILLWAY SECTION
NTS



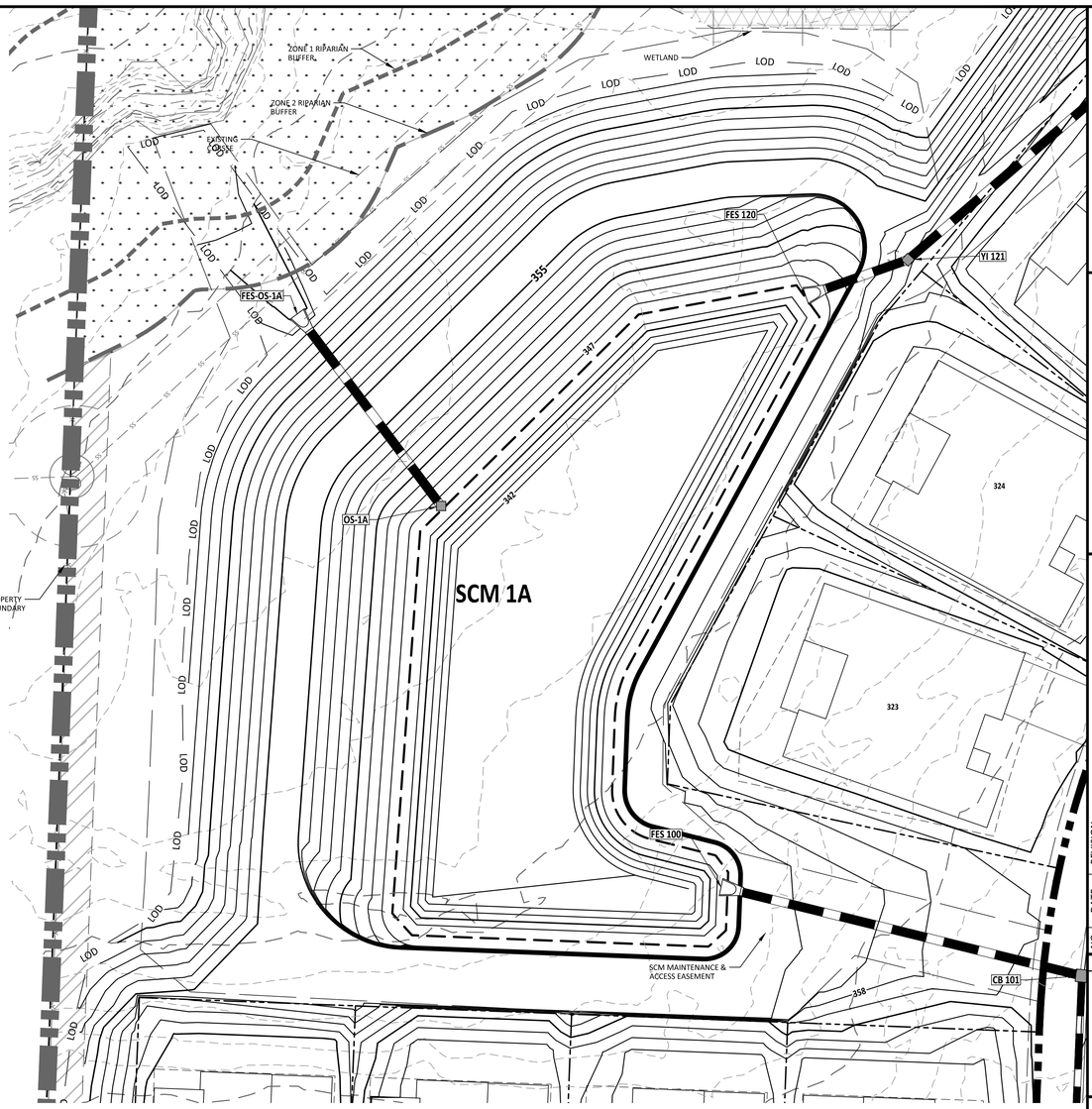
PLAN VIEW

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



SECTION VIEW

OUTLET STRUCTURE 1A
NTS



SCM 1A PLAN VIEW

GRAPHIC SCALE
30 0 10 20 40 80
(IN FEET)
1 inch = 20

PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF (HERB.)

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

LANDSCAPE PLAN:

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

CALCULATION: 50 PLANTS PER 200 SF

PROJECT NUMBER = CID-25-02

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

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

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

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET

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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:

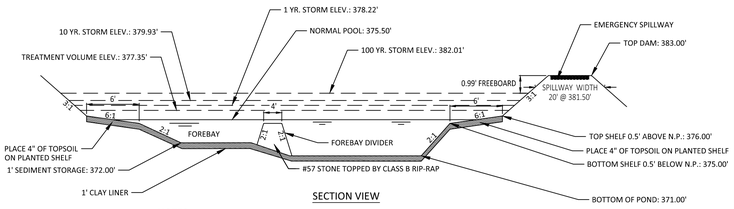
SCM 1A DETAIL

SHEET NO.:

CG-401

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

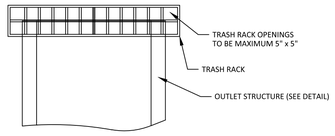
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2025-07-01



SECTION VIEW

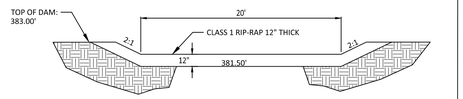
NOTES:
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2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.

RETENTION POND
NTS

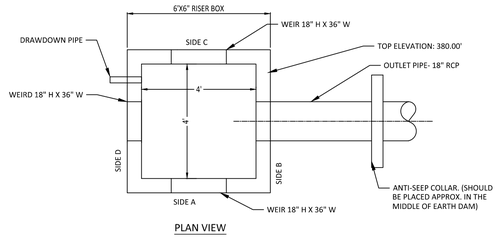


NOTES:
1. TRASH RACK SHALL BE 6" CLEAR OF STRUCTURE TOP AND SIDES. THE TRASH RACK NEED NOT COVER THE TREATMENT OUTLET PIPE.
2. TRASH RACK SHALL BE FASTENED TO EACH SIDE OF THE STRUCTURE AT AT LEAST 2 POINTS. IT SHALL BE EASILY REMOVED FOR MAINTENANCE OR ENTRY INTO THE STRUCTURE.
3. TRASH RACK SHALL ACCOMMODATE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

TRASH RACK
NTS

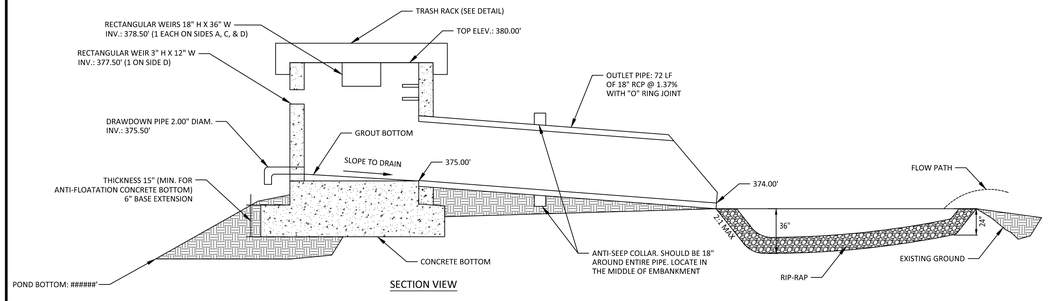


EMERGENCY SPILLWAY SECTION
NTS



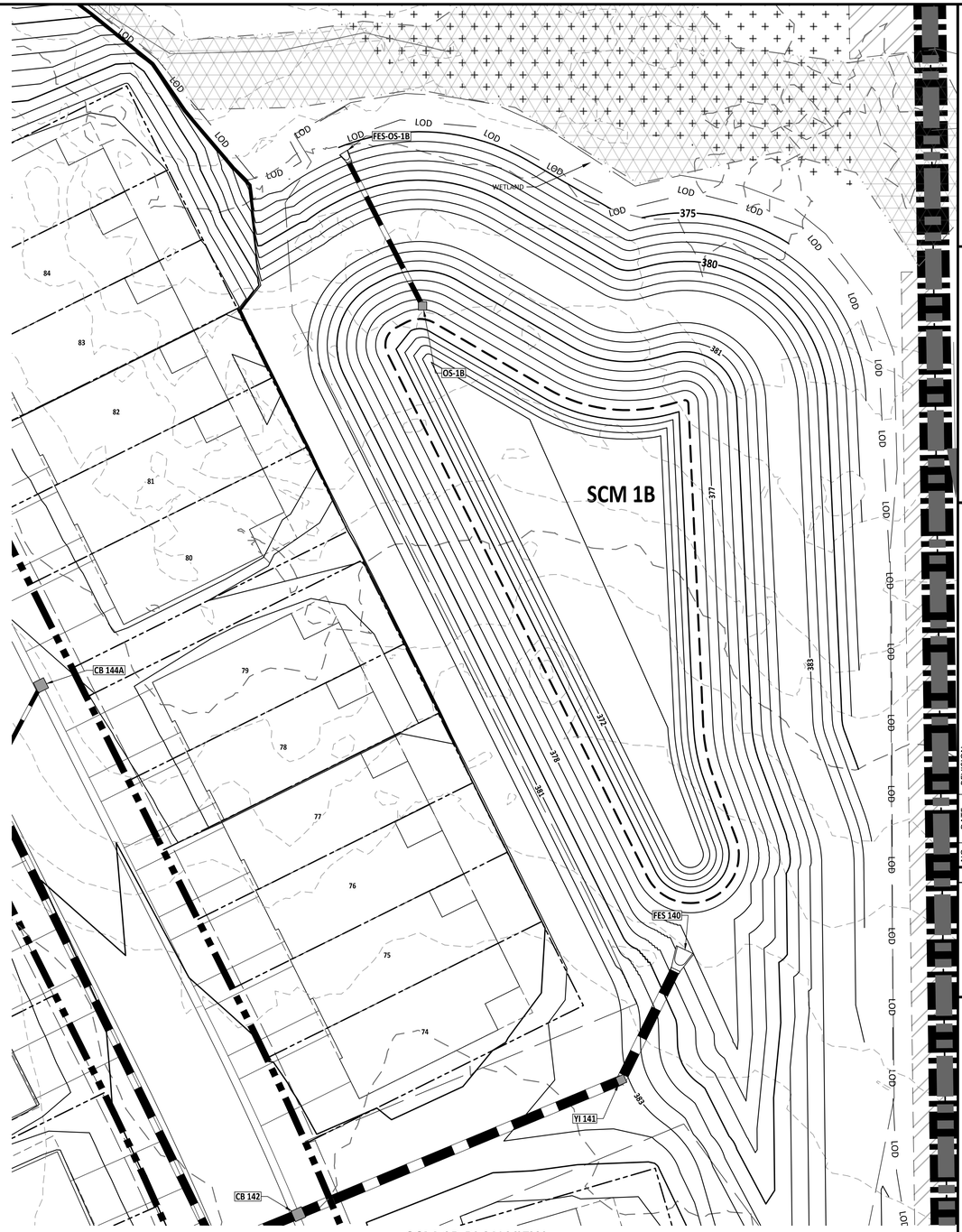
PLAN VIEW

NOTES:
1. WALL THICKNESS AND REINFORCEMENT TO BE DETERMINED BY PRECAST CONCRETE MANUFACTURER.
2. OUTLET STRUCTURE ELEVATIONS SHOWN ON THE DETAILS ON THIS SHEET ARE CRITICAL AND MUST BE WITHIN 0.02' OF THAT SHOWN. IF OUTLET STRUCTURES ARE PRE-CAST OFF-SITE, THE HOLE FOR THE OUTLET PIPE SHALL BE ENLARGED TO ALLOW UP TO 0.3' OF VERTICAL MOVEMENT. WHEN INSTALLED, THE EXCESS OPENING SHALL BE FILLED WITH GROUT.
3. OUTLET PIPES SHALL HAVE AN ANTI-SEEP COLLAR OF CONCRETE LOCATED APPROXIMATELY UNDER THE MIDDLE OF THE DAM IN WHICH IT IS LOCATED. IT SHALL CONSIST OF CONCRETE POURED AROUND THE PIPE IN A VERTICAL DIRECTION. THE COLLAR SHALL BE A SQUARE 8" THICK AND SHALL EXTEND 18" BEYOND THE OUTSIDE OF THE PIPE IN EACH DIRECTION.
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SECTION VIEW

OUTLET STRUCTURE
NTS



SCM 1B PLAN VIEW

PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

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

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USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF

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

PROJECT NUMBER = CID-25-02

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER 36528 JAKOB P. KLEIN
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MERRITT RESERVE
SCM 1B DETAIL
ROLESVILLE RD
WAKE COUNTY NC 27312

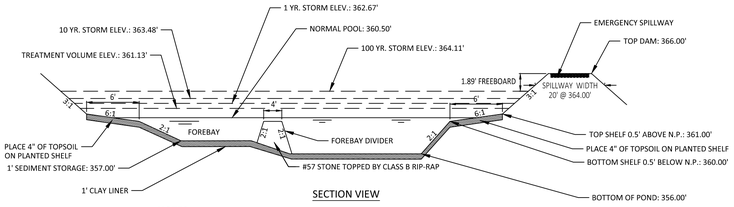
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DATE:	05/01/2025

SHEET TITLE:
SCM 1B DETAIL

SHEET NO.:
CG-402

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

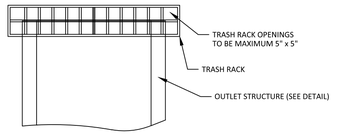
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2025-07-01



SECTION VIEW

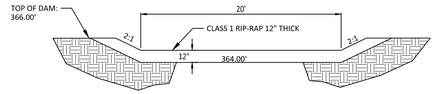
NOTES:
1. SEE SHEET 2.0 FOR SCM CONVERSION SEQUENCE.
2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.

