V3

THE POINT - PHASES 8 AND 14

EAST YOUNG STREET
ROLESVILLE, NORTH CAROLINA
CID-24-01

CONSTRUCTION DRAWINGS - PACKAGE 3

PROJECT NUMBER: AWH-20000

DATE: DECEMBER 13, 2023

15.4.5 - Streets

15.4.5.1
Type of Street Required All subdivision lots shall abut at least 20 feet on a public street. All public streets shall be dedicated to the Town of Rolesville, the State of North Carolina or the public as determined appropriate by the Board of Commissioners of the Town of Rolesville. All public streets shall be built to the standards of this ordinance and all other applicable standards of the Town of Rolesville and the North Carolina Department of Transportation. Public streets not dedicated to the Town which are eligible for acceptance into the State Highway System shall be constructed to the standards necessary to be put on the State Highway System or the standards in this ordinance, whichever is stricter, in regard to each particular item and shall be put on such system. Streets not dedicated to the Town which are not eligible to be put on the State Highway System because there are too few lots or residences shall, nevertheless, be dedicated to the public and shall be in accordance with the standards in this ordinance or the standards necessary to be put on the State Highway System, whichever is stricter in regard to each particular item, so as to be eligible to be put on the system at a
later date. A written maintenance agreement with provisions for maintenance of the street until it is put on the State System shall be included with the final plat.

15.4.5.2
Subdivision Street Disclosure Statement All streets shown on the final plat shall be designated in accordance with G.S. § 136-102.6 and designation as public shall be conclusively presumed an offer of dedication to the public. Where streets are dedicated to the public but not accepted into a municipal or the State system, before lots are sold, a statement explaining the status of the street shall be included with the final plat.

PARCEL OWNER LIST		
PIN	OWNER	AREA
1768131851	ASHTON RALEIGH RESIDENTIAL, LLC 4025 LAKE BOONE TRAIL, SUITE 200 RALEIGH, NORTH CAROLINA 27607	31.13 AC.
1768254698	BROOKFIELD HOLDINGS (THE POINTE) LLC ANDREW BRAUSA 250 VESEY STREET FL 15 NEW YORK, NY 10281-1065	109.24 AC.
1768347557	ASHTON RALEIGH RESIDENTIAL, LLC 4025 LAKE BOONE TRAIL, SUITE 200 RALEIGH, NORTH CAROLINA 27607	11.90 AC.
1758839170	ASHTON RALEIGH RESIDENTIAL, LLC 4025 LAKE BOONE TRAIL, SUITE 200 RALEIGH, NORTH CAROLINA 27607	47.53 AC.
1768043342	ASHTON RALEIGH RESIDENTIAL, LLC 4025 LAKE BOONE TRAIL, SUITE 200 RALEIGH, NORTH CAROLINA 27607	52.45 AC.

SURVEY BY:

BATEMAN CIVIL SURVEY COMPANY
2424 RELIANCE AVENUE, APEX, NC 27539

TOPOGRAPHIC DECEMBER 22, 2019
ALTA SURVEY DECEMBER 12, 2019

STEVEN P CARSON, PLS
NC LICENSE # 4752
919-577-1081

SURVEY NOTES

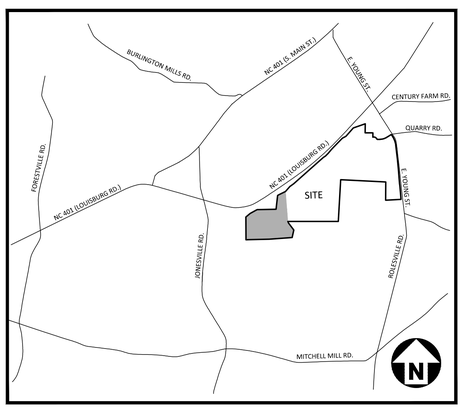
1. THE PROPERTY LIES IN ZONE "X" PER NATIONAL FLOOD INSURANCE PROGRAM RATE MAP 3720175800J & 3720176800J DATES 05/02/2006.
2. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE BASED ON OBSERVED GPS CONTROL. NAD 83 / NSRS 2011 / STATE PLANE COORDINATES.
3. SUBJECT PARCEL ZONED R & PUD PER WAKE COUNTY GIS.
4. SURVEY WAS PREPARED BY BATEMAN CIVIL SURVEY COMPANY UNDER THE SUPERVISION OF STEVEN P. CARSON, PLS. FIELD WORK WAS COMPLETED DEC 3 - 21, 2018.
5. AREAS COMPUTED BY COORDINATE METHOD.
6. SANITARY SEWER LINE EASEMENT WAS CREATED BASED ON CENTER LINES ON MANHOLES USING FIELD EVIDENCE.
7. NO CEMETERIES OBSERVED AS A RESULT OF THE SURVEY.
8. BUILDINGS ARE AS SHOWN ON SURVEY.

Impervious Summary

Total Areas For Lots		
SF-60=	0	sf
SF-40=	0	sf
SF-39=	0	sf
SF-50=	470297	sf
TH-22	242752	sf

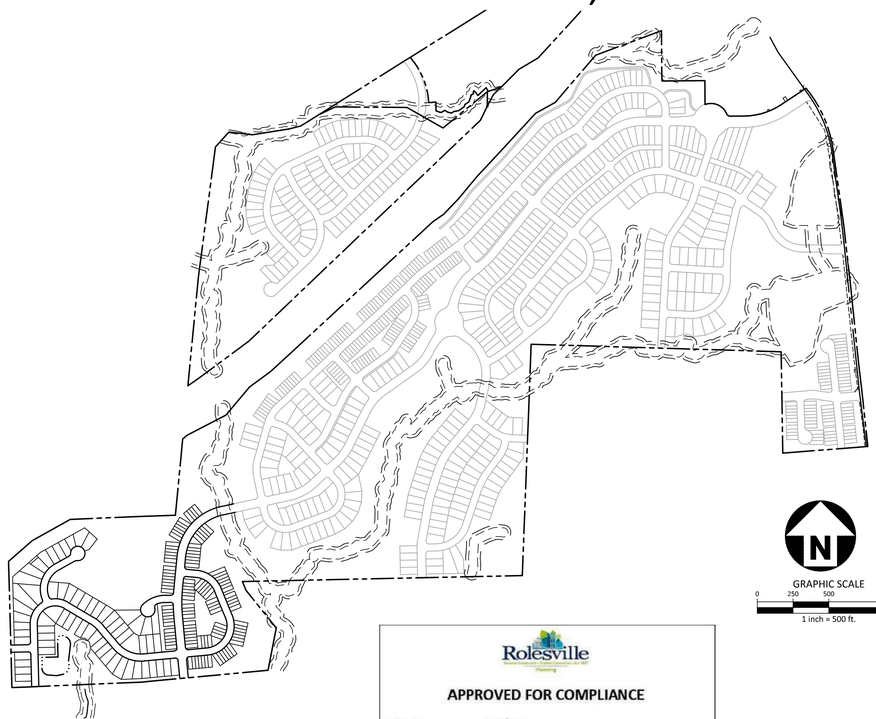
Lot Assumptions Breakdown	Impervious	Roof(70% Imp.)	Sidewalk(10% Imp.)	Driveway(20% Imp.)	Pervious
SF-60	0.00	0.00	0.00	0.00	0.00
SF-40	0.00	0.00	0.00	0.00	0.00
SF-39	0.00	0.00	0.00	0.00	0.00
SF-50	277479	194235	27748	55495	192312
TH-22	220904	154633	22090	44181	21848
Totals(sf)=	*498380*	*348868*	*49838*	*99676*	*214669*

Residential	Area	
Roadway=	172393	sf
Grassed Right-of-ways=	0	sf
Driveway=	99676	sf
Parking Lot=	0	sf
Roof=	348868	sf
Sidewalk(includes Patio)=	137218	sf
Lawn=	214669	sf
Managed Pervious=	0	sf
Woods(not on lots)=	356856	sf
Woods(on Lots)=	0	sf
Pond	79031	sf
Open(includes Crops)	663821	sf



VICINITY MAP

N.T.S.



CORPUD APPROVAL CONDITION:

CONVEYANCE OF SEWAGE FROM THE PROPOSED LOTS WITHIN THE POINT SOUTH CD PACKAGE #3 WILL RELY ON IMPROVEMENTS TO THE HARRIS CREEK INTERCEPTOR THAT ARE BEING DESIGNED BY MCADAMS AND AMERICAN ENGINEERING. THE PLAN SET BY MCADAMS IS TITLED HARRIS CREEK INTERCEPTOR IMPROVEMENTS AND WILL BE ASSIGNED PERMIT # S-4979. THE PLAN SET BY AMERICAN ENGINEERING IS TITLED HARRIS CREEK SANITARY SEWER REPLACEMENT AND WILL BE ASSIGNED PERMIT # S-5037. THE POINT SOUTH CD PACKAGE #3 LOTS WILL NOT BE RECORDED AND THE ONSITE WATER/SEWER UTILITIES WILL NOT BE ACCEPTED BY RALEIGH UNTIL THE HARRIS CREEK INTERCEPTOR IMPROVEMENTS UNDER PERMITS # S-4979 AND # S-5037 ARE APPROVED, INSTALLED, AND ACCEPTED BY RALEIGH FOR MAINTENANCE.

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT

APPROVED

EROSION CONTROL ☐ S-_____

STORMWATER MGMT. ☐ S-_____

FLOOD STUDY ☐ S-_____

DATE_____

WAKE COUNTY NORTH CAROLINA EFFECTIVE: 08/23/18

ENVIRONMENTAL CONSULTANT SIGNATURE

Rolesville

APPROVED FOR COMPLIANCE

Case #_____ Project:_____

By:_____ Date:_____

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

SITE PERMITTING APPROVAL

Water and Sewer Permits (if applicable)

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

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

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

CITY OF RALEIGH – PLANS AUTHORIZED FOR CONSTRUCTION

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

City of Raleigh Development Approval _____
City of Raleigh Review Officer

2

DISTURBED AREA = 34.42 AC.

QUANTITIES :

STREETS

QUARRY ROAD "1"	60' R/W	1,450 LF
REVERIE WAY	50' R/W	2,719 LF
MARROW COURT	50' R/W	467 LF
MYRIAD COURT	50' R/W	235 LF
TROUPE WAY	50' R/W	163 LF

PUBLIC UTILITY IMPROVEMENTS QUANTITIES
(CONSTRUCTION DRAWINGS - PACKAGE 3)

PHASE NUMBER	ALL PHASES
NUMBER OF LOTS	179
LOT NUMBERS	624-802
6" PUBLIC WATER (LF)	603 LF
8" PUBLIC WATER (LF)	1,336 LF
12" PUBLIC WATER (LF)	3,123 LF
8" PUBLIC SEWER (LF)	4,615 LF
WATER SERVICE STUBS	179
SEWER SERVICE STUBS	179

SHEET INDEX

C0.00	PROJECT NOTES AND SITE DETAILS
C0.01	TYPICAL SECTIONS
C0.02	OPEN SPACE PLAN
C0.03	OVERALL MASTER SITE PLAN
C1.00	OVERALL EXISTING CONDITIONS
C1.05	EXISTING CONDITIONS AND DEMOLITION PLAN
C2.00	OVERALL SITE PLAN
C2.13	SITE PLAN - AREA "M"
C2.14	SITE PLAN - AREA "N"
C2.17	SITE PLAN - AREA "Q"
C2.18	SITE PLAN - AREA "R"
C3.00	OVERALL GRADING AND STORM DRAINAGE PLAN
C3.13	GRADING AND STORM DRAINAGE PLAN - AREA "M"
C3.14	GRADING AND STORM DRAINAGE PLAN - AREA "N"
C3.17	GRADING AND STORM DRAINAGE PLAN - AREA "Q"
C3.18	GRADING AND STORM DRAINAGE PLAN - AREA "R"
C4.00	OVERALL UTILITY PLAN
C4.13	UTILITY PLAN - AREA "M"
C4.14	UTILITY PLAN - AREA "N"
C4.17	UTILITY PLAN - AREA "Q"
C4.18	UTILITY PLAN - AREA "R"
C5.00	PLAN AND PROFILE - REVERIE WAY STA. 9+50.00 THRU STA. 18+00.00
C5.01	PLAN AND PROFILE - REVERIE WAY STA. 18+00.00 THRU STA. 29+00.00
C5.02	PLAN AND PROFILE - REVERIE WAY STA. 29+00.00 THRU STA. 37+50.00
C5.03	PLAN AND PROFILE - QUARRY ROAD "1" STA. 9+50.00 THRU STA. 20+00.00
C5.04	PLAN AND PROFILE - QUARRY ROAD "1" STA. 20+00.00 THRU STA. 26+00.00
	PLAN AND PROFILE - MYRIAD COURT
C5.05	PLAN AND PROFILE - MARROW COURT
	PLAN AND PROFILE - TROUPE WAY
C5.06	PLAN AND PROFILE - SS O/F "C"
	PLAN AND PROFILE - SS O/F "L"
C5.07	PLAN AND PROFILE - GREENWAY "1" STA. 9+50.00 THRU STA. 22+00.00
C5.08	PLAN AND PROFILE - GREENWAY "1" STA. 21+50.00 THRU STA. 30+00.00
C5.09	PLAN AND PROFILE - GREENWAY "2" STA. 9+50.00 THRU STA. 22+50.00
C5.10	PLAN AND PROFILE - GREENWAY "2" STA. 22+50.00 THRU STA. 27+50.00
C6.00	EROSION CONTROL NOTES
C6.01	OVERALL EROSION CONTROL PLAN
C6.02	CD PACKAGE 3 OVERALL EROSION CONTROL PLAN
C6.13A	EROSION CONTROL PLAN - STAGE 1 - AREA "M"
C6.14A	EROSION CONTROL PLAN - STAGE 1 - AREA "N"
C6.17A	EROSION CONTROL PLAN - STAGE 1 - AREA "Q"
C6.18A	EROSION CONTROL PLAN - STAGE 1 - AREA "R"
C6.13B	EROSION CONTROL PLAN - STAGE 2 - AREA "M"
C6.14B	EROSION CONTROL PLAN - STAGE 2 - AREA "N"
C6.17B	EROSION CONTROL PLAN - STAGE 2 - AREA "Q"
C6.18B	EROSION CONTROL PLAN - STAGE 2 - AREA "R"
C6.13C	EROSION CONTROL PLAN - STAGE 3 - AREA "M"
C6.14C	EROSION CONTROL PLAN - STAGE 3 - AREA "N"
C6.17C	EROSION CONTROL PLAN - STAGE 3 - AREA "Q"
C6.18C	EROSION CONTROL PLAN - STAGE 3 - AREA "R"
C6.04	EROSION CONTROL DETAILS
C6.05	EROSION CONTROL DETAILS
C6.06	EROSION CONTROL DETAILS
C6.07	EROSION CONTROL DETAILS
C7.13	PAVEMENT MARKING AND SIGNAGE PLAN - AREA "M"
C7.14	PAVEMENT MARKING AND SIGNAGE PLAN - AREA "N"
C7.17	PAVEMENT MARKING AND SIGNAGE PLAN - AREA "Q"
C7.18	PAVEMENT MARKING AND SIGNAGE PLAN - AREA "R"
C8.00	SITE DETAILS
C8.01	SITE DETAILS
C8.02	STORM DRAINAGE DETAILS
C8.03	STORM DRAINAGE DETAILS
C8.04	WATER DETAILS
C8.05	WATER DETAILS
C8.06	SANITARY SEWER DETAILS
C8.07	SANITARY SEWER DETAILS
C9.00K	STORMWATER CONTROL MEASURE "K" PLAN VIEW
C9.01K	STORMWATER CONTROL MEASURE "K" DETAILS
C9.02K	STORMWATER CONTROL MEASURE "K" DETAILS
C9.03K	STORMWATER CONTROL MEASURE "K" LANDSCAPE PLAN
C9.00L	STORMWATER CONTROL MEASURE "L" PLAN VIEW
C9.01L	STORMWATER CONTROL MEASURE "L" DETAILS
C9.02L	STORMWATER CONTROL MEASURE "L" DETAILS
C9.03L	STORMWATER CONTROL MEASURE "L" LANDSCAPE PLAN
L5.13	LANDSCAPE PLAN - AREA "M"
L5.14	LANDSCAPE PLAN - AREA "N"
L5.17	LANDSCAPE PLAN - AREA "Q"
L5.18	LANDSCAPE PLAN - AREA "R"
L5.20	LANDSCAPE NOTES AND CALCULATIONS
1 OF 1	SITE LIGHTING ARRANGEMENT

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CONTACT

MIKE SANCHEZ
sanchez@mcadamsco.com
PHONE: 919. 361. 5000

CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

ASHTON WOODS

PROJECT DIRECTORY

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 16:43:17-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

CONSTRUCTION DRAWINGS PACKAGE 3 FOR:

THE POINT
PHASES 8 AND 14
EAST YOUNG STREET
ROLESVILLE, NORTH CAROLINA
PROJECT NUMBER: AWH-20000

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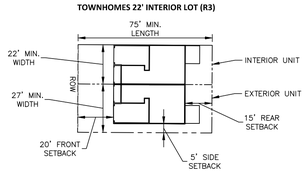
SITE AND OPEN SPACE AREAS

TOTAL SITE AREA	264.27 AC
RETAIL	12.28 AC
RESIDENTIAL	251.99 AC
R3	319 PROPOSED TOWNHOMES
R1	295 SINGLE FAMILY DETACHED
R2	190 SINGLE FAMILY DETACHED
TOTAL UNITS	804
OVERALL DENSITY	3.20 DU/AC
TOWNHOME AREA	46.79 AC
TOWNHOME DENSITY	6.9 DU/AC
ALLOWED DENSITY	6 DU/AC (ENTIRE SITE) 10 DU/AC (TOWNHOME)
OPEN SPACE REQUIRED: SINGLE FAMILY 10% SFD AREA (205.2 AC)	 20.52 AC REQUIRED
TOWNHOMES 15% TH AREA (46.79 AC) 35% ACTIVE OS AREA (7.02 AC)	 7.02 ACRE REQUIRED 2.46 ACRE REQUIRED
TOTAL OPEN SPACE REQUIRED:	27.54 AC
TOTAL OPEN SPACE PROVIDED:	15.76 AC ACTIVE OPEN SPACE 77.66 AC PASSIVE OPEN SPACE 93.42 TOTAL OPEN SPACE PROVIDED

TYPICAL LOT DIMENSIONS

SCALE 1" = 40'

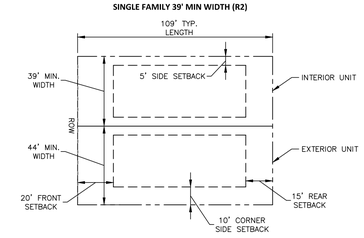
TOWNHOMES 22' INTERIOR LOT (R3)



SETBACKS:
15' REAR
20' FRONT
5' SIDE

MIN LOT AREA: 1645 SF
REFERENCE SHOWN FOR PRELIMINARY PLAN PURPOSES ONLY. TOWNHOME PLANS TO BE REMOVED UNDER SEPARATE SITE PLAN

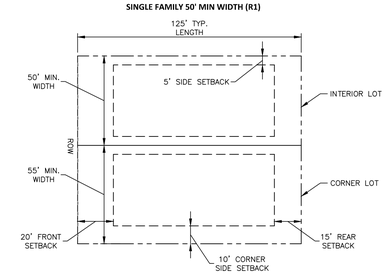
SINGLE FAMILY 39' MIN WIDTH (R2)



SETBACKS:
15' REAR
20' FRONT
5' SIDE
10' SIDE CORNER

MIN LOT AREA: 4,250 SF

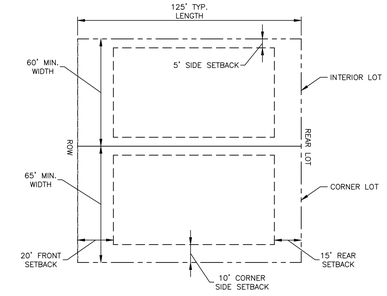
SINGLE FAMILY 50' MIN WIDTH (R1)



SETBACKS:
15' REAR
20' FRONT
5' SIDE
10' SIDE CORNER

MIN LOT AREA: 6,000 SF

SINGLE FAMILY 60' MIN WIDTH (NOMINAL) (R1)



SETBACKS:
15' REAR
20' FRONT
5' SIDE
10' SIDE CORNER

MIN LOT AREA: 6,000 SF

OPEN SPACE REQUIREMENTS

OPEN SPACE	AREA (AC) APPROXIMATE ACTIVE	PASSIVE	TOTAL	USE DESCRIPTION
OS-4		3.61	157,160 SF (3.61 AC)	
OS-5	2.38	10.74	571,471 SF (13.12 AC)	PUBLIC GREENWAY, EXERCISE STATION
OS-6	0.82	0.54	59,307 SF (1.36 AC)	PLAY AREA
OS-7	1.00	4.18	225,677 SF (5.18 AC)	PUBLIC GREENWAY WITH PRIVATE GREENWAY ACCESS
OS-8	1.60	12.94	633,331 SF (14.54 AC)	PUBLIC/PRIVATE GREENWAY WITH ACCESS TO PUBLIC GREENWAY, PLAY AREA, MAIL KIOSK
OS-9		5.52	240,571 SF (5.52 AC)	
OS-10		0.35	15,257 SF (0.35 AC)	
OS-11		0.71	30,965 SF (0.71 AC)	
OS-12	0.25	9.24	413,585 SF (9.49 AC)	DOG PARK
OS-13		0.37	16,056 SF (0.37 AC)	
OS-14	0.74	8.26	392,111 SF (9.00 AC)	PRIVATE GREENWAY TRAIL, PLAYGROUND, MAIL KIOSK
OS-15		1.02	44,524 SF (1.02 AC)	
OS-16		0.51	22,321 SF (0.51 AC)	
OS-17	3.13	2.91	263,131 SF (6.04 AC)	AMENITY WITH POOL, CLUBHOUSE, MAIL KIOSK, PRIVATE TRAIL CONNECTION
OS-18	4.88	10.94	689,086 SF (15.82 AC)	PUBLIC GREENWAY, STREET SIDE GREENWAY CONNECTION
OS-19		0.44	19,221 SF (0.44 AC)	
OS-20	0.77	1.56	101,556 SF (2.33 AC)	PLAYGROUND, PICNIC AREA
OS-21		0.90	39,370 SF (0.90 AC)	
OS-22		0.35	15,164 SF (0.35 AC)	
OS-23	0.19	0.24	18,826 SF (0.43 AC)	LINEAR PARK
OS-24		0.29	12,492 SF (0.29 AC)	
OS-25		0.43	18,907 SF (0.43 AC)	
OS-26		0.07	2,909 SF (0.07 AC)	
OS-27		0.12	5,072 SF (0.12 AC)	
OS-28		0.13	5,491 SF (0.13 AC)	
OS-29		0.19	8,278 SF (0.19 AC)	
OS-30		0.12	5,391 SF (0.12 AC)	
OS-31		0.33	14,304 SF (0.33 AC)	
OS-32		0.20	8,761 SF (0.20 AC)	
TOTAL	15.76	77.21	4,051,989 SF (93.02 AC)	SOUTH OF 401 BYPASS

SETBACKS (SOUTH OF 401 BYPASS)

R1 PUD	
FRONT (FRONT LOAD)	20 FT
SIDE	5 FT
AGGREGATE SIDE	10 FT
CORNER SIDE	10 FT
REAR	15 FT
MIN LOT WIDTH	50 FT
MIN LOT AREA	6,000 FT
R2 PUD	
FRONT (FRONT LOAD)	20 FT
FRONT (ALLEY LOAD)	10 FT
SIDE	5 FT
AGGREGATE SIDE	10 FT
CORNER SIDE	10 FT
REAR (FRONT LOAD)	15 FT
REAR (ALLEY LOAD)	5 FT (RIGHT-OF-WAY)
MIN LOT WIDTH	35 FT
R3 PUD	
FRONT	20 FT
SIDE	5 FT (END UNIT)
REAR	15 FT
MIN WIDTH	20 FT

REQUIRED TOWNHOME PARKING

AREA 1	LOTS 626-740		
AREA 2	LOTS 406-469, 473-538, 620-625		
AREA 3	LOTS 268-335		
	AREA 1	AREA 2	AREA 3
TOTAL UNITS	115	136	68
TOTAL 3 BEDROOM HOMES	86	102	51
TOTAL 2 BEDROOM HOMES	29	34	17
VISITOR PARKING NEEDED	73	85	43
MAIL KIOSK PARKING	5	6	3
TOTAL REQUIRED PARKING	302	357	179
TOTAL END UNITS (END UNITS HAVE 2 SPACES FOR DRIVEWAY PARKING)	40	38	22
PROVIDED PARKING:			
GARAGE PARKING	115	136	68
DRIVEWAY PARKING	155	174	90
STREET PARKING	54	63	31
MAIL KIOSK PARKING	5	6	3
PARKING LOT SPACES	17	49	6
TOTAL PROVIDED PARKING	346	428	198

MAIL KIOSK CALCULATIONS

NUMBER OF MAIL BOXES(UNITS)	REQUIRED PARKING SPACES
52 OR LESS	2
53-78	3
79-104	4
105 OR MORE	4 PLUS 1 PER EACH ADDITIONAL 26 MAILBOXES

MAIL KIOSK AREA 1
MAIL KIOSK CALCULATION:
PHASES 1, 2, 6, 7, AND 9 (312 UNITS)
312 UNITS @ 16 UNITS/KIOSK (CBU) = 21 KIOSKS (CBUs)

MAIL KIOSK PARKING: 312 UNITS
REQUIRED: 12 SPACES
PROVIDED: 12 SPACES (1 ACCESSIBLE)

MAIL KIOSK AREA 2
MAIL KIOSK CALCULATION:
PHASE 10 (68 UNITS)
68 UNITS @ 16 UNITS/KIOSK (CBU) = 5 KIOSKS (CBUs)

MAIL KIOSK PARKING: 68 UNITS
REQUIRED: 3 SPACES
PROVIDED: 9 SPACES (1 ACCESSIBLE)

MAIL KIOSK AREA 3
MAIL KIOSK CALCULATION:
PHASES 3, 4, AND 5 (245 UNITS)
245 UNITS @ 16 UNITS/KIOSK (CBU) = 16 KIOSKS (CBUs)

MAIL KIOSK PARKING: 245 UNITS
REQUIRED: 10 SPACES
PROVIDED: 11 SPACES (1 ACCESSIBLE)

MAIL KIOSK AREA 4
MAIL KIOSK CALCULATION:
PHASE 8 AND 14 (179 UNITS)
179 UNITS @ 16 UNITS/KIOSK (CBU) = 12 KIOSKS (CBUs)

MAIL KIOSK PARKING: 179 UNITS
REQUIRED: 7 SPACES
PROVIDED: 14 SPACES (2 ACCESSIBLE)

SITE PLAN NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF ROLESVILLE AND/OR NCDOT STANDARDS AND SPECIFICATIONS AS APPLICABLE.
2. ALL DIMENSIONS SHOWN ON SITE PLAN ARE MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE ENGINEER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE OWNER.
4. EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER, BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
5. THE CONTRACTOR SHALL NOTE THAT THE DRAWINGS MAY NOT SHOW EVERY OFFSET, TRANSITION, FITTING, ETC. THAT MAY BE REQUIRED. THE CONTRACTOR SHALL INSTALL SUCH STANDARD APPURTENANCES AS REQUIRED TO CLOSELY FOLLOW THE GRADES AND ALIGNMENTS DEPICTED ON THE PLANS.
6. CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
7. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES FOR ANY REQUIRED RELOCATIONS (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
8. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION, FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
9. ACCESSIBLE RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NCDOT DETAILS.
10. ALL SIDEWALKS THAT CONNECT TO THE PUBLIC RIGHT-OF-WAY MUST BE ACCESSIBLE TO PERSONS WHO ARE BLIND, HAVE LOW VISION AND PEOPLE WITH MOBILITY DISABILITIES. PEDESTRIAN EXISTING ROUTES AND ALTERNATE PEDESTRIAN ROUTES DURING CONSTRUCTION WILL BE REQUIRED TO BE COMPLIANT WITH THE PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG), 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
11. TYPICAL PAVEMENT SECTION DETAILS ARE SHOWN WITHIN THIS SET AND INTENDED TO BE A MINIMUM PAVEMENT SECTION REQUIREMENT. THE CURRENT GEOTECHNICAL REPORT SHALL OVER-RIDE ALL TYPICAL PAVEMENT SECTIONS SHOWN, IF THE GEOTECHNICAL ENGINEER DEEMS A HEAVIER SECTION IS REQUIRED.
12. EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED PROVIDED APPROVAL HAS BEEN OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONTRACTOR SHALL WAIVE ANY CLAIM FOR ADDITIONAL COST RELATED TO SUBSTITUTION OF ALTERNATE EQUIPMENT.
13. ALL SIGNAGE ASSOCIATED WITH THE PUBLIC STREET SYSTEM SHALL ADHERE TO MUTCD STANDARDS AND SPECIFICATIONS.

FIRE LANE NOTES:

1. FIRE LANES SHOWN ON THESE PLANS WILL INCLUDE A 20' WIDE LANE PAVED WITH "GRASSPAVE2" PAVER SYSTEM, OR APPROVED EQUAL.
2. FIRE LANES SHALL BE MARKED WITH PRECAST CONCRETE OR BRICK PAVERS 12"x12" PLACED ALONG EACH SIDE OF THE FIRELANE FOR EVERY 10 FEET OF LENGTH.
3. IF FIRE LANE ENCROACHES INTO A LOT, AN EASEMENT WILL BE INCLUDED 1 FOOT AROUND FIRE LANE.

RETAINING WALL NOTES

1. THE RETAINING WALL ALIGNMENT SHOWN ON THESE PLANS DEPICTS THE LOCATION OF THE FRONT FACE OF THE RETAINING WALL AT THE TOP OF THE WALL. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING RETAINING WALLS ARE NOT LOCATED IN ANY STREAM BUFFERS, AND THEIR CONSTRUCTION DOES NOT ENCROACH INTO ANY ADJACENT PROPERTIES DUE TO ANY BATTER INCORPORATED IN THE DESIGN OF THE WALLS.
2. RETAINING WALLS ARE TO BE DESIGN-BUILD PROJECTS BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FINAL CONSTRUCTION DRAWINGS FROM A REGISTERED ENGINEER AND GAIN ALL REQUIRED PERMITS NECESSARY FOR THE CONSTRUCTION OF THE RETAINING WALLS.
3. RETAINING WALLS SHALL BE ASSUMED TO BE BACKFILLED WITH OFF-SITE BORROW MATERIAL OR PROCESSED FILL, UNLESS THE CONTRACTOR CAN PROVIDE TO THE OWNER WITH CONFIRMATION FROM THE GEOTECHNICAL ENGINEER AND THE RETAINING WALL DESIGNER, THAT READILY AVAILABLE ON-SITE SOILS CAN BE USED.
4. THE TOP AND BOTTOM OF WALL ELEVATIONS SHOWN ON THESE PLANS IDENTIFY FINISHED GRADE ELEVATIONS ONLY. THE EXTENT THAT THE RETAINING WALL WILL BE EXTENDED BELOW GRADE TO THE FOOTING OR ABOVE GRADE TO THE TOP OF THE CAP BLOCK COURSE SHALL BE IDENTIFIED ON THE RETAINING WALL CONSTRUCTION DRAWINGS.
5. ALL RETAINING WALLS OVER 30" HIGH SHALL HAVE A SAFETY FENCE (DESIGN BY OTHERS).
6. ANY TIEBACK SYSTEMS FOR THE RETAINING WALLS SHALL NOT BE ALLOWED WITHIN PUBLIC RIGHT-OF-WAY.

CORPUD APPROVAL CONDITION:

CONVEYANCE OF SEWAGE FROM THE PROPOSED LOTS WITHIN THE POINT SOUTH CD PACKAGE #3 WILL RELY ON IMPROVEMENTS TO THE HARRIS CREEK INTERCEPTOR THAT ARE BEING DESIGNED BY McADAMS AND AMERICAN ENGINEERING. THE PLAN SET BY McADAMS IS TITLED HARRIS CREEK INTERCEPTOR IMPROVEMENTS AND WILL BE ASSIGNED PERMIT # S-4979. THE PLAN SET BY AMERICAN ENGINEERING IS TITLED HARRIS CREEK SANITARY SEWER REPLACEMENT AND WILL BE ASSIGNED PERMIT # S-5037. THE POINT SOUTH CD PACKAGE #3 LOTS WILL NOT BE RECORDED AND THE ONSITE WATER/SEWER UTILITIES WILL NOT BE ACCEPTED BY RALEIGH UNTIL THE HARRIS CREEK INTERCEPTOR IMPROVEMENTS UNDER PERMITS # S-4979 AND # S-5037 ARE APPROVED, INSTALLED, AND ACCEPTED BY RALEIGH FOR MAINTENANCE.

GRADING NOTES

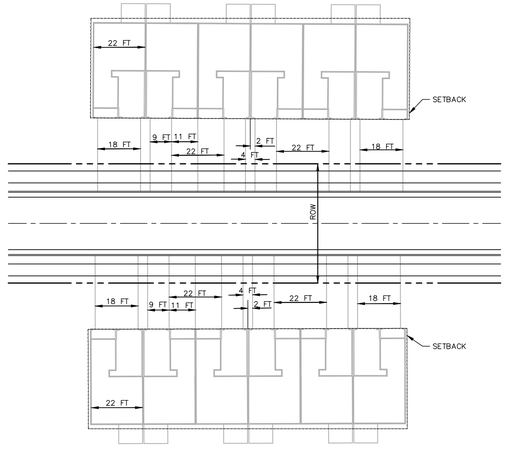
1. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION, FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
2. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH. EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER, PROVIDED BY CONTRACTOR RESPONSIBLE FOR EXCAVATION.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ROLESVILLE AND/OR NCDOT STANDARDS AND SPECIFICATIONS AS APPLICABLE.
4. CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
5. CONSTRUCTION, MAINTENANCE AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. TIMING OF REMOVAL SHALL BE COORDINATED WITH THE EROSION CONTROL INSPECTOR.
6. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
7. SOIL UNDER BUILDINGS, PAVED AREAS AND WITHIN SLOPES GREATER THAN 3:1 (H:V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

STORM DRAINAGE NOTES

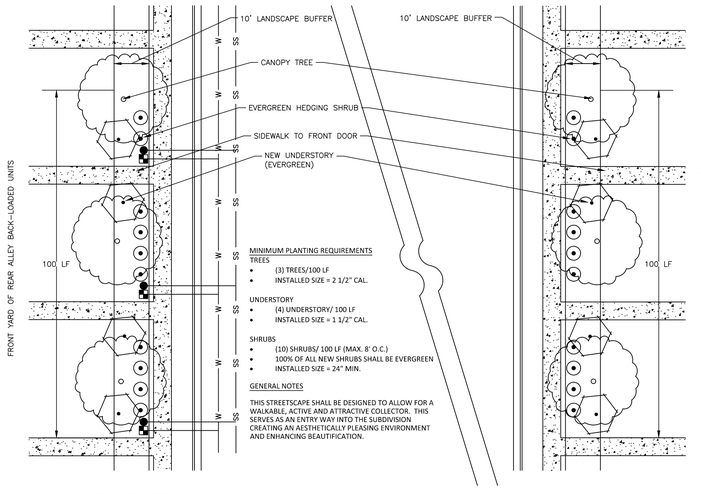
1. ALL STORM DRAINAGE PIPES SHOWN SHALL BE REINFORCED CONCRETE (RCP) (MINIMUM CLASS III) UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE WITH THE GEOTECH TO VERIFY TYPE OF BEDDING REQUIRED BASED ON SOIL CONDITIONS. CONTRACTOR TO SELECT REQUIRED CLASS OF PIPE BASED ON DEPTH OF PIPE AND BEDDING PROVIDED PER THE AMERICAN CONCRETE PIPE ASSOCIATION GUIDELINES.
2. ALL STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ROLESVILLE STANDARDS.
3. ALL CONCRETE SHALL MEET A MINIMUM 3000 PSI COMPRESSIVE STRENGTH.
4. ALL PIPE IN STORM DRAIN STRUCTURES SHALL BE STRUCK EVEN WITH INSIDE WALL.
5. ALL PIPE JOINTS SHALL BE MADE WITH PREFORMED JOINT SEALER, WHICH CONFORMS TO AASHTO SPECIFICATION M-198 FOR TYPE B FLEXIBLE PLASTIC GASKETS UNLESS OTHERWISE NOTED.
6. THE INTERIOR SURFACES OF ALL STORM DRAINAGE STRUCTURES SHALL BE POINTED UP AND SMOOTHED TO AN ACCEPTABLE STANDARD, USING MORTAR MIXED TO MANUFACTURER'S SPECIFICATIONS.
7. ALL BACKFILL SHALL BE NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATION MATTER, WASTE CONSTRUCTION MATERIAL OR OTHER OBJECTIONABLE MATERIAL. SAID MATERIAL SHALL BE CAPABLE OF BEING COMPACTED BY MECHANICAL MEANS AND SHALL HAVE NO TENDENCY TO FLOW OR BEHAVE IN A PLASTIC MANNER UNDER THE TAMPING BLOWS OR PROOF ROLLING.
8. MATERIALS DEEMED BY THE OWNER'S REPRESENTATIVE OR GEOTECH AS UNSUITABLE FOR BACKFILL PURPOSES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
9. BACKFILLING OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PIPE IS LAID. THE FILL AROUND THE PIPE SHALL BE THOROUGHLY COMPACTED TO 95 % OF THE MAXIMUM DRY DENSITY OBTAINABLE WITH THE STANDARD PROCTOR TEST. THE TOP EIGHT (8) INCHES SHALL BE COMPACTED TO 100 PERCENT STANDARD PROCTOR.
10. UNDER NO CIRCUMSTANCES SHALL WATER BE ALLOWED TO RISE IN UNBACKFILLED TRENCHES AFTER PIPE HAS BEEN PLACED.
11. ALL CONCRETE PIPE AND PRECAST STORM STRUCTURES SHALL MEET NCDOT STANDARDS BY MANUFACTURER.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL PIPE AND STRUCTURES FOR CRACKS OR BREAKS, PRIOR TO INSTALLATION. ANY DAMAGED ITEMS SHALL NOT BE INSTALLED.

NOTES:

1. ROADS LABELED AS PUBLIC WILL BE DEDICATED AS PUBLIC ROW TO BE MAINTANED BY THE TOWN OF ROLESVILLE.
2. ROADS LABELED AS PRIVATE WILL BE DEDICATED AS PRIVATE AND BE MAINTAINED BY THE HOA.
3. GREENWAY EASEMENTS LABELED AS PUBLIC WILL BE DEDICATED AS PUBLIC AND BE MAINTAINED BY THE TOWN OF ROLESVILLE.
4. SANITARY SEWER EASEMENTS WILL BE DEDICATED AS PUBLIC EASEMENTS TO THE CITY OF RALEIGH.



TYPICAL TOWNHOME DRIVEWAY
SCALE 1"=30



QUARRY ROAD STREETSCAPE
NTS

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:09:49-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-N1
CHECKED BY	.
DRAWN BY	.
SCALE	N.T.S.
DATE	12. 13. 2023

SHEET

PROJECT NOTES AND SITE DETAILS

C0.00

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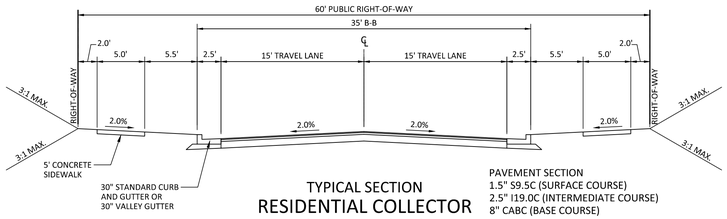
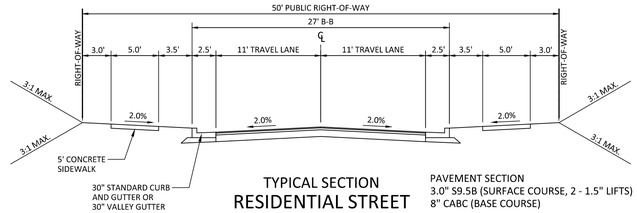


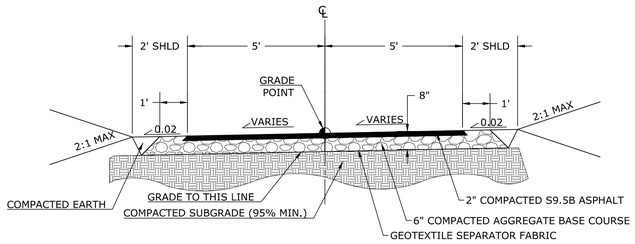
TYPICAL SECTION
RESIDENTIAL COLLECTOR
(60' R/W, 35' B-B)

PAVEMENT SECTION
1.5" S9.5C (SURFACE COURSE)
2.5" I19.0C (INTERMEDIATE COURSE)
8" CABC (BASE COURSE)



TYPICAL SECTION
RESIDENTIAL STREET
(50' R/W, 27' B-B)

PAVEMENT SECTION
3.0" S9.5B (SURFACE COURSE, 2 - 1.5" LIFTS)
8" CABC (BASE COURSE)



TYPICAL SECTION
10' WIDE PUBLIC GREENWAY

NOTE: THE PAVEMENT SECTIONS SHOWN ABOVE ARE PRELIMINARY AND HAVE NOT BEEN DESIGNED BASED ON EXISTING ON SITE SOIL CONDITIONS. FINAL DESIGN BY THE GEOTECHNICAL ENGINEER SHALL SUPERCEDE THE ABOVE PAVEMENT SECTION.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McAdams
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
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PHASES 8 AND 14
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EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:10:41-04'00'

REVISIONS

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2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-N1
CHECKED BY	.
DRAWN BY	.
SCALE	N.T.S.
DATE	12. 13. 2023

SHEET

TYPICAL SECTIONS

C0.01

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OPEN SPACE / TRAILS SUMMARY ENTIRE PROJECT

TOTAL PROJECT AREA	304.00 AC
TOTAL OPEN SPACE	PROVIDED: 146.59 AC
DEVELOPED/ACTIVE RECREATION OPEN SPACE	PROVIDED: 18.28 AC (12.4% OF TOTAL OPEN SPACE)
PROGRAMMED/PASSIVE OPEN SPACE (EXCLUDES WETLANDS, FLOODPLAINS, FLOODWAYS, STEEP SLOPES, ROCK OUTCROPS ENVIRONMENTAL AREAS)	PROVIDED: 92.13 AC (62.9%)
UNPROGRAMMED OPEN SPACE (INCLUDES WETLANDS, FLOODPLAINS, FLOODWAYS, STEEP SLOPES, ROCK OUTCROPS, ENVIRONMENTAL AREAS)	PROVIDED: 36.18 AC (25.7% OF TOTAL OPEN SPACE)
ROLESVILLE PUBLIC GREENWAY TRAIL LINEAR FEET	PROPOSED: 11,325 LF
PRIVATE WALKING TRAIL LINEAR FEET	PROPOSED: +/– 1,922 LF

OPEN SPACE AREAS ENTIRE PROJECT

OPEN SPACE	CD PACKAGE #	AREA (AC) APPROXIMATE			USE DESCRIPTION
		ACTIVE	PASSIVE	TOTAL	
THE POINT – NORTH					
OS–1	FUTURE	2.52	13.82	711,141 SF (16.33 AC)	OUTDOOR GRILLING W/ SEATING, PLAYGROUND, DOG PARK, MAIL KIOSK, 6' PAVED GREENWAY TRAIL WITH CONNECTION TO PUBLIC GREENWAY, 10' PRIVATE GREENWAY
OS–2	FUTURE		0.20	8,712 SF (0.20 AC)	
OS–3	FUTURE		0.45	19,616 SF (0.45 AC)	
THE POINT – SOUTH					
OS–4	3		3.61	157,160 SF (3.61 AC)	
OS–5	3	2.38	10.74	571,471 SF (10.12 AC)	PUBLIC GREENWAY, EXERCISE STATION
OS–6	3	0.82	0.54	59,307 SF (1.36 AC)	PLAY AREA
OS–7	3	1.00	4.18	225,677 SF (5.18 AC)	PUBLIC GREENWAY WITH PRIVATE GREENWAY ACCESS
OS–8	2	1.60	12.94	633,331 SF (14.54 AC)	PUBLIC/PRIVATE GREENWAY WITH ACCESS TO PUBLIC GREENWAY, PLAY AREA, MAIL KIOSK
OS–9	2		5.52	240,571 SF (5.52 AC)	
OS–10	2		0.35	15,257 SF (0.35 AC)	
OS–11	2		0.71	30,965 SF (0.71 AC)	
OS–12	1	0.25	9.24	413,585 SF (9.49 AC)	DOG PARK
OS–13	1		0.37	16,056 SF (.37 AC)	
OS–14	1	0.74	8.26	392,111 SF (9.00 AC)	PRIVATE GREENWAY TRAIL, PLAY AREA, MAIL KIOSK
OS–15	2		1.02	44,524SF (1.02 AC)	
OS–16	2		0.51	22,321 SF (0.51 AC)	
OS–17	1	3.13	2.91	263,131 SF (6.04 AC)	AMENITY WITH POOL, CLUBHOUSE, MAIL KIOSK, PRIVATE TRAIL CONNECTION
OS–18	1	4.88	10.94	689,086 SF (15.82 AC)	PUBLIC GREENWAY, PUBLIC STREET SIDE GREENWAY CONNECTION
OS–19			0.44	19,221 SF (0.44 AC)	
OS–20	1	0.77	1.56	101,556 SF (2.33 AC)	PLAYGROUND, PICNIC AREA
OS–21	2		0.90	39,370 SF (0.90 AC)	
OS–22	2		0.35	15,164 SF (0.35 AC)	
OS–23	2	0.19	0.24	18,826 SF (0.43 AC)	LINEAR PARK
OS–24	1		0.29	12,492 SF (0.29 AC)	
OS–25	1		0.43	18,907 SF (0.43 AC)	
OS–26	1		0.07	2,909 SF (0.07 AC)	
OS–27	1		0.12	5,072 SF (0.12 AC)	
OS–28	1		0.13	5,491 SF (0.13 AC)	
OS–29	2		0.19	8,278 SF (0.19 AC)	
OS–30	2		0.12	5,391 SF (0.12 AC)	
OS–31	3		0.33	14,304 SF 0.33 AC)	
OS–32	3		0.20	8,761 SF (0.20 AC)	
TOTAL		18.28	91.68	4,791,458 SF (110 AC)	ENTIRE PROJECT

SITE LEGEND

- PHASE LINE
- WETLANDS
- UNPROGRAMMED OPEN SPACE
- PROGRAMMED/PASSIVE OPEN SPACE
- DEVELOPED / ACTIVE RECREATION SPACE
- OS–# OPEN SPACE (OS) NUMBER
- FUTURE PHASE

NOTE: FUTURE PHASES SHOWN FOR TOTAL OPEN SPACE CALCULATIONS ONLY

SITE AND OPEN SPACE AREAS - CD PKG 3

TOTAL SITE AREA	264.27 AC
RETAIL	12.28 AC
RESIDENTIAL	251.99 AC
R3	319 PROPOSED TOWNHOMES
R1	295 SINGLE FAMILY DETACHED
R2	190 SINGLE FAMILY DETACHED
TOTAL UNITS	804
OVERALL DENSITY	3.20 DU/AC
TOWNHOME AREA	46.79 AC
TOWNHOME DENSITY	6.9 DU/AC
ALLOWED DENSITY	6 DU/AC (ENTIRE SITE) 10 DU/AC (TOWNHOME)
OPEN SPACE REQUIRED: SINGLE FAMILY 10% SFD AREA (205.2 AC)	 20.52 AC REQUIRED
TOWNHOMES 15% TH AREA (46.79 AC) 35% ACTIVE OS AREA (7.02 AC)	 7.02 ACRE REQUIRED 2.46 ACRE REQUIRED
TOTAL OPEN SPACE REQUIRED:	27.54 AC
TOTAL OPEN SPACE PROVIDED:	15.76 AC ACTIVE OPEN SPACE 77.21 AC PASSIVE OPEN SPACE 93.02 TOTAL OPEN SPACE PROVIDED

GRAPHIC SCALE
0 125 250 500
1 inch = 250 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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2905 Meridian Parkway
Durham, NC 27713

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ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA LANDSCAPE ARCHITECT 2027 SARA RUNGE DONOE
Sara Runge Donoe 2024.05.01 15:09:08 -04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-01-OSP2
CHECKED BY	SRD
DRAWN BY	JGY
SCALE	1"=250'
DATE	12. 13. 2023

SHEET

OPEN SPACE PLAN

C0.02

SITE PLAN NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF ROLESVILLE AND/OR NCDOT STANDARDS AND SPECIFICATIONS AS APPLICABLE.
2. ALL DIMENSIONS SHOWN ON SITE PLAN ARE MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE ENGINEER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE OWNER.
4. EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER, BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
5. THE CONTRACTOR SHALL NOTE THAT THE DRAWINGS MAY NOT SHOW EVERY OFFSET, TRANSITION, FITTING, ETC. THAT MAY BE REQUIRED. THE CONTRACTOR SHALL INSTALL SUCH STANDARD APPURTENANCES AS REQUIRED TO CLOSELY FOLLOW THE GRADES AND ALIGNMENTS DEPICTED ON THE PLANS.
6. CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
7. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES FOR ANY REQUIRED RELOCATIONS (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
8. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION, FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
9. ACCESSIBLE RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NCDOT DETAILS.
10. ALL SIDEWALKS THAT CONNECT TO THE PUBLIC RIGHT-OF-WAY MUST BE ACCESSIBLE TO PERSONS WHO ARE BLIND, HAVE LOW VISION AND PEOPLE WITH MOBILITY DISABILITIES. PEDESTRIAN EXISTING ROUTES AND ALTERNATE PEDESTRIAN ROUTES DURING CONSTRUCTION WILL BE REQUIRED TO BE COMPLIANT WITH THE PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG), 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
11. TYPICAL PAVEMENT SECTION DETAILS ARE SHOWN WITHIN THIS SET AND INTENDED TO BE A MINIMUM PAVEMENT SECTION REQUIREMENT. THE CURRENT GEOTECHNICAL REPORT SHALL OVER-RIDE ALL TYPICAL PAVEMENT SECTIONS SHOWN, IF THE GEOTECHNICAL ENGINEER DEEMS A HEAVIER SECTION IS REQUIRED.
12. EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED PROVIDED APPROVAL HAS BEEN OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONTRACTOR SHALL WAIVE ANY CLAIM FOR ADDITIONAL COST RELATED TO SUBSTITUTION OF ALTERNATE EQUIPMENT.
13. ALL SIGNAGE ASSOCIATED WITH THE PUBLIC STREET SYSTEM SHALL ADHERE TO MUTCD STANDARDS AND SPECIFICATIONS.

NOTES:

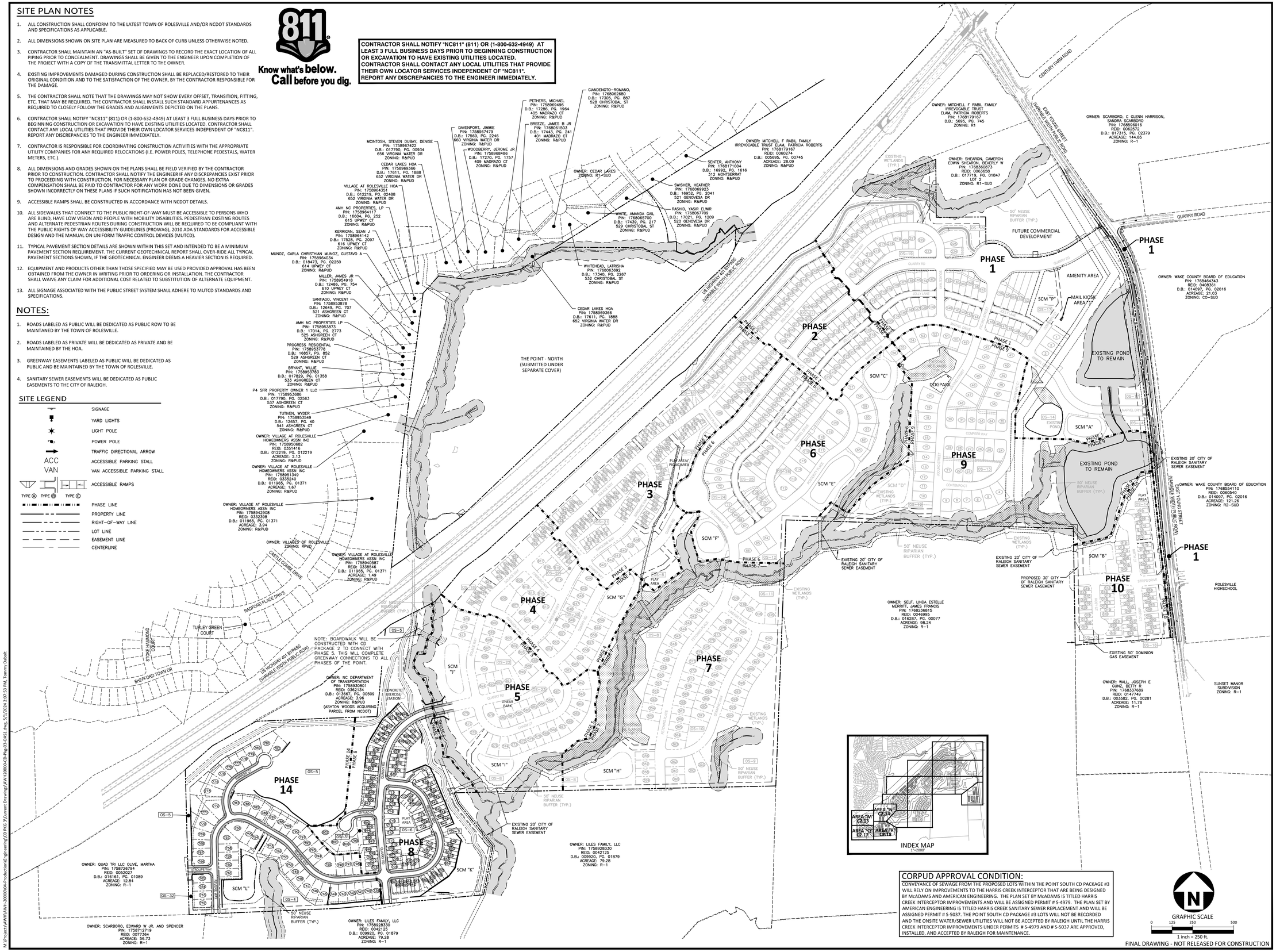
1. ROADS LABELED AS PUBLIC WILL BE DEDICATED AS PUBLIC ROW TO BE MAINTANED BY THE TOWN OF ROLESVILLE.
2. ROADS LABELED AS PRIVATE WILL BE DEDICATED AS PRIVATE AND BE MAINTAINED BY THE HOA.
3. GREENWAY EASEMENTS LABELED AS PUBLIC WILL BE DEDICATED AS PUBLIC AND BE MAINTAINED BY THE TOWN OF ROLESVILLE.
4. SANITARY SEWER EASEMENTS WILL BE DEDICATED AS PUBLIC EASEMENTS TO THE CITY OF RALEIGH.

