# DOWNTOWN NORTH AT KNIGHTDALE STATION

N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

## EARLY GRADING

PHASE 2

PROJECT NUMBER: AGN-21002

DATE: NOVEMBER 13, 2023

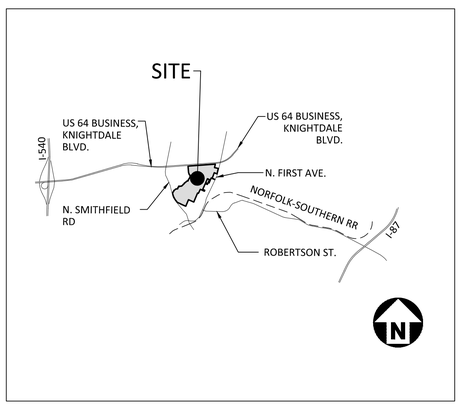
CASE NUMBER: 791148
ZMA-13-22
ORDINANCE #: 23-01-18-003

| | |
|---|---|
| PHASE NUMBER | PHASE 2 |
| NUMBER OF TOTAL RESIDENTIAL LOTS | 168 |
| OPEN SPACE? | YES |
| NUMBER OF OPEN SPACE LOTS | 6 |
| 3" PUBLIC WATER (LF) | 0 LF |
| 6" PUBLIC WATER (LF) | 1454 LF |
| 8" PUBLIC WATER (LF) | 6200 LF |
| 12" PUBLIC WATER (LF) | 1705 LF |
| 8" PUBLIC SEWER (LF) | 6781 LF |
| PUBLIC STREET (LF)* | 8665 LF |
| 5' SIDEWALK (LF) | 1972 LF |
| 6' SIDEWALK (LF) | 8031 LF |
| 8' SIDEWALK (LF) | 2437 LF |
| 10' SIDEWALK (LF) | 1096 LF |
| CURB AND GUTTER (LF) | 22922 LF |
| PUBLIC STORM DRAINAGE | 9945 LF |
| STREET SIGNS | 97 |
| WATER CONNECTIONS | 175 |
| SEWER CONNECTIONS | 169 |
| PUBLIC GREENWAY TRAIL (LF) | 0 LF |

* INCLUDES PUBLIC ALLEYS

DIMENSIONAL STANDARDS
NMX DISTRICT

| | | | |
|---|---|---|---|
| LOT WIDTH | PROPOSED (PER PUD) | SINGLE FAMILY: | 30' |
| | | TOWNHOME: | 18' |
| HEIGHT | PROPOSED (PER PUD) | 60' (SEE PUD DOCUMENT FOR EXCEPTIONS) | |
| | | STORIES: | 4 |
| SETBACKS (SINGLE FAMILY) | PROPOSED (PER PUD) | MIN. TO RIGHT OF WAY | |
| | | FRONT PORCH/STOOP: | 5' |
| | | FRONT PRIMARY STRUCTURE: | 10' |
| | | FRONT EAVES: | N/A |
| | | MIN. TO OPEN SPACE | |
| | | FRONT PORCH/STOOP: | 0' |
| | | FRONT PRIMARY STRUCTURE: | 3' |
| | | FRONT EAVES: | N/A |
| | | MIN. CORNER SIDE | |
| | | TO PORCH/STOOP: | 5' |
| | | TO PRIMARY STRUCTURE: | 5' |
| | | TO EAVES: | N/A |
| | | MIN. SIDE | |
| | | TO PORCH/STOOP: | 3' |
| | | TO PRIMARY STRUCTURE: | 3' |
| | | TO EAVES: | N/A |
| | | MIN. REAR | |
| | | TO GARAGE FROM CURB: | 7' (PARALLEL) |
| | | TO GARAGE FROM CURB: | 18' (90°) |
| SETBACKS (TOWNHOMES) | PROPOSED (PER PUD) | MIN. TO RIGHT OF WAY | |
| | | FRONT PORCH/STOOP: | 5' |
| | | FRONT PRIMARY STRUCTURE: | 10' |
| | | FRONT EAVES: | N/A |
| | | MIN. TO OPEN SPACE | |
| | | FRONT PORCH/STOOP: | 0' |
| | | FRONT PRIMARY STRUCTURE: | 3' |
| | | FRONT EAVES: | N/A |
| | | MIN. CORNER SIDE | |
| | | TO PORCH/STOOP: | 3' |
| | | TO PRIMARY STRUCTURE: | 5' |
| | | TO EAVES: | N/A |
| | | MIN. SIDE | |
| | | INTERIOR UNIT: | 0' |
| | | END UNITS: | |
| | | FRONT PORCH/STOOP: | 0' |
| | | SEPARATION BETWEEN PORCHES/STOOPS: | 6' |
| | | TO PRIMARY STRUCTURE: | 0' |
| | | SEPARATION BETWEEN BUILDINGS: | 10' |
| | | TO EAVES: | N/A |
| | | MIN. REAR | |
| | | TO GARAGE FROM CURB: | 7' (PARALLEL) |
| | | TO GARAGE FROM CURB: | 18' (90°) |
| SETBACKS (2 OVER 2 CONDOS) | PROPOSED (PER PUD) | SEE PUD DOCUMENT FOR STANDARDS | |
| | | THE STANDARDS OF THE UDO SHALL APPLY EXCEPT: THE FRONT MAXIMUM SETBACK SHALL NOT BE APPLIED WHERE PUBLIC GATHERING SPACE IS PROVIDED BETWEEN THE FRONT OF THE BUILDING AND THE FRONT OF THE LOT | |




## VICINITY MAP

1"=5000'

## ZONING CONDITIONS (ZMA-13-22)

1. RESIDENTIAL DRIVEWAYS SHALL BE A MINIMUM OF 18-FEET LONG.
2. TOWNHOME LOTS SHALL BE A MINIMUM OF 18-FEET WIDE.
3. REAR SETBACKS FOR ALL RESIDENTIAL LOTS SHALL BE A MINIMUM OF 18-FEET.
4. NO LANDSCAPED BUFFERS SHALL BE PROVIDED, HOWEVER ALLEY SCREENING SHALL BE PROVIDED AS INDICATED ON THE MASTER PLAN.
5. ALLEY SEPARATION MAY BE REDUCED TO AS LITTLE AS 50-FEET AS INDICATED ON THE MASTER PLAN.
6. THE RADIUS OF ALLEYS MAY BE REDUCED, AS INDICATED ON THE MASTER PLAN.
7. ARCHITECTURAL STANDARDS ARE PROVIDED FOR ALL BUILDING TYPES AS INDICATED IN THE PUD DOCUMENT.
8. THE APPLICANT AGREES THAT AN ELEMENT OF THE UTILITY ALLOCATION AND ANNEXATION AGREEMENT INCLUDE A PROVISION FOR FUTURE TOWN INVESTMENT. THIS INVESTMENT MAY INCLUDE, BUT IS NOT LIMITED TO, INFRASTRUCTURE, PARKING FACILITIES, STREETSCAPE ELEMENTS, STORMWATER CONTROL MEASURES, AND PUBLIC ART, CONSIDERATION FOR THIS INVESTMENT MAY INCLUDE, BUT IS NOT LIMITED TO, INCREASED DENSITY, EXPEDITED MIXED-USE PHASING SCHEDULES, ADDITIONAL STREETSCAPE ELEMENTS, TRANSPORTATION/TRANSIT IMPROVEMENTS AND INCREASED ARCHITECTURAL DESIGN/CONTROL. SHOULD THE TOWN CHOOSE NOT TO MAKE ANY SUCH INVESTMENT THIS CONDITION WILL NOT LIMIT OR DELAY THE DEVELOPMENT OF THE PROPERTY AS OUTLINED IN THE PLANNED UNIT DEVELOPMENT AND SUBJECT TO ALL OTHER ZONING CONDITIONS. NOTHING IN THIS CONDITION SHOULD OBLIGATE THE TOWN TO MAKE ANY SUCH INVESTMENT.
9. SHOULD THE DEVELOPER ACQUIRE ADDITIONAL LAND ADJACENT OR WITHIN A QUARTER MILE (.25) TO THE EXISTING PLANNED UNIT DEVELOPMENT ZONED HIGHWAY BUSINESS (HB) OR NEIGHBORHOOD MIXED-USE (NMX), THOSE PARCELS MAY BE INCORPORATED INTO THE DOWNTOWN NORTH PLANNED UNIT DEVELOPMENT SUBJECT TO A REZONING TO APPLY THE PLANNED UNIT DEVELOPMENT ONLY. THIS REZONING WILL NOT REQUIRE A SITE-SPECIFIC DEVELOPMENT PLAN OR ADDITIONAL STUDY UNTIL SUCH TIME THAT A SITE PLAN IS SUBMITTED FOR ADMINISTRATIVE APPROVAL. THE DEVELOPMENT OF THE PARCELS SHOULD BE SUBJECT TO SITE PLAN REVIEW IN ACCORDANCE WITH THE PLANNED UNIT DEVELOPMENT INCLUDING THE ALLOWABLE USES, DESIGN GUIDELINES, AND PRECEDENT IMAGERY OF THE TOWN CENTER DISTRICT'S GATEWAY SUBDISTRICT STANDARDS.

## CITY OF RALEIGH PUBLIC UTILITIES CONDITIONS OF APPROVAL:

1. A PETITION FOR ANNEXATION INTO THE CITY LIMITS SHALL BE SUBMITTED IN ACCORDANCE WITH CITY COUNCIL POLICY FOR EXTENSION OF UTILITY SERVICE TO PROPERTIES CURRENTLY OUTSIDE OF THE CITY LIMITS
2. CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT FOR ALL PUBLIC WATER, PUBLIC SEWER AND/OR PRIVATE SEWER EXTENSIONS PRIOR TO MAP RECORDATION.
3. A PLAT MUST BE RECORDED AT THE WAKE COUNTY REGISTER OF DEEDS OFFICE FOR ALL UTILITY EASEMENT DEDICATIONS
4. A DOWNSTREAM SEWER CAPACITY STUDY IN COMPLIANCE WITH CORPUD HANDBOOK SHALL BE SUBMITTED BY THE PROJECT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION DRAWINGS
5. THE DEVELOPER SHALL PROVIDE A LETTER OR E-MAIL FROM ANY PRIVATE UTILITY COMPANY AUTHORIZING NEW WATER AND SEWER MAIN ENCROACHMENTS ACROSS EXISTING TRANSMISSION EASEMENTS PRIOR TO CONCURRENT APPROVAL

## ATTENTION CONTRACTORS

The **Construction Contractor** responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the **Public Utilities Department** at **(919) 996-4540** at least **twenty four hours** prior to beginning any of their construction.

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

**Failure** to call for **Inspection, Install a Downstream Plug,** have **Permitted Plans** on the **Jobsite**, or any other **Violation** of **City of Raleigh Standards** will result in a **Fine and Possible Exclusion** from future work in the **City of Raleigh.**

## SITE DATA

| | | |
|---|---|---|
| PINS (PHASE 2) | 1754347479, 1754551095, 1754551285, 1754552480, 1754459742 | |
| SITE AREA (PHASE 2) | GROSS AREA: | 41.15 AC |
| | PUBLIC R/W DEDICATION: | 9.92 AC |
| | NET AREA: | 31.23 AC |
| EXISTING ZONING | PUD - NMX | |
| WATERSHED CLASSIFICATION | LOWER NEUSE RIVER | |
| RIVER BASIN | NEUSE | |
| FEMA DATA | FIRM PANEL #3720175400K, DATED 7/19/2022 | |
| EXISTING USE | VACANT | |
| PROPOSED USE (PHASE 2) | NMX - SINGLE FAMILY DETACHED, TOWNHOMES, APARTMENTS | |
| DENSITY (PHASE 2) | NMX<br>287 UNITS / 41.15 AC = 6.97 DU/AC<br>SINGLE FAMILY = 61 UNITS<br>TOWNHOMES = 96 UNITS<br>APARTMENTS = 130 UNITS | |
| PARKING (PHASE 2) | REQUIRED | 2/UNIT x 287 UNITS = 574 SPACES |
| | PROPOSED | 2/UNIT x 287 UNITS = 574 SPACES<br>ON-STREET: 219 SPACES |
| OPEN SPACE (PHASE 2) | REQUIRED | N/A PER PUD CONDITION |
| | PROPOSED | 4.69 ACRES W/ PHASE 2<br>*SEE SHEET C2.00 FOR OPEN SPACE PROGRAMMING TABLE |
| TREE SAVE (OVERALL DEVELOPMENT) | REQUIRED | 5% PER PUD CONDITION |
| | PROPOSED | 5% |
| CONNECTIVITY (OVERALL DEVELOPMENT) | REQUIRED | 1.5 (PUD-NMX) & 1.6 (PUD-TC) |
| | PROPOSED | 1.573 (107 LINKS/68 NODES) |

| | | | |
|---|---|---|---|
| ESTIMATED WASTEWATER FLOW RATES (15A NCAC 02T .0114) (PHASE 2) | SINGLE FAMILY HOMES | 35 (4 BEDROOM) UNITS X 300 GPD = 10,**500 GPD** |
| | | 26 (5 BEDROOM) UNITS X 375 GPD = **9,750 GPD** |
| | TOWNHOMES | 68 (3 BEDROOM) UNITS X 225 GPD = 1**5,300 GPD** |
| | | 28 (4 BEDROOM) UNITS X 300 GPD = **8,400 GPD** |
| | 2/2 CONDOS | 144 (3 BEDROOM) UNITS X 225 GPD = **32,400 GPD** |

TOTAL GPD = **76,350 GPD**

## WATER ALLOCATION POINTS

| | |
|---|---|
| REQUIRED POINTS | 50 POINTS (ALL PHASES) |
| PROPOSED POINTS | 79 POINTS (ALL PHASES)<br>(50 BASE POINTS (MIXED USE) + 29 BONUS POINTS) |
| ARCHITECTURAL DESIGN STANDARDS | 15 POINTS |
| ANY OTHER POOL (FUTURE AMENITY) | 1 POINT |
| ON-STREET PUBLIC PARKING | 4 POINTS |
| CLUBHOUSE (FUTURE AMENITY) | 5 POINTS |
| PUBLIC ART (FUTURE PHASE) | 4 POINTS |

CERTAIN ITEMS WITHIN THESE PLANS HAVE BEEN PRODUCED IN COLOR FOR CLARITY OF THE PLANS. THESE PLANS MUST BE PLOTTED IN COLOR TO BE VALID.

## SHEET INDEX


| | |
|---|---|
| C1.00 | EXISTING CONDTIONS |
| C1.01 | EXISTING CONDITIONS |
| C6.39 | EROSION CONTROL PLAN NOTES |
| C6.40 | OVERALL EROSION CONTROL PLAN-EARLY STAGE 1 |
| C6.41 | EROSION CONTROL PLAN-AREA E-STAGE 1 |
| C6.42 | EROSION CONTROL PLAN-AREA F-STAGE 1 |
| C6.43 | EROSION CONTROL PLAN-AREA G-STAGE 1 |
| C6.44 | EROSION CONTROL PLAN-AREA H-STAGE 1 |
| C6.45 | EROSION CONTROL PLAN-AREA I-STAGE 1 |
| C6.47 | EROSION CONTROL PLAN-AREA K-STAGE 1 |
| C6.48 | EROSION CONTROL PLAN-AREA L-STAGE 1 |
| C6.50 | EROSION CONTROL PLAN-AREA N-STAGE 1 |
| C6.60 | OVERALL EROSION CONTROL PLAN-STAGE 2 |
| C6.61 | EROSION CONTROL PLAN-AREA E-STAGE 2 |
| C6.62 | EROSION CONTROL PLAN-AREA F-STAGE 2 |
| C6.63 | EROSION CONTROL PLAN-AREA G-STAGE 2 |
| C6.64 | EROSION CONTROL PLAN-AREA H-STAGE 2 |
| C6.65 | EROSION CONTROL PLAN-AREA I-STAGE 2 |
| C6.67 | EROSION CONTROL PLAN-AREA K-STAGE 2 |
| C6.68 | EROSION CONTROL PLAN-AREA L-STAGE 2 |
| C6.70 | EROSION CONTROL PLAN-AREA N-STAGE 2 |
| C6.80 | OVERALL EROSION CONTROL PLAN-STAGE 3 |
| C6.81 | EROSION CONTROL PLAN-AREA E-STAGE 3 |
| C6.82 | EROSION CONTROL PLAN-AREA F-STAGE 3 |
| C6.83 | EROSION CONTROL PLAN-AREA G-STAGE 3 |
| C6.84 | EROSION CONTROL PLAN-AREA H-STAGE 3 |
| C6.85 | EROSION CONTROL PLAN-AREA I-STAGE 3 |
| C6.87 | EROSION CONTROL PLAN-AREA K-STAGE 3 |
| C6.88 | EROSION CONTROL PLAN-AREA L-STAGE 3 |
| C6.90 | EROSION CONTROL PLAN-AREA N-STAGE 3 |
| C6.100 | OVERALL EROSION CONTROL PLAN-STAGE 4 |
| C6.101 | EROSION CONTROL PLAN-AREA E-STAGE 4 |
| C6.102 | EROSION CONTROL PLAN-AREA F-STAGE 4 |
| C6.103 | EROSION CONTROL PLAN-AREA G-STAGE 4 |
| C6.104 | EROSION CONTROL PLAN-AREA H-STAGE 4 |
| C6.105 | EROSION CONTROL PLAN-AREA I-STAGE 4 |
| C6.107 | EROSION CONTROL PLAN-AREA K-STAGE 4 |
| C6.108 | EROSION CONTROL PLAN-AREA L-STAGE 4 |
| C6.110 | EROSION CONTROL PLAN-AREA N-STAGE 4 |
| C6.111 | EROSION CONTROL DETAILS |
| C6.112 | EROSION CONTROL DETAILS |
| C6.113 | EROSION CONTROL DETAILS - NCG01 |


## 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 # S-_____

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 # W-_____

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

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All Construction must be in accordance with all Local, State, and Federal Rules and Regulations.

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

Professional Design Engineer Certification. These improvements shall be constructed in accordance with the following drawings and with the Standard Specifications of the Town of Knightdale.
I, _____, PE, certify that the Standard Specifications of the Town of Knightdale have been thoroughly checked and found to be applicable to this project. All exceptions to the applicable Town standards have been previously approved by the Town of Knightdale and said exceptions are shown on Sheet(s) _____ of these drawings.
Seal By: _____, PE
Date: _____

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Approved Standards Shall Control. In the event of a conflict or inconsistency between these construction drawings and the Town of Knightdale's Approved Standards for this project, the Approved Standards shall control. Town of Knightdale Approved Standards shall mean all development documents necessary for approval for the Property including, but not limited to, any special use permit, subdivision plan, site plan, subdivision plat(s), phasing schedule, Development Agreement, Utility Allocation Agreement, Annexation Agreement, the Town of Knightdale Standard Specification and Details Manual and applicable provisions of the North Carolina State Building Code.

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

TYLER PROBST
probst@mcadamsco.com
PHONE: 919. 287. 0844

**CLIENT**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC BROKERAGE | CONSULTING | PLANNING

**PROJECT DIRECTORY**

JPM SOUTH DEVELOPMENT
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JOHN MYERS
PHONE: 919. 306. 3330

JPM South DEVELOPMENT


NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 051536 TYLER E. PROBST
PRELIMINARY

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**CONSTRUCTION DRAWINGS FOR:**
DOWNTOWN NORTH AT KNIGHTDALE STATION - PHASE 2
N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA
PROJECT NUMBER: AGN-21002


M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Set\Phase 2\AGN21002-P2-EC-CS1.dwg, 11/10/2023 4:35:45 PM, Megan Clifford

## EROSION CONTROL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF KNIGHTDALE, AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE KNIGHTDALE 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 KNIGHTDALE 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 TOWN OF KNIGHTDALE EROSION CONTROL DEPARTMENT OR THE DWQ.
5. 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.
6. 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.
7. THE EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL FIELD MEASURES AS NECESSARY TO PROVIDE ADEQUATE PROTECTION FROM RECEIVING WATER COURSES.
8. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR SHALL CALL FOR AN INSPECTION BY TOWN OF KNIGHTDALE PUBLIC WORKS FOR ALL SEDIMENTATION AND EROSION CONTROL (SEC) PERMITTING/INSPECTIONS, (919) 217-2255 ONCE INITIAL MEASURES ARE IN PLACE. (SEE CONSTRUCTION SEQUENCES)
9. CONTRACTOR SHALL INSPECT AND REPAIR ALL SEDIMENT/EROSION CONTROL DEVICES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL EVENT. GRADING ACTIVITY SHALL BE PROHIBITED IN THE AREAS OF THE SEDIMENT CONTROL DEVICES/SEDIMENT TRAPS UNTIL THE AREAS UPSTREAM OF THESE DEVICES HAVE BEEN STABILIZED AND APPROVED. ALL SKIMMER BASINS SHALL BE DE-SILTED AFTER THE END OF EVERY MAJOR RAIN EVENT.
10. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
11. CONSTRUCTION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GRADING CONTRACTOR UNLESS OTHERWISE NOTED.
12. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE TOWN/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
13. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE TOWN/COUNTY ENGINEERING DEPARTMENT AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
14. 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.
15. CONSTRUCTION SEQUENCES 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.
16. 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.
17. CONTRACTOR WILL FIELD LOCATE SILT FENCE OUTLETS AT LOW POINTS IN SILT FENCE AS REQUIRED TO PROVIDE RELIEF FROM CONCENTRATED FLOWS.
18. 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.
19. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER AND 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.
20. 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.
21. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE OPEN ACCESS TO ALL PROPERTIES ALONG ADJACENT PROPERTIES DURING CONSTRUCTION PERIOD FOR IMPROVEMENTS.
22. 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 THE CONTRACTOR RESPONSIBLE FOR EXCAVATION.
23. 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 THE SUBSTITUTION OF ALTERNATIVE EQUIPMENT.
24. EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THEIR ORIGINAL CONDITION OR TO THE SATISFACTION OF THE OWNER BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
25. SOIL UNDER BUILDINGS AND PAVED AREAS SHALL BE COMPACTED TO STANDARD PROCTOR 98% MAXIMUM DRY DENSITY OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
26. 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.
27. CONTRACTOR SHALL NOTIFY NC 811 AT 811 OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR TO CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF NC 811. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
28. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES FOR ANY REQUIRED RELOCATION (I.E., POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
29. EXISTING UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
30. PRIOR TO STARTING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE GRADING CONTRACTOR, ENGINEER, CONSTRUCTION INSPECTOR & OWNER.
31. LIMITATION TO THE EXPOSED AREA IS REQUIRED ON THIS PROJECT, NO MORE THAN APPROXIMATELY 80 ACRES SHOULD BE BARE AT ANY TIME. THIS ROLLING ACREAGE CAN BE MANAGED WITH GROUNDCOVER ESTABLISHMENT.
32. COMPLETED AREA SHOULD BE STABILIZED IN ACCORDANCE WITH THE STABILIZATION TIMETABLE IDENTIFIED ON THE NCG01 GROUND STABILIZATION AND MATERIALS HANDLING PLAN SHEET.