RETENTION POND
NTS

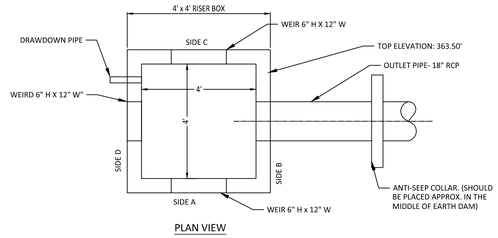


NOTES:
1. TRASH RACK SHALL BE 6" CLEAR OF STRUCTURE TOP AND SIDES. THE TRASH RACK NEED NOT COVER THE TREATMENT OUTLET PIPE.
2. TRASH RACK SHALL BE FASTENED TO EACH SIDE OF THE STRUCTURE AT AT LEAST 2 POINTS. IT SHALL BE EASILY REMOVED FOR MAINTENANCE OR ENTRY INTO THE STRUCTURE.
3. TRASH RACK SHALL ACCOMMODATE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

TRASH RACK
NTS

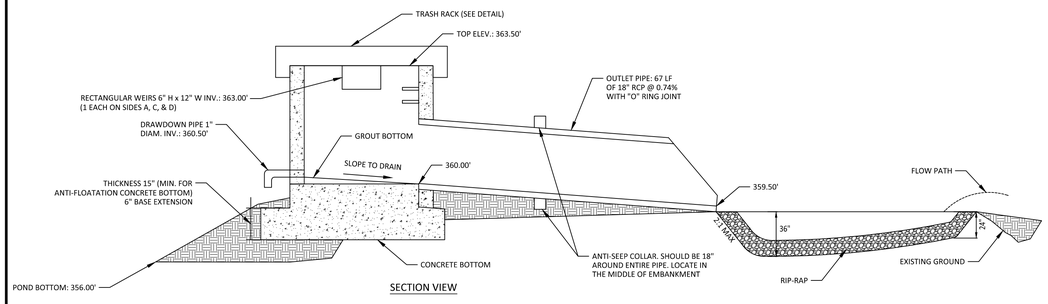


EMERGENCY SPILLWAY SECTION
NTS



PLAN VIEW

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



SECTION VIEW

OUTLET STRUCTURE #1C
NTS

SCM 1C PLAN VIEW

PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF
(HERB.)

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

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

CALCULATION: 50 PLANTS PER 200 SF

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

PROJECT NUMBER = CID-25-02

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 ENGINEER JAKOB P. KLEIN
FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET

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.

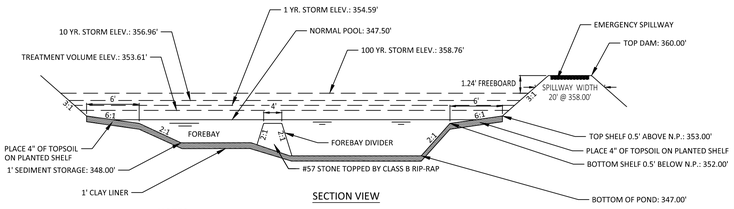
MERRITT RESERVE
SCM 1C DETAIL
ROLESVILLE RD
WAKE COUNTY NC 27312

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

SHEET TITLE:
SCM 1C DETAIL

SHEET NO.:
CG-403

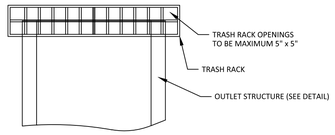
North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
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SECTION VIEW

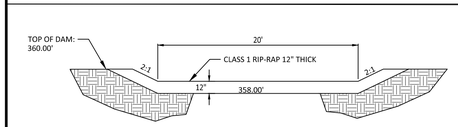
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RETENTION POND
NTS

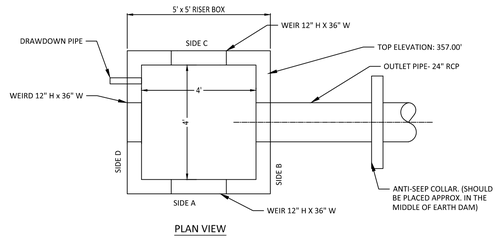


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TRASH RACK
NTS

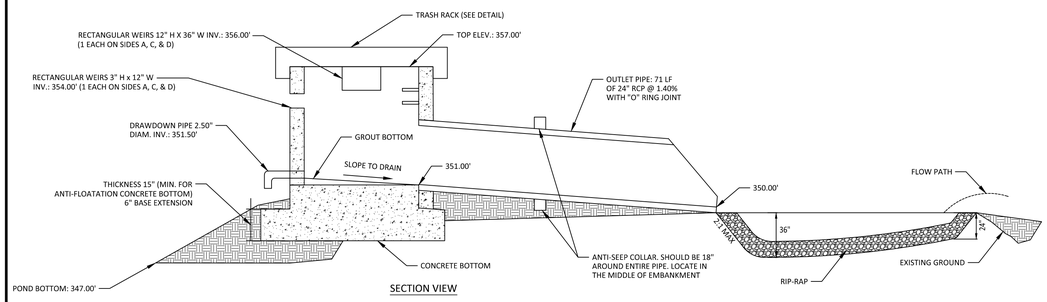


EMERGENCY SPILLWAY SECTION
NTS



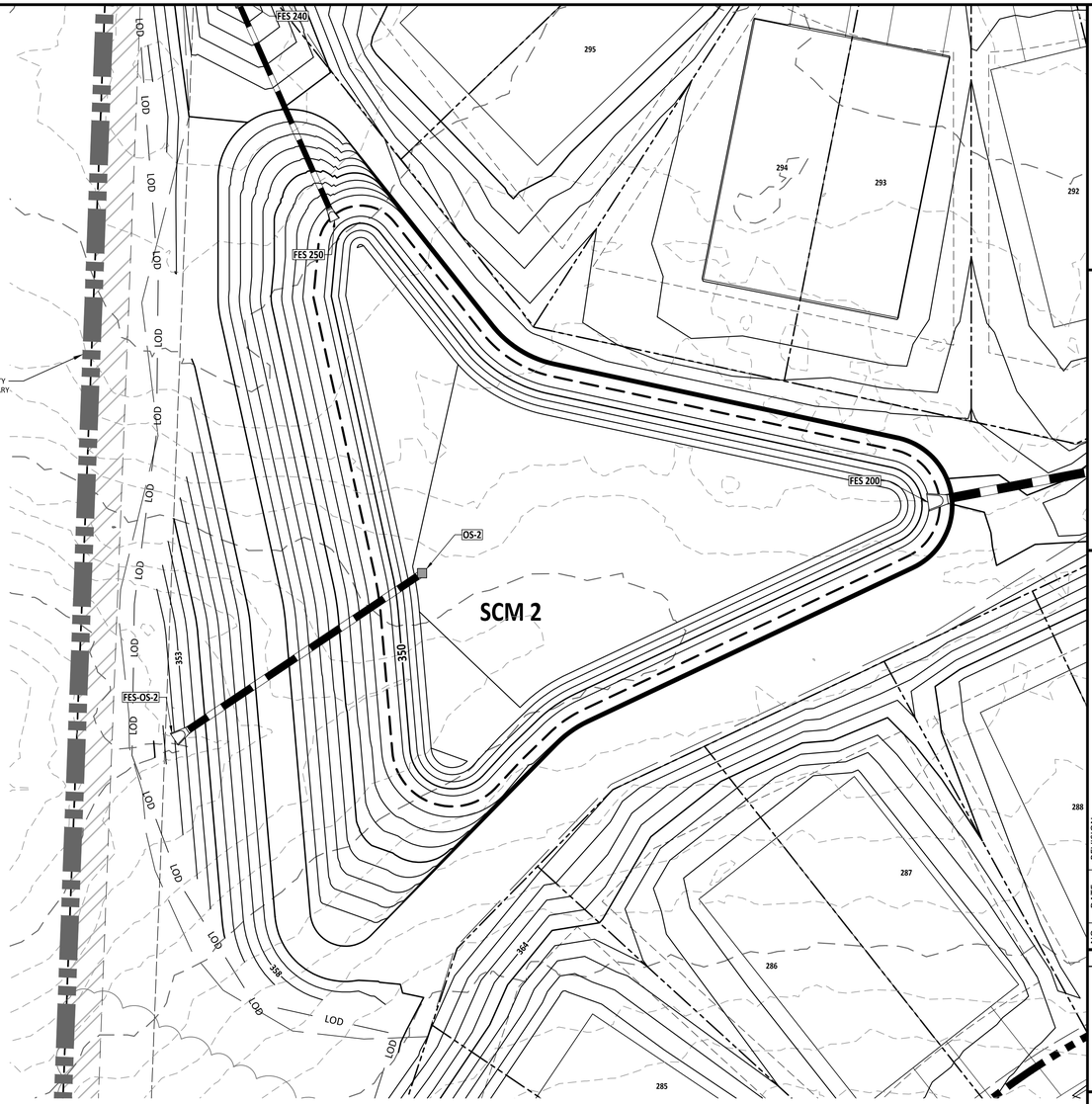
PLAN VIEW

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SECTION VIEW

OUTLET STRUCTURE 2
NTS



SCM 2 PLAN VIEW

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20

PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF
(HERB.)

EF	EUPATORUIM FISTRULOSUM	JOE PYE WEED	4-6" POT @ 3' SPACING
HC	HIBICUS COCCINEA	SCARLET ROSE MALLOW	4-6" POT @ 3' SPACING
CG	CHELONE GLABRA	WHITE TURTLEHEAD	4-6" POT @ 3' SPACING
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LANDSCAPE PLAN:

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

CALCULATION: 50 PLANTS PER 200 SF

PROJECT NUMBER = CID-25-02

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
NOT FOR CONSTRUCTION
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA REGISTERED 36528 ENGINEER JAKOB P. KLEIN

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET

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MERRITT RESERVE

SCM 2 DETAIL

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:

SCM 2 DETAIL

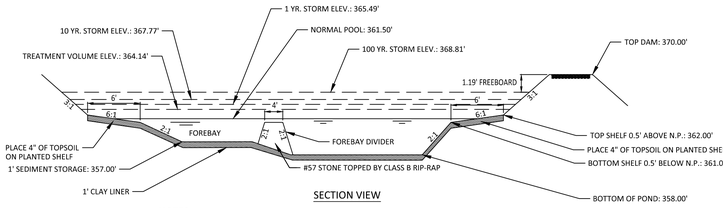
SHEET NO.:

CG-404

North Carolina 811 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
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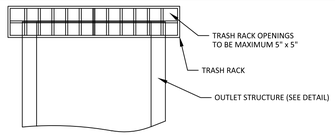
2025-07-01



SECTION VIEW

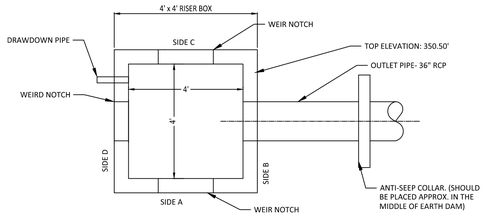
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RETENTION POND
NTS



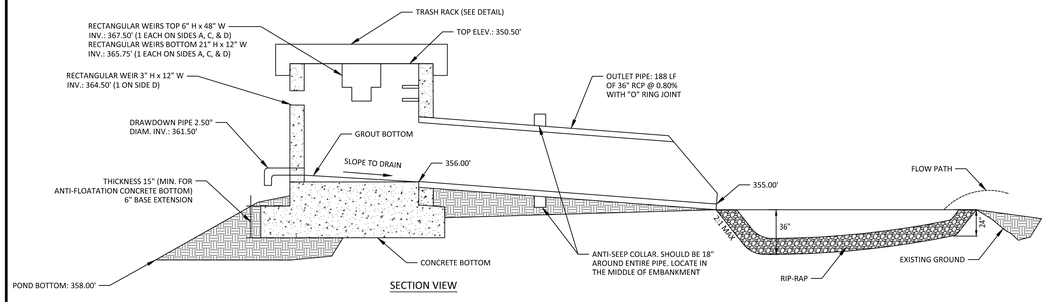
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TRASH RACK
NTS



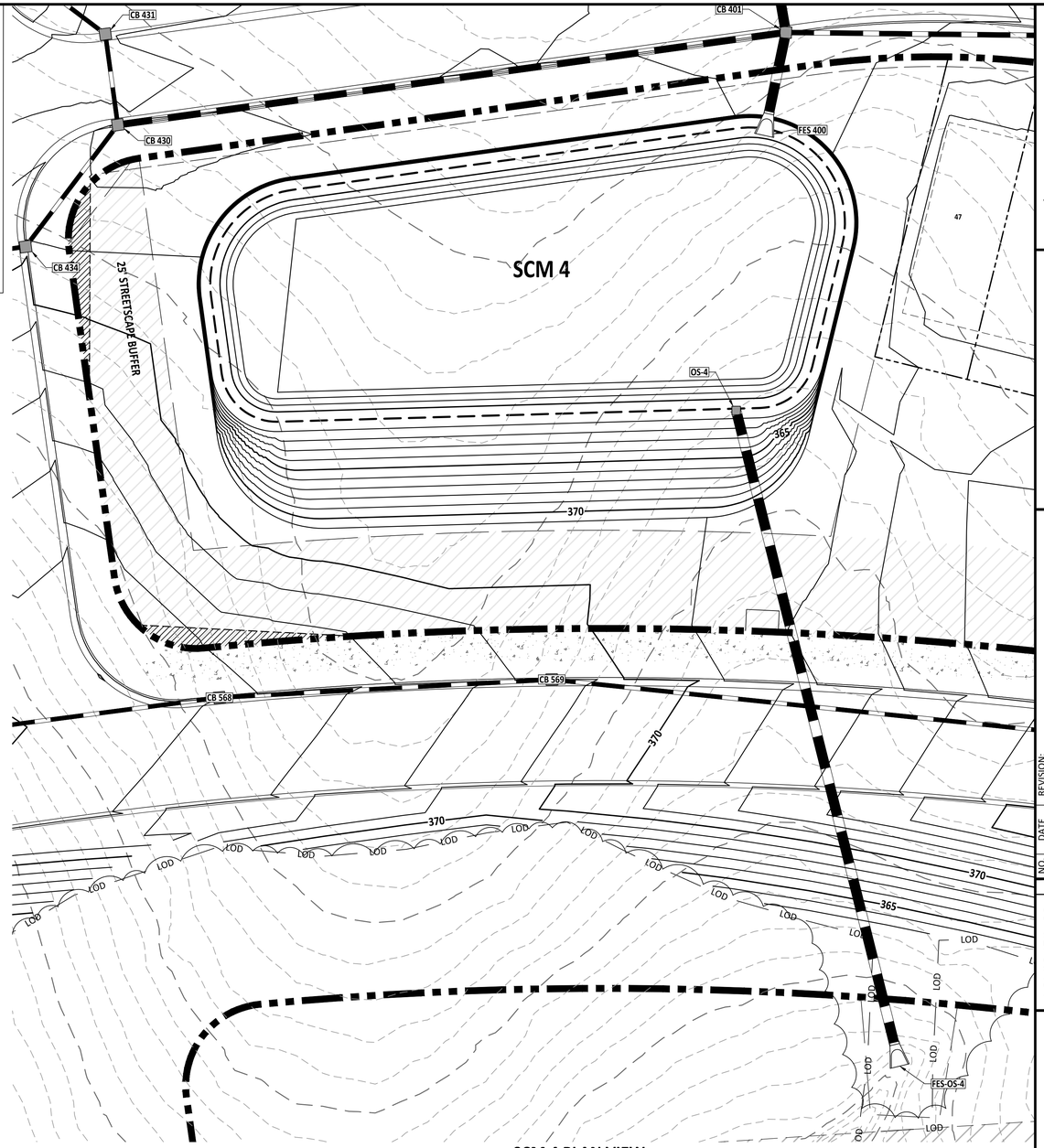
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SECTION VIEW

OUTLET STRUCTURE 4
NTS



SCM 4 PLAN VIEW

PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF
(HERB.)