SITE LEGEND

- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACC — ACCESSIBLE PARKING STALL
- VAN — VAN ACCESSIBLE PARKING STALL
- ACCESSIBLE RAMPS (TYPE A, TYPE B, TYPE C)
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE

811 Know what's below. Call before you dig.

CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



CORPUD APPROVAL CONDITION:
CONVEYANCE OF SEWAGE FROM THE PROPOSED LOTS WITHIN THE POINT SOUTH CD PACKAGE #3 WILL RELY ON IMPROVEMENTS TO THE HARRIS CREEK INTERCEPTOR THAT ARE BEING DESIGNED BY McADAMS AND AMERICAN ENGINEERING. THE PLAN SET BY McADAMS IS TITLED HARRIS CREEK INTERCEPTOR IMPROVEMENTS AND WILL BE ASSIGNED PERMIT # S-4979. THE PLAN SET BY AMERICAN ENGINEERING IS TITLED HARRIS CREEK SANITARY SEWER REPLACEMENT AND WILL BE ASSIGNED PERMIT # S-5037. THE POINT SOUTH CD PACKAGE #3 LOTS WILL NOT BE RECORDED AND THE ONSITE WATER/SEWER UTILITIES WILL NOT BE ACCEPTED BY RALEIGH UNTIL THE HARRIS CREEK INTERCEPTOR IMPROVEMENTS UNDER PERMITS # S-4979 AND # S-5037 ARE APPROVED, INSTALLED, AND ACCEPTED BY RALEIGH FOR MAINTENANCE.

GRAPHIC SCALE
0 125 250 500
1 inch = 250 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawing\AWH20000-CD-Pkg-03-OAS1.dwg, 5/1/2024 2:07:53 PM, Tommy Daboll

McADAMS
The John R. McAdams Company, Inc.
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Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:14:23-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-OAS1
CHECKED BY	WTO
DRAWN BY	JKD
SCALE	1"=250'
DATE	12. 13. 2023

SHEET

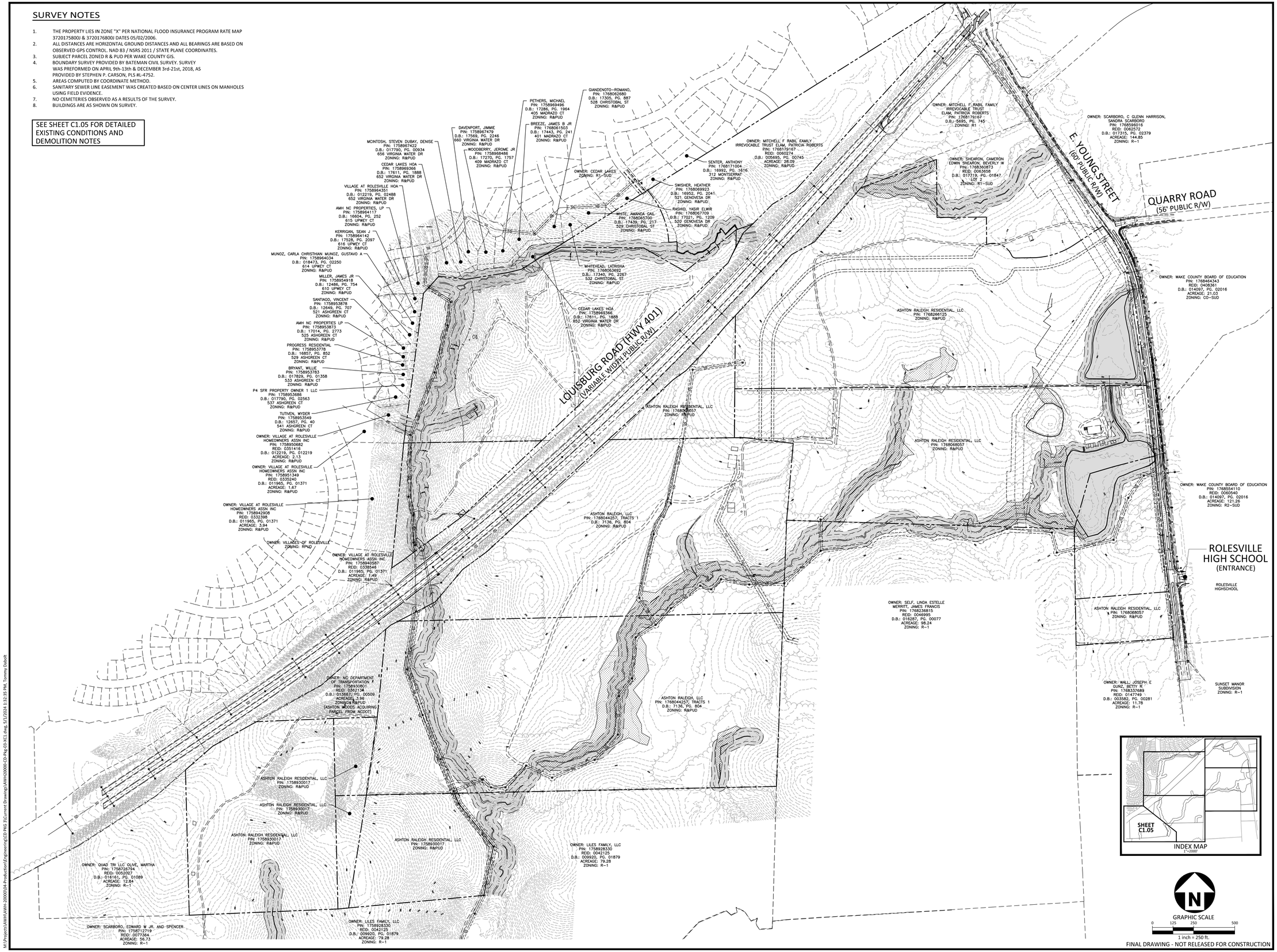
OVERALL MASTER SITE PLAN

C0.03

SURVEY NOTES

1. THE PROPERTY LIES IN ZONE "X" PER NATIONAL FLOOD INSURANCE PROGRAM RATE MAP 3720175800J & 3720176800J DATES 05/02/2006.
2. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE BASED ON OBSERVED GPS CONTROL. NAD 83 / NSRS 2011 / STATE PLANE COORDINATES.
3. SUBJECT PARCEL ZONED R & PUD PER WAKE COUNTY GIS.
4. BOUNDARY SURVEY PROVIDED BY BATEMAN CIVIL SURVEY. SURVEY WAS PREFORMED ON APRIL 9th-13th & DECEMBER 3rd-21st, 2018, AS PROVIDED BY STEPHEN P. CARSON, PLS #L-4752.
5. AREAS COMPUTED BY COORDINATE METHOD.
6. SANITARY SEWER LINE EASEMENT WAS CREATED BASED ON CENTER LINES ON MANHOLES USING FIELD EVIDENCE.
7. NO CEMETERIES OBSERVED AS A RESULTS OF THE SURVEY.
8. BUILDINGS ARE AS SHOWN ON SURVEY.

SEE SHEET C1.05 FOR DETAILED EXISTING CONDITIONS AND DEMOLITION NOTES



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

REVISIONS

NO.	DATE	
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2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

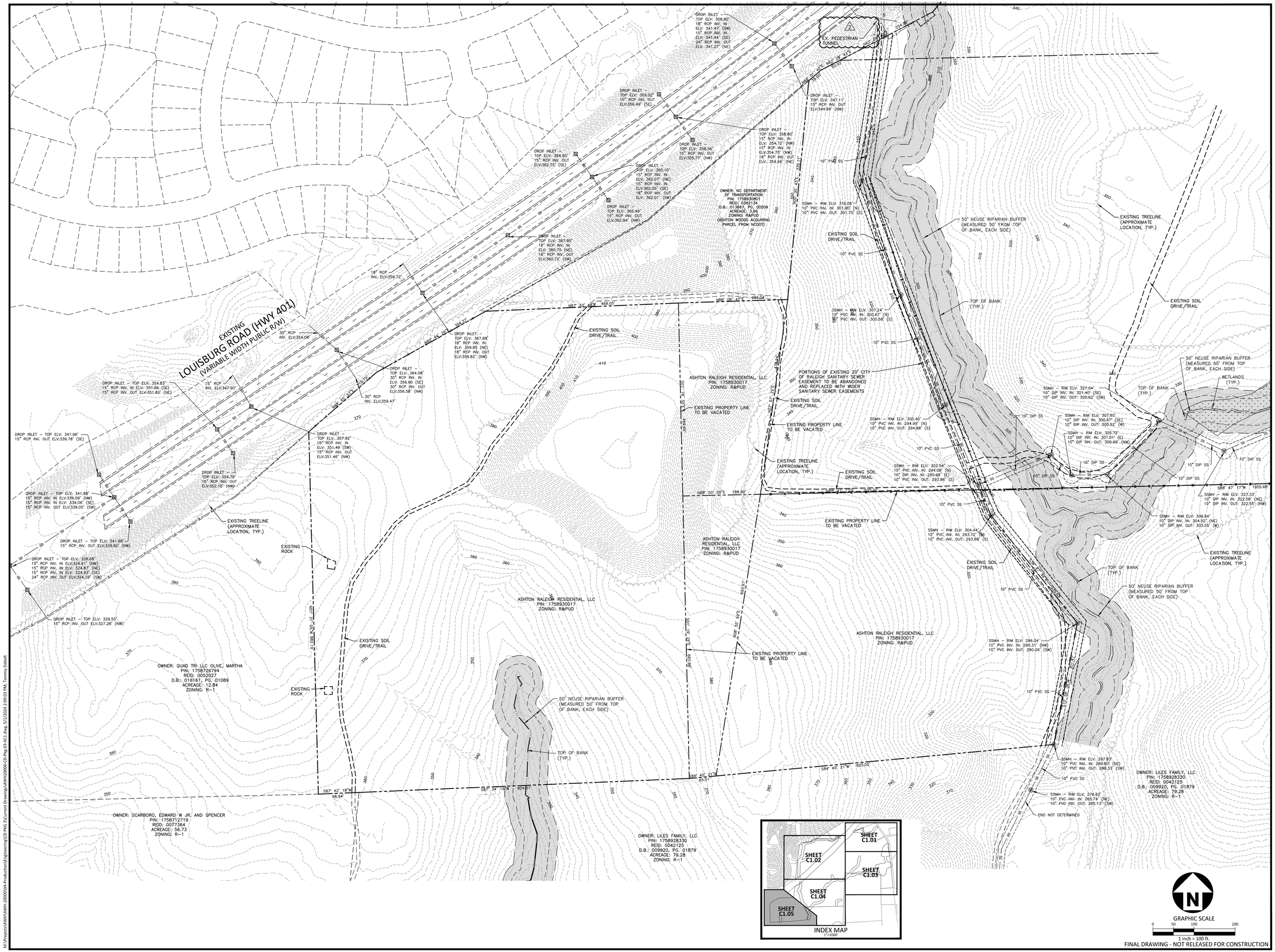
PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-XC1
CHECKED BY	.
DRAWN BY	.
SCALE	1"=250'
DATE	12. 13. 2023

SHEET

OVERALL EXISTING CONDITIONS

C1.00



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TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

NOTE:
NC PE SEAL APPLIES TO DEMOLITION ONLY AND NOT THE EXISTING CONDITIONS SURVEY

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-01-XC1
CHECKED BY	.
DRAWN BY	.
SCALE	1"=100'
DATE	12. 13. 2023

SHEET

EXISTING CONDITIONS AND DEMOLITION PLAN

C1.05

SITE PLAN NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF ROLESVILLE AND/OR NCDOT STANDARDS AND SPECIFICATIONS AS APPLICABLE.
2. ALL DIMENSIONS SHOWN ON SITE PLAN ARE MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE ENGINEER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE OWNER.
4. EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER, BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
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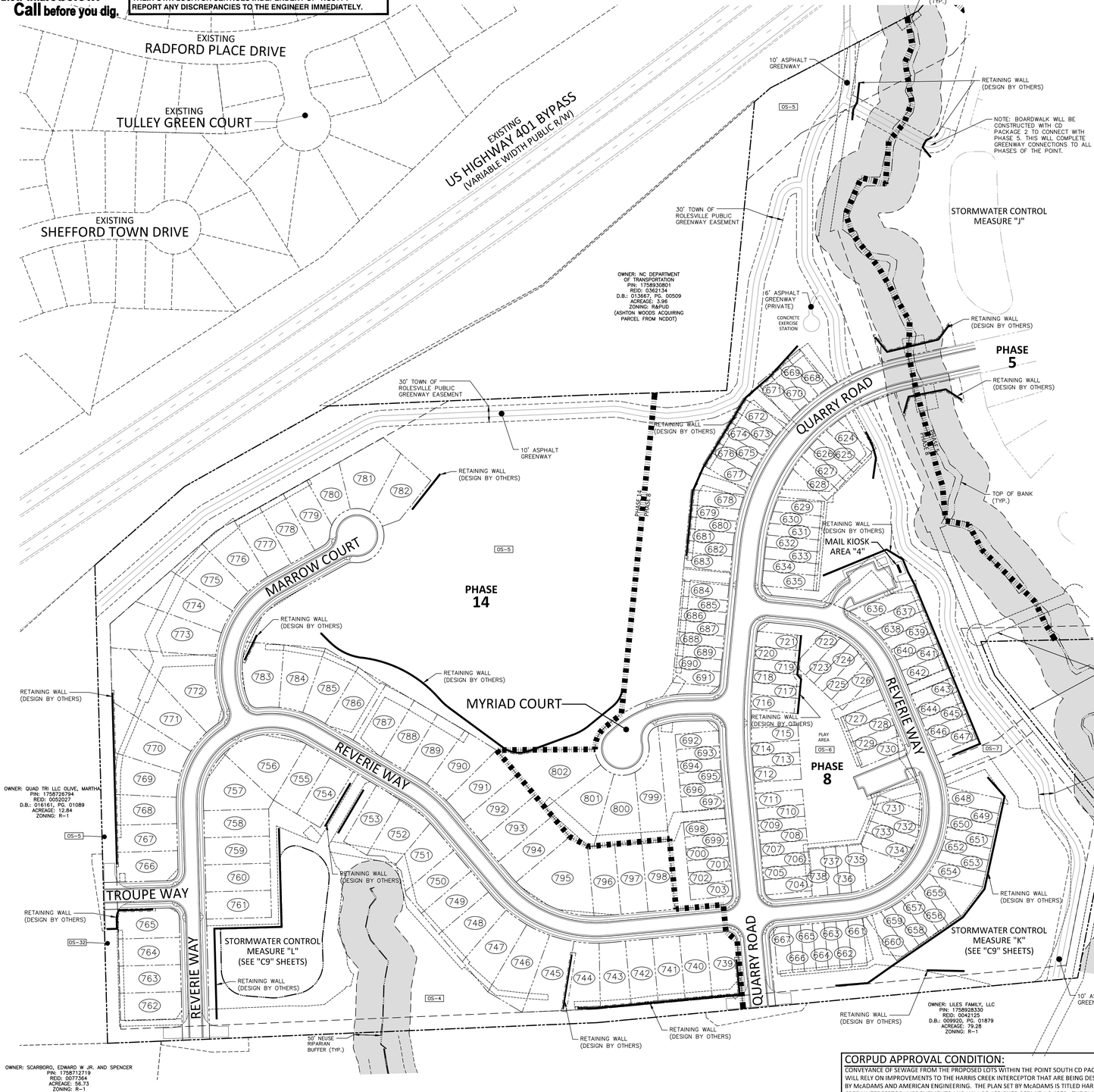

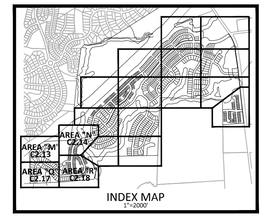

MAXIMUM IMPERVIOUS SURFACE PER LOT

LOT #	AREA (SF)
624	1749
625	1749
626	1749
627	1749
628	1749
629	1515
630	1515
631	1515
632	1515
633	1515
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793	3615
794	3615
795	3615
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798	3615
799	3615
800	3615
801	3615
802	3615

CORPUD APPROVAL CONDITION:

CONVEYANCE OF SEWAGE FROM THE PROPOSED LOTS WITHIN THE POINT SOUTH CD PACKAGE #3 WILL RELY ON IMPROVEMENTS TO THE HARRIS CREEK INTERCEPTOR THAT ARE BEING DESIGNED BY McADAMS AND AMERICAN ENGINEERING. THE PLAN SET BY McADAMS IS TITLED HARRIS CREEK INTERCEPTOR IMPROVEMENTS AND WILL BE ASSIGNED PERMIT # S-4979. THE PLAN SET BY AMERICAN ENGINEERING IS TITLED HARRIS CREEK SANITARY SEWER REPLACEMENT AND WILL BE ASSIGNED PERMIT # S-5037. THE POINT SOUTH CD PACKAGE #3 LOTS WILL NOT BE RECORDED AND THE ONSITE WATER/SEWER UTILITIES WILL NOT BE ACCEPTED BY RALEIGH UNTIL THE HARRIS CREEK INTERCEPTOR IMPROVEMENTS UNDER PERMITS # S-4979 AND # S-5037 ARE APPROVED, INSTALLED, AND ACCEPTED BY RALEIGH FOR MAINTENANCE.

GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:30:39-04'00'

REVISIONS

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PLAN INFORMATION

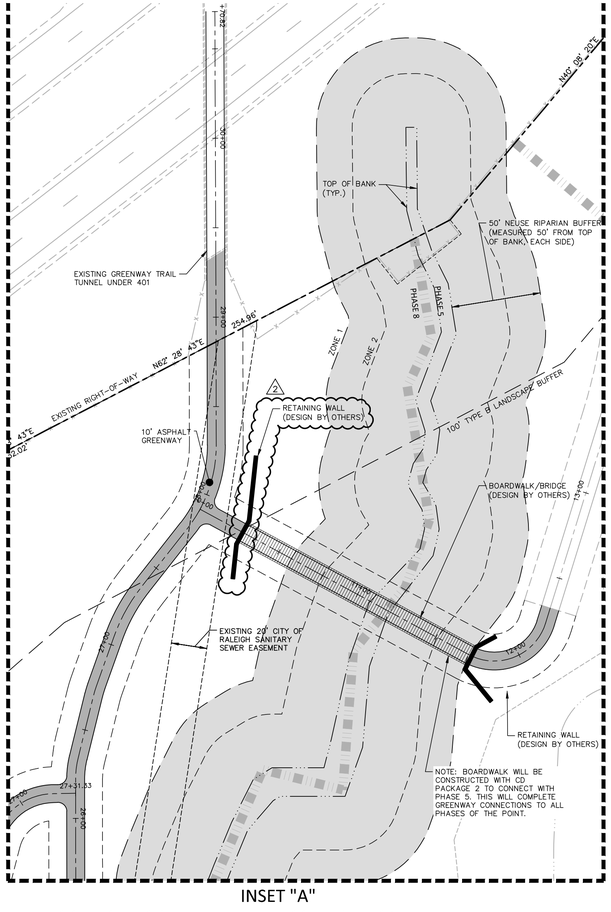
PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-OAS2
CHECKED BY	WTO
DRAWN BY	TKD
SCALE	1"=100'
DATE	12. 13. 2023

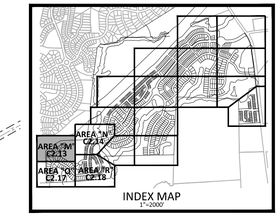
SHEET

CD PACKAGE 3 OVERALL SITE PLAN

C2.00

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-PKG-03-OAS2.dwg, 5/1/2024 12:01:17 PM, Tommy Daboll





30" VALLEY GUTTER WILL BE USED IN FRONT OF ALL FRONT LOADED SINGLE FAMILY LOTS AND TOWNHOME LOTS.

(DE) STORM DRAINAGE EASEMENT

EXISTING LOUISBURG ROAD (HWY 401) (VARIABLE WIDTH PUBLIC R/W)

OWNER: NC DEPARTMENT OF TRANSPORTATION
PIN: 1758930801
REID: 0362134
D.B.: 013667, PG. 00509
ACREAGE: 3.96
ZONING: R&PUD
(ASHTON WOODS ACQUIRING PARCEL FROM NCDOT)

N87° 33' 48"E 469.05'

30' TOWN OF ROLESVILLE PUBLIC GREENWAY EASEMENT

10' ASPHALT GREENWAY

N60° 44' 26"E 304.37'

EXISTING RIGHT-OF-WAY

OS-5

100' TYPE B LANDSCAPE BUFFER

781 8981 SF.

780 4864 SF.

782 7375 SF.

779 5705 SF.

778 6000 SF.

777 6139 SF.

776 7272 SF.

775 7698 SF.

774 9413 SF.

773 13400 SF.

772 12990 SF.

771 14713 SF.

770 9531 SF.

RETAINING WALL (DESIGN BY OTHERS)

S46° 45' 51"E 219.72'

10' ASPHALT GREENWAY

30' TOWN OF ROLESVILLE PUBLIC GREENWAY EASEMENT

EXISTING RIGHT-OF-WAY

100' TYPE B LANDSCAPE BUFFER

OS-5

MARROW COURT (50' PUBLIC R/W)

5' CONCRETE SIDEWALK

30" CURB AND GUTTER (SEE NOTE)

S29°11'07"E 11.01'

S60°40'53"W 174.81'

35'R

R=50.00' L=133.26'

RETAINING WALL ACCESS EASEMENT (TYP.)

RETAINING WALL (DESIGN BY OTHERS)

783 8091 SF.

784 7176 SF.

785 7050 SF.

786 7200 SF.

787 7200 SF.

788 6000 SF.

789 6422 SF.

ACCESSIBLE RAMP (TYP.)

REVERIE WAY (50' PUBLIC R/W)

5' CONCRETE SIDEWALK

OWNER: QUAD TRI LLC OLIVE, MARTHA
PIN: 1758726794
REID: 0052027
D.B.: 016161, PG. 01089
ACREAGE: 12.84
ZONING: R-1

SEE SHEET C2.14

SEE SHEET C2.17

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:32:51-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

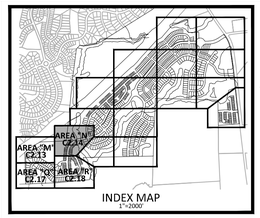
PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-S1
CHECKED BY	WTO
DRAWN BY	TKD
SCALE	1"=40'
DATE	12. 13. 2023

SHEET

SITE PLAN AREA "M"

C2.13

M:\Projects\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-Pkg-03-S1.dwg, 5/7/2024 12:01:53 PM, Tommy Daboll



INDEX MAP
1"=2000'

30" VALLEY GUTTER WILL BE USED IN FRONT OF ALL FRONT LOADED SINGLE FAMILY LOTS AND TOWNHOME LOTS.

SEE INSET "A" - SHEET C2.13

EXISTING LOUISBURG ROAD (HWY 401) (VARIABLE WIDTH PUBLIC R/W)

EXISTING RIGHT-OF-WAY

DE STORM DRAINAGE EASEMENT

OWNER: NC DEPARTMENT OF TRANSPORTATION
PIN: 1758930801
REID: 0362134
D.B.: 013667, PG. 00509
ACREAGE: 3.96
ZONING: R&PUD
(ASHTON WOODS ACQUIRING PARCEL FROM NCDOT)

30' TOWN OF ROLESVILLE PUBLIC GREENWAY EASEMENT

N88° 08' 47"E 266.04'

10' ASPHALT GREENWAY

100' TYPE B LANDSCAPE BUFFER

10' ASPHALT GREENWAY

N09° 30' 43"E 535.11'

30' TOWN OF ROLESVILLE PUBLIC GREENWAY EASEMENT

10' ASPHALT GREENWAY

EXISTING 20' CITY OF RALEIGH SANITARY SEWER EASEMENT

PHASE 8

PHASE 5

ZONE 1

ZONE 2

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

TOP OF BANK (TYP.)

STORMWATER CONTROL MEASURE "I" (WET POND)
OS-18

STORMWATER CONTROL MEASURE ACCESS AND MAINTENANCE EASEMENT

RETAINING WALL ACCESS EASEMENT (TYP.)

RETAINING WALL (DESIGN BY OTHERS)

PROPOSED 40' CITY OF RALEIGH SANITARY SEWER EASEMENT

40' STORM DRAINAGE EASEMENT

OS-5

CONCRETE EXERCISE STATION

QUARRY ROAD (60' PUBLIC R/W)

RETAINING WALL (DESIGN BY OTHERS)

RETAINING WALL ACCESS EASEMENT (TYP.)

HIGH VISIBILITY CROSSWALK (TYP.)

668 2474 SF.
669 1910 SF.
670 1910 SF.
671 2474 SF.

672 2529 SF.
673 1922 SF.
674 1895 SF.
675 1895 SF.
676 1922 SF.
677 2529 SF.

678 2668 SF.
679 1997 SF.
680 1940 SF.
681 1911 SF.
682 1905 SF.
683 2424 SF.

684 2421 SF.
685 1902 SF.
686 1902 SF.
687 1902 SF.

624 2462 SF.
625 1993 SF.
626 2008 SF.
627 1993 SF.
628 2462 SF.

629 2506 SF.
630 2091 SF.
631 2161 SF.
632 2199 SF.
633 2208 SF.
634 2208 SF.
635 2811 SF.

636 3270 SF.
637 2239 SF.
638 2030 SF.
639 1884 SF.

OS-7

OS-8

OS-6

MAIL KIOSK AREA "4"

ACCESSIBLE PARKING SIGN

ACCESSIBLE RAMP (TYP.)

REVERIE WAY (50' PUBLIC R/W)

5' CONCRETE SIDEWALK

30" CURB AND GUTTER (SEE NOTE)

20' TYPE B LANDSCAPE BUFFER

SOLACE WAY (50' PUBLIC R/W)

CHARNT COURT (50' PUBLIC R/W)

598 6250 SF.
597 7847 SF.
596 8487 SF.
595 6933 SF.
594 6250 SF.
593 6250 SF.
580 10023 SF.
581 6340 SF.
579 7432 SF.
578 7556 SF.
577 7506 SF.
575 7506 SF.
574 7558 SF.

OS-22
OS-23

SEE SHEET C2.13

SEE SHEET C2.18

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawing\AWH20000-CD-PKG-03-S1.dwg, 5/1/2024 12:04:09 PM, Tommy Daboit

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TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:35:04-04'00'

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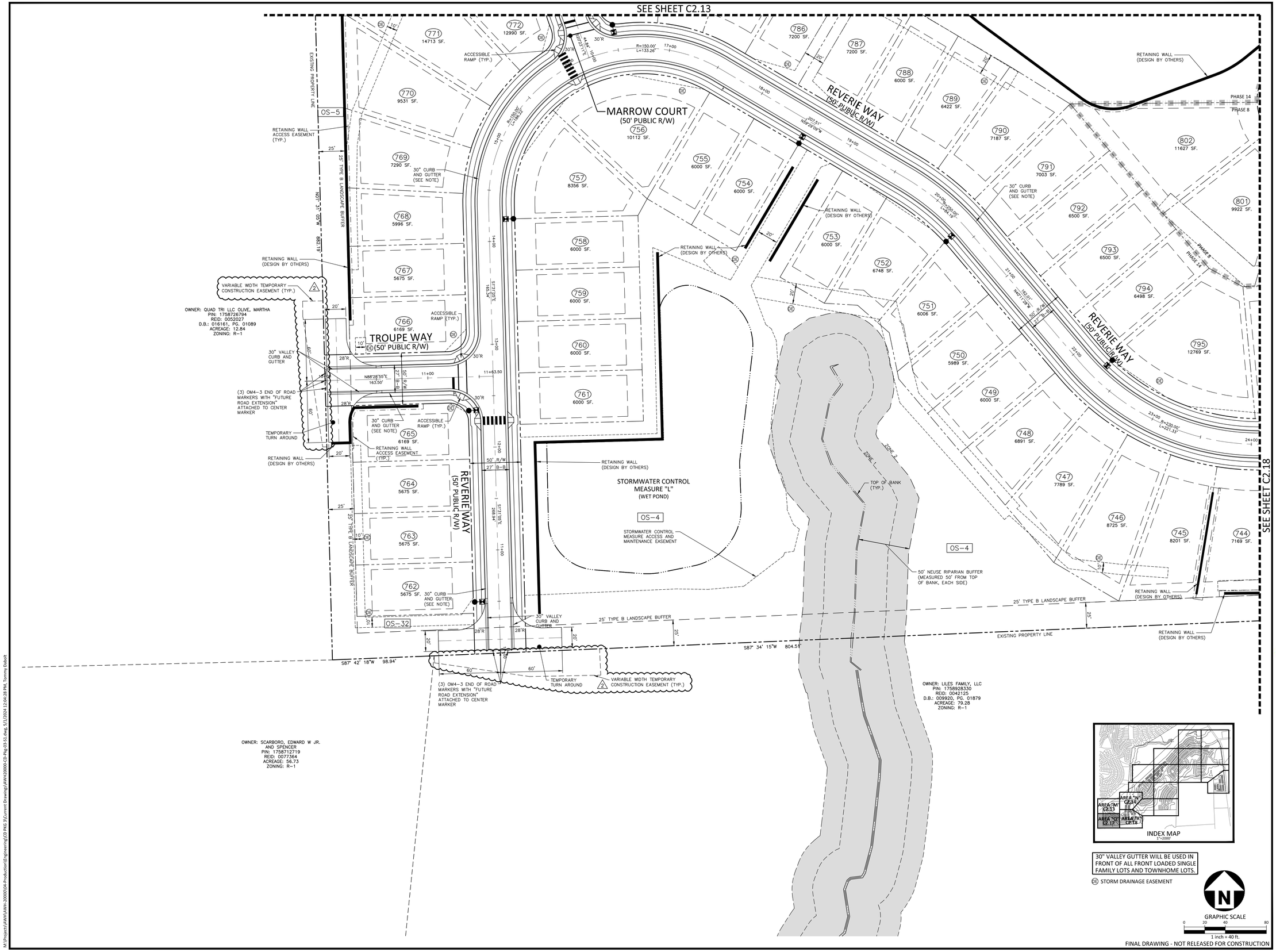
SHEET

SITE PLAN AREA "N"

C2.14



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DRAWN BY	TKD
SCALE	1"=40'
DATE	12. 13. 2023

SHEET

SITE PLAN
AREA "Q"
C2.17

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawing\AWH20000-CD-PKG-03-S1.dwg, 5/1/2024 12:04:28 PM, Tommy Daboit

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EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

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CHECKED BY	WTO
DRAWN BY	TKD
SCALE	1"=40'
DATE	12. 13. 2023

SHEET

SITE PLAN
AREA "R"
C2.18

DE STORM DRAINAGE EASEMENT

30" VALLEY GUTTER WILL BE USED IN FRONT OF ALL FRONT LOADED SINGLE FAMILY LOTS AND TOWNHOME LOTS.

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-PKG-03-S1.dwg, 5/1/2024 12:04:53 PM, Tommy Daboll

SITE PLAN NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF ROLESVILLE AND/OR NCDOT STANDARDS AND SPECIFICATIONS AS APPLICABLE.
2. ALL DIMENSIONS SHOWN ON SITE PLAN ARE MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE ENGINEER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE OWNER.
4. EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER, BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
5. THE CONTRACTOR SHALL NOTE THAT THE DRAWINGS MAY NOT SHOW EVERY OFFSET, TRANSITION, FITTING, ETC. THAT MAY BE REQUIRED. THE CONTRACTOR SHALL INSTALL SUCH STANDARD APPURTENANCES AS REQUIRED TO CLOSELY FOLLOW THE GRADES AND ALIGNMENTS DEPICTED ON THE PLANS.
6. CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
7. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES FOR ANY REQUIRED RELOCATIONS (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
8. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION, FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
9. ACCESSIBLE RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NCDOT DETAILS.
10. ALL SIDEWALKS THAT CONNECT TO THE PUBLIC RIGHT-OF-WAY MUST BE ACCESSIBLE TO PERSONS WHO ARE BLIND, HAVE LOW VISION AND PEOPLE WITH MOBILITY DISABILITIES. PEDESTRIAN EXISTING ROUTES AND ALTERNATE PEDESTRIAN ROUTES DURING CONSTRUCTION WILL BE REQUIRED TO BE COMPLIANT WITH THE PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG), 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
11. TYPICAL PAVEMENT SECTION DETAILS ARE SHOWN WITHIN THIS SET AND INTENDED TO BE A MINIMUM PAVEMENT SECTION REQUIREMENT. THE CURRENT GEOTECHNICAL REPORT SHALL OVER-RIDE ALL TYPICAL PAVEMENT SECTIONS SHOWN, IF THE GEOTECHNICAL ENGINEER DEEMS A HEAVIER SECTION IS REQUIRED.
12. EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED PROVIDED APPROVAL HAS BEEN OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONTRACTOR SHALL WAIVE ANY CLAIM FOR ADDITIONAL COST RELATED TO SUBSTITUTION OF ALTERNATE EQUIPMENT.
13. ALL SIGNAGE ASSOCIATED WITH THE PUBLIC STREET SYSTEM SHALL ADHERE TO MUTCD STANDARDS AND SPECIFICATIONS.

NOTES:

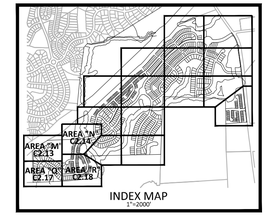
1. ROADS LABELED AS PUBLIC WILL BE DEDICATED AS PUBLIC ROW TO BE MAINTANED BY THE TOWN OF ROLESVILLE.
2. ROADS LABELED AS PRIVATE WILL BE DEDICATED AS PRIVATE AND BE MAINTAINED BY THE HOA.
3. GREENWAY EASEMENTS LABELED AS PUBLIC WILL BE DEDICATED AS PUBLIC AND BE MAINTAINED BY THE TOWN OF ROLESVILLE.
4. SANITARY SEWER EASEMENTS WILL BE DEDICATED AS PUBLIC EASEMENTS TO THE CITY OF RALEIGH.

SITE LEGEND

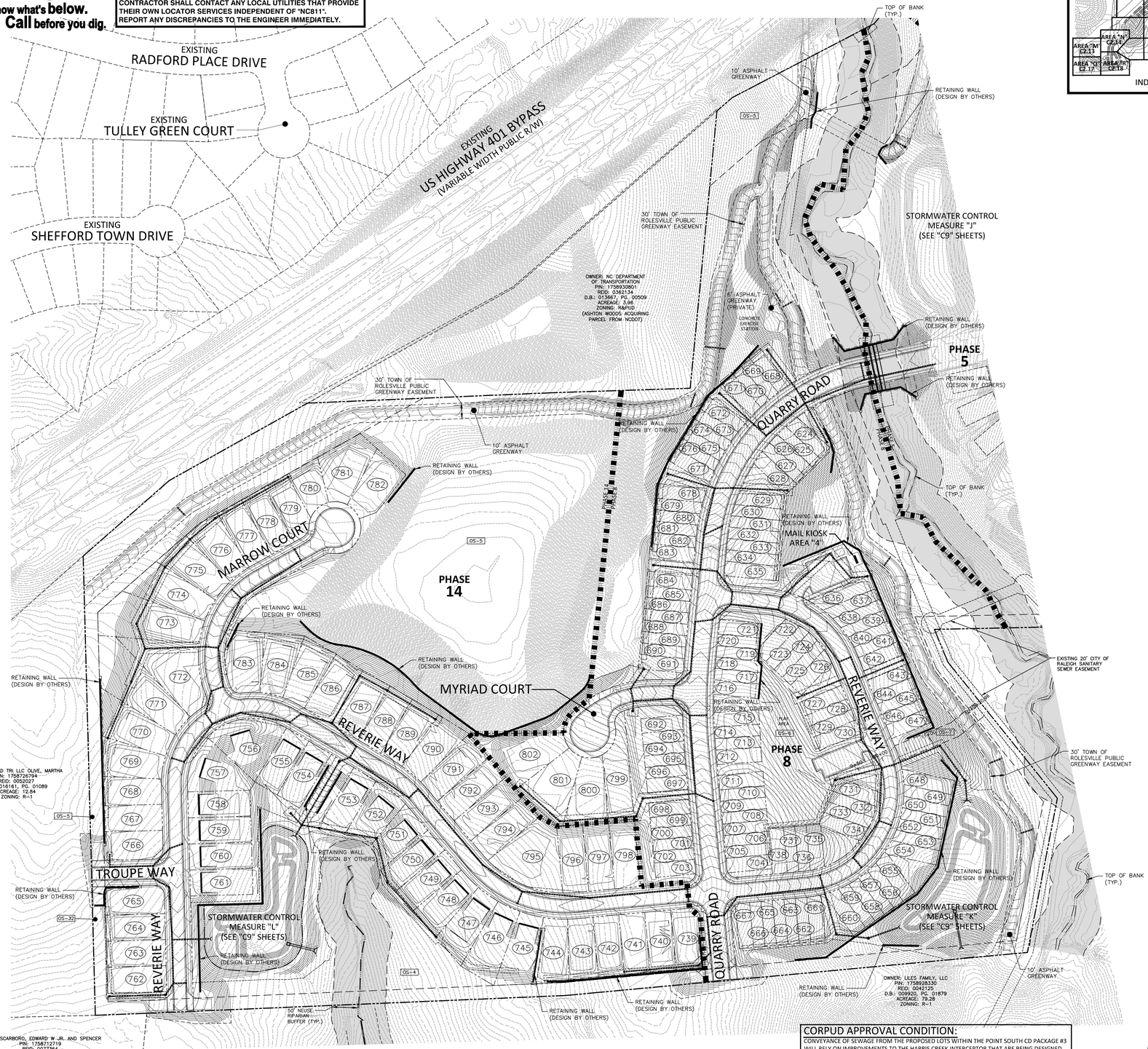
- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACC — ACCESSIBLE PARKING STALL
- VAN — VAN ACCESSIBLE PARKING STALL
- ACCESSIBLE RAMPS (TYPE A, TYPE B, TYPE C)
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE

Know what's below. Call before you dig.

CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



INDEX MAP
1"=2000'



CORPUD APPROVAL CONDITION:

CONVEYANCE OF SEWAGE FROM THE PROPOSED LOTS WITHIN THE POINT SOUTH CD PACKAGE #3 WILL RELY ON IMPROVEMENTS TO THE HARRIS CREEK INTERCEPTOR THAT ARE BEING DESIGNED BY McADAMS AND AMERICAN ENGINEERING. THE PLAN SET BY McADAMS IS TITLED HARRIS CREEK INTERCEPTOR IMPROVEMENTS AND WILL BE ASSIGNED PERMIT # S-4979. THE PLAN SET BY AMERICAN ENGINEERING IS TITLED HARRIS CREEK SANITARY SEWER REPLACEMENT AND WILL BE ASSIGNED PERMIT # S-5037. THE POINT SOUTH CD PACKAGE #3 LOTS WILL NOT BE RECORDED AND THE ONSITE WATER/SEWER UTILITIES WILL NOT BE ACCEPTED BY RALEIGH UNTIL THE HARRIS CREEK INTERCEPTOR IMPROVEMENTS UNDER PERMITS # S-4979 AND # S-5037 ARE APPROVED, INSTALLED, AND ACCEPTED BY RALEIGH FOR MAINTENANCE.

GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:36:36-04'00'

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PLAN INFORMATION

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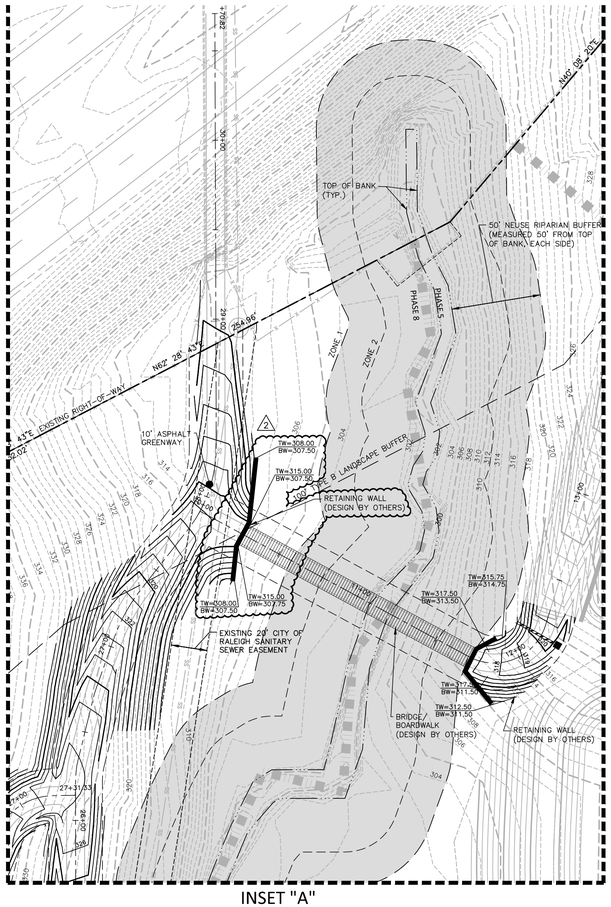
FILENAME	AWH20000-CD-PKG-03-OAS2
CHECKED BY	WTO
DRAWN BY	TKD
SCALE	1"=100'
DATE	12. 13. 2023

SHEET

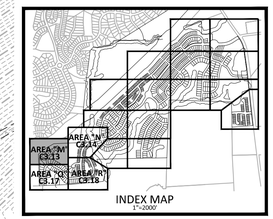
CD PACKAGE 3 OVERALL GRADING PLAN

C3.00

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawing\AWH20000-CD-PKG-03-OAS2.dwg, 5/1/2024 11:58:48 AM, Tommy Daboll



INSET "A"



30" VALLEY GUTTER WILL BE USED IN FRONT OF ALL FRONT LOADED SINGLE FAMILY LOTS AND TOWNHOME LOTS.

SD STORM DRAINAGE EASEMENT

EXISTING LOUISBURG ROAD (HWY 401) (VARIABLE WIDTH PUBLIC R/W)

OWNER: NC DEPARTMENT OF TRANSPORTATION
PIN: 1758930801
REID: 0362134
D.B.: 013667, PG. 00509
ACREAGE: 3.96
ZONING: R&PUD
(ASHTON WOODS ACQUIRING PARCEL FROM NCDOT)

30' TOWN OF ROLESVILLE PUBLIC GREENWAY EASEMENT

N87° 33' 48"E 469.05'

10' ASPHALT GREENWAY

N60° 44' 26"E 304.37'

EXISTING RIGHT-OF-WAY

OS-5

100' TYPE B LANDSCAPE BUFFER

DI-2043

15" RCP CULVERT

160.74 LF 12" HDPE @ 2.70%

RETAINING WALL (DESIGN BY OTHERS)

TW=397.50 BW=397.00

TW=393.00 BW=389.00

TW=389.50 BW=388.50

N48° 45' 51"E 219.72'

63.26 LF 15" HDPE @ 2.58%

DI-2041

CB-2034

MARROW COURT (50' PUBLIC R/W)

71.37 LF 15" HDPE @ 2.58%

DI-2040

24.50 LF 15" RCP @ 0.60%

CB-2033

CB-2032

135.85 LF 15" RCP @ 4.52%

121.54 LF 18" HDPE @ 5.10%

24.50 LF 18" RCP @ 0.60%

CB-2031

DI-2039

104.88 LF 18" RCP @ 5.57%

TW=375.00 BW=373.50

TW=370.50 BW=370.00

50.79 LF 18" HDPE @ 1.78%

CB-2035

TW=374.00 BW=366.00

RETAINING WALL (DESIGN BY OTHERS)

TW=370.00 BW=365.00

TW=370.00 BW=368.00

CB-2030

68.29 LF 15" HDPE @ 1.24%

DI-2036

24.50 LF 24" RCP @ 0.60%

116.37 LF 24" RCP @ 1.03%

74.84 LF 30" RCP @ 0.60%

TW=376.00 BW=372.00

CB-2029

57.88 LF 30" RCP @ 0.95%

86.60 LF 30" RCP @ 1.14%

DI-2018

REVERIE WAY (50' PUBLIC R/W)

24.50 LF 30" RCP @ 0.60%

CB-2028

26.46 LF 30" RCP @ 0.60%

CB-2021

60.08 LF 18" HDPE @ 1.60%

DI-2019

TW=373.00 BW=368.00

44.38 LF 30" RCP @ 0.60%

CB-2027

62.10 LF 30" RCP @ 2.69%

105.02 LF 24" HDPE @ 1.36%

67.77 LF 15" HDPE @ 1.11%

DI-2017

DI-2020

24.48 LF 30" RCP @ 0.60%

65.00 LF 36" RCP @ 1.06%

TW=380.00 BW=369.00

CB-2023

CB-2022

CB-2024

117.57 LF 12" HDPE @ 1.03%

OWNER: QUAD TRI LLC OLIVE, MARTHA
PIN: 1758726794
REID: 0052027
D.B.: 016161, PG. 01089
ACREAGE: 12.84
ZONING: R-10

100' TYPE B LANDSCAPE BUFFER

RETAINING WALL (DESIGN BY OTHERS)

TW=384.00 BW=383.50

25'

30' TOWN OF ROLESVILLE PUBLIC GREENWAY EASEMENT

DI-2017
T/G=359.80
INV IN=353.00 (CB-2021)
INV IN=350.81 (DI-2018)
INV OUT=350.11

DI-2018
T/G=358.20
INV IN=352.44 (DI-2019)
INV OUT=352.24

DI-2019
T/G=357.00
INV IN=353.50 (DI-2020)
INV OUT=353.40

DI-2020
T/G=358.00
INV OUT=354.70

CB-2021
T/C=360.74
INV IN=355.24 (CB-2022)
INV OUT=354.67

CB-2022
T/C=361.01
INV IN=355.50 (CB-2023)
INV OUT=355.40

CB-2023
T/C=364.57
INV IN=356.70 (CB-2024)
INV OUT=356.60

CB-2024
T/C=366.73
INV IN=357.35 (CB-2027)
INV IN=362.48 (CB-2025)
INV OUT=357.25

CB-2027
T/C=366.73
INV IN=357.59 (CB-2028)
INV OUT=357.49

CB-2028
T/C=366.06
INV IN=357.96 (CB-2029)
INV OUT=357.86

CB-2029
T/C=366.06
INV IN=358.21 (CB-2030)
INV OUT=358.11

CB-2030
T/C=369.24
INV IN=361.65 (CB-2031)
INV IN=359.15 (CB-2035)
INV OUT=358.65

CB-2031
T/C=374.62
INV IN=370.37 (CB-2033)
INV IN=367.59 (CB-2032)
INV OUT=367.49

CB-2032
T/C=374.62
INV OUT=367.74

CB-2033
T/C=381.01
INV IN=376.61 (CB-2034)
INV OUT=376.51

CB-2034
T/C=381.01
INV OUT=376.76

CB-2035
T/C=369.24
INV IN=359.30 (DI-2036)
INV OUT=359.30

DI-2036
T/G=363.62
INV IN=361.10 (DI-2039)
INV IN=361.35 (DI-2037)
INV OUT=360.50

DI-2037
T/G=365.00
INV IN=362.30 (DI-2038)
INV OUT=362.20

DI-2039
T/G=366.09
INV IN=362.13 (DI-2040)
INV OUT=362.00

DI-2040
T/G=371.86
INV IN=368.58 (DI-2041)
INV OUT=368.33

DI-2041
T/G=373.77
INV IN=370.62 (DI-2042)
INV OUT=370.42

DI-2042
T/G=375.50
INV IN=372.50 (DI-2043)
INV OUT=372.25

DI-2043
T/G=379.84
INV OUT=376.84

SEE SHEET C3.17

SEE SHEET C3.14

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-Pkg-03-G1.dwg, 5/17/2024 11:49:34 AM, Tommy Dabolt

McAdams
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
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ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:36:38-04'00'

REVISIONS

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1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

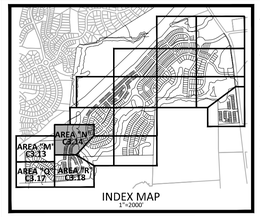
PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-G1
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 13. 2023

SHEET

GRADING AND STORM DRAINAGE PLAN AREA "M"

C3.13



INDEX MAP
1"=2000'

30" VALLEY GUTTER WILL BE USED IN FRONT OF ALL FRONT LOADED SINGLE FAMILY LOTS AND TOWNHOME LOTS.

TOWNHOME NOTE:
TOWNHOME BUILDINGS ARE CONCEPTUAL AND WILL BE APPROVED SEPARATE FROM THESE PLANS.

SD STORM DRAINAGE EASEMENT

SEE INSET "A" - SHEET C3.13

EXISTING LOUISBURG ROAD (HWY 401) (VARIABLE WIDTH PUBLIC R/W)

Existing Right-of-Way

100' TYPE B LANDSCAPE BUFFER

10' ASPHALT GREENWAY

EXISTING 20' CITY OF RALEIGH SANITARY SEWER EASEMENT

8" SSMH

5" SSMH

ZONE 2

30' TOWN OF ROLESVILLE PUBLIC GREENWAY EASEMENT

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

TOP OF BANK (TYP.)

STORMWATER CONTROL MEASURE "I" (WET POND)
OS-18

STORMWATER CONTROL MEASURE ACCESS AND MAINTENANCE EASEMENT

SOLACE WAY (50' PUBLIC R/W)

OS-22

OS-23

OS-5

OS-7

OS-8

CONCRETE EXERCISE STATION

15" RCP CULVERT

92.69 LF 84" RCP @ 1.08%

72" INV. (N=299.00

PROPOSED 40' CITY OF RALEIGH SANITARY SEWER EASEMENT

84" INV. (N=296.00

93.04 LF 72" RCP @ 1.07%

TW=313.50 BW=301.50

TW=305.00 BW=304.00

RETAINING WALL (DESIGN BY OTHERS)

EW-1100

73.82 LF 24" RCP @ 3.93%

CB-1101

32.50 LF 24" RCP @ 0.77%

40' STORM DRAINAGE EASEMENT

TW=302.00 BW=301.00

TW=313.00 BW=300.00

TW=330.00 BW=329.00

TW=343.50 BW=326.00

QUARRY ROAD (60' PUBLIC R/W)

CB-1107

32.50 LF 15" RCP @ 1.22%

CB-1106

CB-1102

55.29 LF 24" RCP @ 0.65%

CB-1103

139.35 LF 24" RCP @ 0.60%

92.93 LF 15" RCP @ 1.18%

CB-1110

32.50 LF 15" RCP @ 1.12%

72" INV. (N=298.00

84" INV. (N=295.00

90.35 LF 72" RCP @ 1.07%

TW=305.00 BW=304.50

RETAINING WALL (DESIGN BY OTHERS)

TW=315.50 BW=300.50

CHARM COURT (50' PUBLIC R/W)

89.45 LF 15" RCP @ 0.56%

CB-1108

132.50 LF 18" RCP @ 0.60%

TW=319.00 BW=314.00

TW=304.00 BW=303.00

CB-1113

97.01 LF 15" RCP @ 5.00%

32.50 LF 15" RCP @ 0.60%

40' STORM DRAINAGE EASEMENT

VELOCITY DISSIPATOR 28'Lx25.87'Wx24"TH CLASS "1" RIP RAP

10' ASPHALT GREENWAY

30' TOWN OF ROLESVILLE PUBLIC GREENWAY EASEMENT

85.15 LF 15" RCP @ 0.55%

CB-1112

CB-1109

TW=317.00 BW=314.00

PROPOSED 40' CITY OF RALEIGH SANITARY SEWER EASEMENT

PHASE 5

PHASE 8

ZONE 1

ZONE 2

94.80 LF 15" RCP @ 2.46%

35.20 LF 15" RCP @ 0.60%

CB-1834

DI-1835

TW=318.00 BW=317.00

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

TW=356.00 BW=335.00

RETAINING WALL (DESIGN BY OTHERS)

PHASE 4A

PHASE 8

CB-1832

91.90 LF 18" RCP @ 0.60%

QUARRY ROAD (60' PUBLIC R/W)

104.02 LF 15" RCP @ 0.51%

TOP OF BANK (TYP.)

