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| | SITE 700SITE DETAILSSITE 701SITE DETAILSSITE 702SITE DETAILSSITE 703SITE DETAILSSITE 704SITE DETAILSSITE 705SITE DETAILSSITE 706SITE DETAILSSITE 707SITE DETAILSSITE 708SITE DETAILSSITE 709SITE DETAILSSITE 709SITE DETAILSSITE 709SITE DETAILSSITE 710SITE DETAILSSITE 711SITE DETAILSA1.0FLOOR PLAN-BUILDING 100A2.0EXTERIOR ELEVATIONS BUILDING 101A1.0FLOOR PLAN-BUILDING 102A2.0EXTERIOR ELEVATIONS BUILDING 103A1.0FLOOR PLAN-BUILDING 200A2.0EXTERIOR ELEVATIONS BUILDING 200A2.0EXTERIOR ELEVATIONS BUILDING 200 | Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # <u>S-5454P</u> Authorization to Construct Date Date Public Utilities Department Permit # <u>S-5454P</u> Authorization to Construct Date Date 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. |
| С — | A1.0FLOOR PLAN-BUILDING 201A2.0EXTERIOR ELEVATIONS BUILDING 201A1.0FLOOR PLAN-BUILDING 202A2.0EXTERIOR ELEVATIONS BUILDING 202A3.0BUILDING ELEVATIONS-BUILDING 100A3.1BUILDING ELEVATIONS-BUILDING 101A3.2BUILDING ELEVATIONS-BUILDING 102A3.3BUILDING ELEVATIONS-BUILDING 103A3.4BUILDING ELEVATIONS-BUILDING 201A3.5BUILDING ELEVATIONS-BUILDING 201A3.6BUILDING ELEVATIONS-BUILDING 202A5.0MATERIAL SELECTIONSRW-01RETAINING WALL TITLE SHEETRW-02RETAINING WALL 1PROFILERW-03RETAINING WALL 2 PROFILERW-04RETAINING WALL 2 PROFILERW-05RETAINING WALL 4 PROFILERW-06RETAINING WALL 4 PROFILERW-07RETAINING WALL 6 PROFILERW-08RETAINING WALL 6 PROFILERW-09ANCHOR DIAMOND PRO PS UNIT DETAILSRW-10ADDITIONAL DETAILSRW-11SPECIFICATIONS | City of Raleigh Public Utilities Department Permit # |
| | Sector | SAMUEL R. NYE, PE THE SITE GROUP, PLLC 1111 OBERLIN ROAD RALEIGH, NC 27605 PHONE: (919) 835–4787 FAX: (919) 839–2255 EMAIL: srn@thesitegroup.net KNIGHTDALE PUBLIC WORKS 919–217–2250 SWENGINEER@KNIGHTDALENC.GOV GIDEON SMITH DEVELOPMENT SERVICES SENIOR PLANNER – CURRENT 919–217–2245 GIDEON.SMITHØKNIGHTDALENC.GOV JOHN STOVER INSPECTIONS MANAGER, TOK PUBLIC WORKS 919–349–2521 JOHN.STOVER@KNIGHTDALENC.GOV IKE ARCHER STORWMATER MANAGER, PUBLIC WORKS 919–217–2255 IKE-ARCHER@KNIGHTDALENC.GOV DYLAN KIRK STORWMATER TECH, PUBLIC WORKS 919–217–2256 DYLAN.KIRKØKNIGHTDALENC.GOV DYLAN KIRK STORWMATER TECH, PUBLIC WORKS 919–217–2256 DYLAN.KIRKØKNIGHTDALENC.GOV |
| | & Boarding r. Indoor Amusements C. Banks, Credit Unions, Financial Services d. Business Support Services Child/Adult Day Care Home (Fewer than 6 people) t. Cultural or Community Facility | CODE ENFORCEMENT OFFICER 919-217-2248 DONOVAN.APPLEWHITE@KNIGHTDALENC.GOV a. Town Certification. This design has been reviewed by the Engineer for the Town of |
| В — | f. Child/Adult Day Care Center u. Movie Theater (6 or more people) v. Indoor Recreation Facility Community Service v. Live Performance Theater Organization x. Neighborhood Manufacturing h. Government Services y. Wreless Telecommunication i. Medical Services personal Services personal Services personal Services s. Studio - Art, dance, martial aa. Solar Energy Collection - arts, music Roof/Building/Structure l. Studio - Art, dance, martial aa. Solar Energy Collection - arts, music Roof/Building/Structure l. Studio - Art, dance, martial aa. Solar Energy Collection - arts, music Roof/Building Mounted m. Bar, Tavern, Microbrewery b. Mobile MRI Unit n. General Retail (subject to the additional use (10,000 square feet or less) standard outlined in the PUD o. Neighborhood Document) Retail/Restaurant (2,000 square feet or less) 10. The following uses shall be expressly prohibited, and all other uses not expressly permitted shall be prohibited, in any of the buildings constructed on either the Knightdale Station Commercial - Carolinian Avenue site or the Knightdale Station Commercial - Carolinian Avenue site or the Knightdale Station Commercial - Medical Cannabis Centers b. Dwelling-Multifamily, q. Cernetaries d. Wireless Telecommunication a. Dwelling-Multifamily, f. Carolinian Multifamily, f. Centeries f. Dwelling-Single Family f. Cillity - Small Wireless f. Ownhouse, 4 units/olg,<!--</td--><td>a. 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. In the event of a conflict or inconsistency between these construction drawings and the Town of Knightdale 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</td> | a. 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. In the event of a conflict or inconsistency between these construction drawings and the Town of Knightdale 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 |
| | I. Gas Station with Ground Mounted Convenience Store The submitted Planned Unit Development document and submitted Master Plan will serve as the site-specific development plan. The Applicant must submit Construction Drawings to the Town that conform to the approved conditions of the NMX-PUD zoning district, Master Plan comments, the Unified Development Ordinance, and comments from the June 8, 2023 DRC meeting. According to Unified Development Ordinance Section 12.2.G.3.f.iii, the Applicant must secure a valid building or construction permit(s) within a 24-month period from date of approval (October 18, 2025), otherwise the ZMA may be subject to recission by Town Council. The vested rights period may be extended as detailed in UDO Section 12.2.G.4. Please don't hesitate to reach out to me if you have any questions. Sincerely, Gideon Smith, AICP | b. 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: |
| | | |

KNIGHTDALE STATION MIXED-U 0 & 7790 Knightdale Blvd htdale, North Carolina

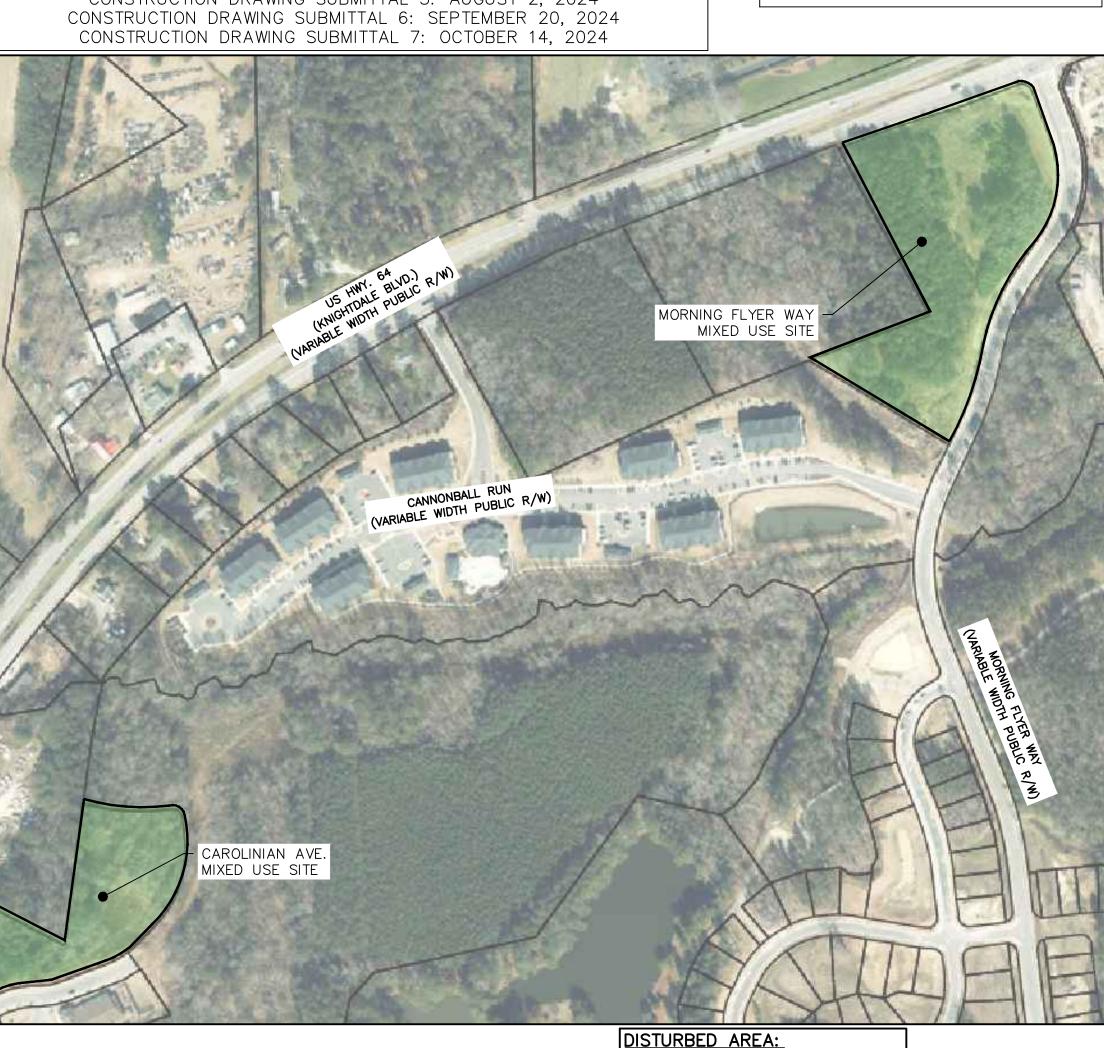
2. & MORNING FLYER WAY MIXED USE SITES ORDINANCE #23-10-18-004 CITY OF RALEIGH-PLANS AUTHORIZED FOR CONSTRUCTION

ZONING MAP AMENDMENT #ZMA-3-23 LAND DISTURBANCE PERMIT #SEC-000009-2024

MASTER PLAN APPROVED: OCTOBER 18,2023 CONSTRUCTION DRAWING SUBMITTAL 1: JANUARY 18, 2024 CONSTRUCTION DRAWING SUBMITTAL 2: FEBRUARY 21, 2024 CONSTRUCTION DRAWING SUBMITTAL 3: APRIL 12, 2024 CONSTRUCTION DRAWING SUBMITTAL 4: JUNE 14, 2024 CONSTRUCTION DRAWING SUBMITTAL 5: AUGUST 2, 2024 CONSTRUCTION DRAWING SUBMITTAL 7: OCTOBER 14, 2024

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 requiremets for development and construcion. The property owner, design consultants, and contractors are each responsible for compliance with all City, State and Federa 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. This approval of this electronic document is only valid if the document has not beer modified and the digital signature below is valid:

C.O.R. Dev. Approval:



| GENERAL N | OTES |
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- 1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH, TOWN OF KNIGHTDALE, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
- 2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
- 4. BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A DIGITAL SURVEY BY NEWCOMB LAND SURVEYOR DATED OCTOBER 27TH 2022.
- 5. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.
- 6. NO GRADING, DEVELOPMENT, OR LAND-DISTURBING ACTIVITIES SHALL OCCUR WITHIN A BUFFER YARD IF FOREST CANOPY, SPECIMEN TREES, OR SIGNIFICANT VEGETATION EXISTS WITHIN THESE AREAS, UNLESS APPROVED BY THE LAND USE ADMINISTRATOR. IF GRADING WITHIN A BUFFER YARD IS PROPOSED, SLOPES OF 1:3 OR LESS ARE ENCOURAGED TO ENSURE THE PROPER TRANSITION OF GRADES TO THE ADJACENT PROPERTY AND TO FACILITATE LANDSCAPING AND MAINTENANCE.
- WATER ALLOCATION POLICY NOTE
- 1. THE WATER ALLOCATION POLICY HAS BEEN MET AND THE PROPOSED DEVELOPMENT REMAINS CONSISTENT WITH THAT PRIOR APPROVAL.

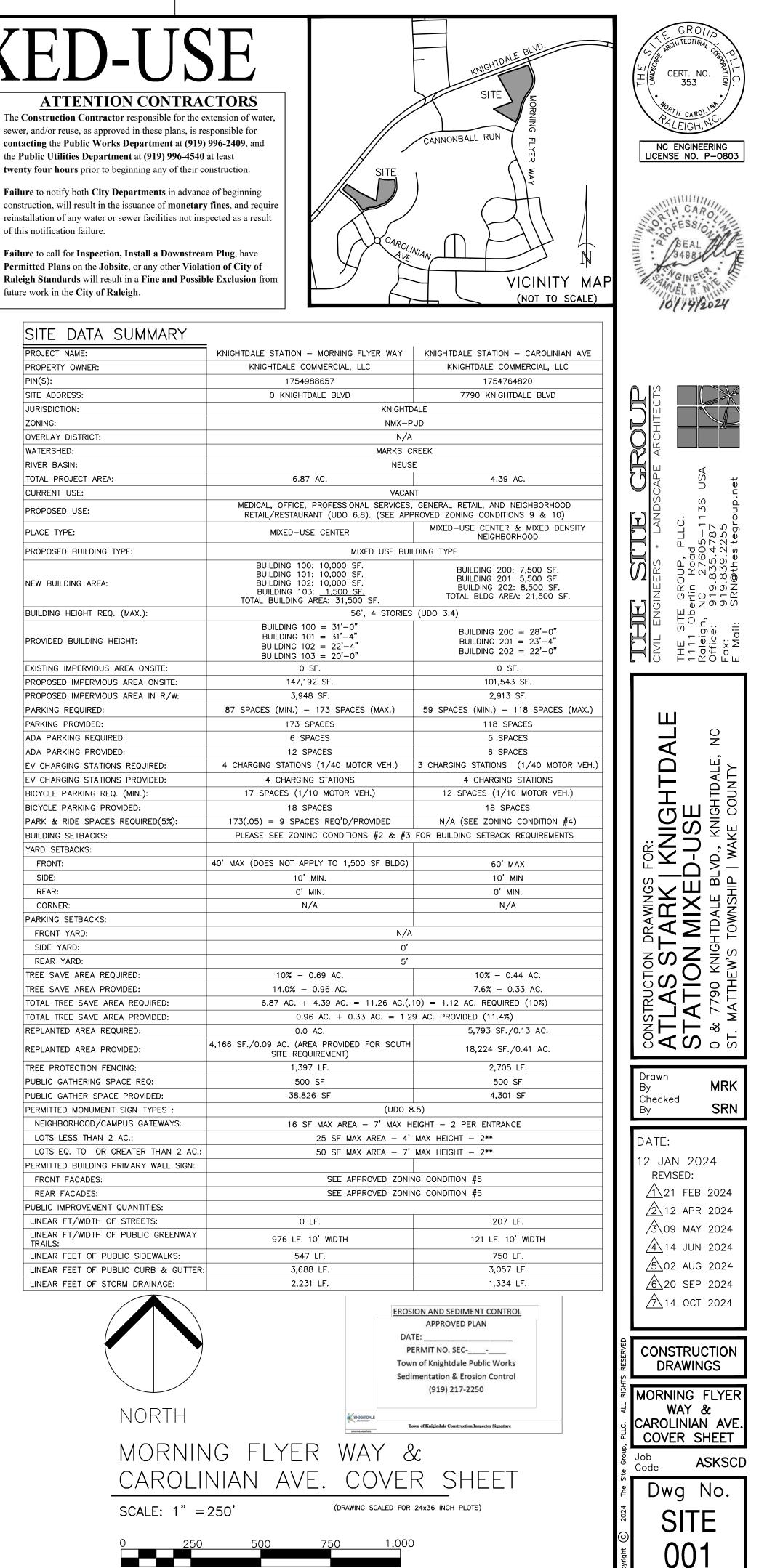
6.24 AC. (MORNING FLYER) 4.74 AC. (CAROLINIAN) 10.98 AC. (TOTAL BOTH SITES) INFRASTRUCTURE QUANTITIES: CAROLINIAN AVE MORNING FLYER WAY PHASE NUMBER 2 PHASES PHASES NUMBER OF LOTS LOT NUMBERS BY PHASE NUMBER OF UNITS (BLDGS) LIVABLE BUILDINGS (COMMERCIAL BUILDINGS NOT LIVABLE DWELLINGS) PUBLIC WATER (LF) 0 LF 200 LF PUBLIC GRAVITY SEWER (LF) 0 LF 0 LF PRIVATE GRAVITY SEWER (LF) 1,233 LF

| | | | | - | | | | 400 1/510 | _ |
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| LOODPLAIN NOTE: | | | | | | | | | |
| STUB COUNT I | INCLUDES | TIE-IN | POINTS | THAT | NEED | то | BE | INSPECTED | |
| PUBLIC STREET PUBLIC SIDEWAI VATER SERVICE SEWER SERVICE | LK (LF) STUBS | | 207 750 5* 4* | | | | | 0 LF 547 LF 4* 3* | |
| | | | | | | | | | |

582 LF

- THIS PROPERTY IS LOCATED OUTSIDE THE WAKE COUNTY 100 YEAR FUTURE CONDITIONS FLOODPLAIN (1% FUTURE CONDITIONS FLOODPLAIN"). FEMA REFERENCE DATA:
- FEMA FIRM PANEL No .: EFFECTIVE DATE: FEMA STREAM NAME: FEMA FLOOD ZONE:
- <u>3720175400K</u> JULY 19, 202 Shade Zone X(0.2% annual chance flood)

FOR SITES WITHOUT FLOODPLAIN: THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FIRM PANEL 3720175400K DATED JULY 19, 2022.



| GENERAL NOTES | GRADING NOTES |
|--|--|
| 1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH, TOWN OF KNIGHTDALE, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS. | 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING, AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED AT LEAST 48 HOURS PRIOR TO BEGINNING DEMOLITION, EXCAVATION, OR ANY OTHER FORM OF CONSTRUCTION. THE |
| 2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. | CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS. 2. EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR |
| CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION. | DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE. |
| 4. BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A DIGITAL SURVEY BY NEWCOMB LAND SURVEYOR DATED OCTOBER 27TH 2022. | THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL PERMITS, INSPECTIONS, CERTIFICATIONS, AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT ARE OBTAINED. |
| ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS. NO GRADING, DEVELOPMENT, OR LAND-DISTURBING ACTIVITIES SHALL OCCUR WITHIN A BUFFER YARD IF FOREST CANOPY, SPECIMEN TREES, OR SIGNIFICANT VEGETATION EXISTS WITHIN THESE AREAS, UNLESS APPROVED BY THE LAND USE ADMINISTRATOR. IF GRADING WITHIN A BUFFER YARD IS PROPOSED, | 4. IF DEPARTURES FROM THIE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREFOR SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE. |
| SLOPES OF 1:3 OR LESS ARE ENCOURAGED TO ENSURE THE PROPER TRANSITION OF GRADES TO THE ADJACENT PROPERTY AND TO FACILITATE LANDSCAPING AND MAINTENANCE. | 5. THE ENGINEER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS. |
| WATER ALLOCATION POLICY NOTE | THE STREETS IN FRONT OF THE PROJECT WILL BE KEPT CLEAN AT ALL TIME OR A WASH STATION WILL BE REQUIRED. ALL SLOPES EQUAL TO 2:1 SHALL BE STABILIZED WITH PERMANENT SLOPE |
| 1. THE WATER ALLOCATION POLICY HAS BEEN MET AND THE PROPOSED DEVELOPMENT REMAINS CONSISTENT WITH THAT PRIOR APPROVAL. | RETENTION OR A SUITABLE COMBINATION OF PLANTINGS AND RETENTION DEVICES. 8. SLOPES STEEPER THAN 3:1 BUT LESS THAN 2:1 SHALL BE STABILIZED WITH PERMANENT GROUNDCOVER, NOT WITH TURF GRASS. |
| 1. LANDSCAPE AREAS REQUIRED BY CHAPTER 7 OF THE UDO SHALL NOT CONTAIN | REQUIRED TOWN OF KNIGHTDALE SCM BASIN REMOVAL SEQUENCE 1. SCHEDULE A SITE MEETING WITH THE TOWN OF KNIGHTDALE EROSION CONTROL |
| ANY DEVELOPMENT, IMPERVIOUS SURFACES, OR SITE FEATURES THAT DO NOT FUNCTION TO MEET THE APPLICABLE STANDARDS FOR THAT AREA OR THAT REQUIRE REMOVAL OF EXISTING SIGNIFICANT VEGETATION [UDO SECT. 7.4.E.1]. | 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. CONTACT NCDEQ - RALEIGH REGIONAL OFFICE (919) 791-4200 TO DETERMINE THE DIVISION OF ENERGY, MINERAL AND LAND RESOURCES CONTACT PERSON TO RECEIVE DEMOTERING NUMBERS AND LAND RESOURCES CONTACT PERSON TO RECEIVE |
| 2. NO GRADING, DEVELOPMENT OR LAND-DISTURBING ACTIVITIES SHALL OCCUR WITHIN A BUFFER YARD IF FOREST CANOPY, SPECIMEN TREES OR SIGNIFICANT VEGETATION EXISTS WITHIN THESE AREAS UNLESS APPROVED BY THE LAND USE ADMINISTRATOR. IF GRADING WITHIN A BUFFER YARD IS PROPOSED, SLOPES OF 1:3 OR LESS ARE ENCOURAGED TO ENSURE THE PROPER TRANSITION OF GRADES TO THE ADJACENT PROPERTY AND TO FACILITATE LANDSCAPING AND | DEWATERING NOTIFICATIONS. AT LEAST 10 DAYS PRIOR TO BEGINNING DEWATERING ACTIVITY, SEND EMAIL TO NCDEQ-DEMLR CONTACT PERSON AND COPY ENVIRONMENT/ CONSULTANT THAT MET YOU ONSITE. THE EMAIL SHOULD INCLUDE E&SC JURISDICTION TOWN OF KNIGHTDALE, TOK 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 NPDI MONITORING DOCUMENTATION. |
| 3. ALL AREAS WITHIN REQUIRED BUFFER YARDS, STREAM BUFFERS, SLOPE AREAS GREATER THAN 25% AND WETLANDS ARE TREE SAVE AREAS AND ALL | 3. AFTER RECEIVING POSITIVE CONFIRMATION FROM NCDEQ-DEMLR THAT YOU MAY REMO 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. |
| VEGETATION AND SOIL IS TO REMAIN UNDISTURBED [UDO SECT. 7.4.H.1]. | PERFORM SEEDBED PREPARATION, SEED, MULCH AND ANCHOR ANY RESULTING BARE AREAS IMMEDIATELY USING NON-CLUMPING TURF GRASS (CENTIPEDE / HYBRID BERMUDA) |
| 4. ALL TREES GREATER THAN 12" DBH WITHIN FRONT SETBACK AREAS, STREET TREE PLANING STRIP AND SLOPE AREAS OF 15–25% ARE TO REMAIN UNDISTURBED OR REPLACEMENT TREES ARE REQUIRED AT A RATE OF 1 TREE PER 12" DBH AND SHOULD BE INCORPORATED INTO OPEN SPACE AMENITIES/PUBLIC GATHERING AREAS/PEDESTRIAN PLAZA WHENEVER POSSIBLE. REQUIRED STREET TREES, PARKING LOT LANDSCAPING AND BUFFER YARD PLANTINGS ARE NOT TO BE COUNTED TOWARDS REPLACEMENT REQUIREMENTS | INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN. 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 SHOUL ALSO BE SCHEDULED WITH THE EROSION CONTROL INSPECTOR AND STORMWATER TECHNICIAN TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER US |
| [UDO SECT. 7.4.H.1]. ALL TREES GREATER THAN 24" DBH ON-SITE ARE TO REMAIN UNDISTURBED OR REPLACEMENT TREES ARE REQUIRED AT A RATE OF 1 TREE PER 12" DBH AND SHOULD BE INCORPORATED INTO OPEN SPACE AMENITIES/PUBLIC GATHERING AREAS/PEDESTRIAN PLAZA WHENEVER POSSIBLE. REQUIRED STREET TREES, PARKING LOT LANDSCAPING AND BUFFER YARD PLANTINGS ARE NOT TO BE COUNTED TOWARDS REPLACEMENT REQUIREMENTS [UDO SECT. 7.4.H.1]. | TOWN OF KNIGHTDALE SCM INSPECTIONS WHEN SCHEDULING INSPECTIONS, PLEASE CALL THE PUBLIC WORKS ADMINISTRATIVE ASSISTANT AT (919) 217–2250. PLEASE NOTE: THE FOLLOWING PERSONNEL MUST BE PRESENT AT ALL INSPECTIONS: 1) SITE SUPERVISOR 2) GEOTECH 3) AS-BUILT CERTIFYING ENGINEER OR SOMEONE UNDER THEIR SUPERVISION THE FOLLOWING ITEMS MUST BE INSPECTED BY TOK STAFF DURING THE INSTALLATION OF ANY SCM WITH DAM: 1. KEY TRENCH EXCAVATION 2. PRINCIPAL SPILLWAY PIPE AND ASSOCIATED COMPONENTS: |
| THROUGH THE PROTECTION OF TREES AND EXISTING VEGETATION, THE TOWN ENCOURAGES NEW DEVELOPMENT TO BE CREATIVE IN DESIGN AND PLACEMENT OF BUILDINGS, STRUCTURES, PARKING, AND OTHER IMPERVIOUS SURFACES AS | a. CONCRETE CRADLE b. ANTI-SEEP COLLAR c. SEEPAGE DIAPHRAGM 3. OUTLET STRUCTURE 4. ANTI-FLOTATION BALLAST 5. ANY SITE-CONSTRUCTED REINFORCED CONCRETE STRUCTURES |
| TO PRESERVE NATURAL FEATURES AND TO COMPLEMENT THE EXISTING TOPOGRAPHY WHEN PRACTICAL. NO TREE GREATER THAN TWELVE (12) INCHES IN DIAMETER AT BREAST HEIGHT (DBH: MEASURED AT 4.5 FEET ABOVE GRADE) LOCATED ON PUBLIC PROPERTY OR WITHIN A REQUIRED TREE PROTECTION AREA (SECTION 7.4) SHALL BE REMOVED FOR THE PURPOSE OF SURVEYING WITHOUT APPROVAL FROM THE LAND USE ADMINISTRATOR. [UDO SECT. | d. DAM ITEMS ON PREVIOUS LIST IF APPLICABLE |
| 7.4.D.4.a.ii.a] 7. TREE PROTECTION FENCES SHALL BE PLACED AROUND ALL PROTECTED TREES DESIGNATED TO BE SAVED PRIOR TO THE START OF DEVELOPMENT ACTIVITIES OR GRADING IN ACCORDANCE WITH STANDARD 2.10 OF THE TOWN OF KNIGHTDALE STANDARD SPECIFICATIONS AND DETAILS MANUAL. TREE PROTECTION FENCES SHALL REMAIN IN PLACE UNTIL DEVELOPMENT ACTIVITIES ARE COMPLETED. TO PREVENT UNINTENDED COMPACTION OF SOIL, THE AREA WITHIN THE PROTECTIVE BARRICADE SHALL REMAIN FREE OF ALL BUILDING MATERIALS, DIRT OR OTHER CONSTRUCTION DEBRIS, CONSTRUCTION TRAFFIC, STORAGE OF | <u>GEOTECHNICAL TESTING AND CERTIFICAITON</u> ALL REPORTS ARE TO BE SUBMITTED WITHIN 30-DAYS OF DAM COMPLETION REQUIRED GEOTECHNICAL RECORDS INCLUDE: 1. DAM EMBANKMENT MATERIAL COMPOSITION AND DENSITY TESTING 2. MAP THAT LABELS ALL POINTS WHERE THE DAM AND DAM FOUNDATION AREA: WERE TESTED 3. DIGITAL PHOTOS SHOWING THE DAM FOUNDATION AREAS, THE RISER, THE PRINCLIPLE SPILLWAY PIPE, THE CONCRETE CRADLE, THE SEEPAGE DIAPHRAM, RELIEF DRAINS, ETC., BEING INSTALLED. <u>TOWN OF KNIGHTDALE SCM PLANTING NOTES</u> 1. THE DAM STRUCTURE, INCLUDING FRONT AND BACK EMBANKMENT SLOPES, OF TH POND SHALL BE VEGETATED WITH NON-CLUMPING TURF GRASS OR SOD. |
| VEHICLES AND MATERIALS, AND MASS GRADING. [UDO SECT. 7.4.D.4.d.ii.b] 8. EXCEPT FOR DRIVEWAY ACCESS POINTS, SIDEWALKS, CURB, AND GUTTER: NO PAVING WITH CONCRETE OR OTHER IMPERVIOUS MATERIALS WITHIN FIVE (5) FEET OF A TREE DRIP LINE SHALL BE ALLOWED UNLESS OTHERWISE APPROVED. WHERE GRADING WITHIN A TREE DRIPLINE CANNOT BE AVOIDED, CUT AND FILL SHALL BE LIMITED TO ONE-QUARTER (1/4) TO ONE-HALF (1/2) OF THE AREA | (CENTIPEDE/HYBRID-BERMUDA) 90% GERMINATION OF NON-CLUMPING TURF WILL REQUIRED PRIOR TO FINAL CERTIFICATION FORM THE TOWN. 2. THE VEGETATED SHELF SHALL BE PLANTED WITH A MINIMUM OF THREE DIVERSE SPECIES OF HERBACEOUS, NATIVE VEGETATION AT A MINIMUM DENSITY OF 50 PLANTS PER 200 FEET OF SHELF AREA. 3. CONTRACTOR TO WORK WITH SOILS SCIENTIST TO ENSURE SOILS ARE ADEQUATE SUPPORT PROPER ESTABLISHMENT AND GROWTH OF THE AQUATIC PLANTINGS. CONTRACTOR TO AMEND SOILS AND INSTALL SOILS IN PLANT, SHRUB, AND TREE AREAS PER DETAILS, SOIL SPECIFICATIONS. NCDENR SPECIFICATION, AND SOIL SCIENTIST RECOMMENDATIONS. |
| WITHIN THE DRIPLINE, AND TREE ROOTS MUST BE PRUNED WITH CLEAN CUTS AT THE EDGE OF THE DISTURBED AREA. NO FILL SHALL BE PLACED WITHIN THE DRIPLINE OF A TREE WITHOUT VENTING TO ALLOW AIR AND WATER TO REACH THE ROOTS. [UDO SECT. 7.4.D.4.a.ii.c] | ALL AQUATIC PLANTINGS ARE TO BE INSTALLED DURING THE APPROPRIATE TIME OF YEAR TO ENSURE SURVIVABILITY. (LAST SPRING FROST AND THE FIRST FALL FROM 5. ALL DISTURBED AREAS AROUND THE OUTSIDE OF THE DEVICE SHALL BE SEEDED WITH A LAWN AREA SEED MIX (PER SEEDING SPECIFICATIONS) NATIVE GRASSES, LEGUMES, CLOVERS, AND WILDFLOWERS. IF THE DEVICE WAS USED DURING CONSTRUCTION AS A SEDIMENT BASIN OR TRAF THE BASIN MUST BE CLEANED OUT, GRADED, APPROPRIATE AREAS COVERED WITH 4"OF TOPSOIL AS SPECIFIED IN NOTE #2 ABOVE, AND VEGETATED WITHIN 14 DAY OF THE COMPLETION OF CONSTRUCTION. |
| STREET TREE REPLACEMENT NOTE: ANY EXISTING STREET TREE PROPOSED TO BE REMOVED WILL BE REPLANTED IN | OF THE COMPLETION OF CONSTRUCTION. 7. CONTRACTOR SHALL WATER ALL VEGETATION AND GRASS ON A WEEKLY BASIS AS NEEDED TO ENSURE GRASS AND PLANT SURVIVAL UNTIL AFTER THE SCM IS CERTIFIED AND ACCEPTED BY THE TOWN. |
| ACCORDANCE WITH THE STREET TREE LOCATIONS PER THE APPLICABLE ROADWAY CROSS-SECTION OUTLINED IN SECTION 10.4.A OF THE UDO | STORMWATER CONTROL MEASURE CONSTRUCTION SEQUENCE THE FOLLOWING MUST OCCUR PRIOR TO FINAL PLAT AND/OR CERTIFICATE OF OCCUP |
| FIRE ACCESS NOTES | (CO): 1. ALL STORMWATER CONTROL MEASURES (SCMS) MUST BE INSTALLED IN ACCORDAT |
| OF THE BUILDING FOR NON-SPRINKLERED BUILDINGS, AND 600' FOR SPRINKLERED (NCFC 507.5.1). | WITH THE APPROVED CONSTRUCTION DRAWINGS. 2. DURING THE SCM CONVERSION PROCESS, ALL EFFORTS SHALL BE MADE TO PROT DOWNSTREAM WATER RESOURCES. THE DRAIN VALVE SHALL NOT BE LEFT OPEN ANY TIME DURING SCM CONVERSION. A SKIMMER DRAWDOWN SYSTEM SHALL BE INSTALLED AND UTILIZED UNTIL THE SCM IS FULLY CONVERTED. 3. THE REQUIRED LANDSCAPING SHALL BE INSTALLED DURING THE APPROPRIATE GR |
| ALL PORTIONS OF THE BUILDINGS MUST BE WITHIN 150' OF THE APPARATUS ACCESS ROAD SURFACE (503.1.1 NCFC), 200' WITH A 13R SPRINKLER SYSTEM, AND 250' FOR 13 SYSTEM. | SEASON AND COORDINATED WITH THE TOWN ZONING COMPLIANCE OFFICER PRIOR INSTALLATION. 4. AS-BUILT TOPOGRAPHY OF THE BASIN IS REQUIRED PRIOR TO CONVERSION. AFTI MOST OF SITE IS STABILIZED AND READY FOR CONVERSION, DRAIN AND MUCKED POND. HAVE SURVEYOR COMPLETE TOPOGRAPHY AND SEND TO DESIGN ENGINEER |
| WE ARE SHOWING THE HOSE LAYING LENGTHS FROM FIRE HYDRANTS AND DISTANCES FROM FIRE ACCESS ROADS ON THIS SHEET. | RECORD FOR REVIEW. ENGINEER WILL VERIFY DIMENSIONS AND AUTHORIZE PLANTI LITTORAL SHELF. |
| STRIPING NOTES | |
| 1. ALL MARKINGS AND SIGNAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH MUTCD STANDARDS, INCLUDING COLOR, LETTER HEIGHT, AND LETTER CASE OF THE STREET NAMES. | |
| 2. ALL PAVEMENT MARKING SHALL BE THERMOPLASTIC. | |

NG NOTES

- NTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING, YMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING DENT LOCATING SERVICES. THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED AT LEAST 48 HOURS PRIOR TO BEGINNING ION. EXCAVATION. OR ANY OTHER FORM OF CONSTRUCTION. THE CTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF CREPANCIES OR CONFLICTS.
- IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL ON AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NTRACTOR'S EXPENSE.
- NTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL PERMITS. IONS, CERTIFICATIONS, AND OTHER REQUIREMENTS WHICH MUST BE DER THIS CONTRACT ARE OBTAINED.
- RTURES FROM THIE PROJECT DRAWINGS OR SPECIFICATIONS ARE NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES ASONS THEREFOR SHALL BE SUBMITTED TO THE OWNER'S ENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. NO DEPARTURES HE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS PERMISSION OF THE OWNER'S REPRESENTATIVE.
- GINEER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND/OR S ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
- REETS IN FRONT OF THE PROJECT WILL BE KEPT CLEAN AT ALL TIME: ASH STATION WILL BE REQUIRED
- PES EQUAL TO 2:1 SHALL BE STABILIZED WITH PERMANENT SLOPE IN OR A SUITABLE COMBINATION OF PLANTINGS AND RETENTION DEVICES.
- STEEPER THAN 3:1 BUT LESS THAN 2:1 SHALL BE STABILIZED WITH INT GROUNDCOVER, NOT WITH TURF GRASS.