## PERMITTING AND ENVIRONMENTAL REGULATIONS NOTES

1. ESC PERMITTING AND INSPECTIONS:
   A. ONCE THE EROSION AND SEDIMENT CONTROL (ESC) PLAN HAS BEEN REVIEWED AND ACCEPTED BY THE TOWN OF KNIGHTDALE (TOK), A FORMAL PLAN APPROVAL LETTER WILL BE ISSUED TO THE FRP AND APPLICANTS. NOTE: AN ESC APPROVAL LETTER DOES NOT INDICATE PERMIT ISSUANCE.
   B. AN NCG01 CERTIFICATE OF COVERAGE MUST BE OBTAINED FROM THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCDEQ). THE PERMIT CAN BE OBTAINED BY FILLING OUT THE ELECTRONIC NOTICE OF INTENT (E-NOI) FORM AT DEQ.NC.GOV/NCG01. PLEASE NOTE, THE E-NOI FORM MAY ONLY BE COMPLETED ONCE ESC PLANS HAVE BEEN APPROVED (A).
   C. THE TOWN OF KNIGHTDALE STORMWATER DEPARTMENT REQUIRES AN ON-SITE PRECONSTRUCTION (PRECON) MEETING PRIOR TO ISSUING A DEVELOPMENT PERMIT. THIS MEETING IS AN OPPORTUNITY TO GO OVER SITE MANAGEMENT EXPECTATIONS AND DISCUSS ANY PROJECT CONCERNS.
   D. ONCE THE PRECON MEETING HAS BEEN HELD AND ALL FEES PAID, THE LAND DEVELOPMENT PERMIT (LDP) WILL BE ISSUED FOR THE PROJECT.
   E. FOLLOWING SITE MOBILIZATION, ROUTINE "CONSTRUCTION SITE INSPECTIONS" BY TOK STAFF WILL OCCUR AS OUTLINED IN THE TOK EROSION AND SEDIMENT CONTROL ENFORCEMENT TREE. TO NOTE, "COMPLIANT/SATISFACTORY" INSPECTIONS WILL NEED TO OCCUR FOLLOWING:
      I. INSTALLATION OF INITIAL ESC PERIMETER CONTROLS (SF, SF/TP, SFOS) ONLY CLEARING THE PERIMETER RIBBON (25' MAX) - "PERIMETER CONTROL INSPECTION".
      II.INSTALLATION OF ALL PHASE 1 ESC MEASURES INCLUDING ENGINEERED STRUCTURES - "CERTIFICATE OF COMPLANCE INSPECTION".
      III. IT IS THE RESPONSIBILITY OF THE SITE MANAGER TO FORMALLY REQUEST THESE TYPES OF INSPECTIONS BY CONTACTING TOK PUBLIC WORKS. CLEARING/GRUBBING OUTSIDE OF THE LIMITED AREAS REQUIRED TO COMPLETE THE ABOVE ITEMS WILL RESULT IN ENFORCEMENT ACTION BY THE TOK.
   F. FOLLOWING THE COMPLETION OF THE ITEMS ABOVE - THE SITE CAN BE CLEARED AND DEVELOPED IN ACCORDANCE WITH THE APPROVED PLAN.
2. PERMITS BOX CONTENTS - A COPY OF THE TOK LAND DEVELOPMENT PERMIT, THE NCG01 CERTIFICATE OF COVERAGE (COC) AND REGULAR NPDES INSPECTIONS, A COPY OF THE APPROVED/REVISED ESC PLAN, AND (WHEN OBTAINED) THE TOK CERTIFICATE OF COMPLIANCE - MUST BE KEPT ON SITE, PREFERABLY IN A PERMITS BOX, AND ACCESSIBLE DURING INSPECTION. LOCATE A RAIN GAUGE ON SITE FOR FACILITATION OF INSPECTIONS AND RECORD KEEPING.
3. 401/404 PERMITS - APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL PLAN DOES NOT AUTHORIZE IMPACTS TO WETLANDS, COASTAL MARSH, STREAMS, OR OTHER WATERS OF THE STATE OR UNITED STATES OR SUPERSEDE ANY OTHER PERMITTING REQUIREMENT OF ANY FEDERAL, STATE OR LOCAL AGENCY.
   A. IF APPLICABLE, PROVIDE A COPY OF THE USACE 404 PERMIT AND DWR 401 CERTIFICATIONS. PROVIDE A COPY OF THE DWR BUFFER AUTHORIZATION.
      I. SUBMIT DOCUMENTATION WITH MAPS SHOWING LOCATION AND EXTENT OF IMPACTS TO STREAMS AND WETLANDS WITH ANY SPECIAL CONDITIONS PERTAINING TO EROSION AND SEDIMENT CONTROL AND RESTORATION OF AFFECTED AREAS.
      II.IDENTIFY THE STREAMS, WETLANDS, AND BUFFERS ON THE PLAN SHEETS. INCLUDE ANY ADDITIONAL MEASURES, CONSTRUCTION SPECIFICATIONS, MAINTENANCE REQUIREMENTS AND CONSTRUCTION SEQUENCING AS REQUIRED BY THE 404/401/BUFFER DETERMINATION AND BUFFER AUTHORIZATION ON THE PLAN SHEETS.
      III.FOLLOW ALL CONDITIONS OUTLINED IN THE CERTICATIONS, SPECIFICALLY REPORTING ANY DISCHARGES OUTSIDE OF THE PERMITTED SCOPE OF WORK.
4. AREAS OF ENVIRONMENTAL CONCERN AND CULTURAL RESOURCES – BEFORE ANY SITE WORK OCCURS ADEQUATELY IDENTIFY KEY ENVIRONMENTAL AND/OR CULTURAL RESOURCES BY USING APPROPRIATE IDENTIFIERS IN THE FIELD (TREE PROTECTION FENCING, FLAGGING, ETC.).
5. FILL/BORROW - ANY OFF-SITE BORROW AND/OR FILL REQUIRED FOR THIS PROJECT MUST COME FROM A SITE WITH AN APPROVED EROSION CONTROL PLAN, A SITE REGULATED UNDER THE MINING ACT OF 1971, OR A LANDFILL REGULATED BY THE DIVISION OF SOLID WASTE MANAGEMENT. TRASH/DEBRIS FROM DEMOLITION ACTIVITIES OR GENERATED BY ANY ACTIVITIES ON SITE MUST BE DISPOSED OF AT A FACILITY REGULATED BY THE DIVISION OF SOLID WASTE MANAGEMENT OR PER DIVISION OF SOLID WASTE MANAGEMENT OR DIVISION OF WATER RESOURCES RULES AND REGULATIONS.

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC-N1.dwg, 11/10/2023 4:09:40 PM, Megan Clifford

## MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL MEASURES AS DESIGNED.
2. 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. MAINTENANCE AND/OR CLEAN OUT, IS NECESSARY ANYTIME THE DEVICE IS AT 50% CAPACITY. ALL SEDIMENT STORAGE MEASURES WILL REMAIN ON SITE AND FUNCTIONAL UNTIL ALL GRADING AND FINAL LANDSCAPING OF THE PROJECT IS COMPLETE.
5. DIVERSION DITCHES MUST REMAIN IN PLACE UNTIL PROJECT IS STABILIZED.
6. MUD AND DEBRIS MUST BE KEPT OFF OF EXISTING PORTIONS OF ANY EXISTING PAVED ROAD AND/OR PRIVATE DRIVEWAY AT ALL TIMES. IF MUD AND DEBRIS IS TRACKED FROM THE SITE, IT MUST BE REMOVED IMMEDIATELY. FAILURE TO FOLLOW THIS PROCEDURE MAY RESULT IN PUNITIVE ACTION BEING TAKEN, INCLUDING A STOP WORK ORDER AND/OR REVOKING THE GRADING PERMIT.
7. GRADED SLOPES AND FILLS ARE TO BE PLANTED OR PROVIDED WITH PROTECTIVE COVER SUFFICIENT TO RESTRAIN EROSION AFTER THE COMPLETION OF ANY PHASE OF GRADING. ALL AREAS UPON WHICH NO FURTHER LAND DISTURBING ACTIVITY WILL BE UNDERTAKEN ARE TO BE PLANTED OR PROVIDED WITH PROTECTIVE COVER WITHIN 14 WORKING DAYS.
8. 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.
9. IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE(BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY TOWN OF KNIGHTDALE OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.
10. THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
11. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

## STAGE 1 SPECIFIC CONSTRUCTION SEQUENCE

1. SCHEDULE AN INITIAL PRE-CONSTRUCTION CONFERENCE WITH THE TOWN OF KNIGHTDALE. OBTAIN LAND-DISTURBANCE PERMIT.
2. INSTALL ALL PERIMETER CONTROLS AS SHOWN ON THE APPROVED PLANS, CLEARING ONLY AS NEEDED TO INSTALL PERIMETER CONTROL (MAXIMUM 25FT FOR SF/TPF)
3. SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING WITH THE TOWN OF KNIGHTDALE TO INSPECT THE INSTALLED PERIMETER CONTROLS.
4. UPON APPROVAL, PROCEED WITH THE INSTALLATION OF GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASIN OR OTHER MEASURES AS SHOWN ON THE APPROVED PLANS. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSION, BERMS, AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
5. CONTRACTOR TO INSTALL RISER STRUCTURES AND OUTLET BARRELS FOR RISER BASINS B AND C (RB-B, RB-C) AS SHOWN AS WELL AS GRADING RB-B, RB-C AND TEMPORARY SEDIMENT BASINS (SB-3, SB-4) AS SHOWN. (ALL ORIFICES OTHER THAN DRAWDOWN PIPE ON THE PERMANENT RISER STRUCTURES SHALL BE PLUGGED THROUGHOUT THE REMAINDER OF EROSION CONTROL STAGES UNTIL PERMANENT SCM CONVERSION).
6. THERE SHALL BE NO IMPACT TO THE RIPARIAN BUFFERS OFFSITE PROPERTIES OR OVERHEAD UTILITY EASEMENTS ABOVE WHAT IS SHOWN ON APPROVED PLAN. SEE PLANS FOR LIMITS OF DISTURBANCE AND SILT FENCING AREAS.
7. CALL TOWN OF KNIGHTDALE EROSION CONTROL INSPECTOR TO SCHEDULE AN ON-SITE INSPECTION AND OBTAIN A CERTIFICATE OF COMPLIANCE.
8. CONTINUE TO MAINTAIN RB-B, RB-C, SB-3 AND SB-4 THROUGHOUT STAGES 1-3. SEE STAGE 2-3 SEQUENCE FOR THE CONTINUED MAINTENANCE OF RB-B, RB-C, SB-3 AND SB-4 AS REMAINDER OF THE SITE IS BROUGHT UP TO FINAL GRADE.

## STAGE 2 SPECIFIC CONSTRUCTION SEQUENCE

1. CLEAR AND GRUB REMAINDER OF SITE AND BEGIN EARTHWORK ACTIVITY.
2. AS THE SITE IS BROUGHT UP TO GRADE, CONTRACTOR SHALL RAISE AND/OR RELOCATE DIVERSION DITCHES AS NECESSARY TO MAINTAIN A POSITIVE SEDIMENT LADEN FLOW TO SEDIMENT BASINS (RB-B, RB-C, SB-3, SB-4).
3. ALL EXISTING SURROUNDING PROPERTIES NEED TO BE PROVIDED WITH AND MAINTAINED ACCESS THROUGHOUT CONSTRUCTION OR UNTIL ALTERNATIVE MEASURES OF ACCESS ARE IN PLACE.
4. MAINTAIN EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RAIN EVENT THROUGHOUT CONSTRUCTION.
5. UPON AREAS BEING BROUGHT TO FINAL GRADE, DISTURBED AREA SHOULD BE SEEDED/STABILIZED PER CHART ON THIS SHEET.
6. CALL TOWN OF KNIGHTDALE EROSION CONTROL INSPECTOR TO SCHEDULE AN ON-SITE INSPECTION AND OBTAIN A CERTIFICATE OF COMPLIANCE.

## STAGE 3 SPECIFIC CONSTRUCTION SEQUENCE

1. PRIOR TO COMMENCING STAGE 3 CONSTRUCTION, OBTAIN NECESSARY ENCROACHMENT AGREEMENTS FROM DUKE ENERGY TO GRADE WITHIN THE OVERHEAD UTILITY EASEMENT ON-SITE, OBTAIN ALL OFFSITE TEMPORARY CONSTRUCTION EASEMENTS AND 401/404 PERMITS.
2. ONCE ABOVE LISTED ITEMS ARE OBTAINED, LIMITS OF DISTURBANCE CAN BE REVISED ALONG WITH SILT FENCING AND TREE PROTECTION FENCING WITHIN THE OVERHEAD UTILITY EASEMENT, OFFSITE TEMPORARY CONSTRUCTION EASEMENTS AND ALONG STREAM AS SHOWN ON STAGE 3.
3. ONCE ADDITIONAL SILT FENCING IS IN PLACE, CONTRACTOR TO ESTABLISH FINAL GRADE INSIDE OVERHEAD UTILITY EASEMENT AND OFFSITE TEMPORARY CONSTRUCTION EASEMENTS AND STABILIZE THESE AREAS IMMEDIATELY.
4. CONTINUE TO MAINTAIN SEDIMENT BASINS THROUGHOUT STAGE 3 (RB-B, RB-C, SB-3, SB-4) AS NEEDED.
5. BEGIN TO BRING REMAINING AREAS ON-SITE TO FINAL GRADE PER THE PLANS.
6. AS SITE IS BROUGHT TO FINAL GRADE, ALL RETAINING WALLS ARE TO BE INSTALLED PER RETAINING WALL DRAWINGS. EROSION CONTROL DEVICES MUST BE INSTALLED ALONG THE TOP OF RETAINING WALLS DURING THE EROSION CONTROL STAGE 3.
7. BEGIN TO INSTALL MAIN TRUCK LINES OF STORMWATER CONVEYANCE SYSTEM, SANITARY SEWER, AND WATERLINE.
8. INSTALL INLET PROTECTION AT EACH INLET THAT IS NOT BLOCKED FROM ACCEPTING RUNOFF. MAINTAIN INLET PROTECTION WEEKLY OR AFTER HEAVY RAIN EVENTS, ALONG WITH ALL TEMPORARY DIVERSION DITCHES THROUGHOUT THE SITE.
9. AS SITE IS BROUGHT TO GRADE, ALL AREAS NEED TO BE STABILIZED AND MAINTAINED.
10. ONCE ALL AREAS HAVE BEEN STABILIZED, CALL THE TOWN OF KNIGHTDALE EROSION CONTROL INSPECTOR TO SCHEDULE AN ON-SITE INSPECTION AND OBTAIN A CERTIFICATE OF COMPLIANCE.

## STAGE 4 SPECIFIC CONSTRUCTION SEQUENCE

1. ONCE FINAL GRADES OF SITE HAVE BEEN ACHIEVED, AREAS MUST BE STABILIZED PER CHART ON THIS SHEET.
2. PRIOR TO THE REMOVAL OF ANY/ALL EROSION CONTROL DEVICES, THE CONTRACTOR IS TO CALL THE TOWN OF KNIGHTDALE EROSION CONTROL INSPECTOR AND SCHEDULE AN ON-SITE INSPECTOR AND OBTAIN A CERTIFICATE OF COMPLIANCE.
3. UPON APPROVAL FROM TOWN OF KNIGHTDALE, CONVERT RB-B AND RB-C TO PERMANENT STORMWATER CONTROL MEASURES PER CONSTRUCTION DRAWING DETAILS.
4. SITE STABILIZATION IS REQUIRED PRIOR TO FINAL APPROVAL OF GRADING PERMIT. GRASS UTILIZED AS PERMANENT GROUND COVER MUST BE AT A MOVEABLE HEIGHT THAT GENERALLY PROVIDES AT LEAST 80% COVERAGE THROUGHOUT THE SITE, WITH NO LARGE PATCHES OR EVIDENCE OF EROSION.

## REQUIRED TOWN OF KNIGHTDALE SCM BASIN CONVERSION SEQUENCE

1. SCHEDULE A SITE MEETING WITH THE TOWN OF KNIGHTDALE EROSION CONTROL INSPECTOR 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. CONTACT NCDEQ - RALEIGH REGIONAL OFFICE (919) 791-4200 TO DETERMINE THE DIVISION OF ENERGY, MINERAL AND LAND RESOURCES CONTACT PERSON TO RECEIVE DEWATERING NOTIFICATIONS. AT LEAST 10 DAYS PRIOR TO BEGINNING DEWATERING ACTIVITY, SEND EMAIL TO NCDEQ-DEMLR CONTACT PERSON AND COPY ENVIRONMENTAL CONSULTANT THAT MET YOU ONSITE. THE EMAIL SHOULD INCLUDE E&SC JURISDICTION: WAKE COUNTY, WAKE COUNTY PROJECT: NAME, NUMBER, AND LOCATION (CITY/TOWN), ENVIRONMENTAL CONSULTANT NAME, AND ADDRESS THE FOLLOWING: A) REASON FOR CONVERSION, B) BASIN #, C) DEWATERING METHOD, AND D) ALL OTHER NECESSARY INFO FROM PART II, SECTION G, ITEM 4 OF THE NCG01. (KEEP EMAIL FOR YOUR NPDES MONITORING DOCUMENTATION
3. AFTER RECEIVING POSITIVE CONFIRMATION FROM NCDEQ-DEMLR THAT YOU MAY REMOVE THE BASIN OR ON > DAY 11, WHICHEVER IS SOONER. REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF 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 ANCHOR ANY RESULTING BARE AREAS IMMEDIATELY USING NON-CLUMPING TURF GRASS (CENTIPEDE / HYBRID BERMUDA)
5. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
6. WHEN SITE IS FULLY STABILIZED, CALL EROSION CONTROL INSPECTOR 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 EROSION CONTROL INSPECTOR AND STORMWATER TECHNICIAN TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE.

| TEMPORARY RISER BASIN DESIGN TABLE | | | | |
|---|---|---|---|---|
| SEDIMENT TRAP ID | RB–B | RB–C | SB–3 | SB–4 |
| Drainage Area (AC.) | 12.57 | 12.90 | 10.53 | 1.25 |
| Disturbed Area (AC.) | 12.05 | 11.30 | 7.45 | 1.25 |
| Flow Q10 (CFS) | 38.8 | 39.2 | 29.8 | 4.1 |
| Bottom Elevation (FT) | 305 | 302 | 321 | 323 |
| Sediment Depth (FT) | 3.25 | 4.5 | 2.5 | 3.0 |
| Freeboard (from Sediment Depth) | 2.5 | 2.5 | 1.5 | 1.0 |
| Depth to Crest of Weir (FT) | 3.25 | 4.5 | 2.5 | 3.0 |
| Depth to Crest of Emergency Spillway (FT) | 3.25' (308.25 TOP CREST OF WEIR) | 4.5' (306.50 TOP CREST OF RISER) | 2.5' (323.50 TOP CREST OF EMERGENCY SPILLWAY) | 3.0' (325.00 TOP CREST OF EMERGENCY SPILLWAY) |
| Side Slopes | 3:0H1V | 3:0H1V | 3.0H:1V | 3.0H:1V |
| Spillway Length (FT) | 6 | 24 | 30 | 20 |
| Height of Berm (FT) (Top of dam to bottom of basin) | 6.0' @ 311.00 | 7.0' @ 309.00 | 4.0' @ 325.00 | 4.0' @ 327.00 |
| Top of Trap Length (FT) | 255 | 527 | 181 | 100 |
| Top of Trap Width (FT) | 131 | 142 | 84 | 62 |
| Storage Volume Required ($FT^3$) | 21690 | 20340 | 13410 | 2250 |
| Storage Volume Prov'd. ($FT^3$) | 77950 | 215430 | 30580 | 8560 |
| Sediment Surface Area Req'd ($FT^2$) | 16870 | 17050 | 12950 | 1770 |
| Sediment Surface Area Prov'd ($FT^2$) | 27310 | 47248 | 13273 | 2819 |
| Number of Skimmers | 1 | 1 | 1 | 1 |
| Skimmer Size (IN) | 3.00 | 3.00 | 2.50 | 2.00 |
| Skimmer Orifice Size (IN) | 2.60 | 2.50 | 2.10 | 0.90 |
| Draw–down Time (days) | 3 | 3 | 3 | 3 |

NOTE: RISER STRUCTURES WILL NEED TO BE IN PLACE PRIOR TO ISSUING COC, AND AUTHORIZATION FOR CLEARING/GRUBBING THE REST OF THE SITE.

STAGE 1 AND STAGE 2 DISTURBED AREA: 37.10 AC.
ADDITIONAL STAGE 3 AND STAGE 4 DISTURBED AREA: 4.20 AC.
TOTAL PHASE 2 DISTURBED AREA: 41.30 AC.

| GROUND STABILIZATION | | |
|---|---|---|
| SITE AREA DESCRIPTION | STABILIZATION TIME FRAME | STABILIZATION TIME FRAME EXCEPTIONS |
| PERIMETER DIKES, SWALES, DITCHES AND SLOPES | 7 DAYS | NONE |
| HIGH QUALITY WATER (HQW) ZONES | 7 DAYS | NONE |
| SLOPES STEEPER THAN 3:1 | 7 DAYS | IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED |
| SLOPES 3:1 OR FLATTER | 14 DAYS | 7–DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH |
| ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1 | 14 DAYS | NONE (EXCEPT FOR PERIMETERS AND HQW ZONES) |

## STOCKPILING NOTES

THE TEMPORARY STOCKPILING OF MATERIALS IS PERMITTED SUBJECT TO THE FOLLOWING STANDARDS:

1. THE STOCKPILED MATERIAL SHALL NOT EXCEED 25 FEET IN HEIGHT ABOVE THE ORIGINAL NATURAL GRADE.
2. THE FOOTPRINT OF THE STOCKPILING AREA SHALL BE LOCATED AT LEAST 25 FEET FROM ADJOINING PROPERTY LINES.
3. THE SIDE SLOPE OF THE STOCKPILED MATERIALS SHALL NOT EXCEED A 3:1 RATIO.
4. STOCKPILED MATERIALS SHALL BE LIMITED TO DIRT, FILL, AND/OR GRAVEL.
5. STOCKPILED MATERIALS SHALL BE SEEDED OR COVERED WITH TARPS OR MULCH. TARPS SHALL BE KEYED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
6. ANY CONCENTRATED FLOW LIKELY TO AFFECT THE STOCKPILE SHALL BE DIVERTED TO AN APPROVED BMP.
7. IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY TOWN OF KNIGHTDALE OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.
8. THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
9. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL)

## TEMPORARY AND PERMANENT SEEDING NOTES

1. TEMPORARY SEEDING: MUST PLANT OR OTHERWISE PROVIDE A TEMPORARY COVER SUFFICIENT TO RESTRAIN EROSION AFTER ANY GRADED AREA REMAINS UNDISTURBED, AS ILLUSTRATED ON THE NPDES GROUND STABILIZATION TABLE THIS SHEET.
2. PERMANENT SEEDING: MUST PLANT OR OTHERWISE PROVIDE A PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION UPON COMPLETION OF CONSTRUCTION OR DEVELOPMENT IN A TIMEFRAME COMPLIANT WITH THE NPDES GROUND STABILIZATION GUIDELINES.