TW=333.00 BW=304.00

MAIL KIOSK - AREA "4"

TW=338.00 BW=302.00

RETAINING WALL (DESIGN BY OTHERS)

61.85 LF 15" RCP @ 0.60%

12" RCP CULVERT

10' ASPHALT GREENWAY

CB-1831

39.91 LF 15" RCP @ 0.59%

CB-1824

EXISTING 20' CITY OF RALEIGH SANITARY SEWER EASEMENT

STORMWATER CONTROL MEASURE "K" (WET POND)
OS-8

TW=341.00 BW=340.00

66.41 LF 24" RCP @ 0.60%

32.51 LF 24" RCP @ 1.52%

CB-1822

CB-1823

TW=335.00 BW=335.00

TW=333.00 BW=308.50

CB-1828

48.76 LF 24" RCP @ 0.60%

DI-1829

90.58 LF 18" RCP @ 1.22%

REVERIE WAY (50' PUBLIC R/W)

CB-1826

24.50 LF 24" RCP @ 0.60%

CB-1821

128.80 LF 15" RCP @ 0.60%

24.49 LF 15" RCP @ 0.60%

81.36 LF 15" RCP @ 0.60%

EXISTING 20' CITY OF RALEIGH SANITARY SEWER EASEMENT

76.21 LF 36" RCP @ 0.60%

33.27 LF 36" RCP @ 1.69%

CB-1837

46.32 LF 36" RCP @ 6.31%

CB-1836

30.84 LF 36" RCP @ 0.60%

CB-1820

20' TYPE B LANDSCAPE BUFFER

CB-1832 T/C=331.98 INV IN=325.91 (DI-1833) INV IN=325.91 (CB-1834) INV OUT=325.56

DI-1833 T/G=332.70 INV OUT=328.24

CB-1834 T/C=331.33 INV IN=326.22 (DI-1835) INV OUT=326.12

DI-1835 T/G=331.00 INV OUT=326.75

CB-1836 T/C=342.67 INV IN=336.70 (CB-1837) INV OUT=335.96

CB-1837 T/C=342.86 INV IN=337.36 (CB-1838) INV OUT=337.26

CB-1820 T/C=337.50 INV IN=321.63 (CB-1825) INV IN=326.18 (CB-1821) INV OUT=321.53

CB-1821 T/C=337.50 INV IN=326.42 (CB-1822) INV OUT=326.32

CB-1823 T/C=333.77 INV IN=327.75 (DI-1824) INV OUT=327.65

DI-1824 T/C=333.00 INV OUT=327.94

CB-1825 T/C=340.36 INV IN=333.96 (CB-1836) INV IN=323.18 (CB-1826) INV OUT=322.18

CB-1827 T/C=339.34 INV IN=323.82 (CB-1828) INV OUT=323.72

CB-1828 T/C=339.31 INV IN=334.25 (DI-1829) INV IN=324.51 (CB-1830) INV OUT=324.31

DI-1829 T/G=342.00 INV OUT=335.35

CB-1830 T/C=336.19 INV IN=326.41 (CB-1831) INV IN=325.01 (CB-1832) INV OUT=324.91

CB-1831 T/C=335.16 INV OUT=326.64

CB-1107 T/C=320.31 INV OUT=316.06

CB-1108 T/C=321.90 INV IN=315.85 (DI-1109) INV IN=317.19 (CB-1110) INV IN=315.79 (CB-1112) INV OUT=315.49

DI-1109 T/G=320.00 INV OUT=316.32

CB-1110 T/C=321.90 INV IN=317.65 (DI-1111) INV OUT=317.55

DI-1111 T/G=323.00 INV OUT=318.75

CB-1112 T/C=325.40 INV IN=320.76 (CB-1113) INV OUT=320.66

CB-1113 T/C=325.40 INV IN=321.06 (DI-1114) INV OUT=320.96

DI-1114 T/G=325.80 INV OUT=321.55

CB-1822 T/C=333.81 INV IN=327.28 (CB-1823) INV OUT=327.18

FLARED END SECTION INV=310.00

CB-1101 T/C=323.93 INV IN=313.00 (CB-1102) INV OUT=312.90

CB-1102 T/C=323.93 INV IN=313.35 (CB-1103) INV OUT=313.25

CB-1103 T/C=322.17 INV IN=317.60 (CB-1104) INV IN=314.22 (DI-1105) INV IN=313.82 (CB-1106) INV OUT=313.72

CB-1104 T/C=322.17 INV OUT=317.90

DI-1105 T/G=317.05 INV OUT=314.40

CB-1106 T/C=320.31 INV IN=315.66 (CB-1107) INV IN=314.75 (CB-1108) INV OUT=314.65

OWNER: NC DEPARTMENT OF TRANSPORTATION
PIN: 1758930801
REID: 0362134
D.B.: 013667, PG: 00509
ACREAGE: 3.96
ZONING: R&PUD
(ASHTON WOODS ACQUIRING PARCEL FROM NCDOT)

30' TOWN OF ROLESVILLE PUBLIC GREENWAY EASEMENT

N88° 08' 47"E 266.04'

10' ASPHALT GREENWAY

SEE SHEET C3.13

SEE SHEET C3.18

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:36:39-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
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PROJECT NO.	AWH-20000
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CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 13. 2023

SHEET

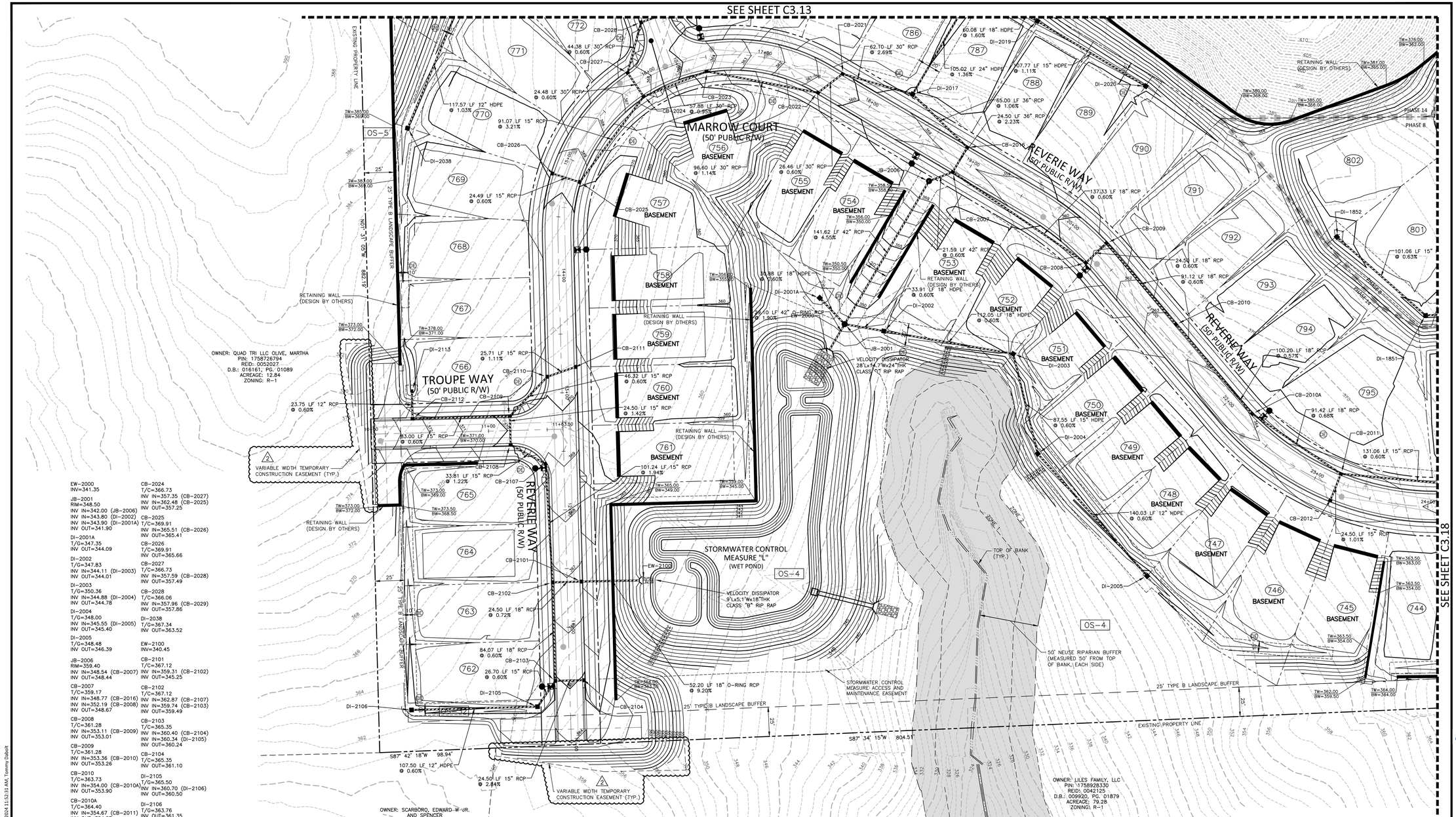
GRADING AND STORM DRAINAGE PLAN AREA "N"

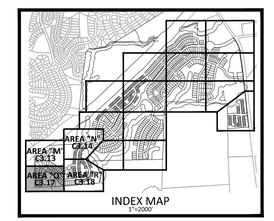
C3.14

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-PKG-03-G1.dwg, 5/1/2024 11:55:44 AM, Tommy Daboll

SEE SHEET C3.13

SEE SHEET C3.18





30" VALLEY GUTTER WILL BE USED IN FRONT OF ALL FRONT LOADED SINGLE FAMILY LOTS AND TOWNHOME LOTS.

SD STORM DRAINAGE EASEMENT

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
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TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

W.T. O'Daniel

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:36:41-04'00'

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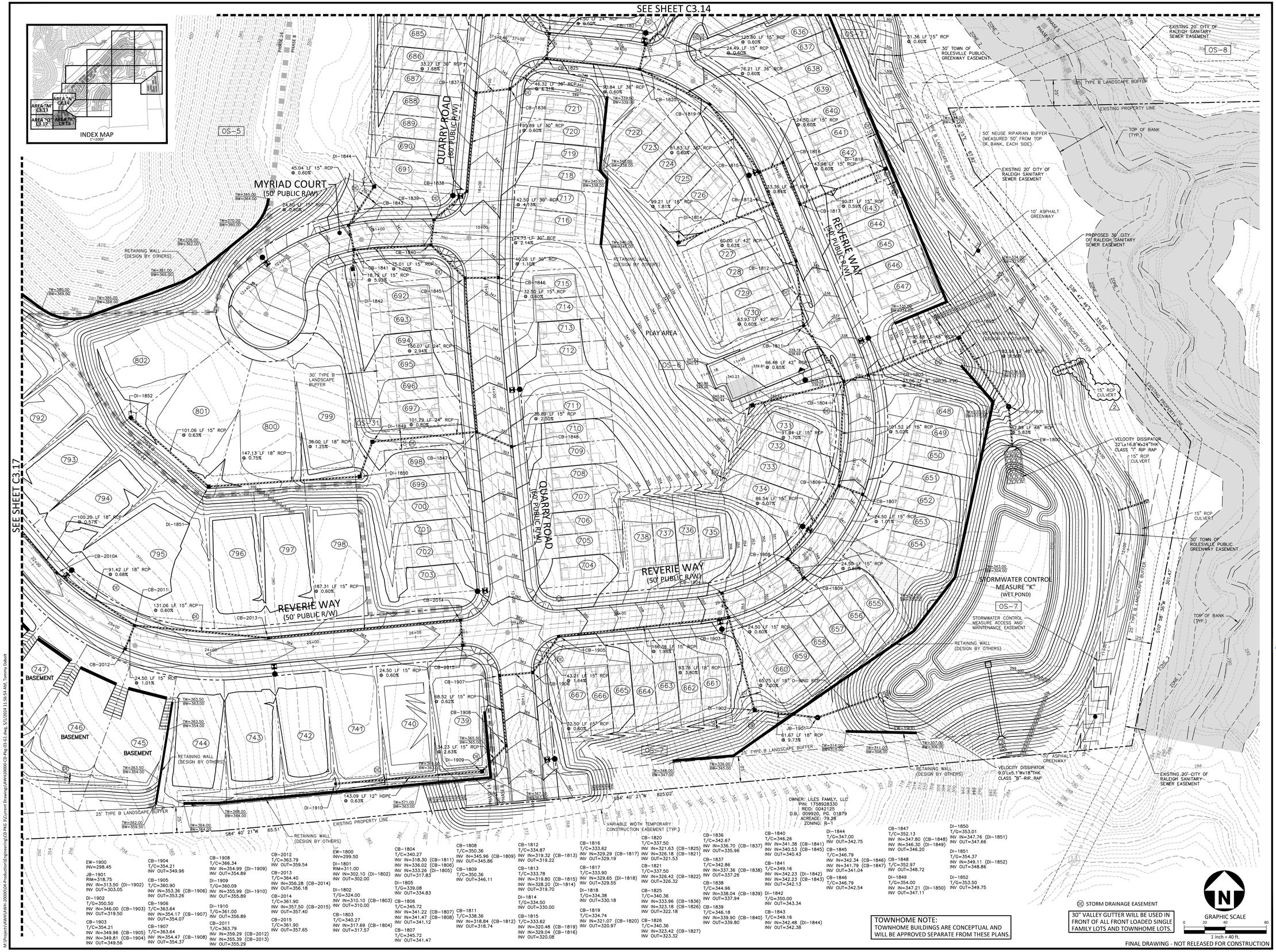
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 13. 2023

SHEET

GRADING AND STORM DRAINAGE PLAN AREA "Q"

C3.17



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CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T. O'Daniel
Date: 2024.01.01 14:36:42-04'00'

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DRAWN BY	.
SCALE	1"=40'
DATE	12. 13. 2023

SHEET

GRADING AND STORM DRAINAGE PLAN AREA "R"

C3.18

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-PKG-03-G1.dwg, 5/1/2024 11:56:54 AM, Tommy Daboll

CITY OF RALEIGH PUBLIC UTILITIES
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 STORM DRAIN 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. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.

7. 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.

8. INSTALL 3/4" 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.

9. INSTALL 4" PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.

10. 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.

11. 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.

12. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.

13. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE RW FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A UC / BLDG PERMIT. CONTACT (919) 996-4516 OR FOG@RALEIGHNC.GOV FOR MORE INFORMATION.

14. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. 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. A CERTIFICATE OF COMPLIANCE SHALL ALSO BE OBTAINED FROM THE RW CROSS-CONNECTION COORDINATOR FOR EACH DEVICE PRIOR TO ISSUANCE OF A UC / BLDG PERMIT. CONTACT (919) 996-5923 OR CROSS.CONNECTION@RALEIGHNC.GOV FOR MORE INFORMATION.

15. NOTICE FOR PROJECTS WITH REPLACED OR OVERSIZED MAINS: IF THE CITY'S REIMBURSEMENT FOR AN OVERSIZED MAIN OR URBAN MAIN REPLACEMENT PROJECT IS $250,000 OR GREATER - THE PROJECT MUST BE PUBLICLY BID

NOTES:

1. ROADS LABELED AS PUBLIC WILL BE DEDICATED AS PUBLIC ROW TO BE MAINTANED BY THE TOWN OF ROLESVILLE.

2. ROADS LABELED AS PRIVATE WILL BE DEDICATED AS PRIVATE AND BE MAINTAINED BY THE HOA.

3. GREENWAY EASEMENTS LABELED AS PUBLIC WILL BE DEDICATED AS PUBLIC AND BE MAINTAINED BY THE TOWN OF ROLESVILLE.

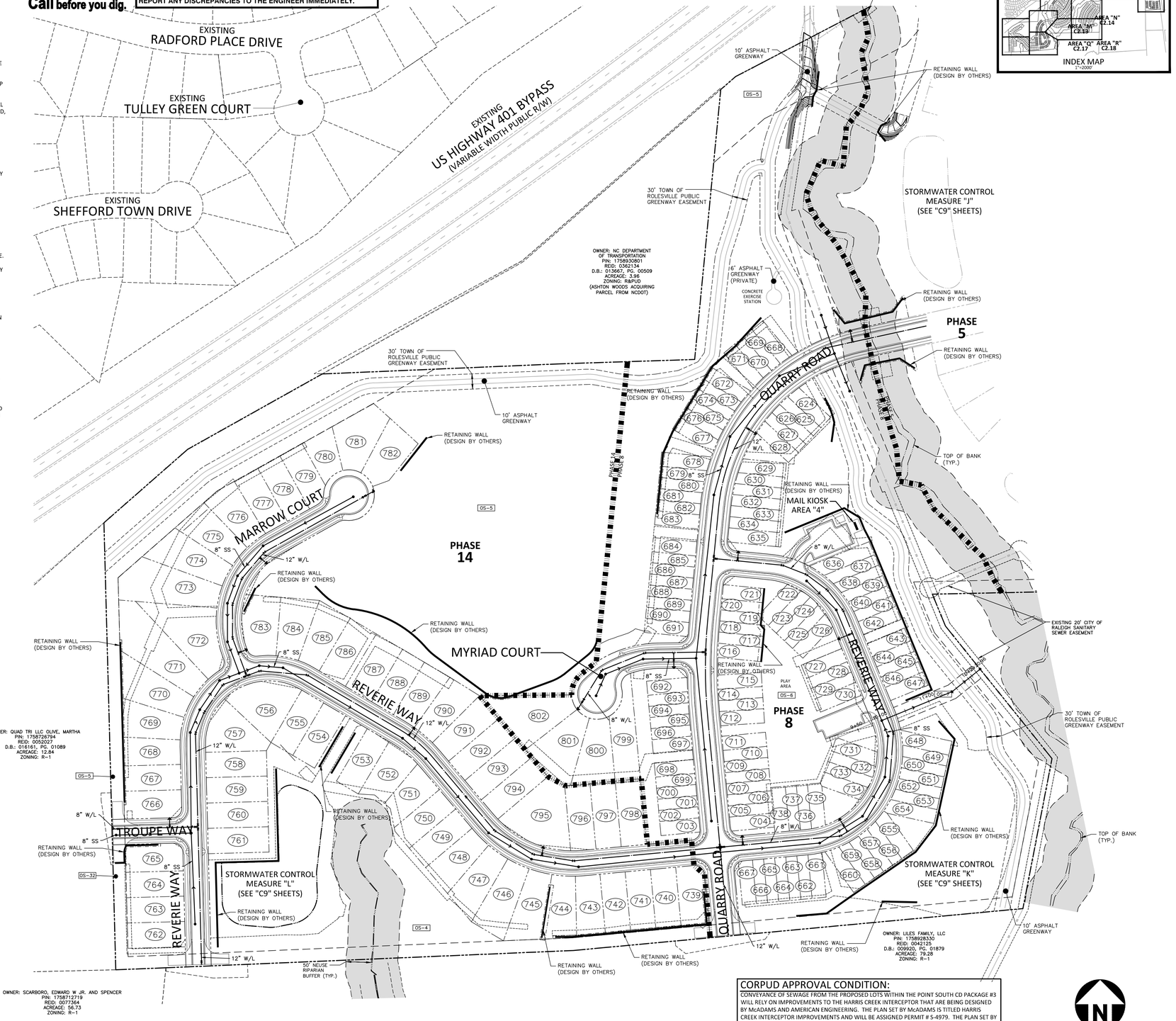
4. SANITARY SEWER EASEMENTS WILL BE DEDICATED AS PUBLIC EASEMENTS TO THE CITY OF RALEIGH.

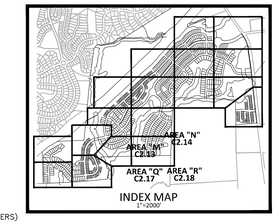
SITE LEGEND

- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACC — ACCESSIBLE PARKING STALL
- VAN — VAN ACCESSIBLE PARKING STALL
- ACCESSIBLE RAMPS (TYPE A, TYPE B, TYPE C)
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE

Know what's below. Call before you dig.

CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.





CORPUD APPROVAL CONDITION:

CONVEYANCE OF SEWAGE FROM THE PROPOSED LOTS WITHIN THE POINT SOUTH CD PACKAGE #3 WILL RELY ON IMPROVEMENTS TO THE HARRIS CREEK INTERCEPTOR THAT ARE BEING DESIGNED BY McADAMS AND AMERICAN ENGINEERING. THE PLAN SET BY McADAMS IS TITLED HARRIS CREEK INTERCEPTOR IMPROVEMENTS AND WILL BE ASSIGNED PERMIT # S-4979. THE PLAN SET BY AMERICAN ENGINEERING IS TITLED HARRIS CREEK SANITARY SEWER REPLACEMENT AND WILL BE ASSIGNED PERMIT # S-5037. THE POINT SOUTH CD PACKAGE #3 LOTS WILL NOT BE RECORDED AND THE ONSITE WATER/SEWER UTILITIES WILL NOT BE ACCEPTED BY RALEIGH UNTIL THE HARRIS CREEK INTERCEPTOR IMPROVEMENTS UNDER PERMITS # S-4979 AND # S-5037 ARE APPROVED, INSTALLED, AND ACCEPTED BY RALEIGH FOR MAINTENANCE.

GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T. O'Daniel
Date: 2024.05.01 14:36:44-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

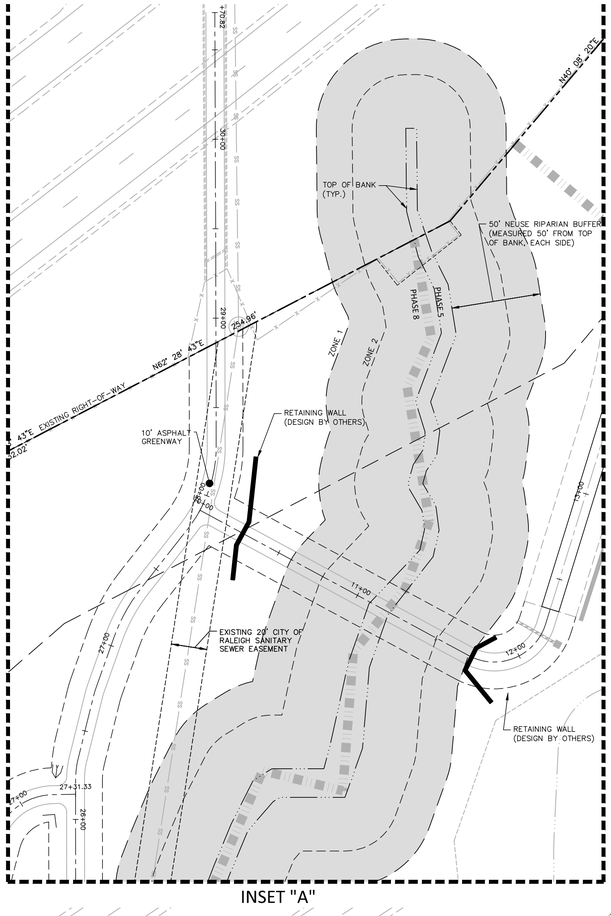
PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-OAS2
CHECKED BY	WTO
DRAWN BY	TKD
SCALE	1"=100'
DATE	12. 13. 2023

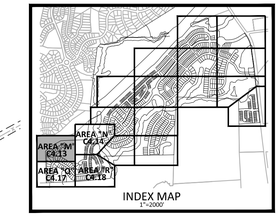
SHEET

CD PACKAGE 3 OVERALL UTILITY PLAN

C4.00

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-Pkg-03-OAU2.dwg, 5/1/2024 12:55:35 PM, Tommy Dabolt





30" VALLEY GUTTER WILL BE USED IN FRONT OF ALL FRONT LOADED SINGLE FAMILY LOTS AND TOWNHOME LOTS.

DE STORM DRAINAGE EASEMENT

OWNER: NC DEPARTMENT OF TRANSPORTATION
PIN: 1758930801
REID: 0362134
D.B.: 013667, PG. 00509
ACREAGE: 3.96
ZONING: R&PUD
(ASHTON WOODS ACQUIRING PARCEL FROM NCDOT)

EXISTING LOUISBURG ROAD (HWY 401) (VARIABLE WIDTH PUBLIC R/W)

N87° 33' 48"E 469.05'

30' TOWN OF ROLESVILLE PUBLIC GREENWAY EASEMENT

10' ASPHALT GREENWAY

17+00 18+00 19+00 20+00

N60° 44' 26"E 304.37'

EXISTING RIGHT-OF-WAY

OS-5

15+00 14+00

100' TYPE B LANDSCAPE BUFFER

781 780 782 779 778 777 776 775 774 773 772 771 770 783 784 785 786 787 788 789

FIRE HYDRANT ASSEMBLY (TYP.)
6" GATE VALVE
12" X 6" REDUCER
SSMH-722

MARROW COURT (50' PUBLIC R/W)

SSMH-721
8" SS
12" DIP W/L

4" SANITARY SEWER SERVICE WITH CLEANOUTS

SSMH-720

FIRE HYDRANT ASSEMBLY (TYP.)

3/4" TYPE "K" COPPER DOMESTIC WATER SERVICE WITH 5/8" WATER METER (TYP.)

SSMH-719

RETAINING WALL (DESIGN BY OTHERS)

RETAINING WALL ACCESS EASEMENT (TYP.)

RETAINING WALL (DESIGN BY OTHERS)

SSMH-718

FIRE HYDRANT ASSEMBLY (TYP.)

SSMH-716

SSMH-715

REVERIE WAY (50' PUBLIC R/W)

SSMH-723

8" SS

12" DIP W/L

12"x12" TEE (3) 12" GV&B

SSMH-717

OWNER: QUAD TRI LLC OLIVE, MARTHA
PIN: 1758726794
REID: 0052027
D.B.: 016161, PG. 01089
ACREAGE: 12.84
ZONING: R-1

25' 20' TYPE B LANDSCAPE BUFFER 16'

RETAINING WALL (DESIGN BY OTHERS)

OS-5

SEE SHEET C4.17

SEE SHEET C4.14

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-Pkg-03-U1.dwg, 5/1/2024 12:27:36 PM, Tommy Diskett

McAdams
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2905 Meridian Parkway
Durham, NC 27713

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fax 919. 361. 2269
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CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:36:46-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

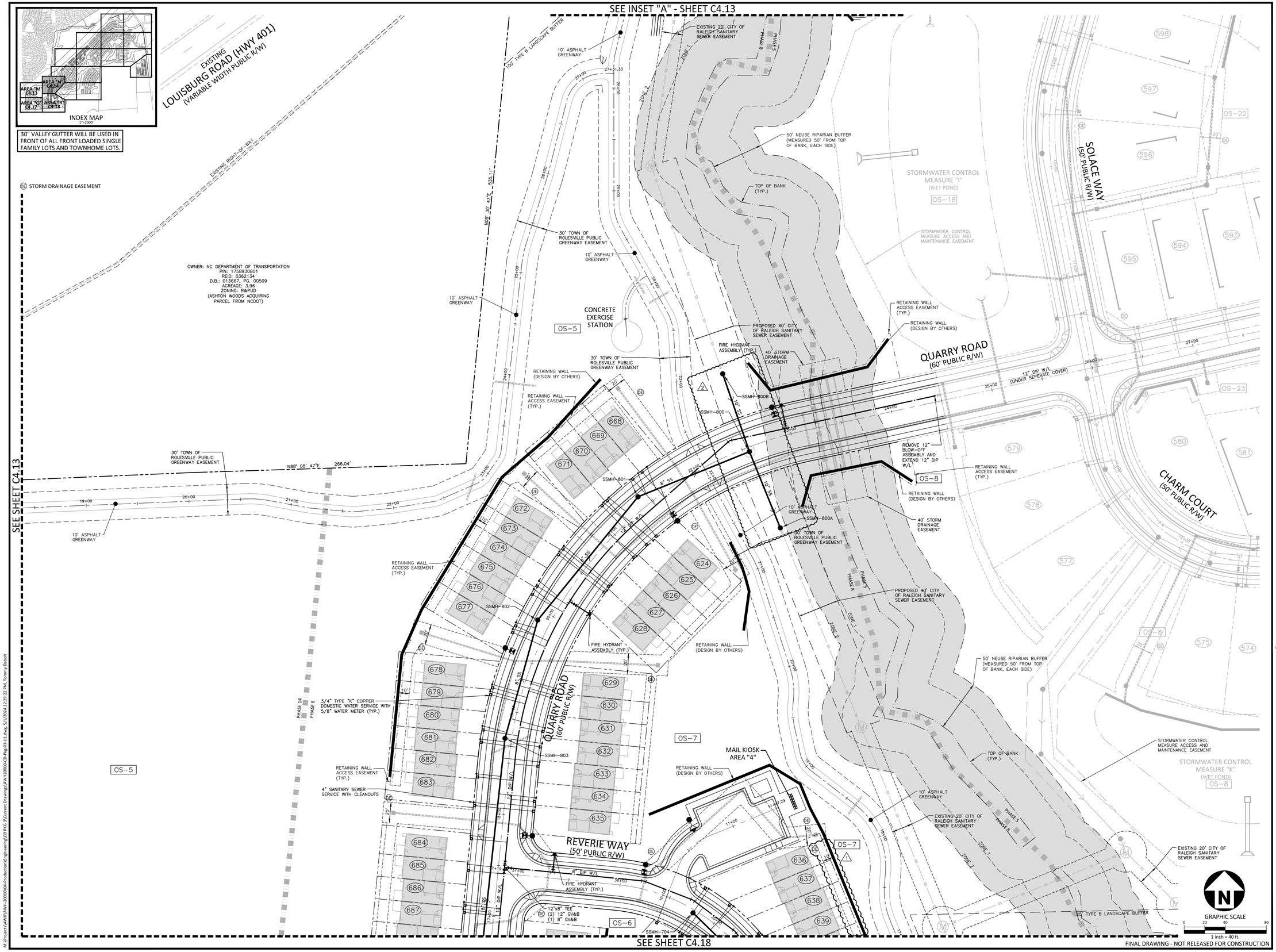
PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-U1
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 13. 2023

SHEET

UTILITY PLAN
AREA "M"

C4.13



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ASHTON WOODS

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PHASES 8 AND 14
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EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

W.T. O'Daniel
Digitally signed by William T O'Daniel
Date: 2024.05.01 14:36:48-04'00'

REVISIONS

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PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-U1
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 13. 2023

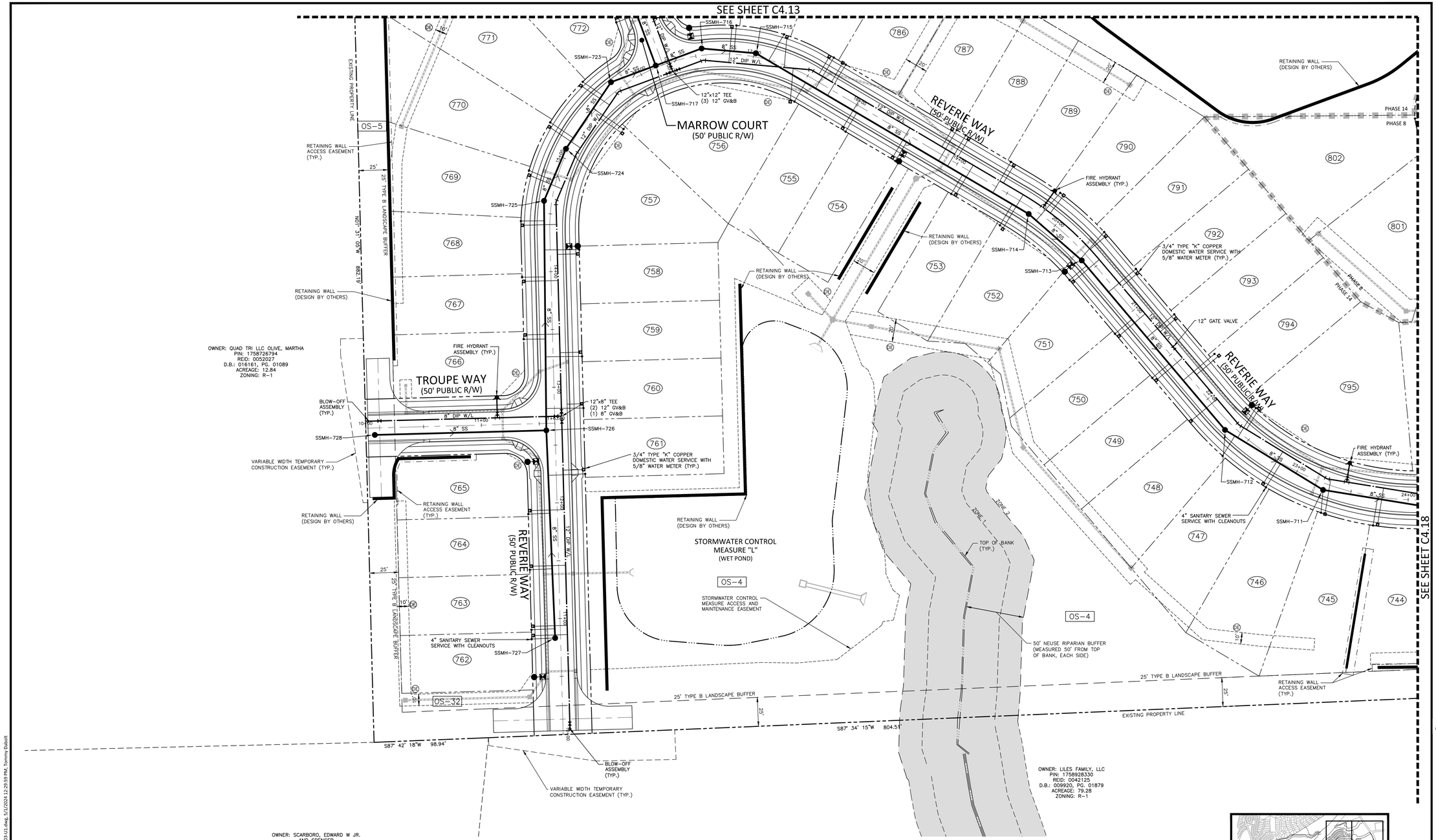
SHEET

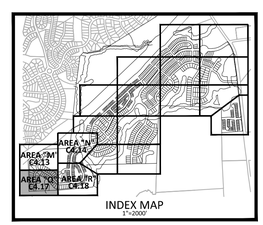
UTILITY PLAN
AREA "N"

C4.14

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-Pkg-03-U1.dwg, 5/7/2024 12:29:22 PM, Tommy Dalcin





30" VALLEY GUTTER WILL BE USED IN FRONT OF ALL FRONT LOADED SINGLE FAMILY LOTS AND TOWNHOME LOTS.

(DE) STORM DRAINAGE EASEMENT

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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McADAMS
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2905 Meridian Parkway
Durham, NC 27713

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fax 919. 361. 2269
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CLIENT

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RALEIGH, NORTH CAROLINA 27609
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CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T. O'Daniel
Date: 2024.05.01 14:36:49-04'00'

REVISIONS

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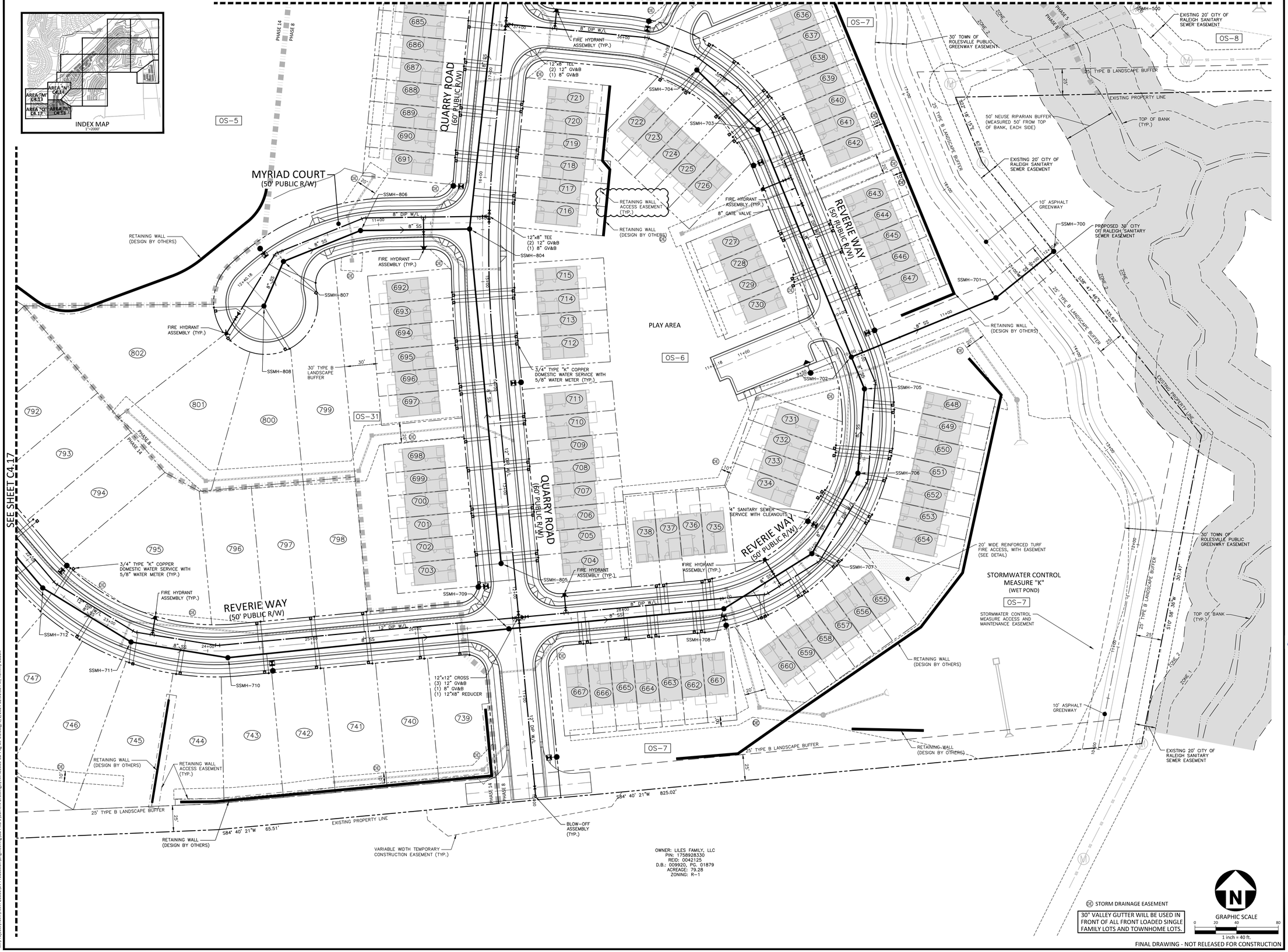
PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-U1
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 13. 2023

SHEET

UTILITY PLAN
AREA "Q"

C4.17



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ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

W.T. O'Daniel Digitally signed by William T O'Daniel
Date: 2024.05.01 14:36:51-04'00'

REVISIONS

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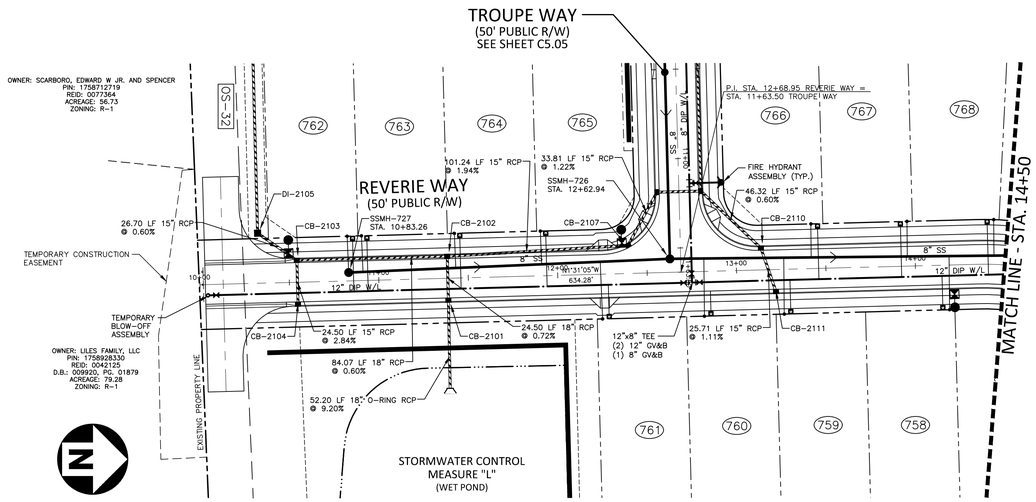
PLAN INFORMATION

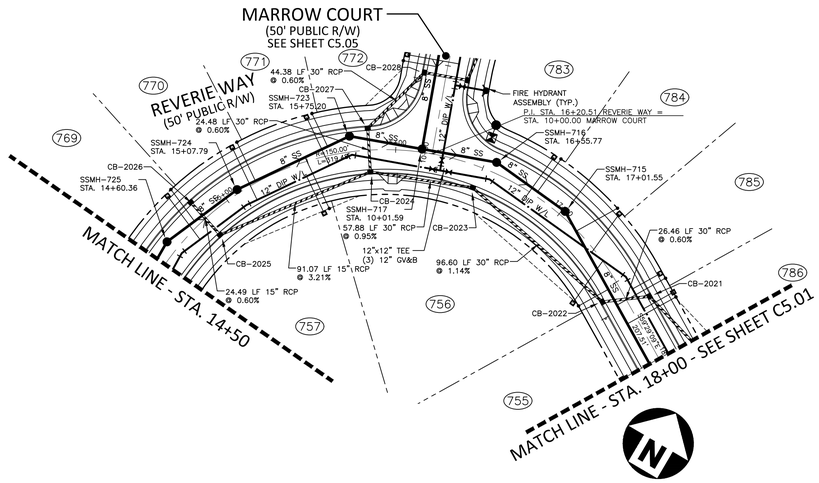
PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-U1
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 13. 2023

SHEET

UTILITY PLAN
AREA "R"
C4.18

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-Pkg-03-U1.dwg, 5/1/2024 12:31:38 PM, Tommy Dabolt





CB-2021
STA. 17+65.90
T/C=360.74
INV IN=355.24 (CB-2022)
INV OUT=354.67

CB-2022
STA. 17+55.90
T/C=361.01
INV IN=355.50 (CB-2023)
INV OUT=355.40

CB-2023
STA. 16+48.61
T/C=364.57
INV IN=356.70 (CB-2024)
INV OUT=356.60

CB-2024
STA. 15+85.11
T/C=366.73
INV IN=357.35 (CB-2027)
INV IN=362.48 (CB-2025)
INV OUT=357.25

CB-2025
STA. 14+84.04
T/C=369.91
INV IN=365.51 (CB-2026)
INV OUT=365.41

CB-2026
STA. 14+84.03
T/C=369.91
INV OUT=365.66

CB-2027
STA. 15+85.09
T/C=366.73
INV IN=357.59 (CB-2028)
INV OUT=357.49

CB-2101
STA. 11+38.58
T/C=367.12
INV IN=359.31 (CB-2102)
INV OUT=345.25

CB-2102
STA. 11+38.57
T/C=367.12
INV IN=362.87 (CB-2107)
INV IN=359.74 (CB-2103)
INV OUT=359.49

CB-2103
STA. 10+54.50
T/C=365.35
INV IN=360.40 (CB-2104)
INV IN=360.34 (DI-2105)
INV OUT=360.24

CB-2104
T/C=365.37
INV IN=357.45 (CB-2101)
INV OUT=357.35

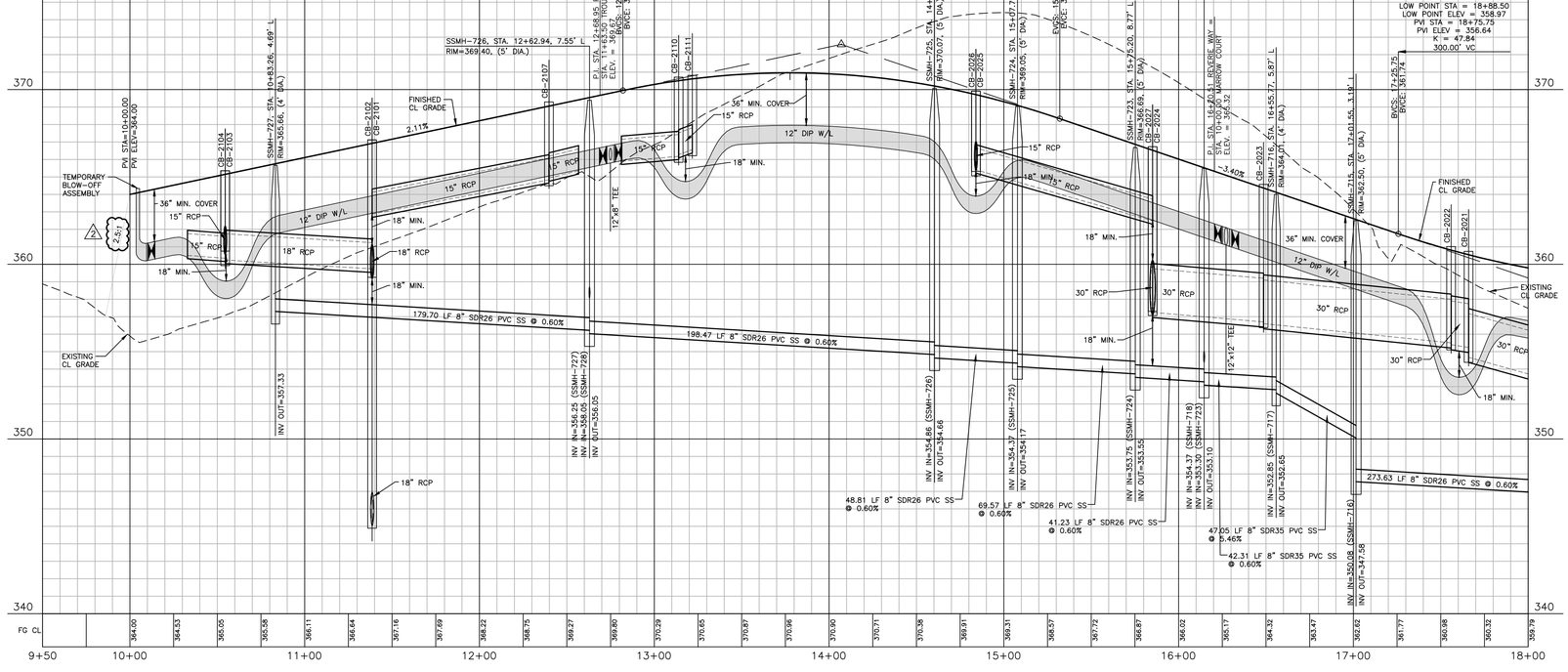
CB-2107
STA. 12+39.75
T/C=369.29
INV IN=364.94 (CB-2108)
INV OUT=364.84

CB-2110
STA. 13+13.94
T/C=370.71
INV IN=366.28 (CB-2111)
INV OUT=366.18

CB-2111
STA. 13+21.73
T/C=370.81
INV OUT=366.56

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

REVERIE WAY



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McAdams

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Durham, NC 27713

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RALEIGH, NORTH CAROLINA 27609
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CONTACT: BOB MISHLER

ASHTON WOODS

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPONSE TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPONSE TO MUNICIPAL COMMENTS

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T. O'Daniel
Date: 2024.05.01 14:49:58-04'00'

THE POINT - PHASES 8, AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

PLAN INFORMATION

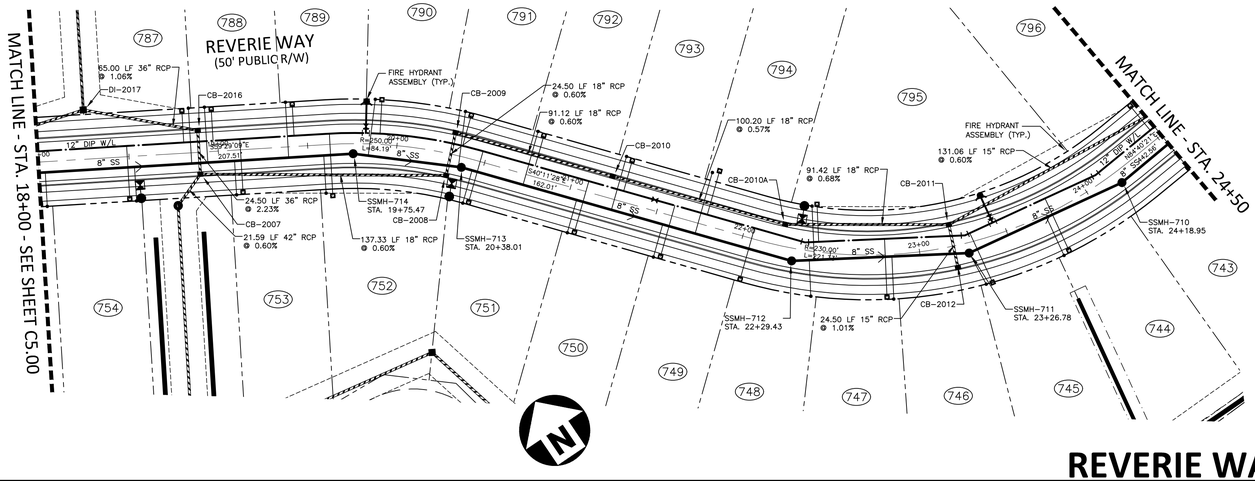
PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-Pkg-03-P1
CHECKED BY	WTO
DRAWN BY	TKD
SCALE	1"=40'/1"=4'
DATE	12. 13. 2023

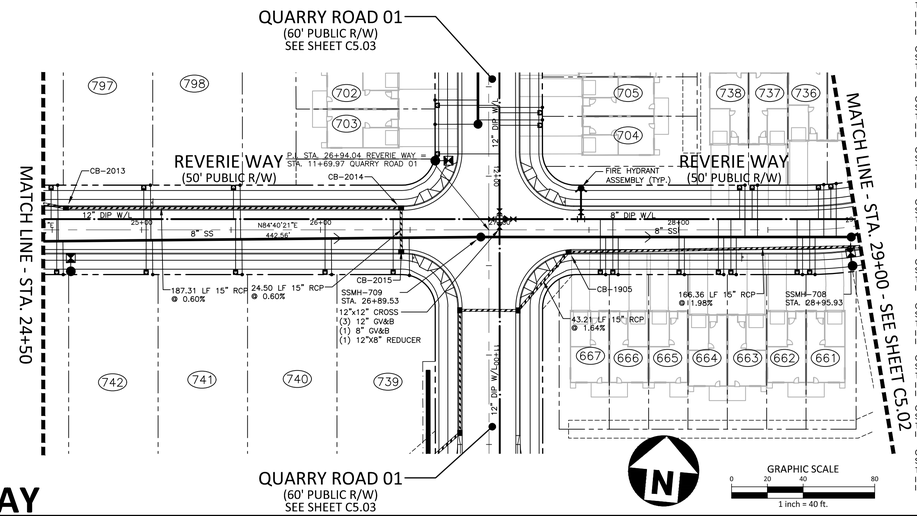
CID-24-01

PLAN AND PROFILE
REVERIE WAY, STA. 9+50 THRU STA. 18+00

C5.00

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-Pkg-03-P1.dwg, 5/1/2024 11:00:59 AM, Tommy Daboll