TOWN OF KNIGHTDALE SCM BASIN REMOVAL SEQUENCE

- LE A SITE MEETING WITH THE TOWN OF KNIGHTDALE EROSION CONTROL OR TO DETERMINE IE A BASIN CAN BE REMOVED INSTALL SILT FENCING OF TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF
- NCDEQ RALEIGH REGIONAL OFFICE (919) 791-4200 TO DETERMINE THE OF ENERGY, MINERAL AND LAND RESOURCES CONTACT PERSON TO RECEIVE RING NOTIFICATIONS. AT LEAST 10 DAYS PRIOR TO BEGINNING DEWATERING SEND EMAIL TO NCDEQ-DEMLR CONTACT PERSON AND COPY ENVIRONMENT TANT THAT MET YOU ONSITE. THE EMAIL SHOULD INCLUDE E&SC JURISDICTION F KNIGHTDALE, TOK PROJECT: NAME, NUMBER, AND LOCATION (CITY/TOWN) IMENTAL CONSULTANT NAME, AND ADDRESS THE FOLLOWING: A) REASON FOR SION, B) BASIN #, C) DEWATERING METHOD, AND D) ALL OTHER NECESSARY OM PART II, SECTION G, ITEM 4 OF THE NCG01. (KEEP EMAIL FOR YOUR NPDE RING DOCUMENTATION RECEIVING POSITIVE CONFIRMATION FROM NCDEQ-DEMLR THAT YOU MAY REMOVE SIN OR ON > DAY 11. WHICHEVER IS SOONER. REMOVE BASIN(S) AND TED TEMPORARY DIVERSION DITCHES. IF PIPES NEED TO BE EXTENDED.
- M SEEDBED PREPARATION, SEED, MULCH AND ANCHOR ANY RESULTING BARE
- IMMEDIATELY USING NON-CLUMPING TURF GRASS (CENTIPEDE / HYBRID VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE CONTROL PLAN. TE IS FULLY STABILIZED, CALL EROSION CONTROL INSPECTOR FOR APPROVAL VING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON TE CAN BE ISSUED A CERTIFICATE OF COMPLETION. NOTE: A MEETING SHOUL SCHEDULED WITH THE EROSION CONTROL INSPECTOR AND STORMWATER

<u>NOF KNIGHTDALE SCM INSPECTIONS</u> SCHEDULING INSPECTIONS, PLEASE CALL THE PUBLIC WORKS ADMINISTRATIVE

- ANT AT (919) 217-2250. NOTE: THE FOLLOWING PERSONNEL MUST BE PRESENT AT ALL INSPECTIONS: TE SUPERVISOR
- S-BUILT CERTIFYING ENGINEER OR SOMEONE UNDER THEIR SUPERVISION LLOWING ITEMS MUST BE INSPECTED BY TOK STAFF DURING THE INSTALLATION SCM WITH DAM:
- TRENCH EXCAVATION PRINCIPAL SPILLWAY PIPE AND ASSOCIATED COMPONENTS: CONCRETE CRADLE
- ANTI-SEEP COLLAR SEEPAGE DIAPHRAGM
- DUTLET STRUCTURE ANTI-FLOTATION BALLAST
- ANY SITE-CONSTRUCTED REINFORCED CONCRETE STRUCTURES LLOWING ITEMS MUST BE INSPECTED BY TOK STAFF DURING THE INSTALLATION
- SAND FILTERS OR BIORETENTION DEVICES SUBGRADE OR CONSTRUCTED FOUNDATION OUTLET OR RISER IN COMBINATION WITH CONNECTING UNDERDRAINS FILTER MEDIA
- d. DAM ITEMS ON PREVIOUS LIST IF APPLICABLE
- <u>CHNICAL TESTING AND CERTIFICAITON</u> PORTS ARE TO BE SUBMITTED WITHIN 30-DAYS OF DAM COMPLETION D GEOTECHNICAL RECORDS INCLUDE:
- AM EMBANKMENT MATERIAL COMPOSITION AND DENSITY TESTING IAP THAT LABELS ALL POINTS WHERE THE DAM AND DAM FOUNDATION AREAS
- NERE TESTED DIGITAL PHOTOS SHOWING THE DAM FOUNDATION AREAS, THE RISER, THE PRINCLIPLE SPILLWAY PIPE, THE CONCRETE CRADLE, THE SEEPAGE DIAPHRAM, RELIEF DRAINS, ETC., BEING INSTALLED.

OF KNIGHTDALE SCM PLANTING NOTES

- D SHALL BE VEGETATED WITH NON-CLUMPING TURF GRASS OR SOD. NTIPEDE /HYBRID-BERMUDA) 90% GERMINATION OF NON-CLUMPING TURF WILL BE UIRED PRIOR TO FINAL CERTIFICATION FORM THE TOWN. VEGETATED SHELF SHALL BE PLANTED WITH A MINIMUM OF THREE DIVERSE
- CIES OF HERBACEOUS, NATIVE VEGETATION AT A MINIMUM DENSITY OF 50 ITS PER 200 FEET OF SHELF AREA. TRACTOR TO WORK WITH SOILS SCIENTIST TO ENSURE SOILS ARE ADEQUATE TO PORT PROPER ESTABLISHMENT AND GROWTH OF THE AQUATIC PLANTINGS. TRACTOR TO AMEND SOILS AND INSTALL SOILS IN PLANT, SHRUB, AND TREE
- AS PER DETAILS, SOIL SPECIFICATIONS. NCDENR SPECIFICATION, AND SOIL NTIST RECOMMENDATIONS. AQUATIC PLANTINGS ARE TO BE INSTALLED DURING THE APPROPRIATE TIME OF
- AR TO ENSURE SURVIVABILITY. (LAST SPRING FROST AND THE FIRST FALL FROST). DISTURBED AREAS AROUND THE OUTSIDE OF THE DEVICE SHALL BE SEEDED
- A LAWN AREA SEED MIX (PER SEEDING SPECIFICATIONS) NATIVE GRASSES, JMES. CLOVERS. AND WILDFLOWERS. HE DEVICE WAS USED DURING CONSTRUCTION AS A SEDIMENT BASIN OR TRAP,
- BASIN MUST BE CLEANED OUT, GRADED, APPROPRIATE AREAS COVERED WITH TOPSOIL AS SPECIFIED IN NOTE #2 ABOVE, AND VEGETATED WITHIN 14 DAYS THE COMPLETION OF CONSTRUCTION. TRACTOR SHALL WATER ALL VEGETATION AND GRASS ON A WEEKLY BASIS AS
- DED TO ENSURE GRASS AND PLANT SURVIVAL UNTIL AFTER THE SCM IS TIFIED AND ACCEPTED BY THE TOWN.

MWATER CONTROL MEASURE CONSTRUCTION SEQUENCE LLOWING MUST OCCUR PRIOR TO FINAL PLAT AND/OR CERTIFICATE OF OCCUPANCY

- STORMWATER CONTROL MEASURES (SCMS) MUST BE INSTALLED IN ACCORDANCE THE APPROVED CONSTRUCTION DRAWINGS.
- RING THE SCM CONVERSION PROCESS, ALL EFFORTS SHALL BE MADE TO PROTECT WNSTREAM WATER RESOURCES. THE DRAIN VALVE SHALL NOT BE LEFT OPEN AT TIME DURING SCM CONVERSION. A SKIMMER DRAWDOWN SYSTEM SHALL BE ALLED AND UTILIZED UNTIL THE SCM IS FULLY CONVERTED.
- REQUIRED LANDSCAPING SHALL BE INSTALLED DURING THE APPROPRIATE GROWING SON AND COORDINATED WITH THE TOWN ZONING COMPLIANCE OFFICER PRIOR TO TALLATION
- -BUILT TOPOGRAPHY OF THE BASIN IS REQUIRED PRIOR TO CONVERSION. AFTER T OF SITE IS STABILIZED AND READY FOR CONVERSION, DRAIN AND MUCKED OUT D. HAVE SURVEYOR COMPLETE TOPOGRAPHY AND SEND TO DESIGN ENGINEER OF ORD FOR REVIEW. ENGINEER WILL VERIFY DIMENSIONS AND AUTHORIZE PLANTING ORAL SHELF

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| = | | N SEQUENCE MORNING FLYER WAY |
| | 1. REQUEST PRECONSTRUC | TION MEETING. |
| | 2. INSTALL TREE PROTECTION | ON FENCING AND CONTACT THE TOWN OF KNIGHTDALE INSPECTOR FOR APPROVAL. |
| | 3. OBTAIN GRADING PERMI | Г. |
| | 4. CLEAR ONLY WHAT IS N | ECESSARY FOR INSTALLATION OF EROSION CONTROL MEASURES. |
| | | RIMETER SILT AND TREE FENCING. INSTALL INLET PROTECTION ON EXISTING INLETS. INSTALL BASIN, DIVERSION AS NECESSARY TO INSTALL THESE DEVICES. |
| | JB 51, JB 50, AND RC WEATHER. PROTECT TRE STANDARD DETAIL ON S TEMPORARY DIVERSION REESTABLISH DITCH PRI | DIVERSION PIPING AND STRUCTURES AS SHOWN ON INITIAL EROSION CONTROL PLAN. INSTALL JB 53, JB 52, CP STORM PIPES TO DIVERT OFFSITE STORMWATER THRU SITE. INSTALL PIPING DURING A PERIOD OF DRY ENCH BY STOCKPILING EXCAVATION MATERIAL ON UPHILL SIDE OF TRENCH. AT THE END OF EACH DAY UTILIZE SHEET SITE 708 FOR STANDARD PIPE INLET PROTECTION (PLYWOOD AND STONE). TRENCH CROSSING OF DITCH TO BE PLANNED FOR A PERIOD OF DRY WEATHER. BACKFILL AREA OF TRENCH AT CROSSING AND OR TO CONCLUDING DAYS WORK. [BLOCK INLETS/TOPS FOR CLEAN WATER DIVERSION SO SEDIMENT-LADEN PASS THE SEDIMENT SKIMMER BASIN] |
| | 5. INSTALL ALL REMAINING | EROSION CONTROL MEASURES AS SHOWN ON THE INITIAL EROSION CONTROL PLAN, SITE 302. |
| | 6. OBTAIN CERTIFICATE OF | COMPLIANCE THROUGH ON-SITE INSPECTION BY EROSION CONTROL OFFICER. |
| | 7. BEGIN CONSTRUCTION A | IS SHOWN ON PLANS. PROCEED WITH ROUGH GRADING. |
| | 8. COMPACT NEW BACKFILI | L MATERIAL PER SPECIFICATIONS. |
| | 9. CLEAN SEDIMENT BASIN | WHEN ONE-HALF FULL. |
| ·c | | JDED AREA WITHIN 15 DAYS AFTER ANY PHASE OF GRADING AND/OR AS SPECIFIED D STABILIZATION CHART, WHICHEVER IS MORE RESTRICTIVE. |
| S | | SHED GRADE AND INSTALL RETAINING WALLS. ADJUST DIVERSION DITCHES AS T SEDIMENT FROM LEAVING THE SITE. |
| | | ION AROUND ALL NEW CATCH BASINS AS THEY ARE INSTALLED. |
| | | S SUBSTANTIALLY COMPLETE AND THE SITE IS STABILIZED TO THE EXTENT POSSIBLE, KNIGHTDALE FOR INSPECTION. |
| | 14. AFTER APPROVAL BY TH CONFIGURATION. | HE TOWN INSPECTOR, REMOVE THE SEDIMENT BASIN AND CONVERT BASIN TO FINAL |
| - | 15. COMPLETE CONSTRUCTION | DN. |
| | 16. WHEN CONSTRUCTION IS | S COMPLETE, REQUEST FINAL APPROVAL BY TOWN INSPECTOR. |
| | | DSION CONTROL MEASURES AND STABILIZE THOSE AREAS. |
| L | 1. REQUEST PRECONSTRUC | CTION MEETING. |
| : | 2. INSTALL TREE PROTECT | ION FENCING AND CONTACT THE TOWN OF KNIGHTDALE INSPECTOR FOR APPROVAL. |
| | 3. OBTAIN GRADING PERMI | т. |
| S | 4. CLEAR ONLY WHAT IS I | NECESSARY FOR INSTALLATION OF EROSION CONTROL MEASURES. |
| νE | 5. INSTALL ALL EROSION (| CONTROL MEASURES AS SHOWN ON THE INITIAL EROSION CONTROL PLAN, SITE 302. |
| | 6. OBTAIN CERTIFICATE OF | COMPLIANCE THROUGH ON-SITE INSPECTION BY EROSION CONTROL OFFICER. |
| | 7. BEGIN CONSTRUCTION A | AS SHOWN ON PLANS. PROCEED WITH ROUGH GRADING. |
| | | L MATERIAL PER SPECIFICATIONS. |
| | CLEAN SEDIMENT BASIN SEED AND MULCH DEN | I WHEN ONE-HALF FULL. UDED AREA WITHIN 15 DAYS AFTER ANY PHASE OF GRADING AND/OR AS SPECIFIED |
| | | ID STABILIZATION CHART, WHICHEVER IS MORE RESTRICTIVE. ISHED GRADE AND INSTALL RETAINING WALLS. ADJUST DIVERSION DITCHES AS |
| D | | IT SEDIMENT FROM LEAVING THE SITE. TION AROUND ALL NEW CATCH BASINS AS THEY ARE INSTALLED. |
| Ε. | 13. ONCE CONSTRUCTION IS | S SUBSTANTIALLY COMPLETE AND THE SITE IS STABILIZED TO THE EXTENT POSSIBLE, |
| | | F KNIGHTDALE FOR INSPECTION. HE TOWN INSPECTOR, REMOVE THE SEDIMENT BASIN AND CONVERT BASIN TO FINAL |
| | 15. COMPLETE CONSTRUCTION | ON. |
| | 16. WHEN CONSTRUCTION | S COMPLETE, REQUEST FINAL APPROVAL BY TOWN INSPECTOR. |
| 1 | 17. REMOVE REMAINING ER | OSION CONTROL MEASURES AND STABILIZE THOSE AREAS. |
| | | |

REQUIRED TOWN OF KNIGHTDALE CONSTRUCTION SEQUENCE

- SCHEDULE AN INITIAL PRE-CONSTRUCTION CONFERENCE WITH THE TOWN OF KNIGHTDALE. OBTAIN A LAND-DISTURBANCE PERMIT. INSTALL ALL PERIMETER CONTROLS AS SHOWN ON THE APPROVED PLANS, CLEAR ONLY AS NECCESARY TO
- INSTALL THESE DEVICES. CLEARING SHOULD BE LIMITED TO A MAXIMUM 35' "RIBBON" AROUND PERIMETER TO INSTALL CONTROLS. NO GRADING OR EXCAVATION SHOULD OCCUR. SCHEDULE AN ONSITE PRE-CONSTRUCTION MEETING WITH THE TOWN OF KNIGHTDALE TO INSPECT THE INSTALLED
- PERIMETER CONTROLS IF APPROVED, PROCEED WITH INSTALLING GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLANS. CLEAR ONLY AS NECCESARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS, AND BASINS IMMEDIATELY AFTER CONSTRUCTION. CALL TOWN OF KNIGHTDALE EROSION CONTROL INSPECTOR TO SCHEDULE AN ONSITE INSPECTION AND OBTAIN A CERTIFICATE OF COMPLIANCE.
- BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN IN THE APPROVED PLAN. BEING CONSTRUCTION, BUILDING, ETC. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. 8. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL EROSION CONTROL
- INSPECTOR FOR AN INSPECTION. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED. WHEN VEGETATION HAS BECOME ESTABLISHED (90% GERMINATION), CALL FOR A FINAL INSPECTION BE THE 11.
- EROSION CONTROL INSPECTOR. OBTAIN A CERTIFICATE OF COMPLETION PERMITTING AND ENVIRONMENTAL REGULATION NOTES

1. ESC PERMITTING AND INSPECTIONS:

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- 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 MAINTENANCE 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
- 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

- 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 ILIDENTIFY 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
- III.FOLLOW ALL CONDITIONS OUTLINED IN THE CERTIFICATIONS, 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 NC 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 NC DIVISION OF SOLID WASTE MANAGEMENT, OR PER NC DIVISION OF SOLID WASTE MANAGEMENT OR NC DIVISION OF WATER RESOURCES RULES AND REGULATIONS.

STANDARD UTILITY NOTES (AS APPLICABLE)

- 1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORD STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HAI
- UTILITY SEPARATION REQUIREMENTS: a) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SE
- SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PU
- b) WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL S BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPR ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO

UTILIZE

- c) WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANY WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
- d) 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY e) MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCF
- 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RO WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECI HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & f) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWE
- VERTICAL SEPARATION REQUIRED. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APP
- PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO
- AN EXISTING CITY OF RALEIGH UTILITY EASEMENT TRAVERSING PRIV CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVI
- BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE CITY OF RALE
- 6. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER REQUIRED ON ALL REUSE MAINS.
- 7. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE [UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN EASEMENT PER CORPUD HANDBOOK PROCEDURE.
- 8. INSTALL 1" COPPER WATER SERVICES WITH METERS LOCATED AT RC IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBIL SERVICE FOR EACH CONNECTION PROVIDE ADEQUATE FLOW & PRE
- 9. INSTALL 4" PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CI LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM 10. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVI
- VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING THE NEXT UPSTREAM MANHOLE.
- 11. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMI CONSTRUCTION.
- 12. NCDOT/RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW P
- 13. GREASE INTERCEPTOR/OIL WATER SEPARATOR SIZING CALCULATIONS BE APPROVED BY THE RW FOG PROGRAM COORDINATOR PRIOR TO CONTACT (919)996-4516 OR FOG@RALEIGHNC.GOV FOR MORE INF
- 14. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRE INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING F CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON APPROVAL LIST. THE DEVICES SHALL BE INSTALLED AND TESTED (THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMI CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE ST SHALL ALSO BE OBTAINED FROM THE RW CROSS-CONNECTION CO ISSUANCE OF A UC / BLDG PERMIT. CONTACT (919)996-5923 OF MORE INFORMATION.
- 15. NOTICE FOR PROJECTS WITH REPLACED OR OVERSIZED MAINS: IF OVERSIZED MAIN OR URBAN MAIN REPLACEMENT PROJECT IS \$250 BE PUBLICLY BID.

UTILITY NOTES

- 1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN AC AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICAT
- 2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-63 PRIOR TO BEGINNING CONSTRUCTION.
- 3. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXIS ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGIN
- 4. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.
- 5. CONTRACTOR SHALL COORDINATE THE LOCATION OF THE ELECTRIC, APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION CONDUITS AS REQUIRED FOR THESE UTILITIES UNDER PAVED AREAS
- 6. THIS PLAN IS DIAGRAMMATIC AND REPRESENTS THE APPROXIMATE SPECIFICALLY DIMENSIONED. THE CONTRACTOR SHALL COORDINATE OF UTILITIES TO AVOID CONFLICTS.
- 7. ALL EXISTING UTILITY SERVICES (UNUSED) SHALL BE ABANDONED OF EASEMENT.
- 8. CONTRACTOR TO COMPLY WITH REQUIREMENTS FOR FIRE SAFETY DEMOLITION. (CHAPTER 14, 2012 NC FIRE CODE, NFPA 241 AND CODE).
- 9. A NCDOT PERMIT IS REQUIRED PRIOR TO STARTING ANY WORKIN

STORM DRAINAGE NOTES:

- 1. YARD INLET (YI) RIM ELEVATION LISTED IS TO
- ELEVATION.
- 2. CURB INLET (CI) RIM ELEVATION LISTED IS 3. RCP SHALL BE MINIMUM CLASS III.

| | | | TE GROUS |
|---|---|--------------|--|
| ANCE WITH CITY OF RALEIGH DESIGN NDBOOK, CURRENT EDITION). WER & ANY PRIVATE OR PUBLIC WATER & SOURCE OF DRINKING WATER. IF SANITARY SEWER PIPE SHALL BE | | | CINERCERT. NO. TO LUI SSO CERT. NO. TO TO ALEIGH, NC. |
| THE MINIMUM SEPARATION SHALL NOT JBLIC WELL. SEPARATION BETWEEN UTILITIES SHALL EXISTING CONDITIONS, THE VARIATION THE ELEVATION OF THE WATER MAIN AT ROVED BY THE PUBLIC UTILITIES DIRECTOR OUTSIDE DIAMETER. YTIME A SANITARY SEWER PASSES OVER ON EACH SIDE OF CROSSING MUST | | | NC ENGINEERING LICENSE NO. P-0803 |
| SANITARY SEWER & STORM SEWER Y SEWER. P STORM DRAIN CROSSINGS; MAINTAIN CP STORM DRAIN CROSSINGS. IFY DIP MATERIALS & A CONCRETE CRADL S-49). | Ε | | SEAL SEAL STAND |
| ER FACILITIES WITH 18" MIN. PROVAL OF AN AMENDED PLAN &/OR | | | |
| PRIOR TO CONSTRUCTION. D OWNER FOR ANY WORK REQUIRED WITH /ATE PROPERTY. ICE TO EXISTING RESIDENCES & ISSARY SERVICE INTERRUPTIONS SHALL BE EIGH PUBLIC UTILITIES DEPARTMENT. | | | |
| EXISTING WATER & SEWER SERVICES NOT IRECTED BY THE CITY OF RALEIGH PUBLIC & REMOVAL OF SERVICE FROM ROW OR | | | |
| DW OR WITHIN A 2'X2' WATERLINE EASEMEN LITY TO PROPERLY SIZE THE WATER SSURE/. LEANOUTS LOCATED AT ROW OR EASEMEN | | | PLLC. PLLC. 05–1136 US, 4787 2255 sitegroup.net |
| ICES EXCEEDING 80 PSI; BACKWATER BUILDING DRAINS LOWER THAN 1.0' ABO' | | | CUP, 276 Roa 276 @the @the |
| BE OBTAINED FROM NCDWQ, USACE &/O PACTS (RESPECTIVELY) PRIOR TO | R | - | DEE VGINE Dee G NRV919 NRV910 NRV919 NRV910 NRV910 NRV910 NRV910 NRV910 NRV910 NRV90 NRV90 NRV90 NRV90 NRV90 NRV90 NRV90 NRV90 NRV90 NRV90 NRV90 NRV90 NRV90 NRV90 NRV90 NRV90 NRV90 NRV |
| R ANY UTILITY WORK (INCLUDING MAIN PRIOR TO CONSTRUCTION. S & INSTALLATION SPECIFICATIONS SHALL D ISSUANCE OF A UC / BLDG PERMIT. FORMATION. | | | THE SIT THE SIT 1111 O Raleigh, Office: Fax: E Mail: |
| D BASE ON DEGREE OF HEALTH HAZARD PUBLIC WATER SYSTEMS IN NORTH THE DEVICES SHALL MEET AMERICAN I THE UNIVERSITY OF SOUTHERN CALIFORN BOTH INITIAL AND PERIODIC TESTING MENDATIONS OR THE LOCAL RINGENT. A CERTIFICATE OF COMPLIANCE ORDINATOR FOR EACH DEVICE PRIOR R CROSS.CONNECTION@RALEIGHNC.GOV FOF | | | TDALE |
| THE CITY'S REIMBURSEMENT FOR AN 0,000 OR GREATER — THE PROJECT MUST | | | R: NIGHTD/ USE , KNIGHTDALE, AKE COUNTY |
| CORDANCE WITH THE CITY OF RALEIGH IONS. | | | GS FOR: BLVD., HP WA |
| 32–4949) LOCATE ALL EXISTING UTILITIES | | | DRAWING DARK MIXE HTDALE TOWNSHI |
| ISTING UTILITIES AND NOTIFY THE INING CONSTRUCTION. | | | |
| , GAS AND TELEPHONE SERVICE WITH THE DN. CONTRACTOR SHALL PROVIDE IS. | | | |
| LOCATION OF UTILITIES UNLESS THE ACTUAL AND PROPOSED LOCATION | | | ST & ST ST & ST ST. |
| AT TAP (MAIN) & REMOVED FROM ROW | | | Drawn By MRK Checked |
| Y DURING CONSTRUCTION AND CHAPTER 33, 2012 NC BUILDING | | | by SRN DATE: |
| NG IN THE NCDOT RIGHT OF WAY. | | | 14 JUN 2024 REVISED: |
| OP OF GRATE | | | |
| TOP OF CURB. | | | |
| | | | |
| | | RESERVED | CONSTRUCTION |
| | | HTS | DRAWINGS MORNING FLYER |
| a. | Town Certification. This design has been reviewed by the Engineer for the Town of | ALL | WAY & CAROLINIAN AVE. |
| | 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. | Group, PLL | SITE NOTES |
| | By: Date: Town Engineer | Site | Code ASKSCD |
| | These plans are approved by the Town of Knightdale and serve as construction plans for this project. | 2024 The | Dwg No. |
| | By: Date: Land Use Administrator | pyright © 20 | |

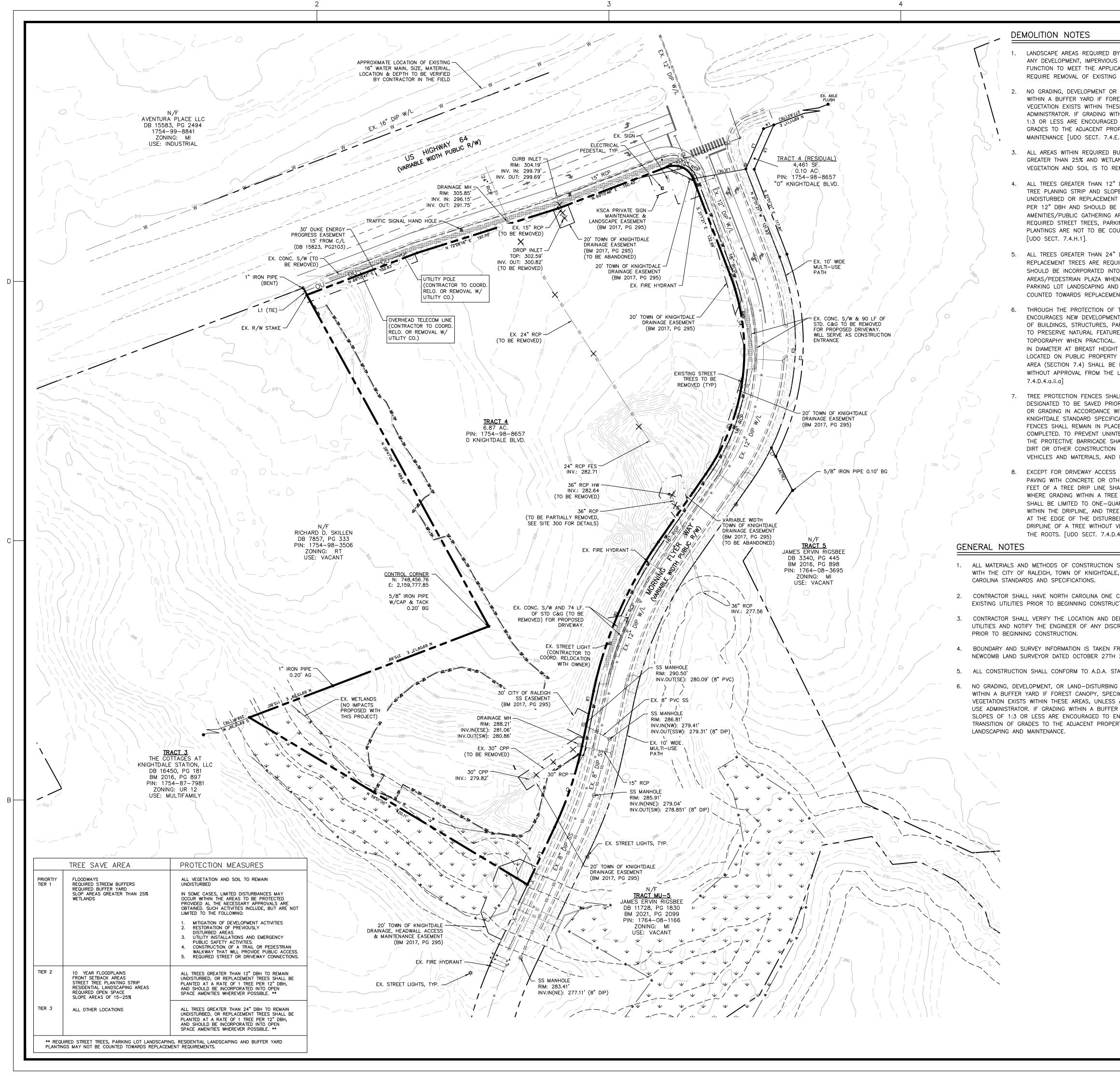
| | LANDSCAPE REQUIREMENTS: |
|---|--|
| | 1. THE SITE SHALL BE STABILIZED AND SEEDED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. |
| | ALL MECHANICAL EQUIPMENT, WASTE DISPOSAL FACILITIES, SHALL BE SCREENED FROM PUBLIC VIEW. ALL SIDES OF PARKING LOTS SHALL BE SCREENED WITH A TYPE A BUFFER YARD (SECT. 7.4.1.2)[UDO, SECT. 7.5.B.1] ALL ABOVE GROUND UTILITY EQUIPMENT AND FACILITIES ASSOCIATED WITH ON-SITE ELECTRIC, CABLE, TELEPHONE, GAS OR OTHER SIMILAR UTILITY SHALL BE LOCATED IN THE SIDE OF REAR YARD AREA OF THE SITE AND SCREENED WITH A TYPE B BUFFER YARD (SECT. 7.4.1.3) THAT PERTAIN TO SEMI-OPAQUE SCREENS UP TO SIX FEET IN HEIGHT OR THE HEIGHT OF THE UTILITY, WHICHEVER IS LESS [UDO, SECT. 7.5.D]. PLANTINGS SHALL ALLOW FOR A MINIMUM OF 5' CLEARANCE AROUND THE STRUCTURE TO ALLOW FOR ACCESS. ADDITIONALLY, ANY SIDE OF THE STRUCTURE HAVING A DOOR OR LOCK, THE PLANTINGS SHALL ALLOW FOR A 10' CLEARANCE. THE AMOUNT OF CLEARANCE SHALL ACCOUNT FOR THE SIZE OF THE PLANT MATERIAL AT MATURITY. ALSO ANY ROOF MOUNTED MECHANICAL EQUIPMENT MUST BE SCREENED FROM STREETS AND ADJACENT PROPERTIES. ALL STORMWATER DEVICES SUCH AS CULVERTS, RIP RAP STRUCTURES, RETENTION AND DETENTION PONDS AND OTHER STORMWATER-RELATED DEVICES SHALL BE SCREENED WITH EVERGREEN PLANTINGS TO REDUCE THEIR VISUAL IMPACT. |
| | 5. ENTRY FEATURE WALLS REQUIRE FOUNDATION PLANTINGS AT THE BASE OF THE WALL. |
| | ALL PLANTING MEDIANS AND/OR ISLANDS IN VEHICULAR USE AREAS SHALL BE AT LEAST TEN FEET LONG BY TEN FEET WIDE FROM BACK OF CURB TO BACK OF CURB, WITH A MINIMUM OF 300 SQUARE FEET OF SPACE PER CANOPY TREE WHERE THESE TREES ARE PROPOSED AND SHOULD BE PLANTED ON SLOPES NOT TO EXCEED 1:4 VERTICAL TO HORIZONTAL DISTANCE. THE SIZE OF THE PLANTING AREA AND SIZE OF PLANT MATERIAL AT MATURITY SHALL ALLOW FOR A 2.5' BUMPER OVERHANG FROM THE BACK OF CURB. EACH CANOPY TREE SHALL BE SEPERATED FROM PARKING SPACES BY AN 18' STANDARD CURB & GUTTER DESIGNED TO MINIMIZE DAMAGE BY VEHICLES TO PLANTS WITHIN THE LANDSCAPE AREA. |
| | 8. NO CANOPY TREE SHALL BE LOCATED WITHIN A ROADWAY RIGHT OF WAY OR WITHIN 5' OF A SIDEWALK, WITHIN 10' OF A LIGHTING LOCATION OR WITHIN 12' OF ELECTRICAL TRANSFORMERS. |
| | 9. ALL SHRUBS INSTALLED AS VEHICULAR USE SCREENING WILL BE MAINTAINED AS A CONTINUOUS HEDGE AT A MINIMUM HEIGHT OF 36 INCHES. 10. WHERE EXISTING OR PROPOSED VEGETATION FAILS TO FUNCTION ADEQUATELY AS REQUIRED, THE TOWN OF KNIGHTDALE SITE INSPECTOR RESERVES THE RIGHT TO REQUIRE SUPPLEMENTAL PLANTINGS IN ADDITION TO THOSE SHOWN ON THE LANDSCAPE PLAN BASED ON ACTUAL FIELD CONDITIONS. |
| | 11. UPON ESTABLISHMENT OF FINISHED GRADES AND PRIOR TO BEGINNING INSTALLATION OF ANY TREES, A SOIL AMENDMENT SCHEDULE FOR ALL TREE PLANTINGS SHALL BE PREPARED BY A CERTIFIED LANDSCAPE ARCHITECT AND BE PROVIDED TO THE TOWN OF KNIGHTDALE. |
| | PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, A CERTIFIED STATEMENT SHALL BE PROVIDED TO TOWN STAFF KNIGHTDALE SITE INSPECTOR ATTESTING TO THE FACT THAT THE SOIL AMENDMENT SCHEDULE WAS FOLLOWED AS SPECIFIED IN THE APPROVED SITE AND/OR SUBDIVISION PLAN. THIS STATEMENT SHALL BE CERTIFIED BY A REGISTERED LANDSCAPE ARCHITECT, CERTIFIED ARBORIST, OR OTHER SPECIALIST AS DETERMINED ACCEPTABLE BY THE PLANNING DIRECTOR. THE PROPERTY OWNER OR DEVELOPER SHALL PROVIDE FOR CONTINUOUS MAINTENANCE OF THE LANDSCAPE AREAS AFTER OCCUPANCY OF THE BUILDING. THE PROPERTY OWNER SHALL ENSURE THAT PERFORMANCE CRITERIA WITHIN THIS ORDINANCE AND/OR INCLUDED ON THE APPROVED SITE AND/OR SUBDIVISION PLAN ARE MET. FAILURE TO CORRECT DEFICIENCIES IN A TIMELY MANOR SHALL RESULT IN A CITATION FOR VIOLATION OF THIS ORDINANCE IN ACCORDANCE WITH CHAPTER 11. ALL FOUNDATION PLANTINGS SHALL BE DESIGNED TO TOWN OF KNIGHTDALE UDD SECTION 7.4 REQUIREMENTS. |
| | THE TOWN OF KNIGHTDALE SITE INSPECTOR RESERVES THE RIGHT TO REQUIRE ADDITIONAL PLANTINGS BASED ON ACTUAL FIELD CONDITIONS. 15. ALL IRRIGATION SYSTEM PLANS ARE SUBMITTED THROUGH THE BUILDING PERMIT PROCESS AND ARE EVALUATED SEPARATELY FROM AND IN ADDITION TO THE SITE PLAN AND BUILDING PLAN REVIEWS. |
| | 16. LARGE EVERGREEN SHRUBS OR FENCING SHALL BE USED TO SCREEN HVAC EQUIPMENT FROM ADJOINING LOTS AND COMMON AREAS. 17. ALL LANDSCAPING, MULCHING AND SEEDING SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED SITE PLAN AND THE STANDARDS OF SECTION 7.4 OF THE UDO PRIOR TO ISSUANCE OF A CO. |
| | 18. REQUIRED BUFFER YARDS MUST HAVE AT LEAST 40% BUT NO MORE THAN 60% EACH OF CANOPY AND UNDERSTORY TREES, AND AT LEAST 80% OF SHRUBS MUST BE EVERGREENS. |
| | 19. NOTHING SHALL BE PLANTED WITHIN AN UNDERGROUND OR OVERHEAD UTILITY EASEMENT OR A DRAINAGE EASEMENT WITHOUT THE CONSENT OF THE TOWN AND THE EASEMENT HOLDER AT THE TIME OF MASTER PLAN APPROVAL. |
| | ELEVATION. |
| | 21. DUKE ENERGY PLANTING REQUIREMENTS - ACCORDING TO DUKE ENERGY, PLANTINGS WITHIN 20' OF OVERHEAD POWER LINES SHALL NOT EXCEED 15' INHEIGHT. TREES PLANTED 20-50' FROM POWER LINES SHALL NOT EXCEED 40' IN HEIGHT. TREES PLANTED OVER 50' FROM POWER LINES MAY EXCEED 40' IN HEIGHT. LANDSCAPE MAINTENANCE PLAN: |
| | THE OWNERS OF THE PROPERTY AND THEIR AGENTS, HEIRS OR ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION AND MAINTENANCE OF ALL PLANTINGS AND PHYSICAL FEATURES SHOWN ON THIS PLAN. THE OWNERS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION AND MAINTENANCE OF ALL PLANTINGS AND PHYSICAL FEATURES SHOWN ON THIS PLAN. THE OWNERS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION AND MAINTENANCE OF ALL PLANTINGS AND PHYSICAL FEATURES SHOWN ON THIS PLAN. THE OWNERS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION AND MAINTENANCE OF ALL PLANTINGS AND PHYSICAL FEATURES SHOWN ON THIS PLAN. THE OWNERS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION AND MAINTENANCE OF ALL PLANTINGS AND PHYSICAL FEATURES SHOWN ON THIS PLAN. THE OWNERS SHALL BE |
| | A. <u>FERTILIZATION:</u> FERTILIZE LAWNS TWICE PER YEAR (FEBRUARY 15-MARCH 15 AND AGAIN SEPTEMBER 1-OCTOBER 31) ACCORDING TO SOIL TEST. FERTILIZE WARM SEASON GRASSES ONCE DURING THE GROWING SEASON PER SOIL TEST. B. <u>PRUNING:</u> PRUNING SHALL BE LIMITED TO REMOVAL OF DEAD WOOD OR BRANCHES FOR TREES OR FOR SIGHT DISTANCES/SAFETY REASONS. THE ANSI A300 STANDARDS SHOULD BE ADHERED TO. THE PRUNING OF SHRUBS SHALL BE LIMITED TO THE PRUNING OF SHRUBS SHALL BE LIMITED TO THE PRUNING NECESSARY TO MAINTAIN THE NATURAL SHAPE OF THE PLANT EXCEPT FOR SHEARED HEDGES. THE OWNER OF ANY TREE OR SHRUB ON PRIVATE PROPERTY THAT OVERHANGES ANY PUBLIC RIGHT-OF-WAY SHALL PRUNE THE BRANCHES SO THAT SUCH BRANCHES SHALL NOT OBSTRUCT THE LIGHT FROM ANY STREETLAMP OR OBSTRUCT THE VIEW OF ANY STREET INSTERSECTION AND SO THAT THERE SHALL BE A CLEAR SPACE OF 8 FEET ABOVE THE SURFACE OF THE STREET OR SIDEWALK. |
| | C. <u>PEST CONTROL:</u> PRE-EMERGENT WEED CONTROL FOR SHRUB BEDS MAY BE APPLIED IN FEBRUARY. CHEMICAL TREATMENT FOR INSECT INFESTATION AND DISEASE MAY BE APPLIED AND SHALL BE SPECIFIC TO THE PROBLEM. D. <u>MULCHING:</u> MULCHING SHALL BE MAINTAINED AT A DEPTH OF 2-3" IN SHRUB BEDS. MULCH SHALL BE REAPPLIED EVERY TWO YEARS. AS NECESSARY TO MAINTAIN THE AVERAGE DEPTH OF THE PLANT BED. E. <u>MOWING:</u> PRIMARY FESCUE LAWNS SHALL BE MAINTAINED AT A HEIGHT OF 3" AND SHALL BE MOWED APPROXIMATELY 30 TIMES PER YEAR. SECONDARY TURF AREAS MAY BE MAINTAINED HIGHER AND LESS FREQUENTLY. WARM SEASON GRASSES SHALL BE MOWED AS NEEDED DURING THE GROWING SEASON TO MAINTAIN THE RECOMMENDED HEIGHT OF THE SPECIES OF TURF GRASS. F. <u>PLANT PROTECTION:</u> AVOID EXCESS INTRUSION INTO THE ROOT ZONE AREA OF ESTABLISHED PLANTINGS. |
| | G. WATERING: IF ANY IRRIGATION SYSTEM IS UTILIZED, THE SYSTEM SHALL BE REGULATED TO PROVIDE APPROXIMATELY 1" OF RAINFALL PER WEEK DURING THE GROWING SEASON. (PENDING TOWN OF KNIGHTDALE WATER/IRRIGATION SUPPLIES.) REMOVAL OF DISEASE INFESTED MATERIAL SHALL BE ALLOWED SO LONG AS REQUIRED SHRUBS ARE REPLACED AT THE REQUIRED RATES AND SIZES. FAILURE TO MAINTAIN ALL PLANTINGS IN ACCORDANCE WITH THIS PLAN MAY CONSTITUTE A VIOLATION OF THE LAND DEVELOPMENT ORDINANCE AND MAY RESULT IN FINES. |
| | |
| c | GENERAL LIGHTING NOTES 1. LIGHT POLES ARE TO BE LOCATED: * 10' MIN. AWAY FROM CANOPY/STREET TREES * 5' MIN. AWAY FROM UNDERSTORY TREES * 12' MIN. AWAY FROM UNDERSTORY TREES * 12' MIN. AWAY FROM ELEC. TRANSFORMERS |
| | FIXTURE SYMBOLS ARE ILLUSTRATIVE AND HAVE BEEN INCREASED IN SIZE DUKE ENERGY PROGRESS SERVICE IS AVAILABLE FOR THIS SITE. FINAL PHOTOMETRICS TO BE PER DUKE ENERGY LAYOUT. |
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) (SECT. 7.4.I.2)[UDO, SECT. 7.5.B.1] OF REAR YARD AREA OF THE SITE AND SCREENED WITH A TYPE B ANTINGS SHALL ALLOW FOR A MINIMUM OF 5' CLEARANCE AROUND OUNT OF CLEARANCE SHALL ACCOUNT FOR THE SIZE OF THE PLANT