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

LANDSCAPE PLAN:

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

CALCULATION: 50 PLANTS PER 200 SF

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

PROJECT NUMBER = CID-25-02

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

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

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

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET

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MERRITT RESERVE
ROLESVILLE RD
WAKE COUNTY NC 27312

SCM 4 DETAIL

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

SHEET TITLE:

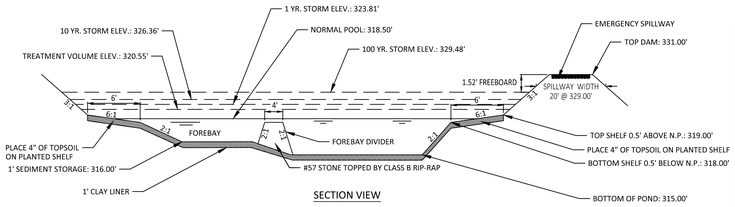
SCM 4 DETAIL

SHEET NO.:

CG-405

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

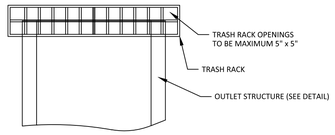
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2025-07-02



SECTION VIEW

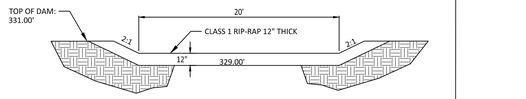
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RETENTION POND
NTS

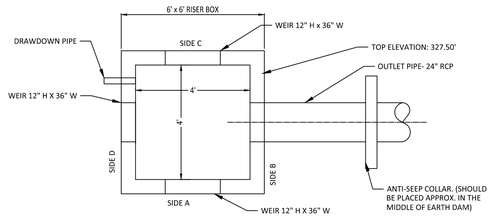


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TRASH RACK
NTS

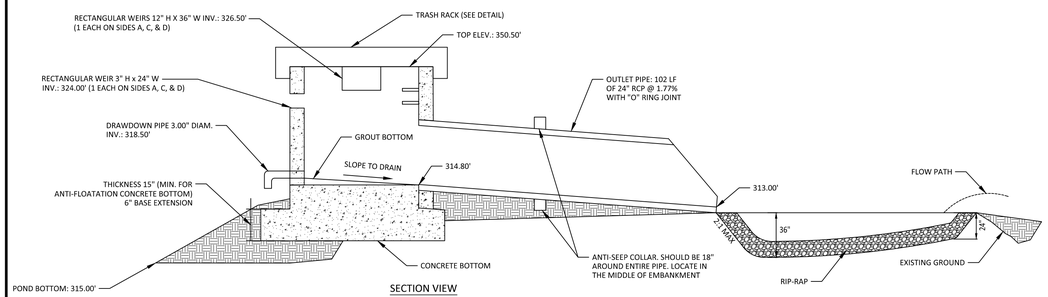


EMERGENCY SPILLWAY SECTION
NTS



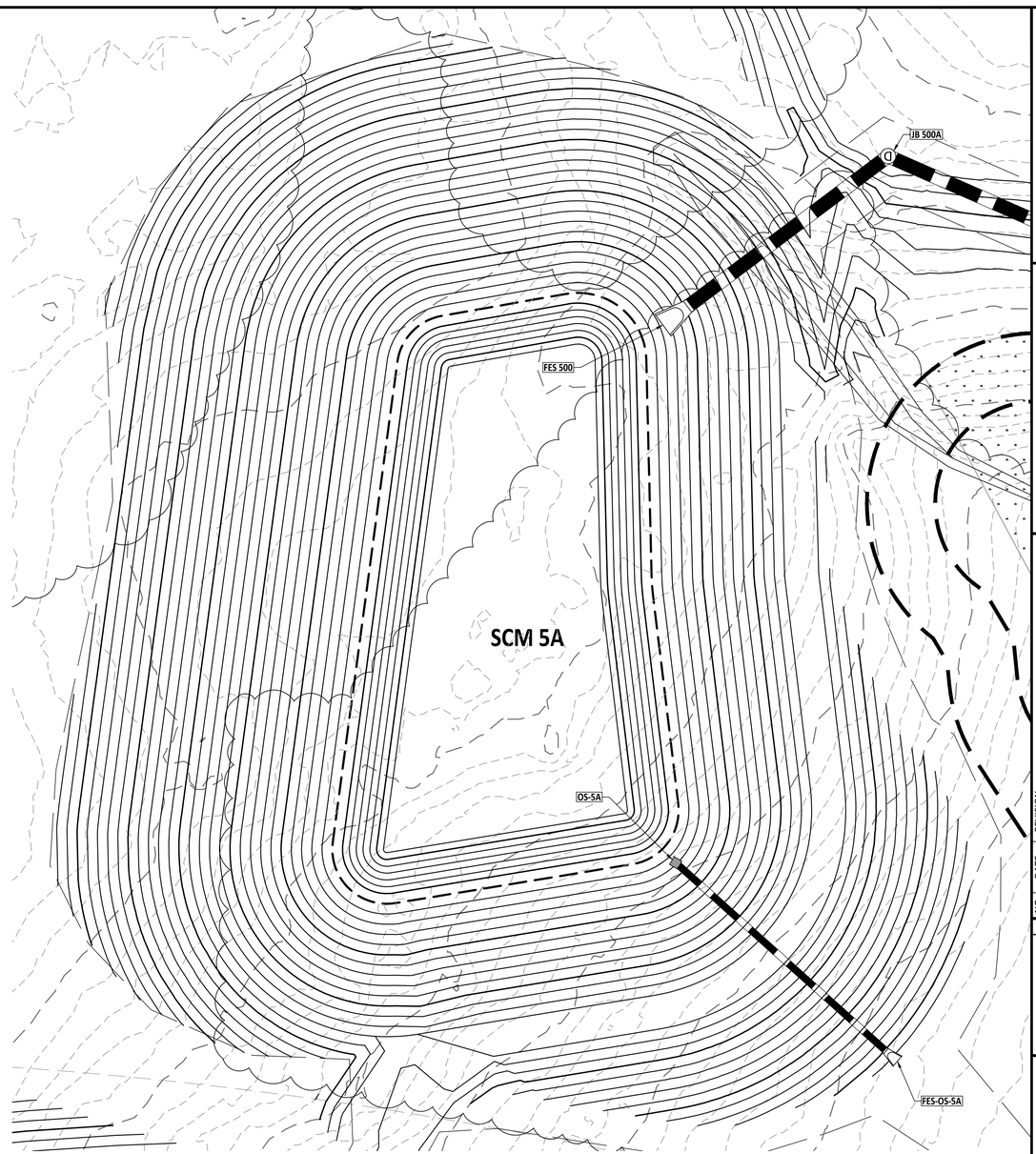
PLAN VIEW

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SECTION VIEW

OUTLET STRUCTURE 5A
NTS



SCM 5A PLAN VIEW

PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF
(HERB.)

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

LANDSCAPE PLAN:

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

CALCULATION: 50 PLANTS PER 200 SF

GRAPHIC SCALE

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(IN FEET)
1 inch = 20

PROJECT NUMBER = CID-25-02

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

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

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

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET

STIPULATION FOR REUSE

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MERRITT RESERVE
SCM 5A DETAIL
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

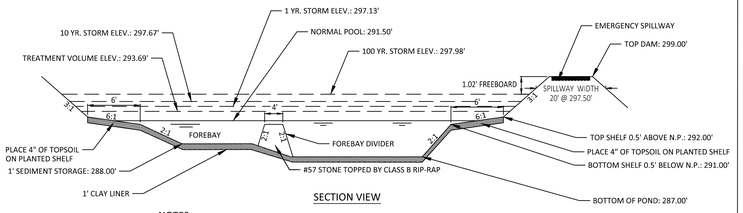
SHEET TITLE:

SCM 5A DETAIL

SHEET NO.:
CG-406

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

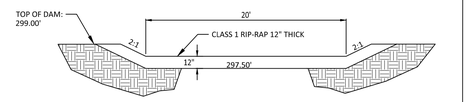
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2025-07-02



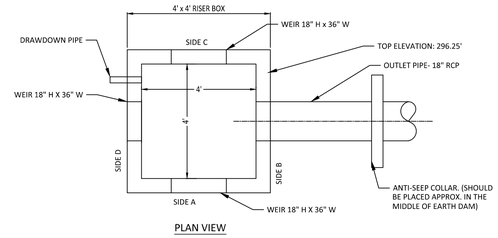
SECTION VIEW

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

RETENTION POND
NTS

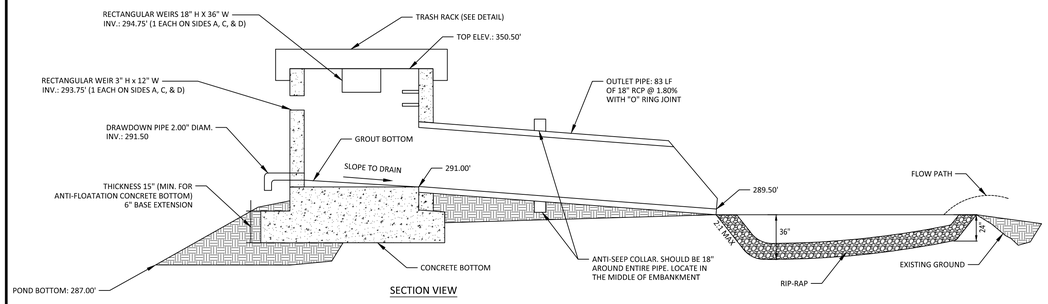


EMERGENCY SPILLWAY SECTION
NTS



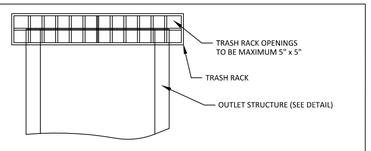
PLAN VIEW

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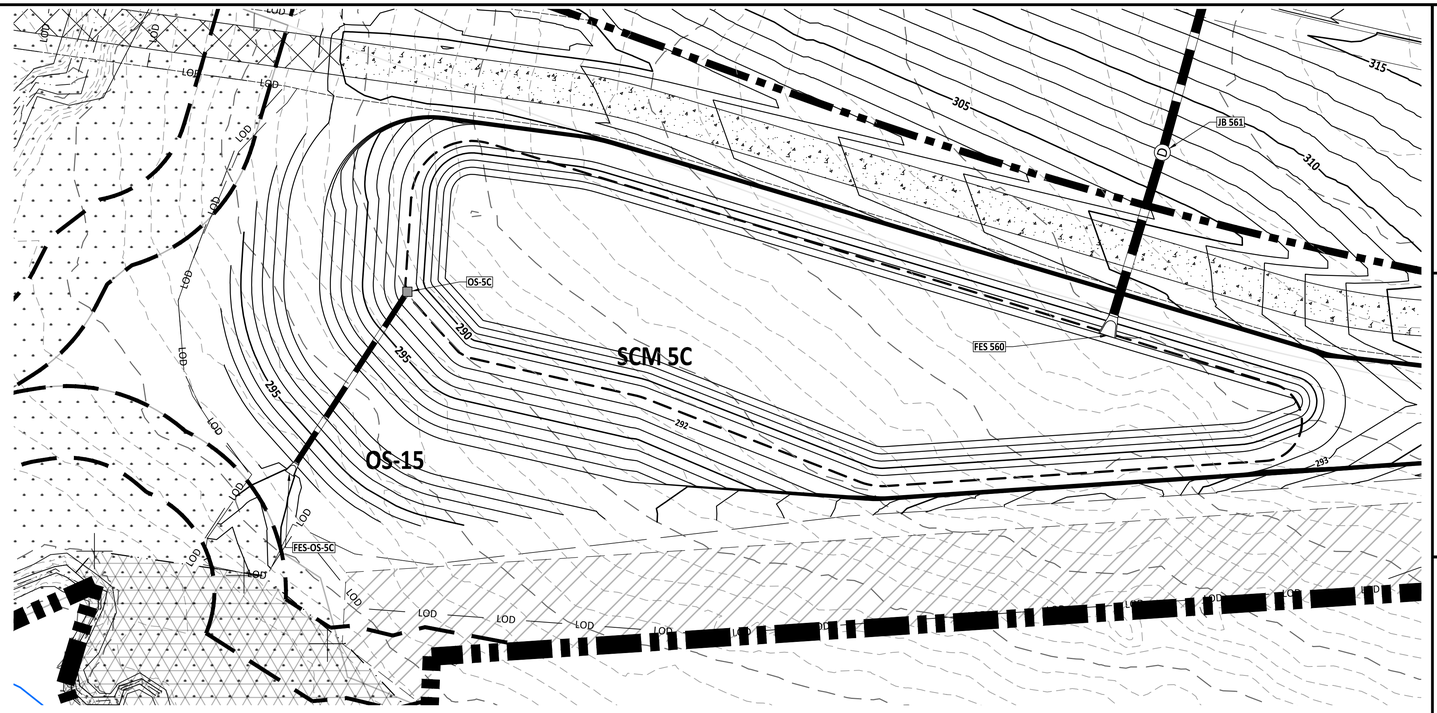
SECTION VIEW

OUTLET STRUCTURE 5C
NTS



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

TRASH RACK
NTS



SCM 5C PLAN VIEW

PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF (HERB.)