## SEEDBED PREPARATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO SIX INCHES DEEP.
3. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL.
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX 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 MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. CONSULT ENVIRONMENTAL CONSULTANTS ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: ____________________ Date: _____________
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: ____________________ Date: _____________
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC
BROKERAGE | CONSULTING | PLANNING

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
### KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST
PRELIMINARY NOT FOR CONSTRUCTION

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

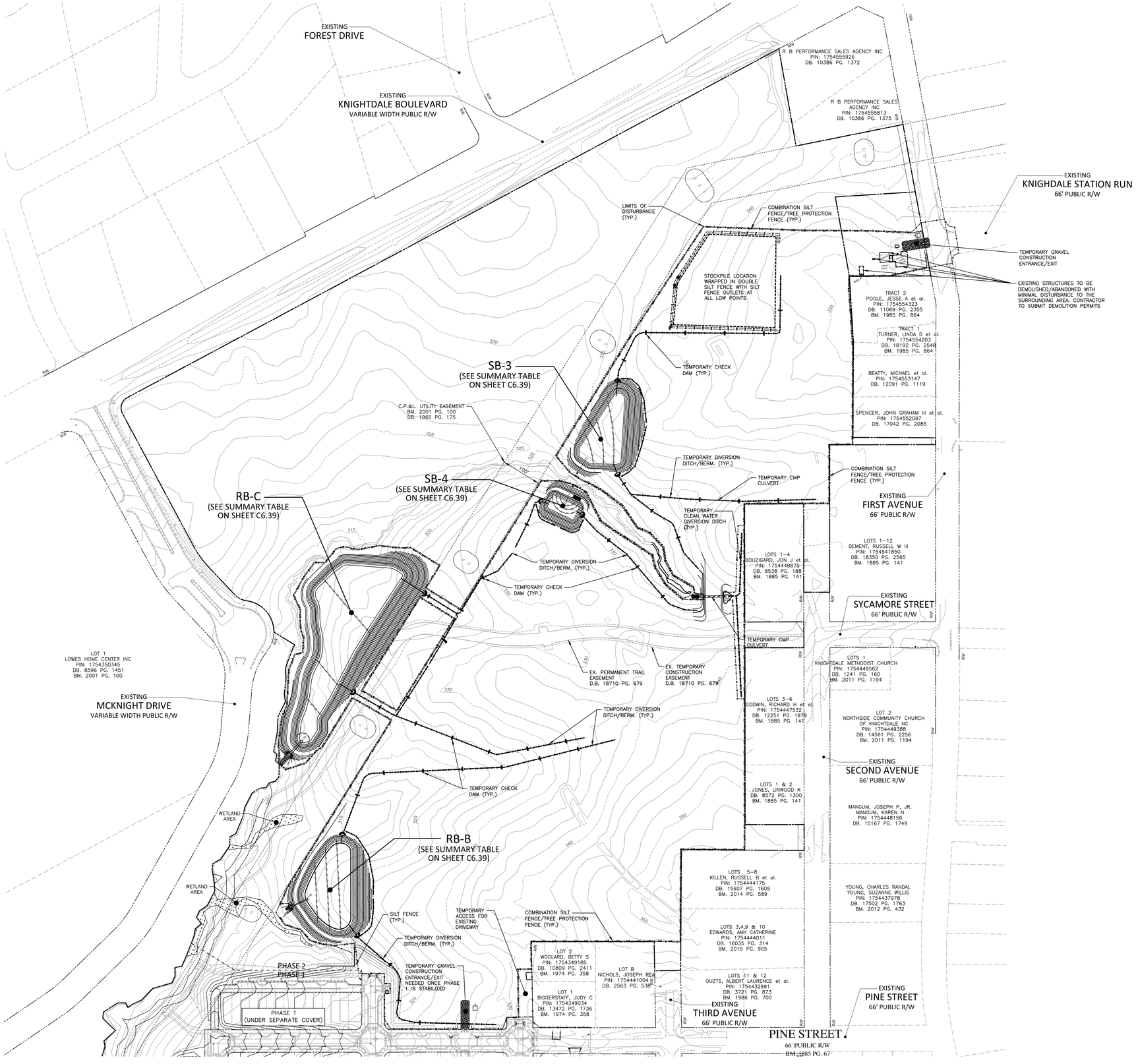
**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC-N1 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | N.T.S. |
| DATE | 11. 13. 2023 |

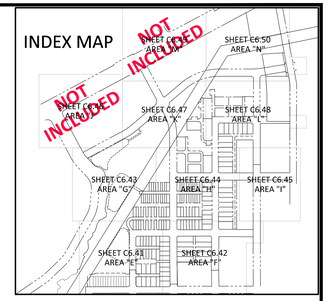
**SHEET**

**EROSION CONTROL NOTES**

# C6.39




INDEX MAP




## 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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
### N SMITHFIELD ROAD
### KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 051536 TYLER E. PROSSER — NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 60 120 240
1 inch = 120 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-OAEC1 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1"=120' |
| DATE | 11. 13. 2023 |

**SHEET**

## OVERALL EROSION CONTROL PLAN - STAGE 1

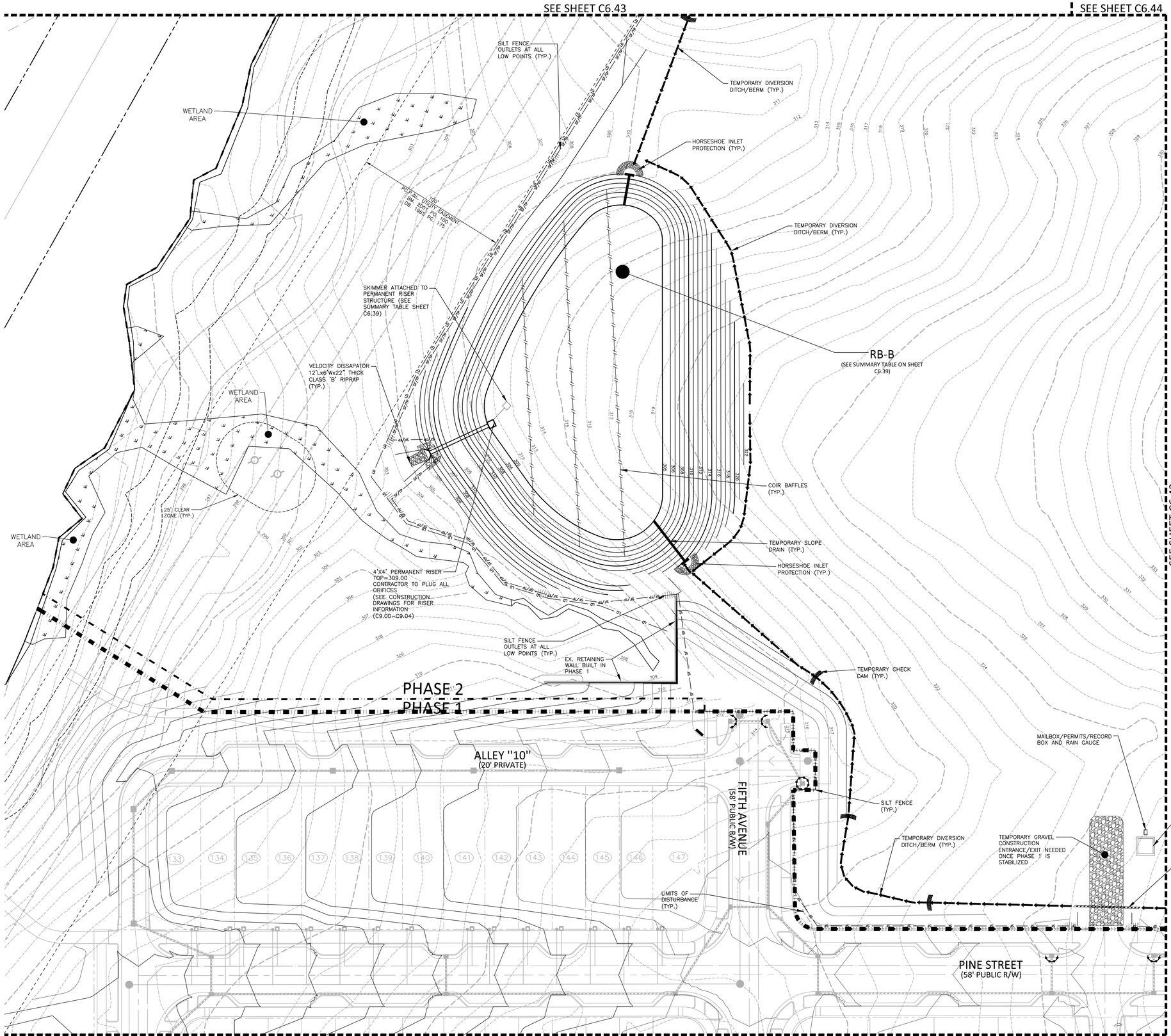
# C6.40

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase 2\AGN21002-P2-OAEC1.dwg, 11/10/2023 4:10:06 PM, Megan Clifford

SEE SHEET C6.43

SEE SHEET C6.44

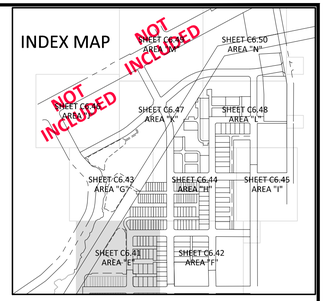
SEE SHEET C6.42




SEE SHEET C6.11 (UNDER SEPARATE COVER)

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

## INDEX MAP




## 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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator


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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST
NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

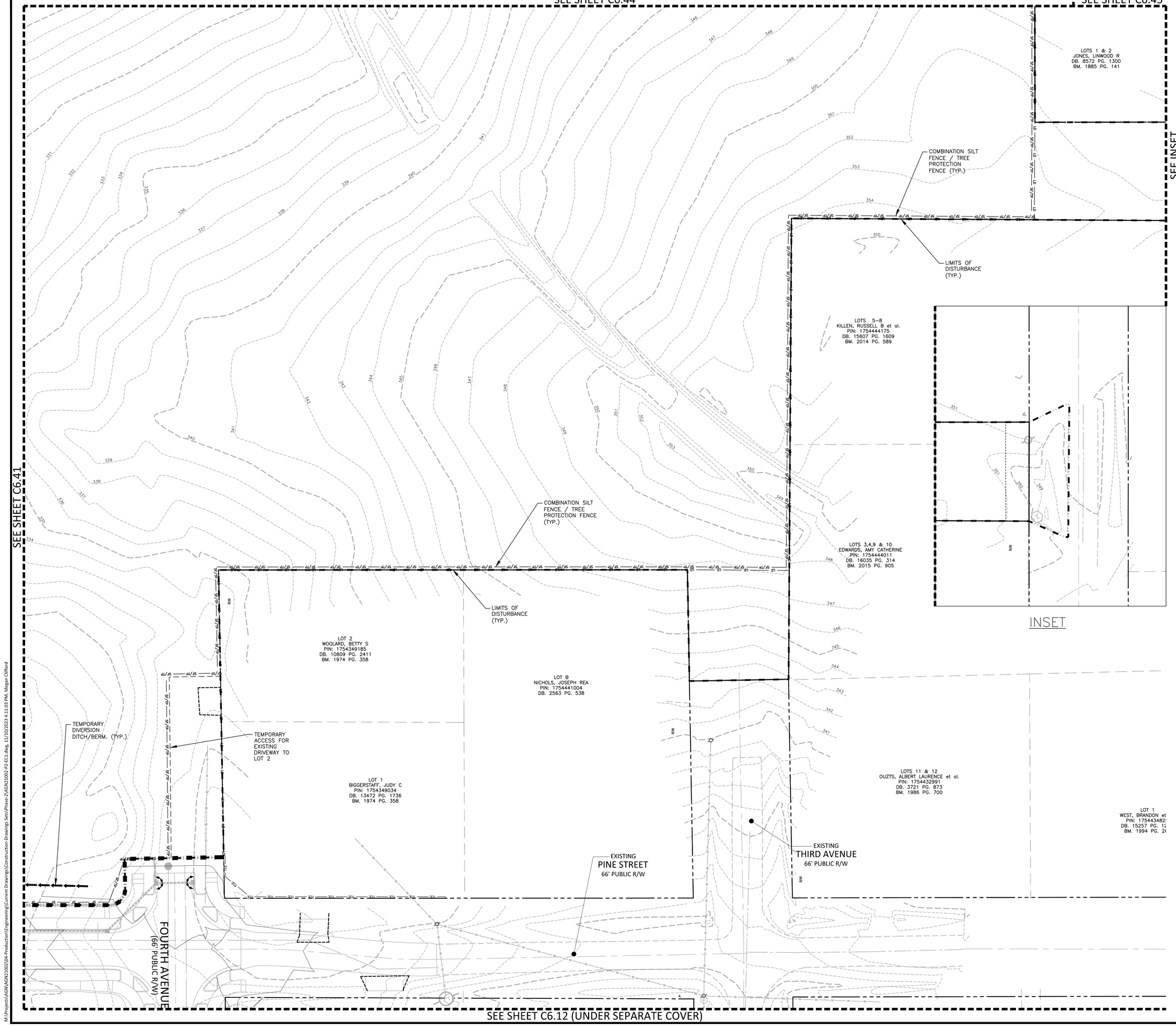
| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC1 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

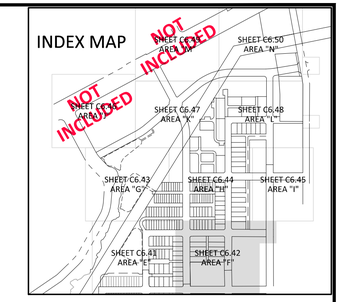
**SHEET**

## EROSION CONTROL PLAN - AREA "E" - STAGE 1

# C6.41

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC1.dwg, 11/10/2023 4:10:46 PM, Megan Clifford




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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST
NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC1 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

**EROSION CONTROL PLAN - AREA "F" - STAGE 1**

# C6.42

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC1.dwg, 11/10/2023 4:11:03 PM, Megan Clifford

SEE SHEET C6.46

SEE SHEET C6.47

SEE SHEET C6.44

SEE SHEET C6.41

FUTURE PHASE
PHASE 2

RB-C
(SEE SUMMARY TABLE ON SHEET C6.39)

EXISTING
MCKNIGHT DRIVE
VARIABLE WIDTH PUBLIC R/W

COMBINATION SILT FENCE / TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

25' CLEAR ZONE (TYP.)

TEMPORARY SLOPE DRAIN (TYP.)

COIR BAFFLES (TYP.)

HORSESHOE INLET PROTECTION (TYP.)

PROPOSED 100' UTILITY EASEMENT D.B. 19845 PG. 1201 D.B. 19845 PG. 1251

TEMPORARY DIVERSION DITCH/BERM (TYP.)

TEMPORARY CHECK DAM (TYP.)

SKIMMER ATTACHED TO PERMANENT RISER STRUCTURE (SEE SUMMARY TABLE SHEET C6.39)

6'X6' PERMANENT RISER STRUCTURE
TOP OF RISER @ 306.50
CONTRACTOR TO PLUG ALL ORIFICES (SEE CD PLANS FOR DETAILS C9.05–C9.09)

EX. POWER POLES PROTECT AS REQUIRED

VELOCITY DISSIPATOR
NCDOT CLASS '1' RIPRAP
32'L X 12'W X 22" THICK

EX. PERMANENT TRAIL EASEMENT D.B. 18710 PG. 679

EX. TEMPORARY CONSTRUCTION EASEMENT D.B. 18710 PG. 679

TRAIL NOT YET CONSTRUCTED BY TOWN OF KNIGHTDALE

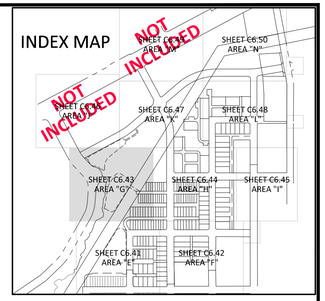
SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

INDEX MAP




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


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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST
NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC1 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

## EROSION CONTROL PLAN - AREA "G" - STAGE 1

# C6.43

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase 2\AGN21002-P2-EC1.dwg, 11/10/2023 4:11:13 PM, Megan Clifford

SEE SHEET C6.47

SEE SHEET C6.48

SEE SHEET C6.43

SEE SHEET C6.45

SEE SHEET C6.41

SEE SHEET C6.42

PC AT ALT. UTILITY EASEMENT
DB. 2001 PG. 1965
PC 1750
PC 1751

100' UTILITY EASEMENT

25' CLEAR ZONE (TYP.)

25'

TEMPORARY DIVERSION DITCH/BERM (TYP.)

TEMPORARY CHECK DAM (TYP.)

EX. POWER POLES PROTECT AS REQUIRED

TEMPORARY DIVERSION DITCH/BERM (TYP.)

TOP OF CREEK (TYP.)

DOUBLE SILT FENCE SURROUNDING CREEK

VELOCITY DISSIPATOR 18'LX9W'X22" THICK CLASS B RIPRAP

TEMPORARY DIVERSION DITCH/BERM (TYP.)

SILT FENCE OUTLETS TO BE INSTALLED AT ALL LOW POINTS (TYP.)

LIMITS OF DISTURBANCE (TYP.)

INV=327.25

INV=326.50

CONTRACTOR TO TEMPORARILY INSTALL 75 LF – 36" CMP DRIVE CULVERT TO MAINTAIN POSIITVE FLOW IN CLEAN WATER DITCH AS SITE IS BROUGHT TO GRADE

TEMPORARY CLEAN WATER BYPASS DIVERSION DITCH TO BE LINED WITH ERONET C125 MATTING (OR MATTING APPROVED EQUAL)

TRAIL NOT YET CONSTRUCTED BY TOWN OF KNIGHTDALE

EX. PERMANENT TRAIL EASEMENT D.B. 18710 PG. 679

EX. TEMPORARY CONSTRUCTION EASEMENT D.B. 18710 PG. 679

COMBINATION SILT FENCE/TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

TEMPORARY CHECK DAM (TYP.)

TEMPORARY DIVERSION DITCH/BERM (TYP.)

INDEX MAP

NOT INCLUDED

NOT INCLUDED

SHEET C6.50 AREA "N"

SHEET C6.49 AREA "M"

SHEET C6.47 AREA "K"

SHEET C6.48 AREA "L"

SHEET C6.43 AREA "G"

SHEET C6.44 AREA "H"

SHEET C6.45 AREA "I"

SHEET C6.41 AREA "E"

SHEET C6.42 AREA "F"

## 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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROJECT
NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC1 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

## EROSION CONTROL PLAN - AREA "H" - STAGE 1

# C6.44

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawing Sets\Phase-2\AGN21002-P2-EC1.dwg, 11/10/2023 4:11:22 PM, Megan Clifford

SEE SHEET C6.48

SEE SHEET C6.43

SEE SHEET C6.42

LOTS 1–4
BOUZIGARD, JON J et al.
PIN: 1754448875
DB. 8538 PG. 188
BM. 1885 PG. 141

LOTS 1–12
DEMENT, RUSSELL W III
PIN: 1754541850
DB. 18350 PG. 2565
BM. 1885 PG. 141

EXISTING
FIRST AVENUE
60' PUBLIC R/W

EXISTING
SYCAMORE STREET
66' PUBLIC R/W

LOTS 1
KNIGHTDALE METHODIST CHURCH
PIN: 1754449562
DB. 1241 PG. 160
BM. 2011 PG. 1194

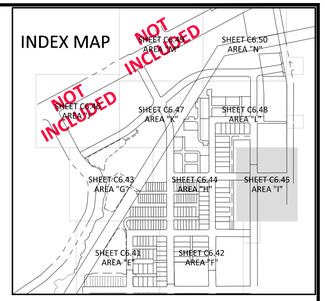
EXISTING
SECOND AVENUE
66' PUBLIC R/W

LOTS 3–6
GODWIN, RICHARD H et al.
PIN: 1754447532
DB. 12251 PG. 1979
BM. 1885 PG. 141

LOT 2
NORTHSIDE COMMUNITY CHURCH
OF KNIGHTDALE NC
PIN: 1754449388
DB. 14561 PG. 2256
BM. 2011 PG. 1194

RW

INDEX MAP




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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST
NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

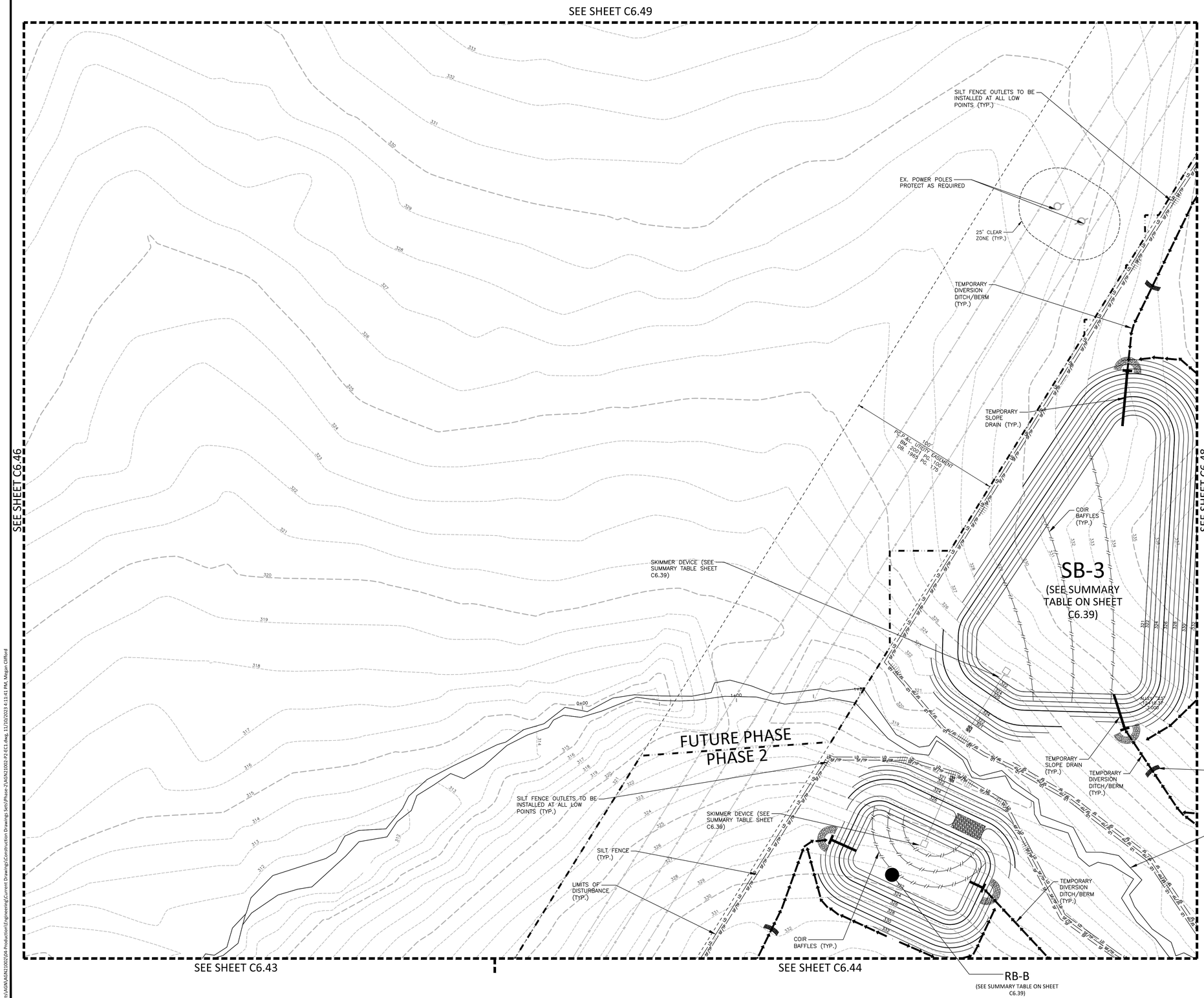
| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC1 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

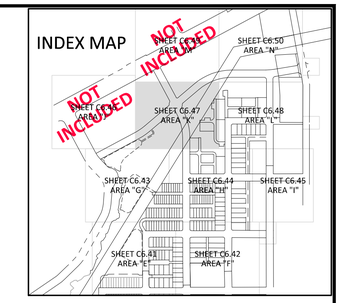
**SHEET**

**EROSION CONTROL PLAN - AREA "I" - STAGE 1**

**C6.45**

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase 2\AGN21002-P2-EC1.dwg, 11/10/2023 4:11:32 PM, Megan Clifford




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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST
NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC1 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

**EROSION CONTROL PLAN - AREA "K" - STAGE 1**

# C6.47

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC1.dwg, 11/10/2023 4:11:41 PM, Megan Clifford

SEE SHEET C6.50

SILT FENCE OUTLETS TO BE INSTALLED AT ALL LOW POINTS (TYP.)

LIMITS OF DISTURBANCE (TYP.)

APPROXIMATE LOCATION OF TEMPORARY STOCKPILE WRAPPED IN DOUBLE SILT FENCE WITH OUTLETS AT ALL LOW POINTS

FUTURE PHASE PHASE 2

TEMPORARY DIVERSION DITCH/BERM (TYP.)

TEMPORARY CHECK DAM(TYP.)

DOUBLE ROW SILT FENCE (TYP.)