| | CERT. NO. STATECTURAL CERT. NO. S53 CERT. NO. CERT. | 0 |
|--|---|---|
| | THE SITE GROUP, PLLC. THE SITE GROUP, PLLC. 1111 Oberlin Road Raleigh, NC 27605–1136 USA Office: 919.835.4787 Fax: 919.839.2255 E Mail: SRN@thesitegroup.net | |
| | CONSTRUCTION DRAWINGS FOR: ATLAS STARK KNIGHTDALE STATION MIXED-USE 0 & 7790 KNIGHTDALE BLVD., KNIGHTDALE, NC ST. MATTHEW'S TOWNSHIP WAKE COUNTY | |
| | Drawn By Checked By DATE: 14 JUN 2024 REVISED: 1 02 AUG 2024 | |
| Copyright 🔘 2024 The Site Group, PLLC: ALL RIGHTS RESERVED | CONSTRUCTION DRAWINGS MORNING FLYER WAY & CAROLINIAN AVE. SITE NOTES Job Code ASKSCD Dwg No. SITE 003 | |

| a. | 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: | | | |
| | Land Use Administrator | | | |

5



DEMOLITION NOTES

- [UDO SECT. 7.4.H.1].
- 7.4.D.4.a.ii.a]
- DIRT OR OTHER CONSTRUCTION VEHICLES AND MATERIALS, AND
- EXCEPT FOR DRIVEWAY ACCESS PAVING WITH CONCRETE OR OTH FEET OF A TREE DRIP LINE SHA WHERE GRADING WITHIN A TREE SHALL BE LIMITED TO ONE-QUA WITHIN THE DRIPLINE, AND TREE AT THE EDGE OF THE DISTURBE DRIPLINE OF A TREE WITHOUT V THE ROOTS. [UDO SECT. 7.4.D.4
- ALL MATERIALS AND METHODS OF CONSTRUCTION WITH THE CITY OF RALEIGH, TOWN OF KNIGHTDALE, CAROLINA STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL HAVE NORTH CAROLINA ONE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUC
- CONTRACTOR SHALL VERIFY THE LOCATION AND DE UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCR PRIOR TO BEGINNING CONSTRUCTION.
- 4. BOUNDARY AND SURVEY INFORMATION IS TAKEN FF
- NO GRADING, DEVELOPMENT, OR LAND-DISTURBING WITHIN A BUFFER YARD IF FOREST CANOPY, SPECI VEGETATION EXISTS WITHIN THESE AREAS, UNLESS USE ADMINISTRATOR. IF GRADING WITHIN A BUFFER SLOPES OF 1:3 OR LESS ARE ENCOURAGED TO EN TRANSITION OF GRADES TO THE ADJACENT PROPER LANDSCAPING AND MAINTENANCE.

LANDSCAPE AREAS REQUIRED BY CHAPTER 7 OF THE UDO SHALL NOT CONTAIN ANY DEVELOPMENT. IMPERVIOUS SURFACES, OR SITE FEATURES THAT DO NOT FUNCTION TO MEET THE APPLICABLE STANDARDS FOR THAT AREA OR THAT REQUIRE REMOVAL OF EXISTING SIGNIFICANT VEGETATION [UDO SECT. 7.4.E.1].

NO GRADING, DEVELOPMENT OR LAND-DISTURBING ACTIVITIES SHALL OCCUR WITHIN A BUFFER YARD IF FOREST CANOPY, SPECIMEN TREES OR SIGNIFICANT VEGETATION EXISTS WITHIN THESE AREAS UNLESS APPROVED BY THE LAND USE ADMINISTRATOR. IF GRADING WITHIN A BUFFER YARD IS PROPOSED, SLOPES OF 1:3 OR LESS ARE ENCOURAGED TO ENSURE THE PROPER TRANSITION OF GRADES TO THE ADJACENT PROPERTY AND TO FACILITATE LANDSCAPING AND MAINTENANCE [UDO SECT. 7.4.E.2].

ALL AREAS WITHIN REQUIRED BUFFER YARDS, STREAM BUFFERS, SLOPE AREAS GREATER THAN 25% AND WETLANDS ARE TREE SAVE AREAS AND ALL VEGETATION AND SOIL IS TO REMAIN UNDISTURBED [UDO SECT. 7.4.H.1].

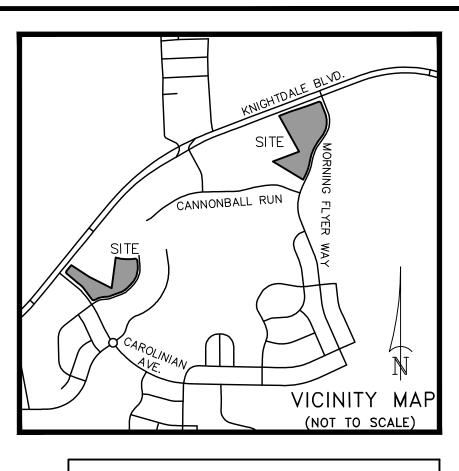
4. ALL TREES GREATER THAN 12" DBH WITHIN FRONT SETBACK AREAS, STREET TREE PLANING STRIP AND SLOPE AREAS OF 15-25% ARE TO REMAIN UNDISTURBED OR REPLACEMENT TREES ARE REQUIRED AT A RATE OF 1 TREE PER 12" DBH AND SHOULD BE INCORPORATED INTO OPEN SPACE AMENITIES/PUBLIC GATHERING AREAS/PEDESTRIAN PLAZA WHENEVER POSSIBLE. REQUIRED STREET TREES, PARKING LOT LANDSCAPING AND BUFFER YARD PLANTINGS ARE NOT TO BE COUNTED TOWARDS REPLACEMENT REQUIREMENTS

5. ALL TREES GREATER THAN 24" DBH ON-SITE ARE TO REMAIN UNDISTURBED OR REPLACEMENT TREES ARE REQUIRED AT A RATE OF 1 TREE PER 12" DBH AND SHOULD BE INCORPORATED INTO OPEN SPACE AMENITIES/PUBLIC GATHERING AREAS/PEDESTRIAN PLAZA WHENEVER POSSIBLE. REQUIRED STREET TREES. PARKING LOT LANDSCAPING AND BUFFER YARD PLANTINGS ARE NOT TO BE COUNTED TOWARDS REPLACEMENT REQUIREMENTS [UDO SECT. 7.4.H.1].

THROUGH THE PROTECTION OF TREES AND EXISTING VEGETATION, THE TOWN ENCOURAGES NEW DEVELOPMENT TO BE CREATIVE IN DESIGN AND PLACEMENT OF BUILDINGS, STRUCTURES, PARKING, AND OTHER IMPERVIOUS SURFACES AS TO PRESERVE NATURAL FEATURES AND TO COMPLEMENT THE EXISTING TOPOGRAPHY WHEN PRACTICAL. NO TREE GREATER THAN TWELVE (12) INCHES IN DIAMETER AT BREAST HEIGHT (DBH: MEASURED AT 4.5 FEET ABOVE GRADE) LOCATED ON PUBLIC PROPERTY OR WITHIN A REQUIRED TREE PROTECTION AREA (SECTION 7.4) SHALL BE REMOVED FOR THE PURPOSE OF SURVEYING WITHOUT APPROVAL FROM THE LAND USE ADMINISTRATOR. [UDO SECT.

TREE PROTECTION FENCES SHALL BE PLACED AROUND ALL PROTECTED TREES DESIGNATED TO BE SAVED PRIOR TO THE START OF DEVELOPMENT ACTIVITIES OR GRADING IN ACCORDANCE WITH STANDARD 2.10 OF THE TOWN OF KNIGHTDALE STANDARD SPECIFICATIONS AND DETAILS MANUAL. TREE PROTECTION FENCES SHALL REMAIN IN PLACE UNTIL DEVELOPMENT ACTIVITIES ARE COMPLETED. TO PREVENT UNINTENDED COMPACTION OF SOIL, THE AREA WITHIN THE PROTECTIVE BARRICADE SHALL REMAIN FREE OF ALL BUILDING MATERIALS,

| a. 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 CALL (811) LOCATE ALL JCTION. DEPTH OF ALL EXISTING CORFLICTS a. Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale and serve as construction plans for this project. By: Date: Date: Land Use Administrator | - dC |
|--|-----------------|
| CALL (811) LOCATE ALL These plans are approved by the Town of Knightdale and serve as construction plans for this project. DEPTH OF ALL EXISTING By: Date: | |
| JEPTH OF ALL EXISTING Land Use Administrator | |
| | |
| TROM A DIGITAL SURVEY BY SURVEY LEGEND | |
| TANDARDS. <u>SYMBOLS</u> <u>LINETYPES</u> | E E |
| ACTIVITIES SHALL OCCUR Ex. iron pipe/rod or nail Ex. concrete monument APPROVED BY THE LAND R YARD IS PROPOSED, Calculated point Cable pedestal Spanning | ULAT SINCO |
| RTY AND TO FACILITATE Telephone pedestal E Electric pedestal | Dr By Ch |
| F Fiber-optic marker DB Deed Book S Traffic signal box PB or BM Plat Book / Book of Maps O Water meter N/F Now or formerly | Ву |
| Tire hydrantPg.PageValve (water or gas)SFSquare feet | DA 12 |
| S Sanitary sewer manhole Ac. Acres | |
| Sanitary sewer cleanout R/W Right-of-way | |
| Storm curb inlet NCSR North Carolina State Route | |
| Drainage inlet (w/ grate) NCDOT North Carolina Dept. of Transportation Storm drain manhole R/W Right-of-way | |
| Utility pole Ex. Existing | |
| Lamp post RCP Reinforced concrete pipe | |
| PVC Polyvinyl chloride pipe (M) Measured | |
| | |
| Sign post BG Below ground | |
| | C C |
| | S L |
| ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS AND SPECIFICATIONS. | |
| MORNING FLYER WAY EXISTING | - C |
| CONDITIONS & DEMO PLAN | e Group, Cou |
| SCALE: 1" = 60' (DRAWING SCALED FOR 24x36 INCH PLOTS) | , Sit |
| SCALE. I – 60 (DRAWING SCALED FOR 24x36 INCH PLOTS) | 24 The |
| 0 60 120 180 240 | |



LINE LEGEND

| | PROPERTY BOUNDARY LINE |
|-----|-----------------------------|
| | ADJACENT LOT LINE |
| | SETBACK LINE |
| | EXISTING EASEMENTS |
| × _ | EXISTING FENCE LINE |
| | EXISTING ROW LINE |
| | PROPOSED ROW LINE |
| SS | EXISTING STORM DRAIN LINE |
| | PROPOSED STORM DRAIN LINE |
| TP | TREE PROTECTION FENCE LINE |
| LD | LIMITS OF DISTURBANCE LINE |
| | EXISTING MAJOR CONTOUR LINE |
| | EXISTING MINOR CONTOUR LINE |
| | PROPOSED MAJOR CONTOUR LINE |
| | PROPOSED MINOR CONTOUR LINE |

712012024 Ň 5277 E H 04N 2 U O 0.832 832 9 ໑໑∡ ---ເວັດດທ ()۶Ш 10 **Ξ ()** Σ Ψ \vec{z}]∕ ≻́[MRK ed SRN AN 2024 'ISED: 21 FEB 2024 12 APR 2024 09 MAY 2024 14 JUN 2024 02 AUG 2024 20 SEP 2024 STRUCTION RAWINGS NING FLYER EXISTING IDITIONS & MO PLAN ASKSCD vg No. SITE

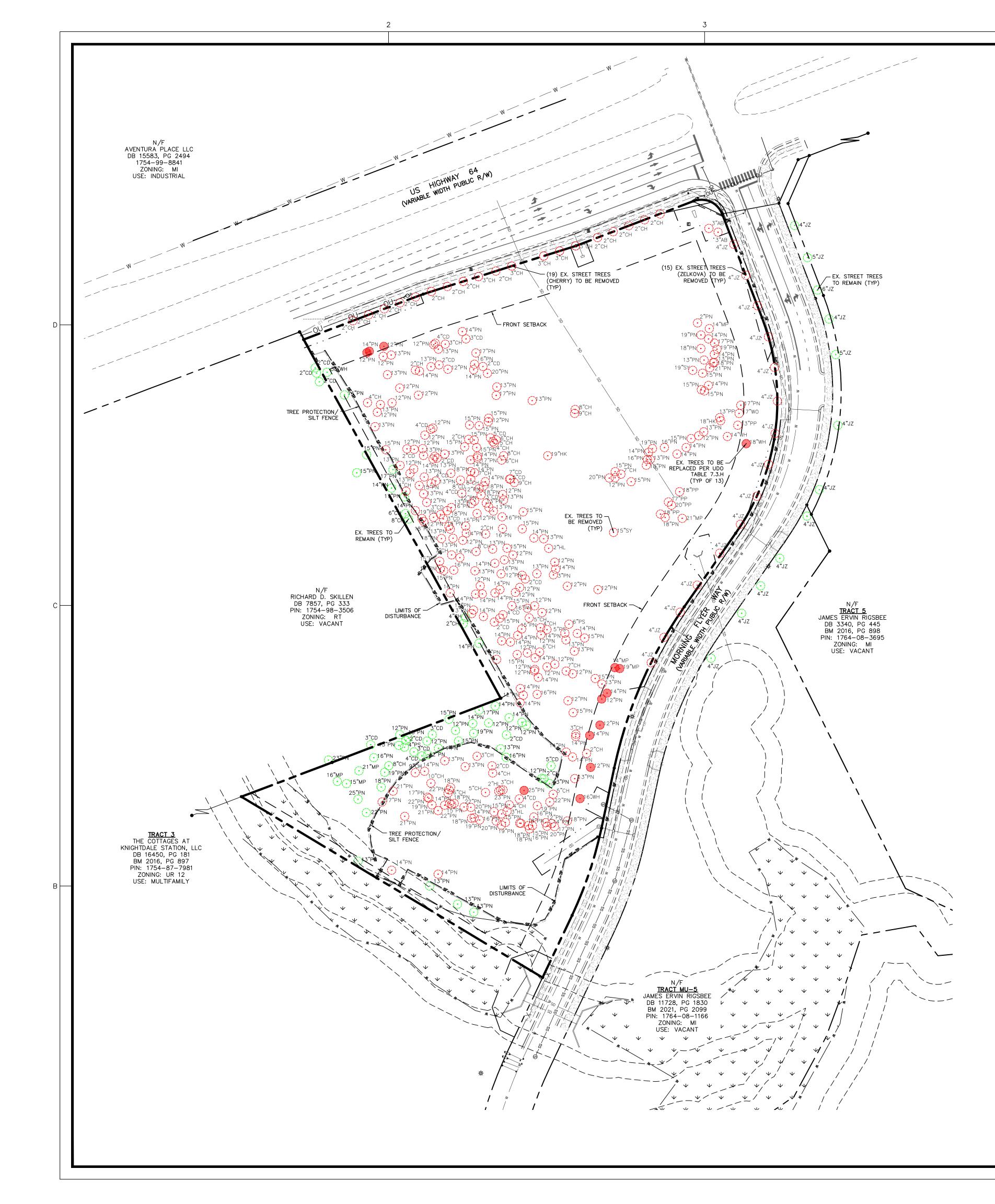
100

CERT. NO

353

NC ENGINEERING

LICENSE NO. P-0803



| | TREE SAVE AREA | | PROTECTION MEAS |
|---|--|-------------------|---|
| Priortiy Tier 1 | FLOODWAYS REQUIRED STREEM BUFFERS REQUIRED BUFFER YARD SLOP AREAS GREATER THAN WETLANDS | 25% | ALL VEGETATION AND SOIL UNDISTURBED IN SOME CASES, LIMITED DI: OCCUR WITHIN THE AREAS |
| | | | PROVIDED AL THE NECESSA OBTAINED. SUCH ACTIVITIES LIMITED TO THE FOLLOWING: |
| | | | I. MITIGATION OF DEVELO RESTORATION OF PREV DISTURBED AREAS UTILITY INSTALLATIONS |
| | | | PUBLIC SAFETY ACTIVI 4. CONSTRUCTION OF A T WALKWAY THAT WILL F 5. REQUIRED STREET OR |
| TIER 2 | 10 YEAR FLOODPLAINS FRONT SETBACK AREAS STREET TREE PLANTING STRIP RESIDENTIAL LANDSCAPING AF REQUIRED OPEN SPACE SLOPE AREAS OF 15-25% | | ALL TREES GREATER THAN UNDISTURBED, OR REPLACED PLANTED AT A RATE OF 1 AND SHOULD BE INCORPORA SPACE AMENITIES WHEREVER |
| TIER 3 | ALL OTHER LOCATIONS | | ALL TREES GREATER THAN UNDISTURBED, OR REPLACEM PLANTED AT A RATE OF 1 AND SHOULD BE INCORPORA SPACE AMENITIES WHEREVER |
| | JIRED STREET TREES, PARKING LO IGS MAY NOT BE COUNTED TOWAR | | |
| SURVE | EY LEGEND | | |
| | | | |
| <u>SYMBOI</u> | | LINET | |
| I | x. iron pipe/rod or nail x. concrete monument | | ¥ ──── Fence DU ─── Overhead utility |
| | lew iron pipe | | W —— Water |
| | Calculated point | s | S — Sanitary sewer |
| | Cable pedestal | | SD — Storm drain |
| | elephone pedestal | | |
| | lectric pedestal | ABBRE | EVIATIONS |
| | iber—optic marker | DB | Deed Book |
| | raffic signal box | PB or | - BM Plat Book / Book |
| | Vater meter | N/F | Now or formerly |
| >-4 | īre hydrant | Pg. | Page |
| | 'alve (water or gas) | SF | Square feet |
| S s | Sanitary sewer manhole | Ac. | Acres |
| 0 s | Sanitary sewer cleanout | R/W | Right-of-way |
| () () () () () () () () () () () () () (| itorm curb inlet | NCSR | North Carolina Sta |
| |)rainage inlet (w/ grate) | NCDO ⁻ | T North Carolina Dep |
| | Storm drain manhole | R/W | Right—of—way |
| | Itility pole | Ex. | Existing |
| | .amp post | RCP | Reinforced concrete |
| \sim | Signal pole | PVC | Polyvinyl chloride p |
| | Buy wire | (M) | Measured |
| | - | AG | Above ground |
| | iign post | BG | Below ground |
| TREE | LEGEND | R | EQUIRED TREE RE |
| | | | IR 2 – FRONT SETBACK A |
| AB – Af | RBOVITAE | | PLACEMENT TREES SHALL |
| CD – CE | EDAR | | EN SPACE AMENITIES WHE |
| СН – СН | | | FRONT SETBACK AREA |
| HK — HI | | | 1. 12" PINE |
| HL — HC | JLLY PANESE ZELKOVA | | 2. 14" PINE |
| MP – M | | | 3. 12" PINE |
| PN – PI | | | 4. 18" WHITE OAK |
| PP - PC | DPLAR | | 5. 14" MAPLE |
| | RSIMMON | | 6. 19" MAPLE 7. 14" PINE |
| | | | 7. 14 PINE 8. 12" PINE |
| SY - S) | CAMORE HITE OAK | | 8. 12 PINE 9. 12" PINE |
| | ILLOW OAK | | 9. 12 FINE 10. 14" PINE |
| | | | 11. 12" PINE |
| (•) тғ | REES TO BE REMOVED | | 12. 16" WILLOW OAK |

TIER 3 - ALL OTHER LOCA TREES SHALL BE PLANTED • TREES TO BE PRESERVED AMENITIES WHEREVER POSS OTHER LOCATION REA NOTE: SEE SITE 500 FOR 1. 25" PINE REPLACEMENT TREE LOCATIONS 25 TOTAL DBH REM

STREET TREE REPLACEMENT NOTE:

• TREES TO BE REMOVED &

REPLACED

1. ANY EXISTING STREET TREE PROPOSED TO BE REMOVED WILL BE REF TREE LOCATIONS PER THE APPLICABLE ROADWAY CROSS-SECTION OUTLIN

BUFFER NOTE:

1. ALL TREES TO BE REMOVED FROM WITHIN THE 30-FOOT TYPE C BUF ACCOMMODATE THE CONSTRUCTION OF THE REQUIRED 10-FOOT-WIDE MU RELATED IMPROVEMENTS. A TYPE C BUFFER WILL BE PLANTED IN ACCOR THE LAND USE ADMINISTRATOR RESERVES THE RIGHT TO REQUIRE ADDITION PRIOR TO CERTIFICATE OF OCCUPANCY TO MEET THE PERFORMANCE STAM

| | GENERAL NOTES | TE GROUP |
|--|--|---|
| ALL VEGETATION AND SOIL TO REMAIN | 1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE | S & CRT. NO. JULC. |
| UNDISTURBED IN SOME CASES, LIMITED DISTURBANCES MAY | WITH THE CITY OF RALEIGH, TOWN OF KNIGHTDALE, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS. | |
| OCCUR WITHIN THE AREAS TO BE PROTECTED PROVIDED AL THE NECESSARY APPROVALS ARE OBTAINED. SUCH ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: | 2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. | PALEICIA N.C. |
| MITIGATION OF DEVELOPMENT ACTIVITIES RESTORATION OF PREVIOUSLY DISTURBED AREAS UTILITY INSTALLATIONS AND EMERGENCY | 3. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS | NC ENGINEERING LICENSE NO. P-0803 |
| PUBLIC SAFETY ACTIVITIES. 4. CONSTRUCTION OF A TRAIL OR PEDESTRIAN WALKWAY THAT WILL PROVIDE PUBLIC ACCESS. 5. REQUIRED STREET OR DRIVEWAY CONNECTIONS. | PRIOR TO BEGINNING CONSTRUCTION. 4. BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A DIGITAL SURVEY BY NEWCOMB LAND SURVEYOR DATED OCTOBER 27TH 2022. | |
| ALL TREES GREATER THAN 12" DBH TO REMAIN UNDISTURBED, OR REPLACEMENT TREES SHALL BE PLANTED AT A RATE OF 1 TREE PER 12" DBH, AND SHOULD BE INCORPORATED INTO OPEN | 5. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS. | NORTH CARO |
| SPACE AMENITIES WHEREVER POSSIBLE. ** ALL TREES GREATER THAN 24" DBH TO REMAIN UNDISTURBED, OR REPLACEMENT TREES SHALL BE PLANTED AT A RATE OF 1 TREE PER 12" DBH, AND SHOULD BE INCORPORATED INTO OPEN SPACE AMENITIES WHEREVER POSSIBLE. ** | 6. NO GRADING, DEVELOPMENT, OR LAND-DISTURBING ACTIVITIES SHALL OCCUR WITHIN A BUFFER YARD IF FOREST CANOPY, SPECIMEN TREES, OR SIGNIFICANT VEGETATION EXISTS WITHIN THESE AREAS, UNLESS APPROVED BY THE LAND USE ADMINISTRATOR. IF GRADING WITHIN A BUFFER YARD IS PROPOSED, SLOPES OF 1:3 OR LESS ARE ENCOURAGED TO ENSURE THE PROPER TRANSITION OF GRADES TO THE ADJACENT PROPERTY AND TO FACILITATE | * 1419 2 * 0 0 0 0. 100 |
| ESIDENTIAL LANDSCAPING AND BUFFER YARD REQUIREMENTS. | LANDSCAPING AND MAINTENANCE. | |
| | | |
| | LINE LEGEND | |
| - Fence | PROPERTY BOUNDARY LINE | |
| — Overhead utility — Water | ADJACENT LOT LINE | |
| — Sanitary sewer | SETBACK LINE | |
| — Storm drain | EXISTING EASEMENTS | |
| <u>IONS</u> | EXISTING FENCE LINE | 136 USCAF |
| Deed Book Plat Book / Book of Maps | EXISTING ROW LINE | |
| Now or formerly | PROPOSED ROW LINE | LAN 5-11 787 787 tegro |
| Page Square feet | SS EXISTING STORM DRAIN LINE | |
| Acres | PROPOSED STORM DRAIN LINE | OC BUS |
| Right-of-way | TREE PROTECTION FENCE LINE | Z S S S S S S S S S S S S S S S S S S S |
| North Carolina State Route North Carolina Dept. of Transportatior | LIMITS OF DISTURBANCE LINE | |
| Right-of-way | EXISTING MAJOR CONTOUR LINE | |
| Existing Reinforced concrete pipe | EXISTING MINOR CONTOUR LINE | THE Officie Mo Officie Mo CML |
| Polyvinyl chloride pipe | PROPOSED MAJOR CONTOUR LINE | |
| Measured Above ground | PROPOSED MINOR CONTOUR LINE | |
| Below ground | | |
| FRONT SETBACK AREAS: ALL TREES GREATER THA CEMENT TREES SHALL BE PLANTED AT A RATE OF 1 1 SPACE AMENITIES WHEREVER POSSIBLE. FRONT SETBACK AREA REMOVALS = 12 TREES 12" PINE 14" PINE 12" PINE 18" WHITE OAK 14" PINE 12" PINE 12" PINE 14" PINE 12" PINE 14" PINE 12" PINE 12" PINE 14" PINE 12" PINE 14" PINE 12" PINE 14" PINE 14" PINE 15" WILLOW OAK 169 TOTAL DBH INCHES REMOVED, 169/12 = 14 R ALL OTHER LOCATIONS: ALL TREES GREATER THAN SHALL BE PLANTED AT A RATE OF 1 TREE/12" DBH, TIES WHEREVER POSSIBLE. OTHER LOCATION REMOVALS = 1 TREE 25 TOTAL DBH REMOVED, 25/12 = 2 REPLACEMENT REMOVED WILL BE REPLANTED IN ACCORDANCE WITH THROSS-SECTION OUTLINED IN SECTION 10.4.A OF THE U 30-FOOT TYPE C BUFFER ARE NECESSARY TO ED 10-FOOT MIDE MULTI-USE PATH AND OTHER SITE BE PLANTED IN ACCORDANCE WITH 7.4.1.4 OF THE UD TO REQUIRE ADDITIONAL VEGETATION TO BE PLANTED 44 PERFORMANCE STANDARDS OF THE TYPE C BUFFER | REE/12" DBH, AND SHOULD BE INCORPORATED INTO EPLACEMENT TREES REQUIRED I 24 "DBH TO REMAIN UNDISTURBED, OR REPLACEMENT AND SHOULD BE INCORPORATED INTO OPEN SPACE TREES REQUIRED * TREES REQUIRED * TREES REQUIRED * TREES REQUIRED ** 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: These plans are approved by the Town of Knightdale and serve as construction plans for this project. By: Date: | CONSTRUCTION DRAWINGS FOR: CONSTRUCTION DRAWINGS FOR: ATLAS STARK KNIGHTDAL ATLAS STARK KNIGHTDAL ATLAS STARK KNIGHTDALE, NG Drawn By Checked By DATE: 12 APR 2024 REVISED: 12 APR 2024 REVISED: 12 ADR 2024 REVISED: 12 ADR 2024 REVISED: 12 ADR 2024 REVISED: 12 ADR 2024 |
| | $By: \ Date: \ Intermediate the second s$ | Tor and the state of the state |