CB-2007
STA. 18+89.25
T/C=359.17
INV IN=348.77 (CB-2016)
INV IN=352.19 (CB-2008)
INV OUT=348.67

CB-2008
STA. 20+30.51
T/C=361.28
INV IN=353.11 (CB-2009)
INV OUT=353.01

CB-2009
STA. 20+30.51
T/C=361.28
INV IN=353.36 (CB-2010)
INV OUT=353.26

CB-2010
STA. 21+20.91
T/C=363.73
INV IN=354.00 (CB-2010A)
INV OUT=353.90

CB-2011
STA. 23+19.17
T/C=363.79
INV IN=359.29 (CB-2012)
INV IN=355.39 (CB-2013)
INV OUT=355.29

CB-2012
STA. 23+19.19
T/C=363.79
INV OUT=359.54

CB-2013
STA. 24+57.69
T/C=364.40
INV IN=356.28 (CB-2014)
INV OUT=356.18

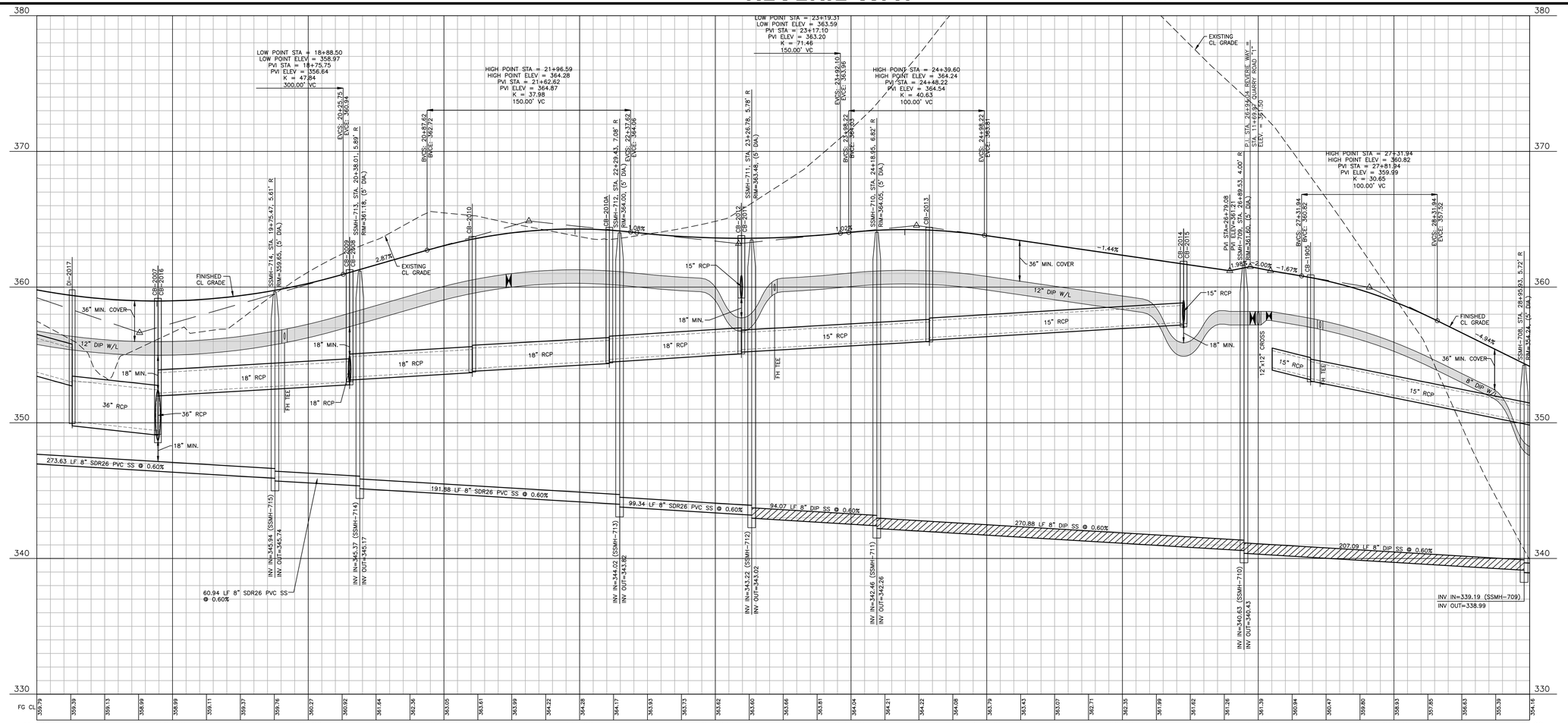
CB-2014
STA. 26+45.00
T/C=361.90
INV IN=357.50 (CB-2015)
INV OUT=357.40

CB-2015
STA. 26+45.08
T/C=361.90
INV OUT=357.65

CB-2016
STA. 18+89.25
T/C=359.17
INV IN=349.42 (DI-2017)
INV OUT=349.32

CB-1905
STA. 27+38.64
T/C=360.90
INV IN=353.36 (CB-1906)
INV OUT=353.26

REVERIE WAY



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REVISIONS

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NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:50:01-04'00'

THE POINT - PHASES 8, AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-Pkg-03-P1
CHECKED BY	WTO
DRAWN BY	TKD
SCALE	1"=40'/1"=4'
DATE	12. 13. 2023

CID-24-01

PLAN AND PROFILE
REVERIE WAY, STA. 18+00 THRU STA. 29+00

C5.01

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-Pkg-03-P1.dwg, 5/1/2024 11:02:51 AM, Tommy Daboll

CB–1903
STA. 29+03.00
T/C=354.21
INV IN=349.96 (CB–1905)
INV IN=349.81 (CB–1904)
INV OUT=349.56

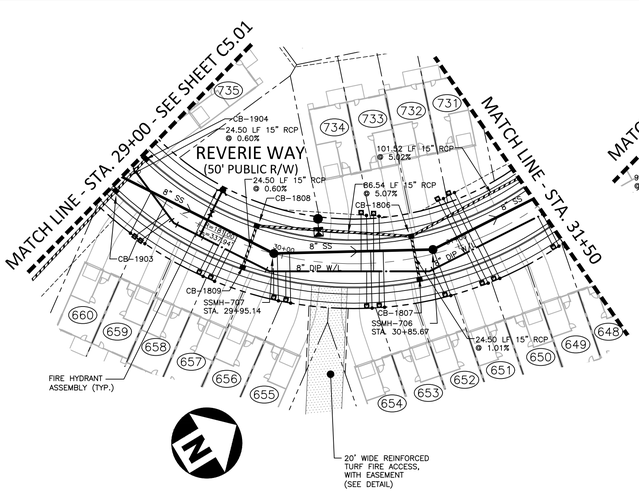
CB–1904
STA. 29+03.00
T/C=354.21
INV OUT=349.96

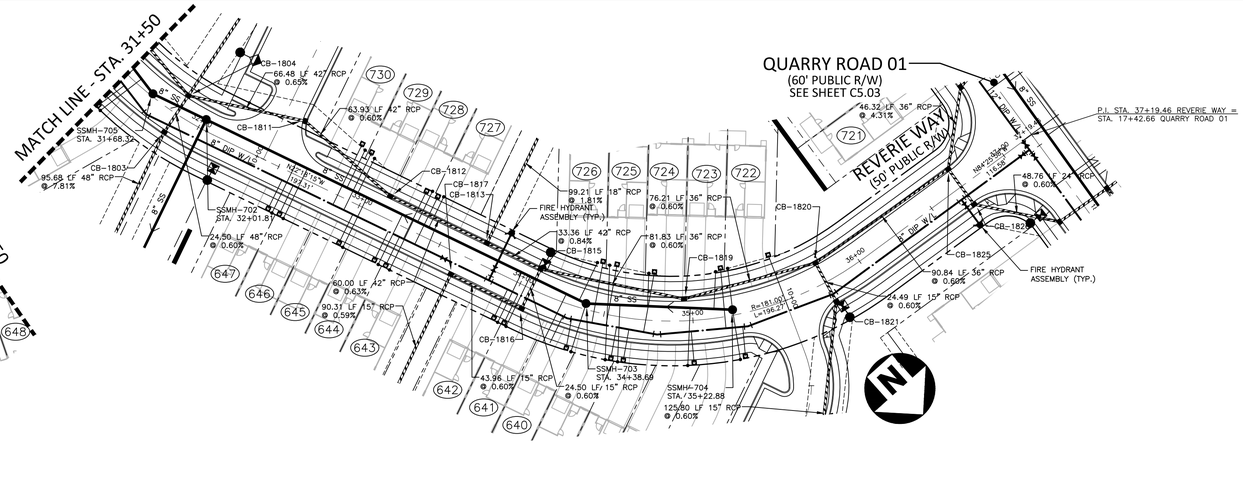
CB–1806
STA. 30+74.99
T/C=345.72
INV IN=341.22 (CB–1807)
INV IN=341.47 (CB–1808)
INV OUT=341.12

CB–1807
STA. 30+75.00
T/C=345.72
INV OUT=341.47

CB–1808
STA. 29+81.12
T/C=350.36
INV IN=345.96 (CB–1809)
INV OUT=345.86

CB–1809
STA. 29+81.13
T/C=350.36
INV OUT=346.11





CB–1803
STA. 31+85.59
T/C=340.27
INV IN=317.69 (CB–1804)
INV OUT=317.57

CB–1804
STA. 31+85.59
T/C=340.27
INV IN=318.30 (CB–1811)
INV IN=336.02 (CB–1806)
INV IN=333.26 (DI–1805)
INV OUT=317.83

CB–1811
STA. 32+51.83
T/C=338.36
INV IN=318.84 (CB–1812)
INV OUT=318.74

CB–1812
STA. 33+13.39
T/C=334.87
INV IN=319.32 (CB–1813)
INV OUT=319.22

CB–1813
STA. 33+73.39
T/C=333.78
INV IN=319.80 (CB–1815)
INV IN=328.20 (DI–1814)
INV OUT=319.70

CB–1815
STA. 34+06.77
T/C=333.62
INV IN=320.48 (CB–1819)
INV IN=329.04 (CB–1816)
INV OUT=320.08

CB–1816
STA. 34+06.77
T/C=333.62
INV IN=329.29 (CB–1817)
INV OUT=329.19

CB–1817
STA. 33+62.82
T/C=333.90
INV IN=329.65 (DI–1818)
INV OUT=329.55

CB–1819
STA. 34+95.42
T/C=334.74
INV IN=321.07 (CB–1820)
INV OUT=320.97

CB–1820
STA. 35+77.87
T/C=337.50
INV IN=321.63 (CB–1825)
INV IN=326.18 (CB–1821)
INV OUT=321.53

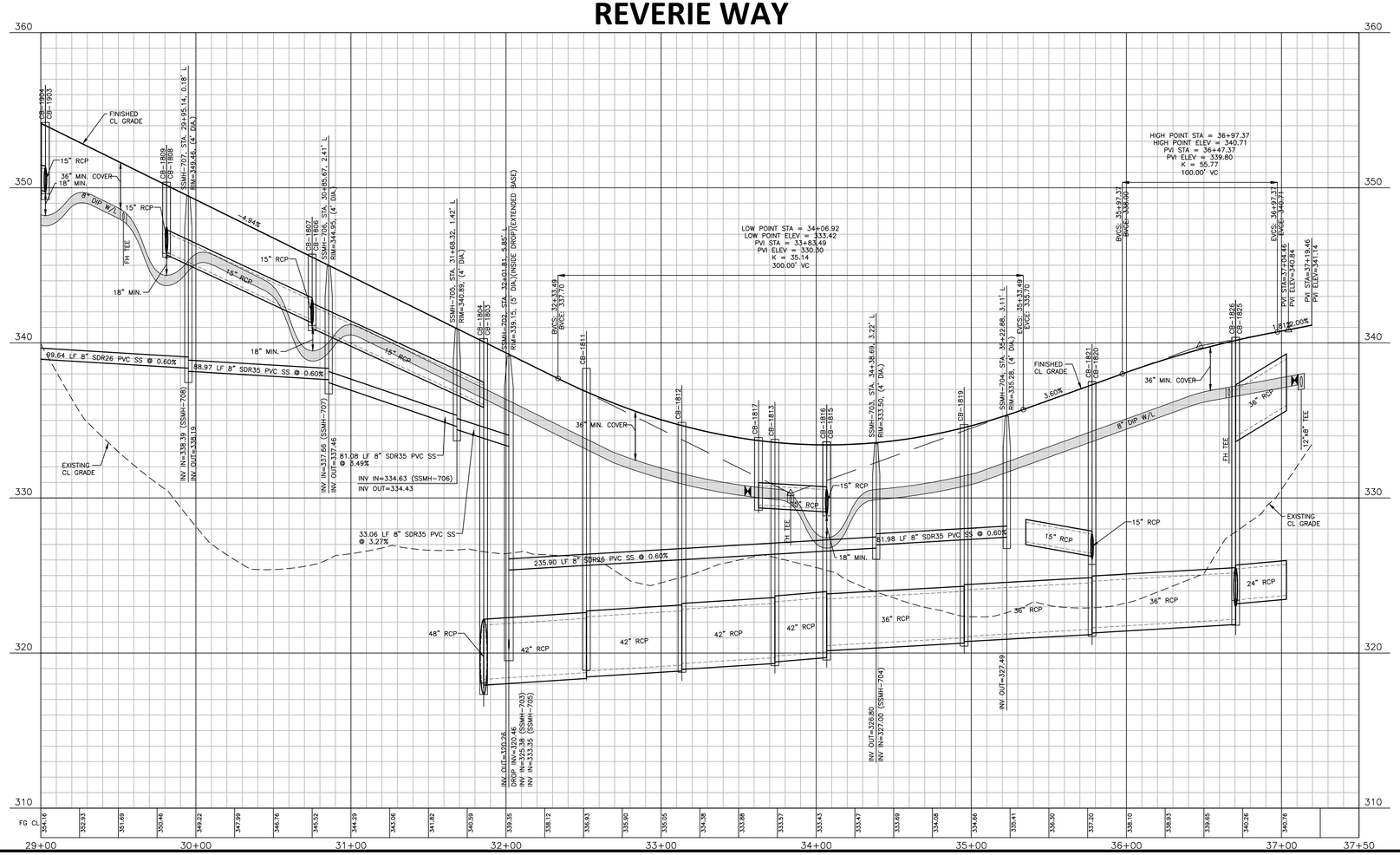
CB–1821
STA. 35+77.88
T/C=337.50
INV IN=326.42 (CB–1822)
INV OUT=326.32

CB–1825
STA. 36+70.46
T/C=340.36
INV IN=333.96 (CB–1836)
INV IN=323.18 (CB–1826)
INV OUT=322.18

CB–1826
STA. 36+70.46
T/C=340.36
INV IN=323.42 (CB–1827)
INV OUT=323.32

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

REVERIE WAY



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CID Pkg 3\Current Drawing\AWH20000-CD-Pkg-03-P1.dwg, 5/1/2024 11:04:53 AM, Tommy Dabolt

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Durham, NC 27713

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fax 919. 361. 2269
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RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPONSE TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPONSE TO MUNICIPAL COMMENTS

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:50:04-04'00'

THE POINT - PHASES 8, AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

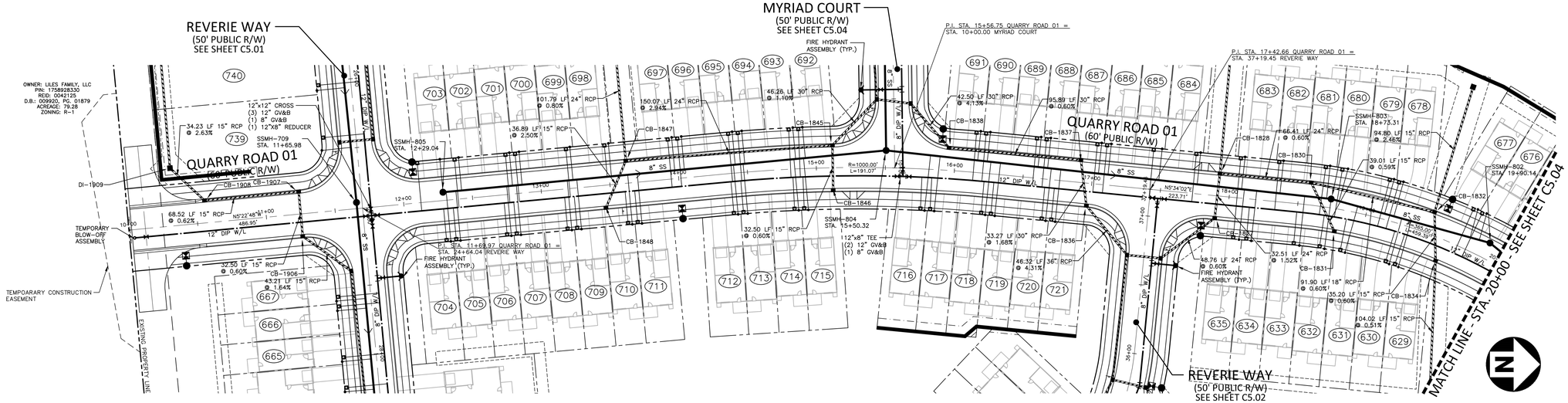
PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-Pkg-03-P1
CHECKED BY	WTO
DRAWN BY	TKD
SCALE	1"=40'/1"=4'
DATE	12. 13. 2023

CID-24-01

PLAN AND PROFILE
REVERIE WAY, STA. 29+00 THRU STA. 37+50

C5.02



CB-1827
STA. 17+91.04
T/C=339.34
INV IN=323.82 (CB-1828)
INV OUT=323.72

CB-1828
STA. 17+91.73
T/C=339.31
INV IN=334.25 (DI-1829)
INV IN=324.51 (CB-1830)
INV OUT=324.31

CB-1830
STA. 18+57.87
T/C=336.19
INV IN=326.41 (CB-1831)
INV IN=325.01 (CB-1832)
INV OUT=324.91

CB-1831
STA. 18+79.47
T/C=335.16
INV OUT=326.64

CB-1832
STA. 19+46.06
T/C=331.98
INV IN=325.91 (DI-1833)
INV IN=325.91 (CB-1834)
INV OUT=325.56

CB-1834
STA. 19+59.58
T/C=331.33
INV IN=326.22 (DI-1835)
INV OUT=326.12

CB-1836
STA. 16+97.66
T/C=342.67
INV IN=336.70 (CB-1837)
INV OUT=335.96

CB-1837
STA. 16+90.53
T/C=342.86
INV IN=337.36 (CB-1838)
INV OUT=337.26

CB-1838
STA. 15+95.17
T/C=344.96
INV IN=338.04 (CB-1839)
INV OUT=337.94

CB-1845
STA. 15+11.91
T/C=346.79
INV IN=342.34 (CB-1846)
INV IN=341.79 (CB-1847)
INV OUT=341.04

CB-1846
STA. 15+11.92
T/C=346.79
INV OUT=342.54

CB-1847
STA. 13+63.02
T/C=352.13
INV IN=347.80 (CB-1848)
INV IN=346.30 (DI-1849)
INV OUT=346.20

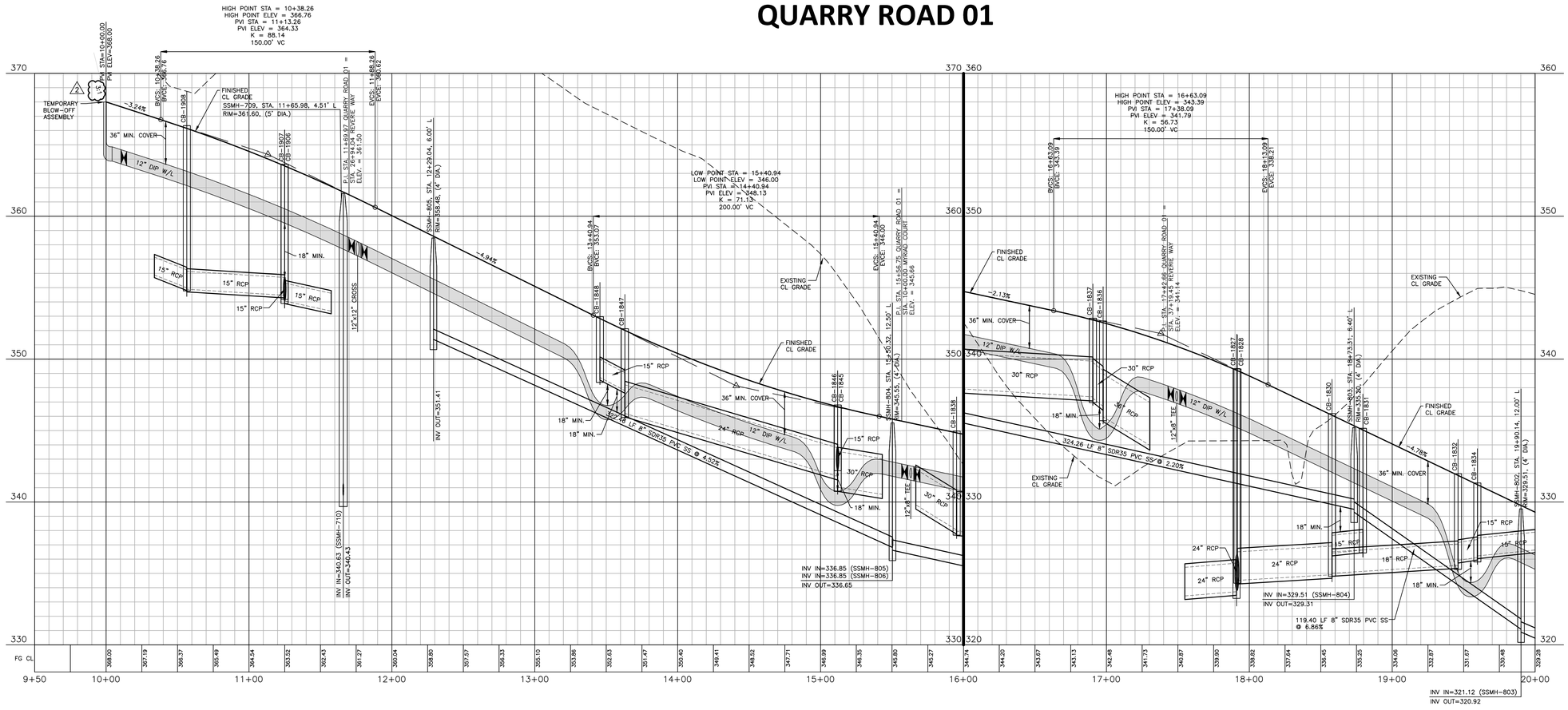
CB-1848
STA. 13+45.56
T/C=352.97
INV OUT=348.72

CB-1906
STA. 11+24.93
T/C=363.64
INV IN=354.17 (CB-1907)
INV OUT=354.07

CB-1907
STA. 11+25.02
T/C=363.64
INV IN=354.47 (CB-1908)
INV OUT=354.37

CB-1908
STA. 10+56.50
T/C=366.34
INV IN=354.99 (DI-1909)
INV OUT=354.89

QUARRY ROAD 01



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS

The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
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ASHTON WOODS

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2	05. 01. 2024	RESPONSE TO MUNICIPAL COMMENTS

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T. O'Daniel
Date: 2024.05.01 14:50:06-04'00'

THE POINT - PHASES 8, AND 14

CONSTRUCTION DRAWINGS - PACKAGE 3

TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-Pkg-03-P1
CHECKED BY	WTO
DRAWN BY	TKD
SCALE	1"=40'/1"=4'
DATE	12. 13. 2023

CID-24-01

PLAN AND PROFILE
QUARRY ROAD 01, STA. 9+50 THRU STA. 20+00

C5.03

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CB–1106
STA. 23+15.15
T/C=320.31
INV IN=315.66 (CB–1107)
INV IN=314.75 (CB–1108)
INV OUT=314.65

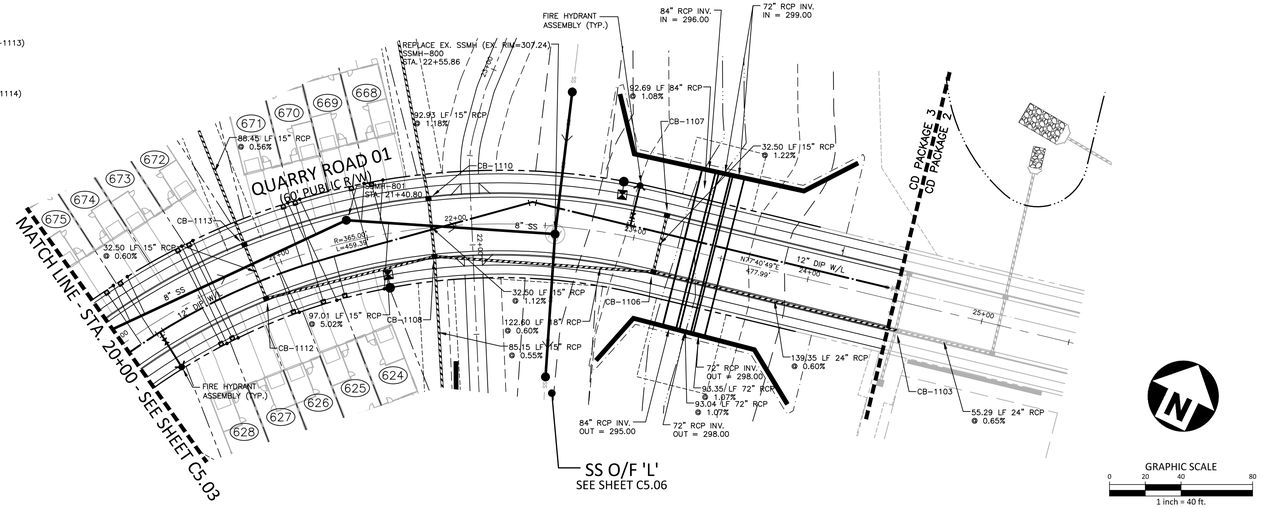
CB–1107
STA. 23+15.15
T/C=320.31
INV OUT=316.06

CB–1108
STA. 21+86.36
T/C=321.90
INV IN=315.85 (DI–1109)
INV IN=317.19 (CB–1110)
INV IN=315.79 (CB–1112)
INV OUT=315.49

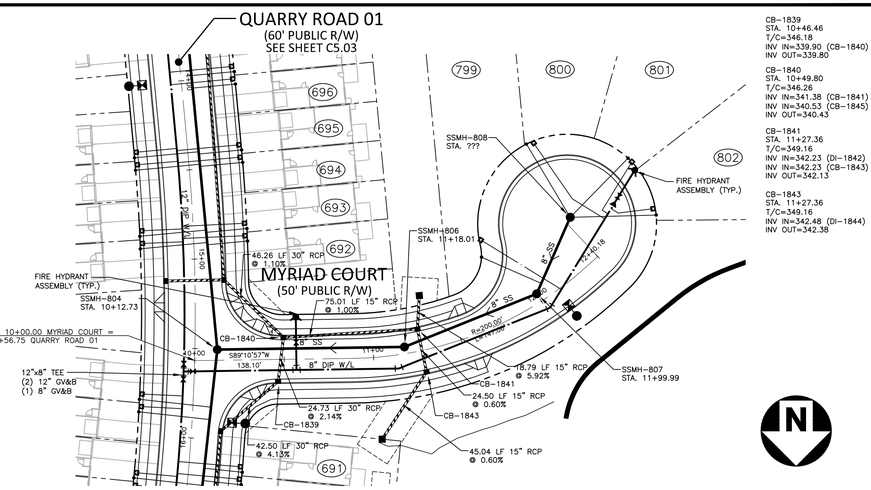
CB–1110
STA. 21+86.37
T/C=321.90
INV IN=317.65 (DI–1111)
INV OUT=317.55

CB–1112
STA. 20+84.51
T/C=325.40
INV IN=320.76 (CB–1113)
INV OUT=320.66

CB–1113
STA. 20+84.51
T/C=325.40
INV IN=321.06 (DI–1114)
INV OUT=320.96



GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.



CB–1839
STA. 10+46.46
T/C=346.18
INV IN=339.90 (CB–1840)
INV OUT=339.80

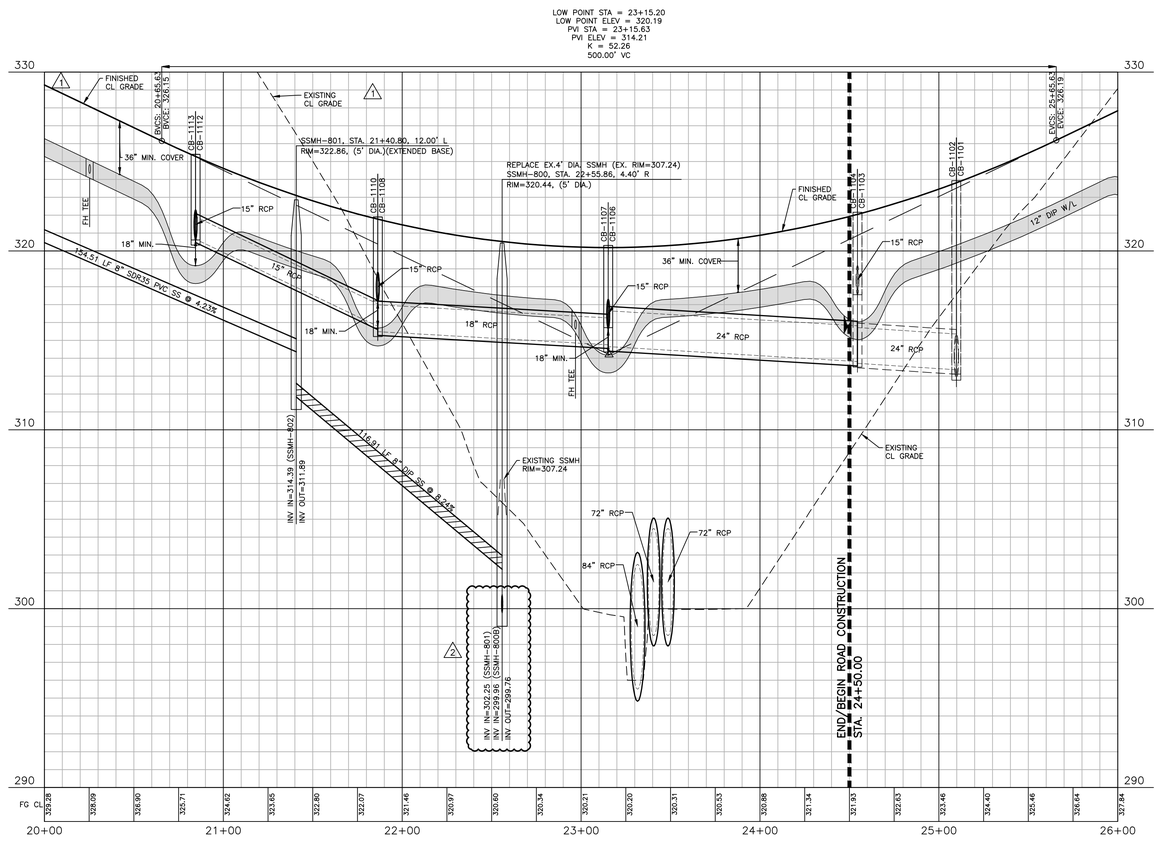
CB–1840
STA. 10+49.80
T/C=346.26
INV IN=341.38 (CB–1841)
INV IN=340.53 (CB–1845)
INV OUT=340.43

CB–1841
STA. 11+27.36
T/C=349.16
INV IN=342.23 (DI–1842)
INV IN=342.23 (CB–1843)
INV OUT=342.13

CB–1843
STA. 11+27.36
T/C=349.16
INV IN=342.48 (DI–1844)
INV OUT=342.38

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

QUARRY ROAD 01



MYRIAD COURT

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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McAdams
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CONTACT: BOB MISHLER
ASHTON WOODS

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPONSE TO MUNICIPAL COMMENTS
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NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:50:08-04'00'

THE POINT - PHASES 8, AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

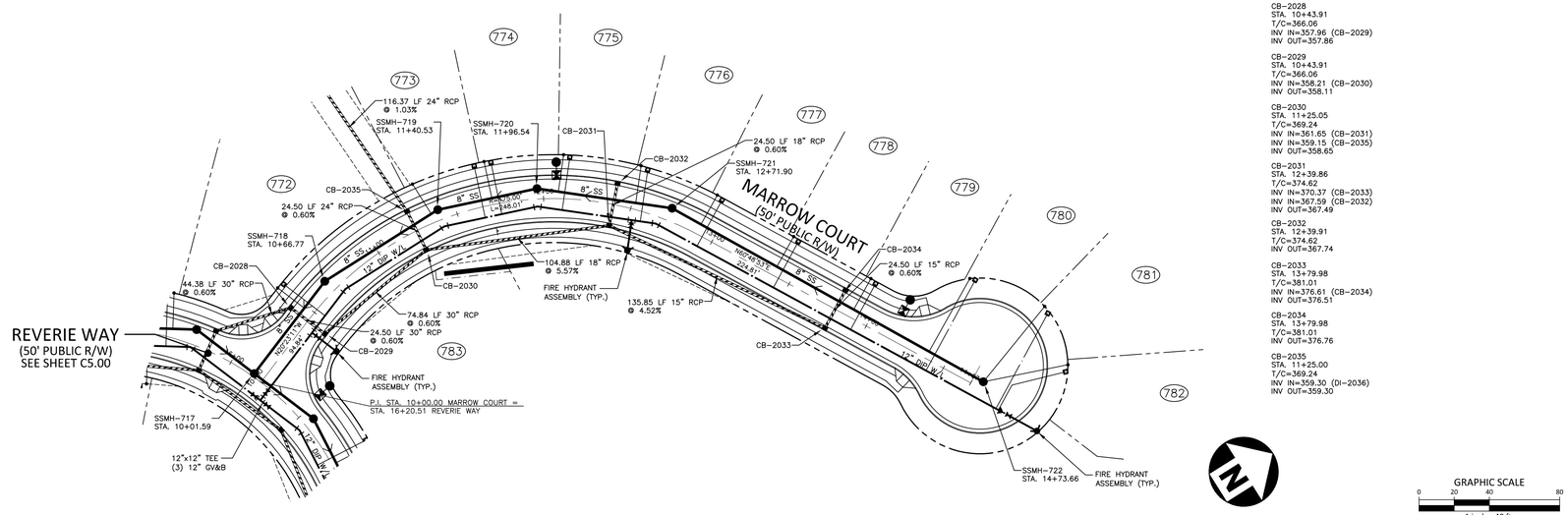
PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-Pkg-03-P1
CHECKED BY	WTO
DRAWN BY	TKD
SCALE	1"=40'/1"=4'
DATE	12. 13. 2023

CID-24-01

PLAN AND PROFILE
QUARRY ROAD 01, STA. 20+00 THRU STA. 26+00
MYRIAD COURT, STA. 9+50 THRU STA. 13+00

C5.04



CB-2028
STA. 10+43.91
T/C=366.06
INV IN=357.96 (CB-2029)
INV OUT=357.86

CB-2029
STA. 10+43.91
T/C=366.06
INV IN=358.21 (CB-2030)
INV OUT=358.11

CB-2030
STA. 11+25.05
T/C=369.24
INV IN=361.65 (CB-2031)
INV IN=359.15 (CB-2035)
INV OUT=358.65

CB-2031
STA. 12+39.86
T/C=374.62
INV IN=370.37 (CB-2033)
INV IN=367.59 (CB-2032)
INV OUT=367.49

CB-2032
STA. 12+39.91
T/C=374.62
INV OUT=367.74

CB-2033
STA. 13+79.98
T/C=381.01
INV IN=376.61 (CB-2034)
INV OUT=376.51

CB-2034
STA. 13+79.98
T/C=381.01
INV OUT=376.76

CB-2035
STA. 11+25.00
T/C=369.24
INV IN=359.30 (DI-2036)
INV OUT=359.30

GRAPHIC SCALE
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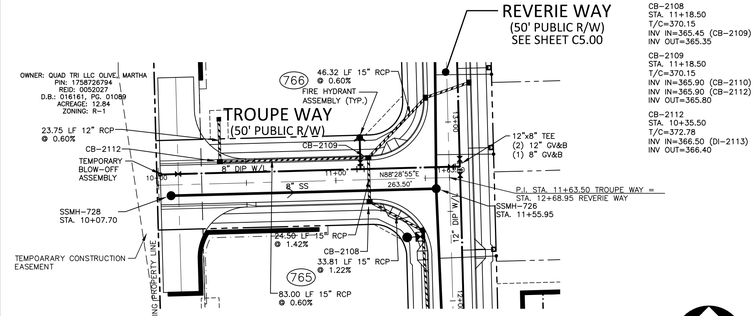
1 inch = 40 ft.



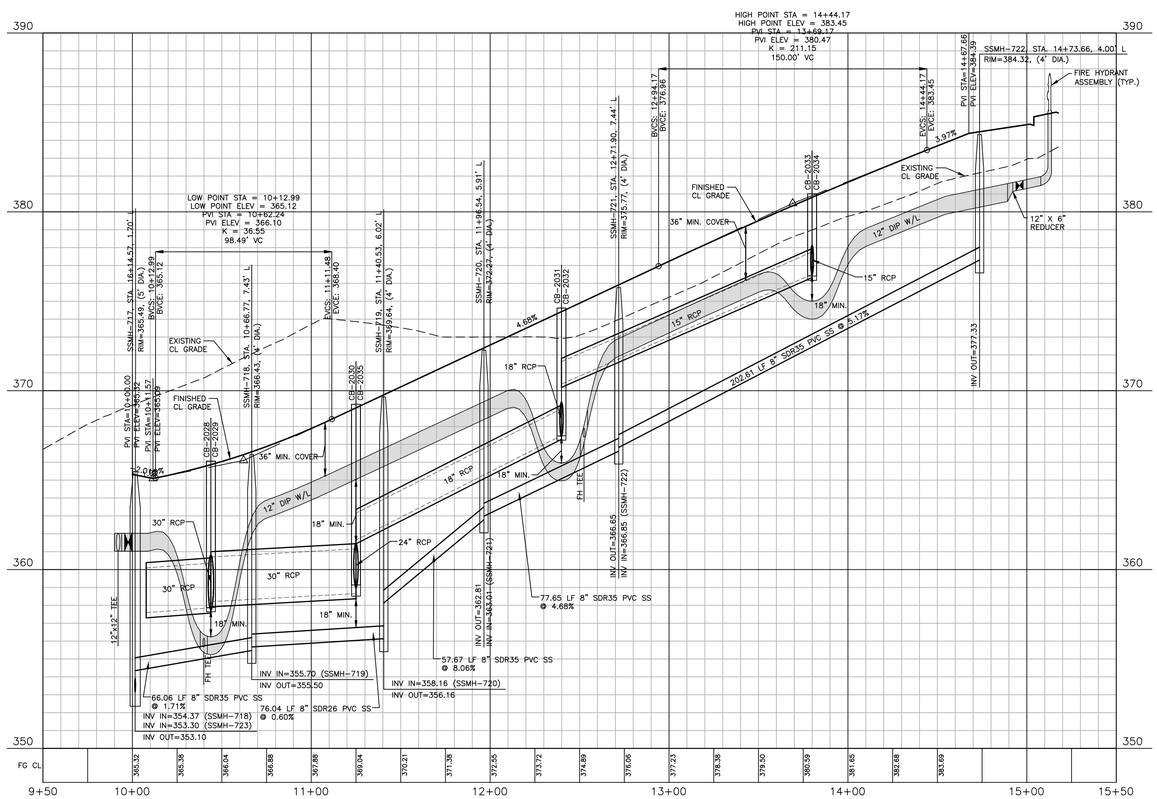
CB-2108
STA. 11+18.50
T/C=370.15
INV IN=365.45 (CB-2109)
INV OUT=365.35

CB-2109
STA. 11+18.50
T/C=370.15
INV IN=365.90 (CB-2110)
INV IN=365.90 (CB-2112)
INV OUT=365.80

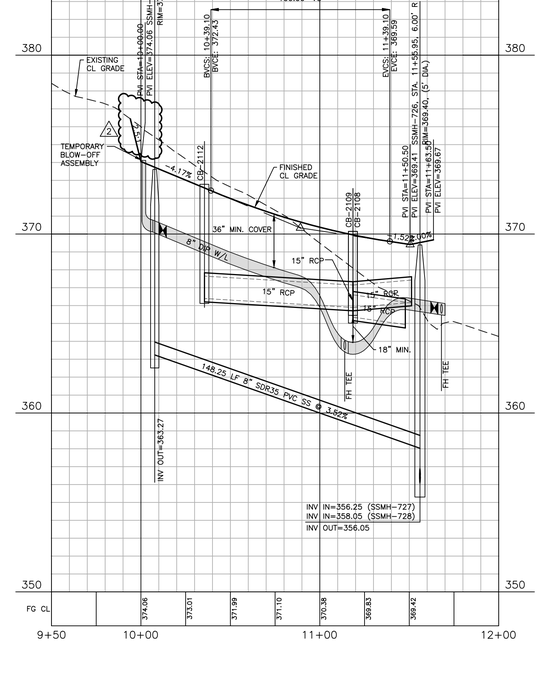
CB-2112
STA. 10+35.50
T/C=372.78
INV IN=366.50 (DI-2113)
INV OUT=366.40

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

MARROW COURT



TROUPE WAY



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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McAdams

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Date: 2024.05.01 14:50:11-04'00'

THE POINT - PHASES 8, AND 14

CONSTRUCTION DRAWINGS - PACKAGE 3

TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

PLAN INFORMATION

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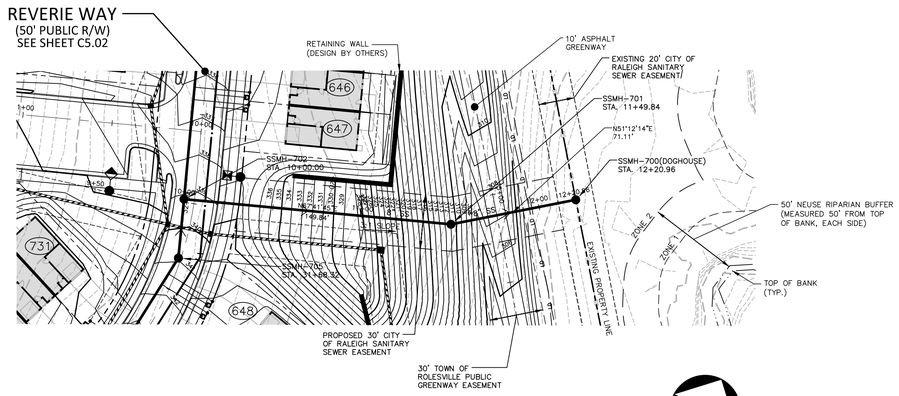
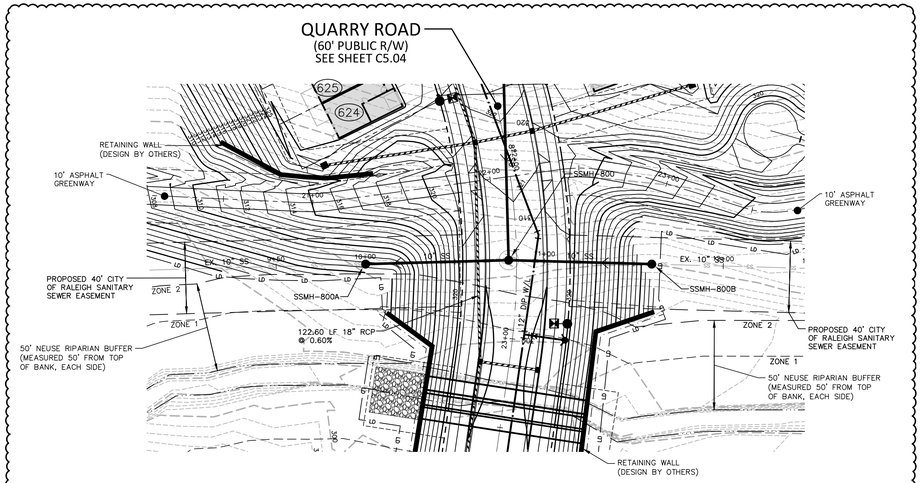
CHECKED BY	WTO
DRAWN BY	TKD
SCALE	1"=40'/1"=4'
DATE	12. 13. 2023

CID-24-01

PLAN AND PROFILE
MARROW COURT, STA. 9+50 THRU STA. 15+50
TROUPE WAY, STA. 9+50 THRU STA. 12+00

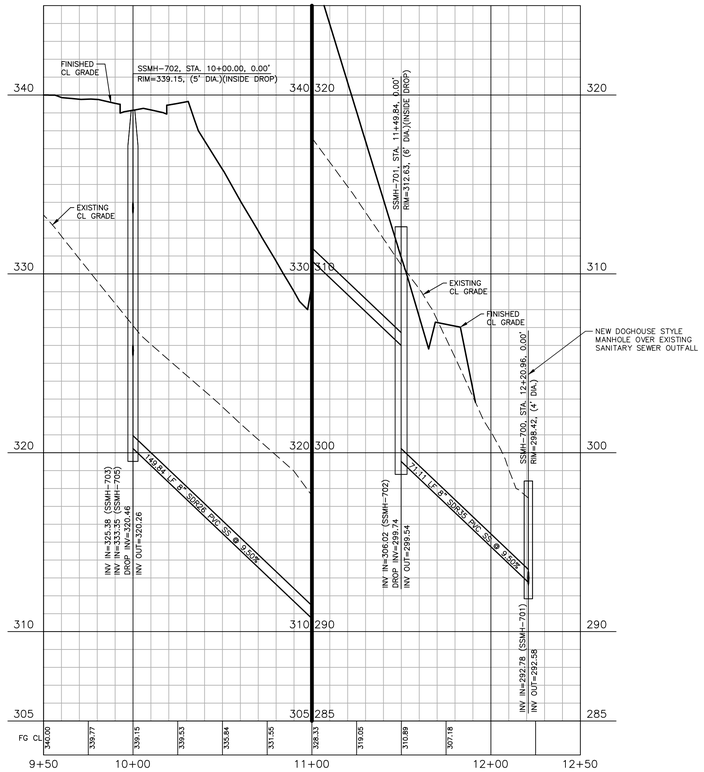
C5.05



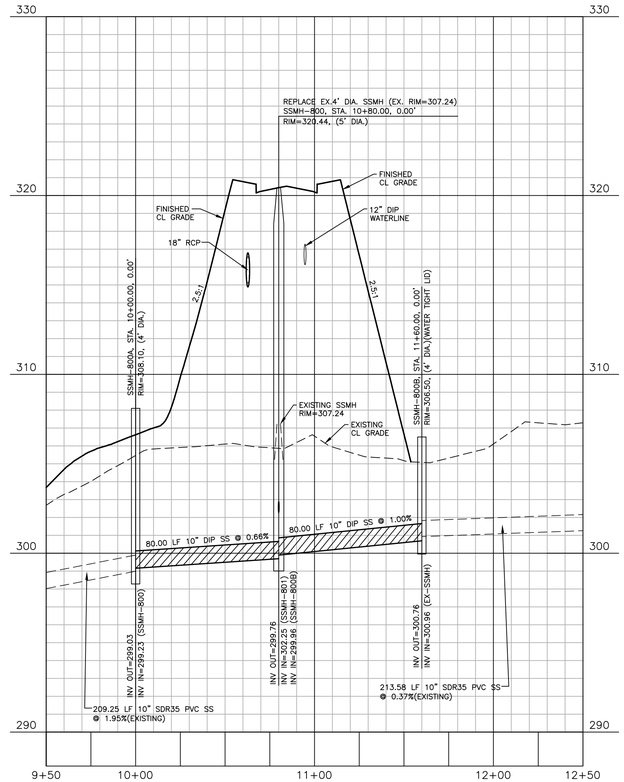


GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

SS O/F "K"



SS O/F "K"



2

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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THE POINT - PHASES 8, AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

PLAN INFORMATION

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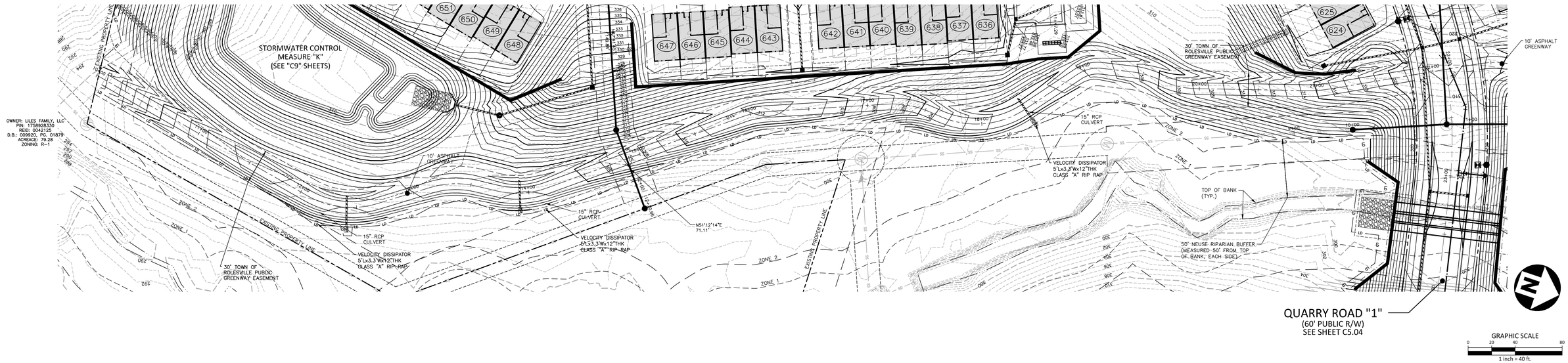
DRAWN BY	TKD
SCALE	1"=40'/1"=4'
DATE	12. 13. 2023

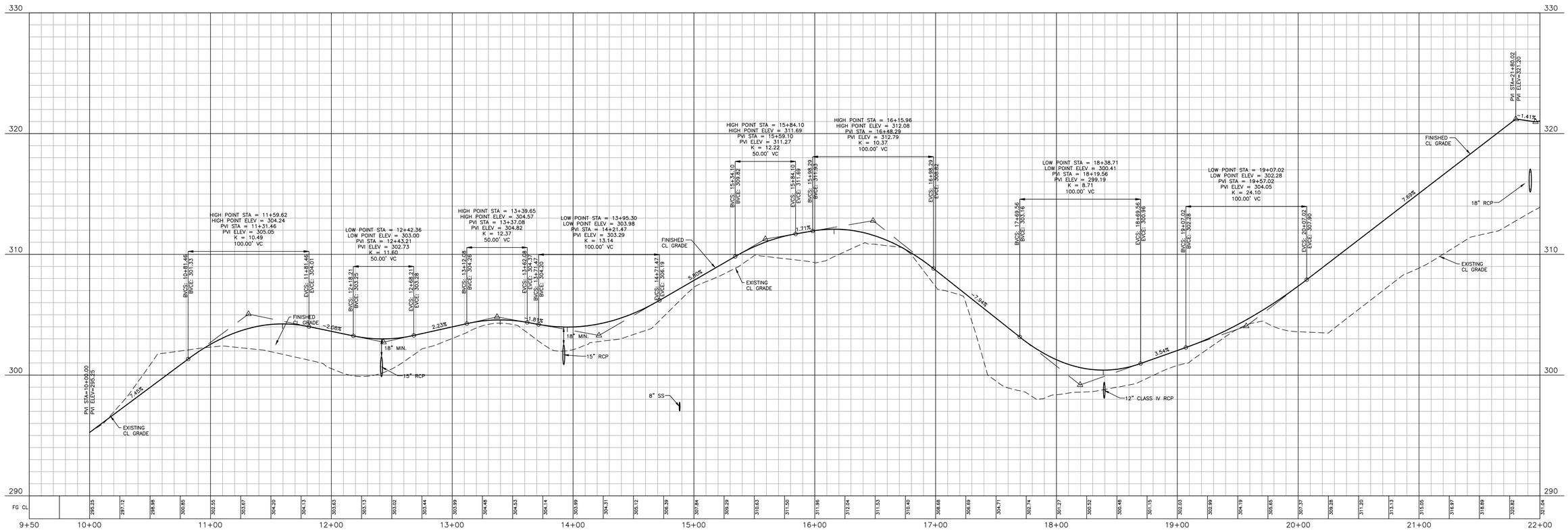
CID-24-01

PLAN AND PROFILE
SS O/F "K", STA. 9+50 THRU STA. 12+50

C5.06



⚠2 GREENWAY "1"



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT
ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPONSE TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPONSE TO MUNICIPAL COMMENTS

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:50:17-04'00'

THE POINT - PHASES 8, AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-Pkg-03-P2
CHECKED BY	WTO
DRAWN BY	TKD
SCALE	1"=40'/1"=4'
DATE	12. 13. 2023

CID-24-01

PLAN AND PROFILE
GREENWAY "1", STA. 9+50 THRU STA. 22+00

C5.07

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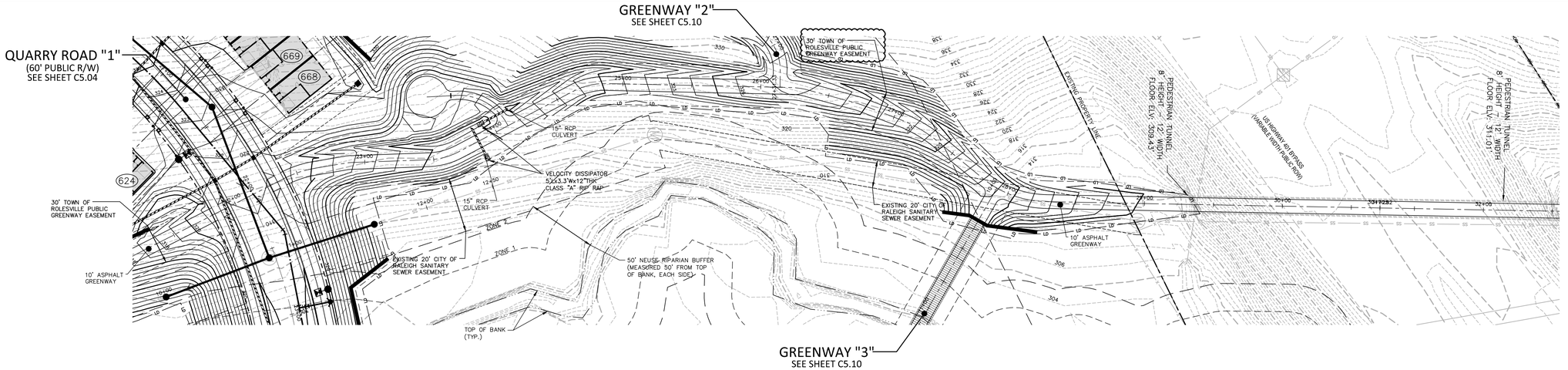