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

LANDSCAPE PLAN:

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

CALCULATION: 50 PLANTS PER 200 SF

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20

PROJECT NUMBER = CID-25-02

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

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

PRELIMINARY
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NORTH CAROLINA REGISTERED 36528 ENGINEER JAKOB P. KLEE
FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET

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MERRITT RESERVE

SCM 5C DETAIL

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:

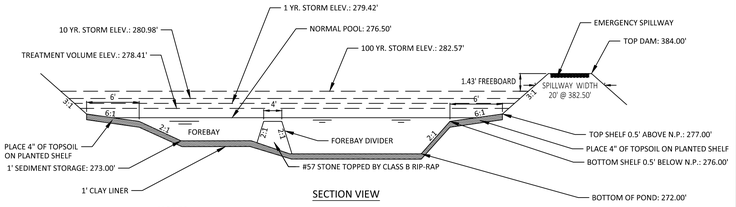
SCM 5C DETAIL

SHEET NO.:

CG-407

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

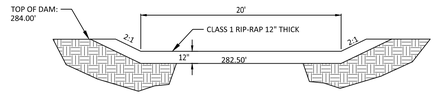
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2025-07-01



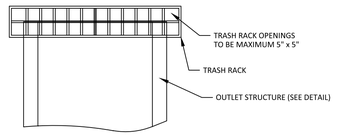
SECTION VIEW

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RETENTION POND
NTS

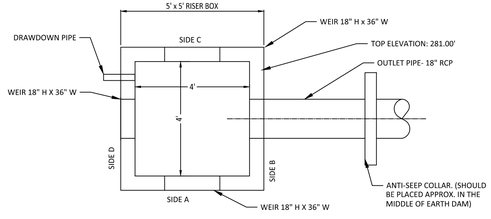


EMERGENCY SPILLWAY SECTION
NTS



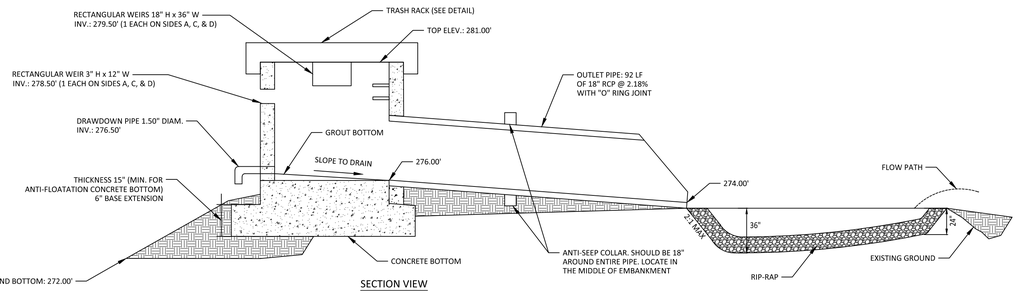
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TRASH RACK
NTS



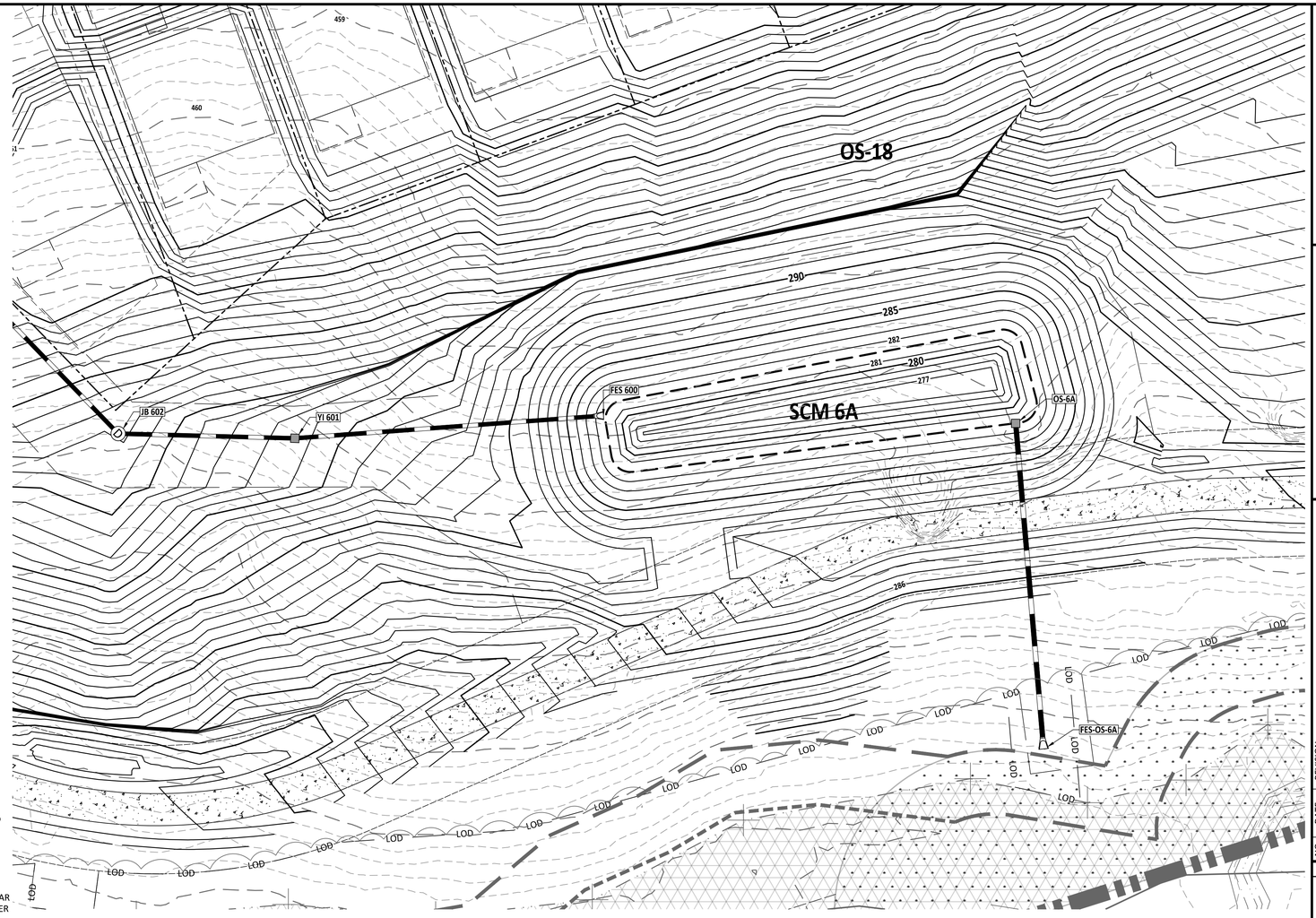
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SECTION VIEW

OUTLET STRUCTURE 6A
NTS



SCM 6A PLAN VIEW

PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF
(HERB.)

EF	EUPATORUIM FISTRULOSUM	JOE PYE WEED	4-6" POT @ 3' SPACING
HC	HIBICUS COCCINEA	SCARLET ROSE MALLOW	4-6" POT @ 3' SPACING
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USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

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GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20

PROJECT NUMBER = CID-25-02

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AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

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36528
JAKOB P. KLEIN
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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:

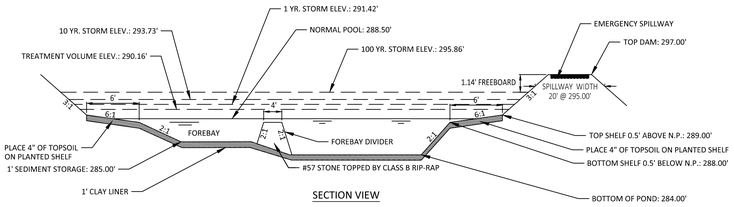
SCM 6A DETAIL

SHEET NO.:

CG-408

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

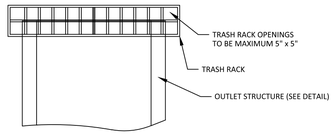
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2025-07-01



SECTION VIEW

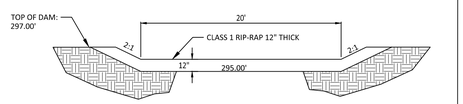
NOTES:
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RETENTION POND
NTS

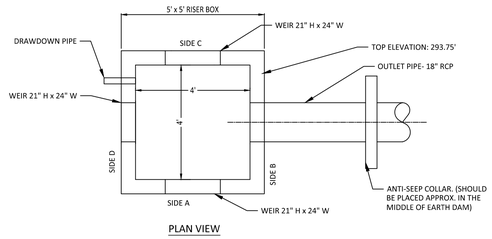


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TRASH RACK
NTS

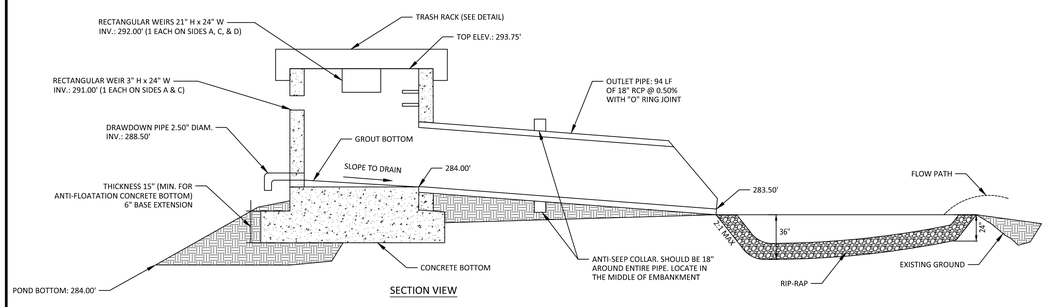


EMERGENCY SPILLWAY SECTION
NTS



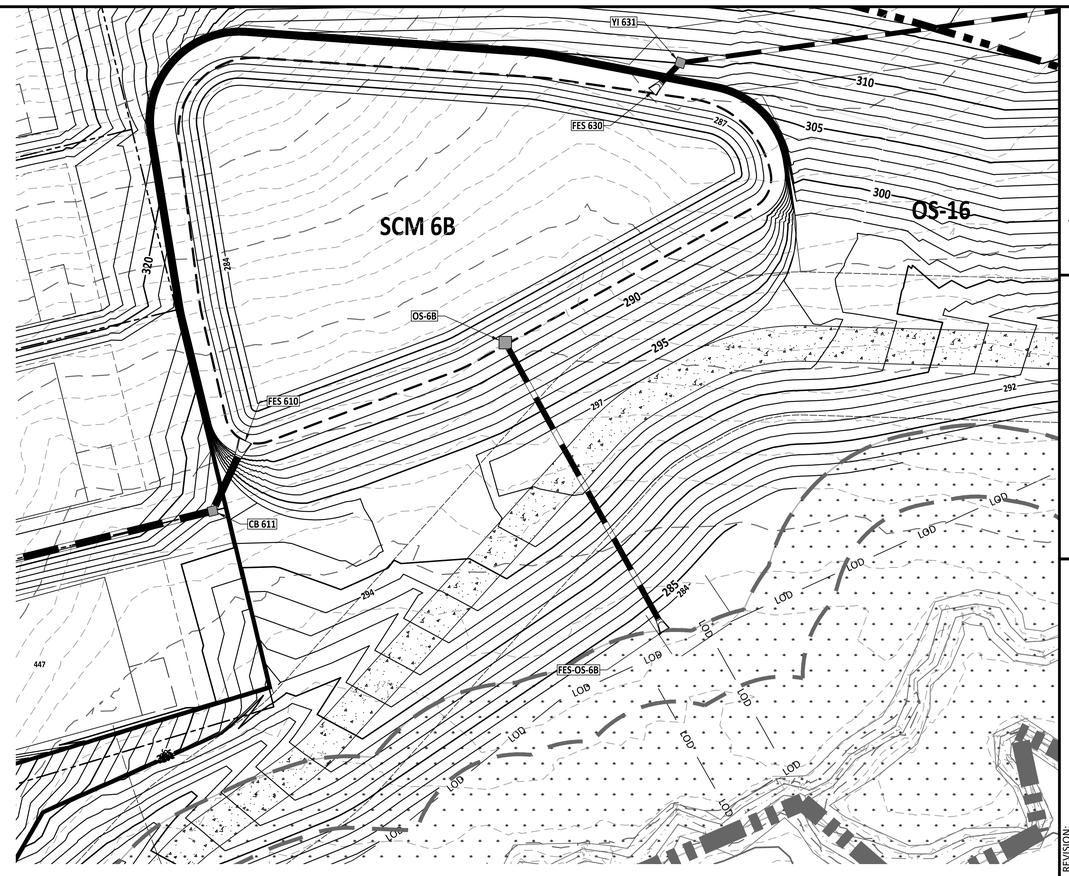
PLAN VIEW

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SECTION VIEW

OUTLET STRUCTURE 6B
NTS



SCM 6B PLAN VIEW

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

PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF
(HERB.)