| Т | rees to b | e Removed | Table | | Trees to b | e Removed | Table | | Trees to be Remove | d Table | Trees to be Remove | d Table | Trees | to be Rem | oved Table | e | Trees to be Remove | ed Table | | Trees to b | e Removed Table | 1 | Trees to be Remov | /ed_Table |
|-------|-----------|------------|--------------|---------|------------|------------|--------------------|---------|----------------------|-------------|--------------------------|---------------|------------|---------------------------|-------------|----------|---|---------------------------------------|---------|------------|----------------------|------------|-------------------|--------------------|
| int # | Northing | Easting | Description | Point # | Northing | Easting | Description | Point # | Northing Easting | Description | Point # Northing Easting |) Description | Point # No | rthing Eas | sting Desci | cription | Point # Northing Easting | Description | Point # | Northing | Easting Descrip | on Point 🛔 | # Northing Eastin | ing Desci |
| | | | | 47 | 748534.21 | 2159869.38 | 14 pine | 97 | 748861.17 2160020.98 | 13 pine | 148 748685.08 2159763 | 70 13 pine | 189 748 | 721.26 2159 | 9686.41 13 | pine | 294 748810.10 2159647.92 | 12 pine | 349 | 748653.08 | 2159759.85 2 cher | y 1218 | 748676.93 2159968 | 8.83 18 p |
| | 748581.22 | 2159747.81 | 14 pine | 48 | 748534.59 | 2159854.56 | 5 persimmon | 98 | 748857.93 2160031.71 | 18 pine | 149 748680.44 2159769 | 13 13 pine | 190 748 | 3725.61 2159 | 669.41 13 | pine | 295 748954.17 2159733.38 | 2 cherry | 350 | 748654.19 | 2159736.70 14 pir | e 1219 | 748672.84 2159974 | 4.47 18 |
| | 748562.15 | 2159745.32 | 12 pine | 49 | 748309.82 | 2159772.38 | 16 pine | 99 | 748851.91 2160027.73 | 21 pine | 150 748690.15 2159760 | 59 3 cedar | 191 748 | 735.10 2159 | 657.51 13 | pine | 296 748991.11 2159842.83 | 3 cherry | 351 | 748645.51 | 2159732.54 12 pir | e 1220 | 748691.39 2159978 | 8.30 17 |
| | 748609.91 | 2159721.68 | 16 pine | 50 | 748305.13 | 2159778.70 | 20 pine | 100 | 748874.14 2160036.45 | 19 pine | 151 748689.60 2159742 | 98 13 pine | 192 748 | 730.89 2159 | 673.86 12 | pine | 297 749014.01 2160037.72 | 3 leyland cypress | 352 | 748636.09 | 2159785.34 15 pir | e 1221 | 748703.68 2159991 | 91.72 18 |
| , | 748547.84 | 2159770.19 | 2 cedar | 51 | 748308.11 | 2159783.48 | 19 pine | 101 | 748868.00 2160033.28 | 14 pine | 152 748692.58 2159746 | 64 12 pine | 193 748 | 624.88 2159 | 729.04 14 | pine | 299 748867.15 2159646.89 | 13 pine | 353 | 748635.05 | 2159768.20 13 pir | e 1222 | 748687.60 2159982 | ,2.09 20 |
| 3 | 748556.57 | 2159780.50 | 4 cedar | 52 | 748313.74 | 2159746.07 | 14 pine | 102 | 748858.26 2160033.12 | 13 pine | 153 748701.66 2159731. | 33 4 cedar | 194 748 | 626.46 2159 | 750.24 12 | pine | 300 748865.59 2159637.30 | 12 pine | 354 | 748659.73 | 2159780.02 16 pir | 9 1223 | 748659.21 2159803 |)3.63 1 |
|) | 748567.41 | 2159791.16 | 15 pine | 53 | 748311.12 | 2159752.57 | 19 pine | 103 | 748845.25 2159761.98 | 20 pine | 154 748707.07 2159751. | 77 12 pine | 195 748 | 632.09 2159 | 748.50 8 cl | cherry | 301 748829.01 2159773.15 | 13 pine | 355 | 748662.42 | 2159715.88 14 pir | 9 1224 | 748627.98 2159792 | 92.52 1 |
| 0 | 748557.90 | 2159743.19 | 13 pine | 54 | 748320.95 | 2159769.84 | 15 pine | 104 | 748802.00 2159866.84 | 8 cherry | 155 748710.46 2159757 | 18 18 pine | 196 748 | 611.24 2159 ⁻ | 705.57 14 | pine | 302 748853.42 2159756.62 | 2 cedar | 356 | 748658.97 | 2159717.58 13 pir | 9 1225 | 748648.29 2159817 | 7.54 1 |
| 1 | 748554.37 | 2159757.18 | 14 pine | 55 | 748336.36 | 2159800.00 | 4 cedar | 105 | 748869.62 2159748.21 | 17 pine | 156 748699.79 2159754 | .31 18 pine | 197 748 | 3620.51 2159 ⁻ | 704.87 15 | pine | 303 748856.20 2159746.52 | 16 pine | 357 | 748628.10 | 2159719.13 7 cher | y 1226 | 748715.69 2159933 | 33.76 1 |
| 2 | 748552.45 | 2159776.74 | 15 pine | 56 | 748328.24 | 2159821.53 | 19 pine | 106 | 748848.83 2160007.46 | 19 sycamore | 157 748720.08 2159907 | 69 20 pine | 198 748 | 609.38 2159 ⁻ | 709.75 15 | pine | 304 748874.94 2160017.20 | 18 pine | 358 | 748662.56 | 2159735.86 15 pir | ə 1227 | 748647.39 2159829 | 29.23 1 |
| 3 | 748480.32 | 2159890.79 | 15 pine | 57 | 748307.32 | 2159800.50 | 18 pine | 107 | 748845.43 2160019.19 | 15 pine | 158 748727.66 2159914. | 67 15 pine | 199 748 | 582.57 2159 | 770.93 14 | pine | 305 748812.66 2159815.48 | 13 pine | 359 | 748676.52 | 2159705.86 3 ced | r 1228 | 748720.41 2159914 | 4.59 1 |
| 4 | 748513.02 | 2159865.92 | 13 pine | 58 | 748318.44 | 2159778.98 | 15 pine | 108 | 748797.33 2159866.27 | 9 cherry | 159 748746.72 2159834 | 04 19 hickory | 200 748 | 618.14 2159 ⁻ | 770.79 14 | pine | 306 748818.86 2159772.44 | 17 pine | 360 | 748671.22 | 2159709.19 3 ced | r 1229 | 748583.24 2159795 | 95.32 1 |
| 5 | 748532.87 | 2159826.08 | 12 pine | 59 | 748321.58 | 2159785.42 | 3 holly | 109 | 748765.70 2159772.36 | 6 cherry | 160 748735.36 2159951. | 96 18 pine | 201 748 | 586.68 2159 | 776.87 14 | pine | 307 748853.24 2159694.43 | 13 pine | 361 | 748787.51 | 2159763.02 12 pir | e 1230 | 748599.35 2159807 |)7.18 2 |
| 6 | 748473.79 | 2159898.85 | 13 pine | 60 | 748329.29 | 2159788.09 | 4 cherry | 110 | 748761.69 2159770.20 | 4 cherry | 161 748742.11 2159953 | 33 16 pine | 202 748 | 609.12 2159 | 746.98 13 | pine | 308 748849.08 2159675.84 | 2 cherry | 362 | 748791.63 | 2159763.47 15 pir | 9 1231 | 748605.65 2159821 | 21.05 1 |
| 9 | 748523.98 | 2159789.53 | 14 pine | 63 | 748396.80 | 2159703.43 | 14 pine | 111 | 748763.45 2159768.67 | 5 cherry | 162 748724.63 2159921. | 65 7 cherry | 203 748 | 3591.13 2159 ⁻ | 753.33 12 | pine | 309 748847.90 2159680.68 | 14 pine | 363 | 748797.27 | 2160062.88 17 willow | oak 1232 | 748622.11 2159782 | 32.17 ⁻ |
| C | 748525.24 | 2159779.04 | 14 pine | 64 | 748355.19 | 2159694.36 | 10 cherry | 112 | 748741.50 2159778.92 | 6 cherry | 163 748673.65 2159779 | 48 16 pine | 204 748 | 581.50 2159 | 755.83 14 | pine | 310 748849.57 2159745.44 | 14 pine | 364 | 748757.38 | 2159734.68 15 pir | e 1233 | 748589.27 2159800 | 00.61 |
| 2 | 748552.78 | 2159811.93 | 5 cherry | 65 | 748369.38 | 2159686.78 | 14 pine | 113 | 748743.93 2159749.85 | 17 pine | 164 748679.56 2159804 | 69 15 pine | 205 748 | 481.65 21598 | 822.69 14 | pine | 311 748850.15 2159714.68 | 12 pine | 365 | 748783.51 | 2159740.50 15 pir | e 1234 | 748605.54 2159778 | /8.28 |
| 5 | 748539.52 | 2159802.94 | 15 pine | 67 | 748326.62 | 2159733.93 | 22 pine | 114 | 748746.78 2159781.32 | 8 cherry | 165 748677.67 2159749 | 53 12 pine | 206 748 | 489.22 2159 | 818.24 12 | pine | 312 748855.40 2159704.19 | 2 cedar | 366 | 748782.66 | 2159752.02 15 pir | e 1235 | 748611.07 2159843 | 3.53 |
| | 748531.87 | 2159798.15 | 14 pine | 68 | 748326.17 | 2159742.09 | 20 pine | 115 | 748824.21 2160021.40 | 15 pine | 166 748719.03 2159789 | 36 7 cherry | 207 748 | 3491.12 2159 | 818.58 12 | pine | 313 748328.83 2159710.86 | 22 pine | 367 | 748898.76 | 2160027.31 14 ma | le 1236 | 748619.38 2159842 | 2.45 |
| | 748775.29 | 2160020.63 | 13 pine | 69 | 748313.16 | 2159742.93 | 18 pine | 116 | 748825.65 2160017.66 | 15 pine | 167 748718.75 2159788 | 43 | 208 748 | 485.98 21598 | 863.89 12 | pine | 314 748330.96 2159716.74 | 14 pine | 368 | 748905.55 | 2160013.21 20 pir | e 1237 | 748635.96 2159835 | 35.21 |
| 5 | 748770.66 | 2160014.59 | 12 pine | 70 | 748381.90 | 2159710.84 | 13 pine | | 748830.77 2160026.25 | 14 pine | 168 748714.63 2159794 | 17 9 cherry | | 489.20 2159 | | cherry | 315 748329.47 2159719.08 | 15 pine | 369 | 748891.16 | 2160017.31 19 pir | e 1238 | 748603.69 2159803 | 3.39 |
| 7 | 748767.20 | 2160005.46 | 15 pine | 71 | 748374.79 | 2159735.26 | 13 pine | | 748792.29 2160039.66 | 13 poplar | 169 748718.82 2159742 | 07 6 cherry | | 497.42 21598 | | pine | 316 748338.33 2159690.36 | 17 pine | 370 | 748807.15 | 2160064.95 17 pir | e 1239 | 748604.27 2159840 | .0.84 |
| Э | 748783.19 | 2160061.28 | 13 poplar | 72 | 748343.98 | 2159759.64 | 5 cherry | | 748768.05 2159765.48 | | 170 748717.52 2159729 | 77 8 cedar | | 510.88 21598 | | pine | 317 748329.25 2159695.59 | 19 pine | 371 | 748886.43 | 2160026.36 14 pir | e 1240 | 748590.71 2159857 | ,7.44 |
| C | 748769.73 | 2160048.88 | 14 white oak | 75 | 748413.68 | 2159867.69 | 3 cherry | | 748788.63 2160040.88 | | 171 748726.43 2159746 | 54 7 cherry | | 503.12 2159 | | pine | 318 748322.37 2159702.98 | 21 pine | 372 | 748881.40 | 2160033.54 17 pir | e 1243 | 748406.40 2159664 | 4.43 |
| 51 | 748755.23 | 2159959.28 | 19 pine | 77 | 748386.47 | 2159863.74 | 14 pine | 121 | 748975.68 2159792.53 | 3 cherry | 172 748716.56 2159700 | 28 4 cedar | | 439.48 21598 | | pine | 319 748343.27 2159714.89 | 6 cherry | 373 | 748779.75 | 2159696.75 12 pir | 9 1251 | 748405.62 2159727 | 27.40 |
| 2 | 748750.74 | 2159954.66 | 14 pine | 78 | 748392.32 | 2159856.12 | 14 pine | 122 | 748959.31 2159751.78 | 3 cherry | 173 748713.85 2159694 | 70 13 pine | | 453.72 21598 | | pine | 320 748367.63 2159675.68 | 9 cherry | 374 | 748778.29 | 2159694.08 4 ced | r 1254 | 748332.63 2159635 | 5.95 ⁻ |
| 3 | 748742.19 | 2159956.69 | 13 pine | 82 | | 2159867.46 | 14 pine | 123 | 748988.59 2159830.87 | 3 cherry | 174 748725.74 2159718. | 25 18 pine | | 451.49 2159 | | pine | 321 748409.01 2159667.34 | 15 pine | 375 | 748771.39 | 2159687.18 12 pir | e 1255 | 748315.48 2159663 | 3.08 2 |
| 4 | 748756.55 | 2159999.59 | 14 pine | 83 | | 2159880.53 | 2 cherry | | 748946.04 2159685.73 | 2 cherry | 175 748746.16 2159750 | 15 14 pine | | 460.29 21598 | | pine | 322 748330.86 2159722.25 | 18 pine | 377 | 748781.53 | 2159627.63 13 pir | e 1262 | 748345.61 2159649 | ,9.18 2 |
| 5 | 748748.80 | 2159988.66 | 14 pine | 85 | | 2159815.83 | 18 pine | | 749018.63 2160026.75 | | 176 748756.53 2159749 | 04 15 pine | | 468.29 2159 | | pine | 323 748347.02 2159716.22 | 22 pine | 378 | 748753.90 | 2159640.43 15 pir | e 1265 | 748360.60 2159866 | 6.33 1 |
| 6 | 748756.50 | 2159973.58 | 16 pine | 86 | | 2159817.44 | 16 pine | 131 | 748997.67 2159867.39 | 3 cherry | 177 748741.78 2159741. | 88 14 pine | | 345.49 2159 | | pine | 324 748350.01 2159717.94 | 18 pine | 379 | 748743.84 | 2159701.69 13 pir | e 1271 | 748461.39 2159821 | 21.40 1 |
| 7 | 748541.04 | 2159825.46 | 4 cherry | 87 | | 2159831.62 | ' 12 pine | 133 | 748881.26 2159699.67 | 4 cedar | 178 748766.31 2159739 | 50 2 cherry | | 387.30 2159 | | | 332 748246.35 2159703.00 | 14 pine | 380 | 748746.12 | 2159699.05 2 ced | r 2213 | 748509.09 2159797 | 7.54 |
| 3 | 748538.78 | 2159833.18 | 14 pine | 88 | | 2159802.04 | ' 18 pine | 134 | 748880.15 2159711.53 | 3 cherry | 179 748727.83 2159741. | 87 14 pine | | 375.85 2159 ⁻ | | | 333 748337.05 2159691.98 | 22 pine | 381 | 748748.71 | 2159710.95 13 pir | | | I |
| 9 | 748526.49 | 2159855.87 | 13 pine | 89 | | 2159812.22 | ' 16 pine | 135 | 748879.41 2159697.82 | 12 pine | 180 748765.44 2159746 | .11 15 pine | | 346.83 2159 ⁻ | | holly | 336 748251.05 2159647.46 | 14 pine | 382 | 748754.39 | 2159674.39 2 ced | r | | |
| 0 | 748564.24 | 2159809.77 | 16 pine | 90 | | 2159810.78 | 15 pine | 136 | 748895.19 2159731.98 | 14 pine | 181 748704.28 2159664 | 63 4 cherry | | 367.32 2159 | | cherry | 337 748668.13 2159685.89 | 18 pine | 383 | 748755.19 | 2159684.51 12 pir | e | | |
| 1 | 748567.24 | 2159818.36 | 12 pine | 91 | | 2159857.48 | 18 pine | | 748886.44 2159736.34 | 3 cedar | 182 748711.18 2159680 | 34 15 pine | | 347.05 2159 ⁻ | | cherry | 338 748690.89 2159689.34 | 12 pine | 384 | 748742.95 | 2159696.94 14 pir | e | | |
| 2 | 748559.19 | 2159827.21 | 12 pine | 92 | | 2159836.55 | 22 pine | | 748874.13 2159703.29 | 13 pine | 184 748681.04 2159713. | 76 18 pine | | 807.98 2159 | | pine | 339 748671.72 2159683.59 | 19 pine | 1001 | 748582.70 | 2159717.42 16 pir | e | | |
| 3 | 748545.26 | 2159859.38 | 6 persimmon | 07 | | 2159850.55 | 5 cherry | 143 | 748843.66 2159642.44 | 13 pine | 185 748684.78 2159718 | 81 16 pine | | 8810.12 2159 | | cherry | 340 748647.99 2159720.80 | 13 pine | 1214 | 748494.25 | 2159833.19 12 pir | e | | |
| .4 | 748586.64 | 2159894.07 | 12 pine | 33 | | 2159840.55 | 20 pine | 145 | 748700.38 2159780.19 | 12 pine | 186 748701.22 2159685 | 57 13 pine | | 798.74 2159 | | pine | 341 748647.64 2159707.02 | 18 pine | 1215 | 748504.98 | 2159818.98 14 pir | e | | |
| ·5 | 748655.06 | 2159912.77 | 15 sycamore | 94 | | 2159853.16 | 17 pine | | 748693.87 2159781.28 | 13 pine | 187 748747.00 2159685 | 49 13 pine | | 8819.17 2159 | | pine | 342 748673.07 2159697.50 | 12 pine | 1216 | 748511.95 | 2159824.38 6 cher | у | | |
| 16 | 748528.78 | 2159878.21 | 15 pine | 95 | | 2159842.13 | 17 pine 14 pine | | 748715.70 2159759.39 | | 188 748754.96 2159665 | 72 12 pine | | 827.68 2159 | | pine | 342 748673.07 2133037.30 348 748681.07 2159675.82 | · · · · · · · · · · · · · · · · · · · | 1217 | 748671.86 | 2159994.88 21 ma | le | | |

| Trees to be Replaced Table | | | | | | |
|----------------------------|-----------|------------|---------------|--|--|--|
| Point # | Northing | Easting | Description | | | |
| 17 | 748493.25 | 2159914.25 | 14 maple | | | |
| 18 | 748492.19 | 2159920.14 | 19 maple . | | | |
| 28 | 748761.10 | 2160071.36 | 18 white oak | | | |
| 76 | 748374.01 | 2159885.29 | 12 pine | | | |
| 79 | 748424.55 | 2159896.48 | 12 pine | | | |
| 80 | 748455.80 | 2159898.59 | 12 pine | | | |
| 81 | 748462.85 | 2159904.99 | 14 pine | | | |
| 84 | 748412.19 | 2159884.19 | 14 pine | | | |
| 124 | 748877.55 | 2159638.09 | 12 pine | | | |
| 125 | 748869.95 | 2159617.75 | 12 pine | | | |
| 141 | 748871.62 | 2159620.78 | 14 pine | | | |
| 278 | 748346.38 | 2159805.72 | 25 pine | | | |
| 1269 | 748336.66 | 2159872.70 | 16 willow oak | | | |

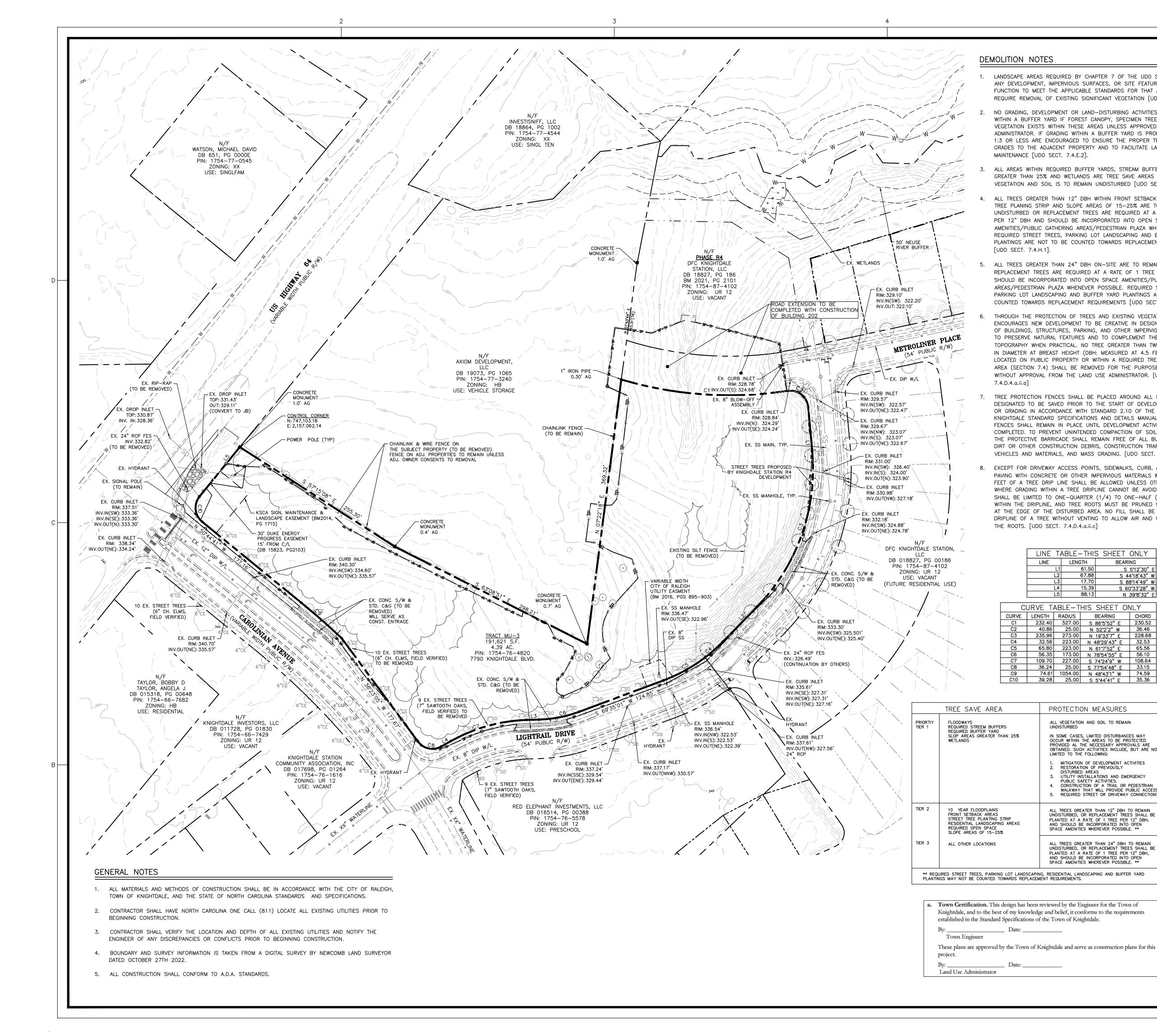
| NC ENGINEERING LICENSE NO. P-0803 |
|--|
| * 1419 NORTH CARO 1419 NORTH CARO 1419 NORTH CARO 1419 NORTH CARO NORTH CARO NORT |
| THE SITE GROUP, PLLC. THE SITE GROUP, PLLC. |
| CONSTRUCTION DRAWINGS FOR: ATLAS STARK KNIGHTDALE STATION MIXED-USE 0 & 7790 KNIGHTDALE BLVD., KNIGHTDALE, NC ST. MATTHEW'S TOWNSHIP WAKE COUNTY |
| Drawn By JHJ Checked By SRN |
| DATE: 02 AUG 2024 REVISED: 120 SEP 2024 |
| CONSTRUCTION DRAWINGS MORNING FLYER WAY TREE |
| न POINT DATA |
| TABLE SHEET Job Code ASKSCD NO. |
| Copyright © 2024 |

CERT. NO. 353

a. 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: ____ Land Use Administrator



LANDSCAPE AREAS REQUIRED BY CHAPTER 7 OF THE UDO SHALL NOT CONTAIN ANY DEVELOPMENT, IMPERVIOUS SURFACES, OR SITE FEATURES THAT DO NOT FUNCTION TO MEET THE APPLICABLE STANDARDS FOR THAT AREA OR THAT REQUIRE REMOVAL OF EXISTING SIGNIFICANT VEGETATION [UDO SECT. 7.4.E.1].

NO GRADING, DEVELOPMENT OR LAND-DISTURBING ACTIVITIES SHALL OCCUR WITHIN A BUFFER YARD IF FOREST CANOPY, SPECIMEN TREES OR SIGNIFICANT VEGETATION EXISTS WITHIN THESE AREAS UNLESS APPROVED BY THE LAND USE ADMINISTRATOR. IF GRADING WITHIN A BUFFER YARD IS PROPOSED, SLOPES OF 1:3 OR LESS ARE ENCOURAGED TO ENSURE THE PROPER TRANSITION OF GRADES TO THE ADJACENT PROPERTY AND TO FACILITATE LANDSCAPING AND

ALL AREAS WITHIN REQUIRED BUFFER YARDS, STREAM BUFFERS, SLOPE AREAS GREATER THAN 25% AND WETLANDS ARE TREE SAVE AREAS AND ALL VEGETATION AND SOIL IS TO REMAIN UNDISTURBED [UDO SECT. 7.4.H.1].

ALL TREES GREATER THAN 12" DBH WITHIN FRONT SETBACK AREAS, STREET TREE PLANING STRIP AND SLOPE AREAS OF 15-25% ARE TO REMAIN UNDISTURBED OR REPLACEMENT TREES ARE REQUIRED AT A RATE OF 1 TREE PER 12" DBH AND SHOULD BE INCORPORATED INTO OPEN SPACE AMENITIES/PUBLIC GATHERING AREAS/PEDESTRIAN PLAZA WHENEVER POSSIBLE. REQUIRED STREET TREES, PARKING LOT LANDSCAPING AND BUFFER YARD PLANTINGS ARE NOT TO BE COUNTED TOWARDS REPLACEMENT REQUIREMENTS

ALL TREES GREATER THAN 24" DBH ON-SITE ARE TO REMAIN UNDISTURBED OR REPLACEMENT TREES ARE REQUIRED AT A RATE OF 1 TREE PER 12" DBH AND SHOULD BE INCORPORATED INTO OPEN SPACE AMENITIES/PUBLIC GATHERING AREAS/PEDESTRIAN PLAZA WHENEVER POSSIBLE. REQUIRED STREET TREES, PARKING LOT LANDSCAPING AND BUFFER YARD PLANTINGS ARE NOT TO BE COUNTED TOWARDS REPLACEMENT REQUIREMENTS [UDO SECT. 7.4.H.1].

THROUGH THE PROTECTION OF TREES AND EXISTING VEGETATION, THE TOWN ENCOURAGES NEW DEVELOPMENT TO BE CREATIVE IN DESIGN AND PLACEMENT OF BUILDINGS, STRUCTURES, PARKING, AND OTHER IMPERVIOUS SURFACES AS TO PRESERVE NATURAL FEATURES AND TO COMPLEMENT THE EXISTING TOPOGRAPHY WHEN PRACTICAL. NO TREE GREATER THAN TWELVE (12) INCHES IN DIAMETER AT BREAST HEIGHT (DBH: MEASURED AT 4.5 FEET ABOVE GRADE) LOCATED ON PUBLIC PROPERTY OR WITHIN A REQUIRED TREE PROTECTION AREA (SECTION 7.4) SHALL BE REMOVED FOR THE PURPOSE OF SURVEYING WITHOUT APPROVAL FROM THE LAND USE ADMINISTRATOR. [UDO SECT.

TREE PROTECTION FENCES SHALL BE PLACED AROUND ALL PROTECTED TREES DESIGNATED TO BE SAVED PRIOR TO THE START OF DEVELOPMENT ACTIVITIES OR GRADING IN ACCORDANCE WITH STANDARD 2.10 OF THE TOWN OF KNIGHTDALE STANDARD SPECIFICATIONS AND DETAILS MANUAL. TREE PROTECTION FENCES SHALL REMAIN IN PLACE UNTIL DEVELOPMENT ACTIVITIES ARE COMPLETED. TO PREVENT UNINTENDED COMPACTION OF SOIL, THE AREA WITHIN THE PROTECTIVE BARRICADE SHALL REMAIN FREE OF ALL BUILDING MATERIALS, DIRT OR OTHER CONSTRUCTION DEBRIS, CONSTRUCTION TRAFFIC, STORAGE OF VEHICLES AND MATERIALS, AND MASS GRADING. [UDO SECT. 7.4.D.4.a.ii.b]

EXCEPT FOR DRIVEWAY ACCESS POINTS, SIDEWALKS, CURB, AND GUTTER: NO PAVING WITH CONCRETE OR OTHER IMPERVIOUS MATERIALS WITHIN FIVE (5) FEET OF A TREE DRIP LINE SHALL BE ALLOWED UNLESS OTHERWISE APPROVED. WHERE GRADING WITHIN A TREE DRIPLINE CANNOT BE AVOIDED, CUT AND FILL SHALL BE LIMITED TO ONE-QUARTER (1/4) TO ONE-HALF (1/2) OF THE AREA WITHIN THE DRIPLINE, AND TREE ROOTS MUST BE PRUNED WITH CLEAN CUTS AT THE EDGE OF THE DISTURBED AREA. NO FILL SHALL BE PLACED WITHIN THE DRIPLINE OF A TREE WITHOUT VENTING TO ALLOW AIR AND WATER TO REACH

| | | S SHE | | | | | | |
|------|------------------|-----------|-------|---------------------|--|--|--|--|
| LENG | | | BEARI | | | | | |
| | 61.50 | | S | 5°12'30" E | | | | |
| | 67.88 | | S 4- | 4 ' 18'43" W | | | | |
| | 17.70 | | S 8 | 814'49" W | | | | |
| | 15.39 | | | 0'33'28" W | | | | |
| | 88.13 | | | 39 ° 8'32"E | | | | |
| | | | | | | | | |
| — T | -THIS SHEET ONLY | | | | | | | |
| US | | BEARING | | CHORD | | | | |
| 7.00 | S | 86*5'52" | Е | 230.52 | | | | |
| 5.00 | N | 52'2'2" | W | 36.46 | | | | |
| 3.00 | | 19'33'7" | E | 228.68 | | | | |
| 3.00 | | 18"29'43" | Έ | 32.53 | | | | |
| 3.00 | | 61'7'52" | Е | 65.56 | | | | |
| 3.00 | | 78*54'55' | | 56.10 | | | | |
| 7.00 | | 74'24'9" | | 108.64 | | | | |
| 5.00 | | 7'54'48" | | 33.15 | | | | |
| 4.00 | N | 48'43'1" | | 74.59 | | | | |
| 5.00 | | 5'44'41" | E | 35.36 | | | | |

PROTECTION MEASURES

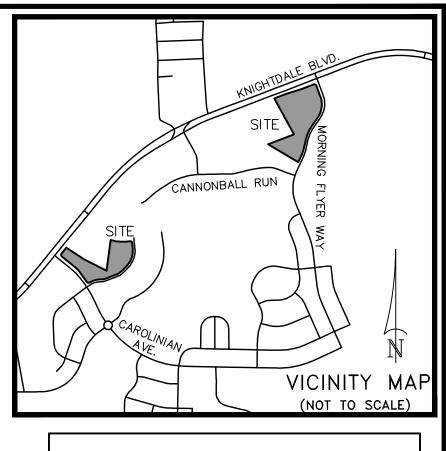
ALL VEGETATION AND SOIL TO REMAIN

IN SOME CASES, LIMITED DISTURBANCES MAY OCCUR WITHIN THE AREAS TO BE PROTECTED PROVIDED AL THE NECESSARY APPROVALS ARE OBTAINED. SUCH ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

MITIGATION OF DEVELOPMENT ACTIVITIES RESTORATION OF PREVIOUSLY DISTURBED AREAS UTILITY INSTALLATIONS AND EMERGENCY PUBLIC SAFETY ACTIVITIES. CONSTRUCTION OF A TRAIL OR PEDESTRIAN WALKWAY THAT WILL PROVIDE PUBLIC ACCESS. REQUIRED STREET OR DRIVEWAY CONNECTIONS.

ALL TREES GREATER THAN 12" DBH TO REMAIN UNDISTURBED, OR REPLACEMENT TREES SHALL BE PLANTED AT A RATE OF 1 TREE PER 12" DBH, AND SHOULD BE INCORPORATED INTO OPEN

ALL TREES GREATER THAN 24" DBH TO REMAIN UNDISTURBED, OR REPLACEMENT TREES SHALL BE PLANTED AT A RATE OF 1 TREE PER 12" DBH, AND SHOULD BE INCORPORATED INTO OPEN SPACE AMENITIES WHEREVER POSSIBLE. **



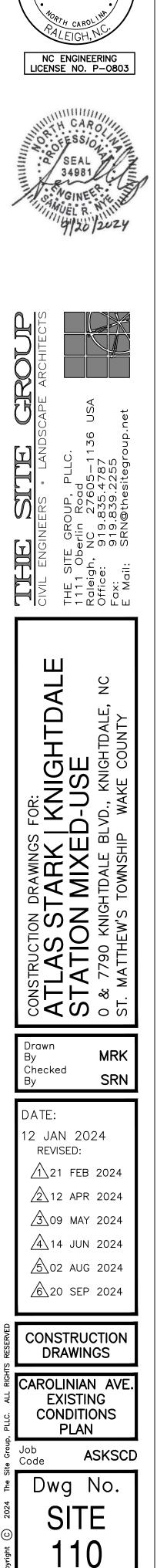
LINE LEGEND

| | PROPERTY BOUNDARY LINE |
|-----|-----------------------------|
| | ADJACENT LOT LINE |
| | SETBACK LINE |
| | EXISTING EASEMENTS |
| × _ | EXISTING FENCE LINE |
| | EXISTING ROW LINE |
| | PROPOSED ROW LINE |
| SS | EXISTING STORM DRAIN LINE |
| | PROPOSED STORM DRAIN LINE |
| 9TP | TREE PROTECTION FENCE LINE |
| LD | LIMITS OF DISTURBANCE LINE |
| | EXISTING MAJOR CONTOUR LINE |
| | EXISTING MINOR CONTOUR LINE |
| | PROPOSED MAJOR CONTOUR LINE |
| | PROPOSED MINOR CONTOUR LINE |
| | |

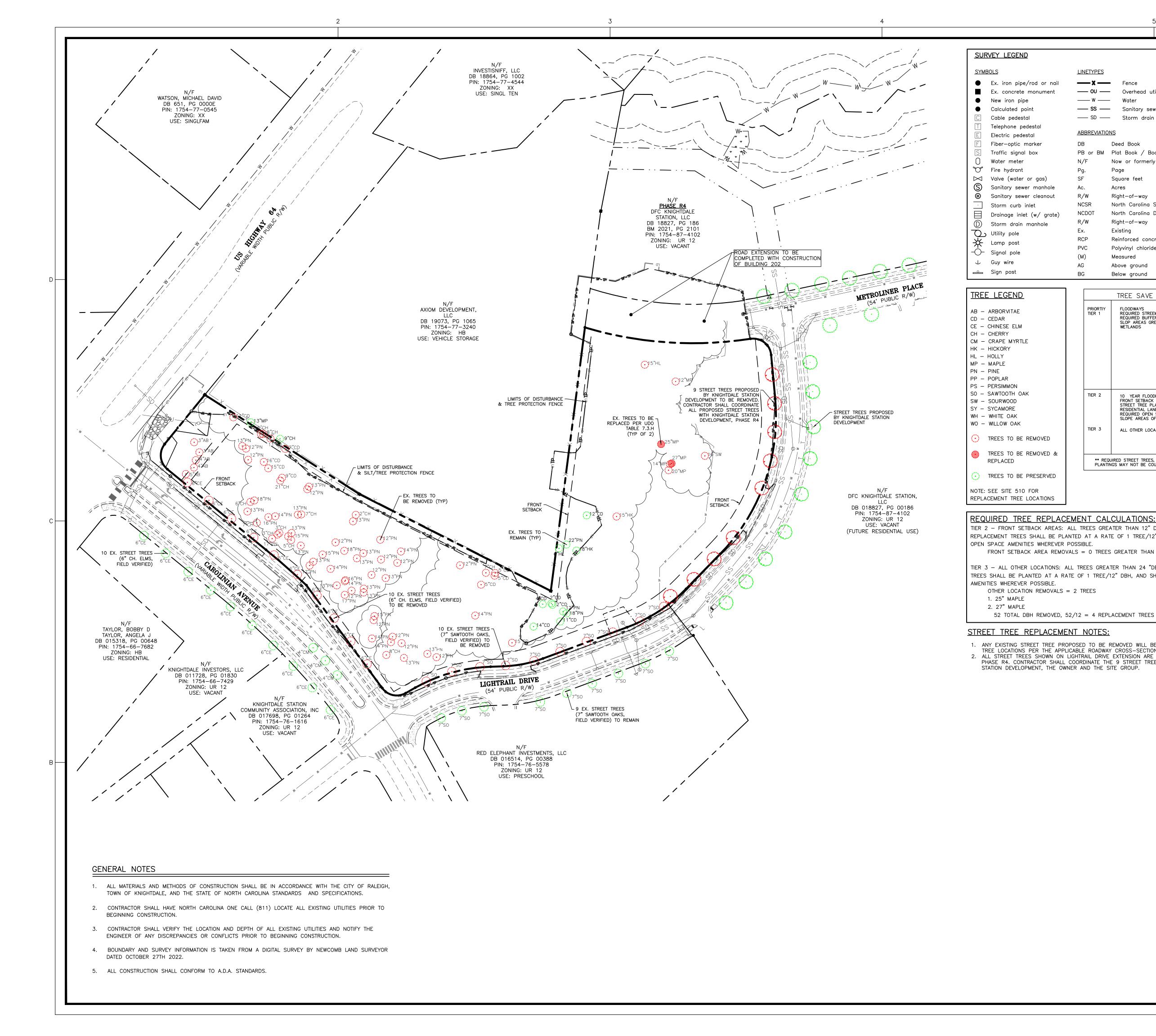
| SUR | VEY LEGEND | | | |
|-------------|--|--|---|---------------------------|
| <u>SYME</u> | OLS | <u>LINETYPES</u> | | |
| | Ex. iron pipe/rod or nail Ex. concrete monument New iron pipe Calculated point Cable pedestal Telephone pedestal Electric pedestal Fiber-optic marker Traffic signal box Water meter Fire hydrant Valve (water or gas) Sanitary sewer cleanout Storm curb inlet Drainage inlet (w/ grate) Storm drain manhole Utility pole Lamp post Signal pole Guy wire | OU O | Overhead utility Water Sanitary sewer Storm drain Deed Book Plat Book / Book of Maps Now or formerly Page Square feet Acres Right-of-way North Carolina State Route North Carolina Dept. of Transportation Right-of-way Existing Reinforced concrete pipe Polyvinyl chloride pipe Measured Above ground | |
| | Sign post | AG BG | Above ground Below ground | PLLC. ALL RIGHTS RESERVED |
| | EXISTING (| <u>cone</u> | DITIONS PLAN | Group, PLLC. |

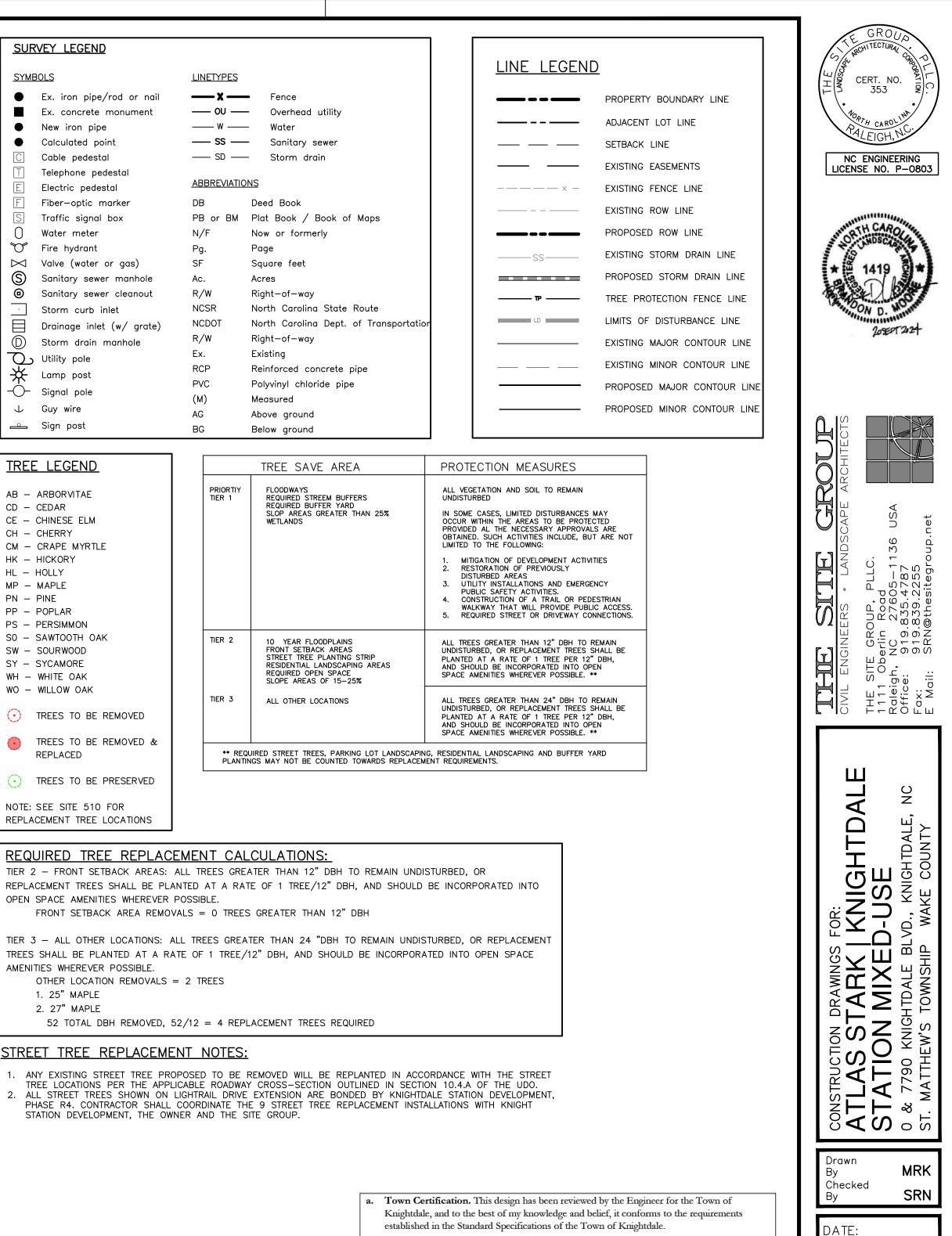
(DRAWING SCALED FOR 24x36 INCH PLOTS)

SCALE: $1'' = 60^{\circ}$



CERT. NO.