TRACT 2
POOLE, JESSE A et al.
PIN: 1754554323
DB. 11069 PG. 2355
BM. 1985 PG. 864

TRACT 1
TURNER, LINDA D et al.
PIN: 1754554203
DB. 18192 PG. 2548
BM. 1985 PG. 864

BEATTY, MICHAEL et al.
PIN: 1754553147
DB. 12091 PG. 1119

SPENCER, JOHN GRAHAM III et al.
PIN: 1754552097
DB. 17042 PG. 2085

COMBINATION SILT FENCE/ TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

CONTRACTOR TO TEMPORARILY INSTALL 18" CMP DRIVE CULVERT TO MAINTAIN POSITIVE FLOW IN CLEAN WATER DITCH AS SITE IS BROUGHT TO GRADE

TEMPORARY DIVERSION DITCH/BERM (TYP.)

TEMPORARY CHECK DAM(TYP.)

LOTS 1–12
DEMENT, RUSSELL W III
PIN: 1754541850
DB. 18350 PG. 2565
BM. 1885 PG. 141

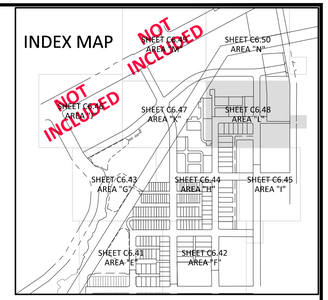
LOTS 1–4
BOUZIGARD, JON J et al.
PIN: 1754448875
DB. 8538 PG. 188
BM. 1885 PG. 141

SEE SHEET C6.47

SEE SHEET C6.44

SEE SHEET C6.45

INDEX MAP




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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
### N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 051536 TYLER E. PROBST — NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

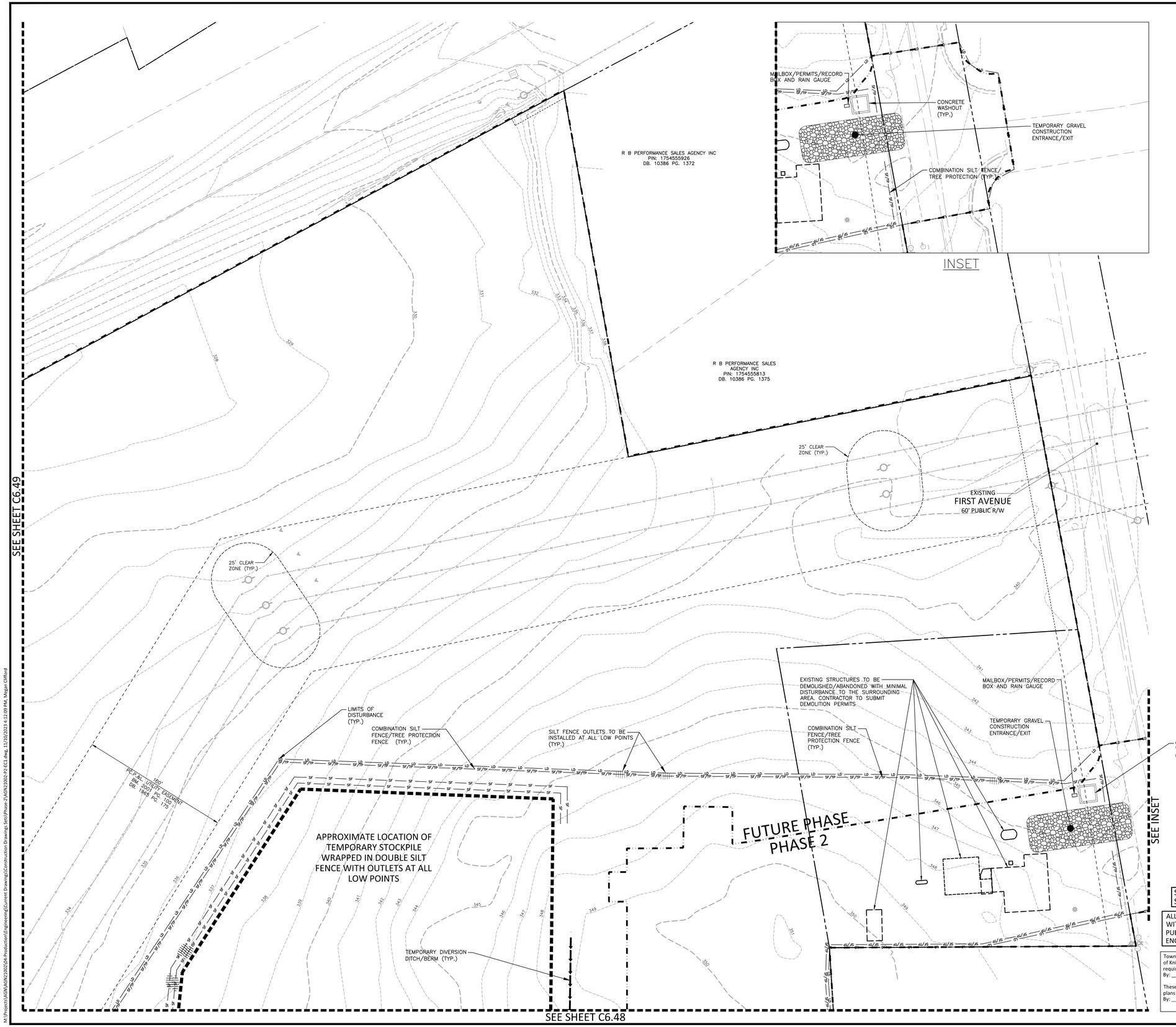
| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC1 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

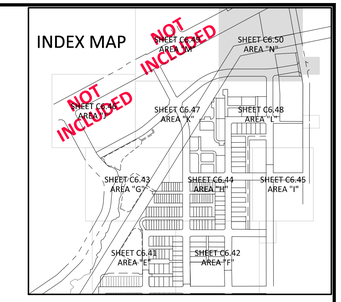
**SHEET**

**EROSION CONTROL PLAN - AREA "L" - STAGE 1**

**C6.48**

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC1.dwg, 11/10/2023 4:11:51 PM, Megan Clifford




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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST
NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

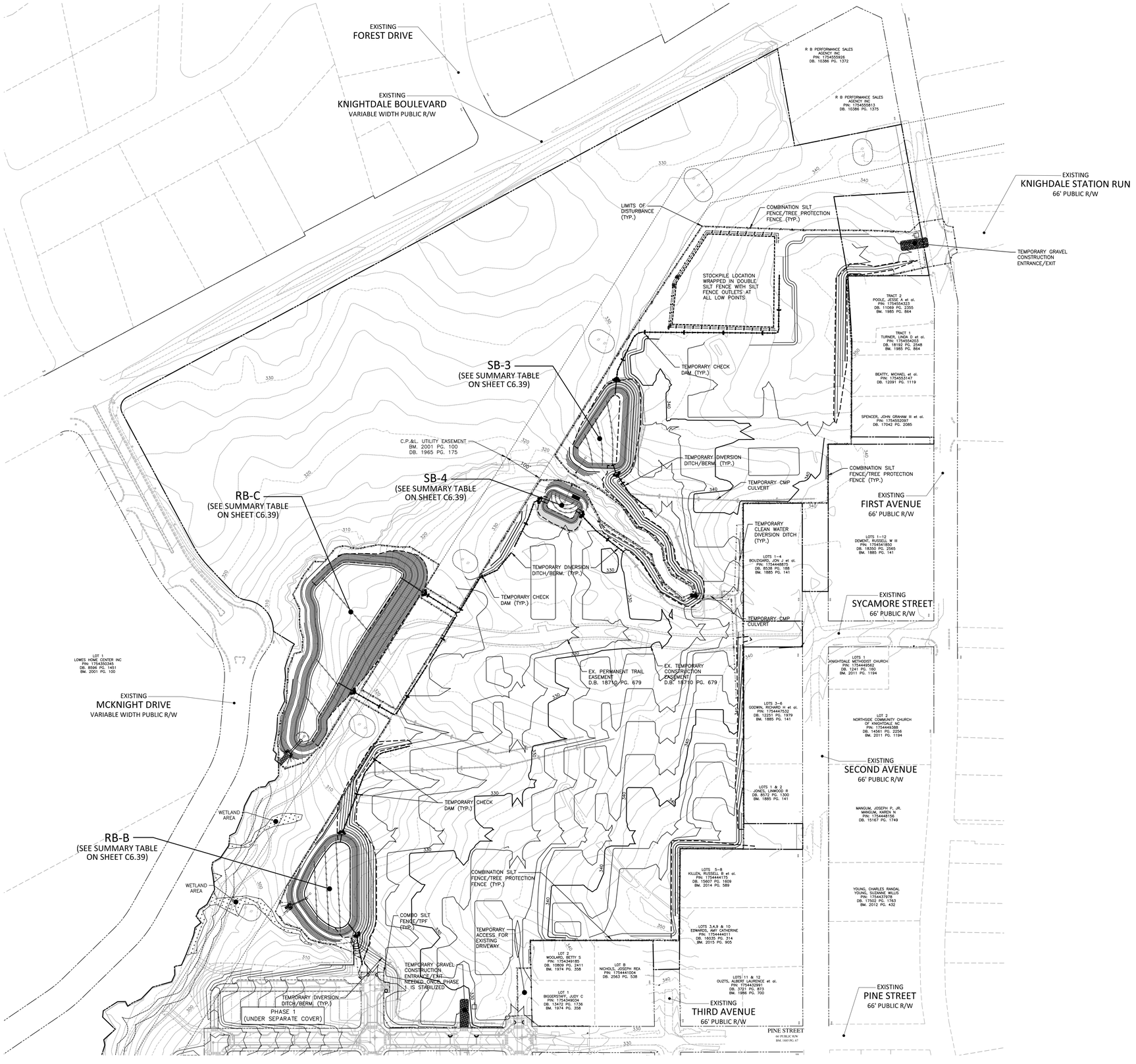
| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC1 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

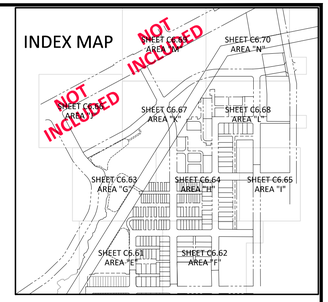
**SHEET**

**EROSION CONTROL PLAN - AREA "N" - STAGE 1**

# C6.50

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC1.dwg, 11/10/2023 4:12:09 PM, Megan Clifford




## 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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 051536 TYLER E. PROSSER — NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 60 120 240
1 inch = 120 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-OAEC2 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1"=120' |
| DATE | 11. 13. 2023 |

**SHEET**

**OVERALL EROSION CONTROL PLAN - STAGE 2**

# C6.60

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase 2\AGN21002-P2-OAEC2.dwg, 11/10/2023 4:12:38 PM, Megan Clifford

SEE SHEET C6.63

SEE SHEET C6.64

SEE SHEET C6.62

SILT FENCE OUTLETS AT ALL LOW POINTS (TYP.)

TEMPORARY CHECK DAM (TYP.)

TEMPORARY DIVERSION DITCH/BERM (TYP.)

STONE FILTER BERM

WETLAND AREA

100' DRIVE EASEMENT

RCP BL BK DB 2803 PG 1865

PC PC 100 175

SKIMMER ATTACHED TO PERMANENT RISER STRUCTURE (SEE SUMMARY TABLE SHEET C6.39)

RB-B
(SEE SUMMARY TABLE ON SHEET C6.39)

VELOCITY DISSAPATOR 12'Lx6'Wx22" THICK CLASS 'B' RIPRAP (TYP.)

WETLAND AREA

25' CLEAR ZONE (TYP.)

SEE GROUND STABILIZATION ON NOTES ON SHEET C6.39 FOR STEEPER SLOPES STABILIZATION

COIR BAFFLES (TYP.)

TEMPORARY SLOPE DRAIN (TYP.)

STONE FILTER BERM

TEMPORARY DIVERSION DITCH/BERM (TYP.)

WETLAND AREA

4'X4' PERMANENT RISER TOP=309.00
CONTRACTOR TO PLUG ALL ORIFICES DURING EC STAGES
(SEE CONSTRUCTION DRAWINGS FOR RISER INFORMATION (C9.00–C9.04)

SILT FENCE OUTLETS AT ALL LOW POINTS (TYP.)

EX. RETAINING WALL BUILT IN PHASE 1

PHASE 2
PHASE 1

ALLEY "10"
(20' PRIVATE)

FIFTH AVENUE
(58' PUBLIC R/W)

PINE STREET
(58' PUBLIC R/W)

MAILBOX/PERMITS/RECORD BOX AND RAIN GAUGE

SILT FENCE (TYP.)

CONCRETE WASHOUT (TYP.)

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT NEEDED ONCE PHASE 1 IS STABILIZED

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

SEE SHEET C6.21 (UNDER SEPARATE COVER)

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

INDEX MAP

NOT INCLUDED

NOT INCLUDED

SHEET C6.70 AREA "N"

SHEET C6.67 AREA "K"

SHEET C6.68 AREA "L"

SHEET C6.63 AREA "G"

SHEET C6.64 AREA "H"

SHEET C6.65 AREA "I"

SHEET C6.61 AREA "E"

SHEET C6.62 AREA "F"

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
- AREA TO BE STABILIZED UPON INSTALATION


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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC2 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

## EROSION CONTROL PLAN - AREA "E" - STAGE 2

# C6.61


M:\Projects\AGN\AGN21002\04-Production\1Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC2.dwg, 11/10/2023 4:13:20 PM, Megan Clifford

SEE SHEET C6.64

SEE SHEET C6.65

SEE INSET

SEE SHEET C6.61

SEE GROUND STABILIZATION ON NOTES ON SHEET C6.39 FOR STEEPER SLOPES STABILIZATION

COMBINATION SILT FENCE/TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

LOTS 1 & 2
JONES, LINWOOD R
DB. 8572 PG. 1300
BM. 1885 PG. 141

LOTS 5-8
KILLEN, RUSSELL B et al.
PIN: 1754444175
DB. 15607 PG. 1609
BM. 2014 PG. 589

LOTS 3,4,9 & 10
EDWARDS, AMY CATHERINE
PIN: 1754444011
DB. 16035 PG. 314
BM. 2015 PG. 905

SEE GROUND STABILIZATION ON NOTES ON SHEET C6.39 FOR STEEPER SLOPES STABILIZATION

COMBINATION SILT FENCE / TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

LOT 2
WOOLARD, BETTY S
PIN: 1754349185
DB. 10809 PG. 2411
BM. 1974 PG. 358

LOT B
NICHOLS, JOSEPH REA
PIN: 1754441004
DB. 2563 PG. 538

LOT 1
BIGGERSTAFF, JUDY C
PIN: 1754349034
DB. 13472 PG. 1736
BM. 1974 PG. 358

LOTS 11 & 12
OUZTS, ALBERT LAURENCE et ol.
PIN: 1754432991
DB. 3721 PG. 873
BM. 1986 PG. 700

LOT 1
WEST, BRANDON et
PIN: 175443482
DB. 15257 PG. 1
BM. 1994 PG. 2

TEMPORARY ACCESS FOR EXISTING DRIVEWAY FOR LOT 2

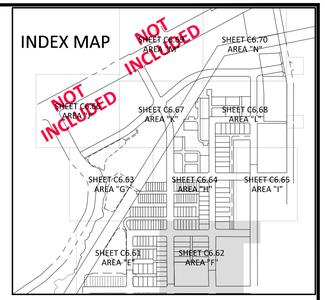
EXISTING
PINE STREET
66' PUBLIC R/W

EXISTING
THIRD AVENUE
66' PUBLIC R/W

INSET

SEE SHEET C6.22 (UNDER SEPARATE COVER)

INDEX MAP




## 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
- AREA TO BE STABILIZED UPON INSTALATION

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROSET
NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC2 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

## EROSION CONTROL PLAN - AREA "F" - STAGE 2

# C6.62

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase 2\AGN21002-P2-EC2.dwg, 11/10/2023 4:13:36 PM, Megan Clifford

SEE SHEET C6.63

SEE SHEET C6.64

FUTURE PHASE
PHASE 2

RB-C
(SEE SUMMARY TABLE ON SHEET C6.39)

COMBINATION SILT FENCE / TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

25' CLEAR ZONE (TYP.)

TEMPORARY SLOPE DRAIN (TYP.)

SEE GROUND STABILIZATION ON NOTES ON SHEET C6.39 FOR STEEPER SLOPES STABILIZATION

COIR BAFFLES (TYP.)

TEMPORARY SLOPE DRAIN (TYP.)

PC P.R. = 324.00
BM 200
DB 1965

100' UTILITY EASEMENT
PC 120
PT 175

COMBINATION SILT FENCE / TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

TEMPORARY DIVERSION DITCH/BERM (TYP.)

TEMPORARY CHECK DAM (TYP.)

COMBINATION SILT FENCE / TREE PROTECTION FENCE (TYP.)

25' CLEAR ZONE (TYP.)

SEE GROUND STABILIZATION ON NOTES ON SHEET C6.39 FOR STEEPER SLOPES STABILIZATION

EX. POWER POLES PROTECT AS REQUIRED

LIMITS OF DISTURBANCE (TYP.)

TEMPORARY DIVERSION DITCH/BERM (TYP.)

SKIMMER ATTACHED TO PERMANENT RISER STRUCTURE (SEE SUMMARY TABLE SHEET C6.39)

6'X6' PERMANENT RISER STRUCTURE
TOP OF RISER @ 306.50
CONTRACTOR TO PLUG ALL ORIFICES (SEE CD PLANS FOR DETAILS C9.05–C9.09)

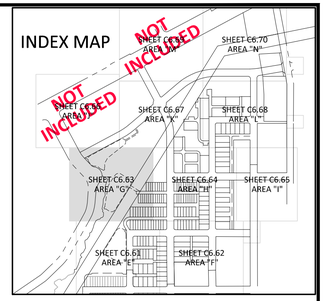
VELOCITY DISSIPATOR
NCDOT CLASS 'I' RIPRAP
32'L X 12'W X 22" THICK

EXISTING
MCKNIGHT DRIVE
VARIABLE WIDTH PUBLIC R/W

SEE SHEET C6.64

SEE SHEET C6.61

## INDEX MAP




## 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
- AREA TO BE STABILIZED UPON INSTALATION

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST
ELECTRONIC COPY NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC2 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

## EROSION CONTROL PLAN - AREA "G" - STAGE 2

# C6.63

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase 2\AGN21002-P2-EC2.dwg, 11/10/2023 4:13:45 PM, Megan Clifford

SEE SHEET C6.67

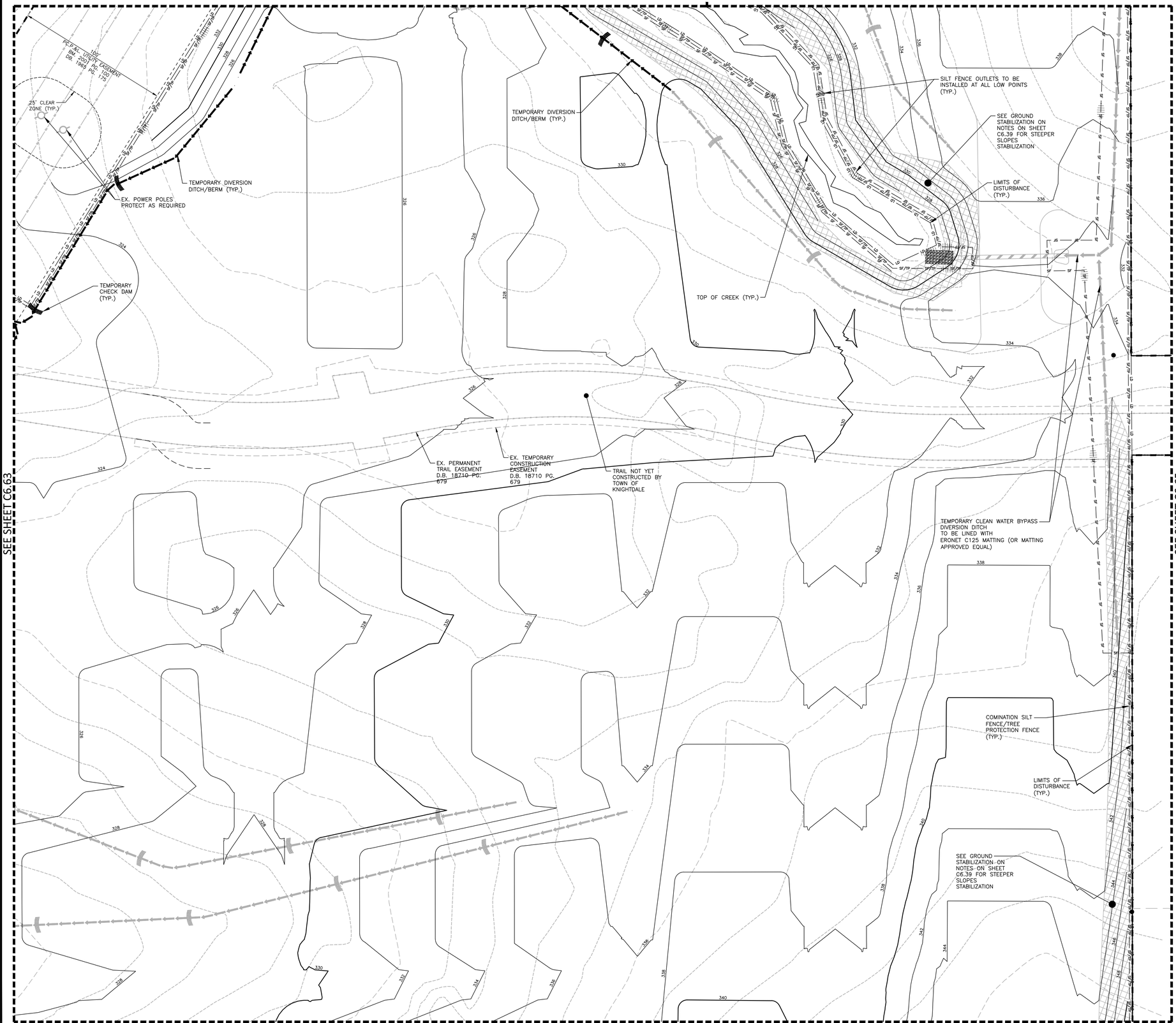
SEE SHEET C6.68

SEE SHEET C6.63

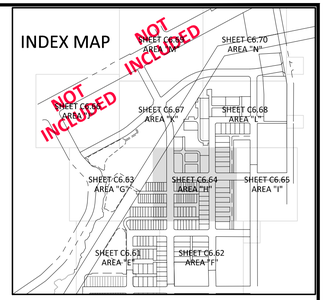
SEE SHEET C6.65

SEE SHEET C6.61

SEE SHEET C6.62




INDEX MAP




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
- AREA TO BE STABILIZED UPON INSTALATION

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST — NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