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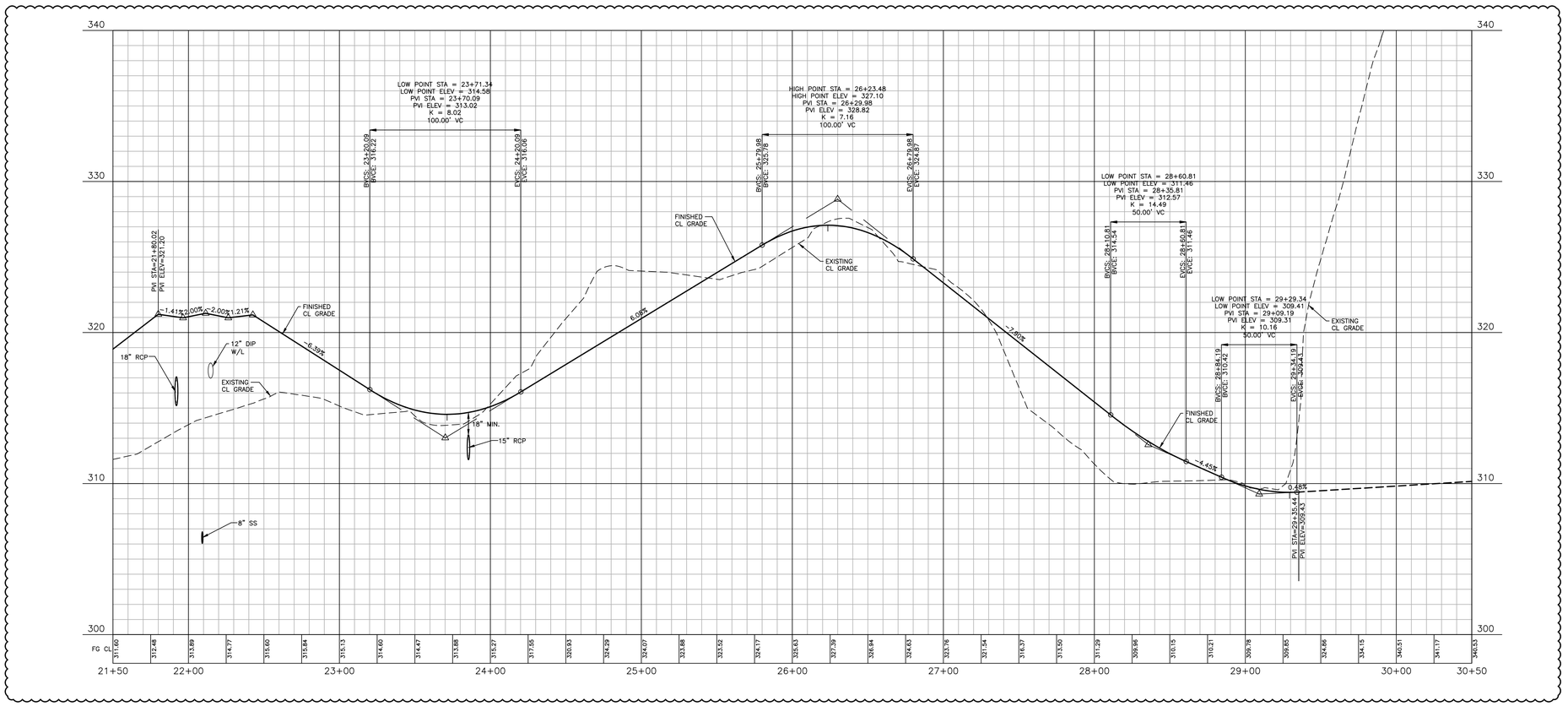

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THE POINT - PHASES 8, AND 14
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WAKE COUNTY, NORTH CAROLINA

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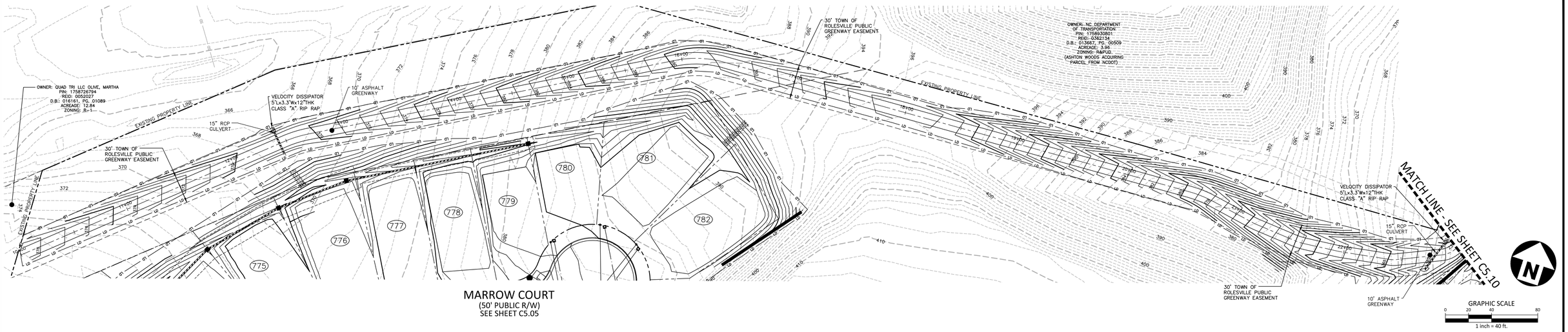
SCALE	1"=40'/1"=4'
DATE	12. 13. 2023

CID-24-01

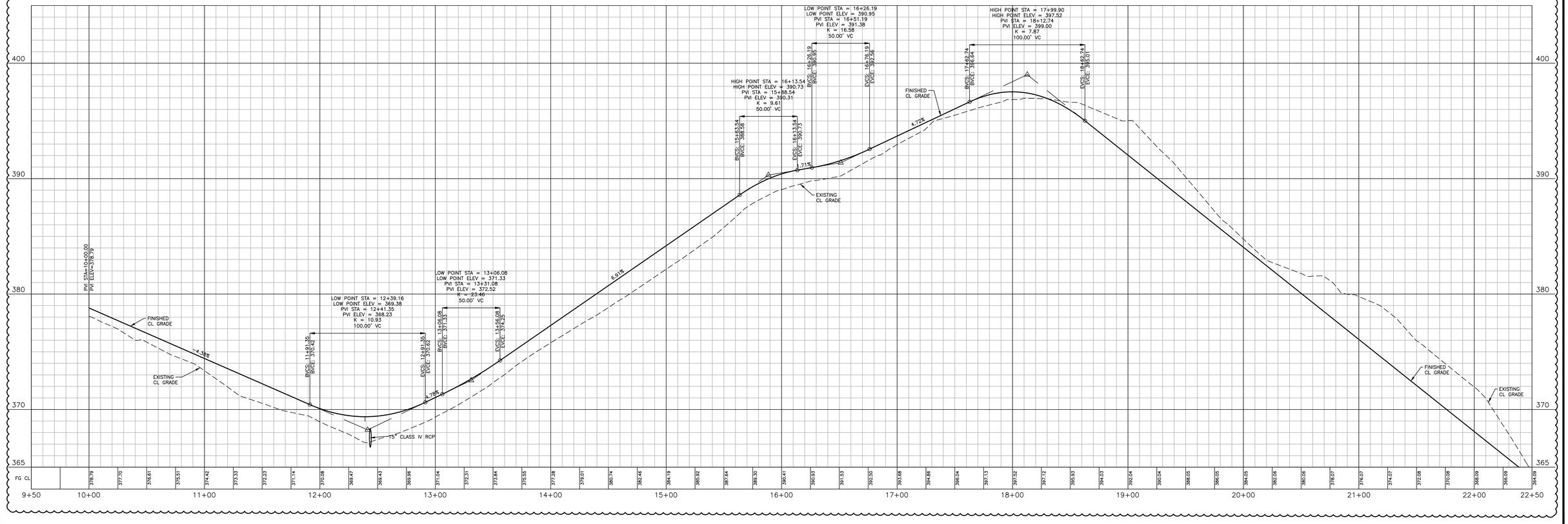
PLAN AND PROFILE
GREENWAY "1", STA. 21+50 THRU STA. 30+50

C5.08



MARROW COURT
(50' PUBLIC R/W)
SEE SHEET C5.05

GREENWAY "2" (2)



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THE POINT - PHASES 8, AND 14
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PLAN AND PROFILE
GREENWAY "2", STA. 9+50 THRU STA. 22+50

C5.09

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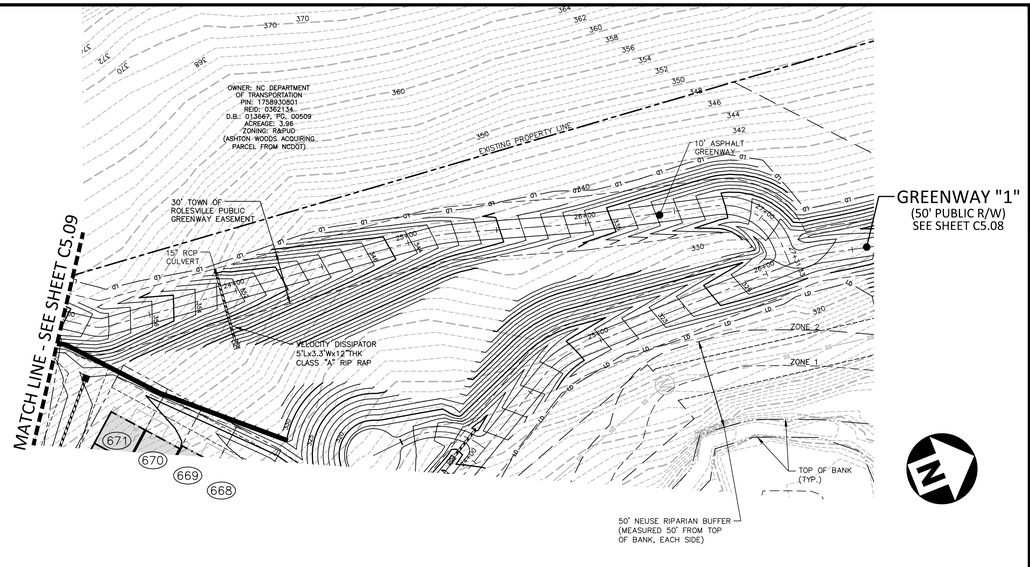
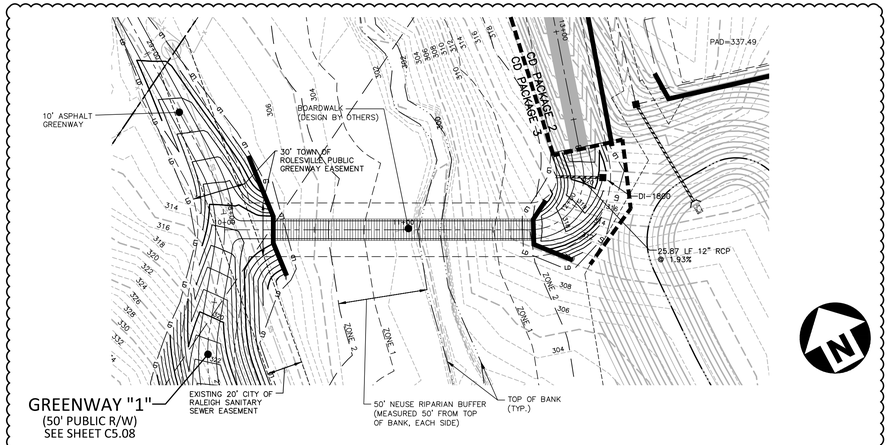
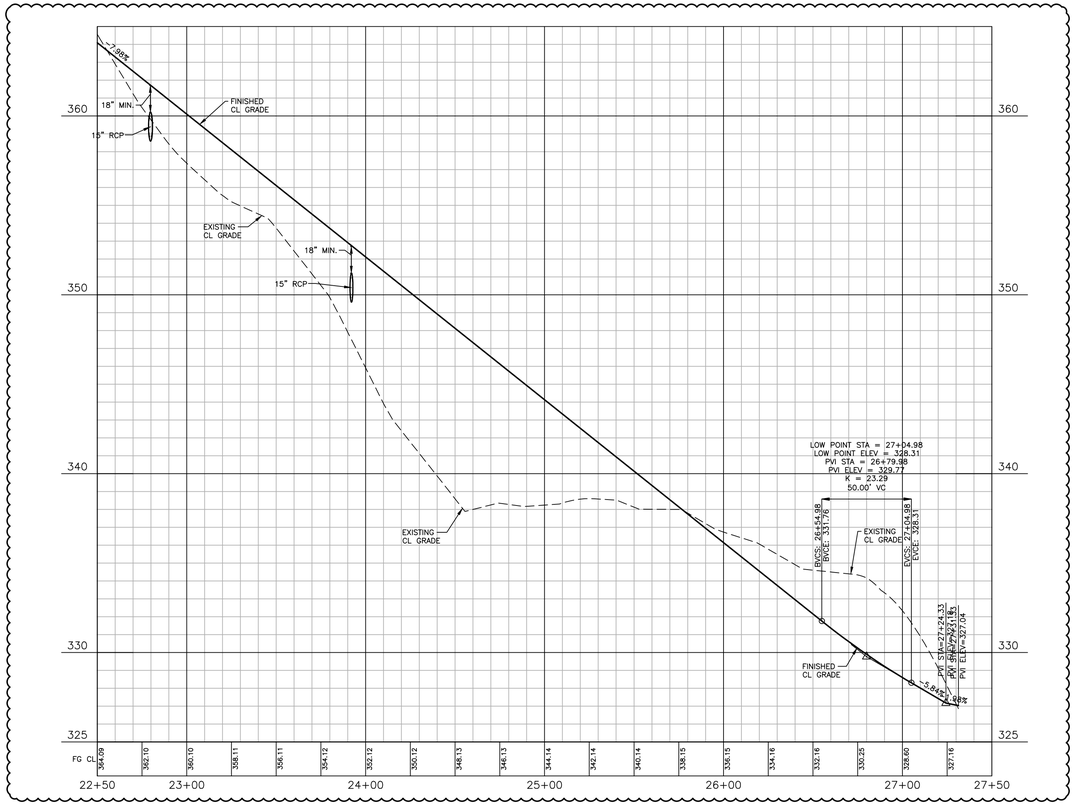




GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

GREENWAY "2" 2



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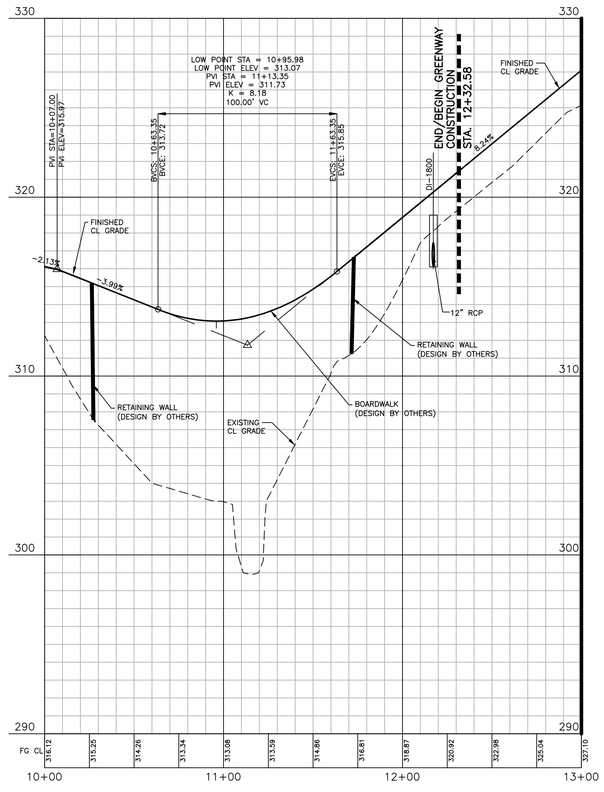

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WAKE COUNTY, NORTH CAROLINA

PLAN INFORMATION

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CID-24-01

PLAN AND PROFILE
GREENWAY "2", STA. 22+50 THRU STA. 27+50
GREENWAY "3", STA. 10+00 THRU STA. 13+00

C5.10

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EROSION CONTROL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF ROLESVILLE AND WAKE COUNTY STANDARDS, SPECIFICATIONS AND DETAILS.
2. GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE WAKE COUNTY SOIL AND EROSION CONTROL STANDARDS AND SPECIFICATIONS.
3. GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES DIVISION OF WATER QUALITY (DWQ) STANDARDS AND SPECIFICATIONS. WHERE DIFFERENT FROM WAKE COUNTY STANDARDS, THE MORE STRINGENT METHOD SHALL BE APPLIED.
4. FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY EITHER THE COUNTY EROSION CONTROL DEPARTMENT OR THE DWQ.
5. CONTRACTOR SHALL SEED AND STABILIZE ALL STEEP SLOPES (GREATER THAN 2H:1V) WITHIN 7 DAYS, 10 DAYS FOR MODERATE SLOPES (3H:1V OR GREATER) AND WITHIN 14 CALENDAR DAYS EVERYWHERE ELSE (STATE LAW 2009-486).
6. FOR ANY LAND-DISTURBING ACTIVITY WHERE GRADING ACTIVITIES HAVE BEEN COMPLETED, TEMPORARY OR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION SHALL BE PROVIDED AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER COMPLETING THE WORK. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE ON THE PLAN.
7. NO DEBRIS SHALL BE TRACKED ONTO PUBLIC RIGHT OF WAY. IF THE SITUATION OCCURS WHERE MUD, ROCK AND DEBRIS IS TRACKED ONTO PAVEMENT, THE CONTRACTOR SHALL CLEAN THE PAVEMENT AND INSTALL ADDITIONAL MEASURES TO PREVENT THE FUTURE OCCURRENCE.
8. THE EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL FIELD MEASURES AS NECESSARY TO PROVIDE ADEQUATE PROTECTION FROM RECEIVING WATER COURSES.
9. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR SHALL CALL FOR AN INSPECTION BY WAKE COUNTY SEDIMENTATION AND EROSION CONTROL (SEC) ONCE INITIAL MEASURES ARE IN PLACE. (SEE CONSTRUCTION SEQUENCE)
10. CONTRACTOR SHALL INSPECT ALL SEDIMENT /EROSION CONTROL DEVICES AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
11. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
12. CONSTRUCTION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GRADING CONTRACTOR UNLESS OTHERWISE NOTED.
13. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
14. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY/COUNTY ENGINEERING DEPARTMENT AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
15. PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE STRIPPING OF TOPSOIL OR LOWERING OF EXISTING GRADE AROUND A TREE, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA AND SHALL BE POSTED ON THE PROTECTION FENCE. A PROTECTION FENCE CONSTRUCTED OF MATERIAL RESISTANT TO DEGRADATION BY SUN, WIND, AND MOISTURE FOR THE DURATION OF THE CONSTRUCTION, SHALL BE INSTALLED AT THE SAME TIME AS THE EROSION CONTROL MEASURES AND SHALL BE IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
16. A CONSTRUCTION SEQUENCE HAS BEEN PROVIDED. INSTALLATION OF ALL PROPOSED SEDIMENTATION & EROSION CONTROL MEASURES IN THE SEQUENCE(S) PROVIDED AND MAINTENANCE OF THOSE DEVICES IS REQUIRED. THE CONTRACTOR MAY BE ALLOWED, WITH PRIOR APPROVAL FROM THE OWNER, TO COORDINATE CHANGES TO THE PLAN WITH THE ON-SITE SEDIMENTATION & EROSION CONTROL INSPECTOR AND THE ENGINEER.
17. PROVIDE INLET PROTECTION AROUND ALL SITE STORM INLETS. PROTECT OPEN PIPES UNDER CONSTRUCTION WITH EITHER PLYWOOD OR WITH MESH AND GRAVEL WEIRS. RUNOFF SHALL NOT BE ALLOWED IN ANY OPEN TRENCH.
18. CONTRACTOR WILL FIELD LOCATE SILT FENCE OUTLETS AT LOW POINTS IN SILT FENCE AS REQUIRED TO PROVIDE RELIEF FROM CONCENTRATED FLOWS.
19. TEMPORARY DIVERSIONS SHALL BE MAINTAINED DAILY BY CONTRACTOR SO THAT THEY ARE FUNCTIONAL AT THE END OF EACH WORKDAY AND WHEN STOPPING WORK FOR RAIN.
20. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
21. DISTURBANCE OUTSIDE OF THE SITE PROPERTY LIMITS OR PUBLIC RIGHT-OF-WAY SHALL ONLY BE AS ALLOWED BY SIGNED GRADING AGREEMENTS AND/OR EASEMENTS BETWEEN THE DEVELOPER AND THE OFFSITE PROPERTY OWNER.
22. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE OPEN ACCESS TO ALL PROPERTIES ALONG ADJACENT PROPERTIES DURING CONSTRUCTION PERIOD FOR IMPROVEMENTS.
23. STORM DRAINAGE STRUCTURE LOCATIONS AND PIPE SIZES SUBJECT TO FINAL CONSTRUCTION DRAWING APPROVAL.

STOCKPILE NOTES

DESIGN CRITERIA

A. STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES.

B. STOCKPILE HEIGHT SHALL NOT EXCEED 35 FEET.

C. STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.

D. 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).

E. 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.

F. 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.

G. THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE IS REQUIRED.

H. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

I. STOCKPILE MUST HAVE SILT FENCE WRAPPED AROUND THE LOW SIDE(S) AND A SILT FENCE OUTLET AT ALL LOW POINTS.

CONSTRUCTION SEQUENCE - STAGE 1:

1. OBTAIN GRADING PERMIT FROM THE WAKE COUNTY ENVIRONMENTAL SERVICES DEPARTMENT.
2. CALL ENVIRONMENTAL CONSULTANT JEEVAN NEUPANE, PE (919-819-8907) TO SCHEDULE A PRE-CONSTRUCTION MEETING. NOTIFY OWNER AND ENGINEER WHEN PRECON IS SCHEDULED SO THEY MAY ALSO ATTEND.
3. CONTRACTOR WILL BE REQUIRED TO SUBMIT SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY (NCG010000) TO WAKE COUNTY INSPECTIONS THROUGHOUT THE PROJECT.
4. INSTALL THE FOLLOWING EROSION AND SEDIMENTATION CONTROL DEVICES PER THE APPROVED PLAN IN THE FOLLOWING ORDER:
   a. GRAVEL CONSTRUCTION ENTRANCES AND TEMPORARY ACCESS ROADS.
   b. TREE PROTECTION FENCE
   c. SILT FENCING SURROUNDING SITE WITH SILT FENCE OUTLETS.
   d. INLET PROTECTION FOR EXISTING INLETS WITHIN ROADWAYS.
5. INSTALL THE FOLLOWING EROSION AND SEDIMENTATION CONTROL DEVICES PER THE APPROVED PLAN IN THE FOLLOWING ORDER:
   a. SKIMMER BASINS WITH POROUS BAFFLES AND OUTLET PROTECTION.
   b. RIP RAP BASINS
   c. TEMPORARY DIVERSION DITCHES WITH SPECIFIED LINERS.
6. AFTER TEMPORARY DIVERSION DITCHES, SILT FENCING, AND RIP RAP BASINS ARE IN PLACE; BEGIN INSTALLING THE STREAM DIVERSION/PUMP-AROUND AS SHOWN ON SHEET C6.14A. FOLLOW THE SEQUENCE BELOW:
   a. INSTALL "AQUA BARRIER" (OR EQUIVALENT) COFFER DAMS AS SHOWN ON THE PLAN
   b. PROVIDE PUMP AND DIVERT PUMPED FLOW THROUGH A FILTER BAG AS SHOWN AND DISCHARGE FLOW DOWNSTREAM OF THE STREAM CROSSING AREA.
   c. MAINTAIN THE ABOVE DEVICES UNTIL THE PERMANENT STREAM CROSSING IS COMPLETE AND STABILIZED.
7. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
8. CLEAR AND GRUB AREA FOR FUTURE CONSTRUCTION. CONTRACTOR TO COORDINATE WITH DEVELOPER TO OBTAIN NECESSARY OFFSITE EASEMENTS.
9. WHEN STAGE 1 CONSTRUCTION IS COMPLETE, CALL WAKE COUNTY ENVIRONMENTAL SERVICES FOR INSPECTION. PROCEED TO STAGE 2.

CONSTRUCTION SEQUENCE - STAGE 2:

1. MAINTAIN DEVICES AS NEEDED IN ACCORDANCE WITH THE NOTES ON THIS SHEET.
2. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 14 DAYS OF INACTIVITY.
3. CONTRACTOR SHALL INSPECT AND REPAIR ALL EROSION CONTROL DEVICES ONCE PER WEEK AND AFTER EVERY RAINFALL EVENT. GRADING ACTIVITY SHALL BE PROHIBITED IN THE AREAS OF THE SEDIMENT CONTROL DEVICES UNTIL THE AREAS UPSTREAM OF THESE DEVICES HAVE BEEN STABILIZED AND APPROVED.
4. BEGIN MASS GRADING OF SITE. AS AREAS ARE BROUGHT UP TO PROPOSED GRADE, STABILIZE SITE WITH VEGETATION. ADJUST DIVERSION DITCHES AS NECESSARY TO MAINTAIN FLOW TO SKIMMER BASINS AND RIP RAP BASINS.
5. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE IN DIVERSION DITCHES AND TO SEDIMENT BASINS AND RIP RAP BASINS AT ALL TIMES THROUGHOUT CONSTRUCTION.
2 6. INSTALL STORM SEWER, AS SHOWN ON THE PLANS, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS.
7. SUBMIT DOCUMENTATION REQUIRED UNDER THE SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY (NCG010000) TO WAKE COUNTY THROUGHOUT THE PROJECT.
8. SEED AND MULCH AREAS DISTURBED ALONG PROJECT PERIMETER AND AREAS DOWNSTREAM OF SEDIMENT BASINS SHALL BE STABILIZED IMMEDIATELY UPON CONSTRUCTION. SEE "SEEDING AND MULCHING" NOTES ON THIS SHEET.
9. ALL OFF-SITE STREETS SHALL BE KEPT CLEAN AS NOTED IN EROSION CONTROL NOTES DURING HAUL OFF OF EXCAVATED MATERIAL.
10. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 14 DAYS OF INACTIVITY.

CONSTRUCTION SEQUENCE - STAGE 3:

1. COMPLETE FINE GRADING OF SITE. CONTINUE TO STABILIZE DISTURBED AREAS WITH VEGETATION AS GRADING IS COMPLETED.
2. INSTALL AND MAINTAIN PERMANENT SLOPE PROTECTION LINERS AS SHOWN ON PLAN.
3. NOTIFY NCDEQ-DEMLR AND WAKE COUNTY E&SC INSPECTOR, A MINIMUM OF 10 DAYS PRIOR TO INITIATING BASIN DEWATERING/REMOVAL SEQUENCE, PER NCG01 PERMIT.
4. SEE BASIN REMOVAL SEQUENCE ON THIS SHEET.
2 5. PRIOR TO THE REMOVAL, REDUCTION OR CONVERSION OF ANY SEDIMENT BASIN, THE CONTRACTOR IS TO CONTACT THE WAKE COUNTY ENVIRONMENTAL CONSULTANT JEEVAN NEUPANE, PE (919-819-8907). WAKE COUNTY MUST GRANT PERMISSION TO CONVERT THE SEDIMENT BASIN OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED WORK

EROSION CONTROL MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BY THE SITE CONTRACTOR FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL MEASURES AS DESIGNED.
2. THE SEDIMENT BASINS SHALL BE INSPECTED REGULARLY DURING LAND DISTURBING ACTIVITIES AND AFTER EACH RUNOFF-PRODUCING RAINFALL. SEDIMENT SHALL BE REMOVED AND THE BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF EACH BASIN. PORTIONS OF THE BASIN'S GRAVEL FACING THAT ARE CONTAMINATED BY SEDIMENT SHALL BE REPLACED WITH FRESH GRAVEL DURING EACH SEDIMENT REMOVAL EPISODE.
3. SEDIMENT FENCES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED AS NEEDED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAINFALL EVENT, AND TO REDUCE PRESSURE ON THE FENCE. FENCING MATERIALS AND SEDIMENT DEPOSITS SHALL BE REMOVED, AND THE AREA BROUGHT TO GRADE FOLLOWING STABILIZATION OF UPGRADIENT DISTURBED AREAS.
4. DIVERSION DITCHES MUST REMAIN IN PLACE UNTIL PROJECT IS STABILIZED. PERMISSION SHALL BE GIVEN BY THE EROSION CONTROL INSPECTOR FOR REMOVAL UPON COMPLETION OF PERMANENT UPSTREAM STABILIZATION.

BASIN REMOVAL SEQUENCE

1. SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL ENGINEER/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 2. WAKE COUNTY MUST GRANT PERMISSION TO CONVERT THE SEDIMENT BASIN OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED WORK
3. 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.
4. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ASPHALT TACK ANY RESULTING BARE AREAS IMMEDIATELY.
5. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
6. WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL ENGINEER/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 ENGINEER/CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.

TEMPORARY DIVERSION DITCH DESIGN TABLE

TEMPORARY DIVERSION ID	TD-1	TD-2	TD-3	TD-4	TD-5	TD-6	TD-7	TD-8
MINIMUM DEPTH (FT)	1.23	0.95	0.7	1.15	0.68	0.41	0.93	0.28
MINIMUM BOTTOM WIDTH (FT)	0	0	0	0	0	0	0	0
CALCULATED VELOCITY	8.91	3.01	2.28	3.72	2.50	2.25	7.82	1.18
ALLOWABLE VELOCITY	9.0	6.0	6.0	6.0	6.0	6.0	10.0	5.0
CALCULATED SHEAR STRESS	4.12	1.43	1.12	1.61	1.41	1.58	1.92	0.49
ALLOWABLE SHEAR STRESS	8.0	1.75	1.75	1.75	1.75	1.75	2.35	1.55
TEMPORARY LINER SPECIFICATION*	NO LINER	ERONET S150	ERONET S150	ERONET S150	ERONET S150	ERONET S150	BIONET C125BN	ERONET S75
PERMANENT LINER SPECIFICATION*	ERONET P300	NO LINER	NO LINER	NO LINER	NO LINER	NO LINER	NO LINER	NO LINER

* ALL SPECIFICATIONS ARE NORTH AMERICAN GREEN ROLLMAX PRODUCTS OR EQUAL

SEDIMENT TRAP DESIGN TABLE

SEDIMENT TRAP ID	SB-K	SB-L	ST-1	ST-2	ST-3	RB-1	RB-2	RB-3	RB-4	RB-5	RB-6
Qa (CFS)	49.3 cfs	58.0 cfs	11.4 cfs	28.5 cfs	14.8 cfs	0.3 cfs	0.3 cfs	0.3 cfs	0.6 cfs	0.9 cfs	0.6 cfs
Bottom Length	N/A	N/A	80	130 ft	100 ft	10 ft	10 ft	6 ft	12 ft	18 ft	14 ft
Bottom Width	N/A	N/A	40	60 ft	40 ft	5 ft	5 ft	3 ft	6 ft	9 ft	6 ft
Sediment Depth	5.5 ft	3.5 ft	2.0 ft	2.0 ft	2.0 ft	2.0 ft	2.0 ft	2.0 ft	2.0 ft	2.0 ft	2.0 ft
Freeboard (from Sediment Depth)	2.0 ft	2.0 ft	2.0 ft	2.0 ft	2.0 ft	1.0 ft	1.0 ft	1.0 ft	1.0 ft	1.0 ft	1.0 ft
Depth to Crest of Spillway	5.5 ft	3.5 ft	2.0 ft	2.0 ft	2.0 ft	2.0 ft	2.0 ft	2.0 ft	2.0 ft	2.0 ft	2.0 ft
Side Slopes1	3.0H:1V	3.0H:1V	2.0H:1V	2.0H:1V	2.0H:1V	2.0H:1V	2.0H:1V	2.0H:1V	2.0H:1V	2.0H:1V	2.0H:1V
Spillway Length	16 ft	16 ft	12 ft	28 ft	15 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft
Height of Berm	7.5 ft	5.5 ft	4 ft	4 ft	4 ft	3 ft	3 ft	3 ft	3 ft	3 ft	3 ft
Top of Trap Length	N/A	N/A	96	146 ft	116 ft	22 ft	22 ft	18 ft	24 ft	30 ft	26 ft
Top of Trap Width	N/A	N/A	56	76 ft	56 ft	17 ft	17 ft	15 ft	18 ft	21 ft	18 ft
Storage Volume Required	27450 cf	32274 cf	6346 cf	15845 cf	8249 cf	175 cf	187 cf	140 cf	306 cf	486 cf	324 cf
Storage Volume Prov'd.	128370 cf	90040 cf	7400 cf	17160 cf	9150 cf	260 cf	260 cf	150 cf	330 cf	580 cf	370 cf
Sediment Surface Area Req'd	21470 sf	25240 sf	3710 sf	9260 sf	4820 sf	130 sf	140 sf	110 sf	230 sf	370 sf	250 sf
Sediment Surface Area Prov'd	28890 sf	29400 sf	4220 sf	9380 sf	5180 sf	230 sf	230 sf	150 sf	280 sf	440 sf	310 sf
Drainage Area (AC.)	15.25 ac	17.93 ac	3.53 ac	8.80 ac	4.58 ac	0.10 ac	0.10 ac	0.08 ac	0.17 ac	0.27 ac	0.18 ac
Disturbed Area (AC.)	15.25 ac	17.93 ac	3.53 ac	8.80 ac	4.58 ac	0.10 ac	0.10 ac	0.08 ac	0.17 ac	0.27 ac	0.18 ac

2

Trap ID	Drawdown	Skimmer Type(s)
SB-K	4 DAYS	1 – 3 inch Skimmers with a 2.5 inch orifice
SB-L	3 DAYS	1 – 4 inch Skimmers with a 2.9 inch orifice
ST-1	3 DAYS	1 – 2 inch Skimmers with a 1.5 inch orifice
ST-2	3 DAYS	1 – 2.5 inch Skimmers with a 2.3 inch orifice
ST-3	3 DAYS	1 – 2 inch Skimmers with a 1.8 inch orifice

Notes:
1. Side slopes pertain only for the vertical height from the base to the top of berm, 2H:1V above that.
2. See details regarding skimmer design specifications
3. See details on silt fence baffle spacing.

SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE CARRIED OUT IMMEDIATELY BEHIND CONSTRUCTION IN ACCORDANCE WITH FOLLOWING SPECIFICATIONS.

SEEDING SPECIFICATIONS			
SHOULDER, SIDE DITCHES, SLOPES (MAX 3:1)			
SEEDING PERIOD	TYPE	APPLICATION RATE	
		PER ACRE	PER 1000 SF
AUGUST 15 - NOVEMBER 1	TALL FESCUE	300#	7#
NOVEMBER 1 - MARCH 1	TALL FESCUE AND	300#	7#
	ABRUZZI RYE	25#	0.6#
MARCH 1 - APRIL 15	TALL FESCUE	300#	7#
APRIL 15 - JUNE 30	HULLED COMMON BERMUDAGRASS	25#	0.6#
JULY 1 - AUGUST 15	TALL FESCUE AND	120#	2.8#
	*BROWNTOP MILLET	35#	0.8#
	*OR SORHGUM-SUDAN HYBRIDS	30#	0.7#

SEEDING SPECIFICATIONS			
SLOPES (3:1 TO 2:1)			
SEEDING PERIOD	TYPE	APPLICATION RATE	
		PER ACRE	PER 1000 SF
MARCH 1 - JUNE 1	SERICEA LESPEDEZA (SCARIFIED)	50#	1.2#
	AND		
MARCH 1 - APRIL 15	ADD TALL FESCUE	120#	2.8#
MARCH 1 - JUNE 30	OR ADD WEEPING LOVE GRASS	10#	0.2#
MARCH 1 - JUNE 30	OR ADD HULLED COMMON BERMUDAGRASS	25#	0.6#
JUNE 1 - SEPTEMBER 1	*TALL FESCUE AND	120#	2.8#
	*OR BROWNTOP MILLET	35#	0.8#
	*OR SORGHUM-SUDAN HYBRIDS	30#	0.7#
SEPTEMBER 1 - MARCH 1	SERICEA LESPEDEZA (UNHULLED, UNSCARIFIED)	70#	1.6#
	AND TALL FESCUE	120#	2.8#
NOVEMBER 1 - MARCH 1	ADD ABRUZZI RYE	25#	0.6#

*TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW TO MORE THAN 12 INCHES HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

CONSULT WAKE SOIL AND WATER CONSERVATION DISTRICT OR NORTH CAROLINA DIVISION OF SOIL AND WATER CONSERVATION FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE THAT DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

SEEDBED PREPARATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS,IF AVAILABLE.
2. RIP THE ENTIRE AREA TO 6-INCH DEPTH.
3. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLE SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW).
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLE UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
6. SEED ON A 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 PERCENT DAMAGED, RE-ESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. CONSULT WAKE SOIL AND WATER CONSERVATION DISTRICT ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

* APPLY:
- AGRICULTURAL LIMESTONE - 2 TONS/ACRE (3/TONS/ACRES IN CLAY SOILS)
- FERTILIZER - 1000 LB/ACRE -10-10-10
- SUPERPHOSPHATE - 500 LB/ACRE - 20 PERCENT ANALYSIS
- MULCH - 2 TONS/ACRE - SMALL GRAIN STRAW
- ANCHOR - ASPHALT EMULSION @ 300 GALS/ACRE

DISTURBED AREA = 34.42 AC.

ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST VERSION OF THE TOWN OF ROLESVILLE AND WAKE COUNTY SPECIFICATIONS AND DETAILS.

811 Know what's below. Call before you dig.

CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:39:20-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-02-EC4
CHECKED BY	.
DRAWN BY	.
SCALE	N.T.S.
DATE	04. 26. 2024

SHEET

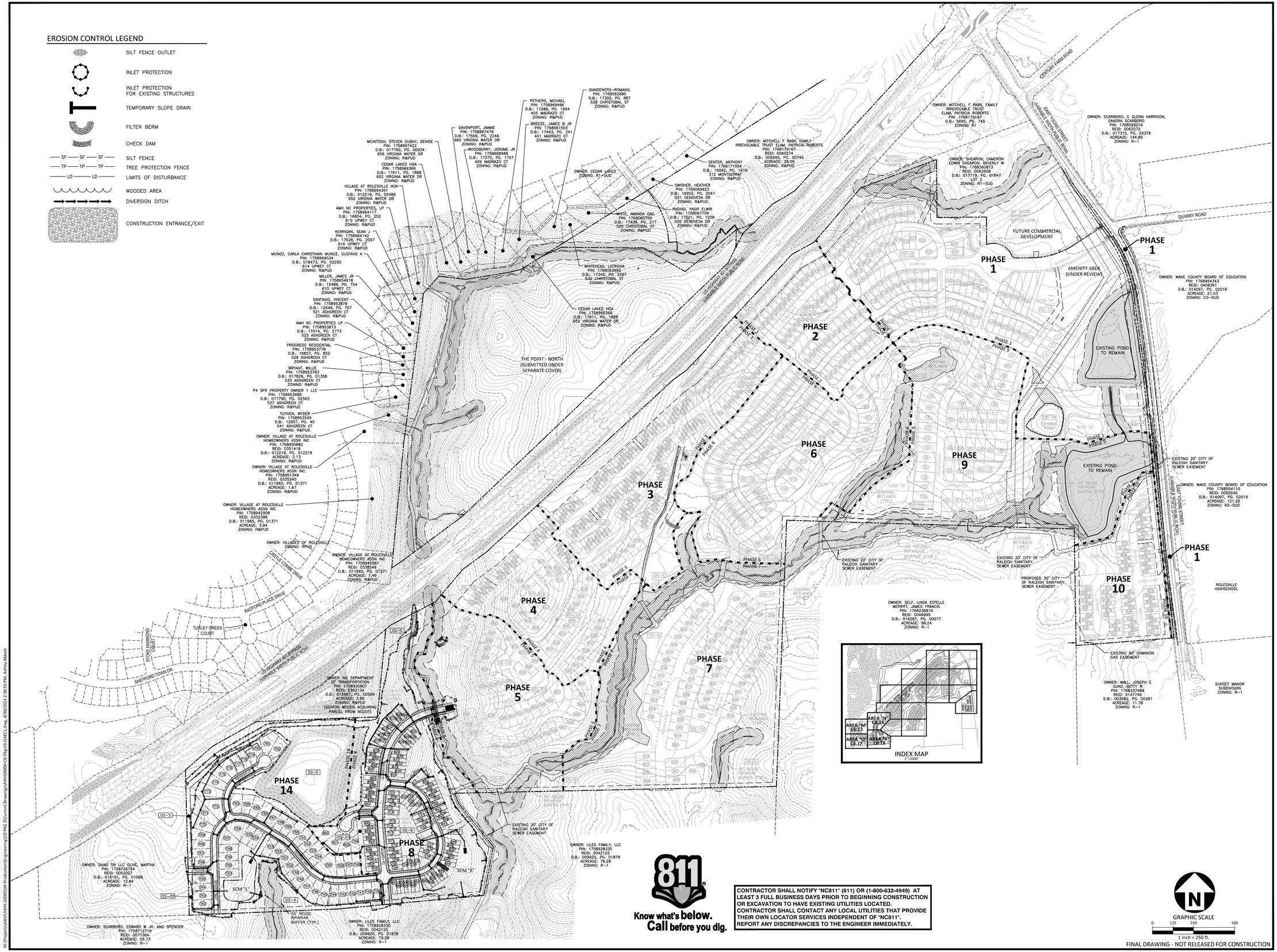
EROSION CONTROL NOTES

C6.00

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawing\AWH20000-CD-Pkg-03-EC4.dwg, 4/30/2024 1:12:15 PM, Ashley Abbott

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
- TP — TP — TP — TREE PROTECTION FENCE
- LD — LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT



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WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:39:22-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-OAEC1
CHECKED BY	.
DRAWN BY	.
SCALE	1"=250'
DATE	12. 13. 2023

SHEET

OVERALL EROSION CONTROL PLAN

C6.01

Know what's below. Call before you dig.

CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

GRAPHIC SCALE
0 125 250 500
1 inch = 250 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-PKG-03-OAEC1.dwg, 4/30/2024 2:39:55 PM, Ashley Abbott

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
- TP — TP — TP — TREE PROTECTION FENCE
- LD — LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

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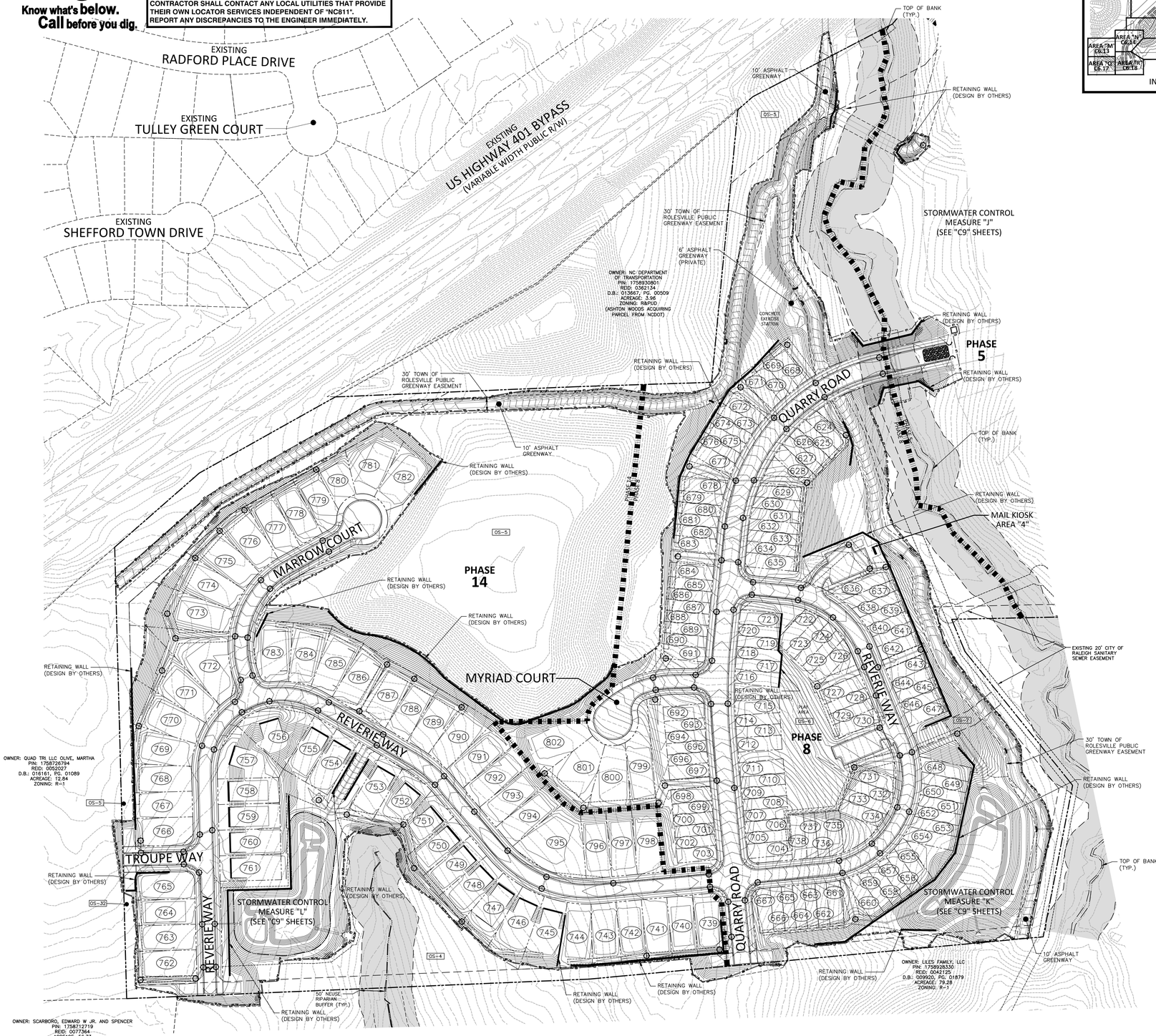

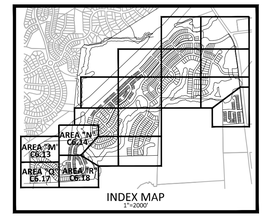

GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:39:24-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

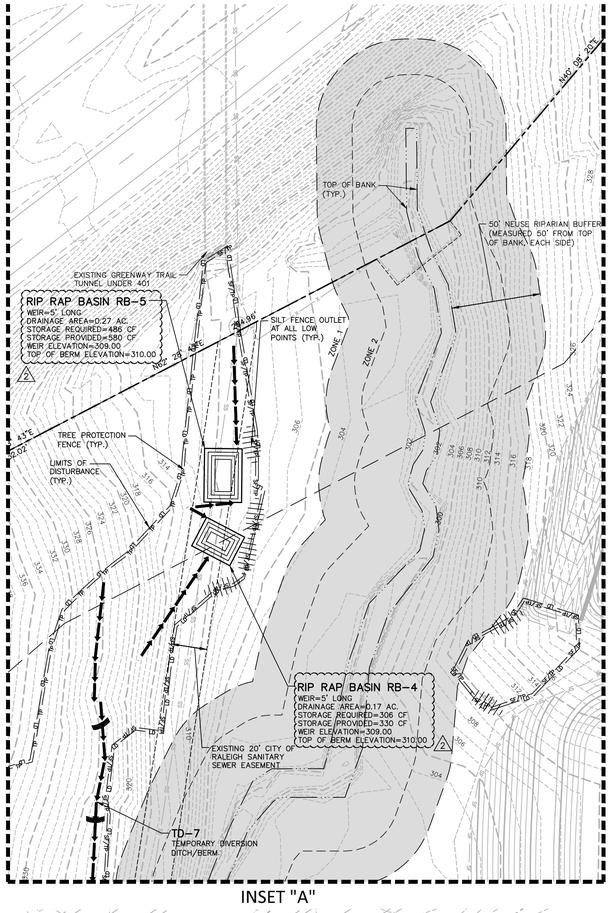
PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-OAEC2
CHECKED BY	.
DRAWN BY	.
SCALE	1"=100'
DATE	12. 13. 2023

SHEET

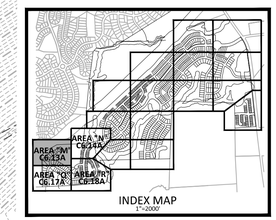
CD PACKAGE 3 OVERALL EROSION CONTROL PLAN

C6.02

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-PKG-03-OAEC2.dwg, 4/30/2024 2:23:24 PM, Ashley Abbott



INSET "A"



INDEX MAP
1"=2000'

EXISTING LOUISBURG ROAD (HWY 401) (VARIABLE WIDTH PUBLIC R/W)

OWNER: NC DEPARTMENT OF TRANSPORTATION
PIN: 1758930801
REID: 0362134
D.B.: 013667, PG. 00509
ACREAGE: 3.96
ZONING: R&PUD
(ASHTON WOODS ACQUIRING PARCEL FROM NCDOT)

LIMITS OF DISTURBANCE (TYP.)
TREE PROTECTION FENCE (TYP.)
N87° 33' 48"E 469.05'
N60° 44' 26"E 304.37'
EXISTING RIGHT-OF-WAY
N48° 45' 51"E 219.22'
SILT FENCE OUTLET AT ALL LOW POINTS (TYP.)
12' EMERGENCY SPILLWAY
SILT FENCE (TYP.)
TD-6
TEMPORARY DIVERSION DITCH/BERM
TEMPORARY CHECK DAM (TYP.)
MAINTENANCE PAD
NOTE: WHEN CLEANING OUT BASIN, PLACE SILT BAG HERE FOR DISCHARGING SEDIMENT LADEN WATER.
6" HDPE TEMPORARY SLOPE DRAIN (TSD-6)
COIR BAFFLES (TYP.)
ST-1
(SEE SUMMARY TABLE)
SKIMMER DEVICE, SEE SUMMARY TABLE
LIMITS OF DISTURBANCE (TYP.)
SILT FENCE (TYP.)
EXISTING RIGHT-OF-WAY
S48° 45' 51"W 219.22'
N60° 44' 26"E 304.37'
LIMITS OF DISTURBANCE (TYP.)
TREE PROTECTION FENCE (TYP.)
LIMITS OF DISTURBANCE (TYP.)
TREE PROTECTION FENCE (TYP.)
SEE SHEET C6.14A

OWNER: QUAD TRI LLC OLIVE, MARTHA
PIN: 1758726794
REID: 0052027
D.B.: 016161, PG. 01089
ACREAGE: 12.84
ZONING: R-10

SEE SHEET C6.17A

EROSION CONTROL LEGEND

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GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T. O'Daniel
Date: 2024.05.01 14:39:26-04'00'

REVISIONS

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PLAN INFORMATION

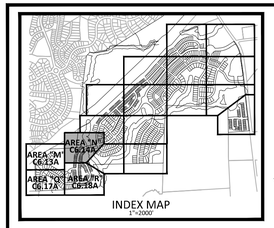
PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-E2
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 13. 2023

SHEET

EROSION CONTROL PLAN
STAGE 1
AREA "M"

C6.13A

M:\Projects\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-Pkg-03-EC1.dwg, 4/30/2024 2:13:54 PM, Ashley Abbott



INDEX MAP
1"=2000'

EROSION CONTROL LEGEND

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SEE INSET "A" - SHEET C6.13A

EXISTING LOUISBURG ROAD (HWY 401) (VARIABLE WIDTH PUBLIC R/W)

EXISTING RIGHT-OF-WAY

N09° 20' 43"E 535.11'

EXISTING 20' CITY OF RALEIGH SANITARY SEWER EASEMENT

SILT FENCE (TYP.)

TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

TOP OF BANK (TYP.)

PUMP AROUND NOTE:
CULVERT INSTALLATION OPERATIONS SHALL BE CONDUCTED DURING RELATIVELY DRY PERIODS WHEN HEAVY RAINFALLS ARE NOT EXPECTED DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL PROVIDE AT LEAST A 3" PUMP THAT WILL CONVEY AT LEAST 350.0 GPM, WHICH IS THE APPROXIMATE BASE FLOW OF THE STREAM. THE PUMP SHALL ALSO BE CAPABLE OF CONVEYING THE REQUIRED FLOW WITH 5-FEET STATIC HEAD. CONTRACTOR SHALL SUBMIT PUMP SPECIFICATIONS TO THE ENGINEER FOR APPROVAL.

STORMWATER CONTROL MEASURE "J" UNDER CONSTRUCTION

SOLACE WAY (50' PUBLIC R/W)

AQUA BARRIER COFFER DAM OR APPROVED EQUIVALENT

PUMP TO DIVERT STREAM FLOW REQUIRED TO INSTALL PERMANENT STREAM CROSSING

RIP RAP BASIN RB-6
WEIR=5' LONG
DRAINAGE AREA=0.18 AC.
STORAGE REQUIRED=324 CF
STORAGE PROVIDED=370 CF
WEIR ELEVATION=303.00
TOP OF BERM ELEVATION=304.00

TEMPORARY CONCRETE WASHOUT

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

CD PACKAGE 2 CURRENTLY UNDER CONSTRUCTION

SILT FENCE OUTLET AT ALL LOW POINTS (TYP.)