By: _____ Town Engineer

These plans are approved by the Town of Knightdale and serve as construction plans for this project.

12 APR 2024

<u>/1</u>02 AUG 2024

CONSTRUCTION

DRAWINGS

CAROLINIAN AVE

EXISTING

TREE COVERAGE

PLAN

Dwg No.

SITE

11

ASKSCD

Job

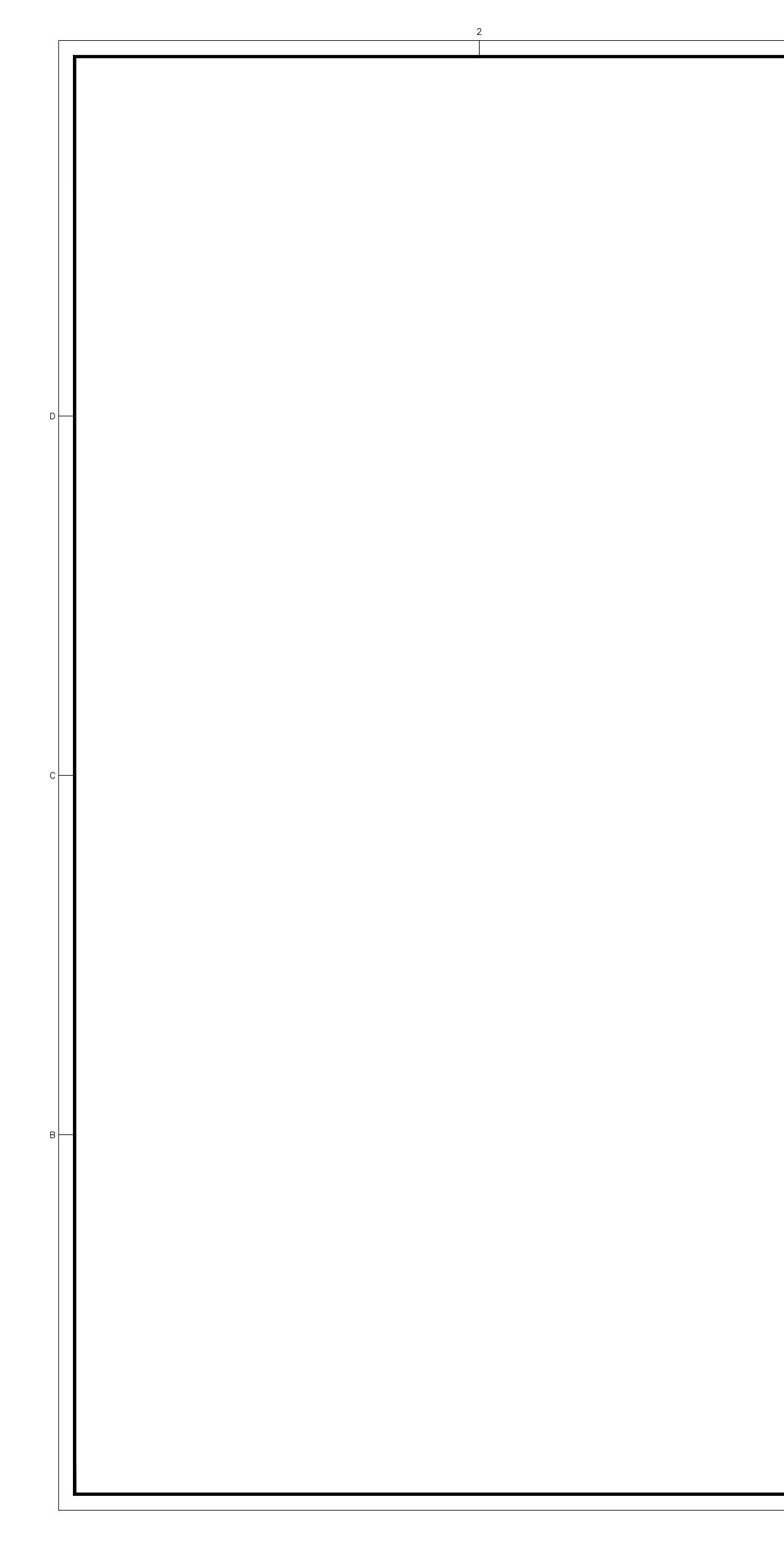
Code

REVISED:

Date:

By: _____ Date: Land Use Administrator





| Т | Trees to be Removed Table | | | | | | |
|---------|---------------------------|------------|-------------|--|--|--|--|
| Point # | Northing | Easting | Description | | | | |
| 213 | 747121.61 | 2157716.23 | 12 maple | | | | |
| 216 | 747006.64 | 2157708.49 | 14 maple | | | | |
| 217 | 746998.34 | 2157706.36 | 20 maple | | | | |
| 218 | 747018.24 | 2157756.91 | 16 sourwood | | | | |
| 219 | 746933.96 | 2157634.20 | 15 hickory | | | | |
| 224 | 746758.41 | 2157488.96 | 15 cedar | | | | |
| 225 | 746796.30 | 2157437.80 | 14 pine | | | | |
| 226 | 746738.36 | 2157384.06 | 12 pine | | | | |
| 227 | 746743.04 | 2157371.37 | 13 pine | | | | |
| 228 | 746737.36 | 2157338.81 | 13 pine | | | | |
| 229 | 746759.31 | 2157320.71 | 14 pine | | | | |
| 230 | 746757.85 | 2157335.52 | 12 pine | | | | |
| 231 | 746766.85 | 2157322.95 | 12 pine | | | | |
| 232 | 746741.49 | 2157314.32 | 8 cherry | | | | |
| 233 | 746764.38 | 2157294.34 | 14 pine | | | | |
| 234 | 746789.91 | 2157296.66 | 12 pine | | | | |
| 235 | 746795.55 | 2157297.79 | 15 pine | | | | |
| 236 | 746828.32 | 2157282.74 | 13 pine | | | | |
| 237 | 746833.66 | 2157282.91 | 13 pine | | | | |
| 238 | 746830.88 | 2157266.00 | 12 pine | | | | |

| Т | rees to be | e Removed | Table |
|-----|------------|------------|----------|
| 239 | 746825.06 | 2157256.52 | 17 pine |
| 240 | 746838.17 | 2157245.51 | 13 pine |
| 241 | 746843.97 | 2157256.75 | 14 pine |
| 242 | 746845.43 | 2157257.49 | 16 pine |
| 243 | 746861.12 | 2157236.80 | 14 pine |
| 244 | 746865.82 | 2157207.73 | 17 pine |
| 245 | 746871.13 | 2157212.73 | 13 pine |
| 246 | 746881.14 | 2157225.71 | 15 pine |
| 247 | 746897.97 | 2157243.69 | 12 pine |
| 248 | 746886.24 | 2157255.91 | 18 pine |
| 249 | 746893.53 | 2157195.37 | 13 pine |
| 250 | 746901.10 | 2157182.07 | 5 cherry |
| 251 | 746906.38 | 2157177.93 | 15 pine |
| 252 | 746911.04 | 2157182.62 | 13 pine |
| 253 | 746936.84 | 2157196.20 | 7 cherry |
| 254 | 746936.56 | 2157191.37 | 13 pine |
| 255 | 746911.08 | 2157165.67 | 3 cherry |
| 256 | 746908.93 | 2157163.12 | 3 cherry |
| 257 | 746903.16 | 2157155.62 | 17 pine |
| 258 | 746934.22 | 2157159.95 | 14 pine |

| | Trees to | be Remov | ed Table |
|-----|-----------|------------|------------------|
| 259 | 746933.07 | 2157150.45 | 16 pine |
| 260 | 746925.27 | 2157134.34 | 7 cherry |
| 261 | 746940.92 | 2157121.31 | 13 pine |
| 262 | 746954.28 | 2157125.44 | 6 cherry |
| 263 | 746956.22 | 2157130.87 | 18 pine |
| 264 | 747012.78 | 2157122.31 | 12 pine |
| 265 | 747023.16 | 2157054.57 | 3 leland cypress |
| 266 | 747012.23 | 2157049.61 | 4 leland cypress |
| 267 | 747002.03 | 2157047.01 | 4 leland cypress |
| 268 | 746993.04 | 2157035.83 | 5 leland cypress |
| 269 | 747037.14 | 2157047.32 | 3 leland cypress |
| 270 | 747031.86 | 2157114.26 | 13 pine |
| 271 | 747028.40 | 2157119.40 | 12 pine |
| 444 | 747144.93 | 2157673.43 | 15 holly |
| 452 | 746855.34 | 2157465.61 | 5 cedar |
| 453 | 746851.69 | 2157464.73 | 5 cedar |
| 454 | 746839.21 | 2157445.94 | 5 cedar |
| 455 | 746855.67 | 2157452.65 | 7 cherry |
| 456 | 746866.15 | 2157416.70 | 12 pine |
| 457 | 746885.33 | 2157334.61 | 14 pine |

| Т | rees to be | e Removed | Table |
|-----|------------|------------|-----------|
| 458 | 746869.58 | 2157329.55 | 12 pine |
| 459 | 746848.29 | 2157313.34 | 13 pine |
| 460 | 746874.11 | 2157306.93 | 12 pine |
| 461 | 746852.79 | 2157293.73 | 12 pine |
| 462 | 746875.85 | 2157273.40 | 13 pine |
| 463 | 746882.91 | 2157282.34 | 13 pine |
| 464 | 746901.68 | 2157305.96 | 12 pine |
| 465 | 746927.18 | 2157268.02 | 13 pine |
| 466 | 746936.31 | 2157271.90 | 2 cherry |
| 467 | 746975.41 | 2157206.71 | 13 pine |
| 468 | 746971.87 | 2157204.44 | 12 pine |
| 469 | 746983.82 | 2157166.99 | 21 cherry |
| 470 | 746987.79 | 2157169.38 | 9 cedar |
| 471 | 747027.93 | 2157173.92 | 7 cedar |
| 472 | 747009.82 | 2157144.12 | 16 cedar |
| 473 | 747000.93 | 2157150.28 | 15 cedar |
| 474 | 747042.32 | 2157153.31 | 11 cedar |
| 476 | 747048.68 | 2157142.96 | 8 cedar |
| 477 | 747048.88 | 2157139.99 | 6 cherry |
| 479 | 747071.78 | 2157101.76 | 11 cedar |

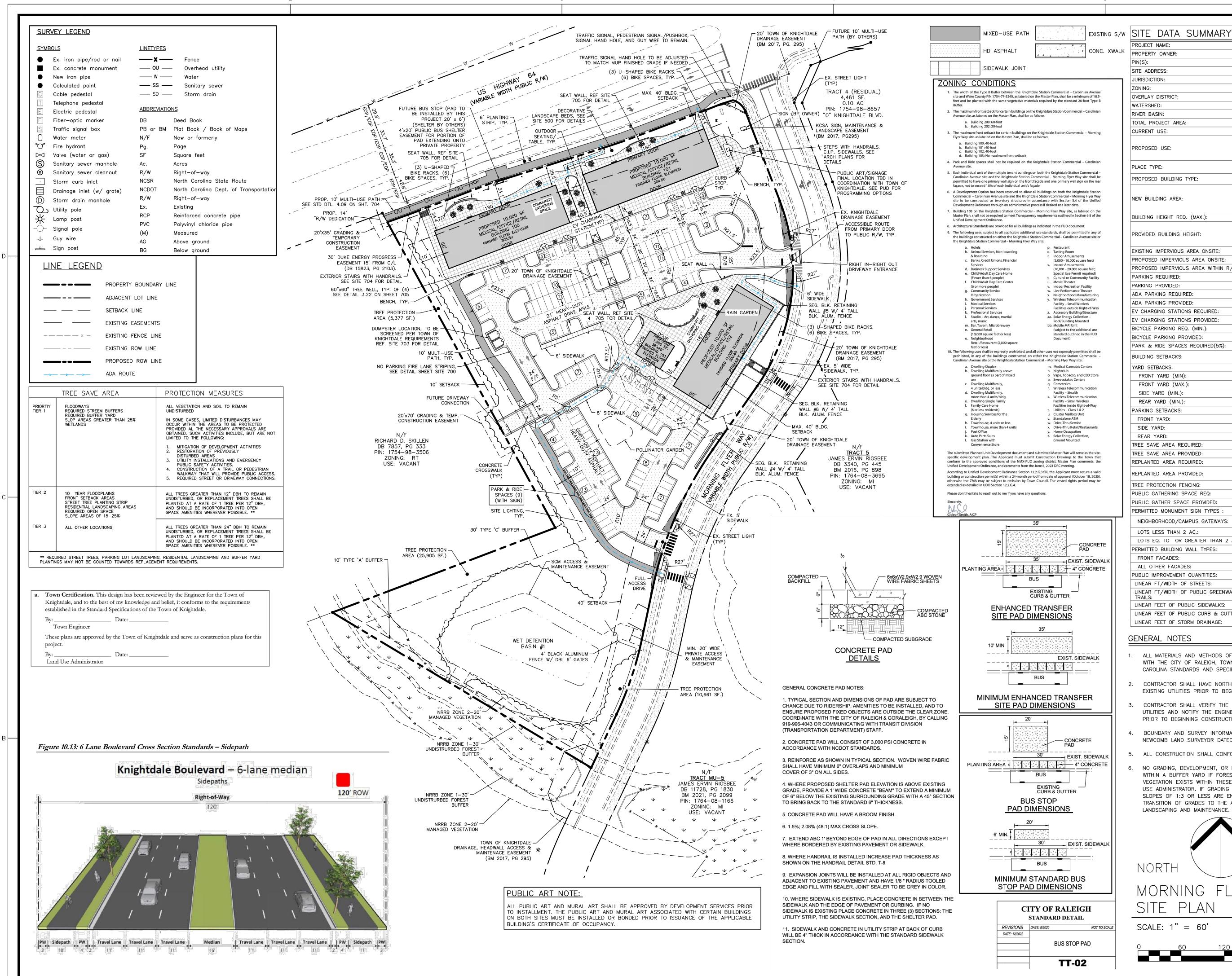
| Trees to be Replaced Table | | | | | |
|----------------------------|-----------|------------|-------------|--|--|
| Point # | Northing | Easting | Description | | |
| 214 | 747034.55 | 2157696.02 | 25 maple | | |
| 215 | 747007.73 | 2157710.62 | 27 maple | | |



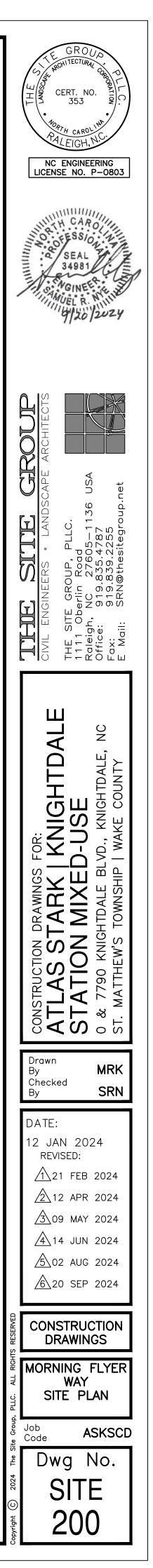
| a. | Town Certification. This design has been reviewed by the Engineer for the Town of | |
|----|--|------|
| | Knightdale, and to the best of my knowledge and belief, it conforms to the requirements | |
| | established in the Standard Specifications of the Town of Knightdale. | |
| | By: Date: | |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

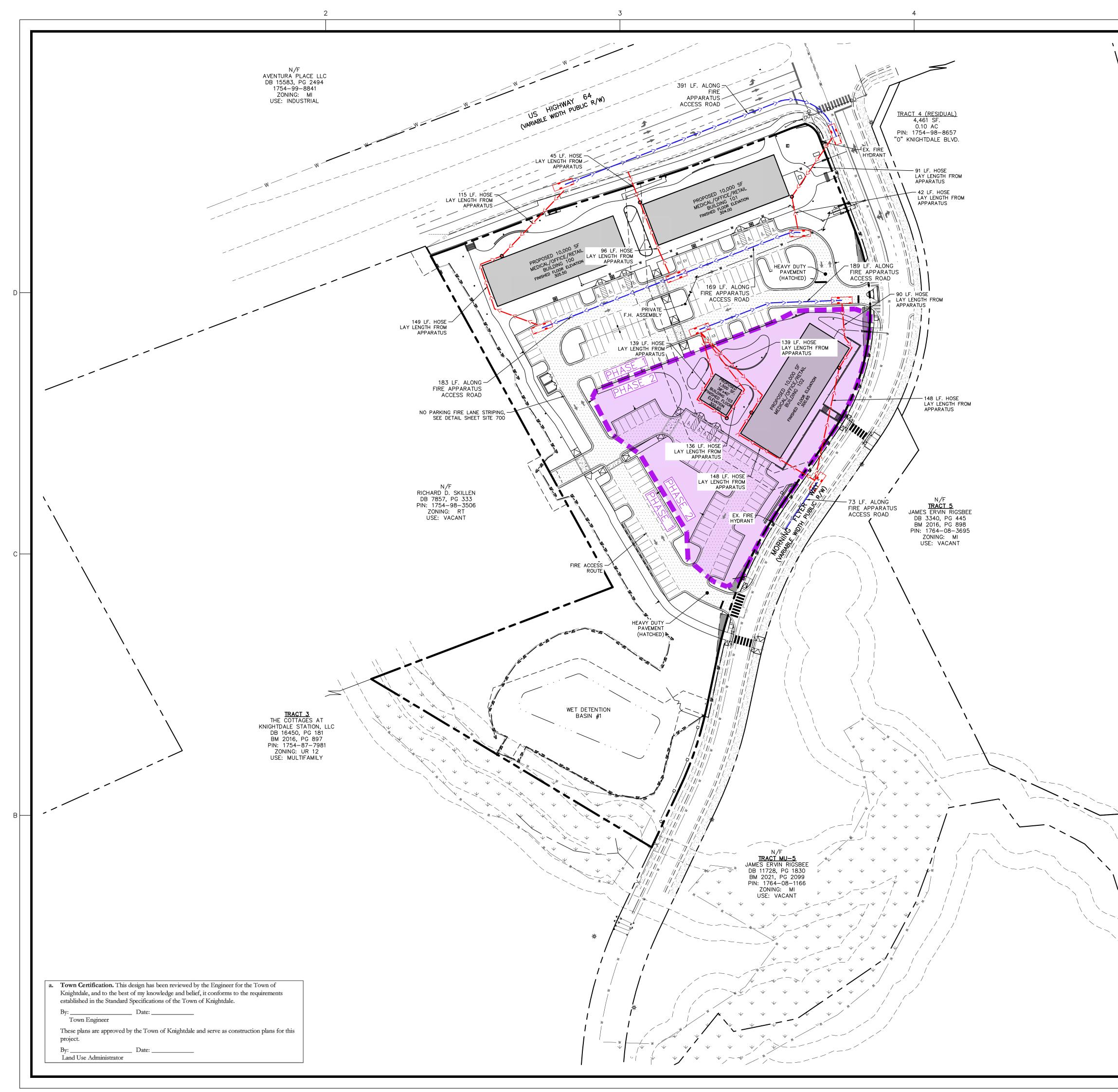
project. By: _____ Date: _____

By: _____ Date: _____ Land Use Administrator



| PROJECT NAME: | KNICHTRALE STATION MORNING ELVER WAY |
|--|--|
| PROPERTY OWNER: | KNIGHTDALE STATION - MORNING FLYER WAY KNIGHTDALE COMMERCIAL, LLC |
| PIN(S): | 1754988657 |
| SITE ADDRESS: JURISDICTION: | 0 KNIGHTDALE BLVD KNIGHTDALE |
| ZONING: | NMX-PUD |
| OVERLAY DISTRICT: WATERSHED: | N/A MARKS CREEK |
| RIVER BASIN: | NEUSE |
| TOTAL PROJECT AREA: | 6.87 AC. |
| CURRENT USE: | VACANT MEDICAL, OFFICE, PROFESSIONAL SERVICES, |
| PROPOSED USE: | GENERAL RETAIL, AND NEIGHBORHOOD RETAIL/RESTAURANT (UDO 6.8) (SEE APPROVED ZONING CONDITIONS 9 & 10) |
| PLACE TYPE: | MIXED-USE CENTER |
| PROPOSED BUILDING TYPE: | MIXED USE BUILDING |
| NEW BUILDING AREA: | BUILDING 100: 10,000 SF. BUILDING 101: 10,000 SF. BUILDING 102: 10,000 SF. BUILDING 103: <u>1,500 SF.</u> |
| BUILDING HEIGHT REQ. (MAX.): | TOTAL BLDG AREA: 31,500 SF. 56', 4 STORIES (UDO 3.4) |
| PROVIDED BUILDING HEIGHT: | BUILDING $100 = 31'-0"$ BUILDING $101 = 31'-4"$ BUILDING $102 = 22'-4"$ |
| | $\begin{array}{r} \text{BUILDING 102} = 22 - 4\\ \text{BUILDING 103} = 20' - 0''\\ 0 \text{ SF.} \end{array}$ |
| EXISTING IMPERVIOUS AREA ONSITE: PROPOSED IMPERVIOUS AREA ONSITE: | 147,192 SF. |
| PROPOSED IMPERVIOUS AREA WITHIN R/W | 3,948 SF. |
| PARKING REQUIRED: | 87 SPACES (MIN.) - 173 SPACES (MAX.) |
| PARKING PROVIDED: | 173 SPACES 6 SPACES |
| ADA PARKING REQUIRED: | 12 SPACES |
| EV CHARGING STATIONS REQUIRED: | 4 CHARGING STATIONS (1/40 MOTOR VEH.) |
| EV CHARGING STATIONS PROVIDED: | 4 CHARGING STATIONS 17 SPACES (1/10 MOTOR VEH.) |
| BICYCLE PARKING REQ. (MIN.): BICYCLE PARKING PROVIDED: | 17 SPACES (1/10 MOTOR VEH.) 18 SPACES |
| PARK & RIDE SPACES REQUIRED(5%): | 173(.05) = 9 SPACES REQ'D/PROVIDED |
| BUILDING SETBACKS: | PLEASE SEE ZONING CONDITIONS #2 & #3 FOR BUILDING SETBACK REQUIREMENTS |
| YARD SETBACKS: | |
| FRONT YARD (MIN): | 0' |
| FRONT YARD (MAX.): SIDE YARD (MIN.): | 10' 10' (IF PARTIWALL EXISTS, 0' SIDE YARD MIN.) |
| REAR YARD (MIN.): | 0' |
| PARKING SETBACKS: | |
| FRONT YARD: | N/A 0' |
| SIDE YARD: REAR YARD: | 5' |
| TREE SAVE AREA REQUIRED: | 10% - 0.69 AC. |
| TREE SAVE AREA PROVIDED: | 14.0% - 0.96 AC. |
| REPLANTED AREA REQUIRED: | 0.0 AC. 4,166 SF./0.09 AC. (AREA PROVIDED FOR |
| REPLANTED AREA PROVIDED: | SOUTH SITE REQUIREMENT) |
| TREE PROTECTION FENCING: PUBLIC GATHERING SPACE REQ: | 1,397 LF. 500 SF |
| PUBLIC GATHER SPACE PROVIDED: | 38,826 SF |
| PERMITTED MONUMENT SIGN TYPES : | (UDO 8.5) |
| | |
| NEIGHBORHOOD/CAMPUS GATEWAYS: | 16 SF MAX AREA – 7' MAX HEIGHT – 2 PER ENTRANCE |
| LOTS LESS THAN 2 AC.: | ENTRANCE 25 SF MAX AREA – 4' MAX HEIGHT – 2** |
| LOTS LESS THAN 2 AC.: LOTS EQ. TO OR GREATER THAN 2 AC.: | ENTRANCE |
| LOTS LESS THAN 2 AC.: | ENTRANCE 25 SF MAX AREA – 4' MAX HEIGHT – 2** |
| LOTS LESS THAN 2 AC.: LOTS EQ. TO OR GREATER THAN 2 AC.: PERMITTED BUILDING WALL TYPES: FRONT FACADES: ALL OTHER FACADES: | ENTRANCE 25 SF MAX AREA – 4' MAX HEIGHT – 2** 50 SF MAX AREA – 7' MAX HEIGHT – 2** |
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| | <u>SYMB</u> | OLS | LINE | <u>IYPES</u> | | | | ·/ / |
| | | Ex. iron pipe/rod or i | | · x — | Fence | | PALEIGH, N.C. | , , |
| | | Ex. concrete monume New iron pipe | | ou w | , | | | NG |
| | • | Calculated point | | ss — | Sanitary sewer | | LICENSE NO. P- | |
| | | Cable pedestal Telephone pedestal | | SD —— | Storm drain | | | |
| | Ε | Electric pedestal | ABBF | REVIATIO | | | WILL CARO | 11, |
| | F | Fiber—optic marker Traffic signal box | DB PB c | or BM | Deed Book Plat Book / Book of Maps | | SO FESSION | NI |
| | 0 | Water meter | N/F | | Now or formerly | | SEAL SEAL | 1/7 |
| | \bowtie | Fire hydrant Valve (water or gas) | Pg. SF | | Page Square feet | | The Noweet | 13 |
| | S | Sanitary sewer manho | le Ac. | | Acres | | SAMUEL R N | IIIIE |
| | ■ | Sanitary sewer cleanor Storm curb inlet | ut R/W NCSF | २ | Right-of-way North Carolina State Route | | 9/20/2 | UZY |
| | | Drainage inlet (w/ gro | nte) NCDO | | North Carolina Dept. of Transportatior | | | |
| | \bigcirc | Storm drain manhole | R/W Ex. | | Right-of-way Existing | | | |
| | ж С | Utility pole Lamp post | RCP | | Reinforced concrete pipe | | | |
| | -⊖- | Signal pole | PVC (M) | | Polyvinyl chloride pipe Measured | | | |
| | \downarrow | Guy wire | (M) AG | | Above ground | | | |
| l | | Sign post | BG | | Below ground | | | |
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| GENERA | | TES | | | | | | COUNTY |
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| 5. ALL C | CONSTRU | JCTION SHALL CONFORM | I TO A.D.A. ST | ANDARDS | 5. | | | |
| | | DEVELOPMENT, OR LAN FFER YARD IF FOREST (| | | | | | ΨA |
| VEGET | TATION E | EXISTS WITHIN THESE AN | REAS, UNLESS | APPROV | ED BY THE LAND | | | ST. |
| SLOPE | ES OF 1 | 1:3 OR LESS ARE ENCO OF GRADES TO THE ADJ | URAGED TO EN | NSURE 1 | HE PROPER | | | |
| | | AND MAINTENANCE. | ACENT FROFER | AND | TO FACILITATE | | Drawn By N | I RK |
| FIRE ACC | ESS | <u>NOTES</u> | | | | | Checked By S | SRN |
| OF THE | BUILDIN | T MUST BE WITHIN 400 IG FOR NON-SPRINKLEI NCFC 507.5.1). | | | | | DATE: | |
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(DRAWING SCALED FOR 24x36 INCH PLOTS)

PROT. & PHASING PLAN

SCALE: 1" = 60'

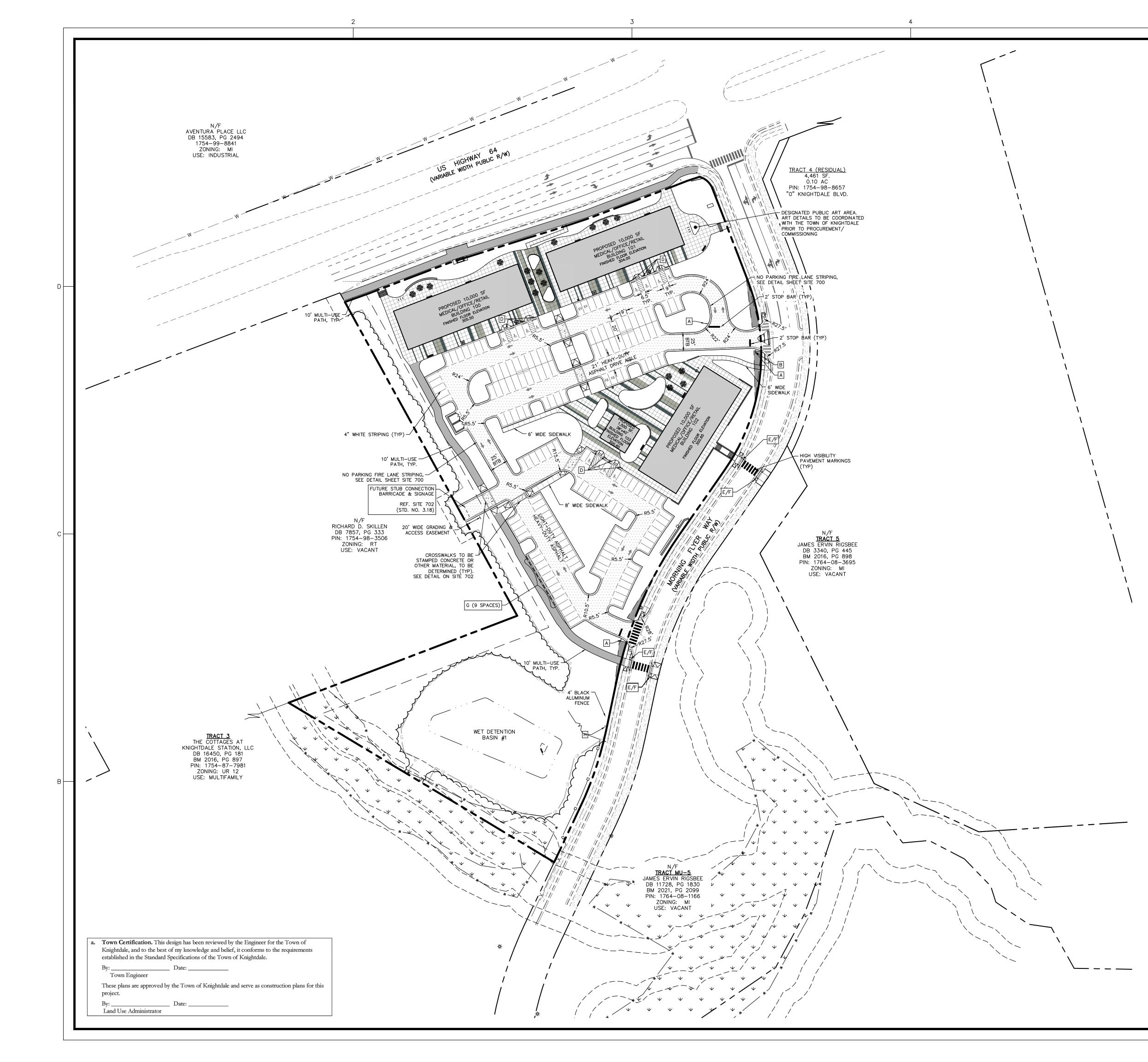
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| GE | NERAL NOTES | 0 | TE GRO |) U D |
|-----|---|---------------------|---|--|
| 1. | ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH, TOWN OF KNIGHTDALE, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS. | THE | CERT. 1 | 9 • |
| 2. | CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. | | PALEIGH | 1, N.C |
| 3. | CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION. | | NC ENGIN ICENSE NO | |
| 4. | BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A DIGITAL SURVEY BY NEWCOMB LAND SURVEYOR DATED OCTOBER 27TH 2022. | 111. | INTH CA | ROL |
| 5. | ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS. | THUM | SEA | NY |
| 6. | NO GRADING, DEVELOPMENT, OR LAND-DISTURBING ACTIVITIES SHALL OCCUR WITHIN A BUFFER YARD IF FOREST CANOPY, SPECIMEN TREES, OR SIGNIFICANT VEGETATION EXISTS WITHIN THESE AREAS, UNLESS APPROVED BY THE LAND USE ADMINISTRATOR. IF GRADING WITHIN A BUFFER YARD IS PROPOSED, SLOPES OF 1:3 OR LESS ARE ENCOURAGED TO ENSURE THE PROPER TRANSITION OF GRADES TO THE ADJACENT PROPERTY AND TO FACILITATE LANDSCAPING AND MAINTENANCE. | IIIII | SANGING SAMUEL F | ER C |
| STR | RIPING NOTES | | | |
| 1. | ALL MARKINGS AND SIGNAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH MUTCD STANDARDS, INCLUDING COLOR, LETTER HEIGHT, AND LETTER CASE OF THE STREET NAMES. | Ê | | |
| 2. | ALL PAVEMENT MARKING SHALL BE THERMOPLASTIC. | エ | CHITE | |
| 3. | ANY EXISTING PAVEMENT STRIPING THAT IS IN CONFLICT WITH THE PROPOSED STRIPING SHOWN ON THIS PLAN SHALL BE REMOVED. | R R | AR | |
| | | U | 0 | NSA |
| | MIXED-USE PATH | [7] | ANDS C. | 1136 |
| • | HD ASPHALT | F | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| | SIDEWALK JOINT | $\overline{\Sigma}$ | ENGINEERS • SITE GROUP, F Oberlin Road | 276 835. |
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| | RESERVED | ONSTRUCTION | | 7790 |
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| | | | S K (). |) 0 |
| | R5-1 | Dr By | awn | М |
| | 30"X30" R7-8 12"X18" | | necked | S |
| | | | TE: | |
| | | 12 | JAN 20 |)24 |
| | | | REVISED: $1/21$ FEE | יחכ ג |
| | W16-17P 24"X12" | | <u> </u> FEt | s ∠0 |

W16-17P 24"X12"

WARNING UNSAFE TO ENTER

W11-2 30"X30"

PARK -

RIDE

 \rightarrow

D4-2 30"X36"

(DRAWING SCALED FOR 24x36 INCH PLOTS)

(H)