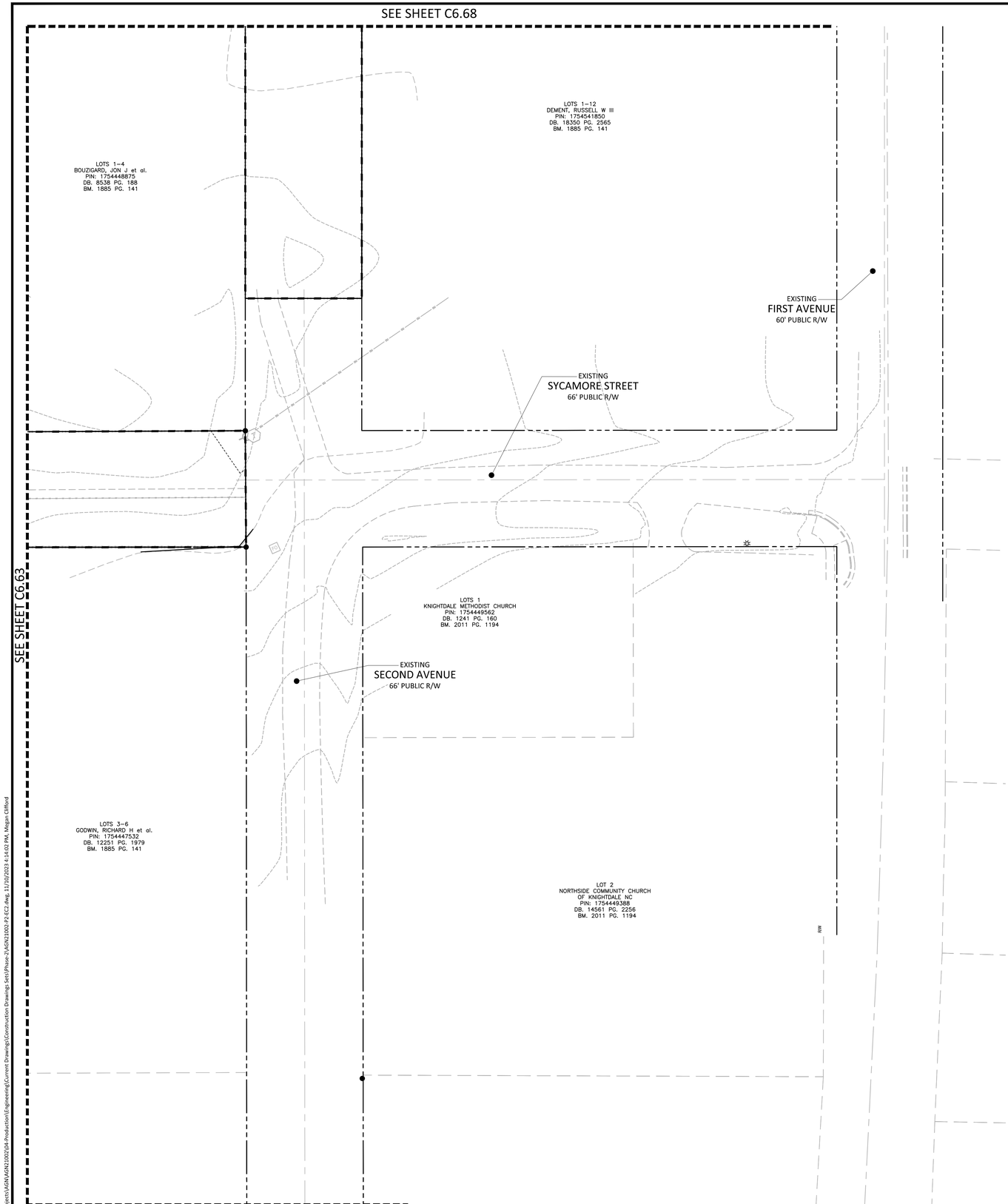
| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC2 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

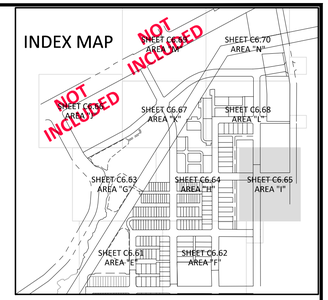
**EROSION CONTROL PLAN - AREA ''H'' - STAGE 2**

**C6.64**

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC2.dwg, 11/10/2023 4:13:54 PM, Megan Clifford




INDEX MAP




## 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
- AREA TO BE STABILIZED UPON INSTALATION

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
### N SMITHFIELD ROAD
### KNIGHTDALE, NORTH CAROLINA

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC2 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

**EROSION CONTROL PLAN - AREA "I" - STAGE 2**

# C6.65

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Set\Phase-2\AGN21002-P2-EC2.dwg, 11/10/2023 4:14:02 PM, Megan Clifford

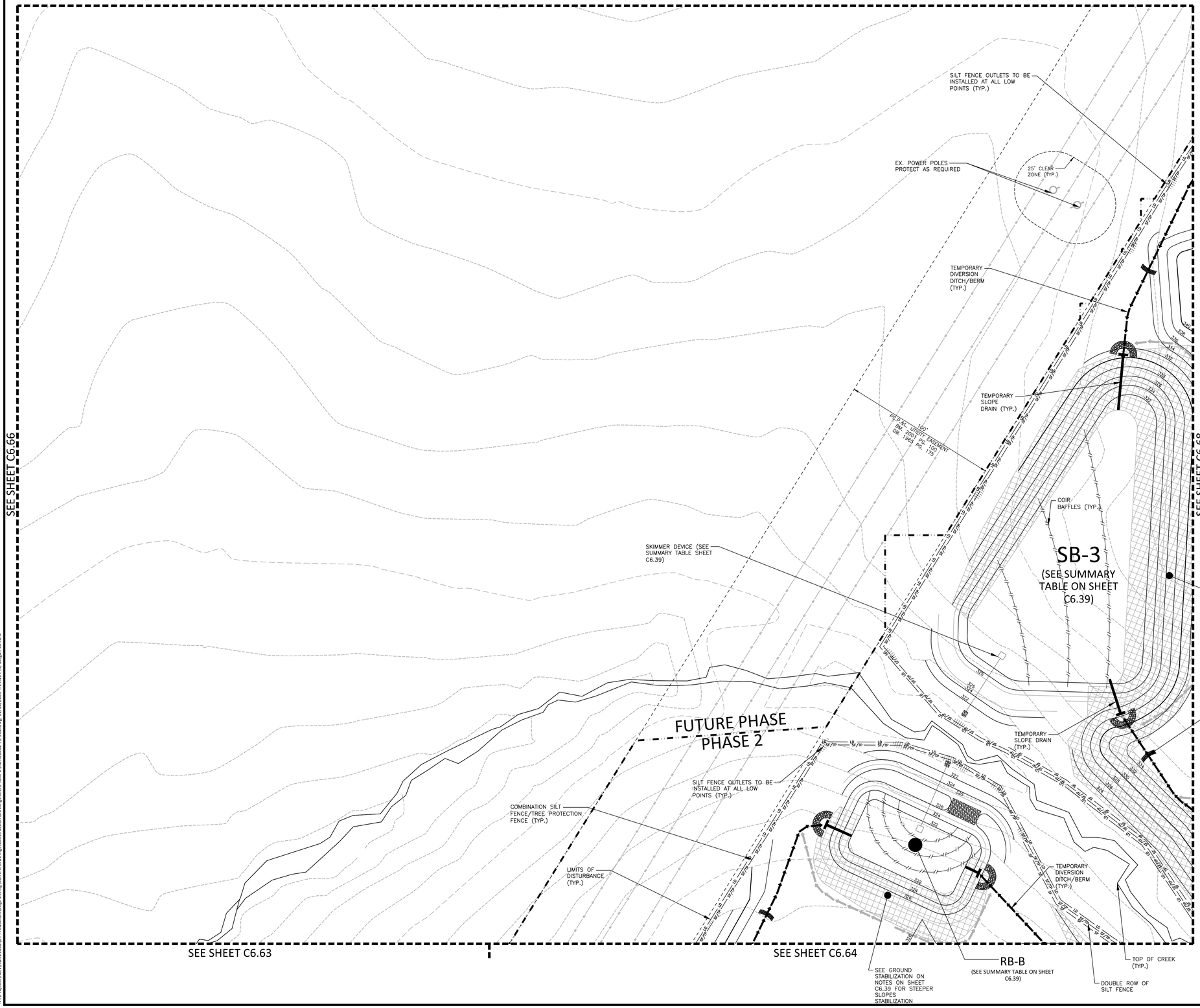
SEE SHEET C6.69

SEE SHEET C6.66

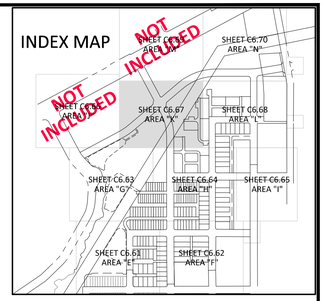
SEE SHEET C6.68

SEE SHEET C6.63

SEE SHEET C6.64




INDEX MAP




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
- AREA TO BE STABILIZED UPON INSTALATION

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 051536 TYLER E. PROBST
NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

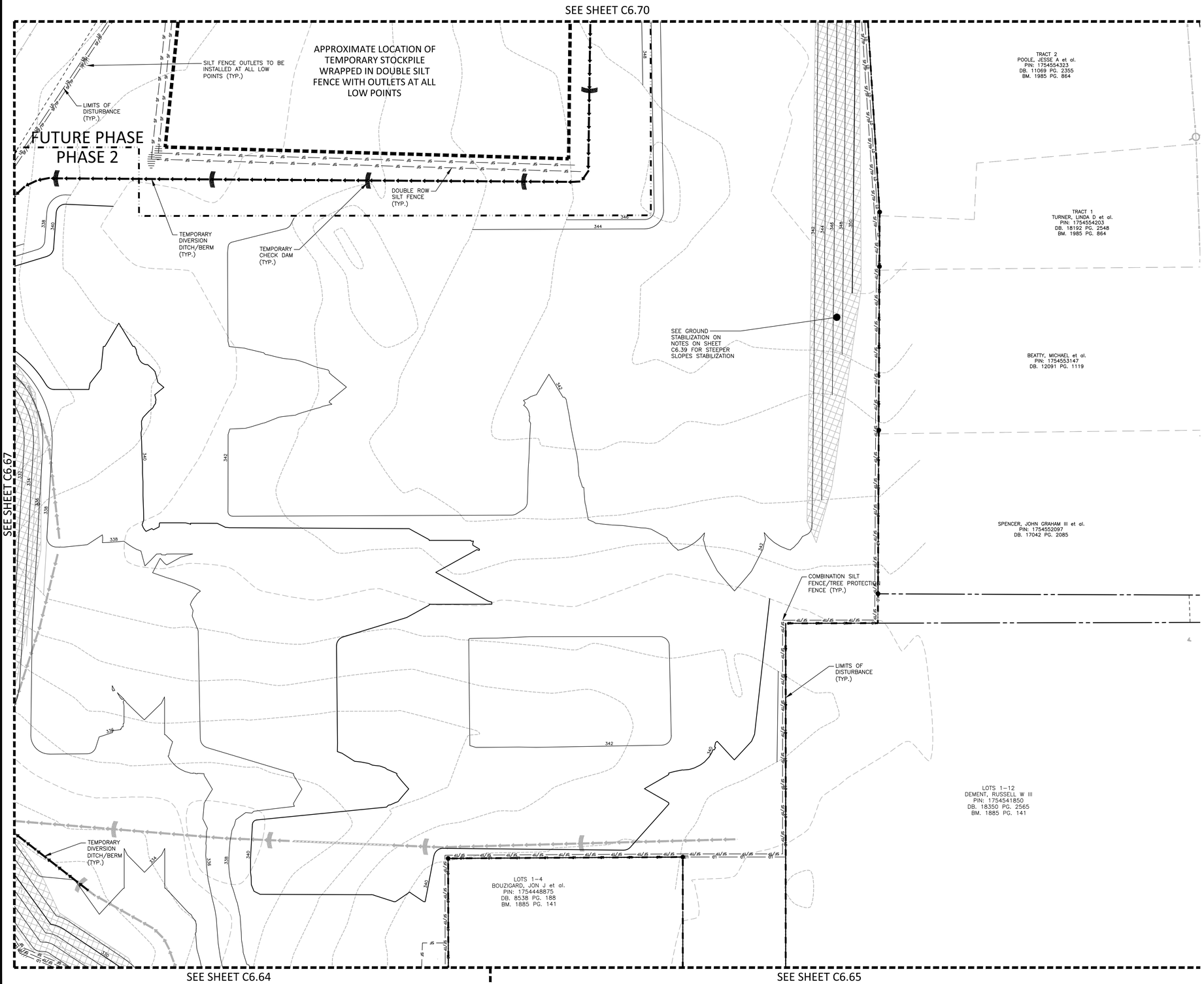
| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC2 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

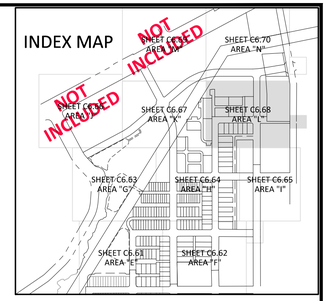
**EROSION CONTROL PLAN - AREA "K" - STAGE 2**

**C6.67**

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase 2\AGN21002-P2-EC2.dwg, 11/10/2023 4:14:11 PM, Megan Clifford




INDEX MAP




## 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
- AREA TO BE STABILIZED UPON INSTALATION

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC BROKERAGE | CONSULTING | PLANNING

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC2 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

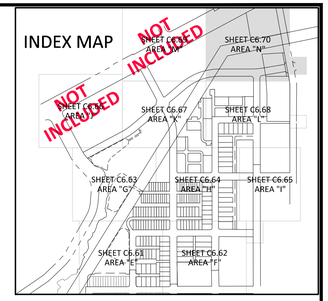
**SHEET**

## EROSION CONTROL PLAN - AREA "L" - STAGE 2

# C6.68


M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC2.dwg, 11/10/2023 4:14:19 PM, Megan Clifford

INDEX MAP




## EROSION CONTROL LEGEND

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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROEST
NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

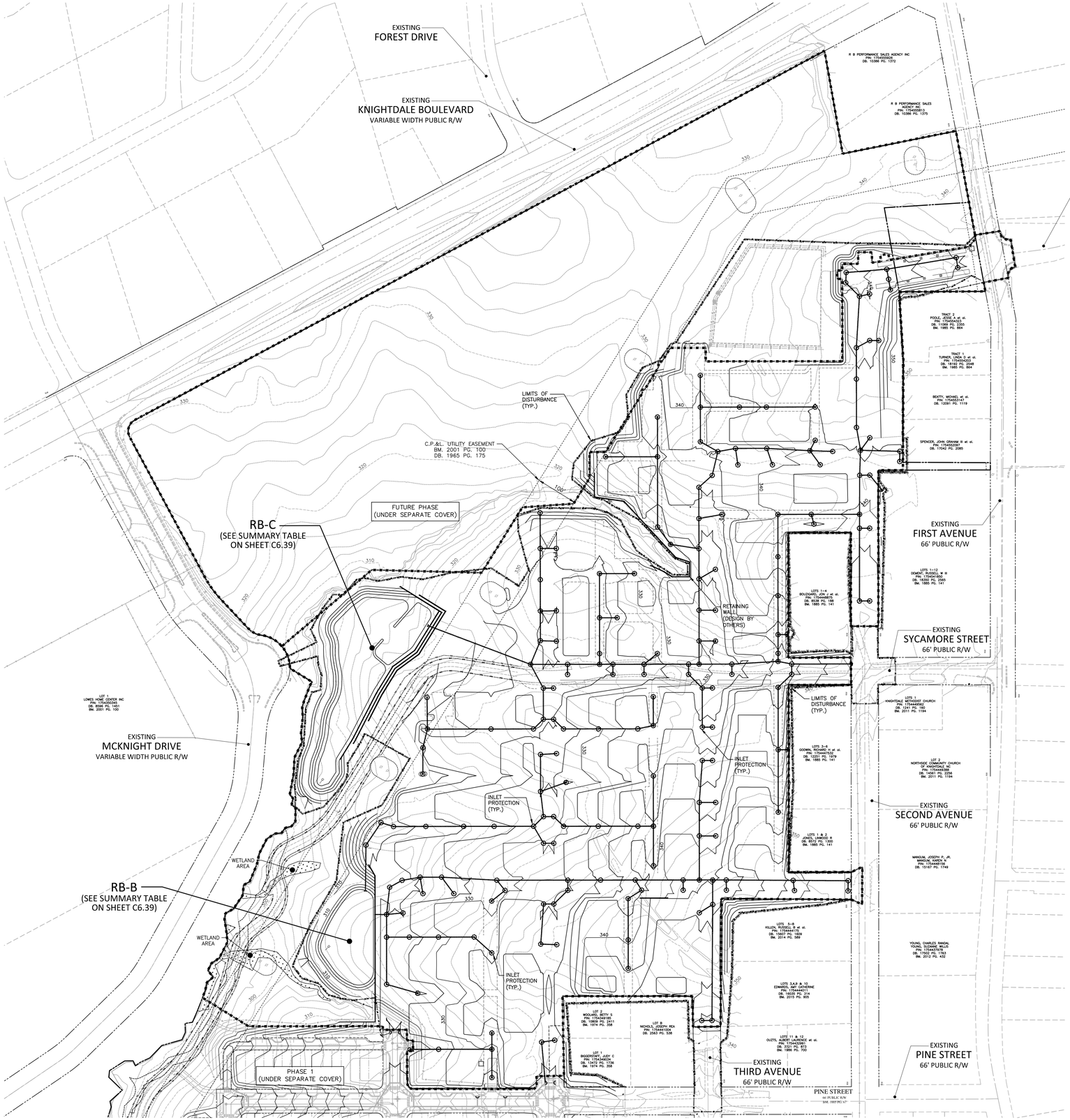
| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC2 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

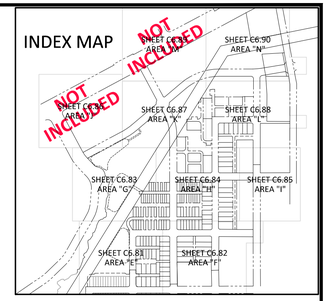
**EROSION CONTROL PLAN - AREA "N" - STAGE 2**

**C6.70**

M:\Projects\AGN\AGN21002\04-Production\1Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC2.dwg, 11/10/2023 4:14:39 PM, Megan Clifford




INDEX MAP




## 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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
## KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 051536 TYLER E. PROBST — NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 60 120 240
1 inch = 120 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-OAEC3 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1"=120' |
| DATE | 11. 13. 2023 |

**SHEET**

OVERALL EROSION CONTROL PLAN - STAGE 3

# C6.80

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-OAEC3.dwg, 11/10/2023 4:15:17 PM, Megan Clifford

SEE SHEET C6.83

SEE SHEET C6.84

SEE SHEET C6.82

WETLAND AREA

WETLAND AREA

WETLAND AREA

SILT FENCE OUTLETS AT ALL LOW POINTS (TYP.)

150' PCP & UTILITY EASEMENT BK 2853, PG 1865 BK 100 PG 175

SKIMMER ATTACHED TO PERMANENT RISER STRUCTURE (SEE SUMMARY TABLE SHEET C6.39)

VELOCITY DISSAPATOR 12'Lx6'Wx22" THICK CLASS 'B' RIPRAP (TYP.)

4'X4' PERMANENT RISER TOP=309.00 CONTRACTOR TO PLUG ALL ORIFICES DURING EC STAGES (SEE CONSTRUCTION DRAWINGS FOR RISER INFORMATION (C9.00–C9.04)

SILT FENCE OUTLETS AT ALL LOW POINTS (TYP.)

PHASE 1 LIMITS OF DISTURBANCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

EX. RETAINING WALL BUILT IN PHASE 1

PHASE 2

PHASE 1

INLET PROTECTION (TYP.)

RB-B
(SEE SUMMARY TABLE ON SHEET C6.39)

COIR BAFFLES (TYP.)

RETAINING WALL (DESIGN BY OTHERS)

INLET PROTECTION (TYP.)

SILT FENCE (TYP.)

MAILBOX/PERMITS/RECORD BOX AND RAIN GAUGE

CONCRETE WASHOUT (TYP.)

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT NEEDED ONCE PHASE 1 IS STABILIZED

ALLEY "10"
(20' PRIVATE)

FIFTH AVENUE
(58' PUBLIC R/W)

PINE STREET
(58' PUBLIC R/W)

133 134 135 136 137 138 139 140 141 142 143 144 145 146 147

SEE SHEET C6.33 (UNDER SEPARATE COVER)

INDEX MAP

NOT INCLUDED

NOT INCLUDED

SHEET C6.90 AREA "N"

SHEET C6.87 AREA "K"

SHEET C6.88 AREA "L"

SHEET C6.83 AREA "G"

SHEET C6.84 AREA "H"

SHEET C6.85 AREA "I"

SHEET C6.81 AREA "E"

SHEET C6.82 AREA "F"

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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST — NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC3 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

# EROSION CONTROL PLAN - AREA "E" - STAGE 3
# C6.81


M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC3.dwg, 11/10/2023 4:16:18 PM, Megan Clifford

SEE SHEET C6.84

SEE SHEET C6.85

SEE SHEET C6.81

SEE INSET

INLET PROTECTION (TYP.)

RETAINING WALL (DESIGN BY OTHERS)

INLET PROTECTION (TYP.)

COMBINATION SILT FENCE / TREE PROTECTION FENCE (TYP.)

TEMPORARY CONSTRUCTION EASEMENT (TYP.)

LIMITS OF DISTURBANCE (TYP.)

LOTS 1 & 2
JONES, LINWOOD R
DB. 8572 PG. 1300
BM. 1885 PG. 141

LOTS 5-8
KILLEN, RUSSELL B et ol.
PIN: 1754444175
DB. 15607 PG. 1609
BM. 2014 PG. 589

LOTS 3,4,9 & 10
EDWARDS, AMY CATHERINE
PIN: 1754444011
DB. 16035 PG. 314
BM. 2015 PG. 905

LOT 2
WOOLARD, BETTY S
PIN: 1754349185
DB. 10809 PG. 2411
BM. 1974 PG. 358

LOT B
NICHOLS, JOSEPH REA
PIN: 1754441004
DB. 2563 PG. 538

LOT 1
BIGGERSTAFF, JUDY C
PIN: 1754349034
DB. 13472 PG. 1736
BM. 1974 PG. 358

TEMPORARY ACCESS FOR EXISTING DRIVEWAY FOR LOT 2

LOTS 11 & 12
OUZTS, ALBERT LAURENCE et ol.
PIN: 1754432991
DB. 3721 PG. 873
BM. 1986 PG. 700

LOT 1
WEST, BRANDON et
PIN: 175443482
DB. 15257 PG. 1
BM. 1994 PG. 2

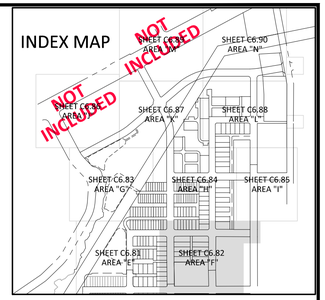
EXISTING
THIRD AVENUE
66' PUBLIC R/W

EXISTING
PINE STREET
66' PUBLIC R/W

INSET

SEE SHEET C6.34 (UNDER SEPARATE COVER)

INDEX MAP




## 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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST
NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC3 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

**EROSION CONTROL PLAN - AREA "F" - STAGE 3**

**C6.82**

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase 2\AGN21002-P2-EC3.dwg, 11/10/2023 4:16:56 PM, Megan Clifford

SEE SHEET C6.83

SEE SHEET C6.84

SEE SHEET C6.84

SEE SHEET C6.81

FUTURE PHASE
PHASE 2

RB-C
(SEE SUMMARY TABLE ON SHEET C6.39)

COIR BAFFLES (TYP.)

RETAINING WALL (DESIGN BY OTHERS)

EXISTING
MCKNIGHT DRIVE
VARIABLE WIDTH PUBLIC R/W

COMBINATION SILT FENCE/TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

SKIMMER ATTACHED TO PERMANENT RISER STRUCTURE (SEE SUMMARY TABLE SHEET C6.39)

6'x6' PERMANENT RISER STRUCTURE
TOP OF RISER @ 306.50
CONTRACTOR TO PLUG ALL ORIFICES (SEE CD PLANS FOR DETAILS C9.05–C9.09)

VELOCITY DISSIPATOR
NCDOT CLASS 'I' RIPRAP
32'L X 12'W X 22" THICK

EX. POWER POLES
PROTECT AS REQUIRED

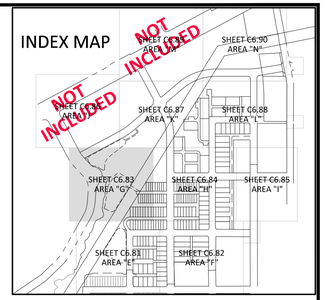
INLET PROTECTION (TYP.)

LIMITS OF DISTURBANCE (TYP.)

INLET PROTECTION (TYP.)

COMBINATION SILT FENCE/TREE PROTECTION FENCE (TYP.)