EF	EUPATORUIM FISTRULOSUM	JOE PYE WEED	4-6" POT @ 3' SPACING
HC	HIBICUS COCCINEA	SCARLET ROSE MALLOW	4-6" POT @ 3' SPACING
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USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF

PROJECT NUMBER = CID-25-02

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

NORTH CAROLINA BOARD OF EXAMINERS FOR ENGINEERING AND SURVEYING CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881

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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER 36528 TAYLOR P. KLEIN
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SCM 6B DETAIL
ROLESVILLE RD
WAKE COUNTY NC 27312

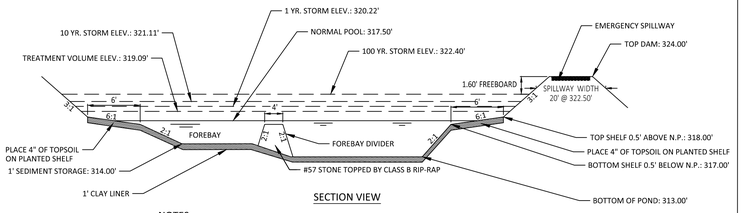
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
SCM 6B DETAIL

SHEET NO.:
CG-409

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

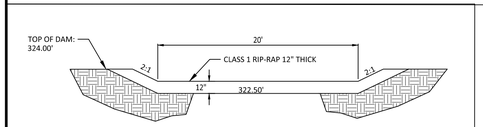
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2025-07-01



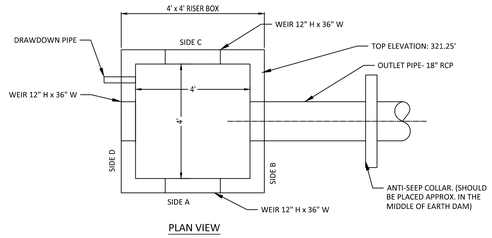
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NOTES:
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NTS

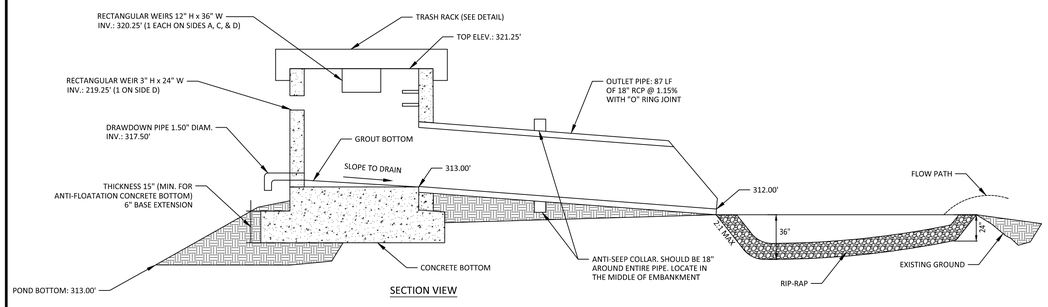


EMERGENCY SPILLWAY SECTION
NTS



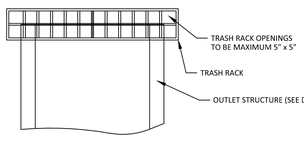
PLAN VIEW

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



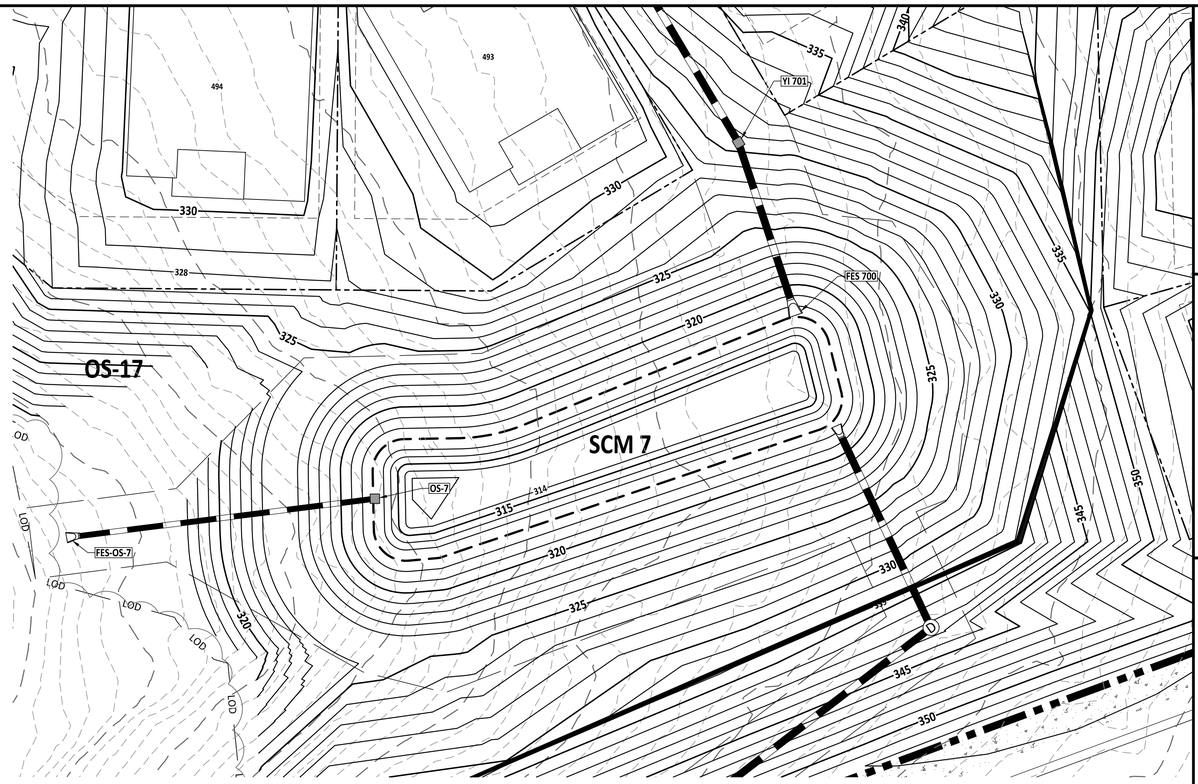
SECTION VIEW

OUTLET STRUCTURE 7
NTS



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

TRASH RACK
NTS



SCM 7 PLAN VIEW

PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF
(HERB.)

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

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

CALCULATION: 50 PLANTS PER 200 SF

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

PROJECT NUMBER = CID-25-02

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 REGISTERED PROFESSIONAL ENGINEER 36528 JAKOB P. KLEIN
FOR INFORMATION, ONLY

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MERRITT RESERVE
SCM 7 DETAIL
ROLESVILLE RD
WAKE COUNTY NC 27312

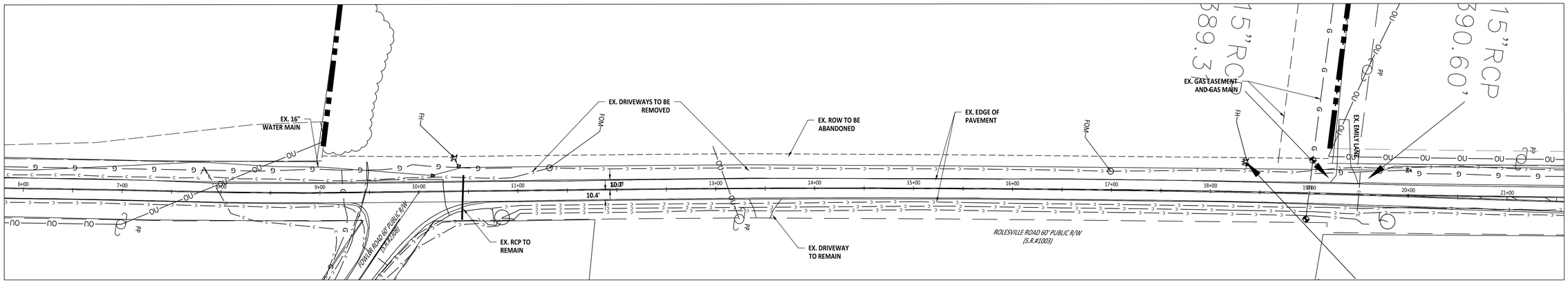
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
SCM 7 DETAIL

SHEET NO.:
CG-410

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 (BRD)\Dwg_Working Dwgs\Sheets\Construction Set\SCM 7 Detail.dwg
2025-07-01

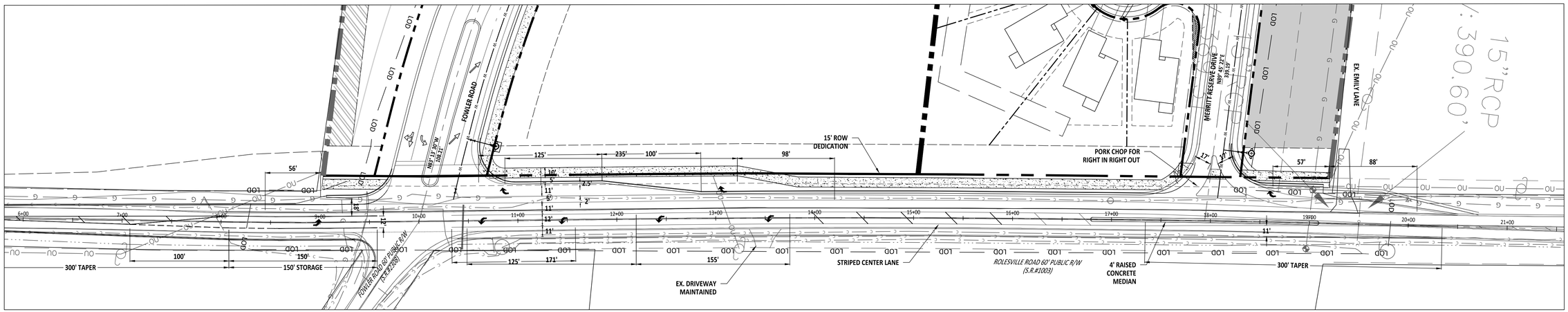


EXISTING CONDITIONS

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft



IMPROVEMENTS

PROJECT NUMBER = CID-25-02

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

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PRELIMINARY

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JAKOB P. KLEIN

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MERRITT RESERVE

ROLESVILLE ROAD IMPROVEMENT 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

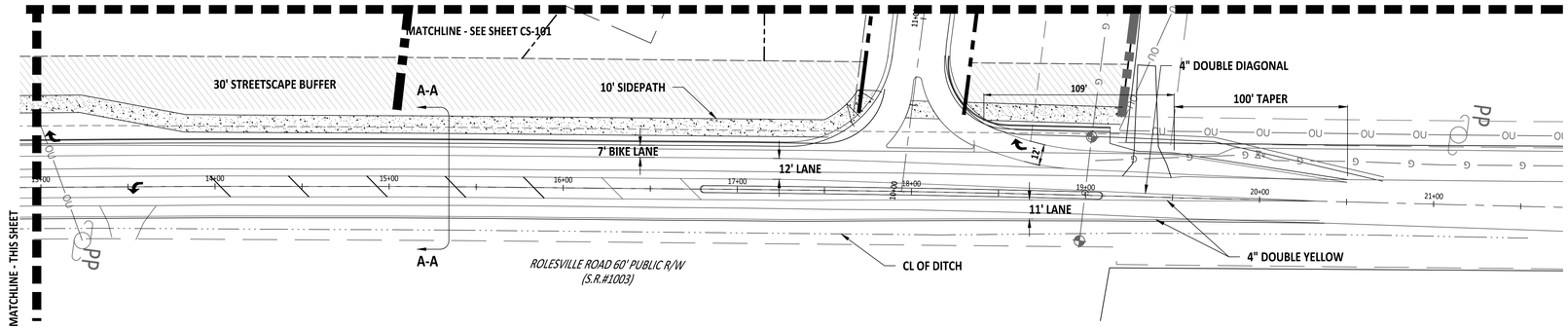
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ROLESVILLE ROAD IMPROVEMENT PLAN

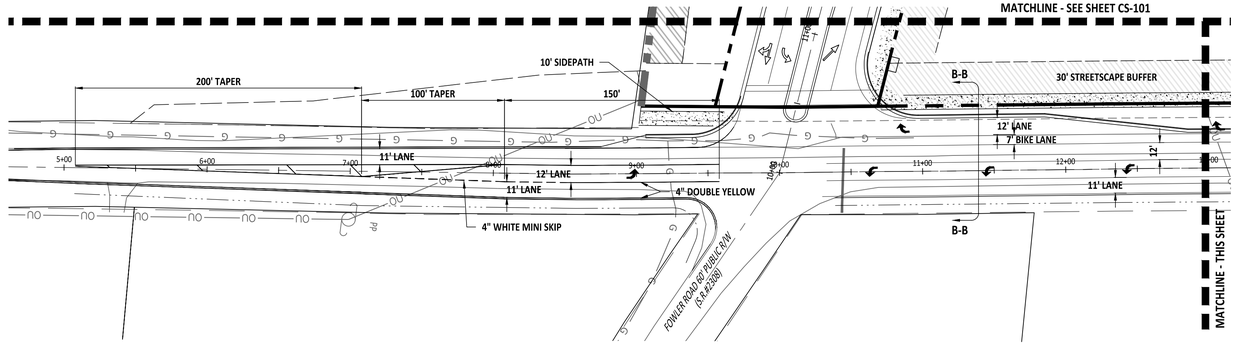
SHEET NO.:
CT-100

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 (BRP)\Mark_Working Dwgs\Sheets\Construction Set\GD, CT-101 Road Improvement Plan.dwg