G

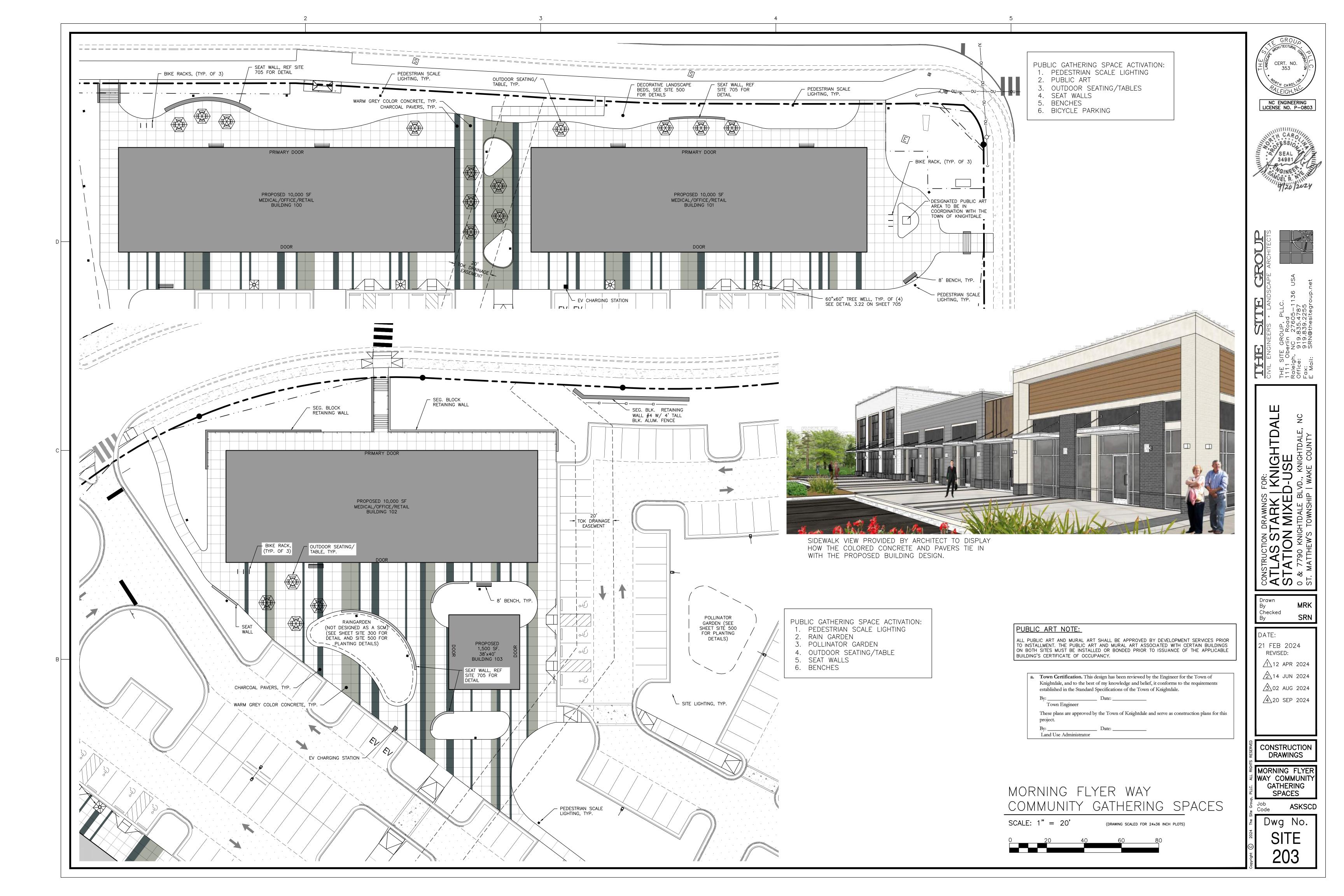
MORNING FLYER WAY

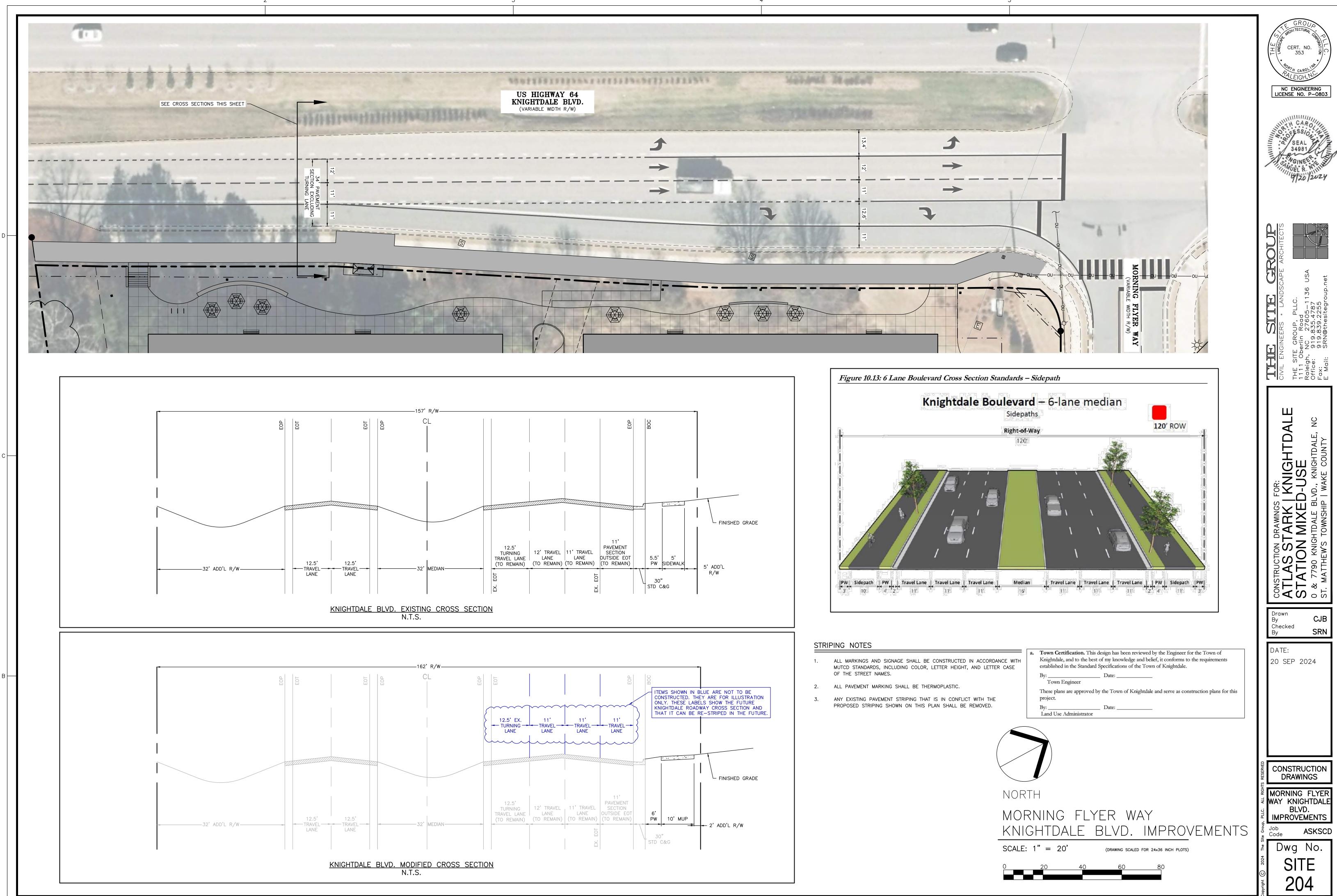
SIGNAGE & PVM'T PLAN

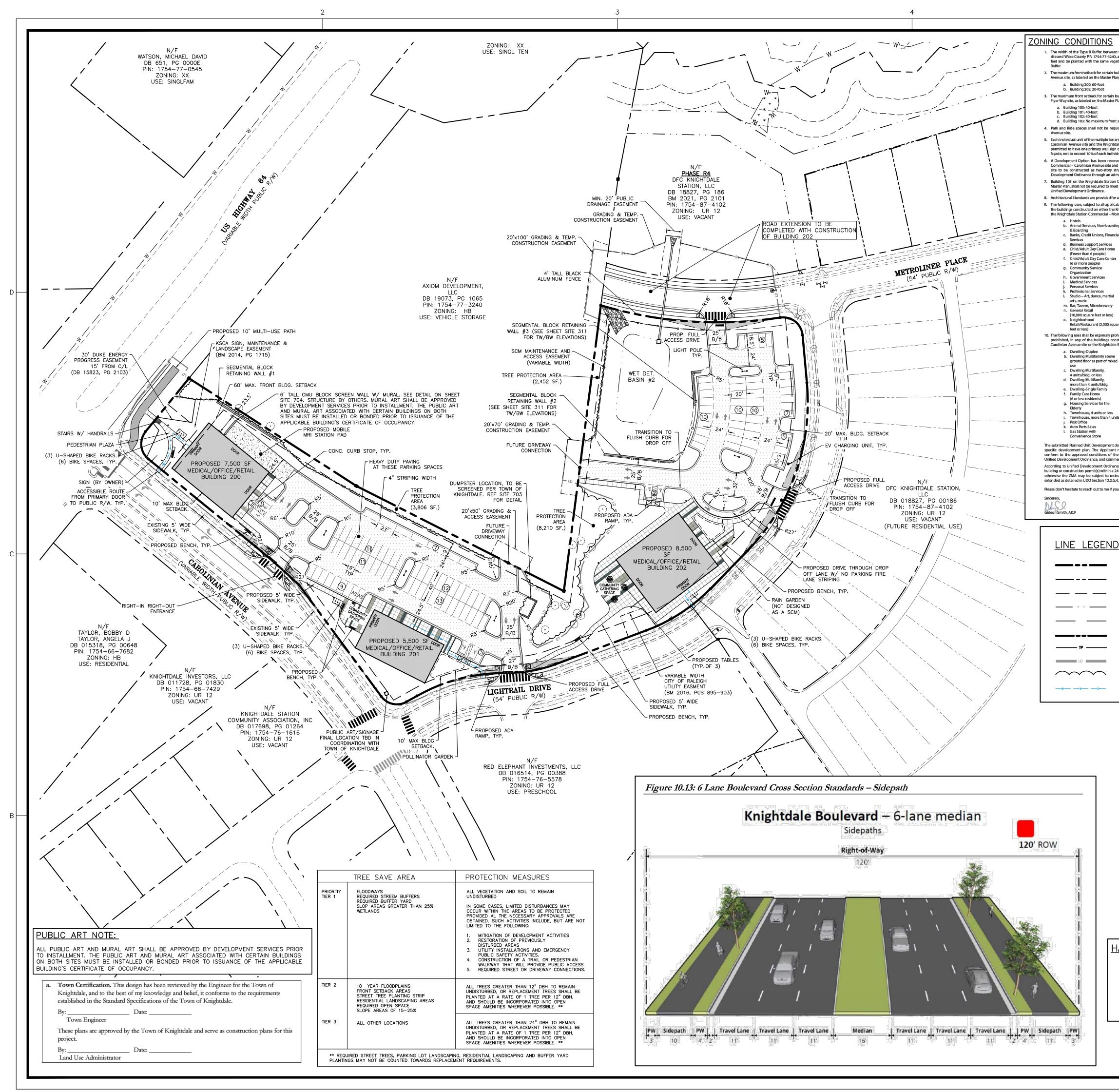
NORTH

SCALE: 1" = XX'

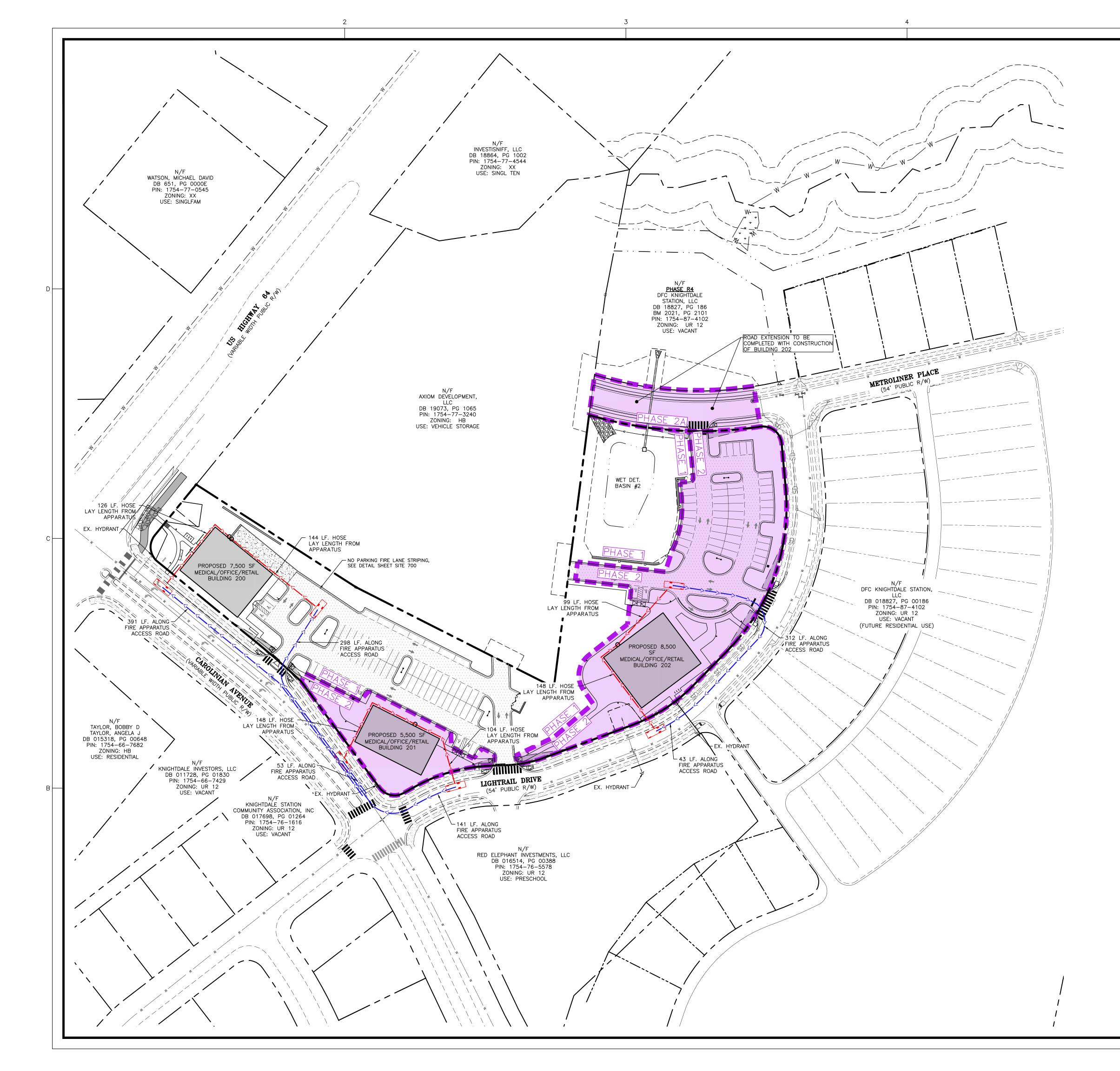
9/20/2024 136 - GRUUP, PLLU. Derlin Road NC 27605-11 919.835.4787 919.839.2255 SRN@thesitegro Ӗ҄҄⊢ҝ҄ѻҝ҇ш Ш NC 4 XED-USE ΣЪ CONSTRUCTION DR ATLAS ST/ STATION N 0 & 7790 KNIGHT Drawn MRK Checked SRN DATE: 12 JAN 2024 REVISED: 121 FEB 2024 12 APR 2024 309 MAY 2024 414 JUN 2024 502 AUG 2024 <u>∕6</u>20 SEP 2024 CONSTRUCTION DRAWINGS MORNING FLYER WAY SIGNAGE & PAVEMENT MARKING PLAN Job Code ASKSCD Dwg No. SITE 202







| | | | - |
|--|---|--|--|
| N | | | F GROUD |
| 2 | SITE DATA SUMMARY | | TE GINOUD MRCHITECTURAL |
| een the Knightdale Station Commercial – Carolinian Avenue ⁄40, as labeled on the Master Plan, shall be a minimum of 18.5- | PROJECT NAME: | KNIGHTDALE STATION – CAROLINIAN AVE | St HELL Y SE D |
| egetative materials required by the standard 20-foot Type B | PROPERTY OWNER: | KNIGHTDALE COMMERCIAL, LLC | C & CERT. NO. 10 HUNY CERT. NO. 10 C |
| n buildings on the Knightdale Station Commercial – Carolinian Plan, shall be as follows: | PIN(S): | 1754764820 | T T T T T T T T T T |
| Man, shall be as follows: | | | |
| in buildings on the Knightdale Station Commercial – Morning | SITE ADDRESS: | 7790 KNIGHTDALE BLVD | NORTH CAROLINA |
| er Plan, shall be as follows: | JURISDICTION: | KNIGHTDALE | PALEIGH, N.C. |
| | ZONING: | NMX-PUD | |
| ont setback | OVERLAY DISTRICT: | N/A | NC ENGINEERING LICENSE NO. P-0803 |
| equired on the Knightdale Station Commercial – Carolinian | WATERSHED: | MARKS CREEK | LICENSE NO. F-0805 |
| enant buildings on both the Knightdale Station Commercial – | RIVER BASIN: | NEUSE | |
| ntdale Station Commercial – Morning Flyer Way site shall be ign on the front façade and one primary wall sign on the rear | TOTAL PROJECT AREA: | 4.39 AC. | |
| lividual unit's façade. served to allow all buildings on both the Knightdale Station | CURRENT USE: | VACANT | WITH CARO |
| and the Knightdale Station Commercial – Moming Flyer Way structures in accordance with Section 3.4 of the Unified | | MEDICAL, OFFICE, PROFESSIONAL SERVICES, | NOP CESSIONAL |
| administrative process if desired at a later date. | PROPOSED USE: | GENERAL RETAIL, AND NEIGHBORHOOD | N. TA |
| ion Commercial – Morning Flyer Way site, as labeled on the neet Transparency requirements outlined in Section 6.8 of the | | RETAIL/RESTAURANT (UDO 6.8) (SEE APPROVED ZONING CONDITIONS 9 & 10) | SEAL SEAL 34981 |
| for all buildings as indicated in the PUD document. | | MIXED-USE CENTER & MIXED DENSITY | = Agrin and |
| iicable additional use standards, shall be permitted in any of | PLACE TYPE: | NEIGHBORHOOD | S. NGINEE |
| ne Knightdale Station Commercial – Carolinian Avenue site or Morning Flyer Way site: | PROPOSED BUILDING TYPE: | MIXED USE BUILDING | MUEL R. WILLING |
| p. Restaurant rding q. Tasting Room | | BUILDING 200: 7,500 SF. | 4120 2024 |
| r. Indoor Amusements Incial (5,000 - 10,000 square feet) | NEW BUILDING AREA: | BUILDING 201:5,500 SF. BUILDING 202: 8,500 SF. | 111 |
| s. Indoor Amusements (10,001 - 20,000 square feet; | | TOTAL BUILDING AREA: 21,5000 SF. | |
| ne Special Use Permit required) t. Cultural or Community Facility | BUILDING HEIGHT REQ. (MAX.): | 56', 4 STORIES (UDO 3.4) | |
| ter u. Movie Theater v. Indoor Recreation Facility | | BUILDING $200 = 28'-0''$ | |
| w. Live Performance Theater x. Neighborhood Manufacturing | PROVIDED BUILDING HEIGHT: | BUILDING $201 = 23'-4"$ BUILDING $202 = 22'-0"$ | |
| y. Wireless Telecommunication Facility – Small Wireless | EXISTING IMPERVIOUS AREA ONSITE: | 0 SF. | |
| Facilities outside Right-of-Way z. Accessory Building/Structure | PROPOSED IMPERVIOUS AREA ONSITE: | 101,543 SF. | |
| al aa. Solar Energy Collection – Roof/Building Mounted | PROPOSED IMPERVIOUS AREA IN R/W: | 2,913 SF. | |
| y bb. Mobile MRI Unit (subject to the additional use | PARKING REQ.: | 59 SPACES (MIN.) – 118 SPACES (MAX.) | |
| s) standard outlined in the PUD Document) | | | |
| quare | PARKING PROVIDED: | 118 SPACES | |
| prohibited, and all other uses not expressly permitted shall be constructed on either the Knightdale Station Commercial – | ADA PARKING REQUIRED: | 5 SPACES | |
| ale Station Commercial – Morning Flyer Way site: | ADA PARKING PROVIDED: | 6 SPACES | DISCAF |
| m. Medical Cannabis Centers ve n. Nightclub | EV CHARGING STATIONS REQ: | 3 CHARGING STATIONS (1/40 MOTOR VEH.) | 0/ U d |
| ixed o. Vape, Tobacco, and CBD Store p. Sweepstakes Centers | EV CHARGING STATIONS PROVIDED: | 4 CHARGING STATIONS | |
| q. Cemeteries r. Wireless Telecommunication | BICYCLE PARKING REQ. (MIN.): | 12 SPACES (1/10 MOTOR VEH.) | |
| Facility – Stealth 5. Wireless Telecommunication | BICYCLE PARKING PROVIDED: | 18 SPACES | |
| Facility – Small Wireless Facilities inside Right-of-Way | | PLEASE SEE ZONING CONDITIONS #2 & #3 | 35.46 760 7503 7504 |
| t. Utilities – Class 1 & 2 u. Cluster Mailbox Unit | BUILDING SETBACKS: | FOR BUILDING SETBACK REQUIREMENTS | 00PP, ERS 835 @the @the |
| v. Standalone ATM s w. Drive-Thru Service | SETBACKS: | | |
| units x. Drive-Thru Retail/Restaurants y. Home Occupation | FRONT: | 60' MAX | L-10 - 2000 NO 0-2000 NO 0-200 NO 002 NO 002 NO 002 NO 002 |
| z. Solar Energy Collection, Ground Mounted | SIDE: | 10' MIN | ош ў ша |
| | REAR: | O' MIN | |
| nt document and submitted Master Plan will serve as the site- ant must submit Construction Drawings to the Town that | CORNER: | N/A | |
| the NMX-PUD zoning district, Master Plan comments, the news, the news, the superstanding the second se | PARKING SETBACKS: | | E Mc MC MC MC MC MC MC MC MC MC MC MC MC MC |
| nance Section 12.2.G.3.f.iii, the Applicant must secure a valid a 24-month period from date of approval (October 18, 2025), | FRONT YARD: | N/A | |
| ecission by Town Council. The vested rights period may be | | | |
| LG.4. Tyou have any questions. | SIDE YARD: | 0' | |
| you have any questions | REAR YARD: | 5' | |
| | TREE SAVE AREA REQUIRED: | 10% – 0.44 AC. | |
| | TREE SAVE AREA PROVIDED: | 7.6% – 0.33 AC. | |
| | TREE REPLACEMENT AREA REQUIRED: | 5,793 SF./0.13 AC. | |
| | TREE REPLACEMENT AREA PROVIDED: | 18,224 SF./0.41 AC. | |
| Π | ADDITIONAL TREE SAVE & TREE REPLACEM | ENT AREA PROVIDED ON NORTH SITE (200) | |
| | TREE PROTECTION FENCING: | 2,705 LF. | |
| PROPERTY BOUNDARY LINE | PUBLIC GATHERING SPACE REQ: | 500 SF | |
| PROPERTI BOUNDART LINE | PUBLIC GATHER SPACE PROVIDED: | 4,301 SF | |
| ADJACENT LOT LINE | | (UDO 8.5) | |
| SETBACK LINE | PERMITTED MONUMENT SIGN TYPES : | · · · · | |
| SETBACK LINE | NEIGHBORHOOD/CAMPUS GATEWAYS | 16 SF MAX AREA — 7' MAX HEIGHT — 2 PER ENTRANCE | |
| EXISTING EASEMENTS | LOTS LESS THAN 2 AC. | 25 SF MAX AREA – 4' MAX HEIGHT – 2** | |
| PROPOSED SETBACK | LOTS EQ. TO OR GREATER THAN 2 AC. | 50 SF MAX AREA – 7' MAX HEIGHT – 2** | |
| | PERMITTED BUILDING WALL TYPES: | | |
| PROPOSED ROW LINE | FRONT FACADES | SEE APPROVED ZONING CONDITION #5 | |
| TREE PROTECTION FENCE LINE | ALL OTHER FACADES | SEE APPROVED ZONING CONDITION #5 | |
| | | SEE AFRICED ZONING CONDITION #3 | |
| LIMITS OF DISTURBANCE LINE | PUBLIC IMPROVEMENT QUANTITIES: | 0.15 | CTION O KNIG HEW'S |
| PROPOSED TREELINE | LINEAR FT/WIDTH OF STREETS: | 0 LF. | |
| | LINEAR FT/WIDTH OF PUBLIC GREENWAY TRAILS: | 121 LF. 10' WIDTH | |
| ADA ROUTE | LINEAR FEET OF PUBLIC SIDEWALKS: | 750 LF. | |
| | LINEAR FEET OF PUBLIC CURB & GUTTER: | 3,057 LF. | ທ .> ≥ |
| | LINEAR FEET OF STORM DRAINAGE: | 1,334 LF. | |
| | | ., | |
| GENERAL NOTES | | | |
| 4 411 477 | ID METHODS OF CONSTRUCTION SHALL BE IN A | | Drawn |
| | DALE, AND THE STATE OF NORTH CAROLINA STA | | By MRK Checked |
| | | | By SRN |
| 2. CONTRACTOR SHA | LL HAVE NORTH CAROLINA ONE CALL (811) LO | CATE ALL EXISTING UTILITIES PRIOR TO | |
| BEGINNING CONST | RUCTION. | | |
| 3. CONTRACTOR SHA | LL VERIFY THE LOCATION AND DEPTH OF ALL E | XISTING LITHLITIES AND NOTIEY THE | DATE: |
| | DISCREPANCIES OR CONFLICTS PRIOR TO BEGI | | 12 JAN 2024 |
| | | | REVISED: |
| | SURVEY INFORMATION IS TAKEN FROM A DIGITAL | SURVEY BY NEWCOMB LAND SURVEYOR | 121 FEB 2024 |
| DATED OCTOBER 2 | 27TH 2022. | | |
| 5. ALL CONSTRUCTIO | N SHALL CONFORM TO A.D.A. STANDARDS. | | 212 APR 2024 |
| | | | 309 MAY 2024 |
| | | | |
| | | | 4 14 JUN 2024 |
| | | | |
| | | | <u>/5</u> 02 AUG 2024 |
| | | | 6 20 SEP 2024 |
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| | | | |
| | | | S |
| <u>HATCH_LEGEND</u> | NORTH | | CAROLINIAN AVE. |
| | | | ₹ SITE LAYOUT |
| MULTI USE PATH | | | |
| HD ASPHALT | I CAROLINIAN A | VE. | |
| | | | |
| SIDEWALK JOINT | I SITE LAYOUT | PLAN | Job Code ASKSCD |
| EXISTING S/W | | | site |
| ······································ | | | 🖞 Dwg No. |
| | \Box SCALE: 1" = 60' | (DRAWING SCALED FOR 24x36 INCH PLOTS) | |
| | \Box SCALE: $I = 60$ | (DRAWING SCALED FOR 24x36 INCH PLOTS) | 4 |
| | | | 4 |
| | | (drawing scaled for 24x36 inch plots) | _ |



GENERAL NOTES

- 1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH, TOWN OF KNIGHTDALE, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
- 2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- 3. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
- 4. BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A DIGITAL SURVEY BY NEWCOMB LAND SURVEYOR DATED OCTOBER 27TH 2022.
- 5. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

FIRE ACCESS NOTES

- 1. A FIRE HYDRANT MUST BE WITHIN 400' OF ALL PORTIONS OF THE EXTERIOR OF THE BUILDING FOR NON-SPRINKLERED BUILDINGS, AND 600' FOR SPRINKLERED (NCFC 507.5.1).
- 2. ALL PORTIONS OF THE BUILDINGS MUST BE WITHIN 150' OF THE APPARATUS ACCESS ROAD SURFACE (503.1.1 NCFC), 200' WITH A 13R SPRINKLER SYSTEM, AND 250' FOR 13 SYSTEM.

WE ARE SHOWING THE HOSE LAYING LENGTHS FROM FIRE APPARATUS AND DISTANCES ALONG FIRE ACCESS ROADS ON THIS SHEET.

 a. 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.

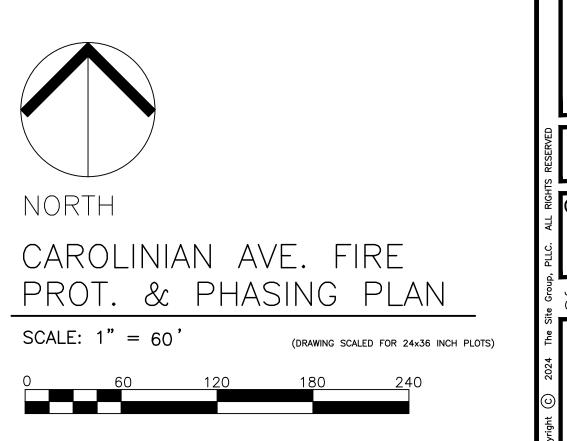
 By:
 ________ Date:

 Town Engineer

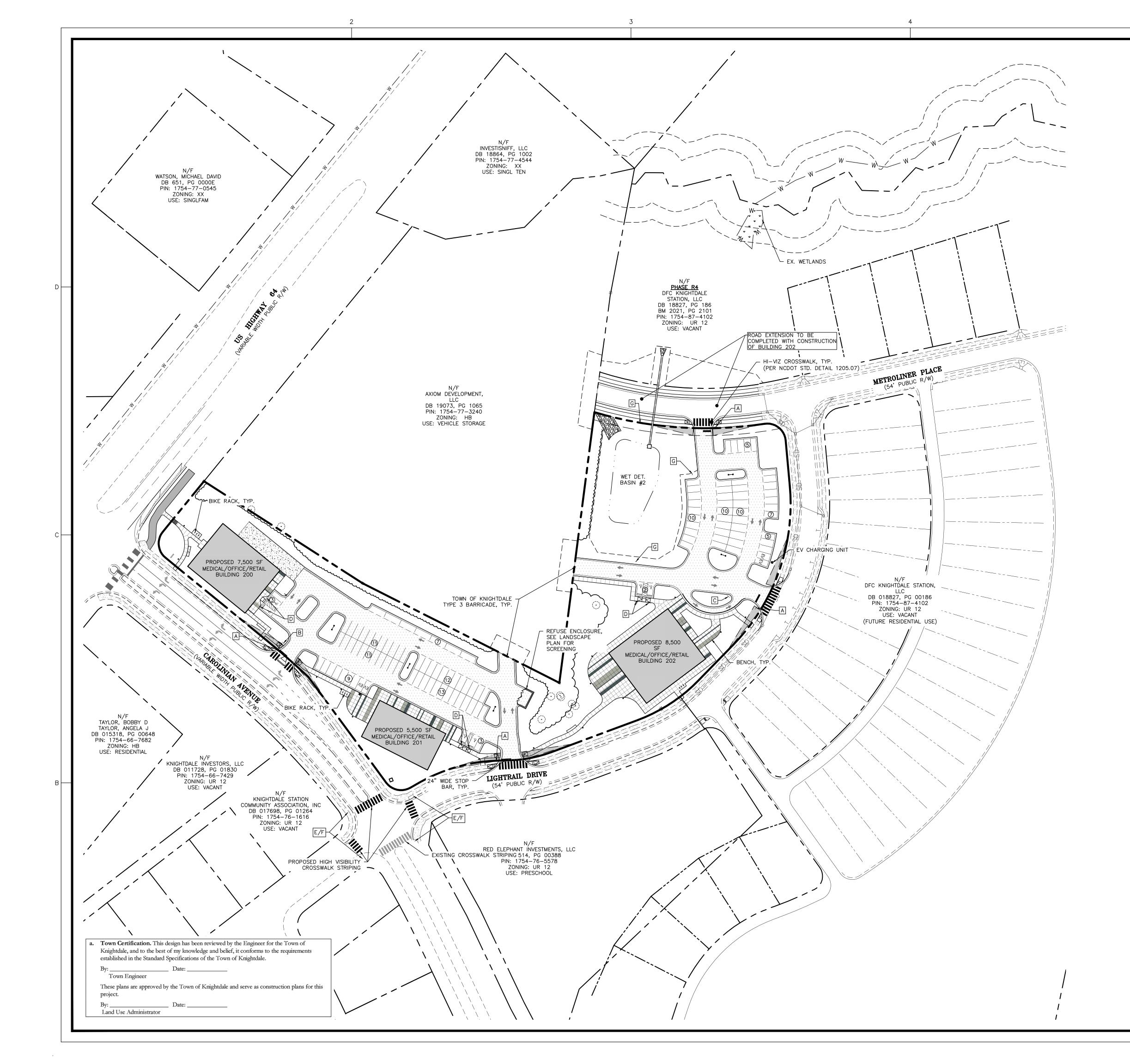
 These plans are approved by the Town of Knightdale and serve as construction plans for this project.

 By:

 Land Use Administrator



| | CERT. NO. Son CERT. NO. CERT. N | 1 |
|--|--|---|
| | THE SITE GROUP, PLLC. THE SITE GROUP, PLLC. 1111 Oberlin Road Raleigh, NC 27605–1136 USA Office: 919.835.4787 Fax: 919.835.4787 Fax: 919.835.2555 E Mail: SRN@thesitegroup.net | |
| | CONSTRUCTION DRAWINGS FOR: ATLAS STARK KNIGHTDALE STATION MIXED-USE 0 & 7790 KNIGHTDALE BLVD., KNIGHTDALE, NC ST. MATTHEW'S TOWNSHIP WAKE COUNTY | |
| | By MRK Checked By SRN DATE: 12 JAN 2024 REVISED: 12 1 FEB 2024 2 12 APR 2024 2 12 APR 2024 3 09 MAY 2024 4 14 JUN 2024 6 20 SEP 2024 | |
| pyright C 2024 The Site Group, PLLC. ALL RIGHTS RESERVED | CONSTRUCTION DRAWINGS CAROLINIAN AVE. FIRE PROTECTION & PHASING PLAN Job Code ASKSCD Dwg No. SITE 211 | |



GENERAL NOTES

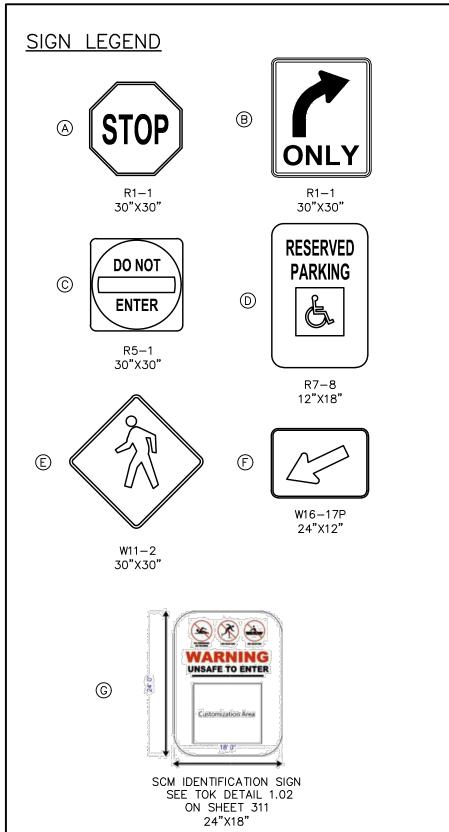
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- 5. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

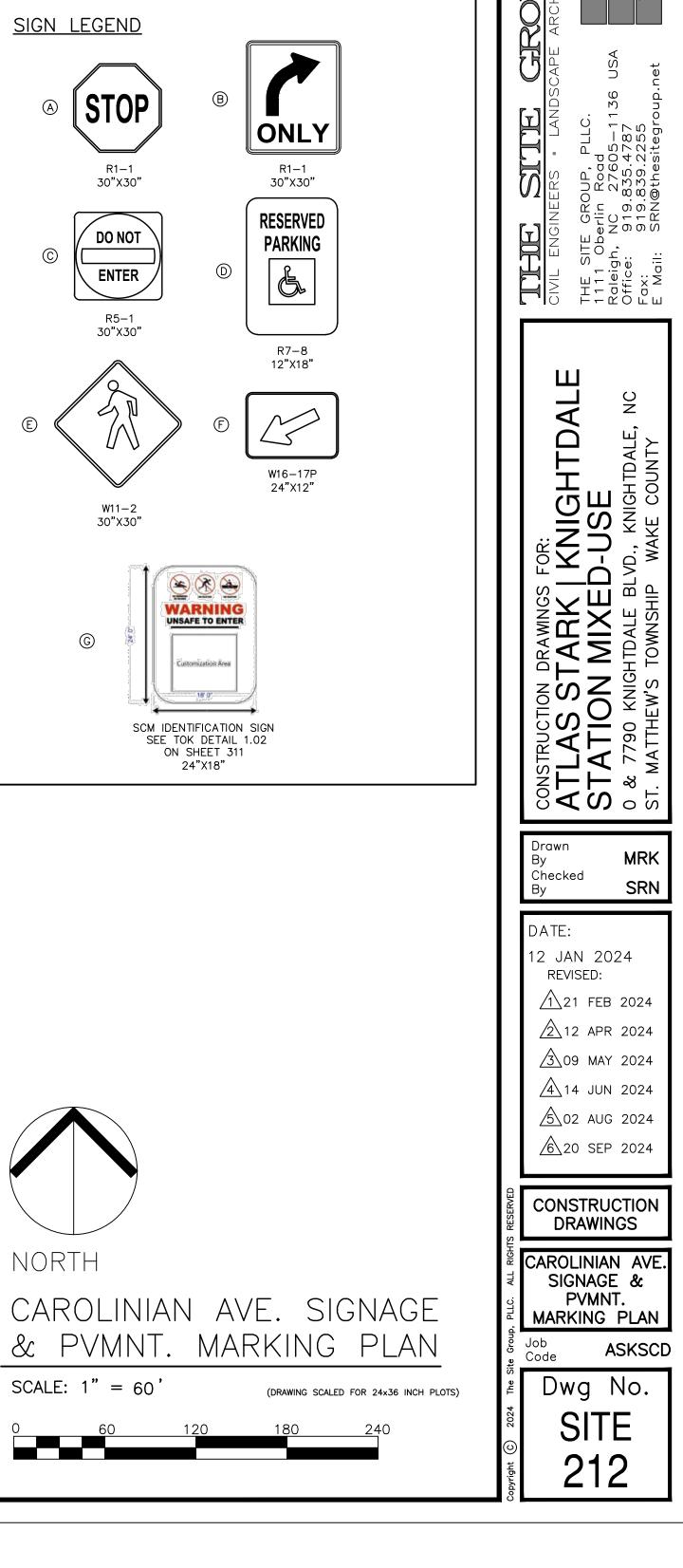
STRIPING NOTES

NORTH

SCALE: 1" = 60'

- ALL MARKINGS AND SIGNAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH 1. MUTCD STANDARDS, INCLUDING COLOR, LETTER HEIGHT, AND LETTER CASE OF THE STREET NAMES.
- 2. ALL PAVEMENT MARKING SHALL BE THERMOPLASTIC.
- ANY EXISTING PAVEMENT STRIPING THAT IS IN CONFLICT WITH THE 3. PROPOSED STRIPING SHOWN ON THIS PLAN SHALL BE REMOVED.