INDEX MAP




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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST — NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC3 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

EROSION CONTROL PLAN - AREA "G" - STAGE 3

**C6.83**

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Set\Phase-2\AGN21002-P2-EC3.dwg, 11/10/2023 4:16:46 PM, Megan Clifford

SEE SHEET C6.87

SEE SHEET C6.88

SEE SHEET C6.83

SEE SHEET C6.85

SEE SHEET C6.81

SEE SHEET C6.82

100' P.C.P.&L. UTILITY EASEMENT BM. /2001 PG. 105 DB. 1965 PG. 175

EX. POWER POLES PROTECT AS REQUIRED

INLET PROTECTION (TYP.)

RETAINING WALL (DESIGN BY OTHERS)

EX. PERMANENT TRAIL EASEMENT D.B. 18710 PG. 679

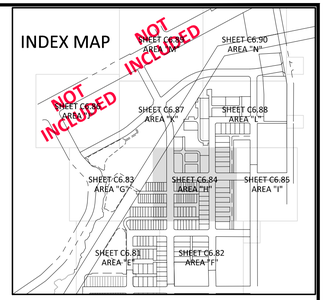
EX. TEMPORARY CONSTRUCTION EASEMENT D.B. 18710 PG. 679

COMBINATION SILT FENCE/TREE PROTECTION FENCE (TYP.)

TEMPORARY CONSTRUCTION EASEMENT (TYP.)

LIMITS OF DISTURBANCE (TYP.)

INDEX MAP




## EROSION CONTROL LEGEND

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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST — NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

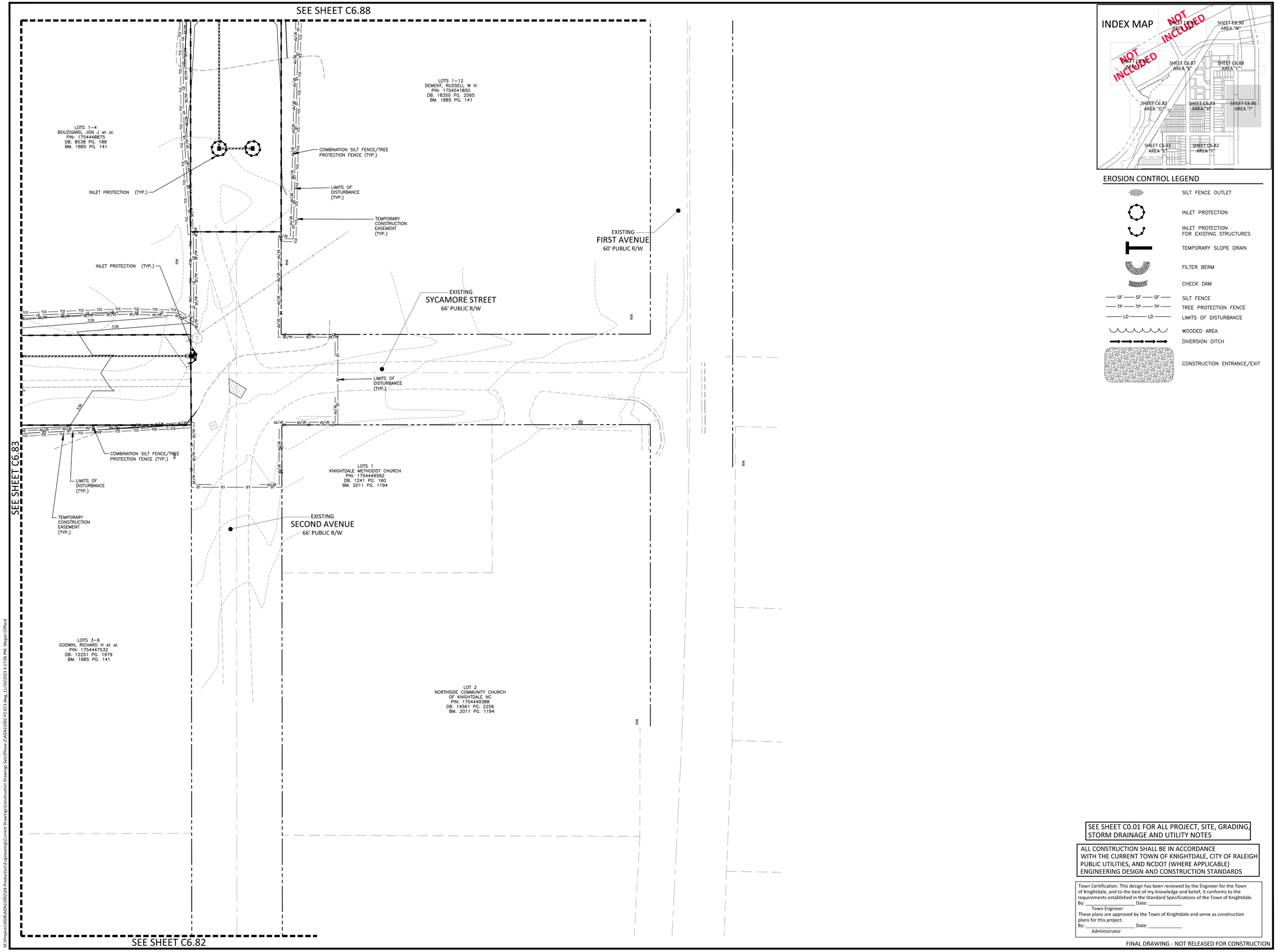
| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC3 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

## EROSION CONTROL PLAN - AREA ''H'' - STAGE 3

# C6.84

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Set\Phase-2\AGN21002-P2-EC3.dwg, 11/10/2023 4:16:56 PM, Megan Clifford




M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC3.dwg, 11/10/2023 4:17:06 PM, Megan Clifford

INDEX MAP




## 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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC
BROKERAGE | CONSULTING | PLANNING

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC3 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

## EROSION CONTROL PLAN - AREA "I" - STAGE 3

# C6.85

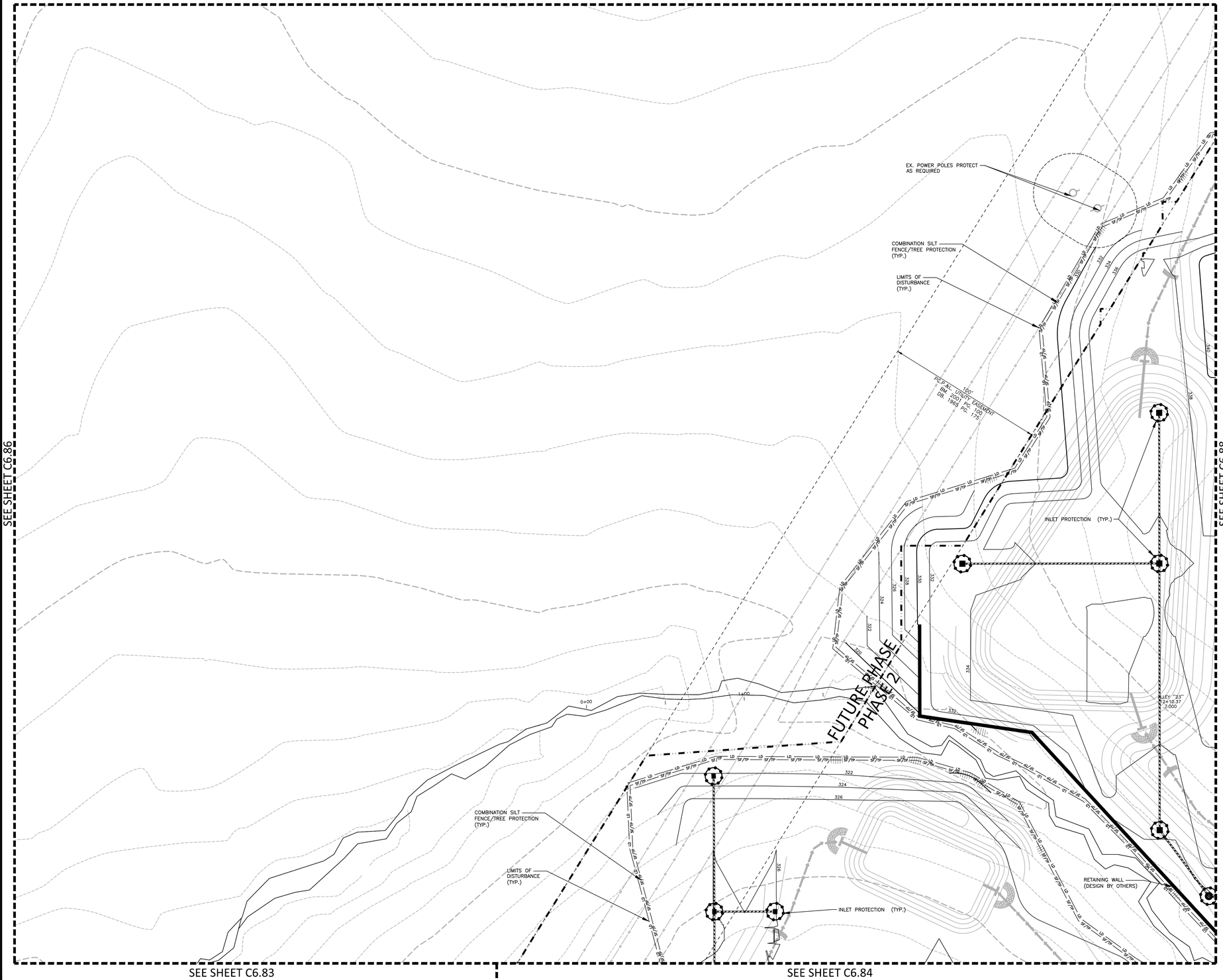
SEE SHEET C6.89

SEE SHEET C6.86

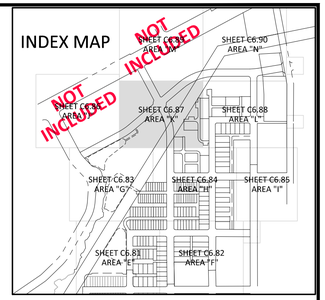
SEE SHEET C6.88

SEE SHEET C6.83

SEE SHEET C6.84




INDEX MAP




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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST
NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC3 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

EROSION CONTROL PLAN - AREA "K" - STAGE 3

**C6.87**

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase 2\AGN21002-P2-EC3.dwg, 11/10/2023 4:17:16 PM, Megan Clifford

SEE SHEET C6.90

LIMITS OF DISTURBANCE (TYP.)

COMBINATION SILT FENCE/ TREE PROTECTION FENCE (TYP.)

FUTURE PHASE
PHASE 2

INLET PROTECTION (TYP.)

INLET PROTECTION (TYP.)

INLET PROTECTION (TYP.)

INLET PROTECTION (TYP.)

LIMITS OF DISTURBANCE (TYP.)

TEMPORARY CONSTRUCTION EASEMENT (TYP.)

COMBINATION SILT FENCE/ TREE PROTECTION FENCE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

TEMPORARY CONSTRUCTION EASEMENT (TYP.)

COMBINATION SILT FENCE/ TREE PROTECTION FENCE (TYP.)

TRACT 2
POOLE, JESSE A et al.
PIN: 1754554323
DB. 11069 PG. 2355
BM. 1985 PG. 864

TRACT 1
TURNER, LINDA D et al.
PIN: 1754554203
DB. 18192 PG. 2548
BM. 1985 PG. 864

BEATTY, MICHAEL et al.
PIN: 1754553147
DB. 12091 PG. 1119

SPENCER, JOHN GRAHAM III et al.
PIN: 1754552097
DB. 17042 PG. 2085

SEE INSET

INSET

SEE SHEET C6.87

SEE SHEET C6.84

SEE SHEET C6.85

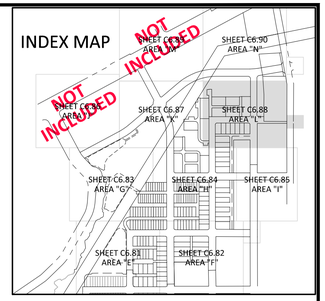
SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

INDEX MAP




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


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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
### N SMITHFIELD ROAD
### KNIGHTDALE, NORTH CAROLINA

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC3 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

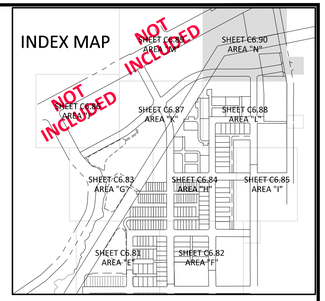
**SHEET**

## EROSION CONTROL PLAN - AREA "L" - STAGE 3

# C6.88

M:\Projects\AGN\AGN21002\04-Production\1Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC3.dwg, 11/10/2023 4:17:34 PM, Megan Clifford

INDEX MAP




## 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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST — NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

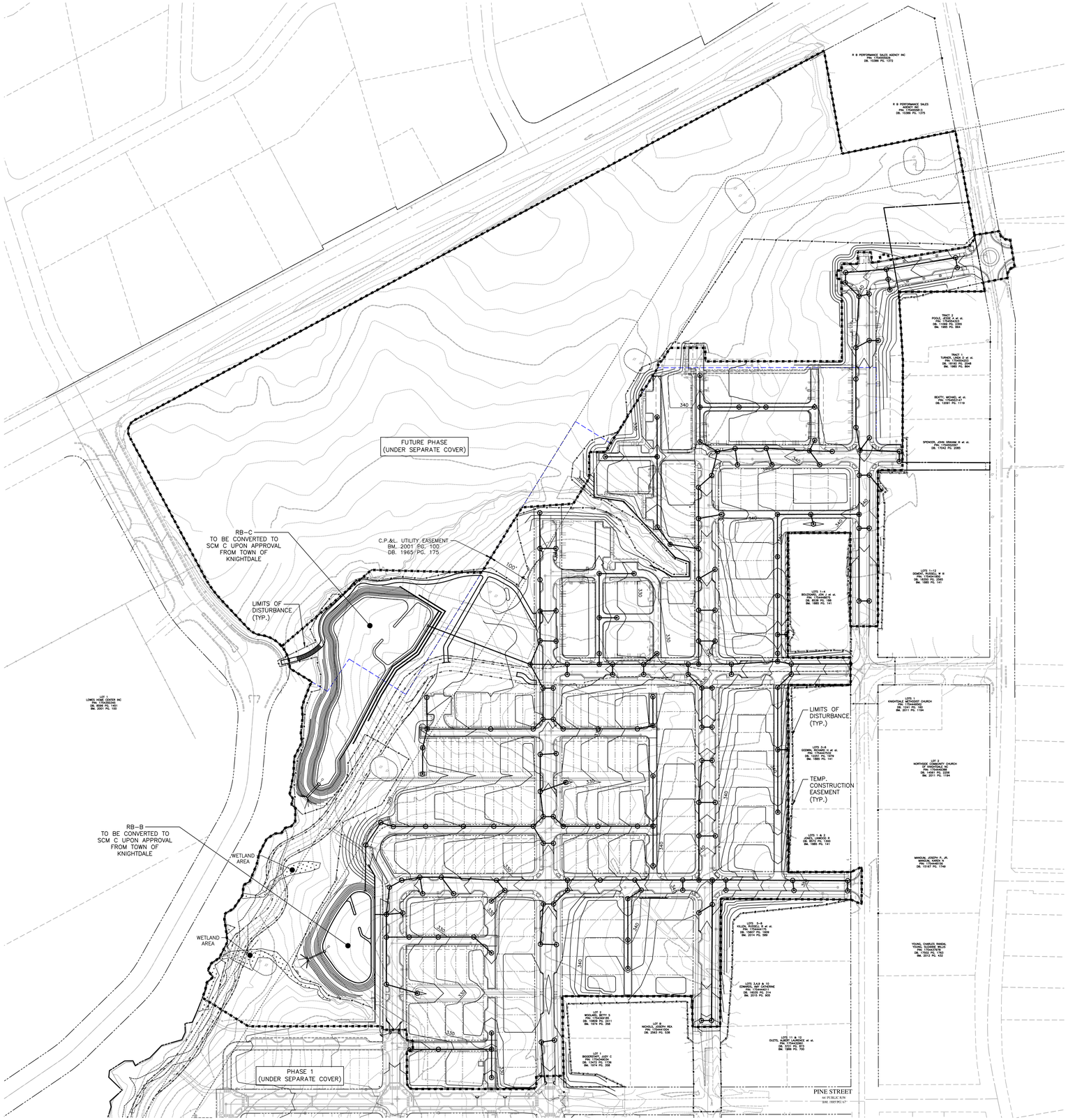
| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC3 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

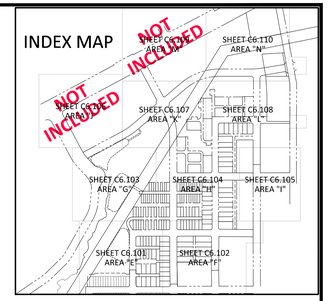
## EROSION CONTROL PLAN - AREA "N" - STAGE 3

# C6.90

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC3.dwg, 11/10/2023 4:17:52 PM, Megan Clifford




## INDEX MAP




## 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

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC BROKERAGE | CONSULTING | PLANNING

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 051536 TYLER E. PROEST
NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 60 120 240
1 inch = 120 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-OAEC4 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1"=120' |
| DATE | 11. 13. 2023 |

**SHEET**

OVERALL EROSION CONTROL PLAN - STAGE 4

# C6.100

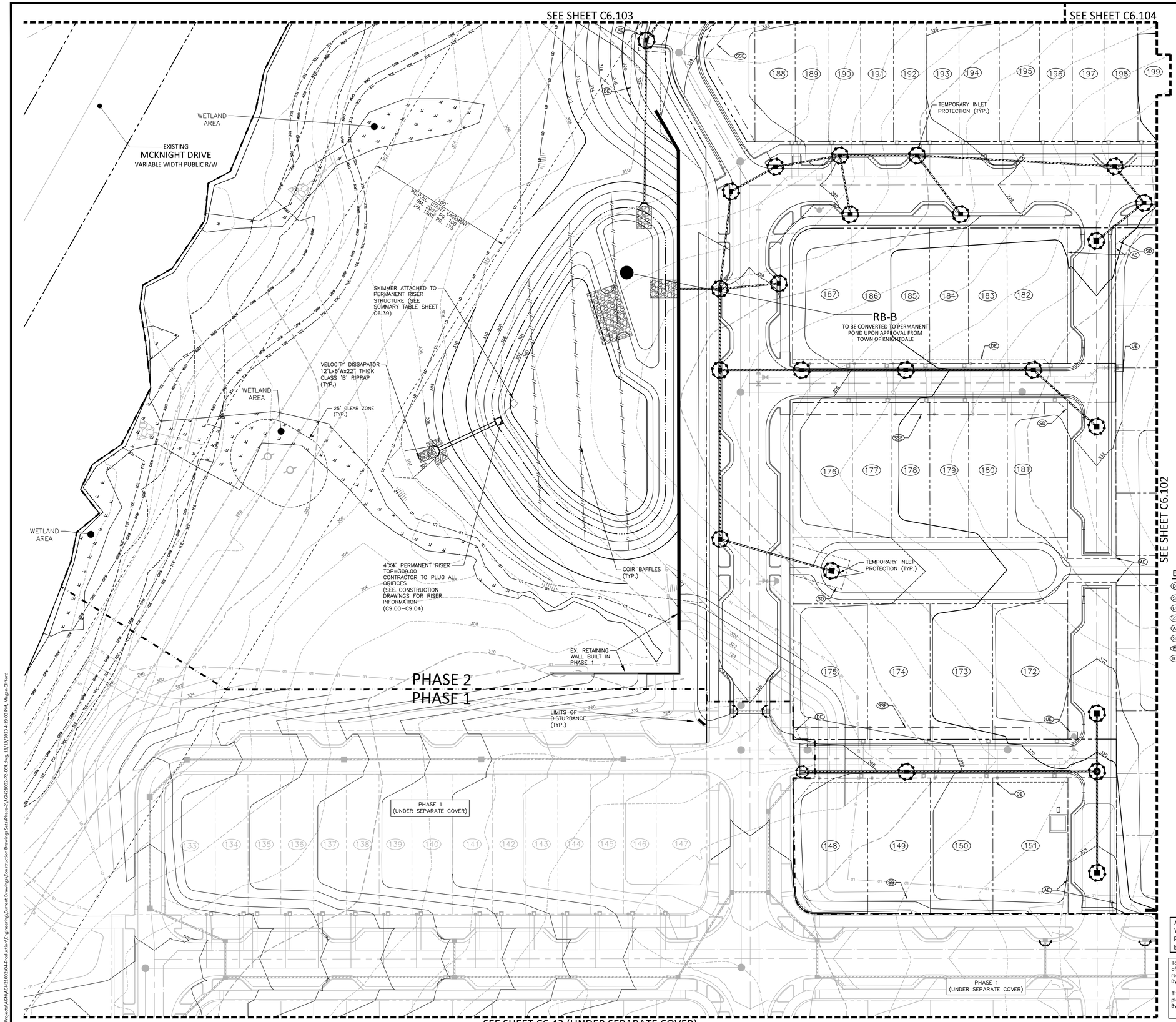

X:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawing Sets\Phase-2\AGN21002-P2-OAEC4.dwg, 11/10/2023 4:18:20 PM, Megan Clifford

SEE SHEET C6.103

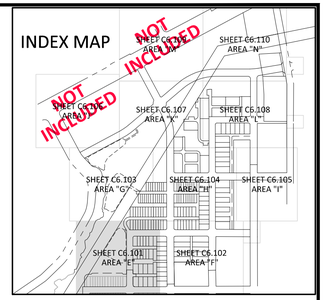
SEE SHEET C6.104

SEE SHEET C6.102

SEE SHEET C6.43 (UNDER SEPARATE COVER)




INDEX MAP




## 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

## EASEMENT LEGEND

- (DE) VARIABLE WIDTH PUBLIC STORM DRAINAGE EASEMENT UNLESS WIDTH NOTED
- (SD) VARIABLE WIDTH PRIVATE STORM DRAINAGE EASEMENT UNLESS WIDTH NOTED
- (UE) CITY OF RALEIGH WATERLINE EASEMENT
- (SSE) CITY OF RALEIGH SANITARY SEWER EASEMENT
- (AE) PRIVATE ACCESS EASEMENT
- (SB) SETBACKS
- (WE) RETAINING WALL EASEMENT
- (TCE) TEMPORARY CONSTRUCTION EASEMENT

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC4 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

**EROSION CONTROL PLAN - AREA "E" - STAGE 4**

# C6.101

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings\Sets\Phase-2\AGN21002-P2-EC4.dwg, 11/10/2023 4:19:03 PM, Megan.Clifford