TD-7
TEMPORARY DIVERSION DITCH/BERM

40' STORM DRAINAGE EASEMENT

RIP RAP BASIN RB-1
WEIR=5' LONG
DRAINAGE AREA=0.10 AC.
STORAGE REQUIRED=175 CF
STORAGE PROVIDED=260 CF
WEIR ELEVATION=301.00
TOP OF BERM ELEVATION=302.00

TEMPORARY CHECK DAM (TYP.)

PROVIDE SINGLE-SPAN TIMBER MAT. SEE DETAIL ON SHEET C6.06

SSMH - RIM ELV: 307.24'
10" PVC INV. IN: 300.67' (N)
10" PVC INV. OUT: 300.58' (S)

TEMPORARY 12" CMP PIPE

RIP RAP BASIN RB-2
WEIR=5' LONG
DRAINAGE AREA=0.10 AC.
STORAGE REQUIRED=187 CF
STORAGE PROVIDED=260 CF
WEIR ELEVATION=301.00
TOP OF BERM ELEVATION=302.00

RIP RAP BASIN RB-3
WEIR=5' LONG
DRAINAGE AREA=0.08 AC.
STORAGE REQUIRED=140 CF
STORAGE PROVIDED=150 CF
WEIR ELEVATION=301.00
TOP OF BERM ELEVATION=302.00

QUARRY ROAD (60' PUBLIC R/W)

CHARM COURT (50' PUBLIC R/W)

PUMP AROUND WORK AREA THROUGH FILTER BAG

AQUA BARRIER COFFER DAM OR APPROVED EQUIVALENT

40' STORM DRAINAGE EASEMENT

OWNER: NC DEPARTMENT OF TRANSPORTATION
PIN: 1758930801
REID: 0362134
D.B.: 013667, PG: 00509
ACREAGE: 3.98
ZONING: R&PUD
(ASHTON WOODS ACQUIRING PARCEL FROM NCDOT)

N88° 08' 47"E 266.04'

TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

TD-1
TEMPORARY DIVERSION DITCH/BERM

TEMPORARY CHECK DAM (TYP.)

SILT FENCE (TYP.)

TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

15" HDPE TEMPORARY SLOPE DRAIN (TSD-7)

SKIMMER DEVICE SEE SUMMARY TABLE

TD-1
TEMPORARY DIVERSION DITCH/BERM

COIR BAFFLES (TYP.)

ST-2
(SEE SUMMARY TABLE)

TEMPORARY SLOPE DRAIN (TSD-8)

MAINTENANCE PAD NOTE: WHEN CLEANING OUT BASIN, PLACE SILT BAG HERE FOR DISCHARGING SEDIMENT LADEN WATER.

TD-8
TEMPORARY DIVERSION DITCH/BERM

28' EMERGENCY SPILLWAY

SILT FENCE OUTLET AT ALL LOW POINTS (TYP.)

EXISTING 20' CITY OF RALEIGH SANITARY SEWER EASEMENT

SSMH - RIM ELV: 300.40'
10" PVC INV. IN: 294.95' (N)
10" PVC INV. OUT: 294.88' (S)

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

TOP OF BANK (TYP.)

6" HDPE TEMPORARY CHECK DAM (TYP.)

EXISTING 20' CITY OF RALEIGH SANITARY SEWER EASEMENT

25' TYPE B LANDSCAPE BUFFER

SEE SHEET C6.13A

SEE SHEET C6.18A

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawing\AWH20000-CD-Pkg-03-EC1.dwg, 4/30/2024 2:14:16 PM, Ashley Abbott

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The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:39:27-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-E2
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 13. 2023

SHEET

EROSION CONTROL PLAN
STAGE 1
AREA "N"

C6.14A

SEE SHEET C6.13A

SEE SHEET C6.18A

OWNER: QUAD TRI LLC OLIVE, MARTHA
PIN: 1758726794
REID: 0052027
D.B.: 016161; PG. 01089
ACREAGE: 12.84
ZONING: R-1

EXISTING PROPERTY LINE

N01° 31' 06"W 682.19'

TD-3
TEMPORARY DIVERSION DITCH/BERM

MAINTENANCE PAD
NOTE: WHEN CLEANING OUT BASIN, PLACE SILT BAG HERE FOR DISCHARGING SEDIMENT LADEN WATER.

TD-4
TEMPORARY DIVERSION DITCH/BERM

8" HDPE TEMPORARY SLOPE DRAIN (TSD-3)

12" HDPE TEMPORARY SLOPE DRAIN (TSD-4)

COIR BAFFLES (TYP.)

15' EMERGENCY SPILLWAY

ST-3
(SEE SUMMARY TABLE)

SB-L
(SEE SUMMARY TABLE)

COIR BAFFLES (TYP.)

12" HDPE TEMPORARY SLOPE DRAIN (TSD-2)

TD-2
TEMPORARY DIVERSION DITCH/BERM

TREE PROTECTION FENCE (TYP.)

SILT FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

SKIMMER DEVICE ATTACHED TO RISER BARREL. SEE SUMMARY TABLE

ANY ORIFICES MUST BE TEMPORARILY PLUGGED UNTIL BASIN IS CONVERTED TO A PERMANENT SCM

TOP OF BANK (TYP.)

TEMPORARY CHECK DAM (TYP.)

SILT FENCE OUTLET AT ALL LOW POINTS (TYP.)

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

SILT FENCE (TYP.)

TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

8" HDPE TEMPORARY SLOPE DRAIN (TSD-5)

TD-5
TEMPORARY DIVERSION DITCH/BERM

TEMPORARY CHECK DAM (TYP.)

SILT FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

TREE PROTECTION FENCE (TYP.)

S87° 34' 15"W 804.51'

S87° 42' 18"W 98.94'

EXISTING PROPERTY LINE

OWNER: SCARBORO, EDWARD W JR. AND SPENCER
PIN: 1758712719
REID: 0077364
ACREAGE: 56.73
ZONING: R-1

TEMPORARY CONSTRUCTION EASEMENT

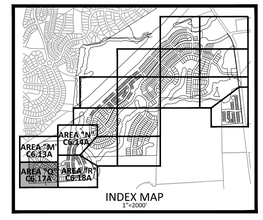
SILT FENCE OUTLET AT ALL LOW POINTS (TYP.)

MAINTENANCE PAD
NOTE: WHEN CLEANING OUT BASIN, PLACE SILT BAG HERE FOR DISCHARGING SEDIMENT LADEN WATER.

OWNER: LILES FAMILY, LLC
PIN: 1758928330
REID: 0042125
D.B.: 009920, PG. 01879
ACREAGE: 79.28
ZONING: R-1

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
- TP — TP — TP — TREE PROTECTION FENCE
- LD — LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT



INDEX MAP
1"=2000'

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
The John R. McAdams Company, Inc.
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Durham, NC 27713

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fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

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RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:39:29-04'00'

REVISIONS

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PLAN INFORMATION

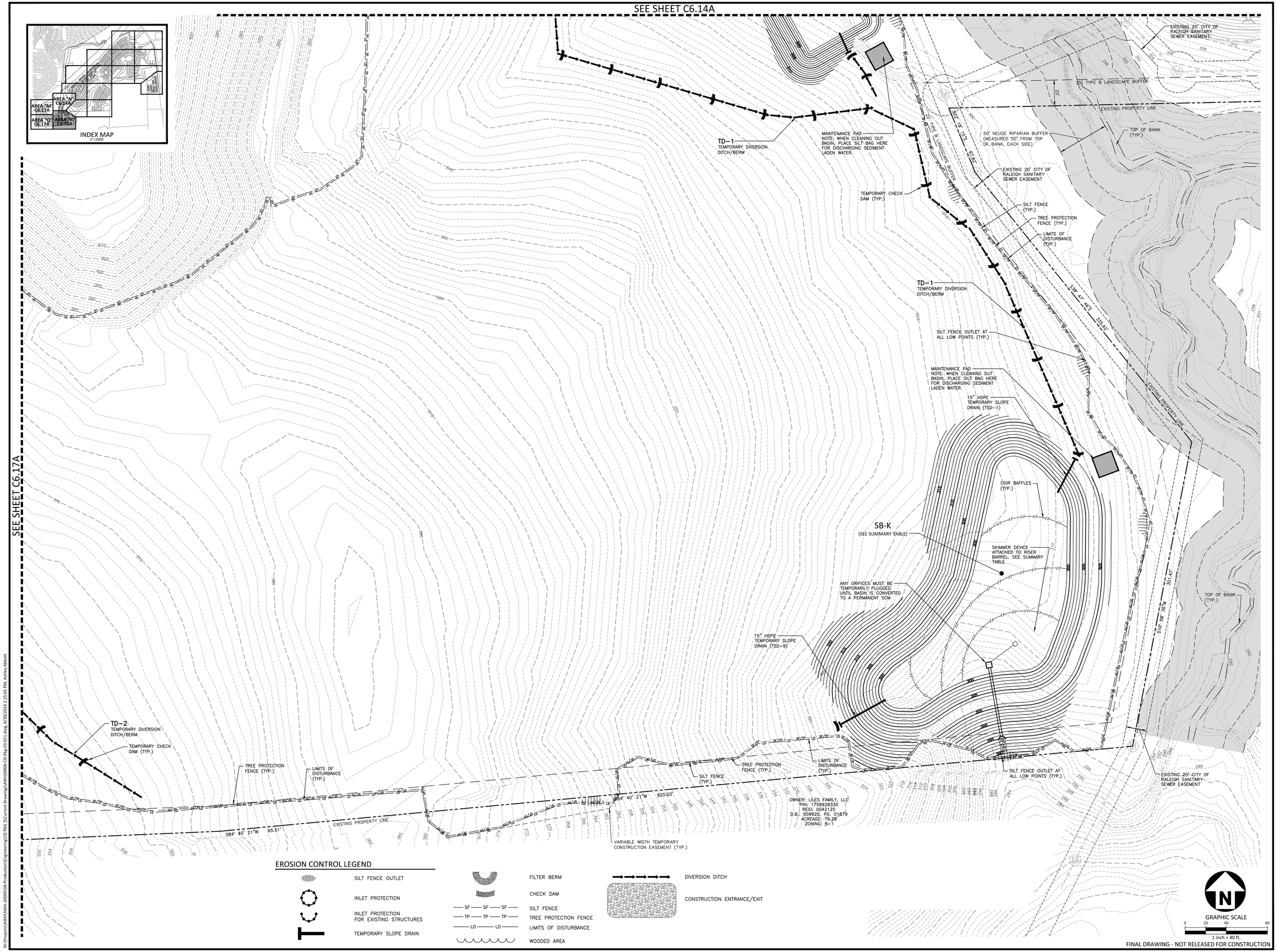
PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-E2
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 13. 2023

SHEET

EROSION CONTROL PLAN
STAGE 1
AREA "Q"

C6.17A

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD PKG-03-EC1.dwg, 4/30/2024 2:14:41 PM, Ashley Abbott



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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ASHTON WOODS

THE POINT PHASES 8 AND 14

CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:39:30-04'00'

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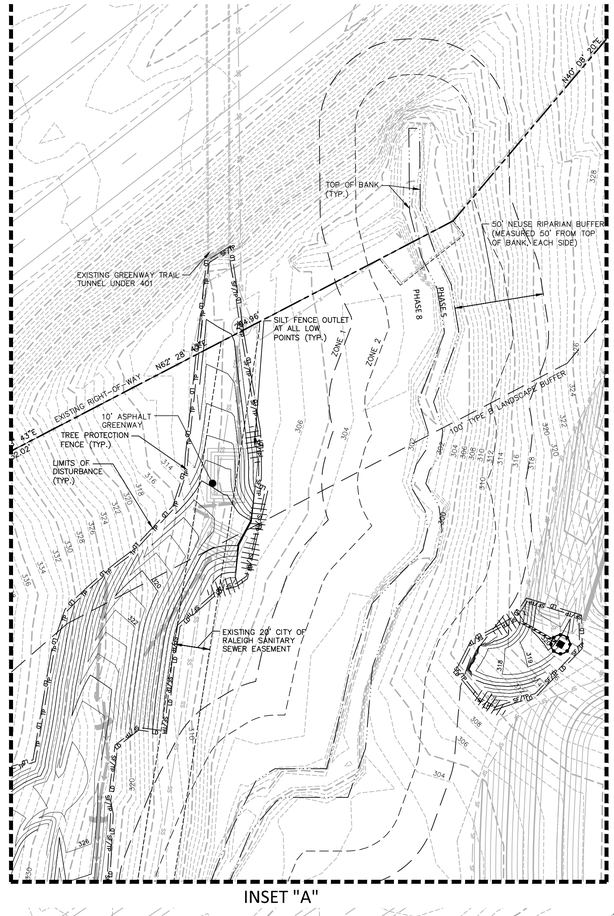
PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-E2
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 13. 2023

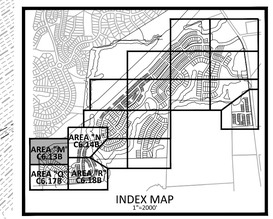
SHEET

EROSION CONTROL PLAN STAGE 1 AREA "R"

C6.18A



INSET "A"



INDEX MAP
1"=2000'

EXISTING LOUISBURG ROAD (HWY 401) (VARIABLE WIDTH PUBLIC R/W)

OWNER: NC DEPARTMENT OF TRANSPORTATION
PIN: 1758930801
REID: 0362134
D.B.: 013667, PG. 00509
ACREAGE: 3.96
ZONING: R&PUD
(ASHTON WOODS ACQUIRING PARCEL FROM NCDOT)

N87° 33' 48"E 469.05'

N60° 44' 26"E 304.37'

N48° 45' 51"E 219.22'

LIMITS OF DISTURBANCE (TYP.)
TREE PROTECTION FENCE (TYP.)
EXISTING RIGHT-OF-WAY
100' TYPE B LANDSCAPE BUFFER
SILT FENCE OUTLET AT ALL LOW POINTS (TYP.)
TEMPORARY PIPE INLET PROTECTION (TYP.)
SILT FENCE (TYP.)
TEMPORARY INLET PROTECTION (TYP.)
ST-1 (SEE SUMMARY TABLE)
DI-2043
DI-2042
DI-2041
DI-2040
CB-2034
CB-2033
CB-2032
CB-2031
DI-2039
DI-2036
CB-2035
CB-2030
DI-2037
DI-2038
CB-2028
DI-2029
CB-2027
CB-2023
CB-2022
CB-2021
DI-2018
DI-2019
DI-2017

OWNER: QUAD TRI LLC OLIVE, MARTHA
PIN: 1758726794
REID: 0052027
D.B.: 016161, PG. 01089
ACREAGE: 12.84
ZONING: R-10

SEE SHEET C6.14B

SEE SHEET C6.17B

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
- TP — TP — TP — TREE PROTECTION FENCE
- LD — LD — LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-Pkg-03-E2.dwg, 4/30/2024 2:22:59 PM, Ashley Abbott

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
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ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 16:55:11-04'00'

REVISIONS

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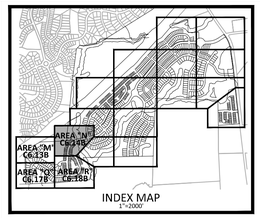
PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-E2
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 13. 2023

SHEET

EROSION CONTROL PLAN
STAGE 2
AREA "M"

C6.13B



INDEX MAP
1"=2000'

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
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- LD — LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

SEE INSET "A" - SHEET C6.13B

EXISTING LOUISBURG ROAD (HWY 401) (VARIABLE WIDTH PUBLIC R/W)

EXISTING RIGHT-OF-WAY

100' TYPE B LANDSCAPE BUFFER

EXISTING 20' CITY OF RALEIGH SANITARY SEWER EASEMENT

SILT FENCE (TYP.)

TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

TOP OF BANK (TYP.)

TEMPORARY PIPE INLET PROTECTION (TYP.)

STORMWATER CONTROL MEASURE "J" UNDER CONSTRUCTION

SOLACE WAY (50' PUBLIC R/W)

RIP RAP BASIN RB-6
WEIR=5' LONG
DRAINAGE AREA=0.18 AC.
STORAGE REQUIRED=324 CF
STORAGE PROVIDED=370 CF
WEIR ELEVATION=303.00
TOP OF BERM ELEVATION=304.00

TEMPORARY CONCRETE WASHOUT

CD PACKAGE 2 CURRENTLY UNDER CONSTRUCTION

40' STORM DRAINAGE EASEMENT

SILT FENCE OUTLET AT ALL LOW POINTS (TYP.)

CB-1101

CB-1104

QUARRY ROAD (60' PUBLIC R/W)

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

CB-1102

CB-1103

DI-1105

CHARM COURT (50' PUBLIC R/W)

RIP RAP BASIN RB-1
WEIR=5' LONG
DRAINAGE AREA=0.10 AC.
STORAGE REQUIRED=175 CF
STORAGE PROVIDED=260 CF
WEIR ELEVATION=299.00
TOP OF BERM ELEVATION=302.00

CB-1110

DI-1111

DI-1114

CB-1108

CB-1106

CB-1113

CB-1112

RIP RAP BASIN RB-2
WEIR=5' LONG
DRAINAGE AREA=0.10 AC.
STORAGE REQUIRED=187 CF
STORAGE PROVIDED=260 CF
WEIR ELEVATION=299.00
TOP OF BERM ELEVATION=302.00

RIP RAP BASIN RB-3
WEIR=5' LONG
DRAINAGE AREA=0.08 AC.
STORAGE REQUIRED=140 CF
STORAGE PROVIDED=150 CF
WEIR ELEVATION=299.00
TOP OF BERM ELEVATION=302.00

40' STORM DRAINAGE EASEMENT

SILT FENCE (TYP.)

TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

TEMPORARY PIPE INLET PROTECTION (TYP.)

SILT FENCE OUTLET AT ALL LOW POINTS (TYP.)

EXISTING 20' CITY OF RALEIGH SANITARY SEWER EASEMENT

TOP OF BANK (TYP.)

TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

DI-1833

CB-1832

CB-1834

DI-1835

CB-1830

CB-1831

TEMPORARY INLET PROTECTION (TYP.)

DI-1829

CB-1828

CB-1827

CB-1826

CB-1825

CB-1836

CB-1837

ST-2
(SEE SUMMARY TABLE)

CB-1822

CB-1823

DI-1824

CB-1621

CB-1820

INSTALL INLET AND STORM DRAIN AFTER ST-2 HAS BEEN REMOVED BY PERMISSION OF WAKE COUNTY.

CB-1819

EXISTING 20' CITY OF RALEIGH SANITARY SEWER EASEMENT

20' TYPE B LANDSCAPE BUFFER

OWNER: NC DEPARTMENT OF TRANSPORTATION
PIN: 1758930801
REID: 0362134
D.B.: 013667, PG: 00509
ACREAGE: 3.96
ZONING: R&PUD
(ASHTON WOODS ACQUIRING PARCEL FROM NCDOT)

N88° 08' 47"E 266.04'

N09° 30' 43"E 535.11'

SEE SHEET C6.13B

SEE SHEET C6.18B

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:39:33-04'00'

REVISIONS

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PLAN INFORMATION

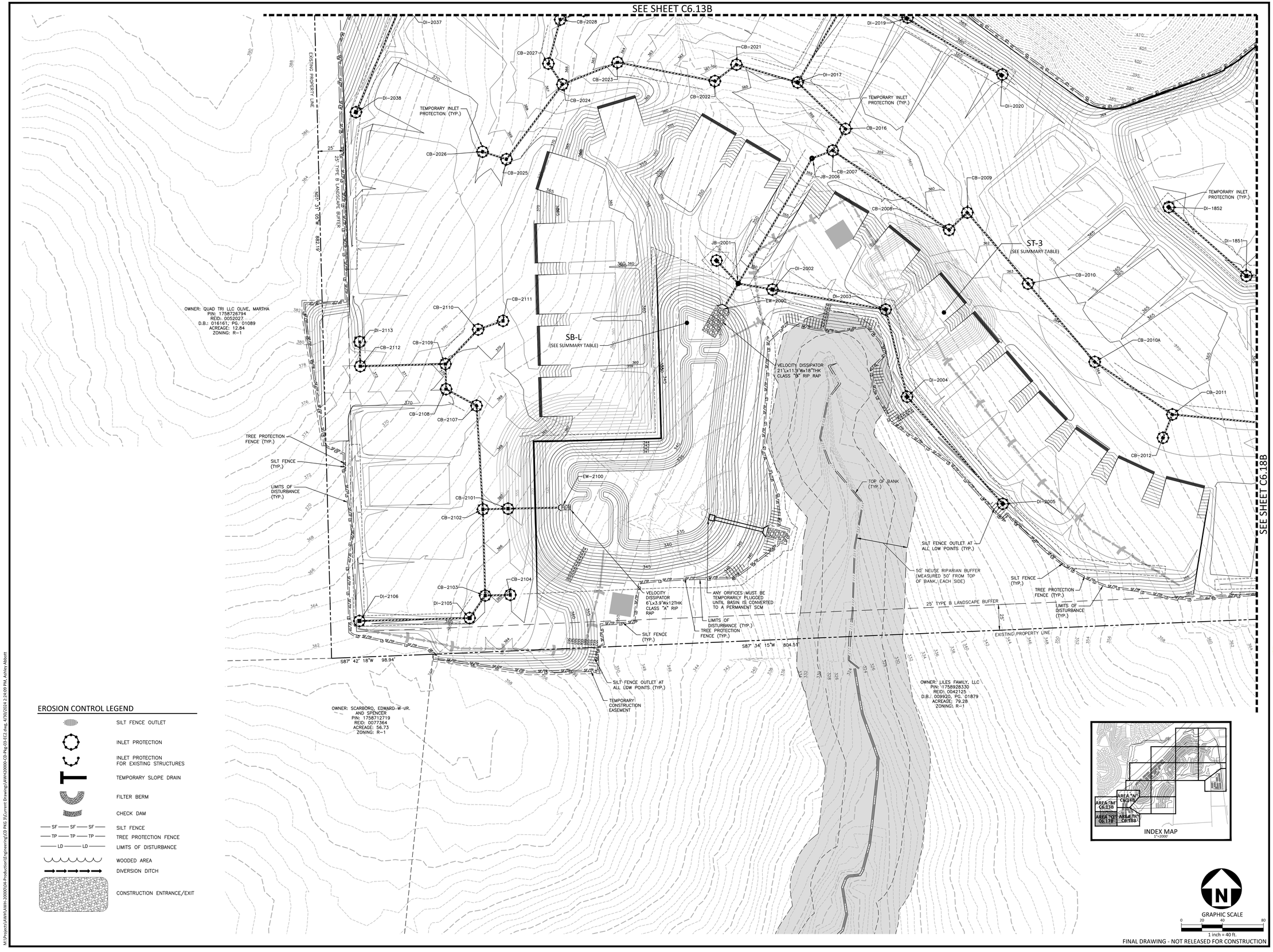
PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-E2
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 13. 2023

SHEET

EROSION CONTROL PLAN
STAGE 2
AREA "N"

C6.14B

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-PKG-03-EC2.dwg, 4/30/2024 2:23:30 PM, Ashley Abbott



EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
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PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

W.T. O'Daniel

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:39:35-04'00'

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FILENAME	AWH20000-CD-PKG-03-E2
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 13. 2023

SHEET

EROSION CONTROL PLAN
STAGE 2
AREA "Q"

C6.17B

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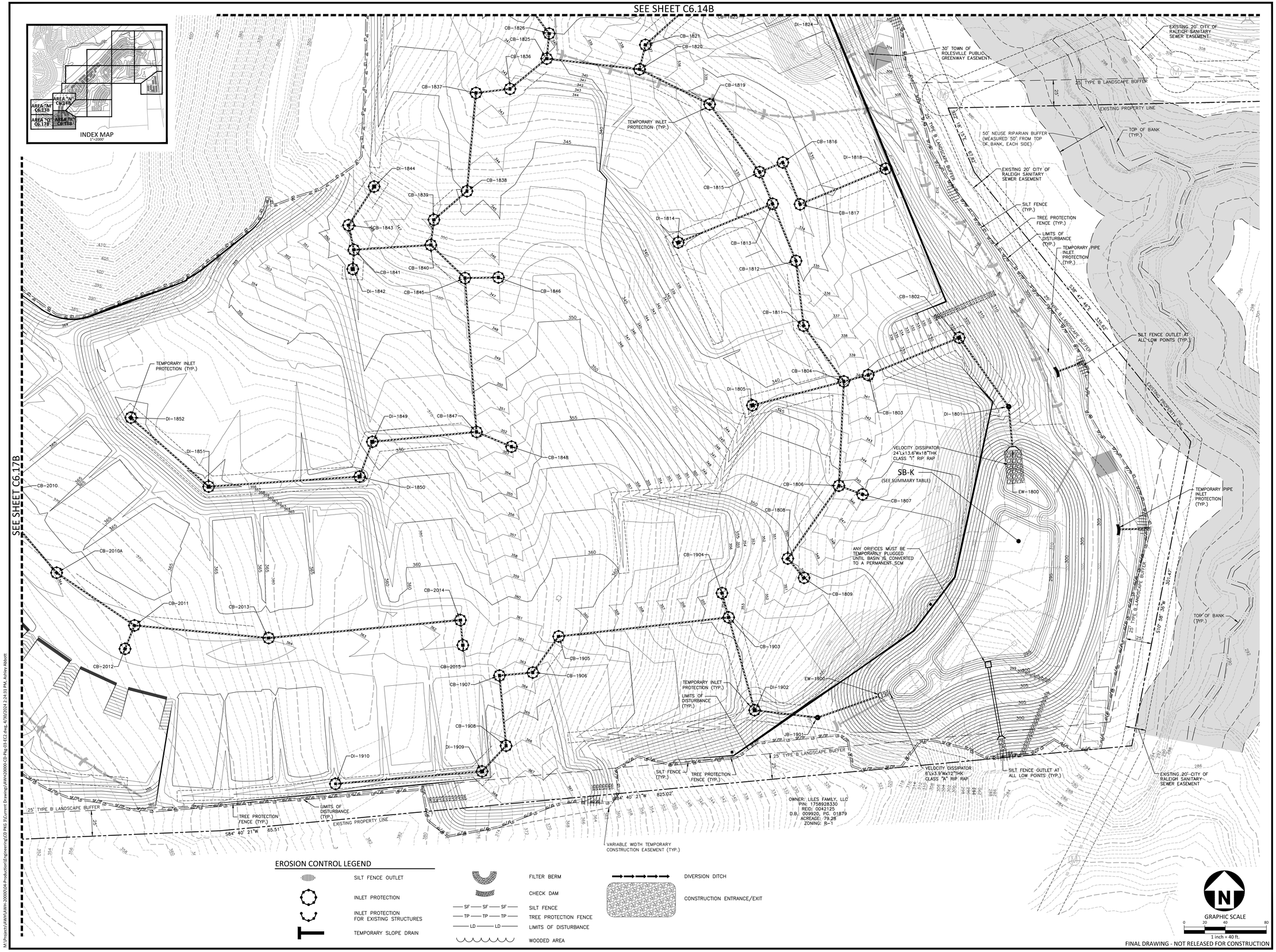

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
- TP — TP — TP — TREE PROTECTION FENCE
- LD — LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
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EROSION CONTROL PLAN STAGE 2 AREA "R"
C6.18B

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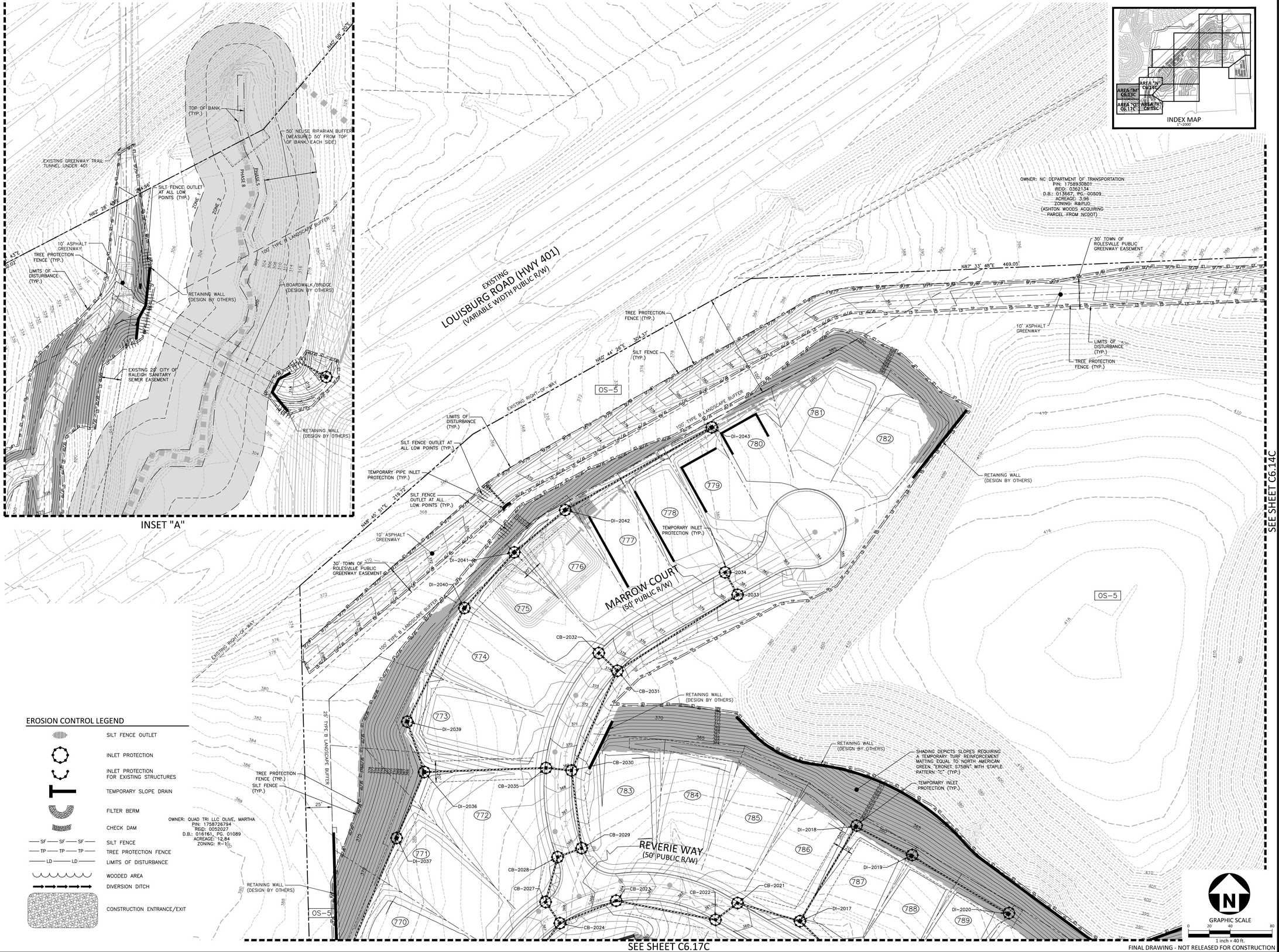

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EROSION CONTROL PLAN
STAGE 3
AREA "M"

C6.13C

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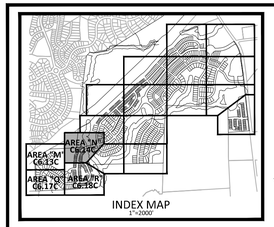

INDEX MAP
1"=2000'

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SEE INSET "A" - SHEET C6.13C

EXISTING LOUISBURG ROAD (HWY 401) (VARIABLE WIDTH PUBLIC R/W)

EXISTING RIGHT-OF-WAY

100' TYPE B LANDSCAPE BUFFER

10' ASPHALT GREENWAY

EXISTING 20' CITY OF RALEIGH SANITARY SEWER EASEMENT

8" SSMH

TREE PROTECTION FENCE (TYP.)

30' TOWN OF ROLESVILLE PUBLIC GREENWAY EASEMENT

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

TOP OF BANK (TYP.)

STORMWATER CONTROL MEASURE "I" (WET POND)

OS-18

SOLACE WAY (50' PUBLIC R/W)

OS-22

TEMPORARY PIPE INLET PROTECTION (TYP.)

STORMWATER CONTROL MEASURE ACCESS AND MAINTENANCE EASEMENT

40' STORM DRAINAGE EASEMENT

RETAINING WALL (DESIGN BY OTHERS)

EW-1100

TEMPORARY CONCRETE WASHOUT

SHADING DEPICTS SLOPES REQUIRING A TEMPORARY TURF REINFORCEMENT MATTING EQUAL TO NORTH AMERICAN GREEN "ERONET S75BN" WITH STAPLE PATTERN "C" (TYP.)

OS-5

CONCRETE EXERCISE STATION

PROPOSED 40' CITY OF RALEIGH SANITARY SEWER EASEMENT

CB-1104

CB-1101

CB-1107

QUARRY ROAD (60' PUBLIC R/W)

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

OS-23

DI-1111

CB-1102

CB-1103

RETAINING WALL (DESIGN BY OTHERS)

TEMPORARY INLET PROTECTION (TYP.)

CB-1110

CB-1106

DI-1105

CHARM COURT (50' PUBLIC R/W)

OS-8

DI-1116

CB-1108

RETAINING WALL (DESIGN BY OTHERS)

40' STORM DRAINAGE EASEMENT

10' ASPHALT GREENWAY

30' TOWN OF ROLESVILLE PUBLIC GREENWAY EASEMENT

VELOCITY DISSIPATOR 40'Lx20'Wx24"THK CLASS 'I' RIP RAP

CB-1113

CB-1112

PROPOSED 40' CITY OF RALEIGH SANITARY SEWER EASEMENT

PHASE 5

PHASE 8

DI-1109

RETAINING WALL (DESIGN BY OTHERS)

DI-1833

CB-1832

CB-1834

DI-1835

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

RETAINING WALL (DESIGN BY OTHERS)

TEMPORARY INLET PROTECTION (TYP.)

QUARRY ROAD (60' PUBLIC R/W)

PHASE 4

PHASE 8

OS-7

MAIL KIOSK AREA "4"

RETAINING WALL (DESIGN BY OTHERS)

TEMPORARY PIPE INLET PROTECTION (TYP.)

TOP OF BANK (TYP.)

STORMWATER CONTROL MEASURE ACCESS AND MAINTENANCE EASEMENT

SILT FENCE OUTLET AT ALL LOW POINTS (TYP.)

10' ASPHALT GREENWAY

STORMWATER CONTROL MEASURE "K" (WET POND)

OS-8

CB-1830

CB-1831

DI-1828

CB-1828

CB-1827

EXISTING 20' CITY OF RALEIGH SANITARY SEWER EASEMENT

PHASE 5

PHASE 8

REVERIE WAY (50' PUBLIC R/W)

CB-1822

OS-7

CB-1826

CB-1821

CB-1823

DI-1824

SILT FENCE (TYP.)

TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

EXISTING 20' CITY OF RALEIGH SANITARY SEWER EASEMENT

LIMITS OF DISTURBANCE (TYP.)

TREE PROTECTION FENCE (TYP.)

CB-1825

CB-1820

CB-1819

CB-1837

CB-1836

OS-5

OWNER: NC DEPARTMENT OF TRANSPORTATION
PIN: 1758930801
REID: 0362134
D.B.: 013667, PG: 00509
ACREAGE: 3.96
ZONING: R&PUD
(ASHTON WOODS ACQUIRING PARCEL FROM NCDOT)

30' TOWN OF ROLESVILLE PUBLIC GREENWAY EASEMENT

N88° 08' 47"E 266.04'

10' ASPHALT GREENWAY

LIMITS OF DISTURBANCE (TYP.)

TREE PROTECTION FENCE (TYP.)

N09° 30' 43"E 535.11'

SEE SHEET C6.13C

SEE SHEET C6.18C

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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EROSION CONTROL PLAN STAGE 3 AREA "N"

C6.14C

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SEE SHEET C6.13C

SEE SHEET C6.18C

MARROW COURT
(50' PUBLIC R/W)

REVERIE WAY
(50' PUBLIC R/W)

TROUPE WAY
(50' PUBLIC R/W)

REVERIE WAY
(50' PUBLIC R/W)

REVERIE WAY
(50' PUBLIC R/W)

EXISTING PROPERTY LINE

25' TYPE B LANDSCAPE BUFFER

TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

SILT FENCE (TYP.)

RETAINING WALL (DESIGN BY OTHERS)

TEMPORARY INLET PROTECTION (TYP.)

VARIABLE WIDTH TEMPORARY CONSTRUCTION EASEMENT (TYP.)

OWNER: QUAD TRI LLC OLIVE, MARTHA
PIN: 1758726794
REID: 0052027
D.B.: 016161; PG. 01089
ACREAGE: 12.84
ZONING: R-1

OWNER: SCARBORO, EDWARD W JR. AND SPENCER
PIN: 1758712719
REID: 0077364
ACREAGE: 56.73
ZONING: R-1

OWNER: LILES FAMILY, LLC
PIN: 1758928330
REID: 0042125
D.B.: 009920, PG. 01879
ACREAGE: 79.28
ZONING: R-1

STORMWATER CONTROL MEASURE "L"
(WET POND)

VELOCITY DISSIPATOR
6'Lx3.9'Wx12THK
CLASS "A" RIP RAP

VELOCITY DISSIPATOR
21'Lx11.9'Wx18"THK
CLASS "B" RIP RAP

SILT FENCE OUTLET AT ALL LOW POINTS (TYP.)

STORMWATER CONTROL MEASURE ACCESS AND MAINTENANCE EASEMENT

SHADING DEPICTS SLOPES REQUIRING A TEMPORARY TURF REINFORCEMENT MATTING EQUAL TO NORTH AMERICAN GREEN "ERONET S75BN" WITH STAPLE PATTERN "C" (TYP.)

TOP OF BANK (TYP.)

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

S87° 42' 18"W 98.94'

S87° 34' 15"W 804.51'

EROSION CONTROL LEGEND

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INDEX MAP
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GRAPHIC SCALE
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EROSION CONTROL PLAN STAGE 3 AREA "Q"

C6.17C

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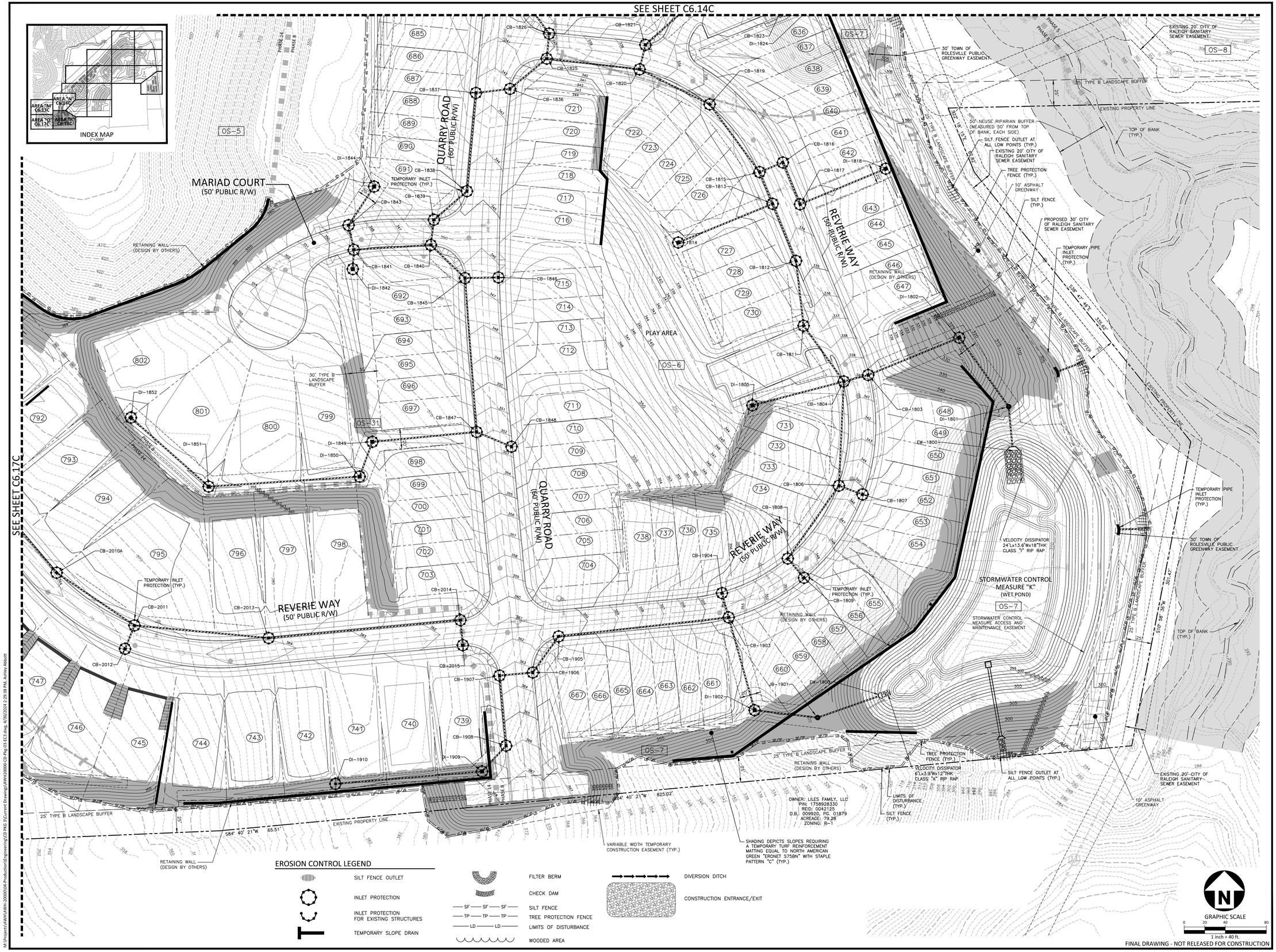

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EROSION CONTROL PLAN
STAGE 3
AREA "R"

C6.18C

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	**Stabilize within this many calendar days after ceasing land disturbance**	**Timeframe variations**
(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
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

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

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

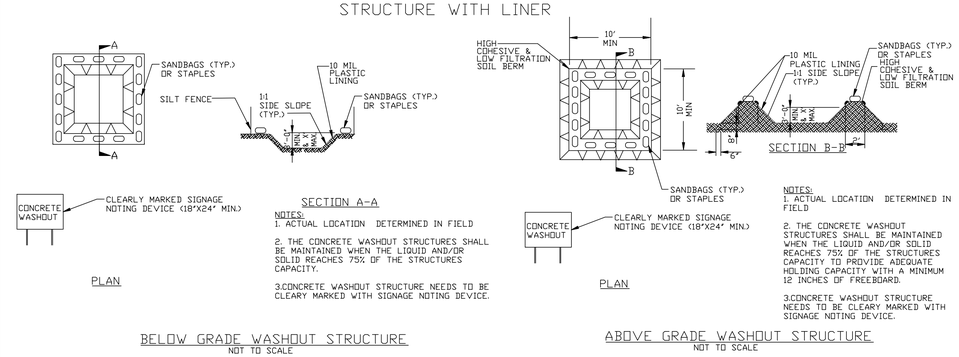
HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sediment load or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section G, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed. (e) Corrective actions have been taken to E&SC measures.	Complete, date and sign an inspection report. Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring. Inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above (c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release. • ***A report at least ten days before the date of the bypass, if possible***. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

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FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:39:46-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

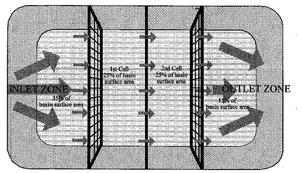
PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-02-EC4
CHECKED BY	.
DRAWN BY	.
SCALE	N.T.S.
DATE	04. 26. 2024

SHEET

EROSION CONTROL DETAILS

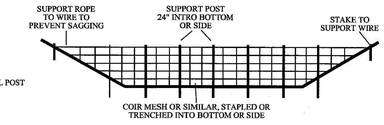
C6.04

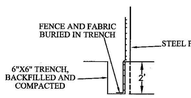


PLAN VIEW

NOTES:
1. BAFFLE MATERIAL SHOULD BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR SILT FENCE.
2. MOST OF THE SEDIMENT WILL ACCUMULATE IN THE 1ST BAY, WHICH SHOULD BE READILY ACCESSIBLE FOR MAINTENANCE.
3. PROVIDE 3 BAFFLES (USE TWO IF LESS THAN 20 FEET IN LENGTH), PROVIDE 5 BAFFLES FOR DRAINAGE AREAS GREATER THAN 10 ACRES.
4. BAFFLE SHALL BE 700 G/M2 COIR EROSION BLANKET.
5. TOPS OF BAFFLES SHOULD BE 2 INCHES LOWER THAN THE TOP OF THE BERMS
6. INSPECT BAFFLES FOR REPAIR ONCE A WEEK AND AFTER EACH RAINFALL

CROSS SECTION

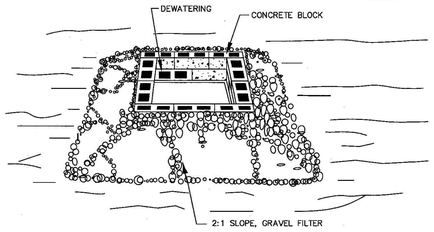




SECTION VIEW AT OPENING

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

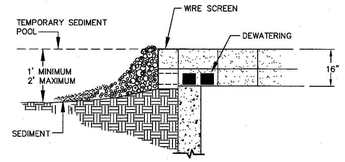
STANDARD BAFFLES DETAIL



CONSTRUCTION SPECIFICATIONS

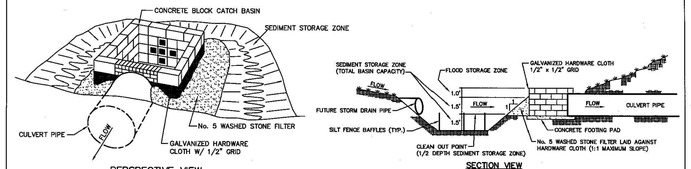
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF BLOCKS AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. IF NEEDED, GIVE LATERAL SUPPORT TO SUBSEQUENT ROWS BY PLACING 2x4 WOOD STUDS THROUGH BLOCK OPENINGS.
2. CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
3. USE CLEAN GRAVEL, 3/4 TO 1/2 INCH IN DIAMETER, PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH IT TO AN EVEN GRADE. DOT #57 WASHED STONE IS RECOMMENDED.

MAINTENANCE: INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.



WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

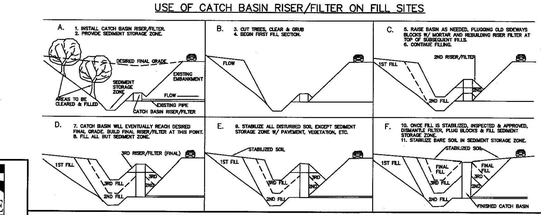
STANDARD BLOCK & GRAVEL DROP INLET PROTECTION



PERSPECTIVE VIEW

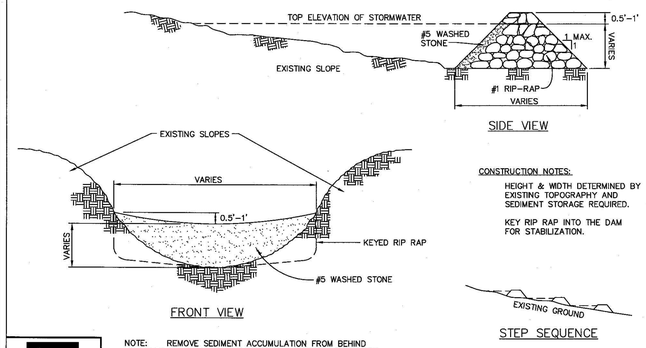
SECTION VIEW

USE OF CATCH BASIN RISER/FILTER ON FILL SITES



WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD CATCH BASIN RISER/FILTER



SIDE VIEW

CONSTRUCTION NOTES:

HEIGHT & WIDTH DETERMINED BY EXISTING TOPOGRAPHY AND SEDIMENT STORAGE REQUIRED.

KEY RIP RAP INTO THE DAM FOR STABILIZATION.

FRONT VIEW

STEP SEQUENCE

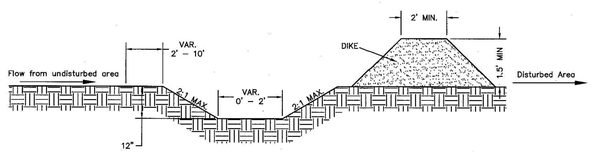
NOTE: REMOVE SEDIMENT ACCUMULATION FROM BEHIND CHECK DAMS TO PREVENT DAMAGE TO CHANNEL VEGETATION. FLOW SHOULD BE MAINTAINED THROUGH THE DAM.

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD CHECK DAM

NOTES:

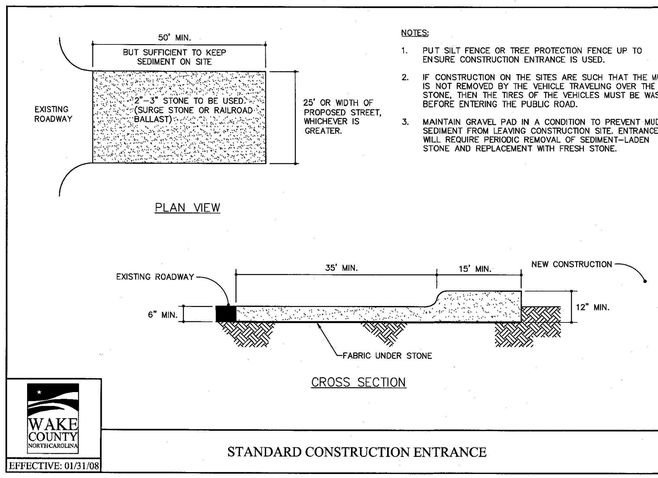
1. DIVERSION TO BE USED UPSLOPE OF A CONSTRUCTION SITE TO PREVENT STORM RUNOFF FROM ENTERING THE DISTURBED AREA.
2. IMMEDIATELY LINE AND STABILIZE BEFORE ANY DOWNSLOPE GRADING BEGINS (STABILIZATION MUST OCCUR BEFORE ISSUANCE OF A CERTIFICATE OF COMPLIANCE). STABILIZATION METHOD IS BASED ON VELOCITY OF OFFSITE DRAINAGE.
3. DIVERSIONS SHOULD ONLY BE USED FOR DRAINAGES 5 ACRES OR LESS.
4. ANY SEDIMENT LADEN WATER PRIOR TO STABILIZATION OF THE DIVERSION MUST BE DIVERTED INTO AN APPROVED EROSION AND SEDIMENT CONTROL BMP. CLEAN WATER SHOULD EMPTY INTO AN APPROVED OUTLET DEVICE.



CROSS SECTIONAL VIEW

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD CLEAN WATER DIVERSION



PLAN VIEW

NOTES:

1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
3. MAINTAIN GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING CONSTRUCTION SITE. ENTRANCE WILL REQUIRE PERIODIC REMOVAL OF SEDIMENT-LADEN STONE AND REPLACEMENT WITH FRESH STONE.

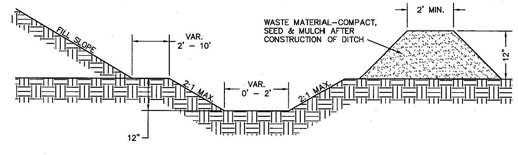
CROSS SECTION

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD CONSTRUCTION ENTRANCE

NOTES:

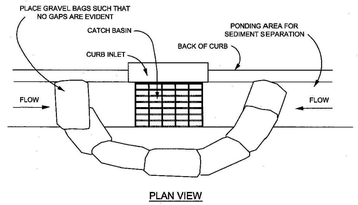
1. TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR BMP.
2. SILT SHALL BE REMOVED WHEN DITCH IS ONE-HALF FULL.
3. DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.
4. STABILIZE DIVERSION DITCH BERM WITH TEMPORARY SEEDING, MULCH WITH TAC, AND/OR EROSION CONTROL NETTING.



CROSS SECTIONAL VIEW

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

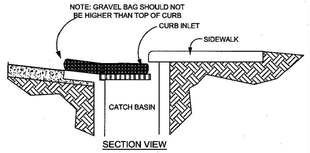
STANDARD TEMPORARY DIVERSION DITCH



PLAN VIEW

NOTES:

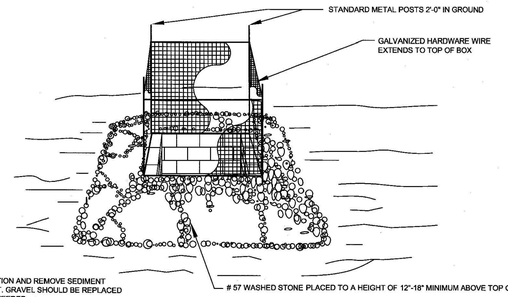
1. PLACE GRAVEL BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNNOFF.
2. USE SAND BAGS OF WOVEN GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH $\frac{2}{3}$ INCH (OR SMALLER) GRAVEL. BAGS MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.
4. WHEN INSTALLING CURB INLET PROTECTION DEVICES, **NEVER** BLOCK THE CURB INLET.