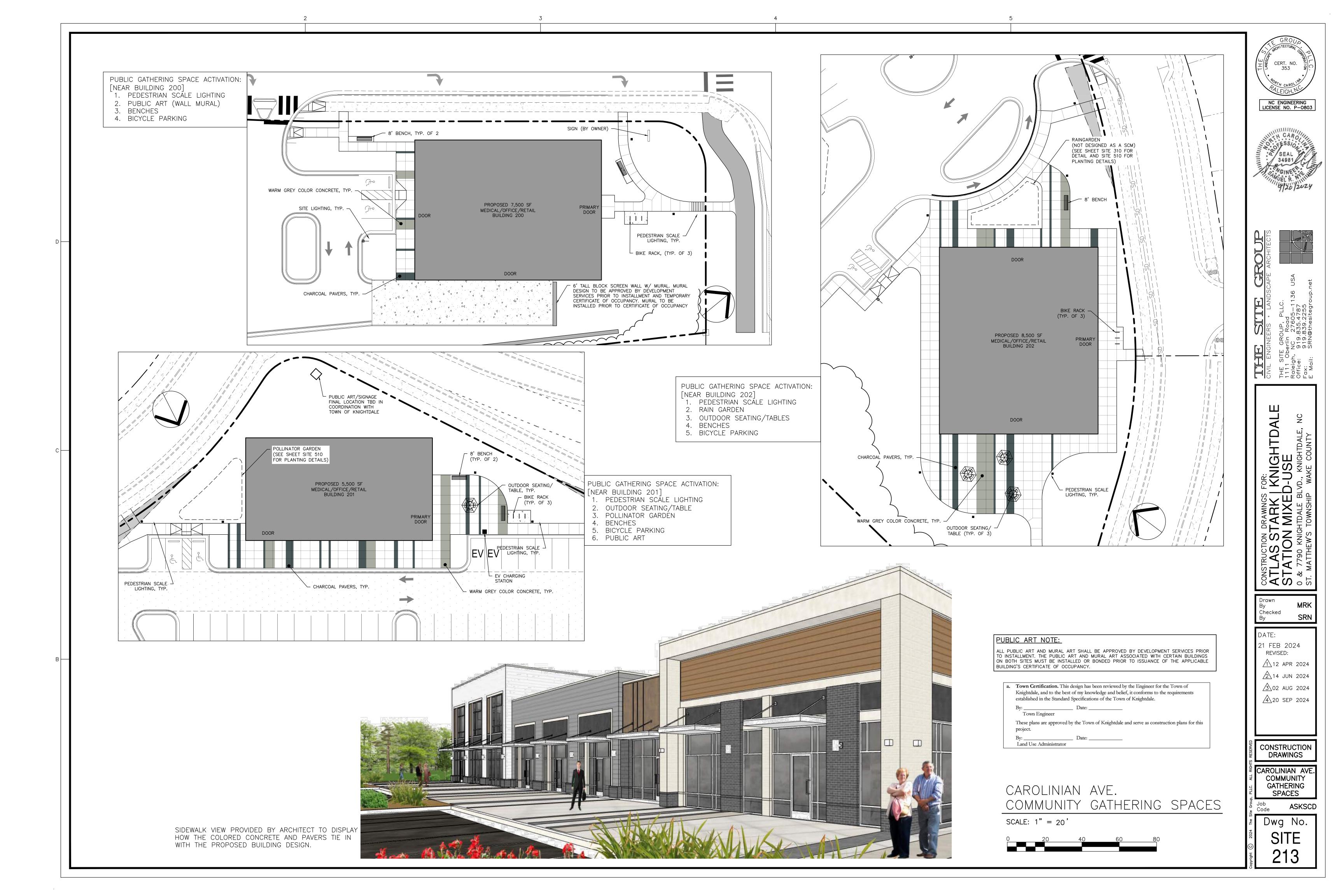


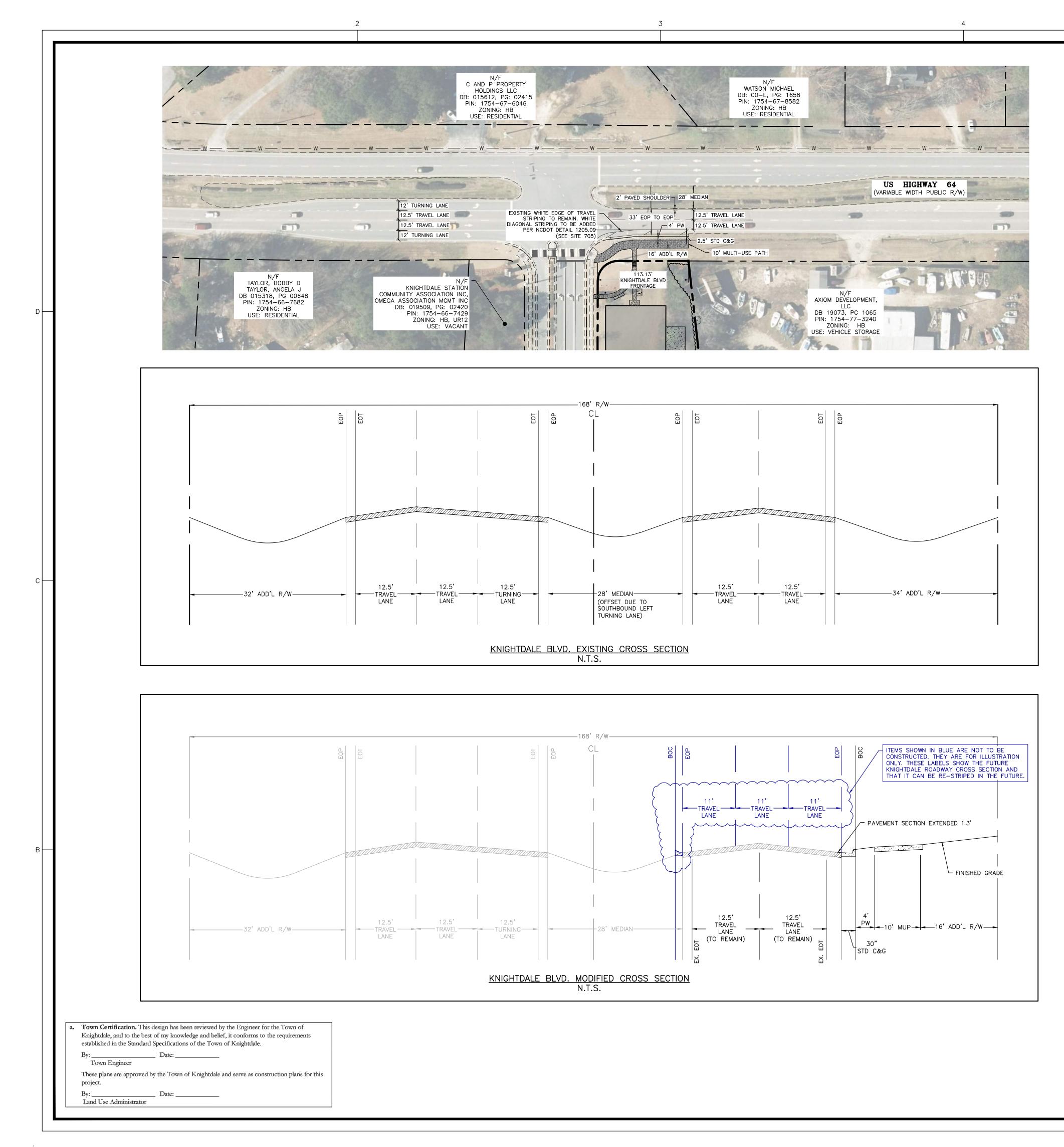
CERT. NO.

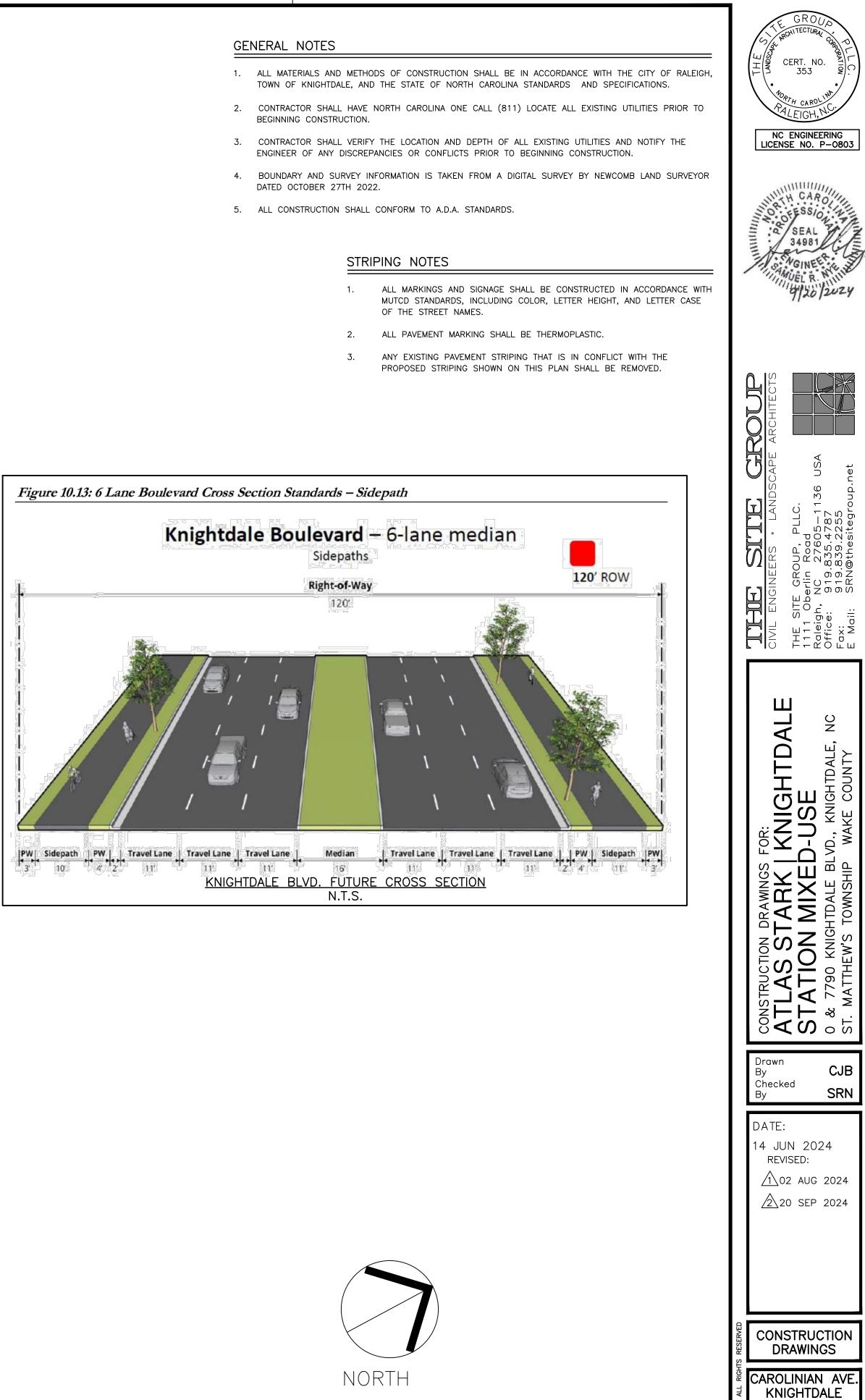
353

NC ENGINEERING LICENSE NO. P-0803

9/20/2024







CAROLINIAN AVE. KNIGHTDALE

(DRAWING SCALED FOR 24x36 INCH PLOTS)

BLVD. IMPROVEMENTS

SCALE: 1" = 60'

BLVD.

IMPROVEMENTS

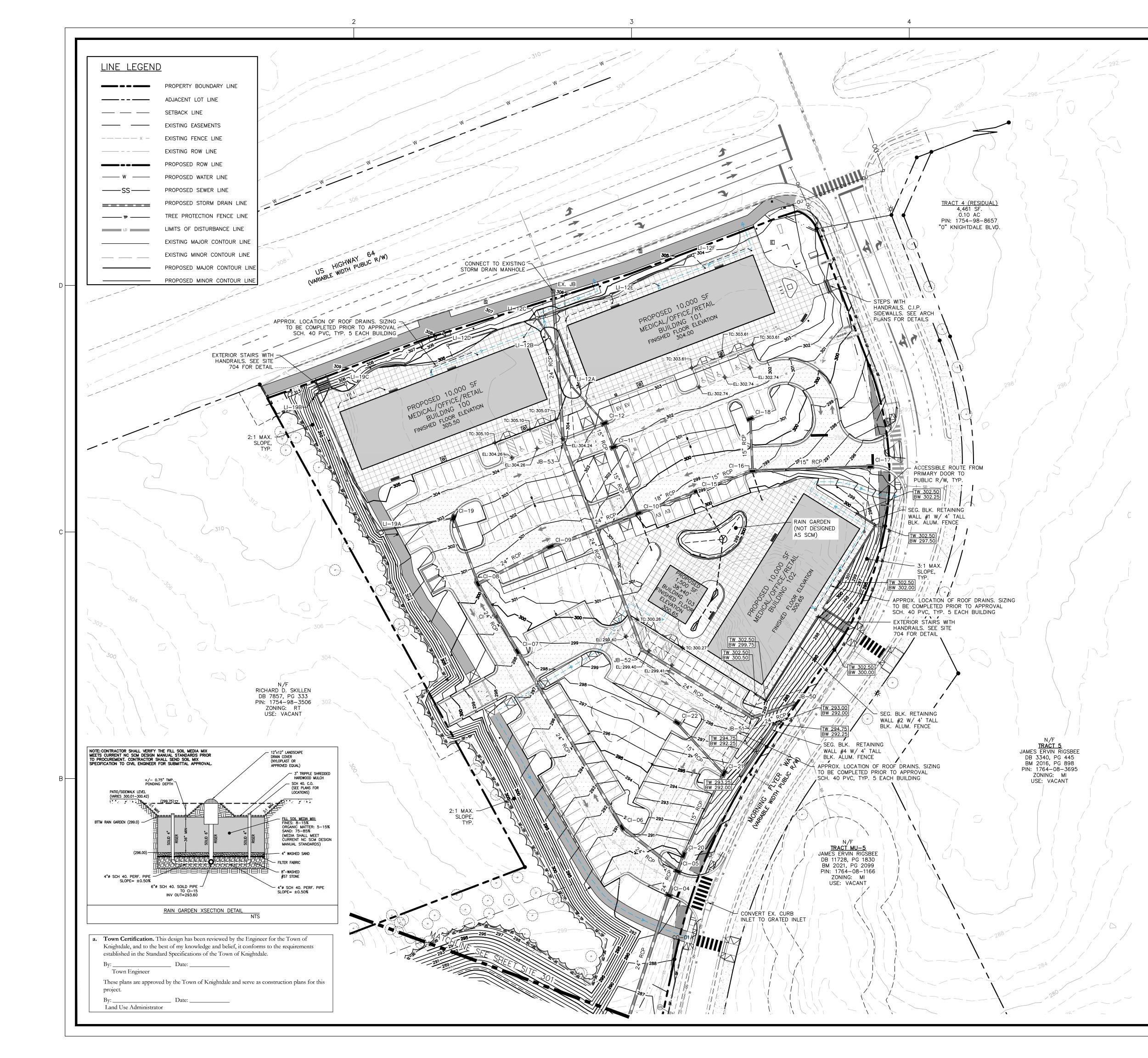
Dwg No.

SITE

214

ASKSCD

Job Code



GENERAL NOTES

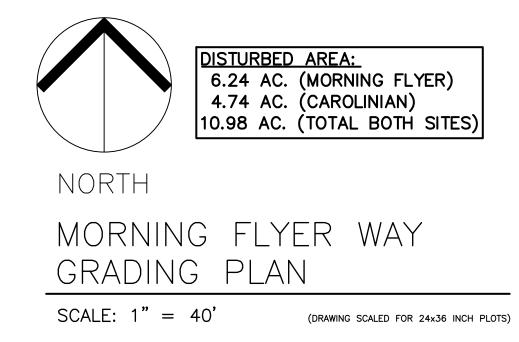
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- 4. BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A DIGITAL SURVEY BY NEWCOMB LAND SURVEYOR DATED OCTOBER 27TH 2022.
- 5. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.
- 6. NO GRADING, DEVELOPMENT, OR LAND-DISTURBING ACTIVITIES SHALL OCCUR WITHIN A BUFFER YARD IF FOREST CANOPY, SPECIMEN TREES, OR SIGNIFICANT VEGETATION EXISTS WITHIN THESE AREAS, UNLESS APPROVED BY THE LAND USE ADMINISTRATOR. IF GRADING WITHIN A BUFFER YARD IS PROPOSED, SLOPES OF 1:3 OR LESS ARE ENCOURAGED TO ENSURE THE PROPER TRANSITION OF GRADES TO THE ADJACENT PROPERTY AND TO FACILITATE LANDSCAPING AND MAINTENANCE.

SURVEY LEGEND

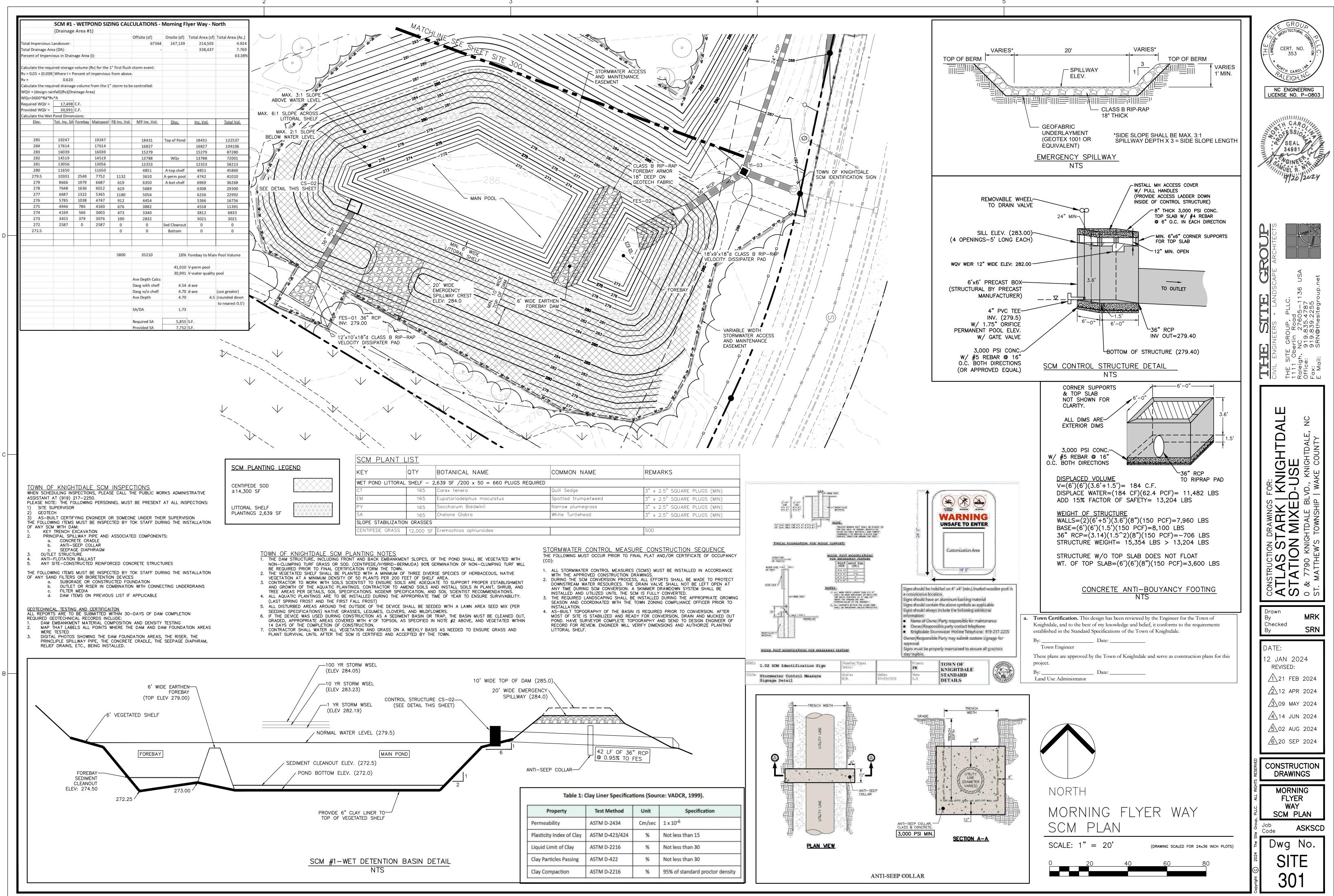
| <u>SYMB</u> | OLS | <u>LINETYPES</u> | |
|-------------|---------------------------|------------------|--|
| • | Ex. iron pipe/rod or nail | <u> </u> | - Fence |
| | Ex. concrete monument | OU | - Overhead utility |
| \bullet | New iron pipe | —— W —— | - Water |
| ullet | Calculated point | SS | - Sanitary sewer |
| С | Cable pedestal | SD | - Storm drain |
| Т | Telephone pedestal | | |
| E | Electric pedestal | ABBREVIATIO | NS |
| F | Fiber—optic marker | DB | Deed Book |
| S | Traffic signal box | PB or BM | Plat Book / Book of Maps |
| 0 | Water meter | N/F | Now or formerly |
| V | Fire hydrant | Pg. | Page |
| \bowtie | Valve (water or gas) | SF | Square feet |
| S | Sanitary sewer manhole | Ac. | Acres |
| | Sanitary sewer cleanout | R/W | Right—of—way |
| - | Storm curb inlet | NCSR | North Carolina State Route |
| · | Drainage inlet (w/ grate) | NCDOT | North Carolina Dept. of Transportatior |
| \bigcirc | Storm drain manhole | R/W | Right—of—way |
| \tilde{O} | Utility pole | Ex. | Existing |
| -¥- | Lamp post | RCP | Reinforced concrete pipe |
| - | Signal pole | PVC | Polyvinyl chloride pipe |
| | Guy wire | (M) | Measured |
| Ŷ | - | AG | Above ground |
| <u> </u> | Sign post | BG | Below ground |

GRADING NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING, AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED AT LEAST 48 HOURS PRIOR TO BEGINNING DEMOLITION, EXCAVATION, OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS.
- 2. EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL PERMITS, INSPECTIONS, CERTIFICATIONS, AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT ARE OBTAINED.
- 4. IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREFOR SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.
- 5. THE ENGINEER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
- 6. THE STREETS IN FRONT OF THE PROJECT WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.
- 7. ALL SLOPES EQUAL TO 2:1 SHALL BE STABILIZED WITH PERMANENT SLOPE RETENTION OR A SUITABLE COMBINATION OF PLANTINGS AND RETENTION DEVICES.
- 8. SLOPES STEEPER THAN 3:1 BUT LESS THAN 2:1 SHALL BE STABILIZED WITH PERMANENT GROUNDCOVER, NOT WITH TURF GRASS.

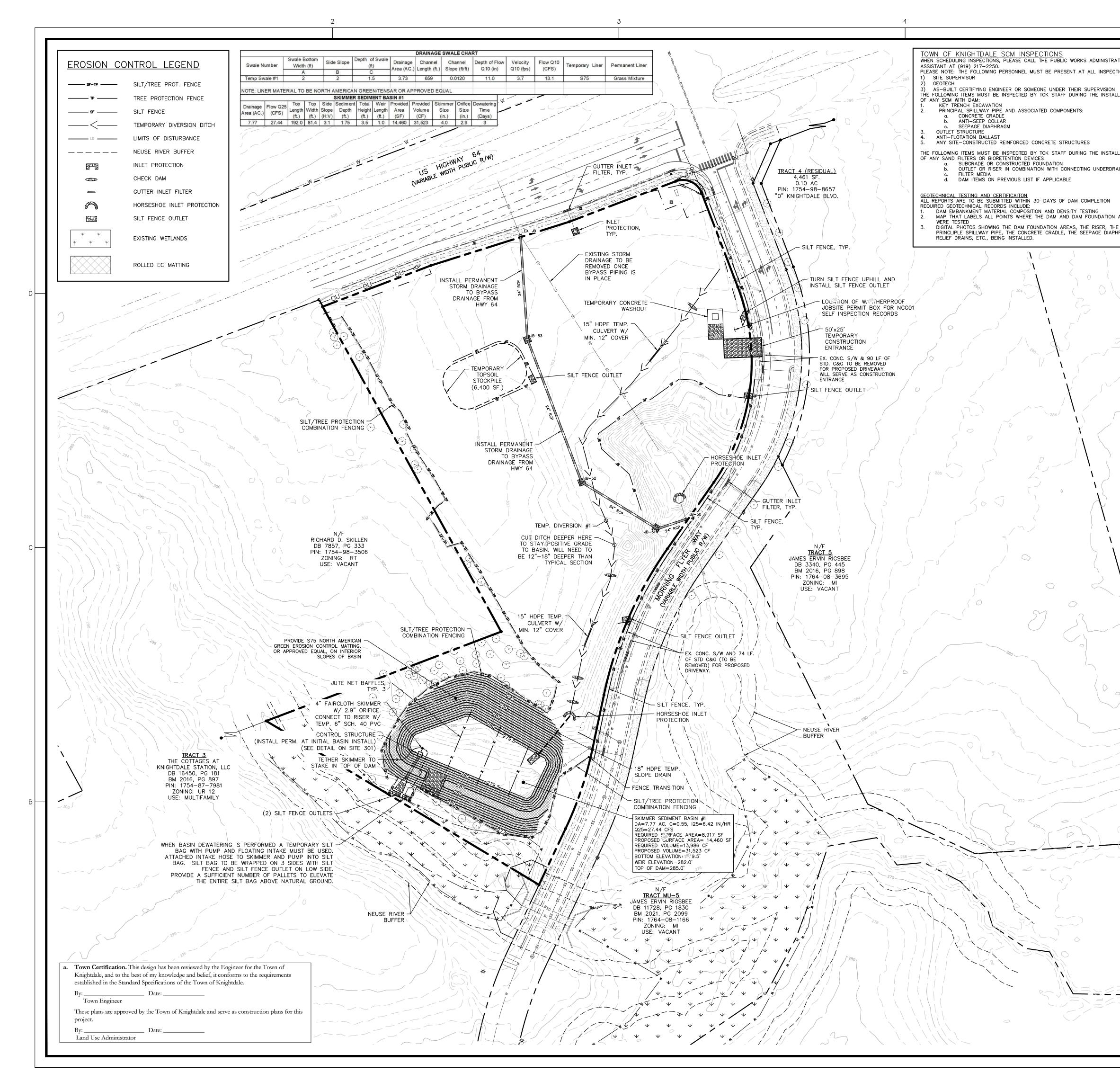


CERT. NO 353 NC ENGINEERING LICENSE NO. P-0803 1/20/2024 Γ N L თთ Ш \cap СП = 0) \cap **DRAWINGS MIXEI** HTDALE BL SST SST ION I CONSTRUC ATLAS STATI 0 & 7790 ST MATTR Drawn MRK Checked SRN DATE: 12 JAN 2024 REVISED: 121 FEB 2024 212 APR 2024 <u>/3</u>09 MAY 2024 <u>/4</u>14 JUN 2024 502 AUG 2024 <u>6</u>20 SEP 2024 CONSTRUCTION DRAWINGS MORNING FLYER WAY GRADING PLAN Job ASKSCD Code Dwg No. SITE 300

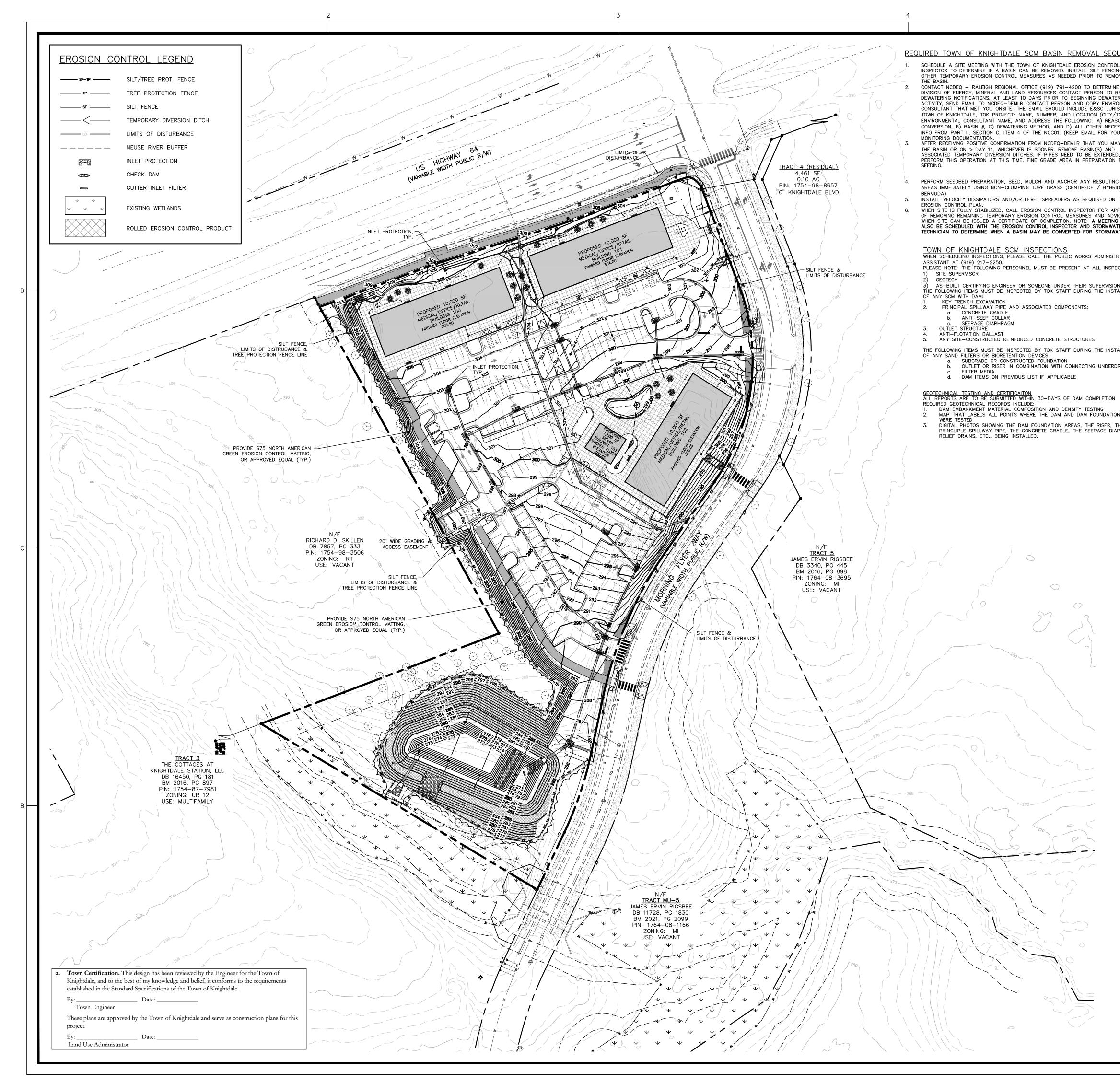


| | BOTANICAL NAME | COMMON NAME | REMARKS | |
|-----|---|---------------------|------------------------------|---|
| - 2 | $2,639 \text{ SF } /200 \times 50 = 660 \text{ PLUGS REQUIRED}$ | | | |
| | Carex tenera | Quill Sedge | 3" x 2.5" SQUARE PLUGS (MIN) | 14-1 sooo rest |
| | Eupatoriadelphus maculatus | Spotted trumpetweed | 3" x 2.5" SQUARE PLUGS (MIN) | |
| | Saccharum Baldwinii | Narrow plumegrass | 3" x 2.5" SQUARE PLUGS (MIN) | |
| | Chelone Glabra | White Turtlehead | 3" x 2.5" SQUARE PLUGS (MIN) | |
| ES | • | • | | Tet DIAL MOLE FOR 4% AT LEVEN |
| SF | Eremochloa ophiuroides | | SOD | TRY DIAL HOLE FOR 4's |
| | · | | · | SUMPACE CONSTIT |

| | | | 1 | 5042J |
|--------|---|-----------------|---------------------|------------|
| | ^{Nitle} Stormwater Control Measure Signage Detail | Scale: 1973- | Oate: 37-03-7920 | 3em 1-5 |
| | | - 4 | | * |
| 6" PCD | | | | |