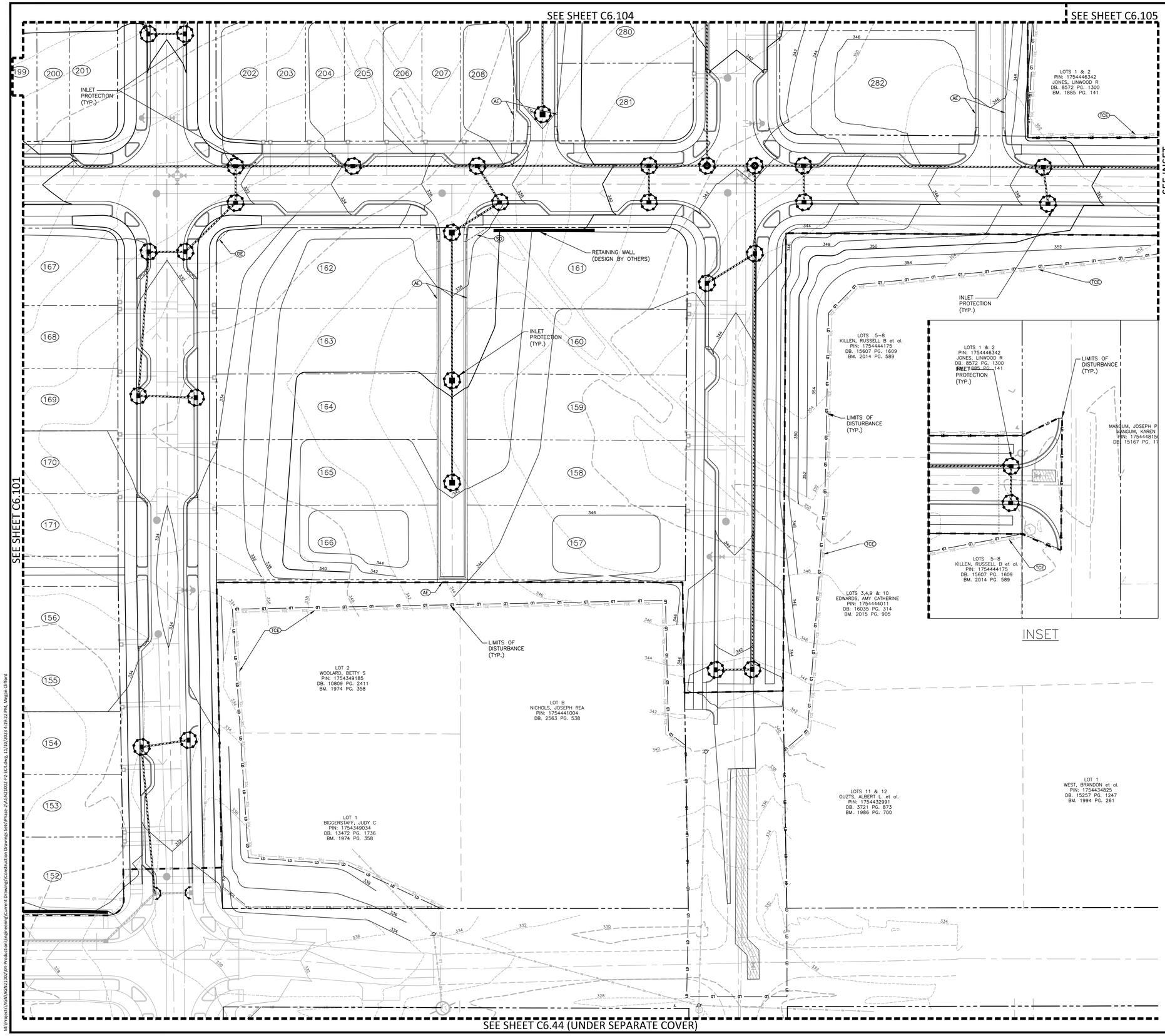
SEE SHEET C6.104

SEE SHEET C6.105

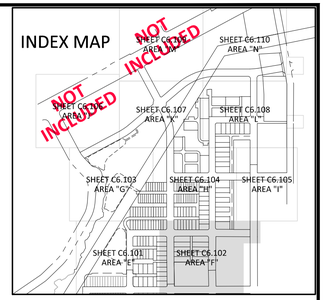
SEE SHEET C6.101

SEE INSET

SEE SHEET C6.44 (UNDER SEPARATE COVER)




INDEX MAP




## EROSION CONTROL LEGEND

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

## EASEMENT LEGEND

- (DE) VARIABLE WIDTH PUBLIC STORM DRAINAGE EASEMENT UNLESS WIDTH NOTED
- (SD) VARIABLE WIDTH PRIVATE STORM DRAINAGE EASEMENT UNLESS WIDTH NOTED
- (UE) CITY OF RALEIGH WATERLINE EASEMENT
- (SSE) CITY OF RALEIGH SANITARY SEWER EASEMENT
- (AE) PRIVATE ACCESS EASEMENT
- (SB) SETBACKS
- (WE) RETAINING WALL EASEMENT
- (TCE) TEMPORARY CONSTRUCTION EASEMENT

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST — NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC4 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

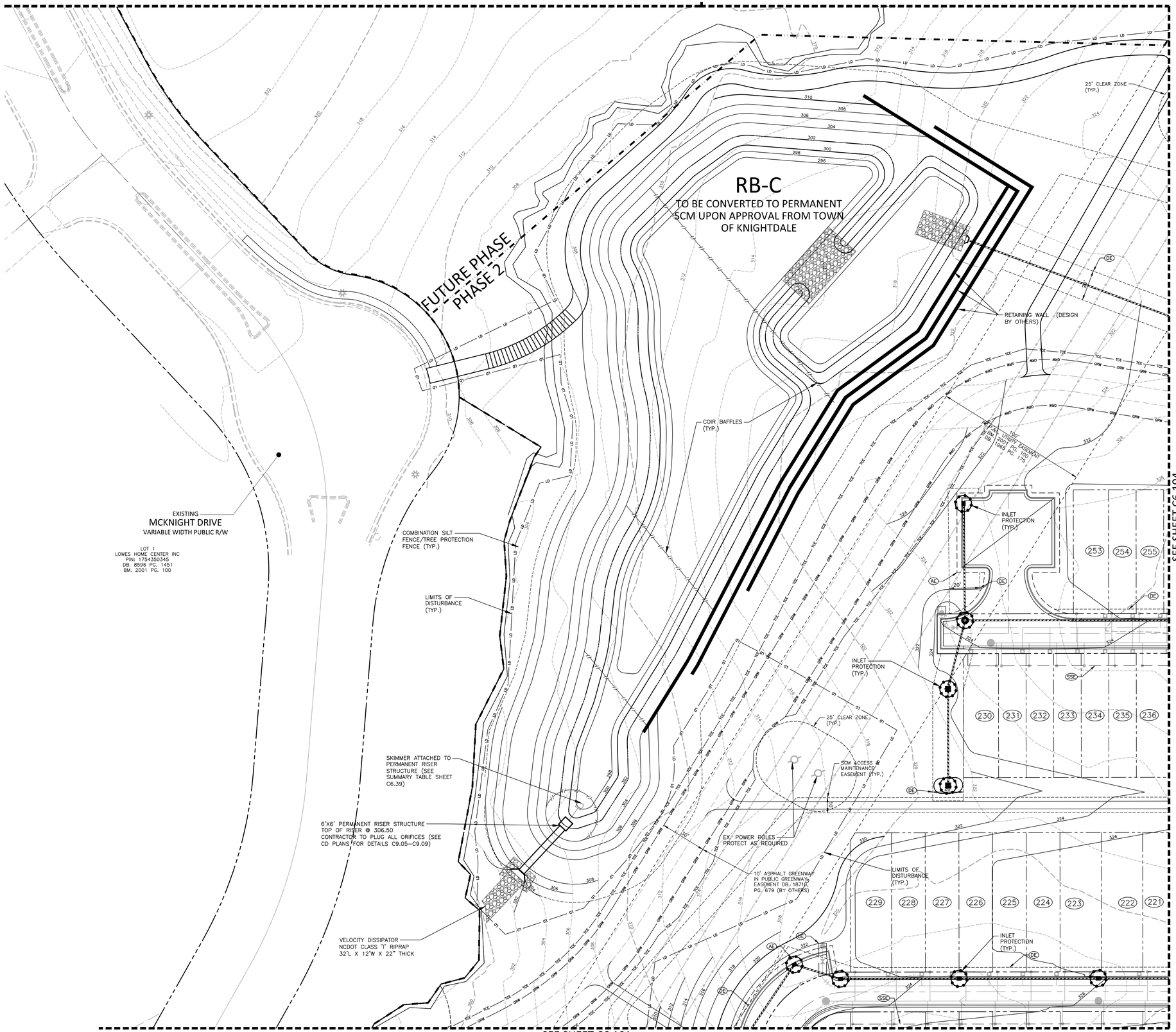
## EROSION CONTROL PLAN - AREA "F" - STAGE 4

# C6.102


I:\Projects\AGN\AGN21002\03-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC4.dwg, 11/10/2023 4:19:22 PM, Megan Clifford

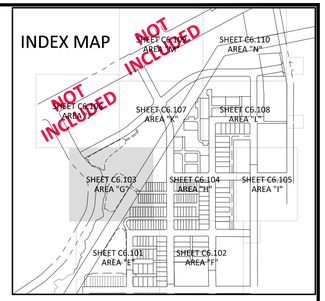
SEE SHEET C6.103

SEE SHEET C6.104




SEE SHEET C6.101

SEE SHEET C6.104




## 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

## EASEMENT LEGEND

- (DE) VARIABLE WIDTH PUBLIC STORM DRAINAGE EASEMENT UNLESS WIDTH NOTED
- (SD) VARIABLE WIDTH PRIVATE STORM DRAINAGE EASEMENT UNLESS WIDTH NOTED
- (UE) CITY OF RALEIGH WATERLINE EASEMENT
- (SSE) CITY OF RALEIGH SANITARY SEWER EASEMENT
- (AE) PRIVATE ACCESS EASEMENT
- (SB) SETBACKS
- (WE) RETAINING WALL EASEMENT
- (TCE) TEMPORARY CONSTRUCTION EASEMENT

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 051535 TYLER E. PROEST — NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC4 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

EROSION CONTROL PLAN - AREA "G" - STAGE 4

# C6.103

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase 2\AGN21002-P2-EC4.dwg, 11/10/2023 4:19:33 PM, Megan Clifford

SEE SHEET C6.107

SEE SHEET C6.108

SEE SHEET C6.103

SEE SHEET C6.105

SEE SHEET C6.101

SEE SHEET C6.102

PC.P.&L. UTILITY EASEMENT
BM. 2001 PG. 100
DB. 1965 PG. 175

25' CLEAR ZONE (TYP.)

EX. POWER POLES PROTECT AS REQUIRED

10' ASPHALT GREENWAY IN PUBLIC GREENWAY EASEMENT DB. 18710, PG. 679 (BY OTHERS)

INLET PROTECTION (TYP.)

RETAINING WALL (DESIGN BY OTHERS)

INLET PROTECTION (TYP.)

INLET PROTECTION (TYP.)

INLET PROTECTION (TYP.)

TEMPORARY CONSTRUCTION EASEMENT (TYP.)

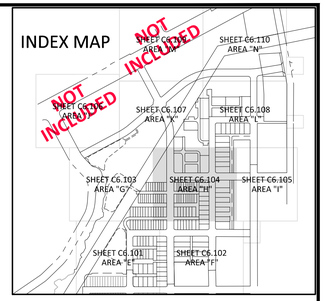
LIMITS OF DISTURBANCE (TYP.)

LOTS 1-4 & 7-12
COMMONWEALTH PARK
DB. 12251 PG. 1979
BM. 1985 PG. 141

LOT 1 & 2
PIN: 1734448158
JONES, LINWOOD R
DB. 18585 PG. 141
BM. 1985 PG. 141

LOT 1 & 2
BOUZIGARD, JON J et ux.
PIN: 1734448158
DB. 18585 PG. 141
BM. 1885 PG. 141

## INDEX MAP




## 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

## EASEMENT LEGEND

- (DE) VARIABLE WIDTH PUBLIC STORM DRAINAGE EASEMENT UNLESS WIDTH NOTED
- (SD) VARIABLE WIDTH PRIVATE STORM DRAINAGE EASEMENT UNLESS WIDTH NOTED
- (UE) CITY OF RALEIGH WATERLINE EASEMENT
- (SSE) CITY OF RALEIGH SANITARY SEWER EASEMENT
- (AE) PRIVATE ACCESS EASEMENT
- (SB) SETBACKS
- (WE) RETAINING WALL EASEMENT
- (TCE) TEMPORARY CONSTRUCTION EASEMENT

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 051536 TYLER E. PROEST
NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

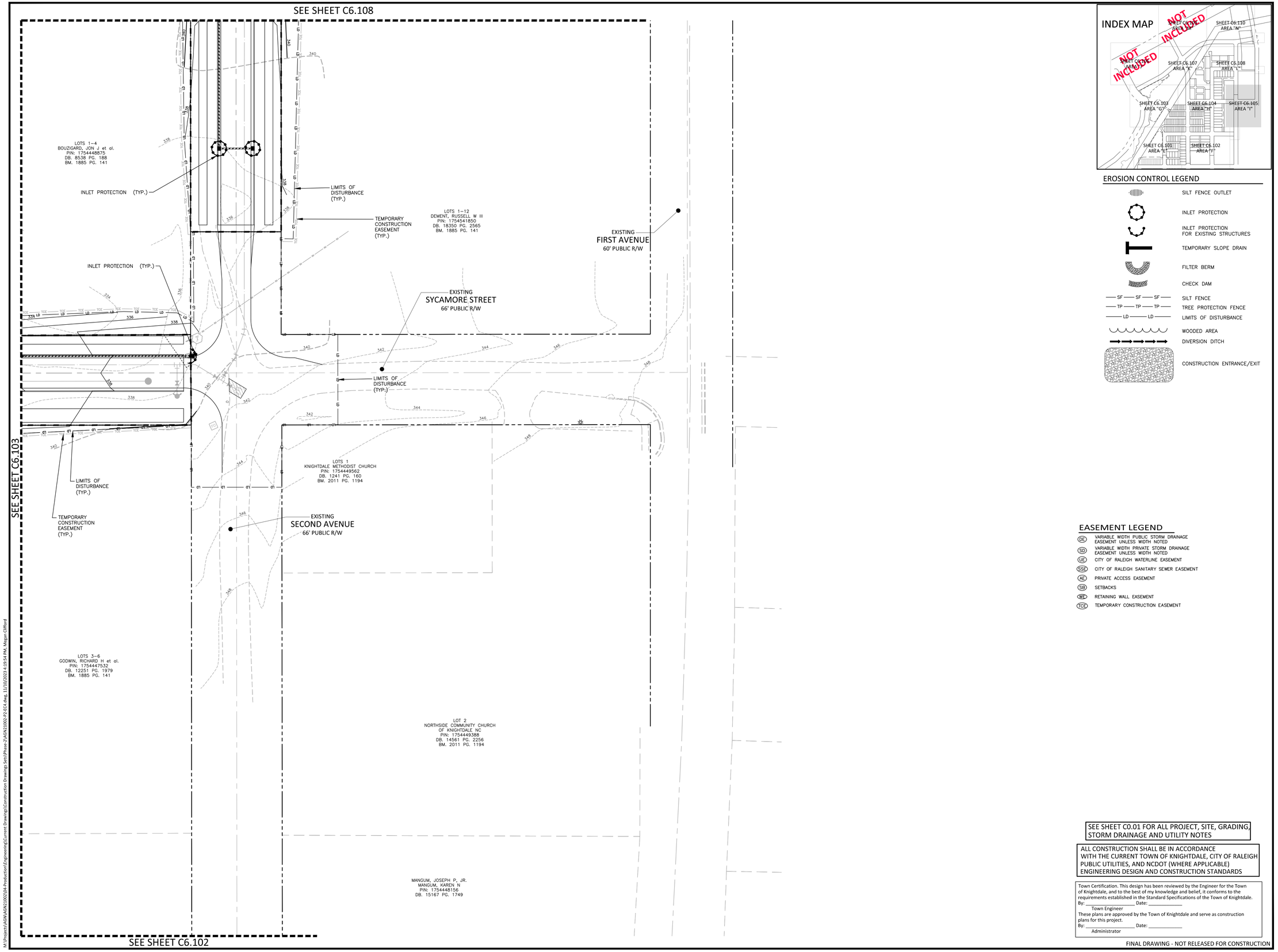
| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC4 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

**EROSION CONTROL PLAN - AREA "H" - STAGE 4**

**C6.104**

M:\Projects\AGN\AGN21003\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase 2\AGN21002-P2-EC4.dwg, 11/10/2023 4:19:44 PM, Megan Clifford




INDEX MAP




## 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

## EASEMENT LEGEND

- (DE) VARIABLE WIDTH PUBLIC STORM DRAINAGE EASEMENT UNLESS WIDTH NOTED
- (SD) VARIABLE WIDTH PRIVATE STORM DRAINAGE EASEMENT UNLESS WIDTH NOTED
- (UE) CITY OF RALEIGH WATERLINE EASEMENT
- (SSE) CITY OF RALEIGH SANITARY SEWER EASEMENT
- (AE) PRIVATE ACCESS EASEMENT
- (SB) SETBACKS
- (WE) RETAINING WALL EASEMENT
- (TCE) TEMPORARY CONSTRUCTION EASEMENT

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC BROKERAGE | CONSULTING | PLANNING

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC4 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

**EROSION CONTROL PLAN - AREA "I" - STAGE 4**

# C6.105

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawing Sets\Phase-2\AGN21002-P2-EC4.dwg, 11/10/2023 4:19:54 PM, Megan Clifford

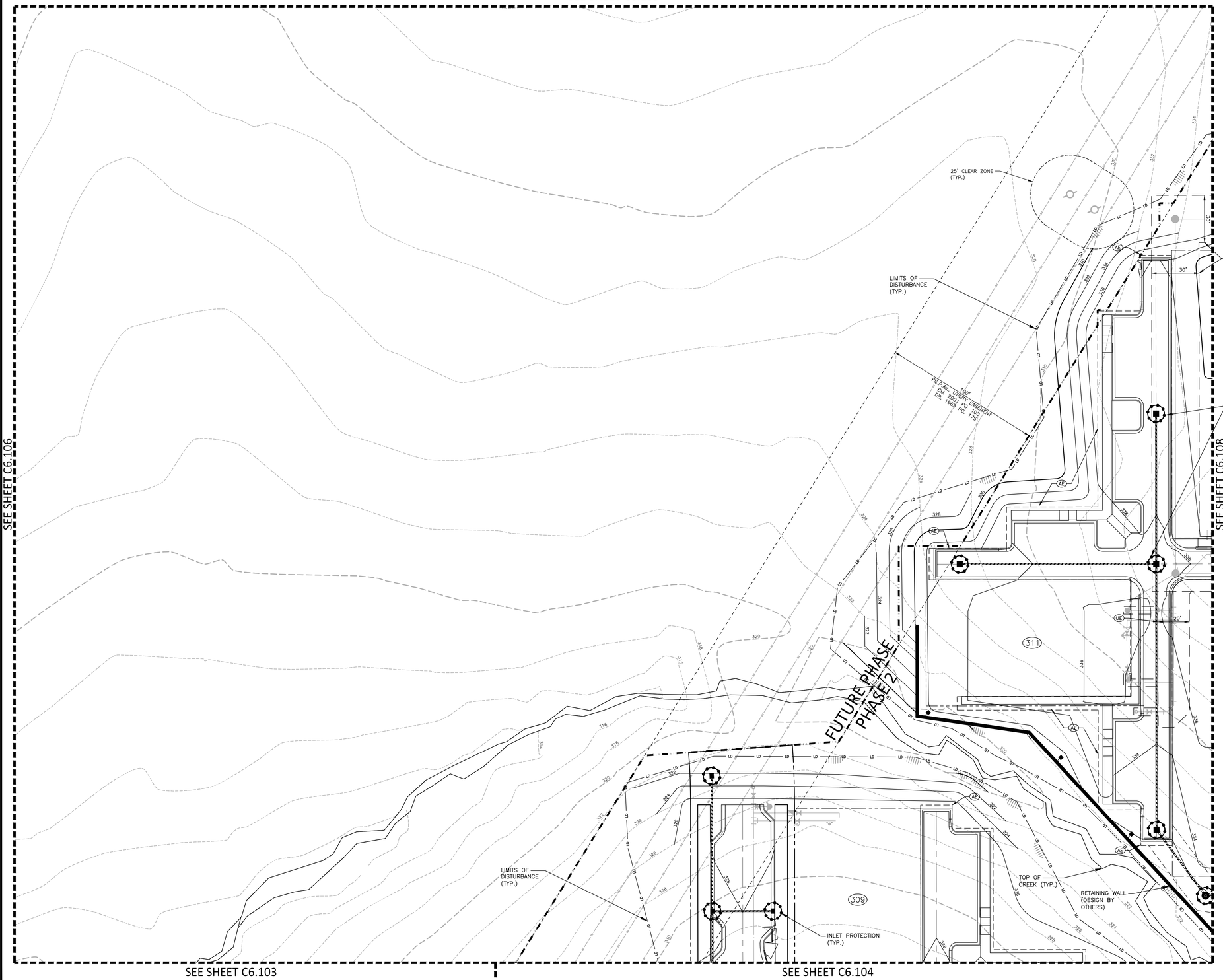
SEE SHEET C6.109

SEE SHEET C6.106

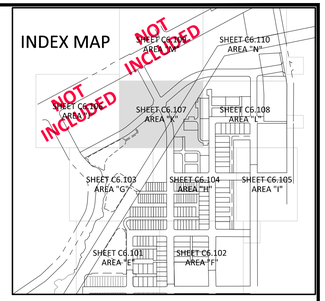
SEE SHEET C6.108

SEE SHEET C6.103

SEE SHEET C6.104




INDEX MAP




## 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

## EASEMENT LEGEND

- (DE) VARIABLE WIDTH PUBLIC STORM DRAINAGE EASEMENT UNLESS WIDTH NOTED
- (SD) VARIABLE WIDTH PRIVATE STORM DRAINAGE EASEMENT UNLESS WIDTH NOTED
- (UE) CITY OF RALEIGH WATERLINE EASEMENT
- (SSE) CITY OF RALEIGH SANITARY SEWER EASEMENT
- (AE) PRIVATE ACCESS EASEMENT
- (SB) SETBACKS
- (WE) RETAINING WALL EASEMENT
- (TCE) TEMPORARY CONSTRUCTION EASEMENT

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST
NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC4 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

## EROSION CONTROL PLAN - AREA "K" - STAGE 4

# C6.107


I:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC4.dwg, 11/10/2023 4:29:04 PM, Megan Clifford

SEE SHEET C6.110

SEE SHEET C6.107

FUTURE PHASE
PHASE 2

INLET PROTECTION (TYP.)

LIMITS OF DISTURBANCE (TYP.)