SECTION VIEW

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD GRAVEL BAG CURB INLET PROTECTION



NOTE:

1. INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD GRAVEL YARD INLET PROTECTION

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
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CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
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THE POINT
PHASES 8 AND 14
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EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T. O'Daniel
Date: 2024.05.01 14:39:48-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-02-EC4
CHECKED BY	.
DRAWN BY	.
SCALE	N.T.S.
DATE	04. 26. 2024

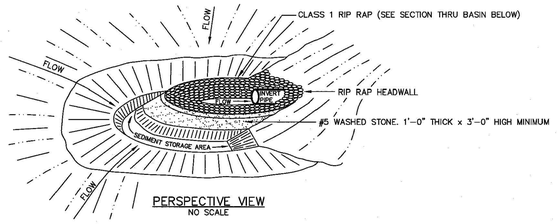
SHEET

EROSION CONTROL DETAILS

C6.05

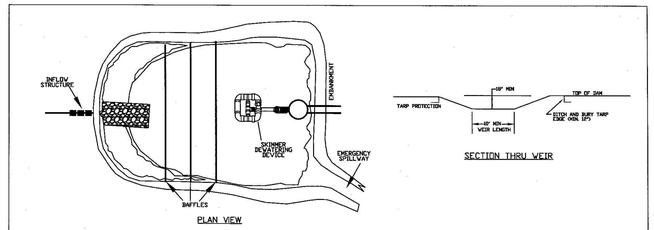
FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawing\AWH20000-CD-Pkg-03-EC4.dwg, 4/30/2024 11:48:17 AM, Ashley Abbott



STANDARD HORSESHOE INLET PROTECTION

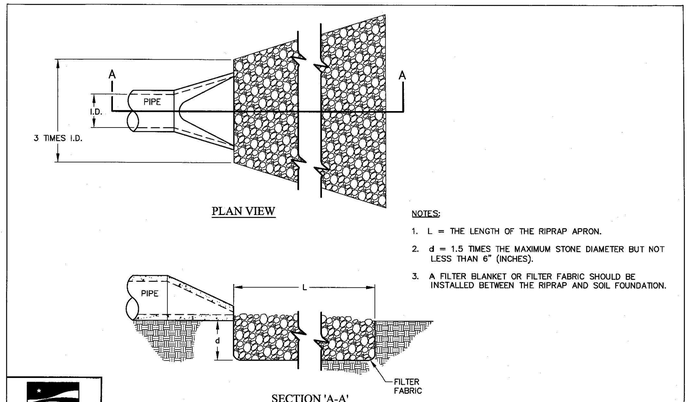
EFFECTIVE: 01/31/08



NOTES:
1) BASIN SHOULD BE CLEANED OUT WHEN CAPACITY REACHES AN ELEVATION REPRESENTING THAT THE BASIN IS HALF-FULL.
2) THE TARP USED TO PROTECT THE WEIR SHALL BE THE WIDTH SPECIFIED. THE LENGTH OF THE TARP SHALL BE ACCORDING TO AVAILABLE SUPPLY. IF MULTIPLE TARPS ARE TO BE USED, THEN TARPS SHALL BE OVERLAPPED AT LEAST 12". THE UPSTREAM 12" TARP SHALL OVERLAP THE DOWNSTREAM TARP. THE TARP SHALL BE 50 MIL. HEAVY DUTY SILVER TARPAULINS OR EQUIVALENT FOR U.V. RESISTANCE.
3) PROVIDE A MINIMUM OF THREE POROUS BAFFLES TO EVENLY DISTRIBUTE FLOW ACROSS THE BASIN, REDUCING TURBULENCE.
4) BAFFLE MATERIAL MUST BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR A SILT FENCE.
5) MOST OF THE SEDIMENT WILL ACCUMULATE IN THE FIRST BAY, SO THIS SHOULD BE READILY AVAILABLE FOR MAINTENANCE.
6) DURING THE CONSTRUCTION PHASE OF THE PROJECT, PERMANENT STORMWATER RISER SHALL ONLY DEWATER FROM THE TOP OF PIPE.
7) POND SHALL NOT BE CONVERTED FOR STORMWATER USE UNTIL APPROVED BY ENVIRONMENTAL ENGINEER.

STANDARD SKIMMER ATTACHED TO PERMANENT RISER

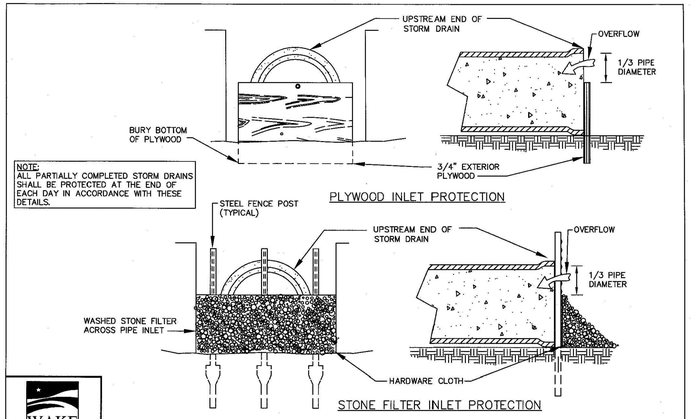
EFFECTIVE: 01/31/08



NOTES:
1. L = THE LENGTH OF THE RIPRAP APRON.
2. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" (INCHES).
3. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

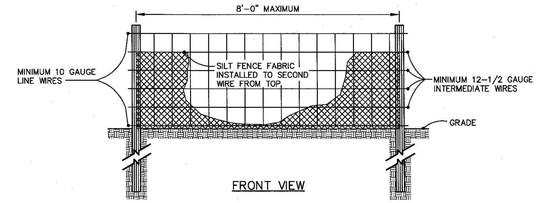
STANDARD PIPE OUTLET TO FLAT AREA
NO WELL-DEFINED CHANNEL

EFFECTIVE: 01/31/08



STANDARD PIPE INLET PROTECTION (PLYWOOD & STONE)

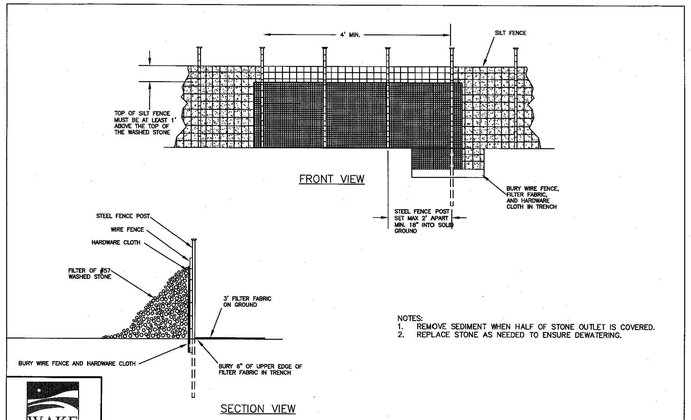
EFFECTIVE: 01/31/08



NOTE:
1. USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.
2. REMOVE SEDIMENT DEPOSITED AS NEEDED TO PROVIDE STORAGE VOLUME FOR THE NEXT RAIN AND TO REMOVE PRESSURE ON THE SILT FENCE.

STANDARD TEMPORARY SILT FENCE

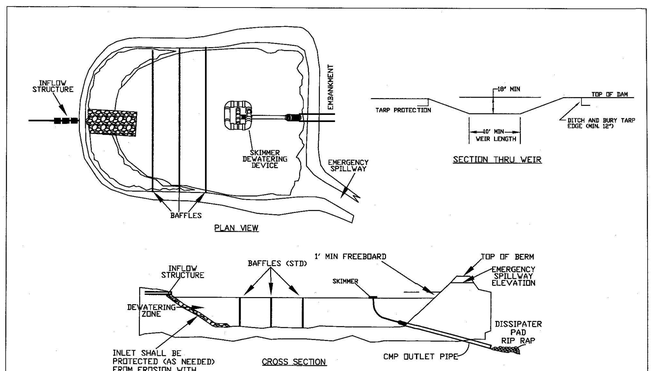
EFFECTIVE: 01/31/08



NOTES:
1. REMOVE SEDIMENT WHEN HALF OF STONE OUTLET IS COVERED.
2. REPLACE STONE AS NEEDED TO ENSURE DEWATERING.

STANDARD SILT FENCE OUTLET

EFFECTIVE: 01/31/08



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4) BAFFLE MATERIAL MUST BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR A SILT FENCE.
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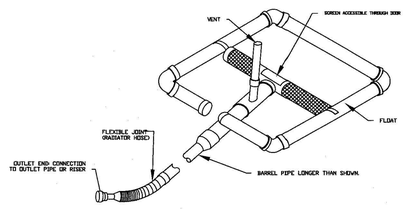
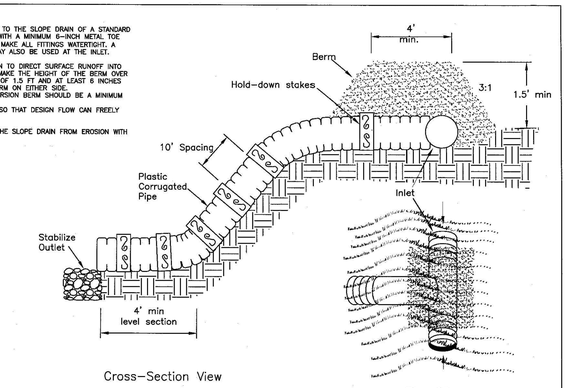
STANDARD SKIMMER BASIN

EFFECTIVE: 01/31/08



STANDARD SKIMMER DETAIL

EFFECTIVE: 01/31/08



STANDARD TEMPORARY SLOPE DRAIN

EFFECTIVE: 01/31/08

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T. O'Daniel
Date: 2024.05.01 14:39:50-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-02-EC4
CHECKED BY	.
DRAWN BY	.
SCALE	N.T.S.
DATE	04. 26. 2024

SHEET

EROSION CONTROL DETAILS

C6.06

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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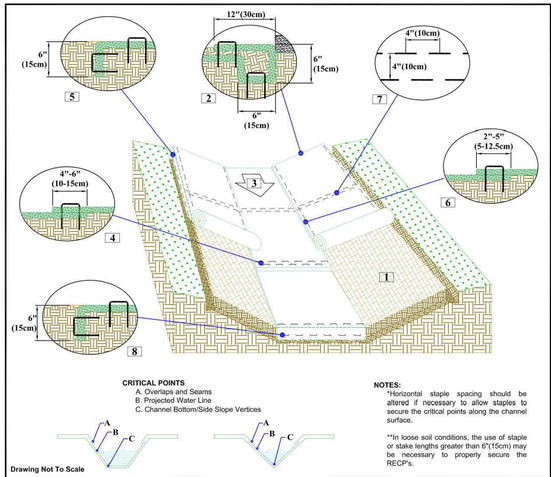
CHANNEL INSTALLATION DETAIL



1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the channel by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12"(30cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat at the channel/culvert outlet as supplemental scour protection as needed. Anchor the RECPs with a row of staples/stakes approximately 12"(30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" apart across the width of the RECPs.
3. Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
4. Place consecutive RECPs end-over-end (Shingle style) with a 4"-6" overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs.
5. Full length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes approximately 12"(30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.
6. Adjacent RECPs must be overlapped approximately 2"-5" (5-12.5cm) (Depending on RECPs type) and stapled.
7. In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9 -12m) intervals. Use a double row of staples staggered 4"(10cm) apart and 4"(10cm) on center over entire width of the channel.
8. The terminal end of the RECPs must be anchored with a row of staples/stakes approximately 12" (30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.

NOTES:
"Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.

**In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECP's.

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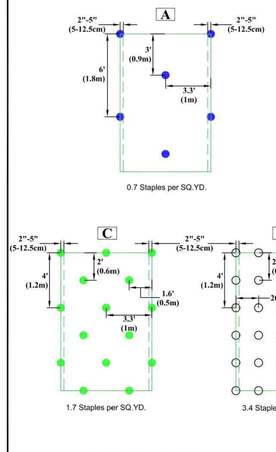
Poseyville, IN 47633 www.nagreen.com

Disclaimer:
The information presented herein is general design information only. For specific applications, consult an independent professional for further design guidance.

Drawn on: 5-4-17

STAPLE PATTERN GUIDE



- 4:1 Slopes (A)
- 3:1 Slopes (B)
- 2:1 Slopes (C)
- 1:1 & Steeper Slopes (D)
- Medium/High Flow Channel (D)
- High Flow Channel And Shoreline (E)

NOTES:
* Use ECMDS® for more accurate staple pattern selection.

Drawing Not To Scale

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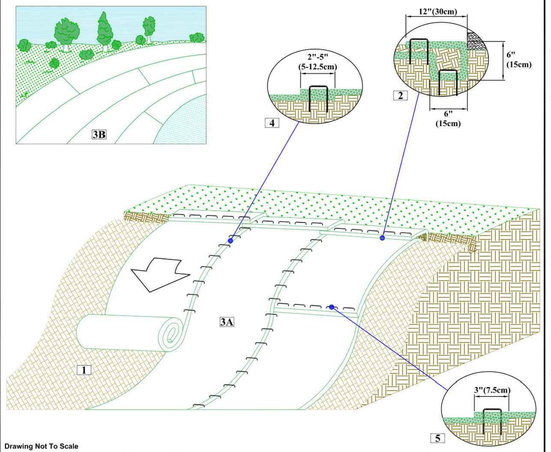
SLOPE INSTALLATION DETAIL



1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the slope by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12" (30cm) of RECPs extended beyond the up-slope portion of the trench. Anchor the RECPs with a row of staples/stakes approximately 12" (30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12"(30cm) apart across the width of the RECPs.
3. Roll the RECPs (A) down or (B) horizontally across the slope. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
4. The edges of parallel RECPs must be stapled with approximately 2" - 5" (5-12.5cm) overlap depending on the RECPs type.
5. Consecutive RECPs spliced down the slope must be end over end (Shingle style) with an approximate 3"(7.5cm) overlap. Staple through overlapped area, approximately 12"(30cm) apart across entire RECPs width.

*NOTE:
In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECP's.

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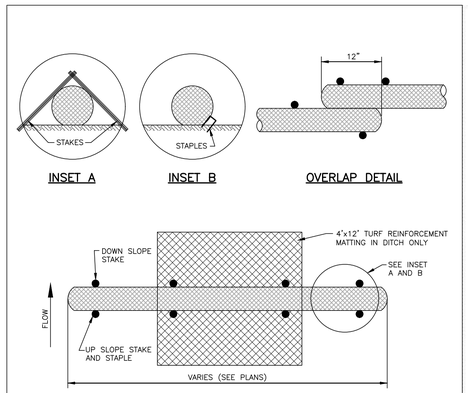
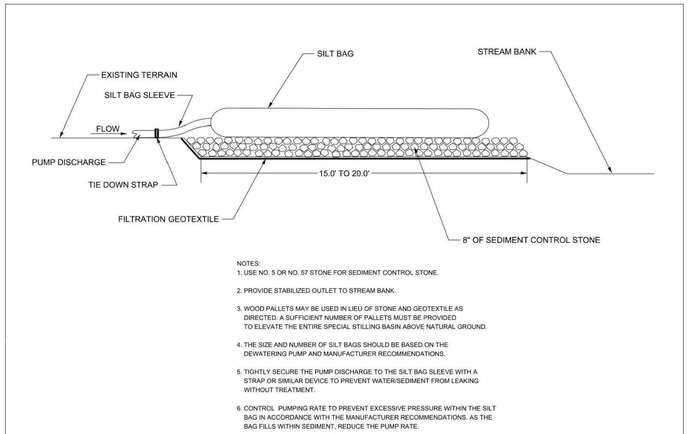


NOTES:
1. USE MINIMUM 12" DIAMETER WATTLE (LARGER WATTLES MAY BE REQUIRED TO KEEP SEDIMENT ON SITE).
2. USE 2" WOODEN STAKES WITH A 2" NOMINAL CROSS SECTION.
3. INSTALL A MINIMUM OF TWO UP SLOPE STAKES AND 4 DOWN SLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO EXISTING GRADE.
4. PROVIDE STAPLES OF 0.125" DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 6" IN LENGTH.
5. INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON THE UP SLOPE SIDE OF THE WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

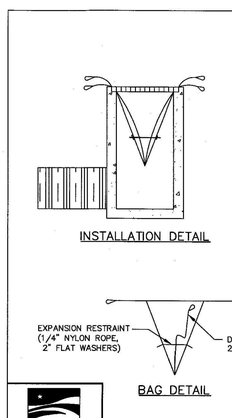
MAINTENANCE:
1. WATTLES SHOULD BE CHECKED AND CLEARED OF ACCUMULATED DEBRIS AND SEDIMENT.
2. REPLACE AS REQUIRED.

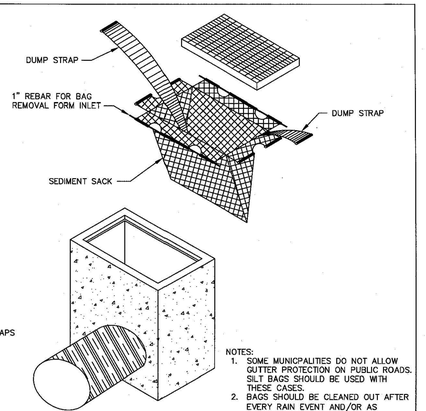
TEMPORARY WATTLE DETAIL
N.T.S.



NOTES:
1. USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.
2. PROVIDE STABILIZED OUTLET TO STREAM BANK.
3. WOOD PALLETS MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER OF PALLETS MUST BE PROVIDED TO ELEVATE THE ENTIRE SPECIAL STILLING BASIN ABOVE NATURAL GROUND.
4. THE SIZE AND NUMBER OF SILT BAGS SHOULD BE BASED ON THE DEWATERING PUMP AND MANUFACTURER RECOMMENDATIONS.
5. TIGHTLY SECURE THE PUMP DISCHARGE TO THE SILT BAG SLEEVE WITH A STRAP OR SIMILAR DEVICE TO PREVENT WATER/SEDIMENT FROM LEAKING WITHOUT TREATMENT.
6. CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE SILT BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. AS THE BAG FILLS WITHIN SEDIMENT, REDUCE THE PUMP RATE.
7. REPLACE THE SILT BAG WHEN ONE HALF (1/2) FULL OF SEDIMENT.
8. SILT BAG DEVICE MUST BE ≥ 50FT FROM THE TOP OF THE STREAM BANK AND WATER MUST BE DISCHARGED IN A DIFFUSE MANNER.

SILT BAG
NOT TO SCALE



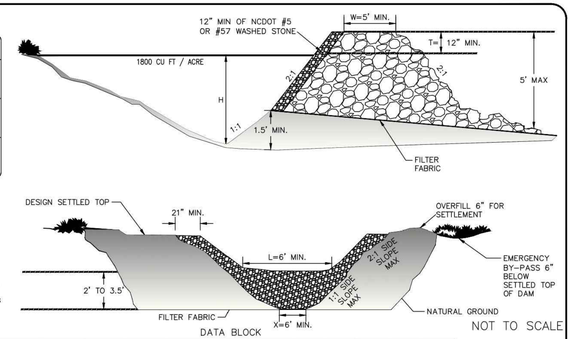


NOTES:
1. SOME MUNICPALITIES DO NOT ALLOW GUTTER PROTECTION ON PUBLIC ROADS. SILT BAGS SHOULD BE USED WITH THESE CASES.
2. BAGS SHOULD BE CLEANED OUT AFTER EVERY RAIN EVENT AND/OR AS NEEDED.

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD SILT BAG - INLET SEDIMENT CONTROL DEVICE

TEMPORARY SEDIMENT TRAP DESIGN CRITERIA	
DRAINAGE AREA (ACRES)	< 1 AC.
MIN. LENGTH TO WIDTH RATIO	2:1
MIN. VOLUME REQUIRED	1800 (CU. FT. PER AC. DISTURBED)



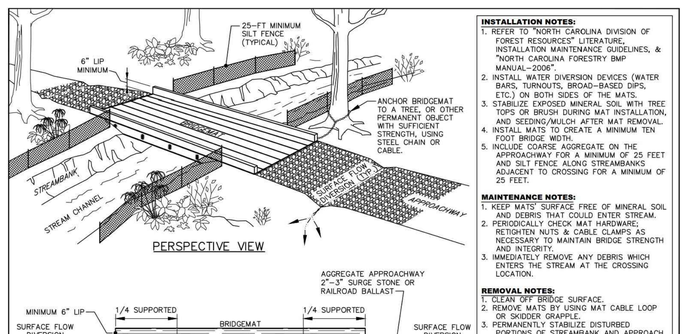
NOTE:
PLEASE REFER TO NCESCPOM SECTION #6.60 FOR ADDITIONAL DESIGN SPECIFICATIONS REGARDING TEMPORARY SEDIMENT TRAPS.

DATA BLOCK

NOT TO SCALE

TRAP NO.	DRAINAGE AREA (ACRES)	DENUDED AREA (ACRES)	Q10 (CFS)	TRAP VOLUME REQUIRED (CUBIC FT.)	TRAP VOLUME PROVIDED (CUBIC FT.)	CLEANOUT DEPTH (FT.) h/2	H (FEET)	L (FEET)	T (FEET)	W (FEET)	Y (FEET)
RB-1	1	2.45	7.25	4410	5622	0.75	1.5	10	1	5	6
RB-2	0.15	0.15	0.44	270	280	1	2	6	1	5	6
RB-3	0.09	0.09	0.27	162	180	1	2	6	1	5	6
RB-4	0.14	0.14	0.41	252	260	1	2	6	1	5	6
RB-5	0.10	0.10	0.30	180	180	1	2	6	1	5	6

RIP RAP BASIN



INSTALLATION NOTES:
1. REFER TO "NORTH CAROLINA DIVISION OF FOREST RESOURCES" LITERATURE, INSTALLATION MAINTENANCE GUIDELINES, & "NORTH CAROLINA FORESTRY BMP MANUAL–2006".
2. INSTALL WATER DIVERSION DEVICES (WATER BARS, TURNOUTS, BROAD–BASED DIPS, ETC.) ON BOTH SIDES OF THE MATS.
3. STABILIZE EXPOSED MINERAL SOIL WITH TREE TOPS OR BRUSH DURING MAT INSTALLATION, AND SEEDING/MULCH AFTER MAT REMOVAL.
4. INSTALL MATS TO CREATE A MINIMUM TEN FOOT BRIDGE WIDTH.
5. INCLUDE COARSE AGGREGATE ON THE APPROACHWAY FOR A MINIMUM OF 25 FEET AND SILT FENCE ALONG STREAMBANKS ADJACENT TO CROSSING FOR A MINIMUM OF 25 FEET.

MAINTENANCE NOTES:
1. KEEP MATS' SURFACE FREE OF MINERAL SOIL AND DEBRIS THAT COULD ENTER STREAM.
2. PERIODICALLY CHECK MAT HARDWARE; RETIGHTEN NUTS & CABLE CLAMPS AS NECESSARY TO MAINTAIN BRIDGE STRENGTH AND INTEGRITY.
3. IMMEDIATELY REMOVE ANY DEBRIS WHICH ENTERS THE STREAM AT THE CROSSING LOCATION.

REMOVAL NOTES:
1. CLEAN OFF BRIDGE SURFACE.
2. REMOVE MATS BY USING MAT CABLE LOOP OR SKIDDER GRAPPLE.
3. PERMANENTLY STABILIZE DISTURBED PORTIONS OF STREAMBANK AND APPROACH ROADS WITH PERENNIAL GRASSES,/MULCH (OR WETLAND MIX WHEN APPLICABLE).
4. LEAVE APPROPRIATE WATER DIVERSION STRUCTURES IN PLACE ON BOTH SIDES OF STREAM.
5. RESTORE THE STREAM CHANNEL TO ITS ORIGINAL CROSS–SECTION, AND SMOOTH AND APPROPRIATELY STABILIZE ALL DISTURBED AREAS.

STANDARD TEMPORARY STREAM CROSSING OPTION

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
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TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T. O'Daniel
Date: 2024.05.01 14:39:51-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

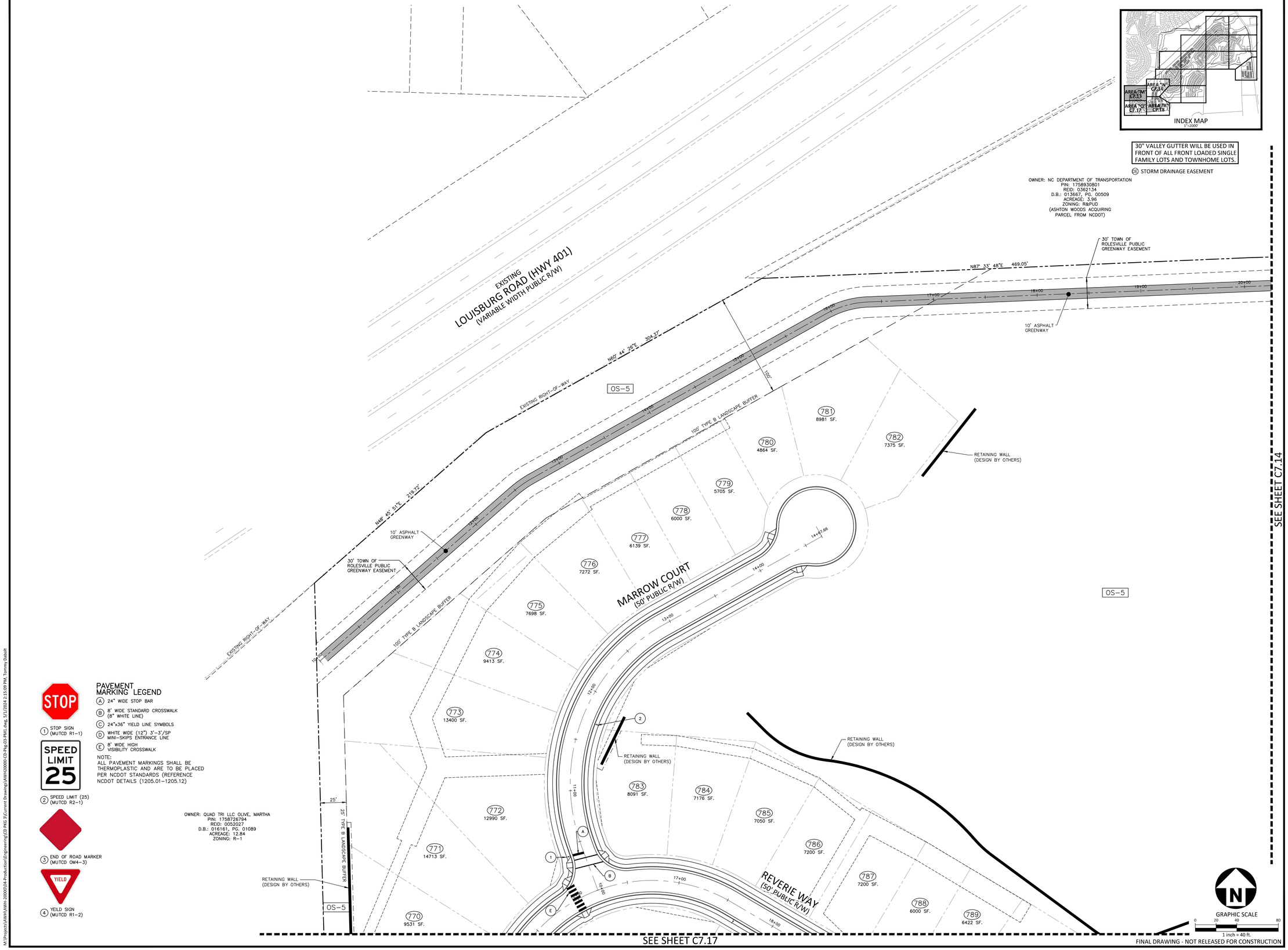
PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-02-EC4
CHECKED BY	.
DRAWN BY	.
SCALE	N.T.S.
DATE	04. 26. 2024

SHEET

EROSION CONTROL DETAILS

C6.07

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-Pkg-03-EC4.dwg, 4/30/2024 11:48:45 AM, Ashley Abbott



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CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:41:06-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

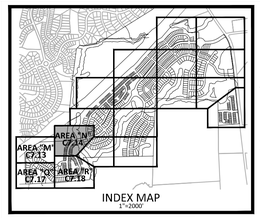
PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-PM1
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 13. 2023

SHEET

PAVEMENT MARKING AND SIGNAGE PLAN AREA "M"

C7.13

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-Pkg-03-PM1.dwg, 5/1/2024 2:15:09 PM, Tommy Daboll



INDEX MAP
1"=2000'

30" VALLEY GUTTER WILL BE USED IN FRONT OF ALL FRONT LOADED SINGLE FAMILY LOTS AND TOWNHOME LOTS.

EXISTING LOUISBURG ROAD (HWY 401) (VARIABLE WIDTH PUBLIC R/W)

EXISTING RIGHT-OF-WAY

SD STORM DRAINAGE EASEMENT

STOP
1 STOP SIGN (MUTCD R1-1)

SPEED LIMIT 25
2 SPEED LIMIT (25) (MUTCD R2-1)

3 END OF ROAD MARKER (MUTCD OM4-3)

YIELD
4 YEILD SIGN (MUTCD R1-2)

PAVEMENT MARKING LEGEND

- (A) 24" WIDE STOP BAR
- (B) 8' WIDE STANDARD CROSSWALK (8" WHITE LINE)
- (C) 24"x36" YIELD LINE SYMBOLS
- (D) WHITE WIDE (12") 3'-3'/SP MINI-SKIPS ENTRANCE LINE
- (E) 8' WIDE HIGH VISIBILITY CROSSWALK (10' WIDE AT GREENWAY CROSSING)

NOTE:
ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND ARE TO BE PLACED PER NCDOT STANDARDS (REFERENCE NCDOT DETAILS (1205.01-1205.12)

OWNER: NC DEPARTMENT OF TRANSPORTATION
PIN: 1758930801
REID: 0362134
D.B.: 013667, PG. 00509
ACREAGE: 3.96
ZONING: R&PUD
(ASHTON WOODS ACQUIRING PARCEL FROM NCDOT)

100' TYPE B LANDSCAPE BUFFER

10' ASPHALT GREENWAY

EXISTING 20' CITY OF RALEIGH SANITARY SEWER EASEMENT

PHASE 8

PHASE 5

ZONE 1

ZONE 2

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

TOP OF BANK (TYP.)

STORMWATER CONTROL MEASURE "I" (WET POND)
OS-18

STORMWATER CONTROL MEASURE ACCESS AND MAINTENANCE EASEMENT

SOLACE WAY (50' PUBLIC R/W)

598 6250 SF.
597 7847 SF.
596 8487 SF.
594 6250 SF.
593 6250 SF.
595 6933 SF.
OS-22
OS-23

N09° 30' 43"E 535.11'

30' TOWN OF ROLESVILLE PUBLIC GREENWAY EASEMENT

OS-5

CONCRETE EXERCISE STATION

PROPOSED 40' CITY OF RALEIGH SANITARY SEWER EASEMENT

RETAINING WALL (DESIGN BY OTHERS)

40' STORM DRAINAGE EASEMENT

QUARRY ROAD (60' PUBLIC R/W)

668 2474 SF.
669 1910 SF.
670 1910 SF.
671 2474 SF.
672 2529 SF.
673 1922 SF.
674 1895 SF.
675 1895 SF.
676 1922 SF.
677 2529 SF.
624 2462 SF.
625 1993 SF.
626 2008 SF.
627 1993 SF.
628 2462 SF.
678 2668 SF.
679 1997 SF.
680 1940 SF.
681 1911 SF.
682 1905 SF.
683 2424 SF.
629 2506 SF.
630 2091 SF.
631 2161 SF.
632 2199 SF.
633 2208 SF.
634 2208 SF.
635 2811 SF.
684 2421 SF.
685 1902 SF.
686 1902 SF.
687 1902 SF.
636 3270 SF.
637 2239 SF.
638 2030 SF.
639 1884 SF.
579 7432 SF.
578 7556 SF.
577 7506 SF.
580 10023 SF.
581 6340 SF.
575 7506 SF.
574 7558 SF.

OS-8

CHARNT COURT (50' PUBLIC R/W)

N88° 08' 47"E 266.04'

PHASE 14

PHASE 8

OS-6

REVERIE WAY (50' PUBLIC R/W)

HANDICAP SIGN (R7-8) WITH PENALTY SIGN (R7-8D) AND VAN ACCESSIBLE SIGN (R7-8P) (SEE DETAIL)
NOTE: "VAN" IS NOT INTENDED TO BE A MARKING, ONLY A PARKING TYPE DESIGNATOR

OS-7

MAIL KIOSK AREA "4"

VAN

STORMWATER CONTROL MEASURE "K" (WET POND)
OS-8

20' TYPE B LANDSCAPE BUFFER

SEE SHEET C7.13

SEE SHEET C7.18

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

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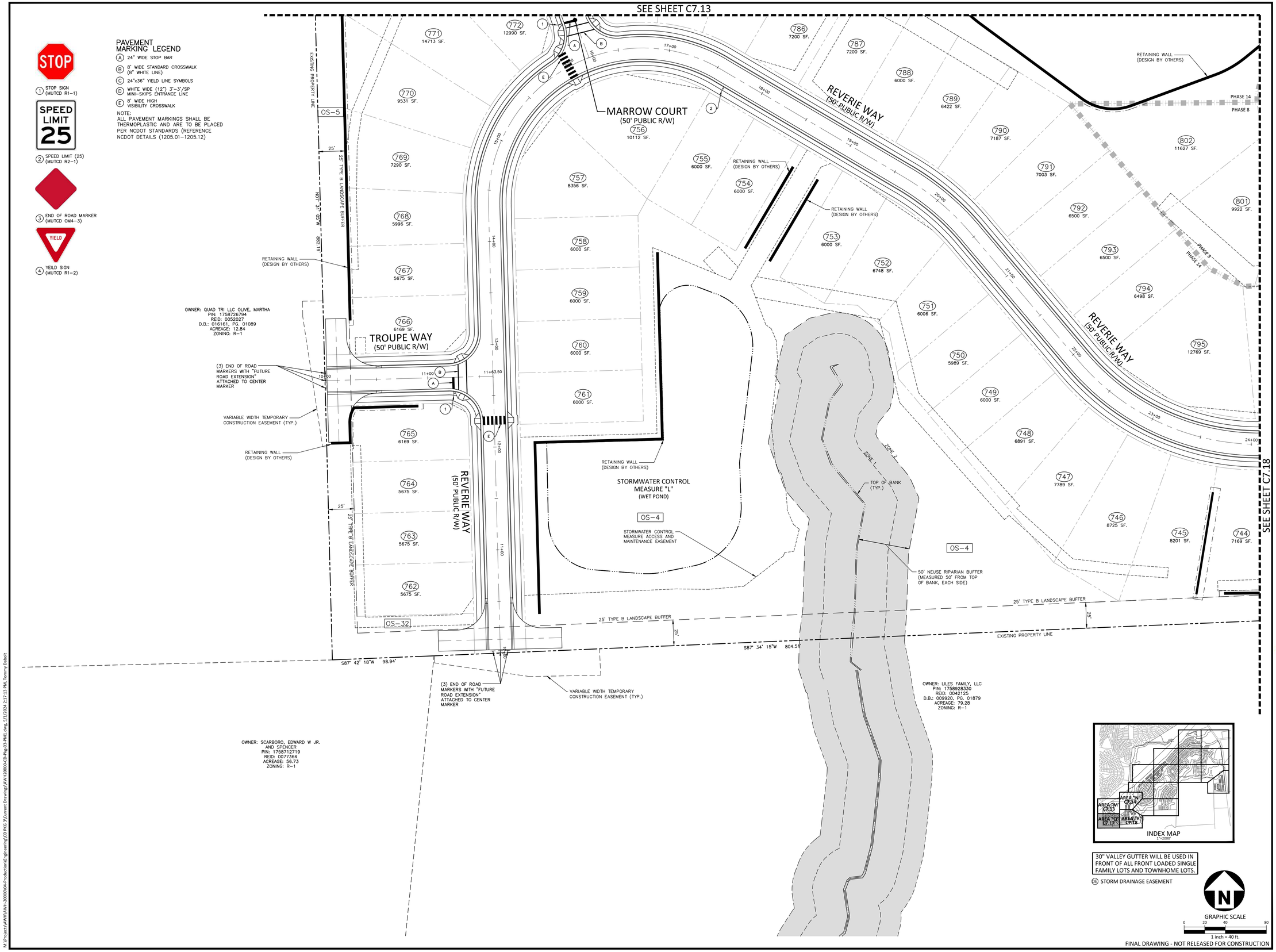
SHEET

PAVEMENT MARKING AND SIGNAGE PLAN AREA "N"

C7.14

SEE SHEET C7.13



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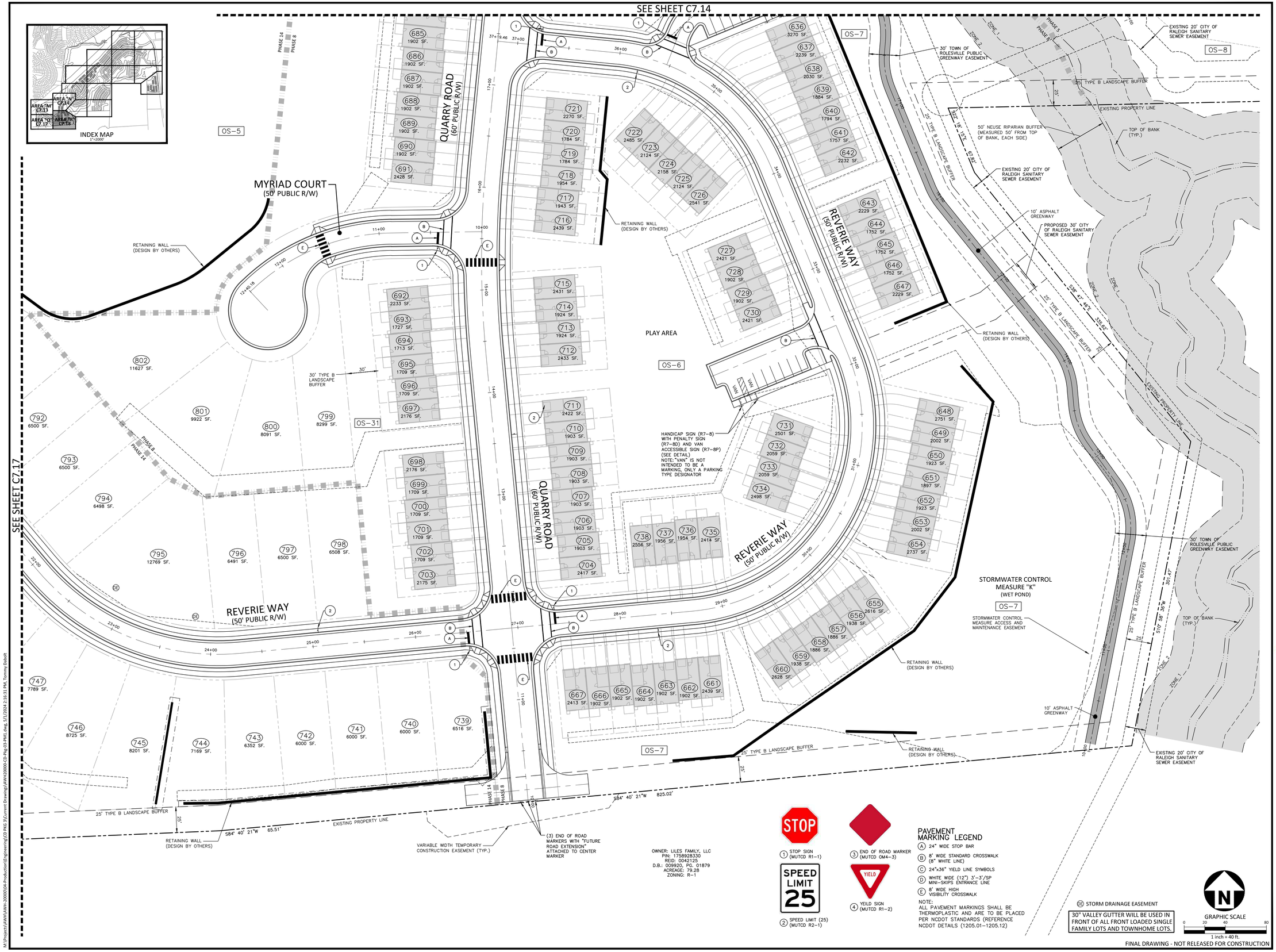
SHEET

PAVEMENT MARKING AND SIGNAGE PLAN AREA "O"

C7.17



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2 SPEED LIMIT (25) (MUTCD R2-1)

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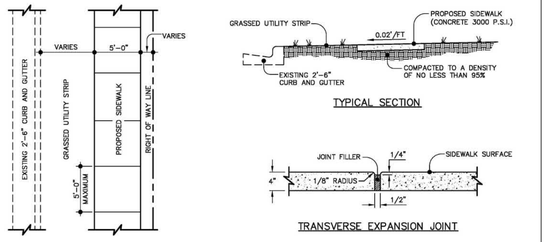
SHEET

PAVEMENT MARKING AND SIGNAGE PLAN AREA "R"

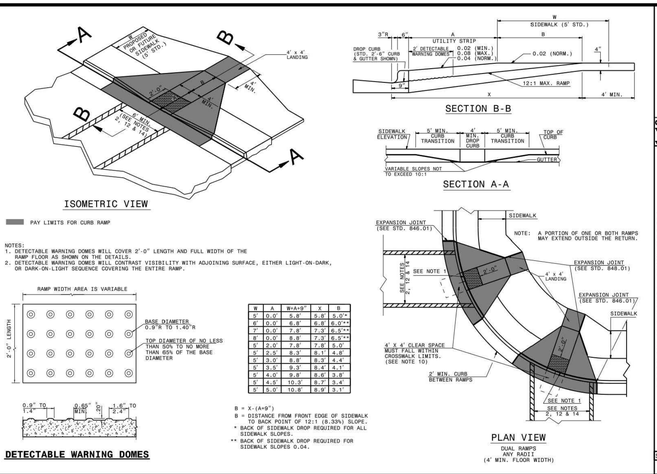
C7.18



NOTES:

1. TRANSVERSE EXPANSION JOINTS TO BE A MAXIMUM OF 50 FEET.
2. ALL CONCRETE TO BE FINISHED WITH CURING COMPOUND.
3. A 6 INCH DEPTH IS REQUIRED AT LOCATIONS OF DRIVEWAY CROSSINGS, AT STREET INTERSECTIONS (ALONG THE LENGTH OF RADIUS CURB RETURNS), AND IN THE HANDICAP RAMPS.

STANDARD CONCRETE SIDEWALK



NOTES:

1. DETECTABLE WARNING DOMES WILL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
2. DETECTABLE WARNING DOMES WILL CONTRAST VISIBILITY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.

DETECTABLE WARNING DOMES

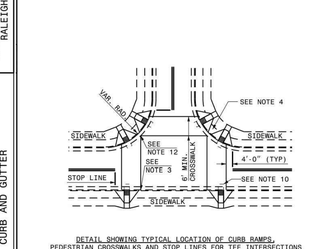
N	A	W+9"	X	B
4'	0.0'	5.8'	5.8'	5.0"*
6'	0.0'	6.5'	6.8'	6.0"*
7'	0.0'	7.6'	7.3'	6.5"*
8'	0.0'	8.8'	7.3'	6.5"*
4'	2.0'	6.5'	7.8'	6.0"
5'	2.5'	8.3'	8.1'	4.8"
5'	3.0'	8.8'	8.3'	4.4"
5'	3.5'	9.3'	8.4'	4.1"
5'	4.0'	9.8'	8.6'	3.8"
5'	4.5'	10.3'	8.7'	3.4"
5'	5.0'	10.8'	8.9'	3.1"

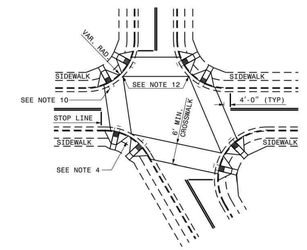
B = X-(A+9")
B = DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE.
* BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES.
** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPES 0.04.

1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CURB RAMP
PROPOSED CURB AND GUTTER

SHEET 1 OF 3
848.05





ROADWAY PLANS SYMBOL
CR
FOR PROPOSED CURB RAMP

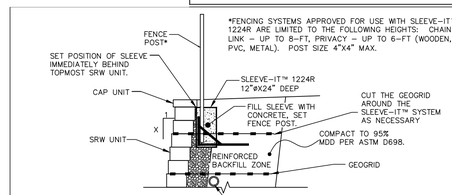
PROPOSED CURB RAMP W/ LANDING
PROPOSED OR FUTURE SIDEWALK

ALLOWABLE LOCATIONS
DUAL RAMP RADII.....ANY

1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CURB RAMP
PROPOSED CURB AND GUTTER

SHEET 2 OF 3
848.05

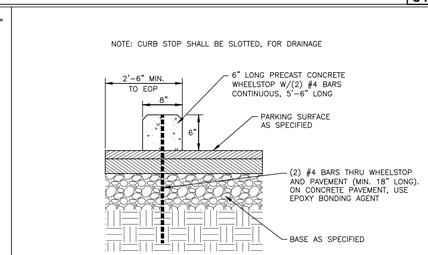


*FENCING SYSTEMS APPROVED FOR USE WITH SLEEVE-IT™ 1224R ARE LIMITED TO THE FOLLOWING HEIGHTS: CHAIN LINK – UP TO 8-FT, PRIVACY – UP TO 6-FT (WOODEN, PVC, METAL). POST SIZE 4"X4" MAX.

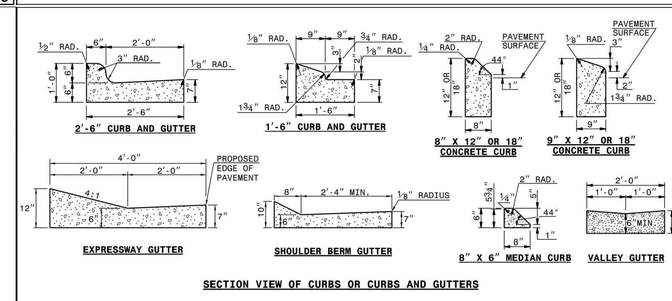
NOTES:

1. WALLS WILL BE DESIGNED BY A STRUCTURAL ENGINEER.
2. WALL COLOR TO BE EARTH TONE OR GRAY.

INTERLOCKING BLOCK WALL WITH FENCE
(SLEEVE-IT™ OR APPROVED EQUAL)
N.T.S.

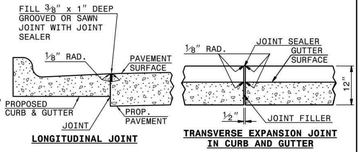


WHEEL STOP
N.T.S.



SECTION VIEW OF CURBS OR CURBS AND GUTTERS

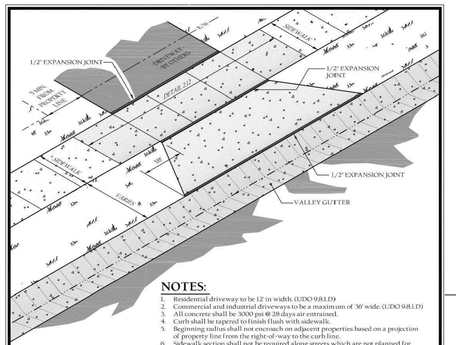
GENERAL NOTES:
-PLACE CONTRACTION JOINTS AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS.
-JOINT SPACING MAY BE ALTERED IF REQUIRED BY THE ENGINEER.
-CONTRACTION JOINTS MAY BE INSTALLED WITH THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS.
CONSTRUCT NON-TEMPLATE FORMED JOINTS A MIN. OF 1½" DEEP.
-FILL ALL CONSTRUCTION JOINTS, EXCEPT IN 8"x6" MEDIAN CURB, WITH JOINT FILLER AND SEALER.
-SPACE EXPANSION JOINTS AT 90' INTERVALS AND ADJACENT TO ALL RIGID OBJECTS.



SECTION VIEW OF JOINTS

ROADWAY STANDARD DRAWING FOR
CONCRETE CURB, GUTTER AND CURB & GUTTER

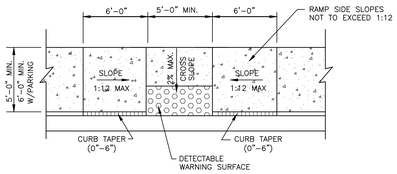
SHEET 1 OF 3
846.01



NOTES:

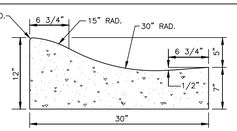
1. Residential driveway to be 12' in width. (UDO 9.8.1.D)
2. Commercial and industrial driveways to be a maximum of 36' wide. (UDO 9.8.1.D)
3. All concrete shall be 3000 psi @ 28 days air entrained.
4. Curb shall be tapered to finish flush with sidewalk.
5. Beginning radius shall not encroach on adjacent properties based on a projection of property line from the right-of-way to the curb line.
6. Sidewalk section shall not be required along streets which are not planned for sidewalk.
7. See also UDO 9.8 Driveway Access for other requirements.
8. Concrete must come from a ready mix concrete truck to ensure mix meets air entrainment requirements. No site mix or sakrete mix allowed.

FLARED DRIVEWAY ENTRANCE TO VALLEY GUTTER



NOTE: RAMP LANDING AREA SHALL RECEIVE A 24" DETECTABLE WARNING SURFACE OF COLOR TO CONTRAST WITH ADJOINING SURFACES PER ICC A117.1-2009 SECT. 705 REQUIREMENTS.

ACCESSIBLE SIDEWALK RAMP
N.T.S.



NOTES:

1. 10' MAXIMUM BETWEEN DUMMY JOINTS. 15' MAXIMUM BETWEEN DUMMY JOINTS ON MACHINE POURS.
2. 1/2" EXPANSION JOINT EVERY 50'.
3. 3000 PSI CONCRETE MINIMUM, 4" SLUMP MAXIMUM.
4. LIQUID MEMBRANE CURING COMPOUND SHALL MEET THE REQUIREMENTS OF SECTION 1026-2 OF NCDOT STANDARDS AND SPECIFICATIONS FOR ROADS AND STRUCTURES.
5. ALL CONSTRUCTION JOINTS SHALL BE FILLED WITH FILLER AND SEALER IN ACCORDANCE WITH NCDOT ROADWAY STANDARD DETAIL 846.01. THE JOINT MATERIAL SHALL CONFORM TO SECTION 1028-2 OF THE NCDOT STANDARDS AND SPECIFICATIONS FOR ROADS AND STRUCTURES.
6. REFER TO NCDOT DETAIL 846.01 FOR CURB AND GUTTER SUPERELEVATION RATES.

30" ROLLED CURB AND GUTTER
N.T.S.

NOTES:

1. CONSTRUCT THE RAMP SURFACE TO BE STABLE, FIRM, AND SLIP RESISTANT. CONSTRUCT THE CURB RAMP TYPE AS SHOWN IN THE PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER.
2. LOCATE CURB RAMPS AND PLACE PEDESTRIAN CROSSWALK MARKINGS AS SHOWN IN THE PAVEMENT MARKING PLANS. WHEN FIELD ADJUSTMENTS REQUIRE MOVING CURB RAMPS OR MARKINGS AS SHOWN, CONTACT THE SIGNING AND DELINEATION UNIT OR LOCATE AS DIRECTED BY THE ENGINEER.
3. COORDINATE THE CURB RAMP AND THE PEDESTRIAN CROSSWALK MARKINGS SO A 4'x4' CLEAR SPACE AT THE BASE OF THE CURB RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES.
4. SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL LANE IS 4' MINIMUM.
5. REFER TO THE PAVEMENT MARKING PLANS FOR STOP BAR LOCATIONS AT SIGNALIZED INTERSECTIONS. IF A PAVEMENT MARKING PLAN IS NOT PROVIDED, CONTACT THE SIGNAL DESIGN SECTION FOR THE STOP BAR LOCATIONS OR LOCATE AS DIRECTED BY THE ENGINEER.
6. TERMINATE PARKING A MINIMUM OF 20' BACK OF A PEDESTRIAN CROSSWALK.
7. CONSTRUCT CURB RAMPS A MINIMUM OF 4' WIDE.
8. CONSTRUCT THE RUNNING SLOPE OF THE RAMP 8.33% MAXIMUM.
9. ALLOWABLE CROSS SLOPE ON SIDEWALKS AND CURB RAMPS WILL BE 2% MAXIMUM.
10. CONSTRUCT THE SIDE FLARE SLOPE A MAXIMUM OF 10% MEASURED ALONG THE CURB LINE.
11. CONSTRUCT THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE BASE OF THE CURB RAMP A MAXIMUM OF 5% AND MAINTAIN A SMOOTH TRANSITION.
12. CONSTRUCT LANDINGS FOR SIDEWALK A MINIMUM OF 4'x4' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. CONSTRUCT LANDINGS FOR MEDIAN ISLANDS A MINIMUM OF 5'x5' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
13. TO USE A MEDIAN ISLAND AS A PEDESTRIAN REFUGE AREA, MEDIAN ISLANDS WILL BE A MINIMUM OF 6' WIDE. CONSTRUCT MEDIAN ISLANDS TO PROVIDE PASSAGE OVER OR THROUGHT THE ISLAND.
14. SMALL CHANNELIZATION ISLANDS THAT CAN NOT PROVIDE A 5'X5' LANDING AT THE TOP OF A RAMPS, WILL BE CUT THROUGH LEVEL WITH THE SURFACE STREET.
15. CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED.
16. PLACE A ½" EXPANSION JOINT WHERE THE CONCRETE CURB RAMP JOINS THE CURB AS SHOWN IN ROADWAY STANDARD DRAWING 848.01
17. PLACE ALL PEDESTRIAN PUSH BUTTON ACTUATORS AND CROSSING SIGNALS AS SHOWN IN THE PLANS OR AS SHOWN IN THE MUTCD.
18. CURB RAMPS THROUGH MEDIAN ISLANDS, SINGLE RAMPS AT DUAL CROSSWALKS OR LIMITED R/W SITUATIONS, WILL BE HANDLED BY SPECIAL DETAILS. CONTACT THE CONTRACT STANDARDS AND DEVELOPMENT UNIT FOR THE DETAILS OR FOR A SPECIAL DESIGN.