2025-07-01



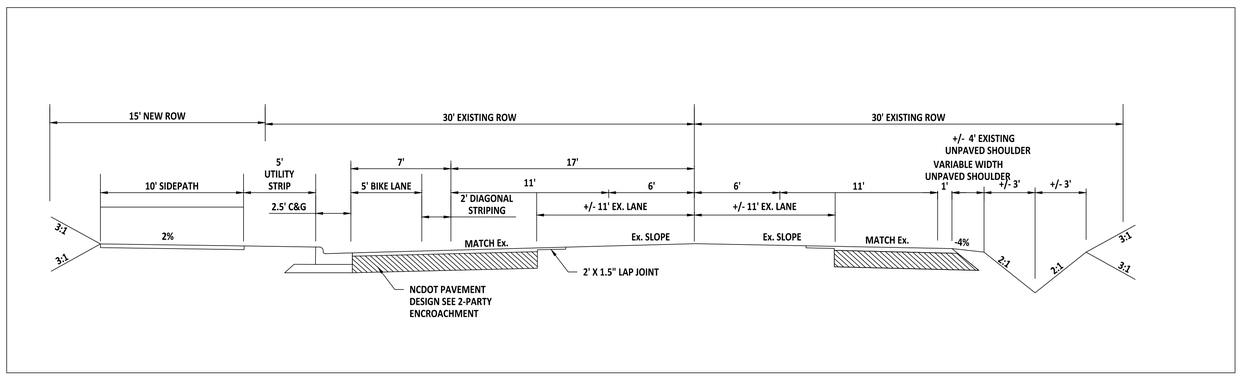


GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)

1 inch = 40 ft



ROLESVILLE ROAD TYPICAL SECTION A-A NTS

PROJECT NUMBER = CID-25-02

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

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PRELIMINARY

NORTH CAROLINA PROFESSIONAL ENGINEER 36528 JAKOB P. KLEIN

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MERRITT RESERVE

ROLESVILLE ROAD STRIPING 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:

ROLESVILLE ROAD STRIPING PLAN

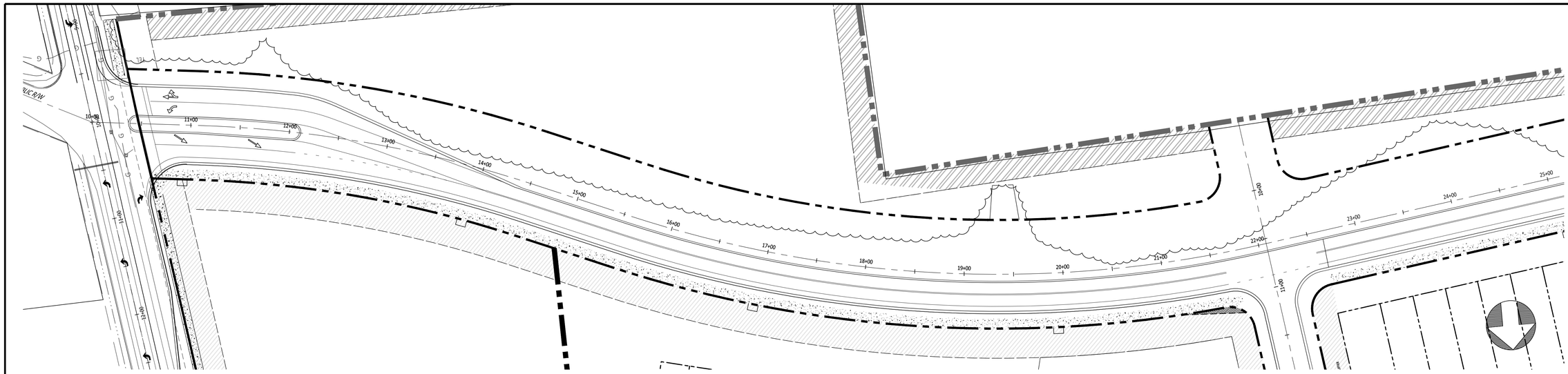
SHEET NO.:

CT-101

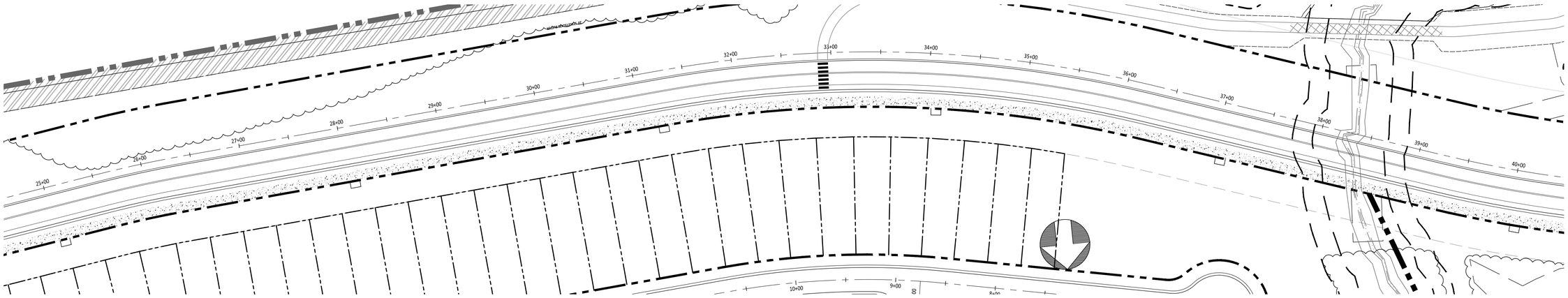
North Carolina 811 It's the Law
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merrit Property (BRT)\Awg_Working Dwgs\5\sheet\Construction Set\CS_CT-100 Striping Plan.dwg

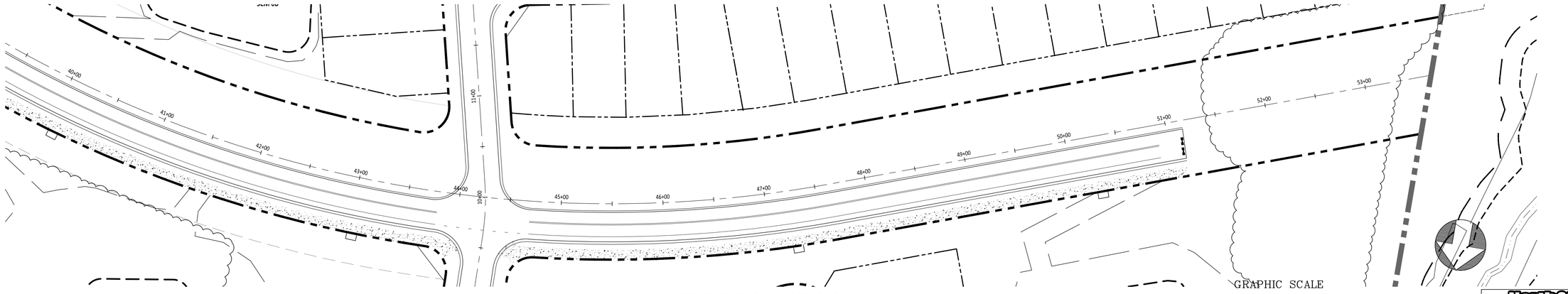
2025-07-01



FOWLER ROAD STA. 10+00 TO STA. 25+00



FOWLER ROAD STA. 25+00 TO STA. 40+00



FOWLER ROAD STA. 40+00 TO STA. 53+00

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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
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16528
ENGINEER
JAKOB P. KLEIN

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MERRITT RESERVE
FOWLER ROAD STRIPING 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:

FOWLER ROAD STRIPING PLAN

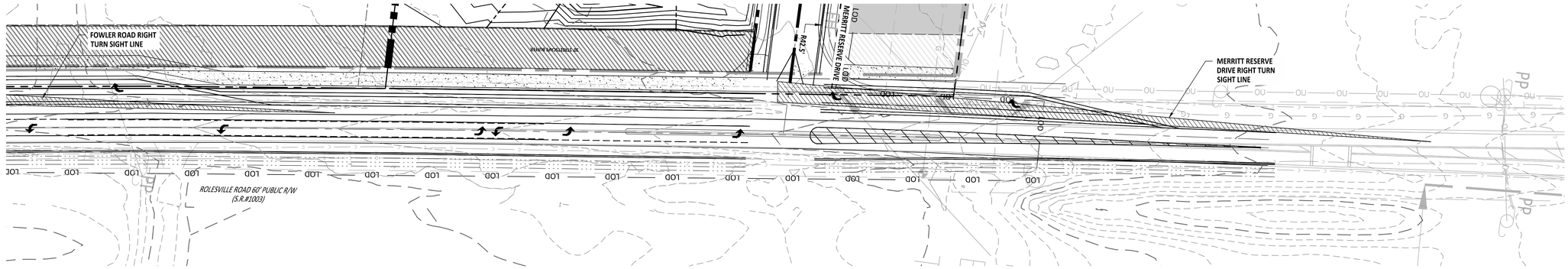
SHEET NO.:

CT-102

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 (BTD Awd)_Working Dwgs\5Sheets\Construction Set\59_CT-100 Striping Plan.dwg

2025-07-01



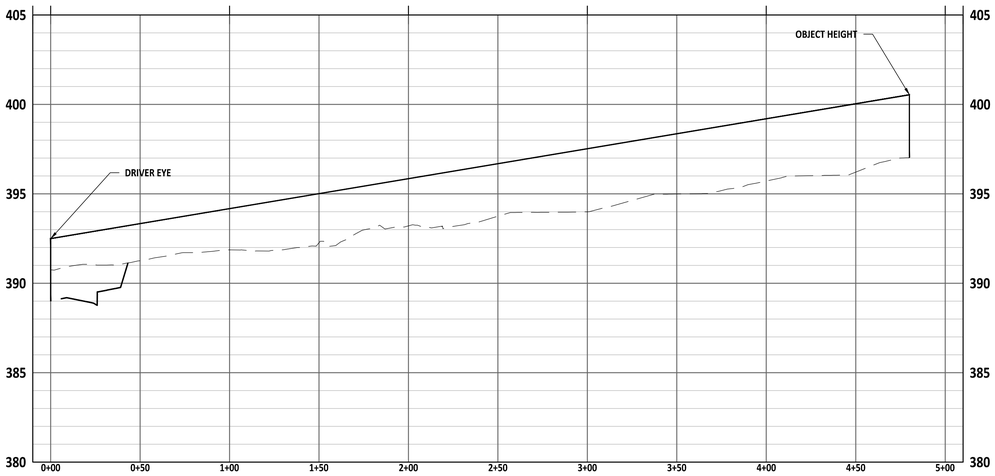
MERRITT RESERVE DRIVE & ROLESVILLE RD INTERSECTION SIGHT LINE PLAN

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)

1 inch = ft 40



MERRITT RESERVE DRIVE RIGHT TURN LOOKING LEFT SIGHT LINE PROFILE

PROJECT NUMBER = CID-25-02

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

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PRELIMINARY

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER 36528 JACOB P. KLEIN

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MERRITT RESERVE

FOWLER ROAD SIGHT PLAN & PROFILE

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:

FOWLER ROAD SIGHT PLAN & PROFILE

SHEET NO.:

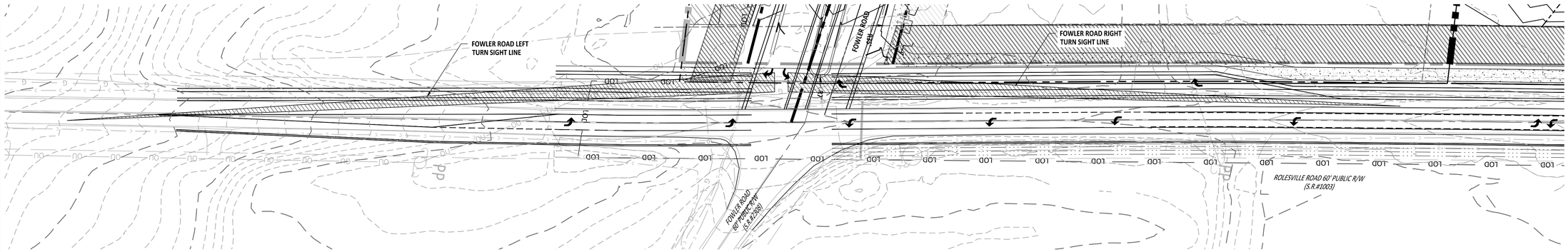
CT-200

North Carolina 811 It's the Law

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

Z:\Jobs\23-0004 Merrit Property (BRT)\Dwg_Working Dwgs\Sheets\Construction Set\01_CT-200 Sight Distance PP.dwg