TRACT 2
POOLE, JESSE A et al.
PIN: 1754554323
DB. 11069 PG. 2355
BM. 1985 PG. 864

TRACT 1
TURNER, LINDA D et al.
PIN: 1754554203
DB. 18192 PG. 2548
BM. 1985 PG. 864

BEATTY, MICHAEL et al.
PIN: 1754553147
DB. 12091 PG. 1119

SPENCER, JOHN GRAHAM III et al.
PIN: 1754552097
DB. 17042 PG. 2085

LOTS 1–12
DEMENT, RUSSELL W III
PIN: 1754541850
DB. 18350 PG. 2565
BM. 1885 PG. 141

LOTS 1–4
BOUZIGARD, JON J et al.
PIN: 1754448575
DB. 8538 PG. 188
BM. 1885 PG. 141

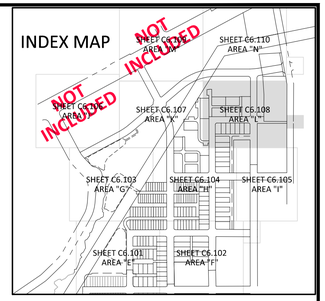
SEE INSET

INSET

SEE SHEET C6.104

SEE SHEET C6.105

## INDEX MAP




## 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

## EASEMENT LEGEND

- (DE) VARIABLE WIDTH PUBLIC STORM DRAINAGE EASEMENT UNLESS WIDTH NOTED
- (SD) VARIABLE WIDTH PRIVATE STORM DRAINAGE EASEMENT UNLESS WIDTH NOTED
- (UE) CITY OF RALEIGH WATERLINE EASEMENT
- (SSE) CITY OF RALEIGH SANITARY SEWER EASEMENT
- (AE) PRIVATE ACCESS EASEMENT
- (SB) SETBACKS
- (W) RETAINING WALL EASEMENT
- (TCE) TEMPORARY CONSTRUCTION EASEMENT

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
### N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PRIEST
NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

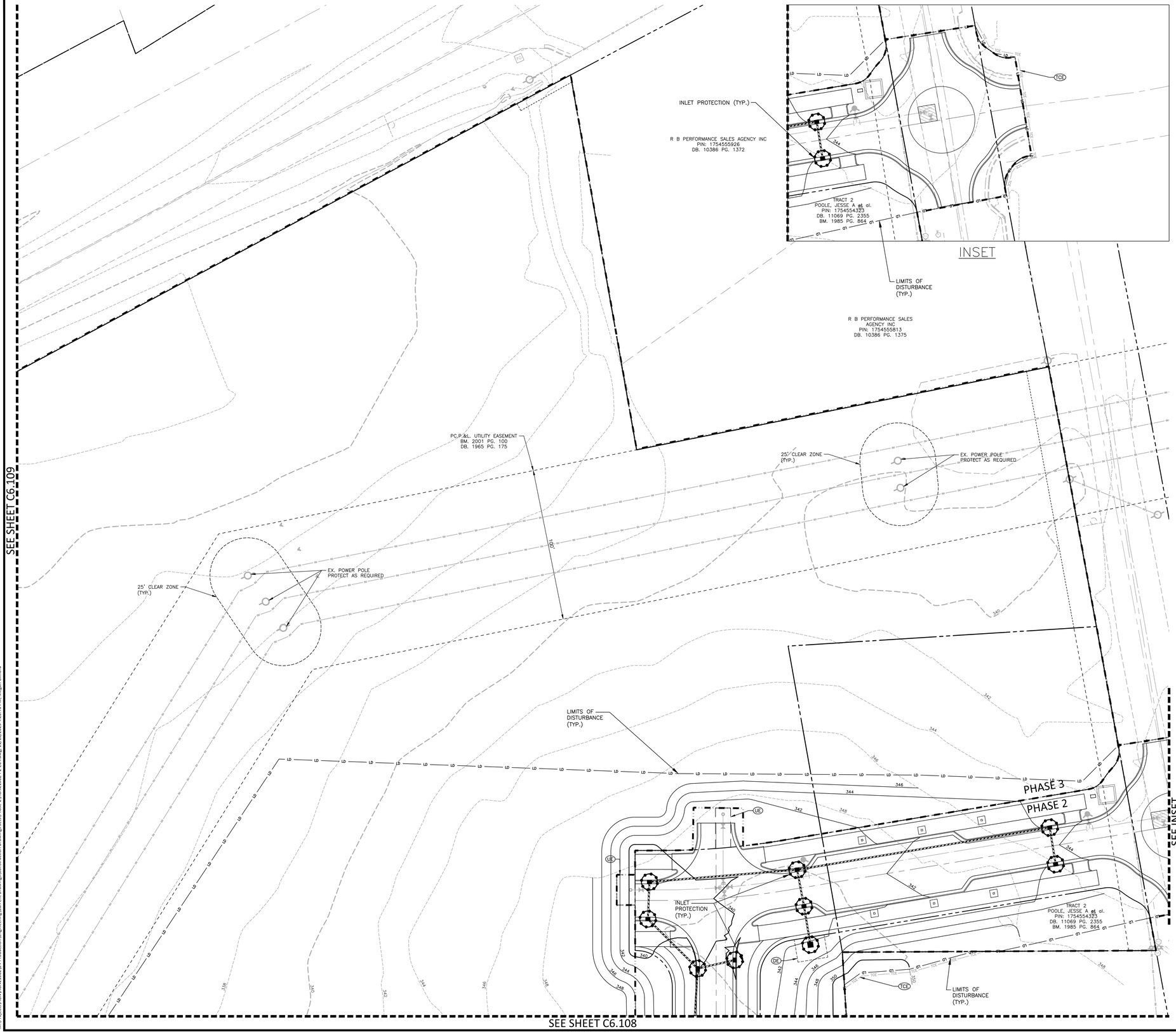
| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC4 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

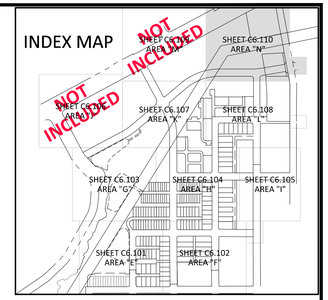
## EROSION CONTROL PLAN - AREA "L" - STAGE 4

# C6.108

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawing Sets\Phase-2\AGN21002-P2-EC4.dwg, 11/10/2023 4:20:23 PM, Megan Clifford




INDEX MAP




## 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

## EASEMENT LEGEND

- (DE) VARIABLE WIDTH PUBLIC STORM DRAINAGE EASEMENT UNLESS WIDTH NOTED
- (SD) VARIABLE WIDTH PRIVATE STORM DRAINAGE EASEMENT UNLESS WIDTH NOTED
- (UE) CITY OF RALEIGH WATERLINE EASEMENT
- (SSE) CITY OF RALEIGH SANITARY SEWER EASEMENT
- (AE) PRIVATE ACCESS EASEMENT
- (SB) SETBACKS
- (WE) RETAINING WALL EASEMENT
- (TCE) TEMPORARY CONSTRUCTION EASEMENT

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROSSER
NOT FOR CONSTRUCTION

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC4 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | 1" = 30' |
| DATE | 11. 13. 2023 |

**SHEET**

## EROSION CONTROL PLAN - AREA "N" - STAGE 4

# C6.110

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC4.dwg, 11/10/2023 4:20:41 PM, Megan Clifford

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

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

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD CATCH BASIN RISER/FILTER

CONSTRUCTION NOTES:

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

KEY RIP RAP INTO THE DAM FOR STABILIZATION.

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.

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD CLEAN WATER DIVERSION

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.

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD CONSTRUCTION ENTRANCE

GENERAL NOTES

1. DRAW DOWN RISER & BARREL SHALL BE 6" SCH. 40 PVC WITH CLEAN–OUT CAP AND 3/4" HOLES. SEE NOTE 1 FOR NUMBER AND SPACING OF HOLES.
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. MAINTENANCE: SEDIMENT TO BE REMOVED AND PROPERLY DISPOSED OF WHEN BASIN IS HALF FULL. GRAVEL FILTER AROUND RISER SHOULD BE REPLACED AS NEEDED TO ENSURE DEWATERING.

NOTE 1

HOLE SPECS:

DEWATERING HOLES WILL BE INSTALLED IN SETS OF HORIZONTAL RINGS. THE FIRST SET OF HOLES WILL BE SET 6 INCHES FROM THE BOTTOM OF THE RISER. RINGS WILL CONTINUE UP THE RISER IN INTERVALS OF 3 INCHES. HOLES WILL BE 3/4 INCH IN DIAMETER AND WILL BE SPACED EQUALLY AROUND THE RISER. THE NUMBER OF HOLES PER RING WILL EQUAL TO THE DRAINAGE AREA.

EXAMPLE
A BASIN DRAINING 2.0 ACRES SHOULD HAVE 2 HOLES PER RING EVERY 3 INCHES ON THE RISER PIPE. THE FIRST RING (2 HOLES) WILL BE SET 6 INCHES FROM THE BOTTOM OF THE RISER.

NOTE: ROUND DRAINAGE AREA TO THE NEAREST WHOLE NUMBER TO DETERMINE NUMBER OF HOLES.

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD CUSTOM BASIN

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.

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD TEMPORARY DIVERSION DITCH

NOTES

PROVIDE STABILIZED OUTLET TO STREAM BANK. 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 FILTER BAG FOR DEWATERING ABOVE NATURAL GROUND.

NOT TO SCALE

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD FILTER BAG FOR DEWATERING ACTIVITIES

NOTES:

1. PLACE GRAVEL BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. USE SAND BAGS OF WOVEN GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH ½ 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.

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

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD HORSESHOE INLET PROTECTION

LEGENDS

FLOW DIRECTION
SILT FENCE
DIVERSION DITCH
WATTLES
TREE PROTECTION FENCE
SILT FENCE OUTLET
WATTLES
DRAINAGE PIPE
CONSTRUCTION ENTRANCE

NOTES:

1. TREE PROTECTION FENCE SHOULD BE INSTALLED ALONG THE REAR PROPERTY LINE WHEN ADJACENT TO RIPARIAN BUFFER ZONES, WETLANDS AND/OR 25 FT. TREE AND VEGETATION PROTECTION ZONE.
2. WRAP EACH INDIVIDUAL LOT WITH SILT FENCE ON ALL SIDES AND INSTALL SILT FENCE OUTLETS SHOWN ON SCHEMATIC/DIAGRAM AND AS NEEDED.
3. CONSTRUCTION ENTRANCE SHOULD BE INSTALLED AT THE HIGH ELEVATION SIDE OF THE SITE.
4. THESE DETAILS ARE FOR ONLY LOTS WITH DISTURBED AREA LESS THAN ONE ACRE.
5. IF THE DISTURBED AREA IS GREATER THAN ONE ACRE, A PLAN SHOULD BE SUBMITTED FOR THE 30-DAY REVIEW CYCLE. THE PLAN SHOULD ADDRESS BERMS/DIVERSIONS AND SEDIMENT TRAPS AND BASINS.
6. IF MULTIPLE LOTS SHARE SILT FENCE WITH NONE INSTALLED BETWEEN THE LOTS, A REVISED PLAN WILL BE REQUIRED AND A NOTICE OF VIOLATION (NOV) WITH CIVIL PENALTY WILL BE ISSUED.
7. INLETS DOWNSTREAM OF DISTURBANCES SHOULD BE PROTECTED, STREETS SHOULD BE SWEPT DAILY, AND MEASURES REMOVED OR DAMAGED BY SUB-CONTRACTORS OR UTILITIES SHALL BE RE-INSTALLED AT THE END OF THE WORK DAY.
8. DETAILS FOR SILT FENCE, SILT FENCE OUTLET, CONSTRUCTION ENTRANCE AND OTHER MEASURES PROVIDED ON OTHER SHEETS.
9. EROSION CONTROL DETAILS ARE NOT DRAWN TO SCALE.
10. ENSURE THAT LAND DISTURBANCE DOES NOT IMPACT SEPTIC FIELD OR REPAIR FIELD AS THIS MAY VOID ON-SITE WASTE WASTER PERMIT VALIDITY.
11. IF LOTS ARE CONTIGUOUS AND HAVE DIFFERENT LAND OWNERS, LOTS CAN NOT SHARE THE SILT FENCES. EACH LOT SHOULD HAVE INDIVIDUAL SILT FENCES. THERE SHOULD BE A MINIMUM OF TWO ROWS OF SILT FENCES BETWEEN THE LOTS.
12. SILT FENCE SHOULD ONLY BE INSTALLED AT THE EDGE OF THE LIMITS OF DISTURBANCE OF THE BACK OF THE LOTS.
13. STANDARD PLAN DOES NOT COVER THE FOLLOWING:
a. BASEMENT LOTS
b. LOTS WITH GREATER THAN 5 FEET ELEVATION BETWEEN THEM AND/OR LOTS WITH GREATER THAN 10 FEET ELEVATION FROM FRONT TO BACK
c. LOTS WITH CONCENTRATED FLOW/SWALES BETWEEN THEM
d. LOTS WITH STORMWATER CONTROL MEASURES (SCMS)
e. LOTS WITH CUT SLOPES OR "RUN ON"

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 2/15/19

TYPICAL INDIVIDUAL LOT SEDIMENT & EROSION CONTROL MEASURES DETAIL

NOTE 1

HOLE SPECS:

DEWATERING HOLES WILL BE INSTALLED IN SETS OF HORIZONTAL RINGS. THE FIRST SET OF HOLES WILL BE SET 6 INCHES FROM THE BOTTOM OF THE RISER. RINGS WILL CONTINUE UP THE RISER IN INTERVALS OF 3 INCHES. HOLES WILL BE 3/4 INCH IN DIAMETER AND WILL BE SPACED EQUALLY AROUND THE RISER. THE NUMBER OF HOLES PER RING WILL EQUAL TO THE DRAINAGE AREA.

EXAMPLE
A BASIN DRAINING 2.0 ACRES SHOULD HAVE 2 HOLES PER RING EVERY 3 INCHES ON THE RISER PIPE. THE FIRST RING (2 HOLES) WILL BE SET 6 INCHES FROM THE BOTTOM OF THE RISER.

NOTE: ROUND DRAINAGE AREA TO THE NEAREST WHOLE NUMBER TO DETERMINE NUMBER OF HOLES.

GENERAL NOTES:
1) BASIN SHOULD BE CLEANED OUT WHEN CAPACITY REACHES AN ELEVATION REPRESENTING THAT THE BASIN IS HALF–FULL.
2) PROVIDE A MINIMUM OF THREE POROUS BAFFLES TO EVENLY DISTRIBUTE FLOW ACROSS THE BASIN, REDUCING TURBULENCE.
3) BAFFLE MATERIAL MUST BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR A SILT FENCE.
4) MOST OF THE SEDIMENT WILL ACCUMULATE IN THE FIRST BAY, SO THIS SHOULD BE READILY AVAILABLE FOR MAINTENANCE.
5) 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.
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.

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD CUSTOM BASIN ATTACHED TO PERMANENT RISER

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.

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD SKIMMER ATTACHED TO PERMANENT RISER

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: ____________________ Date: _____________
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: ____________________ Date: _____________
Administrator

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

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC
BROKERAGE | CONSULTING | PLANNING

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
### KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 051536 TYLER E. PROBST
PRELIMINARY NOT FOR CONSTRUCTION

## REVISIONS

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

## PLAN INFORMATION

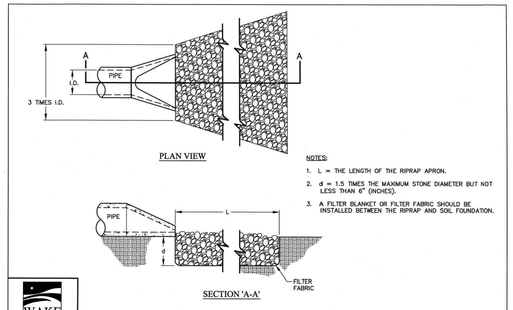
| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC-D1 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | N.T.S. |
| DATE | 11. 13. 2023 |

## SHEET

**EROSION CONTROL DETAILS**

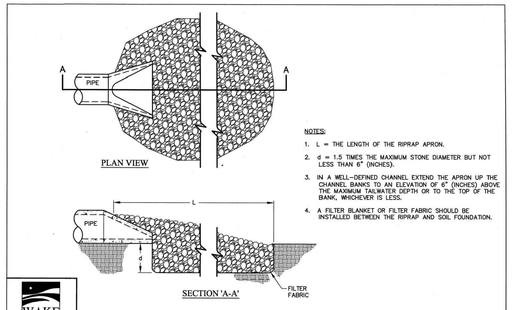
# C6.111

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC-D1.dwg, 11/10/2023 4:20:51 PM, Megan Clifford



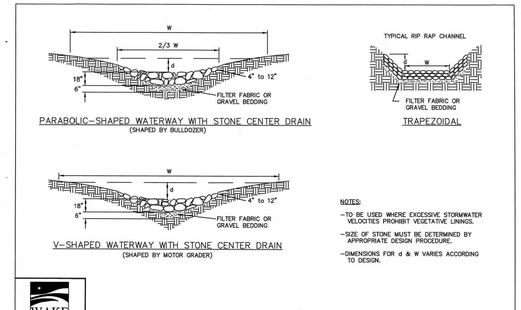

STANDARD PIPE OUTLET TO FLAT AREA
NO WELL-DEFINED CHANNEL

EFFECTIVE: 01/31/08



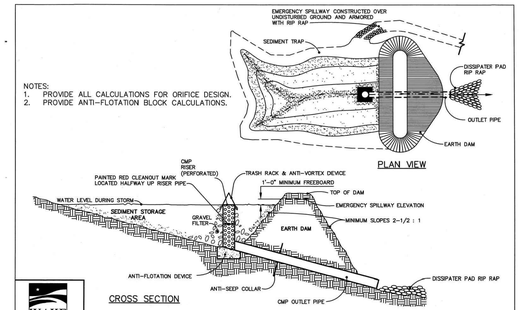

STANDARD PIPE OUTLET TO WELL-DEFINED CHANNEL

EFFECTIVE: 01/31/08



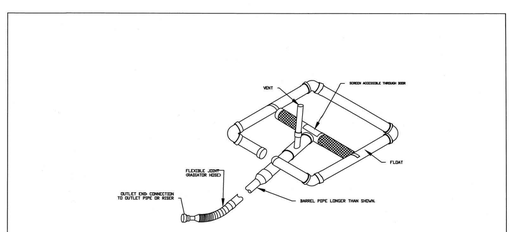

STANDARD RIP-RAP LINED CHANNELS

EFFECTIVE: 01/31/08



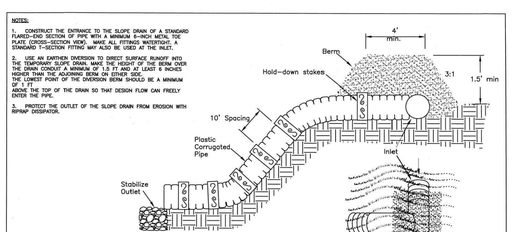

STANDARD RISER-BARREL SEDIMENT BASIN

EFFECTIVE: 01/31/08



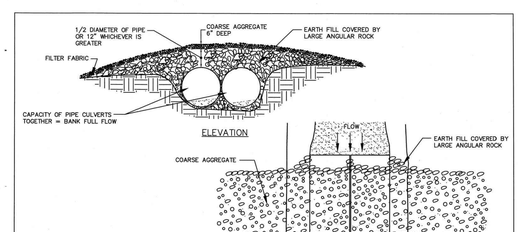

STANDARD SILT BAG - INLET SEDIMENT CONTROL DEVICE

EFFECTIVE: 01/31/08



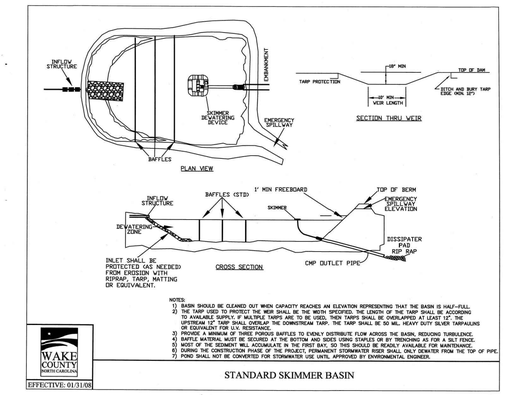

STANDARD TEMPORARY SILT FENCE

EFFECTIVE: 01/31/08




STANDARD SILT FENCE OUTLET

EFFECTIVE: 01/31/08




STANDARD SKIMMER BASIN

EFFECTIVE: 01/31/08




STANDARD SKIMMER DETAIL

EFFECTIVE: 01/31/08



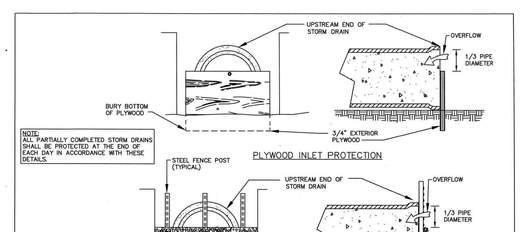

STANDARD TEMPORARY SLOPE DRAIN

EFFECTIVE: 01/31/08




STANDARD TEMPORARY STREAM CROSSING

EFFECTIVE: 01/31/08




STANDARD PIPE INLET PROTECTION (PLYWOOD & STONE)

EFFECTIVE: 01/31/08

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC BROKERAGE | CONSULTING | PLANNING

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
## N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 051536 ENGINEER TYLER E. PROSSER NOT FOR CONSTRUCTION

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC-D1 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | N.T.S. |
| DATE | 11. 13. 2023 |

**SHEET**

EROSION CONTROL DETAILS

# C6.112

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase 2\AGN21002-P2-EC-D1.dwg, 11/10/2023 4:20:53 PM, Megan Clifford

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.<br>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 un-attended 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,<br>2. Date and time of the inspection,<br>3. Name of the person performing the inspection,<br>4. Indication of whether the measures were operating properly,<br>5. Description of maintenance needs for the measure,<br>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,<br>2. Date and time of the inspection,<br>3. Name of the person performing the inspection,<br>4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration,<br>5. Indication of visible sediment leaving the site,<br>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:<br>1. Actions taken to clean up or stabilize the sediment that has left the site limits,<br>2. Description, evidence, and date of corrective actions taken, and<br>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 sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made:<br>1. Description, evidence and date of corrective actions taken, and<br>2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit 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).<br>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 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.

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. | Complete, date and sign an inspection report. |
| (e) Corrective actions have been taken to E&SC Measures. | 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 Onsite**

In addition to the E&SC Plan documents above, the following items shall be kept on the site and available for agency 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.
(c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. 40 CFR 122.41

**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).

(a) 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.

(b) Anticipated bypasses and unanticipated bypasses.

(c) 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 Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-33

| 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.<br>• ***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.<br>• 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 | • ***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. |
| (c) Anticipated bypasses [40 CFR 122.41(m)(3)] | • ***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.<br>• ***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.<br>• ***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).<br>• Division staff may waive the requirement for a written report on a case-by-case basis. |

# NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

Note: This detail sheet has been modified from the standard NCG01 format

## 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<br>-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones<br>-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<br>-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<br>• Hydroseeding<br>• Rolled erosion control products with or without temporary grass seed<br>• Appropriately applied straw or other mulch<br>• Plastic sheeting | • Permanent grass seed covered with straw or other mulches and tackifiers<br>• Geotextile fabrics such as permanent soil reinforcement matting<br>• Hydroseeding<br>• Shrubs or other permanent plantings covered with mulch<br>• Uniform and evenly distributed ground cover sufficient to restrain erosion<br>• Structural methods such as concrete, asphalt or retaining walls<br>• 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 PAMSFlocculants.*
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 PAMSFlocculants a n d* 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. When feasible, either (1) cover waste containers when not being used, or (2) provide a similarly effective means designed to minimize the discharge of pollutants. 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

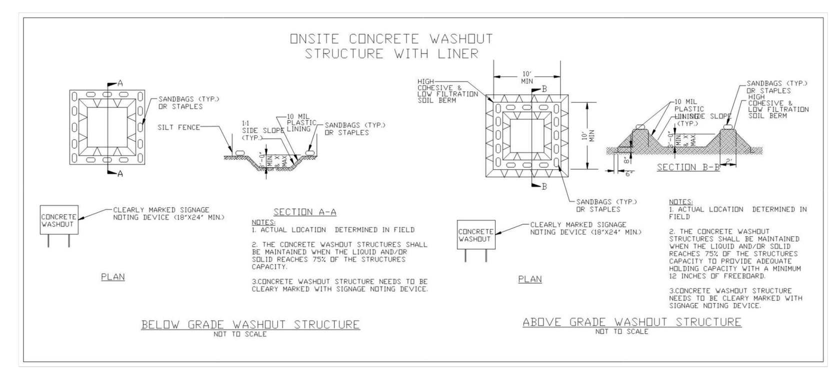
1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, 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. A sign should be installed 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.

# NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

Note: This detail sheet has been modified from the standard NCG01 format

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF KNIGHTDALE, CITY OF RALEIGH PUBLIC UTILITIES, AND NCDOT (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: ____________________ Date: _____________
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: ____________________ Date: _____________
Administrator

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**

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
JACOB ANDERSON
PHONE: 919. 239. 9486

# DOWNTOWN NORTH AT KNIGHTDALE STATION
## CONSTRUCTION DRAWINGS - PHASE 2
N SMITHFIELD ROAD
KNIGHTDALE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 051536 ENGINEER TYLER E. PROBST
PRELIMINARY NOT FOR CONSTRUCTION

**REVISIONS**

| NO. | DATE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

**PLAN INFORMATION**

| | |
|---|---|
| PROJECT NO. | AGN-21002 |
| FILENAME | AGN21002-P2-EC-D1 |
| CHECKED BY | JCM / TEP |
| DRAWN BY | MRC / LRS / RAD |
| SCALE | N.T.S. |
| DATE | 11. 13. 2023 |

**SHEET**

NCGO1

# C6.113

M:\Projects\AGN\AGN21002\04-Production\Engineering\Current Drawings\Construction Drawings Sets\Phase-2\AGN21002-P2-EC-D1.dwg, 11/10/2023 4:20:57 PM, Megan Clifford