1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CURB RAMPS
NOTES

SHEET 3 OF 3
848.05

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:53:23-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

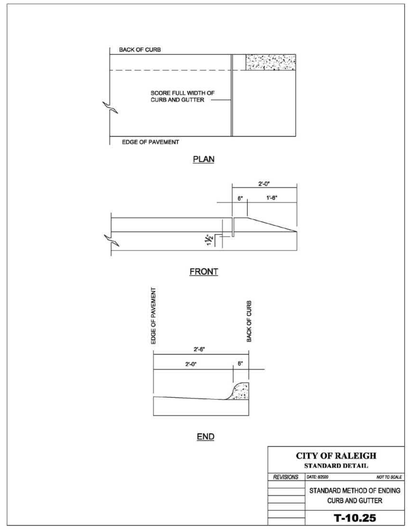
PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-D1
CHECKED BY	.
DRAWN BY	TKD
SCALE	N.T.S.
DATE	12. 13. 2023

SHEET

SITE DETAILS

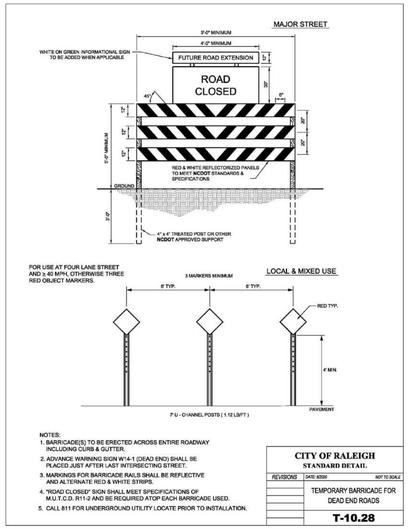
C8.00

X:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawings\AWH20000-CD-Pkg-03-D1.dwg, 5/1/2024 2:47:53 PM, Tommy Dabolt



CITY OF RALEIGH
STANDARD DETAIL.

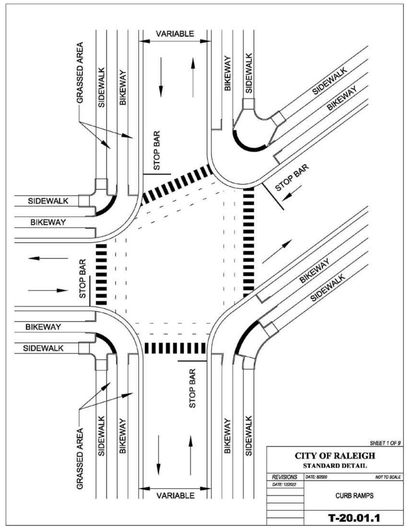
REVISIONS	DATE: 8/2020	NOT TO SCALE
	STANDARD METHOD OF ENDING CURB AND GUTTER	
	T-10.25	



NOTES:
1. BARRICADE(S) TO BE ERECTED ACROSS ENTIRE ROADWAY INCLUDING CURB & GUTTER.
2. ADVANCE WARNING SIGN W1-4-1 (DEAD END) SHALL BE PLACED JUST AFTER LAST INTERSECTING STREET.
3. MARKINGS FOR BARRICADE RAILS SHALL BE REFLECTIVE AND ALTERNATE RED & WHITE STRIPS.
4. "ROAD CLOSED" SIGN SHALL MEET SPECIFICATIONS OF M.U.T.C.D. R11-2 AND BE REQUIRED ATOP EACH BARRICADE USED.
5. CALL 811 FOR UNDERGROUND UTILITY LOCATE PRIOR TO INSTALLATION.

CITY OF RALEIGH
STANDARD DETAIL.

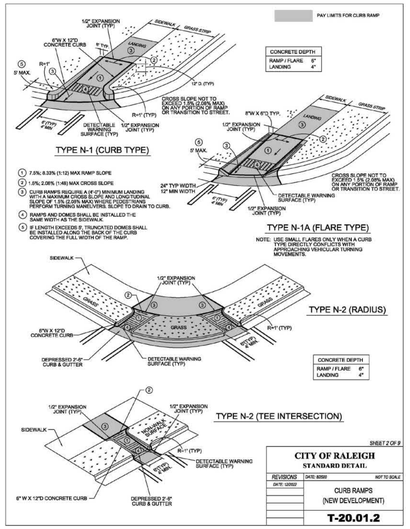
REVISIONS	DATE: 8/2020	NOT TO SCALE
	TEMPORARY BARRICADE FOR DEAD END ROADS	
	T-10.28	



SHEET 1 OF 9

CITY OF RALEIGH
STANDARD DETAIL.

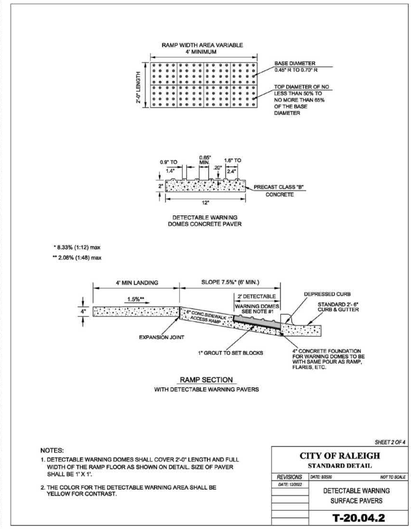
REVISIONS	DATE: 8/2020	NOT TO SCALE
DATE: 12/2021	CURB RAMPS	
	T-20.01.1	



SHEET 2 OF 9

CITY OF RALEIGH
STANDARD DETAIL.

REVISIONS	DATE: 8/2020	NOT TO SCALE
DATE: 12/2021	CURB RAMPS (NEW DEVELOPMENT)	
	T-20.01.2	

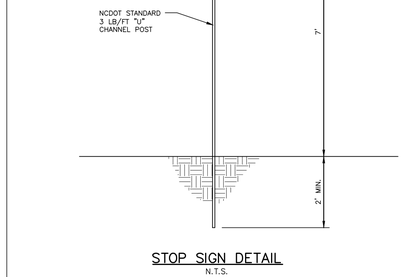


NOTES:
1. DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON DETAIL. SIZE OF PAVER SHALL BE 1' X 1'.
2. THE COLOR FOR THE DETECTABLE WARNING AREA SHALL BE YELLOW FOR CONTRAST.

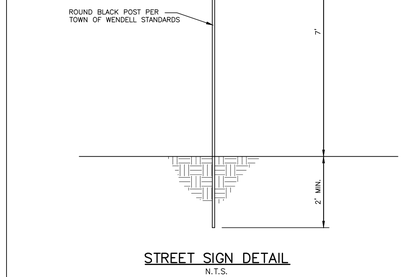
SHEET 2 OF 4

CITY OF RALEIGH
STANDARD DETAIL.

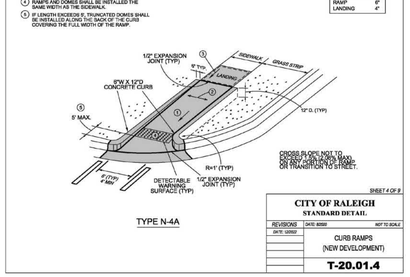
REVISIONS	DATE: 8/2020	NOT TO SCALE
	DETECTABLE WARNING SURFACE PAVERS	
	T-20.04.2	



STOP SIGN DETAIL
N.T.S.



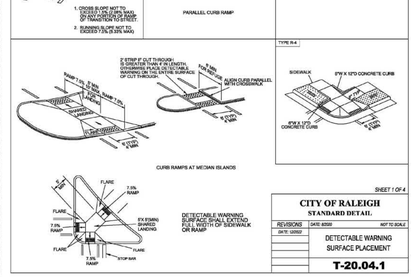
STREET SIGN DETAIL
N.T.S.



SHEET 4 OF 9

CITY OF RALEIGH
STANDARD DETAIL.

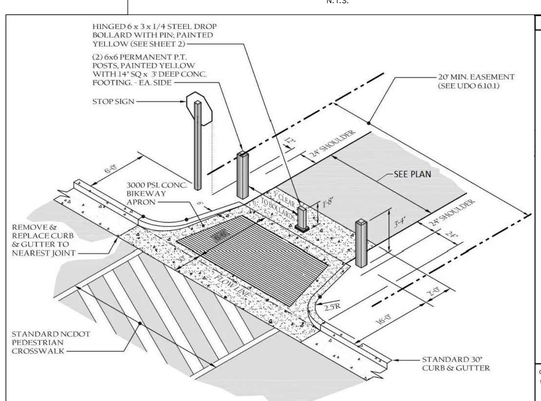
REVISIONS	DATE: 8/2020	NOT TO SCALE
DATE: 12/2021	CURB RAMPS (NEW DEVELOPMENT)	
	T-20.01.4	

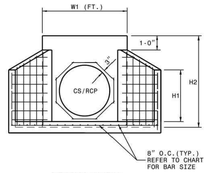


SHEET 1 OF 4

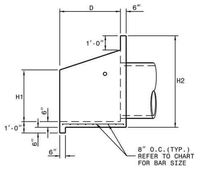
CITY OF RALEIGH
STANDARD DETAIL.

REVISIONS	DATE: 8/2020	NOT TO SCALE
	DETECTABLE WARNING SURFACE PLACEMENT	
	T-20.04.1	


HINGED 6 x 3 x 1/4 STEEL DROP BOLLARD WITH PINC PAINTED YELLOW (SEE SHEET 2)
(2) 6x6 PERMANENT P.T. POSTS, PAINTED YELLOW WITH 14" SQ x 3' DEEP CONC. FOOTING. - EA. SIDE
STOP SIGN
20' MIN. EASEMENT (SEE UDO 6.10.1)
4'
18" SHOULDER
SEE PLAN
6'-0"
3000 PSI CONC. BIKEWAY APRON
7'-0"
7'-0"
2%
2%
2%



ELEVATION

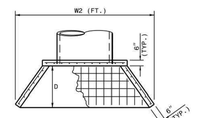


SIDE

NOTES:

* THIS PRECAST ENDWALL MAY BE USED FOR THE FOLLOWING STANDARDS: 838.01, 838.11, 838.21, 838.27, 838.33, 838.39, 838.51, 838.57, 838.63 AND 838.69.
* INSTALL PRECAST ENDWALLS WITH WINGS AND PAY FOR IN ACCORDANCE WITH SPECIFICATION SECTION 838.
* USE 4000 PSI CONCRETE.
* PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A185 WITH 2" MIN. CLEARANCE.
* PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
* PIPE TO BE GROUTED INTO HEADWALL AT JOB SITE BY CONTRACTOR
* ALL ELEMENTS PRECAST TO MEET ASTM C913.
* WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
* CHAMFER ALL CORNERS 1" OR HAVE A RADIUS OF 1".

NOTE: THE MINIMUM BAR SIZE SHALL BE #5 BARS AT 8" CTS.THE CONTRACTOR WILL HAVE THE OPTION TO INCREASE THIS BAR SIZE AS NEEDED.



PLAN

ENDWALL DIMENSIONS

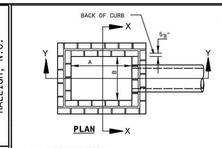
FT.	MINIMUM	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.
PIPE DIA.	BAR SIZE	H1(FT.)	H2(FT.)	D (FT.)	W1	W2
1.0	#5 @ 8"	1.25/2.00	2.00/3.75	1.25/1.75	3.00/3.75	5.50/6.00
1.25	#5 @ 8"	1.25/2.00	3.00/3.75	1.25/2.00	3.50/3.75	6.50/6.75
1.50	#5 @ 8"	1.25/2.00	3.00/4.25	1.50/2.50	3.50/3.75	6.50/6.75
2.0	#5 @ 8"	1.50/2.50	4.00/4.75	1.75/2.50	4.00/4.25	7.50/8.25
2.5	#5 @ 8"	2.50/3.50	4.00/6.00	2.00/3.00	4.50/5.50	10.00/11.50
3.0	#5 @ 8"	3.00/3.50	5.00/6.00	2.75/3.50	5.25/5.75	11.50/11.75
3.5	#5 @ 8"	3.25/4.50	6.00/6.75	3.25/3.50	6.00/6.75	12.00/13.25
4.0	#5 @ 8"	3.50/4.50	6.50/7.00	3.25/3.50	6.50/6.75	13.00/13.25
4.5	#5 @ 8"	4.00/5.00	6.50/8.50	3.25/4.00	7.00/9.25	13.50/15.75
5.0	#5 @ 8"	4.50/5.00	7.00/8.50	3.25/4.00	7.25/9.25	13.75/15.75
5.5	#5 @ 8"	4.50/5.00	7.50/8.50	3.25/4.00	7.25/9.25	14.00/15.75
6.0	#5 @ 8"	4.50/5.00	7.50/8.50	3.25/4.00	7.75/9.25	14.75/16.75

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

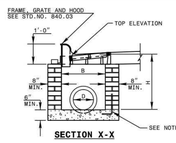
1-18

ROADWAY STANDARD DRAWING FOR
PRECAST CONCRETE ENDWALL
FOR SINGLE 12" THRU 72" PIPE - 90° SKEW

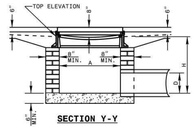
SHEET 1 OF 1
838.80



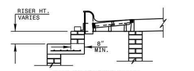
PLAN

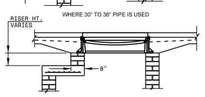


SECTION X-X

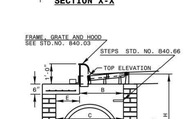


SECTION Y-Y

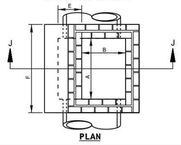




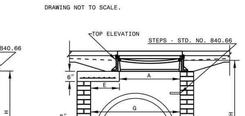
DETAIL SHOWING METHOD OF RISER CONSTRUCTION



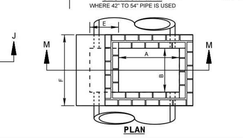
SECTION J-J



PLAN



SECTION M-M



PLAN

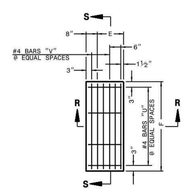
NOTES: MORTAR JOINTS ½" +/- ⅛" THICK.
USE CLASS "B" CONCRETE THROUGHOUT.
USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.
DEDUCT FOR PIPE(S) FROM TOTAL CU. YDS. OF BRICK MASONRY.
USE #4 BAR DOWELS AT 12" CENTERS FOR ALL PIPE SIZES.
PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
USE BRICK OR CONCRETE BLOCK WHICH COMPLIES WITH THE REQUIREMENTS OF SECTION 840 OF THE STANDARD SPECIFICATIONS.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
FOR 8'-0" IN HEIGHT OR LESS, USE 8" WALL. OVER 8'-0" IN HEIGHT, USE 12" WALL TO 6'-0" FROM TOP OF WALL AND 8" WALL FOR THE REMAINING 6'-0". QUANTITIES TO BE ADJUSTED ACCORDINGLY.
CONSTRUCT WITH PIPE CROWNS MATCHING.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

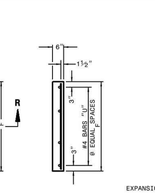
1-18

ROADWAY STANDARD DRAWING FOR
BRICK CATCH BASIN
12" THRU 54" PIPE

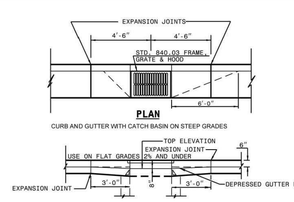
SHEET 1 OF 2
840.01



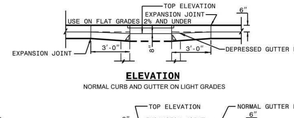
PLAN OF TOP SLAB



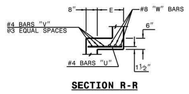
SECTION S-S



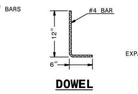
PLAN
CURB AND GUTTER WITH CATCH BASIN ON STEEP GRADES



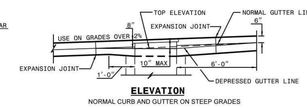
ELEVATION
NORMAL CURB AND GUTTER ON LIGHT GRADES



SECTION R-R



DOWEL



ELEVATION
NORMAL CURB AND GUTTER ON STEEP GRADES

MINIMUM DIMENSIONS AND QUANTITIES FOR BRICK CATCH BASIN(BASED ON MIN. HEIGHT, H, WITH NO RISER)*

DIMENSIONS OF BOX AND PIPE					TOP SLAB DIMENSIONS		BARS-U		BARS-V		BARS-W		CU.YDS. CONC. IN BOX		BRICK MASONRY	DEDUCTIONS ONE PIPE	
PIPE	SPAN	WIDTH	SKEW	MIN. HEIGHT			NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	TOP SLAB	BOTTOM SLAB	TOTAL CONC.	WALL PER FOOT HT. IN MASS	C.S.	R.C.
D	A	B	C	G	H	E	F						LBS.					
12"	3'-0"	2'-2"	--	--	2'-6"	--	--	--	--	--	--	--	--	0.281	0.281	0.883	1.164	0.020	0.042
15"	3'-0"	2'-2"			3'-0"									0.281	0.281	0.963	1.244	0.031	0.047
18"	3'-0"	2'-2"			3'-3"									0.281	0.281	1.043	1.324	0.044	0.065
24"	3'-0"	2'-2"			3'-9"									0.281	0.281	1.204	1.485	0.078	0.121
30"	3'-0"	2'-2"	3'-4"		4'-3"	1'-2"	4'-4"	4	1'-6"	3	4'-1"	3	4'-1"	45	0.147	0.374	0.521	1.606	2.217	0.122	0.184
36"	3'-0"	2'-2"	3'-10"		4'-9"	1'-8"	4'-4"	4	2'-0"	4	4'-1"	3	4'-1"	49	0.187	0.415	0.602	1.814	2.516	0.178	0.261
42"	3'-0"	2'-2"	4'-5"		5'-3"	1'-5"	3'-6"	4	1'-9"	3	3'-3"	3	3'-3"	38	0.135	0.373	0.508	2.152	2.660	0.240	0.371
48"	3'-0"	2'-2"	5'-0"		5'-9"	2'-0"	3'-6"	4	2'-6"	4	3'-3"	3	3'-3"	41	0.173	0.410	0.583	2.415	2.998	0.313	0.477
54"	3'-0"	2'-2"	5'-7"		6'-3"	2'-7"	3'-6"	4	3'-0"	6	3'-3"	3	3'-3"	47	0.211	0.448	0.659	2.805	3.465	0.398	0.595

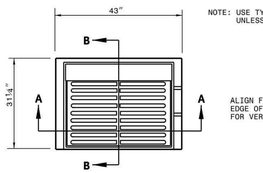
* RISER HAS .321 CUBIC YARDS OF BRICK MASONRY PER FOOT HEIGHT

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-18

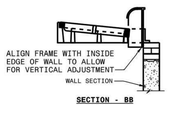
ROADWAY STANDARD DRAWING FOR
BRICK CATCH BASIN
12" THRU 54" PIPE

SHEET 2 OF 2
840.01



PLAN
FRAME,GRATE, & HOOD ASS'Y

NOTE: USE TYPE "E", "F" AND "G" GRATE UNLESS OTHERWISE NOTED.



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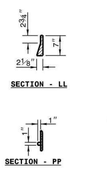
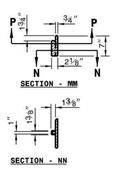
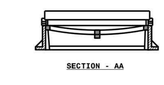


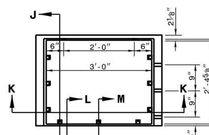
SECTION - LL
SECTION - PP



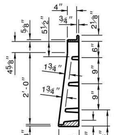
SECTION - MM
SECTION - NN



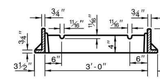
SECTION - AA



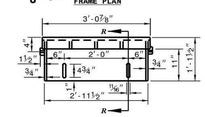
FRAME PLAN



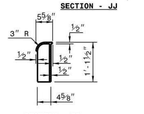
SECTION - JJ



SECTION - KK



HOOD ELEVATION



SECTION - RR

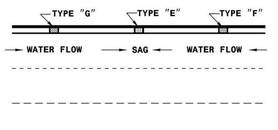
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

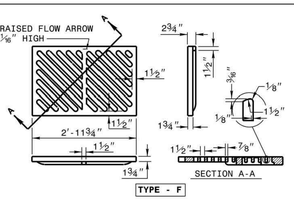
1-18

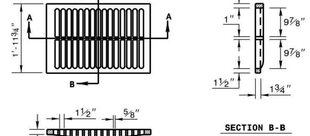
ROADWAY STANDARD DRAWING FOR
FRAME, GRATES, AND HOOD
FOR USE ON STANDARD CATCH BASIN

SHEET 1 OF 2
840.03

DETAIL SHOWING TYPES OF GRATES USE ACCORDING TO WATER FLOW.



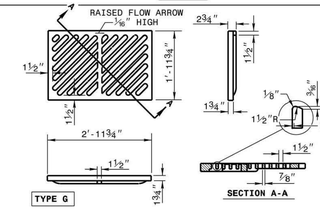




SECTION A-A

SECTION B-B

TYPE - E

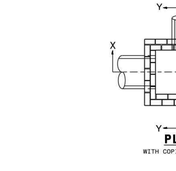


STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-18

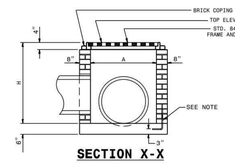
ROADWAY STANDARD DRAWING FOR
FRAME, GRATES, AND HOOD
FOR USE ON STANDARD CATCH BASIN

SHEET 2 OF 2
840.03

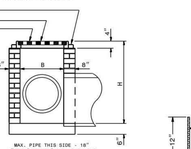


PLAN
WITH COPING REMOVED

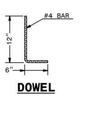
GENERAL NOTES:
MORTAR JOINTS ½" +/- ⅛" THICK.
USE CLASS "B" CONCRETE THROUGHOUT.
USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.
USE #4 BAR DOWELS AT 12" CENTERS.
DEDUCT FOR PIPE(S) FROM TOTAL CU. YDS. OF BRICK MASONRY.
PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
USE BRICK OR CONCRETE BLOCK WHICH COMPLIES WITH THE REQUIREMENTS OF SECTION 840 OF THE STANDARD SPECIFICATIONS.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
FOR 8'-0" IN HEIGHT OR LESS, USE 8" WALL. OVER 8'-0" IN HEIGHT, USE 12" WALL TO 6'-0" FROM TOP OF WALL AND 8" WALL FOR THE REMAINING 6'-0". QUANTITIES TO BE ADJUSTED ACCORDINGLY.
CONSTRUCT WITH PIPE CROWNS MATCHING.
SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES.
DO NOT USE BRICK MASONRY DROP INLET IN LOCATIONS SUBJECT TO TRAFFIC.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.



SECTION X-X



SECTION Y-Y



DOWEL

DIMENSIONS AND QUANTITIES FOR DROP INLET(BASED ON MIN. HEIGHT, H)

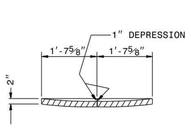
DIMENSIONS OF BOX & PIPE				CUBIC YARDS CONCRETE	CUBIC YARDS BRICK MASONRY		DEDUCTIONS FOR ONE PIPE	
PIPE	SPAN	WIDTH	MIN. HEIGHT	BOTTOM SLAB	WALL PER FOOT HT.	TOTAL BRICK MASONRY FOR MIN. HEIGHT, H	C.S.	R.C.
D	A	B	H					
12"	3'-0"	2'-0"	2'-0"	0.268	0.313	0.522	0.020	0.032
15"			2'-3"	0.268	0.313	0.600	0.031	0.047
18"			2'-6"	0.268	0.313	0.678	0.044	0.065
24"			3'-0"	0.268	0.313	0.835	0.078	0.113
30"	3'-0"	2'-0"	3'-6"	0.268	0.313	0.991	0.122	0.170

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

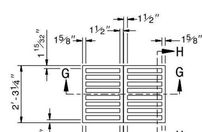
1-18

ROADWAY STANDARD DRAWING FOR
BRICK DROP INLET
12" THRU 30" PIPE

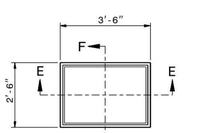
SHEET 1 OF 1
840.15



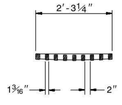
SECTION G-G



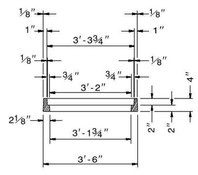
PLAN OF GRATING
CAST IRON



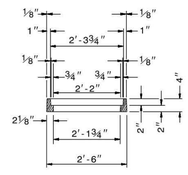
PLAN OF FRAME
CAST IRON



SECTION H-H



SECTION E-E



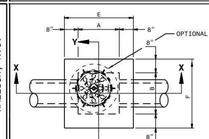
SECTION F-F

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

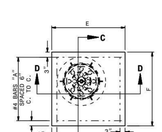
1-18

ROADWAY STANDARD DRAWING FOR
DROP INLET FRAME AND GRATES
FOR USE WITH STD. DWG.S 840.14 AND 840.15

SHEET 1 OF 1
840.16



PLAN

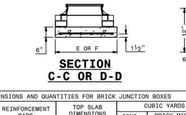


OUTLET ELEVATION

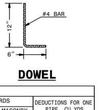
GENERAL NOTES:
CHAMFER ALL EXPOSED CORNERS 1".
USE CLASS "B" CONCRETE THROUGHOUT.
USE #4 BAR DOWELS AT 12" CENTERS.
MORTAR JOINTS ½" +/- ⅛" THICK.
CONCAVE TOO ALL EXPOSED JOINTS.
USE FORMS TO CONSTRUCT THE BOTTOM SLAB.
JUMBO BRICK WILL BE PERMITTED. CONCRETE BRICK OR 4" SOLID CONCRETE BLOCKS MAY BE USED IN LIEU OF CLAY BRICK.
FOR 8'-0" IN HEIGHT OR LESS, USE 8" WALL. OVER 8'-0" IN HEIGHT, USE 12" WALL TO 6'-0" FROM TOP OF WALL, AND 8" WALL FOR THE REMAINING 6'-0". ADJUST DIMENSIONS AND QUANTITIES ACCORDINGLY.
IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD TO BASE AS SHOWN ON STANDARD NO. 840.00.
PROVIDE ALL JUNCTION BOXES OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTERS IN ACCORDANCE WITH STD. NO. 840.66.
ADJUST THE STEEL, CONCRETE AND BRICK MASONRY QUANTITIES TO INCLUDE THE ADDITION OF THE MANHOLE (I.E. DIAGONAL BARS SHORTENED AROUND OPENING IN TOP SLAB, ADDITIONAL VARIABLE HEIGHT BRICK MASONRY, OPENING IN TOP SLAB.)
MAX. DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12 FEET.

SECTION X-X

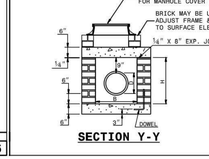
OUTLET ELEVATION



SECTION
C-C OR D-D



DOWEL



SECTION Y-Y

DIMENSIONS AND QUANTITIES FOR BRICK JUNCTION BOXES

DIMENSIONS OF BOX AND PIPE				REINFORCEMENT BARS		TOP SLAB DIMENSIONS		CUBIC YARDS			DEDUCTIONS FOR ONE PIPE CU.YDS.	
								CONC.	BRICK MASONRY			
PIPE	SPAN	WIDTH	HEIGHT	NO.	LENGTH	E	F	TOP & BOTTOM CU. YD.	MIN. HEIGHT CU. YD.	WALL PER FT. HT. CU. YD.	C.S.	R.C.
D	A	B	H									
12"	2'-0"	2'-0"	2'-3"	12	3'-1"	3'-4"	3'-4"	0.412	0.591	0.263	0.020	0.032
15"	2'-0"	2'-0"	2'-6"	12	3'-1"	3'-4"	3'-4"	0.412	0.657	0.263	0.031	0.047
18"	2'-4"	2'-4"	2'-9"	14	3'-5"	3'-8"	3'-8"	0.498	0.814	0.296	0.044	0.065
24"	3'-0"	3'-0"	3'-3"	16	4'-1"	4'-4"	4'-4"	0.695	1.176	0.362	0.078	0.113
30"	3'-4"	3'-4"	3'-9"	16	4'-5"	4'-8"	4'-8"	0.807	1.481	0.395	0.122	0.170
36"	4'-0"	4'-0"	4'-3"	20	5'-1"	5'-4"	5'-4"	1.053	1.959	0.461	0.176	0.238
42"	4'-8"	4'-8"	4'-9"	22	5'-9"	6'-0"	6'-0"	1.333	2.503	0.527	0.240	0.323
48"	5'-4"	5'-4"	5'-3"	26	6'-5"	6'-8"	6'-8"	1.646	2.940	0.560	0.313	0.422
54"	5'-10"	5'-10"	5'-9"	28	6'-11"	7'-2"	7'-2"	1.902	3.502	0.609	0.396	0.535
60"	6'-6"	6'-6"	6'-3"	30	7'-7"	7'-10"	7'-10"	2.272	4.113	0.658	0.489	0.660
66"	7'-1"	7'-1"	6'-9"	32	8'-2"	8'-5"	8'-5"	2.624	4.778	0.708	0.591	0.798

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-18

ROADWAY STANDARD DRAWING FOR
BRICK JUNCTION BOX
(WITH OPTIONAL MANHOLE)
12" THRU 66" PIPE

SHEET 1 OF 1
840.32

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:53:27-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-D1
CHECKED BY	.
DRAWN BY	TKD
SCALE	N.T.S.
DATE	12. 13. 2023

SHEET

STORM DRAINAGE DETAILS

C8.02

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawing\AWH20000-CD-PKG-03-D1.dwg, 5/1/2024 2:48:26 PM, Tommy Daboll

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

GENERAL NOTES:

USE STANDARD OR JUMBO BRICK FOR WALL CONSTRUCTION. SOLID CONCRETE BRICK OR BLOCK ARE OPTIONAL WALL CONSTRUCTION MATERIAL

INCLUDE ALL ADJUSTMENTS TO WALLS, SLABS OR REINFORCING MATERIAL IN THE UNIT PRICE BID FOR EACH UNIT.

INSTALL OPTIONAL MANHOLE IN POSITION AS DIRECTED BY THE ENGINEER. CUT OR BEND ALL REBAR CROSSING THIS OPENING TO ALLOW 2" MINIMUM CONCRETE COVERAGE. ENCLOSE THE OPENING WITH 8 "A" BARS TIED TO TO THE REBAR MAT AND SET SO A MINIMUM OF 3" CONCRETE COVER IS ATTAINED. REFERENCE STD. NO. 840.54 FOR MANHOLE INFORMATION.

PROVIDE JUNCTION BOXES WITH MANHOLES OVER 3'-6" IN DEPTH WITH STEPS PLACED ON 12" CENTERS. REFERENCE STD. NO. 840.66.

SPACE DOWEL "C" BARS AT A MAXIMUM OF 12" CENTERS.

MAXIMUM DEPTH OF THIS UNIT AS SHOWN IS 12'.

CONSTRUCT THE JUNCTION BOX IN ACCORDANCE WITH SECTIONS 830, 832, 834 AND 840 OF THE STANDARD SPECIFICATIONS.

BILL OF MATERIAL

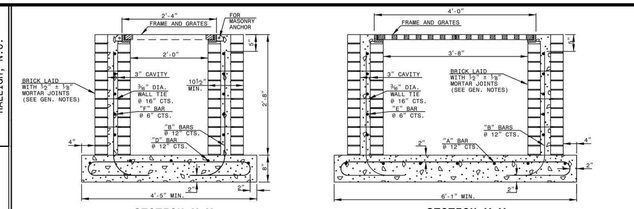
BAR	QTY.	SIZE	LENGTH	WEIGHT
A	8	#5	1'-2"	9.7
B	14	#5	5'-6"	80.3
C	26	#4	1'-6"	26.1
Y	14	#5	6'-11⅜"	101.5
		STEEL TOTAL WEIGHT		217.6
CU. YDS. CLASS "AA" CONC.				2.6
CU. YDS. BRICK/FT. HT. (8")				0.53
CU. YDS. BRICK/FT. HT. (12")				0.84

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

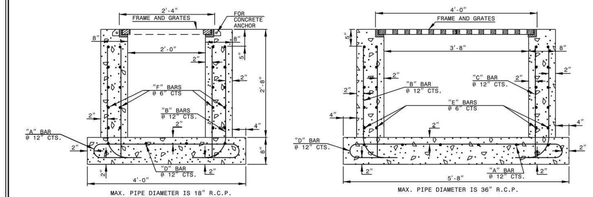
1-18

ROADWAY STANDARD DRAWING FOR
TRAFFIC BEARING JUNCTION BOX
FOR USE WITH PIPES 42" AND UNDER

SHEET 2 OF 2
840.34



SECTION X-X **SECTION Y-Y** **BRICK ALT.**



SECTION X-X **CONCRETE ALT.** **SECTION Y-Y**

NOTES:
-HORIZONTAL AND VERTICAL DIMENSIONS MAY BE ADJUSTED AS THE FIELD CONDITIONS AND/OR ALTERNATE DESIGN REQUIRE.
-MAXIMUM HEIGHT FOR THIS STRUCTURE IS 14'-0".
-MAKE ALL ADJUSTMENTS AS DIRECTED BY THE ENGINEER.
-DEPTH OF STEEL GRATE WILL REQUIRE DEEPER SEAT ALONG SHORT WALLS.

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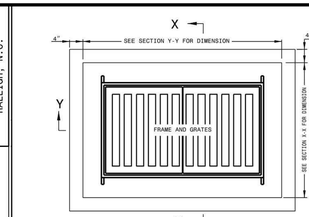
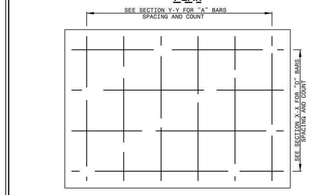
1-18

ROADWAY STANDARD DRAWING FOR
TRAFFIC BEARING GRATED DROP INLET
FOR CAST IRON DOUBLE FRAME AND GRATES

SHEET 1 OF 2
840.35



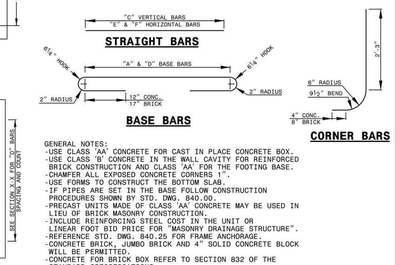
PLAN



PLAN OF BASE

BILL OF MATERIALS

COMMON					CONCRETE ALT.			BRICK ALT.		
BAR	SIZE	LENGTH	QUANTITY	WEIGHT	LENGTH	QUANTITY	WEIGHT	LENGTH	QUANTITY	WEIGHT
A	#5	6'-4½"	8	39.9	5'-7½"	6	67.2			
B	#5	5'-6"	14	58.3	5'-4½"	16	58.3			
C	#5	1'-6"	14	16.0	1'-6"	0	16.0			
D	#5	8'-0½"	4	33.6	9'-3½"	0	38.8			
E	#5	3'-0"	20	62.5	3'-0"	10	31.3			
F	#5	4'-8"	20	97.3	4'-8"	10	48.7			
REINF. STEEL TYOTAL WEIGHT LBS.:				328.6			222.2			
CONCRETE IN BASE CLASS 'AA' (CUBIC YARDS):				0.56			0.56			
CONCRETE IN WALLS CLASS 'AA' (CUBIC YARDS)				0.92			-0-			
CONCRETE IN WALLS CLASS 'B' (CUBIC YARDS)				-0-			0.36			
BRICK IN WALLS (CUBIC YARDS)				-0-			0.91			
CONCRETE TOTAL (CUBIC YARDS):				1.48			1.02			
BRICK & CONCRETE TOTAL (CUBIC YARDS):				1.48			1.93			
CONC. CUBIC YARDS IN WALL/FOOT OF HEIGHT				0.35			0.14			
BRICK CUBIC YARDS IN WALL/FOOT OF HEIGHT				-0-			0.34			
LBS. OF REINF. STEEL IN WALL/FOOT OF HEIGHT				84.9			47.6			



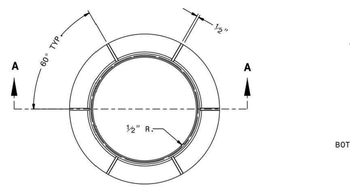
GENERAL NOTES:
-USE CLASS 'AA' CONCRETE FOR CAST IN PLACE CONCRETE BOX.
-USE CLASS 'B' CONCRETE IN THE WALL CAVITY FOR REINFORCED BRICK CONSTRUCTION AND CLASS 'AA' FOR THE FOOTING BASE.
-CHAMFER ALL EXPOSED CONCRETE CORNERS 1".
-USE FORMS TO CONSTRUCT THE BOTTOM SLAB.
-IF PIPES ARE SET IN THE BASE FOLLOW CONSTRUCTION PROCEDURES SHOWN BY STD. DWG. 840.00.
-PRECAST UNITS MADE OF CLASS 'AA' CONCRETE MAY BE USED IN LIEU OF BRICK MASONRY CONSTRUCTION.
-INCLUDE REINFORCING STEEL COST IN THE UNIT OR LINEAR FOOT BID PRICE FOR "MASONRY DRAINAGE STRUCTURE".
-REFERENCE STD. DWG. 840.25 FOR FRAME ANCHORAGE.
-CONCRETE BRICK, JUMBO BRICK AND 4" SOLID CONCRETE BLOCK WILL BE PERMITTED.
-CONCRETE FOR BRICK BOX REFER TO SECTION 832 OF THE STANDARD SPECIFICATIONS.
-PROVIDE GRATED DROP INLETS OVER 3'-6" DEEP WITH STEPS SPACED 12" ON CENTER AS DIRECTED BY STD. DWG. 840.66.
-FRAME AND GRATES ARE SEPARATE CONTRACT ITEMS.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-18

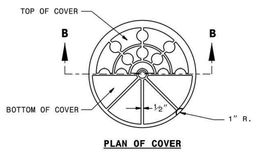
ROADWAY STANDARD DRAWING FOR
TRAFFIC BEARING GRATED DROP INLET
FOR CAST IRON DOUBLE FRAME AND GRATES

SHEET 2 OF 2
840.35

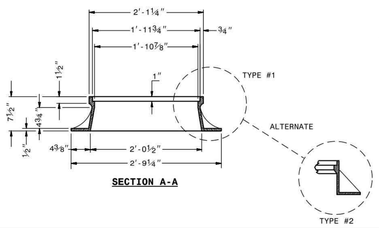


PLAN OF FRAME

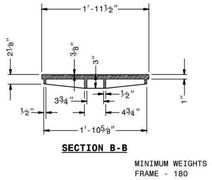
SOLID COVER SHOWN PERFORATED. PERFORATED AVAILABLE IF SPECIFIED.
STATE USE OF SYSTEM ON COVER
(I.E.: SEWER, STORM DRAIN, ELECTRICAL)



PLAN OF COVER



SECTION A-A



SECTION B-B

TYPE #2

MINIMUM WEIGHTS - LBS.
FRAME - 180
COVER - 120
TOTAL - 300

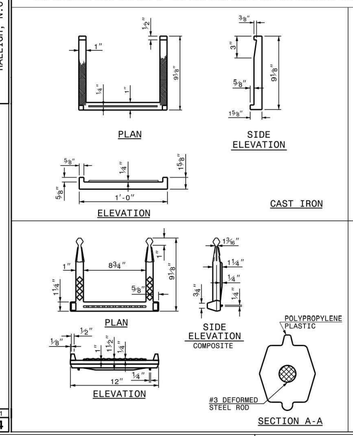
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

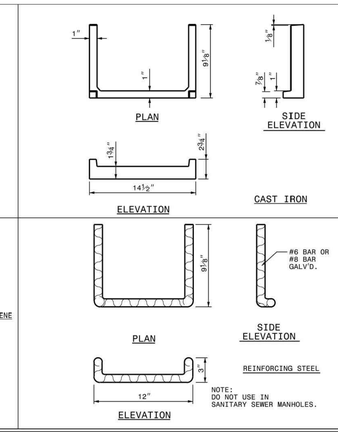
1-18

ROADWAY STANDARD DRAWING FOR
MANHOLE FRAME AND COVER

SHEET 1 OF 1
840.54

NOTES:
INSTALL ALL STEPS PROTRUDING 4" FROM INSIDE FACE OF STRUCTURE WALL.
STEPS DIFFERING IN DIMENSIONS, CONFIGURATION, OR MATERIALS FROM THOSE SHOWN MAY ALSO BE USED PROVIDED THE CONTRACTOR HAS FURNISHED THE ENGINEER WITH DETAILS OF THE PROPOSED STEPS AND HAS RECEIVED WRITTEN APPROVAL FROM THE ENGINEER FOR THE USE OF SUCH STEPS.





NOTE:
DO NOT USE IN SANITARY SEWER MANHOLES.

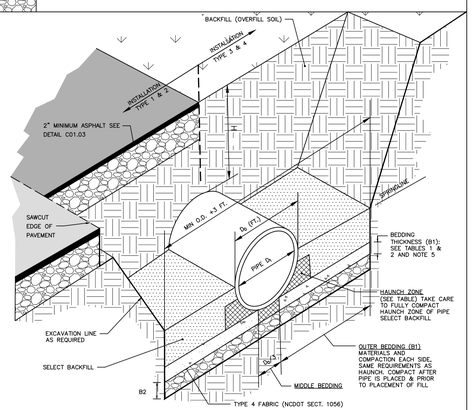
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-18

ROADWAY STANDARD DRAWING FOR
DRAINAGE STRUCTURE STEPS

SHEET 1 OF 1
840.66

H=	THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE EMBANKMENT AT THE POINT. DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.
	UNDISTURBED EARTH MATERIAL
	BEDDING (MIDDLE AND OUTER): LOOSELY PLACED SELECT BACKFILL MATERIAL MEETING NCDOT CLASS II, TYPE 1 (WASHED OR UNWASHED CRUSHED STONE SCREENINGS) OR CLASS III, TYPE 1 (NCDOT 25 OR 2M5 FINE AGGREGATE). LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.
	SELECT BACKFILL (BELOW SPRINGLINE): SELECT BACKFILL MATERIAL MEETING NCDOT CLASS II, TYPES 1 OR 2 OR NCDOT CLASS III, TYPES 1 OR 2
	BACKFILL: APPROVED SUITABLE LOCAL COMPACTABLE MATERIAL ABOVE SPRINGLINE OF PIPE MEETING LOCAL MUNICIPAL SPECIFICATIONS.
	ROCK FOUNDATION OR UNSUITABLE MATERIAL FOUNDATION: SELECT MATERIAL NCDOT CLASS V (#78M STONE) OR NCDOT CLASS VI (#57 STONE) FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH ENGINEERING FABRIC AS DIRECTED BY THE ENGINEER: TYPE 4 SOIL STABILIZATION FABRIC (NCDOT TABLE 1056-1). OVERLAP ALL TRANSVERSE AND LONGITUDINAL JOINTS IN FABRIC AT LEAST 18 INCHES. MAINTAIN THE PIPE FOUNDATION IN A DRY CONDITION.



STORM DRAIN PIPE INSTALLATION
N.T.S.

1 OF 3

TABLE 1
EQUIVALENT USCS[a] AND AASHTO SOIL CLASSIFICATION FOR SIDD[b] SOIL DESIGNATIONS

SIDD	USCS	NCDOT/AASHTO
GRAVELLY SAND (CATEGORY I)	SW, SP, GW, GP	–NCDOT CLASS II–TYPE I (CRUSHED STONE SCREENINGS), LL<30; PI≤6 –NCDOT CLASS III, TYPE I (25 OR 2M5), LL<30; PI≤6
SANDY SILT (CATEGORY II)	GM, SM, ALSO GC, SC WITH LESS THAN 20% PASSING #200 SIEVE	–NCDOT CLASS II TYPE I (CRUSHED STONE SCREENINGS) AND CLASS II, TYPE 2 (AASHTO M145 FOR A–2–4 WITH MAX PI OF 6, A–4 W/ MAX 45% PASSING #200 SIEVE AND A MAX PI OF 6) –NCDOT CLASS III, TYPE 1 (25 OR 2M5) OR CLASS II, TYPE 2 (AASHTO M145 FOR SOIL CLASSIFICATION A–1 OR A–3)
SILTY CLAY (CATEGORY III)	CL, MH, GC, SC	A5, A6

[a] UNIFOLD SOIL CLASSIFICATION SYSTEM
[b] STANDARD INSTALLATIONS DIRECT DESIGN

TABLE 2
STANDARD INSTALLATIONS SOILS AND MINIMUM COMPACTION REQUIREMENTS

INSTALLATION TYPE	BEDDING THICKNESS	OUTER BEDDING (B1) NOTE 5 (% COMPACTION/CATEGORY)	HAUNCH ZONE & SELECT BACKFILL AREA (% COMPACTION/CATEGORY)	LOCATION
TYPE 1	B1 = D/6 (6" MIN) B2=F ROCK FOUNDATION OR OVER UNSUITABLE FOUNDATION, 2" /FT OF 'H', 12" MIN/24" MAX	95% CATEGORY 1	90% CATEGORY 1 95% CATEGORY II	PAVED AREAS WITH 2' OR LESS BURY
TYPE 2	B1 = D/6 (6" MIN) B2=F ROCK FOUNDATION OR OVER UNSUITABLE FOUNDATION, 2" /FT OF 'H', 12" MIN/24" MAX	90% CATEGORY 1	85% CATEGORY 1 90% CATEGORY II	PAVED AREAS WITH GREATER THAN 2' OF BURY
TYPE 3	B1 = D/6 (6" MIN) B2=F ROCK FOUNDATION OR OVER UNSUITABLE FOUNDATION, 2" /FT OF 'H', 12" MIN/24" MAX	85% CATEGORY 1 90% CATEGORY II	85% CATEGORY 1 90% CATEGORY 1 OR 95% CATEGORY II	IN R/W OUTSIDE OF PAVEMENT
TYPE 4	B1 = D/6 (6" MIN) B2=F ROCK FOUNDATION OR OVER UNSUITABLE FOUNDATION, 2" /FT OF 'H', 12" MIN/24" MAX	NO COMPACTION REQUIRED, EXCEPT IF CATEGORY III, USE 85% CATEGORY II	NO COMPACTION REQUIRED, EXCEPT IF CATEGORY III, USE 85% CATEGORY II	NATURAL AREAS

NOTES:
1. COMPACTION AND SOIL SYMBOLS – I.E. "95% CATEGORY I" – REFERS TO CATEGORY I SOIL MATERIAL WITH MINIMUM STANDARD PROCTOR COMPACTION OF 95%.
2. SOIL IN THE OUTER BEDDING, HAUNCH, AND LOWER SIDE ZONES, EXCEPT UNDER THE MIDDLE ⅓ OF THE PIPE, SHALL BE COMPACTED TO AT LEAST THE SAME COMPACTION AS THE MAJORITY OF THE SOIL IN THE OVERFILL (BACKFILL) ZONE.
3. FOR TRENCHES: THE TOP ELEVATION SHALL BE NO LOWER THAN 0.1H BELOW FINISHED GRADE OR, FOR ROADWAYS, ITS TOP SHALL BE NO LOWER THAN AN ELEVATION OF 1–FOOT BELOW THE BOTTOM OF THE PAVEMENT BASE MATERIAL.
4. FOR TRENCHES, THE WIDTH SHALL BE WIDER THAN SHOWN IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.
5. COMPACT OUTER BEDDING AFTER PIPE IS PLACED AND PRIOR TO PLACEMENT OF SELECT FILL. MIDDLE BEDDING IS UNCOMPACTED.
6. OVERFILL (BACKFILL) SOILS TO BE PLACED PER STANDARD SPECIFICATION 02700 STORM DRAINAGE FOR THE APPLICABLE BACKFILL TYPE AND BURY LIMITATIONS.
7. THESE TWO TABLES WERE MODIFIED TO GENERALLY CONFORM TO THE NCDOT STANDARDS AS SHOWN IN DETAIL 300.01 RIGID PIPE IN TRENCH CONDITION.

REFERENCE SOURCES:
1. AMERICAN CONCRETE PIPE ASSOCIATION DESIGN STANDARDS
2. 2012 NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES AND NCDOT STANDARD DETAILS 300.01 FOR RIGID PIPE, TRENCH CONDITIONS."

STORM DRAIN PIPE INSTALLATION

2 OF 3

FILL HEIGHT TABLE[a]

INSIDE PIPE DIAMETER DI (INCHES)	TYPE 3 (BEDDING) INSTALLATION (0.01 INCH CRACK) CLASS III PIPE MAXIMUM BURY H (FEET)	TYPE 3 (BEDDING) INSTALLATION (0.01 INCH CRACK) CLASS IV PIPE MAXIMUM BURY H (FEET)	TYPE 4 (BEDDING) INSTALLATION (0.01 INCH CRACK) CLASS III PIPE MAXIMUM BURY H (FEET)	TYPE 4 (BEDDING) INSTALLATION (0.01 INCH CRACK) CLASS IV PIPE MAXIMUM BURY H (FEET)
15	2 MIN, 12 MAX	1 MIN, 20 MAX	3 MIN, 7 MAX	2 MIN, 12 MAX
18	2 MIN, 12 MAX	1 MIN, 20 MAX	3 MIN, 7 MAX	1 MIN, 13 MAX
24	1 MIN, 12 MAX	1 MIN, 20 MAX	2 MIN, 8 MAX	1 MIN, 13 MAX
30	1 MIN, 12 MAX	1 MIN, 20 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
36	1 MIN, 12 MAX	1 MIN, 20 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
42	1 MIN, 12 MAX	1 MIN, 20 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
48	1 MIN, 12 MAX	1 MIN, 19 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
54	1 MIN, 12 MAX	1 MIN, 19 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
60	1 MIN, 12 MAX	1 MIN, 19 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
72	1 MIN, 11 MAX	1 MIN, 19 MAX	1 MIN, 7 MAX	1 MIN, 13 MAX

FILL HEIGHT TABLE BASE ON:
1. γ_s = 120 PCF (BACKFILL LOAD)
2. AASHTO HL–93 LIVE LOAD
3. POSITIVE PROJECTING EMBANKMENT CONDITION (THIS GIVES CONSERVATIVE RESULTS IN COMPARISON TO TRENCH CONDITIONS)
4. PIPE = REINFORCED CONCRETE PIPE MEETING ASTM C76 (AASHTO M170), WALL C THICKNESS
5. CONCRETE PIPE SHOULD BE INSTALLED IN ACCORDANCE WITH AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS SECTION 27 OR ASTM C1479.

[a] FILL HEIGHT TABLES, THE PORTION EXCERPTED HERE, WAS DEVELOPED BY THE AMERICAN CONCRETE PIPE ASSOCIATION (ACPA) USING THE INDIRECT DESIGN METHOD IN ACCORDANCE WITH SECTION 12.10.4.3 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATION, 4TH, 2007 WITH 2008 INTERIM.

NOTES:
1. GREATER BURY DEPTHS THAN THOSE SHOWN ABOVE ARE ACHIEVABLE BY EITHER USING TYPE 1 OR 2 INSTALLATION, USING CLASS V PIPE, CONTROLLING BACKFILL TYPE, CALCULATING DEPTH USING A TRENCH CONDITION, OR BY SPECIAL DESIGN. SEE ALSO DESIGN DATA 9 PUBLISHED BY THE ACPA FOR DESIGN METHODOLOGY.
2. IN LIEU OF CALCULATING BURY DEPTH FOR OTHER CONDITIONS, FIRST SEE "LRFD FILL HEIGHT TABLES FOR CONCRETE PIPE", LAST REVISED JULY 2009 OR LATER), PREPARED BY THE ACPA FOR OTHER BURY DEPTH POSSIBILITIES

STORM DRAIN PIPE INSTALLATION

3 OF 3

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\AWH\AWH-20000\04-Production\Engineering\CD PKG 3\Current Drawing\AWH20000-CD-Pkg-03-D1.dwg, 5/1/2024 2:48:49 PM, Tommy Dabolt

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The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
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ASHTON RALEIGH RESIDENTIAL, LLC.
900 RIDGEFIELD DRIVE, SUITE 335
RALEIGH, NORTH CAROLINA 27609
PHONE: 919. 422. 7663
CONTACT: BOB MISHLER

ASHTON WOODS

THE POINT
PHASES 8 AND 14
CONSTRUCTION DRAWINGS - PACKAGE 3
EAST YOUNG STREET
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP, WAKE COUNTY, NORTH CAROLINA

CID-24-01

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.05.01 14:53:28-04'00'

REVISIONS

NO.	DATE	
1	03. 01. 2024	RESPOND TO MUNICIPAL COMMENTS
2	05. 01. 2024	RESPOND TO MUNICIPAL COMMENTS

PLAN INFORMATION

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-03-D1
CHECKED BY	.
DRAWN BY	TKD
SCALE	N.T.S.
DATE	12. 13. 2023

SHEET

STORM DRAINAGE DETAILS

C8.03