2025-07-02

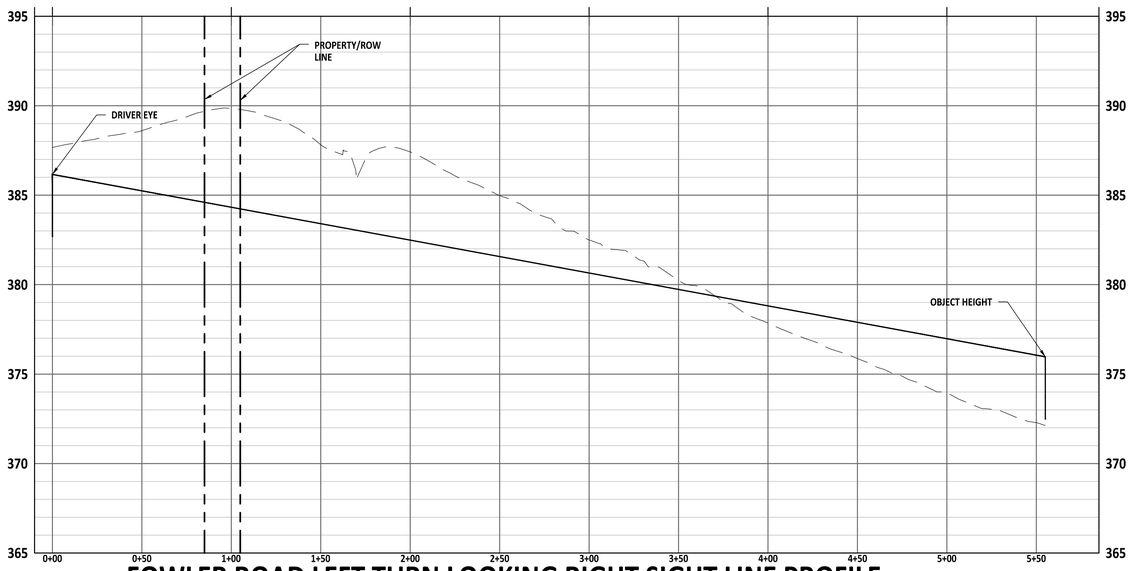


FOWLER ROAD & ROLESVILLE RD SIGHT LINE PLAN

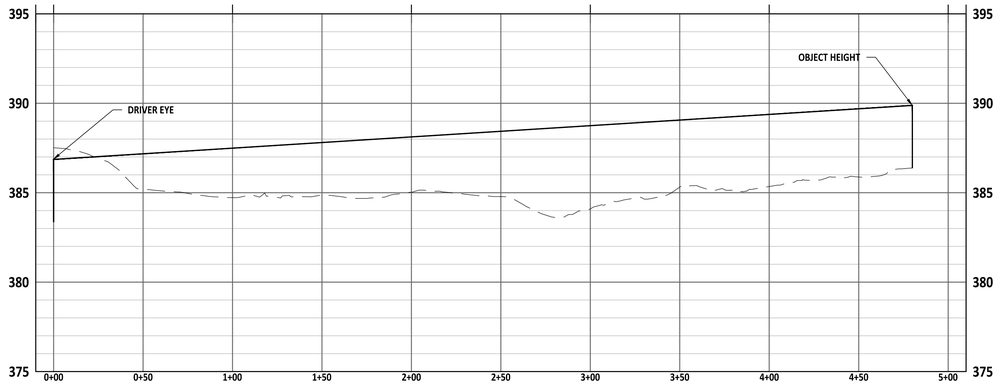
GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = ft 40



FOWLER ROAD LEFT TURN LOOKING RIGHT SIGHT LINE PROFILE



FOWLER ROAD RIGHT TURN LOOKING LEFT SIGHT LINE PROFILE

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

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

PRELIMINARY
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NORTH CAROLINA
REGISTERED
PROFESSIONAL
ENGINEER
36528
JAKOB P. KLEIN

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MERRITT RESERVE
MERRITT RESERVE DR SIGHT PLAN & PROFILE
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:
MERRITT RESERVE DR SIGHT PLAN & PROFILE

SHEET NO.:
CT-201

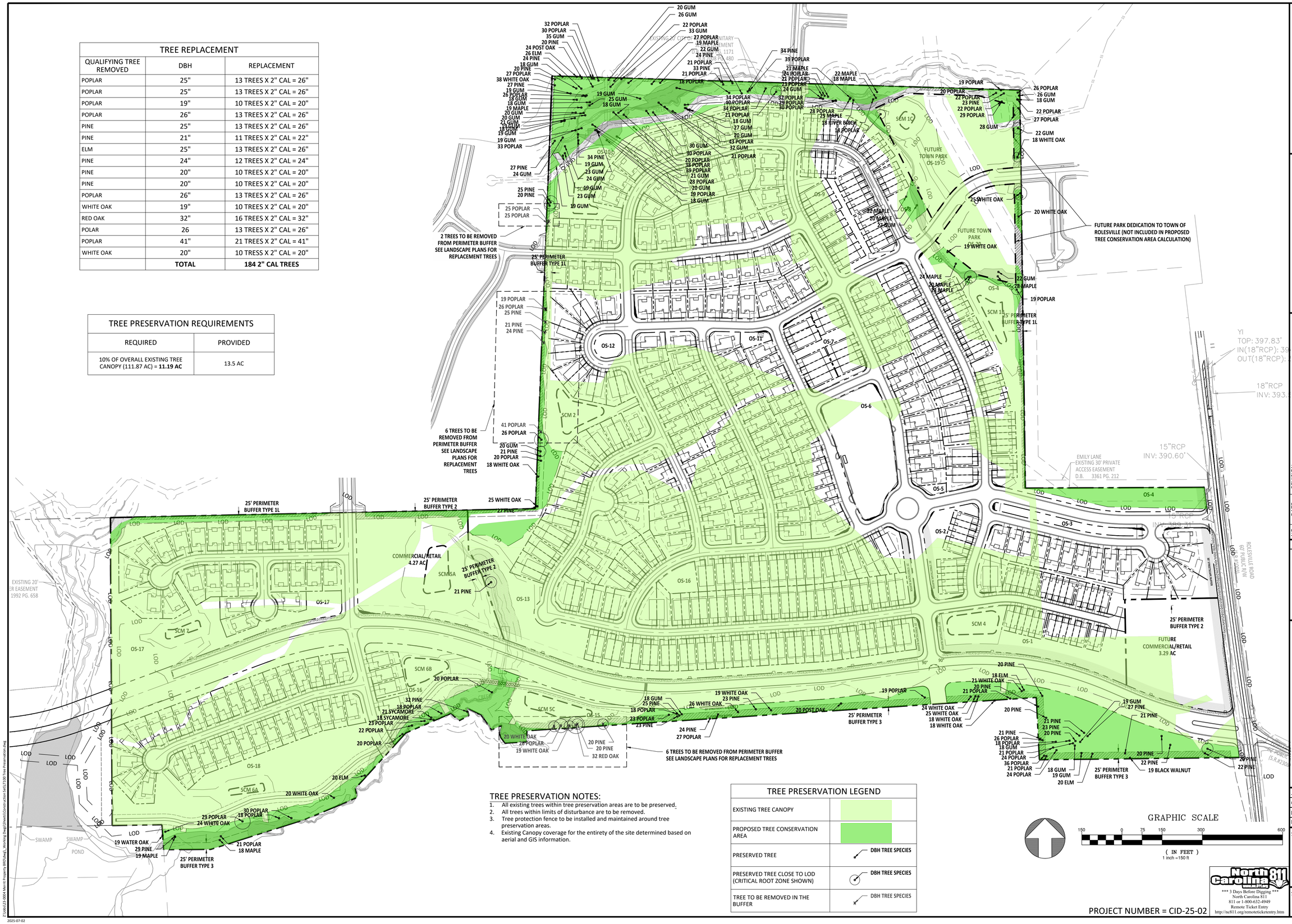
PROJECT NUMBER = CID-25-02

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 BRP\Revit_Working Dwgs\Sheets\Construction Set\01_CT 200 Sight Distance PP.dwg
2025-07-02

TREE REPLACEMENT		
QUALIFYING TREE REMOVED	DBH	REPLACEMENT
POPLAR	25"	13 TREES X 2" CAL = 26"
POPLAR	25"	13 TREES X 2" CAL = 26"
POPLAR	19"	10 TREES X 2" CAL = 20"
POPLAR	26"	13 TREES X 2" CAL = 26"
PINE	25"	13 TREES X 2" CAL = 26"
PINE	21"	11 TREES X 2" CAL = 22"
ELM	25"	13 TREES X 2" CAL = 26"
PINE	24"	12 TREES X 2" CAL = 24"
PINE	20"	10 TREES X 2" CAL = 20"
PINE	20"	10 TREES X 2" CAL = 20"
POPLAR	26"	13 TREES X 2" CAL = 26"
WHITE OAK	19"	10 TREES X 2" CAL = 20"
RED OAK	32"	16 TREES X 2" CAL = 32"
POLAR	26	13 TREES X 2" CAL = 26"
POPLAR	41"	21 TREES X 2" CAL = 41"
WHITE OAK	20"	10 TRESS X 2" CAL = 20"
	TOTAL	**184 2" CAL TREES**

TREE PRESERVATION REQUIREMENTS	
REQUIRED	PROVIDED
10% OF OVERALL EXISTING TREE CANOPY (111.87 AC) = **11.19 AC**	13.5 AC



TREE PRESERVATION NOTES:

1. All existing trees within tree preservation areas are to be preserved.
2. All trees within limits of disturbance are to be removed.
3. Tree protection fence to be installed and maintained around tree preservation areas.
4. Existing Canopy coverage for the entirety of the site determined based on aerial and GIS information.

TREE PRESERVATION LEGEND	
EXISTING TREE CANOPY	
PROPOSED TREE CONSERVATION AREA	
PRESERVED TREE	DBH TREE SPECIES
PRESERVED TREE CLOSE TO LOD (CRITICAL ROOT ZONE SHOWN)	DBH TREE SPECIES
TREE TO BE REMOVED IN THE BUFFER	DBH TREE SPECIES

GRAPHIC SCALE

150 0 75 150 300 600

(IN FEET)

1 inch = 150 ft

PROJECT NUMBER = CID-25-02

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

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECTURAL CORPORATION C-652

PRELIMINARY
PRELIMINARY
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LAUREN E. DICKSON
FOR INFORMATION, ONLY

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MERRITT RESERVE

TREE PRESERVATION 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:

TREE PRESERVATION PLAN

SHEET NO.:

LT-100

North Carolina 811 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 (BRP)\Dwg_Working Dwgs\Sheets\Construction Set\LT100 Tree Preservation.dwg

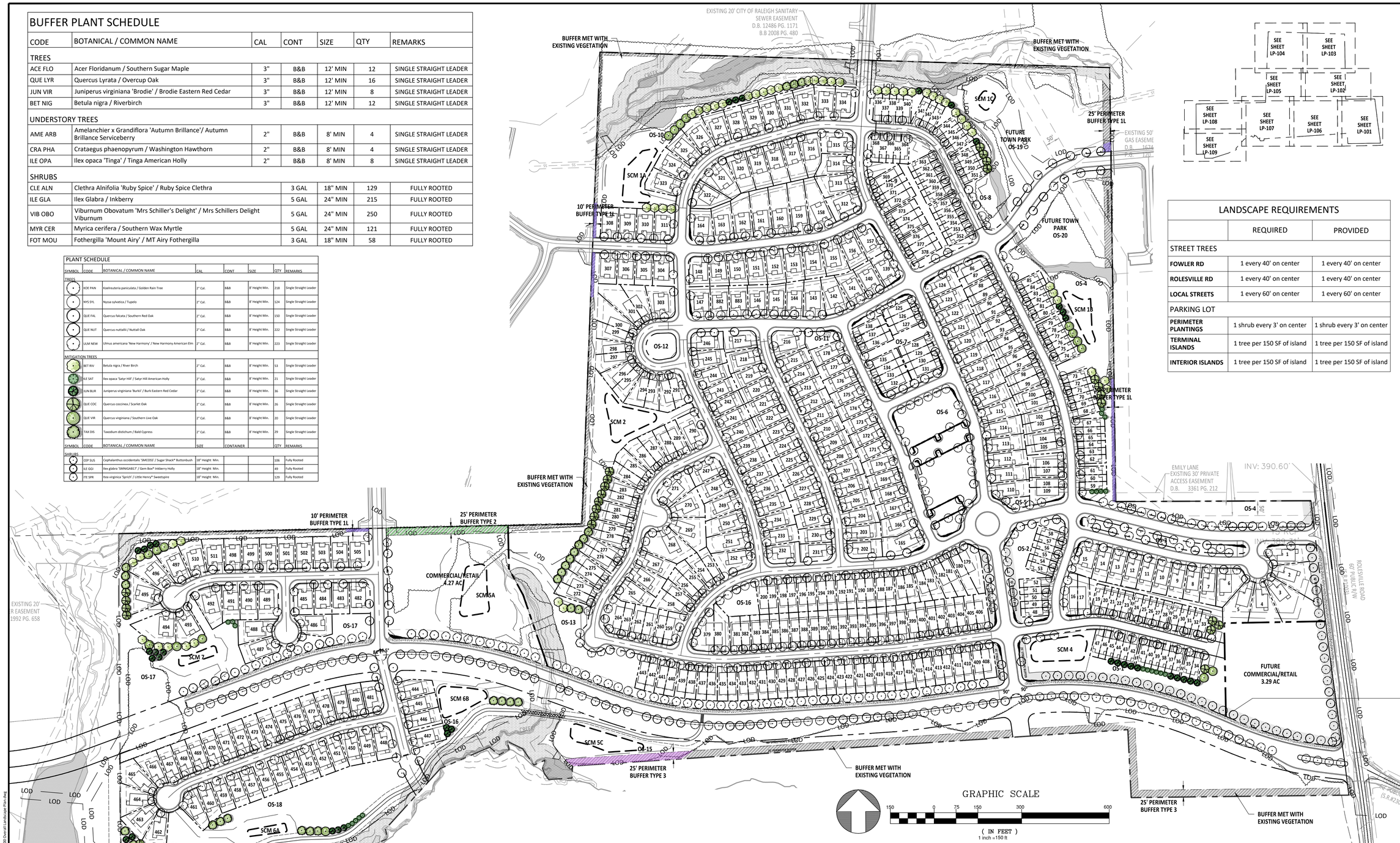
2025-07-02

BUFFER PLANT SCHEDULE

CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY	REMARKS
TREES						
ACE FLO	Acer Floridanum / Southern Sugar Maple	3"	B&B	12' MIN	12	SINGLE STRAIGHT LEADER
QUE LYR	Quercus Lyrata / Overcup Oak	3"	B&B	12' MIN	16	SINGLE STRAIGHT LEADER
JUN VIR	Juniperus virginiana 'Brodie' / Brodie Eastern Red Cedar	3"	B&B	12' MIN	8	SINGLE STRAIGHT LEADER
BET NIG	Betula nigra / Riverbirch	3"	B&B	12' MIN	12	SINGLE STRAIGHT LEADER
UNDERSTORY TREES						
AME ARB	Amelanchier x Grandiflora 'Autumn Brillance'/ Autumn Brillance Serviceberry	2"	B&B	8' MIN	4	SINGLE STRAIGHT LEADER
CRA PHA	Crataegus phaenopyrum / Washington Hawthorn	2"	B&B	8' MIN	4	SINGLE STRAIGHT LEADER
ILE OPA	Ilex opaca 'Tinga' / Tinga American Holly	2"	B&B	8' MIN	8	SINGLE STRAIGHT LEADER
SHRUBS						
CLE ALN	Clethra Alnifolia 'Ruby Spice' / Ruby Spice Clethra		3 GAL	18" MIN	129	FULLY ROOTED
ILE GLA	Ilex Glabra / Inkberry		5 GAL	24" MIN	215	FULLY ROOTED
VIB OBO	Viburnum Obovatum 'Mrs Schiller's Delight' / Mrs Schillers Delight Viburnum		5 GAL	24" MIN	250	FULLY ROOTED
MYR CER	Myrica cerifera / Southern Wax Myrtle		5 GAL	24" MIN	121	FULLY ROOTED
FOT MOU	Fothergilla 'Mount Airy' / MT Airy Fothergilla		3 GAL	18" MIN	58	FULLY ROOTED

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY	REMARKS
TREES							
	KOE PAN	Koelreuteria paniculata / Golden Rain Tree	2" Cal.	B&B	8' Height Min.	218	Single Straight Leader
	NYS SYL	Nyssa sylvatica / Tupelo	2" Cal.	B&B	8' Height Min.	124	Single Straight Leader
	QUE FAL	Quercus falcata / Southern Red Oak	2" Cal.	B&B	8' Height Min.	150	Single Straight Leader
	QUE NUT	Quercus nuttallii / Nuttall Oak	2" Cal.	B&B	8' Height Min.	222	Single Straight Leader
	ULM NEW	Ulmus americana 'New Harmony' / New Harmony American Elm	2" Cal.	B&B	8' Height Min.	223	Single Straight Leader
MITIGATION TREES							
	BET RIV	Betula nigra / River Birch	2" Cal.	B&B	8' Height Min.	53	Single Straight Leader
	ILE SAT	Ilex opaca 'Satyr Hill' / Satyr Hill American Holly	2" Cal.	B&B	8' Height Min.	21	Single Straight Leader
	JUN BUR	Juniperus virginiana 'Burkii' / Burk Eastern Red Cedar	2" Cal.	B&B	8' Height Min.	36	Single Straight Leader
	QUE COC	Quercus coccinea / Scarlet Oak	2" Cal.	B&B	8' Height Min.	26	Single Straight Leader
	QUE VIR	Quercus virginiana / Southern Live Oak	2" Cal.	B&B	8' Height Min.	20	Single Straight Leader
	TAX DIS	Taxodium distichum / Bald Cypress	2" Cal.	B&B	8' Height Min.	29	Single Straight Leader
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER		QTY	REMARKS
SHRUBS							
	CEP SUS	Cephalanthus occidentalis 'SMCOSS' / Sugar Shack® Buttonbush	18" Height Min.			106	Fully Rooted
	ILE GGI	Ilex glabra 'SMNIGAB17' / Gem Box® Inkberry Holly	18" Height Min.			49	Fully Rooted
	ITE SPR	Itea virginica 'Sprich' / Little Henry® Sweetspire	18" Height Min.			129	Fully Rooted



LANDSCAPE REQUIREMENTS

	REQUIRED	PROVIDED
STREET TREES		
FOWLER RD	1 every 40' on center	1 every 40' on center
ROLESVILLE RD	1 every 40' on center	1 every 40' on center
LOCAL STREETS	1 every 60' on center	1 every 60' on center
PARKING LOT		
PERIMETER PLANTINGS	1 shrub every 3' on center	1 shrub every 3' on center
TERMINAL ISLANDS	1 tree per 150 SF of island	1 tree per 150 SF of island
INTERIOR ISLANDS	1 tree per 150 SF of island	1 tree per 150 SF of island

GRAPHIC SCALE

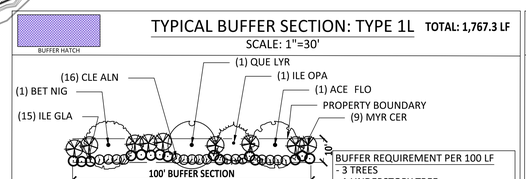
150 0 75 150 300 600

(IN FEET)
1 inch =150 ft

TYPICAL BUFFER SECTION: TYPE 1L

TOTAL: 1,767.3 LF

SCALE: 1"=30'

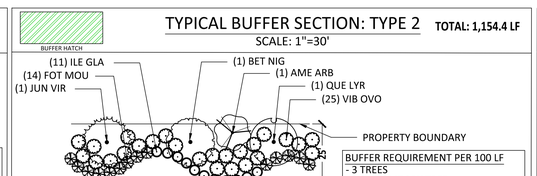


BUFFER REQUIREMENT PER 100 LF
- 3 TREES
- 1 UNDERSTORY TREE
- 40 SHRUBS

TYPICAL BUFFER SECTION: TYPE 2

TOTAL: 1,154.4 LF

SCALE: 1"=30'

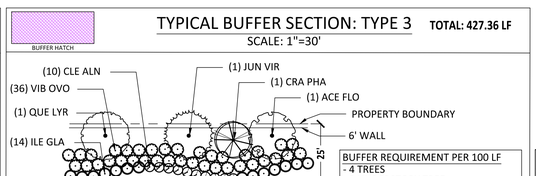


BUFFER REQUIREMENT PER 100 LF
- 3 TREES
- 1 UNDERSTORY TREE
- 50 SHRUBS

TYPICAL BUFFER SECTION: TYPE 3

TOTAL: 427.36 LF

SCALE: 1"=30'



BUFFER REQUIREMENT PER 100 LF
- 4 TREES
- 2 UNDERSTORY TREE
- 60 SHRUBS
- 6' WALL

PROJECT NUMBER = RSD-25-02

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

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT C-652 LAUREN E. DICKSON AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS AMERICAN SOCIETY OF CONSULTING ARCHITECTS

PRELIMINARY

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DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET

STIPULATION FOR REUSE

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MERRITT RESERVE

OVERALL LANDSCAPE 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:

OVERALL LANDSCAPE PLAN

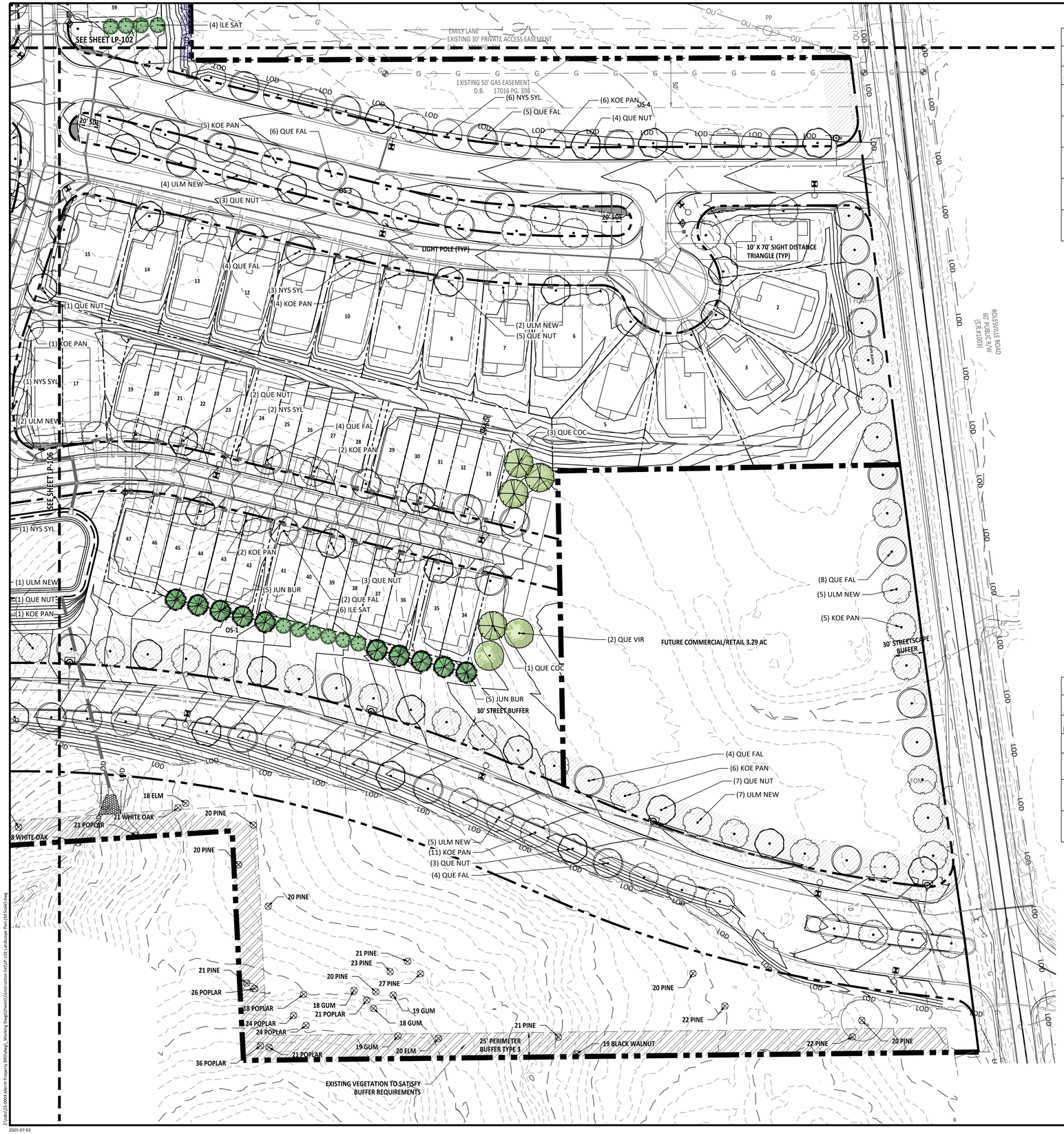
SHEET NO.:

LP-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 (BRD\Dwg_Working Dwgs\Sheets\Construction Set\LP-100 Overall Landscape Plan.dwg

2025-07-02



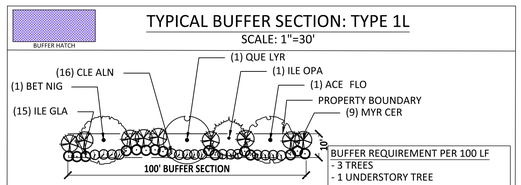
STREETSCAPE BUFFER SCHEDULE LP-101

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY	REMARKS
TREES							
•	KOE PAN	Koelreuteria paniculata / Golden Rain Tree	2" Cal.	B&B	8' Height Min.	41	Single Straight Leader
•	NYS SYL	Nyssa sylvatica / Tupelo	2" Cal.	B&B	8' Height Min.	11	Single Straight Leader
•	QUE FAL	Quercus falcata / Southern Red Oak	2" Cal.	B&B	8' Height Min.	36	Single Straight Leader
•	QUE NUT	Quercus nuttallii / Nuttall Oak	2" Cal.	B&B	8' Height Min.	27	Single Straight Leader
•	ULM NEW	Ulmus americana 'New Harmony' / New Harmony American Elm	2" Cal.	B&B	8' Height Min.	23	Single Straight Leader

NOTES:
1. REPLACEMENT TREES SHOWN IN COLOR.
2. SEE OVERALL LANDSCAPE PLAN FOR BUFFER PLANT QUANTITIES.
3. TOWN OF ROLESVILLE STAFF TO WALK SITE AFTER CLEARING OPERATIONS HAVE FINISHED TO DETERMINE IF EXISTING SITE VEGETATION MEETS BUFFER REQUIREMENTS OR IF SUPPLEMENTAL PLANTINGS ARE NEEDED TO MEET REQUIREMENTS.

TYPICAL BUFFER SECTION: TYPE 1L

SCALE: 1"=30'



BUFFER PLANT SCHEDULE

CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	REMARKS
TREES					
ACE FLO	Acer Floridanum / Southern Sugar Maple	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
QUE LYR	Quercus Lyrata / Overcup Oak	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
BET NIG	Betula nigra / Riverbirch	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
UNDERSTORY TREES					
ILE OPA	Ilex opaca 'Tinga' / Tinga American Holly	2"	B&B	8' MIN	SINGLE STRAIGHT LEADER
SHRUBS					
CLE ALN	Clethra Alnifolia 'Ruby Spice' / Ruby Spice Clethra		3 GAL	18" MIN	FULLY ROOTED
ILE GLA	Ilex Glabra / Inkberry		5 GAL	24" MIN	FULLY ROOTED
MYR CER	Myrica cerifera / Southern Wax Myrtle		5 GAL	24" MIN	FULLY ROOTED

REPLACEMENT TREE PLANT SCHEDULE LP-101

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY	REMARKS
MITIGATION TREES							
	ILE SAT	Ilex opaca 'Satyr Hill' / Satyr Hill American Holly	2" Cal.	B&B	8' Height Min.	6	Single Straight Leader
	JUN BUR	Juniperus virginiana 'Burkii' / Burk Eastern Red Cedar	2" Cal.	B&B	8' Height Min.	10	Single Straight Leader
	QUE COC	Quercus coccinea / Scarlet Oak	2" Cal.	B&B	8' Height Min.	4	Single Straight Leader
	QUE VIR	Quercus virginiana / Southern Live Oak	2" Cal.	B&B	8' Height Min.	2	Single Straight Leader

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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

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

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECTURAL CORPORATION C-652 AMERICAN SERVICES

PRELIMINARY
PRELIMINARY
DO NOT USE FOR CONSTRUCTION
4/2026
LAUREN E. DICKSON
FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET

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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:

LANDSCAPE PLAN

SHEET NO.:

LP-101

Z:\Jobs\23-0004 Merrit Property (BRD)\Dwg_Working Dwgs\Sheets\Construction Set\LP-101 Landscape Plan (SS Scale).dwg
2025-07-02