| TIVE | CONSTRUCTION SEQUENCE | STE GROUP |
|---------------|--|---|
| TIONS: | REQUEST PRECONSTRUCTION MEETING. INSTALL TREE PROTECTION FENCING AND CONTACT THE TOWN OF KNIGHTDALE INSPECTOR FOR APPROVAL. | HUNG CERT. NO. TIC HUNG CERT. NO. TIC HUNG CERT. NO. TIC C. |
| LATION | OBTAIN GRADING PERMIT. CLEAR ONLY WHAT IS NECESSARY FOR INSTALLATION OF EROSION CONTROL MEASURES. | MOPTH CAROLINE |
| | IN ORDER, INSTALL PERIMETER SILT AND TREE FENCING. INSTALL INLET PROTECTION ON EXISTING INLETS. INSTALL BASIN, DIVERSION DITCHES, CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. INSTALL CLEAN WATER DIVERSION PIPING AND STRUCTURES AS SHOWN ON INITIAL EROSION CONTROL PLAN. INSTALL JB 53, JB 52, JB 51, JB 50, AND RCP STORM PIPES TO DIVERT OFFSITE STORMWATER THRU SITE. INSTALL PIPING DURING A PERIOD OF DRY | NC ENGINEERING LICENSE NO. P-0803 |
| LATION | WEATHER. PROTECT TRENCH BY STOCKPILING EXCAVATION MATERIAL ON UPHILL SIDE OF TRENCH. AT THE END OF EACH DAY UTILIZE STANDARD DETAIL ON SHEET SITE 708 FOR STANDARD PIPE INLET PROTECTION (PLYWOOD AND STONE). TRENCH CROSSING OF TEMPORARY DIVERSION DITCH TO BE PLANNED FOR A PERIOD OF DRY WEATHER. BACKFILL AREA OF TRENCH AT CROSSING AND REESTABLISH DITCH PRIOR TO CONCLUDING DAYS WORK. [BLOCK INLETS/TOPS FOR CLEAN WATER DIVERSION SO SEDIMENT-LADEN | |
| AINS | RUNOFF DOES NOT BYPASS THE SEDIMENT SKIMMER BASIN] 5. INSTALL ALL REMAINING EROSION CONTROL MEASURES AS SHOWN ON THE INITIAL EROSION CONTROL PLAN, SITE 302. | THE CARO |
| | 6. OBTAIN CERTIFICATE OF COMPLIANCE THROUGH ON-SITE INSPECTION BY EROSION CONTROL OFFICER. 7. BEGIN CONSTRUCTION AS SHOWN ON PLANS. PROCEED WITH ROUGH GRADING. | SEAL 34981 |
| AREAS | 8. COMPACT NEW BACKFILL MATERIAL PER SPECIFICATIONS. 9. CLEAN SEDIMENT BASIN WHEN ONE-HALF FULL. | SA NGINEER WITH |
| E HRAM, | SEED AND MULCH DENUDED AREA WITHIN 15 DAYS AFTER ANY PHASE OF GRADING AND/OR AS SPECIFIED ON THE NPDES GROUND STABILIZATION CHART, WHICHEVER IS MORE RESTRICTIVE. BRING SITE UP TO FINISHED GRADE AND INSTALL RETAINING WALLS. ADJUST DIVERSION DITCHES AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE. | 9/20/2024 |
| | 12. INSTALL INLET PROTECTION AROUND ALL NEW CATCH BASINS AS THEY ARE INSTALLED. 13. ONCE CONSTRUCTION IS SUBSTANTIALLY COMPLETE AND THE SITE IS STABILIZED TO THE EXTENT POSSIBLE, | |
| | CONTACT THE TOWN OF KNIGHTDALE FOR INSPECTION. 14. AFTER APPROVAL BY THE TOWN INSPECTOR, REMOVE THE SEDIMENT BASIN AND CONVERT BASIN TO FINAL CONFIGURATION. | |
| | 15. COMPLETE CONSTRUCTION. 16. WHEN CONSTRUCTION IS COMPLETE, REQUEST FINAL APPROVAL BY TOWN INSPECTOR. | |
| | 17. REMOVE REMAINING EROSION CONTROL MEASURES AND STABILIZE THOSE AREAS. | ARCH ARCH |
| | REQUIRED TOWN OF KNIGHTDALE CONSTRUCTION SEQUENCE 1. SCHEDULE AN INITIAL PRE-CONSTRUCTION CONFERENCE WITH THE TOWN OF KNIGHTDALE. OBTAIN A LAND-DISTURBANCE PERMIT. | |
| | INSTALL ALL PERIMETER CONTROLS AS SHOWN ON THE APPROVED PLANS, CLEAR ONLY AS NECCESARY TO INSTALL THESE DEVICES. CLEARING SHOULD BE LIMITED TO A MAXIMUM 35' "RIBBON" AROUND PERIMETER TO INSTALL CONTROLS. NO GRADING OR EXCAVATION SHOULD OCCUR. SCHEDULE AN ONSITE PRE-CONSTRUCTION MEETING WITH THE TOWN OF KNIGHTDALE TO INSPECT THE INSTALLED | LC. LC. LC. Jandscaf LC. LC. LC. LC. LC. LC. LC. LC. LC. LC. |
| ر بر | PERIMETER CONTROLS 4. IF APPROVED, PROCEED WITH INSTALLING GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLANS. CLEAR ONLY AS NECCESARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS, AND BASINS IMMEDIATELY AFTER CONSTRUCTION. | |
| | CALL TOWN OF KNIGHTDALE EROSION CONTROL INSPECTOR TO SCHEDULE AN ONSITE INSPECTION AND OBTAIN A CERTIFICATE OF COMPLIANCE. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL CONTROLS, SEDIMENT TRAPS | INEERS GROUP, rlin Road C 2760 C 2760 19.835.4 119.835.4 119.8339.2 SRN@thes |
| | OR OTHER APPROVED MEASURES AS SHOWN IN THE APPROVED PLAN. BEING CONSTRUCTION, BUILDING, ETC. 8. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES. 9. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL EROSION CONTROL | |
| (| INSPECTOR FOR AN INSPECTION. 10. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED. | CIVIL F CIVIL R 1111 Raleigh Office: Fax: E Mail |
| | 11. WHEN VEGETATION HAS BECOME ESTABLISHED (90% GERMINATION), CALL FOR A FINAL INSPECTION BE THE EROSION CONTROL INSPECTOR. OBTAIN A CERTIFICATE OF COMPLETION. | |
| 1 | PERMITTING AND ENVIRONMENTAL REGULATION NOTES 1. ESC PERMITTING AND INSPECTIONS: | Щ |
| | 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. | AL NC |
| | B. AN NCG01 CERTIFICATE OF COVERAGE MUST BE OBTAINED FROM THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCDEQ). THE MAINTENANCE 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). | HTDALE OUNTY |
| ١ | 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. | D. K WAKE |
| $\frac{1}{r}$ | 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 | HP CCS F |
| \sim | RIBBON (25' MAX) — "PERIMETER CONTROL INSPECTION". II.INSTALLATION OF ALL PHASE 1 ESC MEASURES INCLUDING ENGINEERED STRUCTURES — "CERTIFICATE OF COMPLANCE INSPECTION". | ABA MIXI OWNSH OWNSH |
| | 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. | ON DF ST/ SNIGHT W'S TO |
| | 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. | VSTR TA MAT |
| <hr/> | 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 | Drawn By MRK Checked |
| / | 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 | By SRN |
| / | SHEETS. III.FOLLOW ALL CONDITIONS OUTLINED IN THE CERTIFICATIONS, 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 | DATE: 12 JAN 2024 |
| . — | IDENTIFY KEY ENVIRONMENTAL AND/OR CULTURAL RESOURCES BY USING APPROPRIATE IDENTIFIERS IN THE FIELD (TREE PROTECTION FENCING, FLAGGING, ETC.). | REVISED: 1×2024 |
| (- | 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 NC 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 NC DIVISION OF | 2 12 APR 2024 ∧ |
| \rightarrow | SOLID WASTE MANAGEMENT, OR PER NC DIVISION OF SOLID WASTE MANAGEMENT OR NC DIVISION OF WATER RESOURCES RULES AND REGULATIONS. | 309 MAY 2024 414 JUN 2024 |
| | DISTURBED AREA: 6.24 AC. (MORNING FLYER) | <u>∕5</u> 02 AUG 2024 ∧ |
| | 4.74 AC. (CAROLINIAN) 10.98 AC. (TOTAL BOTH SITES) | <u>6</u> 20 SEP 2024 |
| | | |
| | NORTH | |
| | MORNING FLYER WAY INITIAL | Image: Way InitialImage: Second secon |
| | EROSION CONTROL PLAN | Job Code ASKSCD |
| | SCALE: 1" = 60' (DRAWING SCALED FOR 24x36 INCH PLOTS) | Dwg No. |
| | 0 60 120 180 240 | |
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| 2. PERVISE BOX CONTENTS - A COPY OF THE TOK LAND DEVELOPMENT PERMIT. THE MCGOL CENTRICATE OF COVERAGE (CO) AND REGULAR PROPENDENDES ALCY OF THE APPROVAL PREVENDE SC PLAK, AND (WHEN COSTORAL PROPENDES ALCY OF THE APPROVAL PREVENDE SC PLAK, AND (WHEN COSTORAL PARAME) THE TOK CORRECTED OF COMPLIANCE - MUST BE KEPT ON SITE, PERFERALLY IN A PRIVITE BOX, AND KECOND ACCESSED LUMING INSPECTIONS, AND KECOND OF INSERVICES TO PERFERANCE NO. 3. 401/404 PERMITS - APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL PLAN DOES NOT AUTHORIZE INFORMATION CONTROL PLAN MADES NOT AUTHORIZE INFORMATION CONTROL PLAN MODES NOT AUTHORIZE INFORMATION IN MARKENANCE REQUIRED IN THE CONTROL AND AUTHOR AUTONS PROVIDE ANY DEVENTIONAL MODES NOT AUTHORIZE INTO AUTHORIZE INFORMATION OF MATERIA AND METAL READURES OF THE PLAN METAL READURES SECONSTITUCTION SECURING AND SEDIMENT AUTORIZATION ON THE PLAN METAL READURES IN THE PLAN MORE OCCURENCE ADEGUARED AND AUTHORIZATION ON THE PLAN MODES NOT AUTORIZATION ON THE PLAN METAL READURES AND READURATION AND METAL READURES AND MODES AND METAL MUTCRICATION SECURING AND SEDIMENT AUTORIZATION ON THE PLAN METAL READURES AND MODES AND AUTORIZATION ON THE PLAN METAL READURES AND MODES AND MODES AND METAL MODES NOT AUTORIZATION ON THE PLAN METAL READURES AND MODES AND MODES AND METAL READURES AND MODES AND METAL MUTCRICATION AND METAL READURES AND METAL READURES AND MODES AND METAL MUTCRICATION AND METAL R | | THE ABOVE ITEMS WILL RESULT IN ENFORCEMENT ACTION BY THE TOK. | 「いろ」。当 |
| COVERAGE (COC) AND REGULAR INPOSE INSPECTIONS, A COPY OF THE APPROVAL OF EXPLANATION AND RECEIVED AND ACCESSIBLE DURING INSPECTION. LOCATE A RAIN GAUGE ON SITE FOR FACULTATION OF INSPECTIONS AND RECORD ACCESSIBLE DURING INSPECTION. LOCATE A RAIN GAUGE ON SITE FOR FACULTATION OF INSPECTIONS AND RECORD AND SEDIMENTATION CONTROL PLAN DOES NOT AUTHORIZE ON SUPEREY AND THE PERMENS, OR OTHER MATTERS OF THE STATE OF UNDER STATES OF SUPEREY AND THE PERMENS, OR OTHER MATTERS AND RECORD AND SEDIMENTATION ON TROL PLAN DOES NOT AUTHORIZE AND THE PERMENS OF THE PERMIT AND DAYS SHOWNE LOCATION AND SEDIMENT CONTROL PLAN AND SEDIMENTATION ON THE PLAN SHOWNE AS REQUIRED BY THE STATES ON THE PLAN SHOT OF INFORMATION SECURICIAL METAL AND THE AND AND SEDIMENT CONTROL PLAN AND SEDIMENT CONTROL PLAN ADDITIONAL METAL MAY FEEDEL CONTROL PRIME AND DOES NOT AUTHORIZE AND AND SEDIMENT CONTROL PLAN AND SEDIMENT CONTROL PLAN ADDITIONAL METAL MAY SET AND AND SEDIMENT CONTROL PLAN AND SEDIMENT CONTROL SECURICIAL METAL MADING AND SEDIMENT CONTROL SECURICIAL METAL METAL METAL MADING AND SEDIMENT CONTROL SECURICIAL METAL MADING AND SEDIMENT CONTROL SECURICIAL METAL MADING AND SEDIMENT CONTROL SECURICIAL METAL MADING AND AND SEDIMENT CONTROL SECURICIAL METAL MADING AND AND SEDIMENT CONTROL MAD DISCHARTING ANY DISCHARGES IN THE FADAL METAL MADING AND MADING AND METAL MADING AND MADING AND MADINE AND/OR OLL THRAN MERGES BY USING APROFINATE INDURING ANY DISCHARGES IN THE FADAL METAL MADING AND AND SEDIMENT CONTROL PLAN ANDRE AND AND/OR OLL THRAN MERGES BY USING APROFINATE INDURING AND METAL MADING AND Y DISCHARGES IN THE FADAL METAL METAL METAL THAS YLEERER, FROM DEMONTH AND AND METAL MADING AND MADING AND METAL MADING AND MADINA AND MADINA AND MADINA AND SEDIMENT CONTROL PLAN ANDRE AND AND/OR OF SOLD WASTE MANAGEMENT OR NC IDVISION OF WATER AND ADDRES AND AND/OR OF SOLD WASTE MANAGEMENT OR NC IDVISION OF WATER AND ADDRES AND MADING AND MADINA AND/OR OLL THRAN MERGES BY USING APROFINATE FROM DEMONDAND OR MATER AND ADDRES AND MADINE AND ADDRES AND | | ACCORDANCE WITH THE APPROVED PLAN. | |
| A. da/Add PERMITS - APPROVAL OF THIS EROSION AND SEDMENTATION CONTROL PLAN DOES NOT AUTHORIZE IMPACTS TO WETLANDS, COASTAL MARCH, STREAMS, OR OTHER MATERS OF THE STATE OR UNITED STATES OR UNITED STATEMENT OF ANY DEFECTAL STATEMENT OF ANY DETECHAL, STATE OR UNITED STATEMAS, AND WELLANDS WITH ANY SECULA CONDITIONS PERTAINING TO EROSION AND SEMINATION ON THE ANY SECULA CONDITIONS PERTAINING TO EROSION AND SEMINATION ON THE ANY ADDITIONAL MEASURES, CONSTRUCTION SPECIFICATIONS, MANTENNOC FEQUIPEENTS AND CONSTRUCTION SECULATIONS, STATE STATES, WITH ANY OPECIAL CONDITIONS STATES ON THE PLAN. STATES ON THE PLAN STATES ON THE PLAN STATES ON THE PLAN STATES ON THE PLAN TORIZONS THE ONE ADDITIONAL MEASURES, CONSTRUCTION SPECIFICATIONS, MANTENNOC FEQUIPEENTIATION CONSTRUCTION SECULATED SORPE OF WORK. A. AREAS OF UNRONMENTAL CONCERN AND CULTURAL RESOURCES - BEFORE ANY SITE WORK OCCURS, ADEGUATELY DESTITY KEY ENVIRONMENTAL AND/OR CULTURAL RESOURCES - BEFORE ANY SITE WORK OCCURS, ADEGUATELY DESTITY ON THE ADVINTURE ON STEM WATARE DAVENT THE DISING APPROPRIATE DENTIFIES IN THE FELD OF WORK. A. AREAS OF UNRONMENTAL CONCERN AND CULTURAL RESOURCES - BEFORE ANY SITE WORK OCCURS, ADEGUATELY DESTITY REGULATED SORPE OF WORK. A. AREAS OF UNRONMENTAL CONCERN AND CULTURAL RESOURCES OF USING APPROPRIATE DENTIFIES IN THE FELD OF MORE AS A ADVINTOR CULTURAL RESOURCES OF USING APPROPRIATE DENTIFIES IN THE FELD OF MORE AS A ADVINTURE ON STEM WATAGENED. MITAN AND REPORTING TO SULD WASTE MANAGEMENT. TRANJOR DEMONITOR ACTIVITIES OR STEMASING OF SOLD MASTE MANAGEMENT. TO REAL ANAGEMENT OF WATER MITAN AND REPORTING TO SULD WASTE MANAGEMENT. TO NOTION AND SOLD AS A C. (TOTAL BOTH SITES). NORTH NORTH MORNING FLYER DEMONING FLYER WAR | | 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 | |
| MARACÍS TO WETLANDS, COASTAL MARSH, STREAMS, OR OTHER WATERS OF THE STATES OR SUPERSED ANY OTHER PERMITING REQUEREMIT OF ANY PEPERAL STATE OR UNITED STATES OR A C APPLICABLE, PROME A COPY OF THE USACE 404 PERMIT AND DWR AND DWR AND CORTINATION. A C DIMIT DOCUMENTATION WITH MAYS SHOWING DEATION TO IMPACTS TO STREAMS AND METLANDS WITH ANY SPECIAL CONDITIONS PERTAINING TO EROSION AND EXTENT OF IMPACTS TO STREAMS AND METLANDS WITH ANY SPECIAL CONDITIONS PERTAINING TO EROSION AND SEDIENT CONTROL AND METLANDS WITH ANY SPECIAL CONDITIONS PERTAINING TO EROSION AND SEDIENT CONTROL AND METLANDS. INDENTIFY THE STREAMS, WETLANDS, AND BUFFERS ON THE PLAN SHEETS INCLUDE ANY ADDITIONAL MEASURES, CONTRUCTION SPECIATIONS, MAINTENANCE REQUEREMENTS AND CONTROL TON OT THE PLAN MEASURES, CONTRUCTION SPECIATIONS, MAINTENANCE REQUEREMENTS AND CONTROL TAND BUFFER ANY STRE WORK OCCURS, ADECUMTELY IDDITIFY REY ENVIRONMENTAL AND/OR CULTURAL RESOURCES BY USING APROPRIATE IDENTIFIERS IN THE PLAN MEASURES CONTROL PLAN, A SITE MEDUATED UNDER THE MINING RATIO ON ATTIVITES OR GENERATED BY THAK DUSING OF SOLUD THAL MARSUMENT. TRASH, PLOERTS HOW DECOUNTION ACTIVITES OR GENERATED BY THAK DUSING OF SOLUD WASTE MANAGEMENT. TRASH, PLOERTS HOW DECOUNTION ACTIVITES OR GENERATED BY THAK ON SITE MUST BE DISPOSED OF AT A FACULTY REGULATED BY THE N. DUVISION OF SOLU WAY ACTIVITES ON SITE MUST BE DISPOSED OF AT A FACULTY REGULATED BY THE N. DUVISION OF SOLU WAY ACTIVITES ON SITE MUST BE DISPOSED OF AT A FACULTY REGULATED BY THE N. DUVISION OF SOLU WAY ACTIVITES ON SITE MUST BE DISPOSED OF AT A FACULTY REGULATED BY THE N. DUVISION OF SOLU WAY ACTIVITES ON SITE MUST BE DISPOSED OF AT A FACULTY REGULATED BY THE N. DUVISION OF SOLU WAY ACTIVITES ON SITE MUST BE DISPOSED OF AT A FACULTY REGULATED BY THE N. DUVISION OF SOLU WAY ACTIVITIES ON SITE MUST BE DISPOSED OF AT A FACULTY REGULATED BY THE N. DUVISION OF SOLU WAY ACTIVITIES ON SITE MUST BE DISPOSED OF AT A FACULTY REGULATED BY THE N. DUVISION OF SOLU WAY ACTIVITIES ON SITE MUST BE DISPOSED OF AT A FACULTY | | KEEPING. | $\Im \circ \mathbf{O} \triangleright \Im$ |
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| RESTORATION OF AFFECTED AREAS. RESTORATION OF AFFECTED AREAS. BLICENTEY THE STREAMS, WEITLANDS, AND BUFFERS ON THE PLAN SHEETS. INCLUDE ANY ADDITIONAL MEASURES, CONSTRUCTION SPECIFICATIONS, MAINTENANCE REQUIREMENTS AND CONSTRUCTION SECURCING AS REQUIRED BY THE 404/01/BUFFER DETERMINATION AND BUFFER AUTHORIZATION ON THE PLAN SHEETS. IFFOLLOW ALL CONDITIONS OUTLINED IN THE CERTIFICATIONS, SPECIFICALLY REPORTING ANY DISCHARGES OUTSIDE OF THE PERMITTED SCOPE OF WORK. 4. AREAS OF ENVIRONMENTAL AND/OR CULTURAL RESOURCES – BEFORE ANY SITE WORK OCCURS, ADEQUATELY IDENTFY KEY ENVIRONMENTAL AND/OR CULTURAL RESOURCES BY USING APPROPRIATE IDENTIFIES IN THE FIELD (THE PROTECTION FENCING, FLAGING, ETL.) 5. FULL/BORROW – ANY OFF-SITE BORROW AND/OR FILL REQUIRED FOR THIS PROJECT MUST COME FROM A SITE REGULATED BY THE NO. DUNSION OF SOLID WASTE MANAGEMENT. THE AND/DERD STREM DEMOLITION ACTIVITES OR GENERATED BY THE NO. DUNSION OF SOLID WASTE MANAGEMENT THE NO. DUNSION OF WATER RESOURCES RULES AND REGULATIONS. DISTURBED AREA: 6.24 A.C. (MORNING FLYER) 4.74 A.C. (CAROLINIAN) 10.98 A.C. (TOTAL BOTH SITES) NORTH MORNING FLYER WAY FINAL ENDALL EPOOSIONL CONTEDLY MORNING FLYER WAY FINAL ENDALL EPOOSIONL CONTEDLY Job ASKECD | | A COPY OF THE DWR BUFFER AUTHORIZATION. I.SUBMIT DOCUMENTATION WITH MAPS SHOWING LOCATION AND EXTENT OF IMPACTS TO STREAMS AND | Checked |
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| III-FOLLOW ALL CONDITIONS OUTLINED IN THE CERTIFICATIONS, SPECIFICALLY REPORTING ANY DISCHARGES OUTSIDE OF THE PERMITTED SCORE OF WORK. 4. AREAS OF ENVIRONMENTAL AND/OR CULTURAL RESOURCES -BEFORE ANY SITE WORK OCCURS, ADEQUATELY IDENTFY KEY ENVIRONMENTAL AND/OR CULTURAL RESOURCES BY USING APPROPRIATE IDENTIFIERS IN THE FIELD (TREE PROTECTION FERCING, ETC.). 5. FIL/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 REQUIRED FOR THIS PROJECT MUST COME FROM A SITE REGULATED BY THE NC DIVISION OF SOLD WASTE MANAGEMENT TRASH/DEBRIS FROM DEMOLITON ACTIVITIES OR GENERATED BY THE NC DIVISION OF SOLD WASTE MANAGEMENT OR NC DIVISION OF SOLD WASTE MANAGEMENT, TRASH/DEBRIS FROM DEMOLITON ACTIVITIES OR GENERATED BY THE NC DIVISION OF SOLD WASTE MANAGEMENT OR NC DIVISION OF SOLD WASTE MANAGEMENT, TRASH/DEBRIS FROM DEMOLITON ACTIVITIES OR RESOURCES RULES AND REGULATIONS. DISTURBED AREA: 6.2.4 A.C. (MORNING FLYER) 4.74 A.C. (CAROLINIAN) 10.98 A.C. (TOTAL BOTH SITES) NORTH MORNING FLYER WAY FINAL EROSIONL CONTROL PLAN MORNING FLYER WAY FINAL EROSIONL CONTROL PLAN Job ASKEDNA | | AS REQUIRED BY THE 404/401/BUFFER DETERMINATION AND BUFFER AUTHORIZATION ON THE PLAN | |
| IDENTIFY KEY ENVIRONMENTAL AND/OR CULTURAL RESOURCES BY USING APPROPRIATE IDENTIFIERS IN THE FIELD | | III.FOLLOW ALL CONDITIONS OUTLINED IN THE CERTIFICATIONS, SPECIFICALLY REPORTING ANY DISCHARGES | |
| S. 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 ANY ACTIVITIES ON SITE MUST BE DISPOSED OF AT A FACILITY REGULATED BY THE NC DIVISION OF WATER SOLID WASTE MANAGEMENT, OR PER NO DIVISION OF SOLID WASTE MANAGEMENT OR NC DIVISION OF WATER RESOURCES RULES AND REGULATIONS. | | IDENTIFY KEY ENVIRONMENTAL AND/OR CULTURAL RESOURCES BY USING APPROPRIATE IDENTIFIERS IN THE FIELD | 121 FEB 2024 |
| REGULATED BY THE NC DIVISION OF SOLID WASTE MANAGEMENT. TRASH /DEBRIS FROM DEMOLITION. ACTIVITES OR SOLID WASTE MANAGEMENT, OR PER NC DIVISION OF SOLID WASTE MANAGEMENT OR NC DIVISION OF WATER RESOURCES RULES AND REGULATIONS. DISTURBED AREA: 6.24 AC. (MORNING FLYER) 4.74 AC. (CAROLINIAN) 10.98 AC. (TOTAL BOTH SITES) NORTH MORNING FLYER WAY FINAL EPOSION CONTROL PLAN | | 5. FILL/BORROW – ANY OFF-SITE BORROW AND/OR FILL REQUIRED FOR THIS PROJECT MUST COME FROM A SITE | 12 APR 2024 |
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| 6.24 AC. (MORNING FLYER) 4.74 AC. (CAROLINIAN) 10.98 AC. (TOTAL BOTH SITES) NORTH MORNING FLYER WAY FINAL FROSION CONTROL PLAN | | | \$ 02 AUG 2024 |
| 4.74 AC. (CAROLINIAN) 10.98 AC. (TOTAL BOTH SITES) NORTH MORNING FLYER WAY FINAL FROSION CONTROL PLAN | | | <u>6</u> 20 SEP 2024 |
| NORTH MORNING FLYER WAY FINAL EROSION CONTROL PLAN | | | |
| NORTH MORNING FLYER WAY FINAL EROSION CONTROL PLAN | | [10.98 AC. (TOTAL BOTH SITES)] | |
| MORNING FLYER WAY FINAL EINAL EROSION CONTROL PLAN | | | L L L L L L L L L L L L L L L L L L L |
| MORNING FLYER WAY | | | ₹ WAY FINAL |
| FINAL EROSION CONTROL | | MORNING FLYER WAY | |
| | | | Job ASKSCD |

SCALE: 1" = 60'

Dwg No.

SITE

303

(DRAWING SCALED FOR 24x36 INCH PLOTS)

SEEDING SCHEDULE

| MAX. 3:1) | | | |
|-------------------------|---|---|--|
| TYPE | ТҮРЕ | | |
| BERMUDA | | 2 LBS/1000 SF | |
| 16-04-08 SLOW RELEASE | FERTILIZER | 5-10 LBS/1000 SF | |
| 16-04-08 SLOW RELEASE | FERTILIZER | 5-10 LBS/1000 SF | |
| 16-04-08 SLOW RELEASE | FERTILIZER | 5-10 LBS/1000 SF | |
| 16-04-08 SLOW RELEASE | FERTILIZER | 5-10 LBS/1000 SF | |
| 16-04-08 SLOW RELEASE | FERTILIZER | 5 LBS/1000 SF | |
| 16-04-08 SLOW RELEASE | FERTILIZER | 5 LBS/1000 SF | |
| | | | |
| Slopes (3:1 to 2:1) | | | |
| TYPE | F | PLANTING RATE | |
| SERICEA LESPEDESA | | 50 LBS/ACRE | |
| ADD TALL FESCUE | 1 | 20 LBS/ACRE | |
| ***TALL FESCUE AND | | 20 LBS/ACRE | |
| | | | |
| ***BROWNTOP MILLET OR 2 | | 25 LBS/ACRE | |
| OUGHNUM-SUDAN HYBRID 3 | | 80 LBS/ACRE | |
| RICEA LESEDESCA AND 7 | | 0 LBS/ACRE | |
| TALL FESCUE | ALL FESCUE 12 | | |
| ADD ABRUZZI RYE. | 2 | 25 LBS/ACRE | |
| | BERMUDA 16-04-08 SLOW RELEASE SLOPES (3:1 TO 2:1) TYPE SERICEA LESPEDESA ADD TALL FESCUE ***TALL FESCUE AND | TYPE BERMUDA 16-04-08 SLOW RELEASE FERTILIZER SLOPES (3:1 TO 2:1) TYPE SERICEA LESPEDESA ADD TALL FESCUE 1 ****BROWNTOP MILLET OR SOUGHNUM-SUDAN HYBRID SOUGHNUM-SUDAN HYBRID TALL FESCUE 1 | |

CONSULT EROSION CONTROL ENGINEER OR SOIL CONSERVATION SERVICES FOR OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS. OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

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

SEEDBED PREPARATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF THEY OCCUR. AFTER ALL ROUGH GRADING IS COMPLETED, TILL SOIL AREAS TO BE SEEDED AND PLANTED TO A DEPTH OF FIVE INCHES.

2. REMOVE ALL LOOSE ROCKS, ROOTS, DIRT CLODS, AND OTHER OBSTRUCTIONS LEAVING GROUND SURFACE SMOOTH AND UNIFORM.

3. TO PREPARE UNIFORM SEEDBED, INCORPORATE AGRICULTURAL LIME FERTILIZER AND SUPERPHOSPHATE INTO SOIL AREAS TO BE VEGETATED. DISK NUTRIENTS INTO SOIL UNTIL WELL PULVERIZED.

4. SEED ON PREPARED SEEDBED AND COVER LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK. APPLY TEMPORARY SEEDING TO SOIL STOCKPILE AREAS THAT WILL BE DISTURBED WITHIN 30 DAYS. APPLY PERMANENT SEEDING TO WHERE FINISH GRADES ARE ESTABLISHED.

5. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR WITH LIQUID ASPHALT AT 400 GAL./ACRE OR EMULSIFIED ASPHALT AT 300 GAL./ACRE.

6. MULCH ALL SEEDED AREAS WITH SMALL GRAIN STRAW AT 90 LBS./1000 SF AND SPREAD UNIFORMLY. GROUND SURFACE SHOULD BE VISIBLE TO ALLOW SUNLIGHT PENETRATION.

7. MULCH AROUND SHRUBBERY AND TREES WITH SHREDDED HARDWOOD TO A DEPTH OF 3 INCHES.

8. AFTER WORK IS COMPLETED AND AREAS ARE STABILIZED, CALL EROSION CONTROL OFFICER FOR SITE INSPECTION AND RECEIVE CERTIFICATE OF COMPLETION. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES, INSTALL RIP-RAP, AND SEED AND MULCH ANY REMAINING BARE AREAS.

| a. | Town Certification. This d | esign has been reviewed by the Engineer for the Town of |
|----|--------------------------------------|--|
| | Knightdale, and to the best o | of my knowledge and belief, it conforms to the requirements pecifications of the Town of Knightdale. |
| | By: Town Engineer | Date: |
| | These plans are approved by project. | the Town of Knightdale and serve as construction plans for this |
| | By: Land Use Administrator | Date: |

| SELF-INSPECTION, RECOR SECTION A: SELF-INSPECTION Self-inspections are required during normal by below. When adverse weather or site condit bersonnel to be in jeopardy, the inspection in which it is safe to perform the inspection. In greater than 1.0 inch occurs outside of norm berformed upon the commencement of the were delayed shall be noted in the Inspection which it is gauge maintained in good working order SELF-INSPECTION, RECOR Frequency (during normal business hours) Daily Daily Daily Daily Daily and all or available, re attended di | Site Area Description days after land distributed (a) Perimeter dikes, swales, ditches, and perimeter slopes image: distributed distret distributed distret distributed distributed distributed distrib | r ceasi urbanc 7 7 7 7 7 4 4 4 0 f con ed to po n 90 cal |
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| (d) | Ve | geta | ated, | upland | areas | of the | sites |
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s 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.

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH ons on this plan sheet will result in the constructior the Ground Stabilization and Materials Handling eral Permit (Sections E and F, respectively). The and Sediment Control plan approved by the All details and specifications shown on this sheet ons and the delegated authority having jurisdiction. Stabilization Timeframes Timofra

| ar asing ance | Timeframe variations |
|---------------------|---|
| | None |
| | None |
| | If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed |
| | -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed |
| | -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope |

construction activities, any areas with temporary permanent ground stabilization as soon as) calendar days after the last land disturbing shall be maintained in a manner to render the n until permanent ground stabilization is achieved.

ain will not dislodge the soil. Use one of the

- Permanent Stabilization
- Permanent grass seed covered with straw or other mulches and tackifiers
- Geotextile fabrics such as permanent soil reinforcement matting
- Hydroseeding
- Shrubs or other permanent plantings covered
- with mulch • Uniform and evenly distributed ground cover
- sufficient to restrain erosion
- Structural methods such as concrete, asphalt or retaining walls
- Rolled erosion control products with grass seed

riate for the soils being exposed during C DWR List of Approved PAMS/Flocculants. inlets to Erosion and Sediment Control Measures. ations specified in the NC DWR List of Approved

nce with the manufacturer's instructions. nent of treated Stormwater before discharging

ntainers that are kept under storm-resistant cover ainment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

Maintain vehicles and equipment to prevent discharge of fluids.

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

ITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface
- waters unless no other alternatives are reasonably available. 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.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- 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

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

ORTABLE TOILETS

- 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. Provide staking or anchoring of portable toilets during periods of high winds or in high
- foot traffic areas 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

- 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.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile
- Provide stable stone access point when feasible 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.

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER <u>042427</u>0 CLEARLY MARKED SIGNAGE NOTING DEVICE (18"X24" MIN SECTION A-A <u>Notes:</u> 1. Actual location determined in Field CLEARLY MARKED SIGNAGE NOTING DEVICE (18"X24" MIN.) 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY. PLAN 3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE. BELOW GRADE WASHOUT STRUCTURE

CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- 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.
- 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.
- 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
- 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.
- 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.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- 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. 0. 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

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions 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. 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. Do not stockpile these materials onsite.

- HAZARDOUS AND TOXIC WASTE Create designated hazardous waste collection areas on-site.
- 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

PART III PART III PART III ORDKEEPING AND REPORTING SELF-INSPECTION, RECORDKEEPING AND REPORTING SELF-INSPECTION, RECORDKEEPING AND REPORTING SECTION B: RECORDKEEPING SECTION C: REPORTING al business hours in accordance with the table 1. E&SC Plan Documentation 1. Occurrences that Must be Reported ditions would cause the safety of the inspection The approved E&SC plan as well as any approved deviation shall be kept on the site. The Permittees shall report the following occurrences: in may be delayed until the next business day on approved E&SC plan must be kept up-to-date throughout the coverage under this permit. (a) Visible sediment deposition in a stream or wetland. In addition, when a storm event of equal to or The following items pertaining to the E&SC plan shall be kept on site and available for ormal business hours, the self-inspection shall be inspection at all times during normal business hours. (b) Oil spills if: he next business day. Any time when inspections tion Record. Item to Document Documentation Requirements They are 25 gallons or more, (a) Each E&SC measure has been installed Initial and date each E&SC measure on a copy • They are less than 25 gallons but cannot be cleaned up within 24 hours, on records must include: and does not significantly deviate from the **bound** of the approved E&SC plan or complete, date locations, dimensions and relative elevations | and sign an inspection report that lists each ofall amounts. shown on the approved E&SC plan. E&SC measure shown on the approved E&SC ily rain gauge observations are made during weekend or plan. This documentation is required upon the periods, and no individual-day rainfall information is initial installation of the E&SC measures or if , record the cumulative rain measurement for those ur the E&SC measures are modified after initial days (and this will determine if a site inspection is Days on which no rainfall occurred shall be recorded as installation. The permittee may use another rain-monitoring device (Ref: 40 CFR 302.4) or G.S. 143-215.85. (b) A phase of grading has been completed. Initial and date a copy of the approved E&SC d by the Division. plan or complete, date and sign an inspection fleation of the measures inspected, and time of the inspection, report to indicate completion of the (d) Anticipated bypasses and unanticipated bypasses. of the person performing the inspection, construction phase. tion of whether the measures were operating (c) Ground cover is located and installed Initial and date a copy of the approved E&SC in accordance with the approved E&SC plan or complete, date and sign an inspection ription of maintenance needs for the measure. environment. report to indicate compliance with approved ription, evidence, and date of corrective actions taken. fication of the discharge outfalls inspected, ground cover specifications. and time of the inspection, (d) The maintenance and repair Complete, date and sign an inspection report. . Reporting Timeframes and Other Requirements e of the person performing the inspection, requirements for all E&SC measures nce of indicators of stormwater pollution such as oil have been performed. , floating or suspended solids or discoloration ation of visible sediment leaving the site, (e) Corrective actions have been taken. Initial and date a copy of the approved E&SC ription, evidence, and date of corrective actions taken to E&SC measures. plan or complete, date and sign an inspection sedimentation is found outside site limits, then a record report to indicate the completion of the llowing shail be made: 858-0368. ns taken to clean up or stabilize the sediment that has lef corrective action. ite limits, 2. Additional Documentation to be Kept on Site Reporting Timeframes (After Discovery) and Other Requirements ription, evidence, and date of corrective actions taken, and Occurrence In addition to the E&SC plan documents above, the following items shall be kept on the planation as to the actions taken to control future (a) Visible sediment • Within 24 hours, an oral or electronic notification. site and available for inspectors at all times during normal business hours, unless the deposition in a ream or wetland has increased visible sedimentation or a Division provides a site-specific exemption based on unique site conditions that make stream or wetland has visible increased turbidity from the construction this requirement not practical: then a record of the following shall be made: case-by-case basis. ription, evidence and date of corrective actions taken, and ds of the required reports to the appropriate Division (a) This General Permit as well as the Certificate of Coverage, after it is received. onal Office per Part III, Section C, Item (2)(a) of this permit. hase of grading (installation of perimeter E&SC (b) Records of inspections made during the previous twelve months. The permittee shall sures, clearing and grubbing, installation of storm record the required observations on the Inspection Record Form provided by the age facilities, completion of all land-disturbing ity, construction or redevelopment, permanent Division or a similar inspection form that includes all the required elements. Use of (b) Oil spills and electronically-available records in lieu of the required paper copies will be allowed if release of mentation that the required ground stabilization shown to provide equal access and utility as the hard-copy records. sures have been provided within the required hazardous location of the spill or release. rame or an assurance that they will be provided as substances per Iter 3. Documentation to be Retained for Three Years 1(b)-(c) above All data used to complete the e-NOI and all inspection records shall be maintained for a period (c) Anticipated uired 7 calendar day inspection requirement. of three years after project completion and made available upon request. [40 CFR 122.41] bypasses [40 CFR 122.41(m)(3)] effect of the bypass. (d) Unanticipated PART II, SECTION G, ITEM (4) bypasses [40 CFR DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT 122.41(m)(3) quality and effect of the bypass noff 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 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). of this permit that asins shall be allowed only when all of the following criteria have been met:

provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal plan authority has approved these items,

en reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit, with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include ained dewatering tanks, weir tanks, and filtration systems,

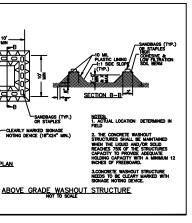
NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).
- (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA
- (e) Noncompliance with the conditions of this permit that may endanger health or the

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

- 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 If the stream is named on the NC 303(d) list as impaired for sedimentrelated 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. Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and 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 • Within 24 hours, an oral or electronic notification.
- (e) Noncompliance Within 24 hours, an oral or electronic notification with the conditions • Within 7 calendar days, a report that contains a description of the may endanger health or the environment[40 CFR 122.41(I)(7)]
- Within 7 calendar days, a report that includes an evaluation 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(1)(6). Division staff may waive the requirement for a written report on a case-by-case basis.



EFFECTIVE: 04/01/19

NPDES GROUND STABILIZATION SCHEDULE

| SITE AREA DESCRIPTION | STABILIZATION TIME FRAME | STABILIZATION TIME FRAME EXCEPTIONS | AREAS ON THIS SITE |
|---|-----------------------------|---|---|
| PERIMETER DIKES, SWALES, DITCHES AND SLOPES | 7 DAYS | NONE | TEMPORARY DIVERSION DITCHES |
| HIGH QUALITY WATER (HQW) ZONES | 7 DAYS | NONE | 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 | NONE |
| SLOPES 3:1 OR FLATTER | 14 DAYS | 7–DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH | REMAINDER OF PROJECT AREA |
| ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1 | 14 DAYS | NONE (EXCEPT FOR PERIMETERS AND HQW ZONES) | INCLUDED W/ 3:1 OR FLATTER SLOPES |

NPDES PLAN NOTES

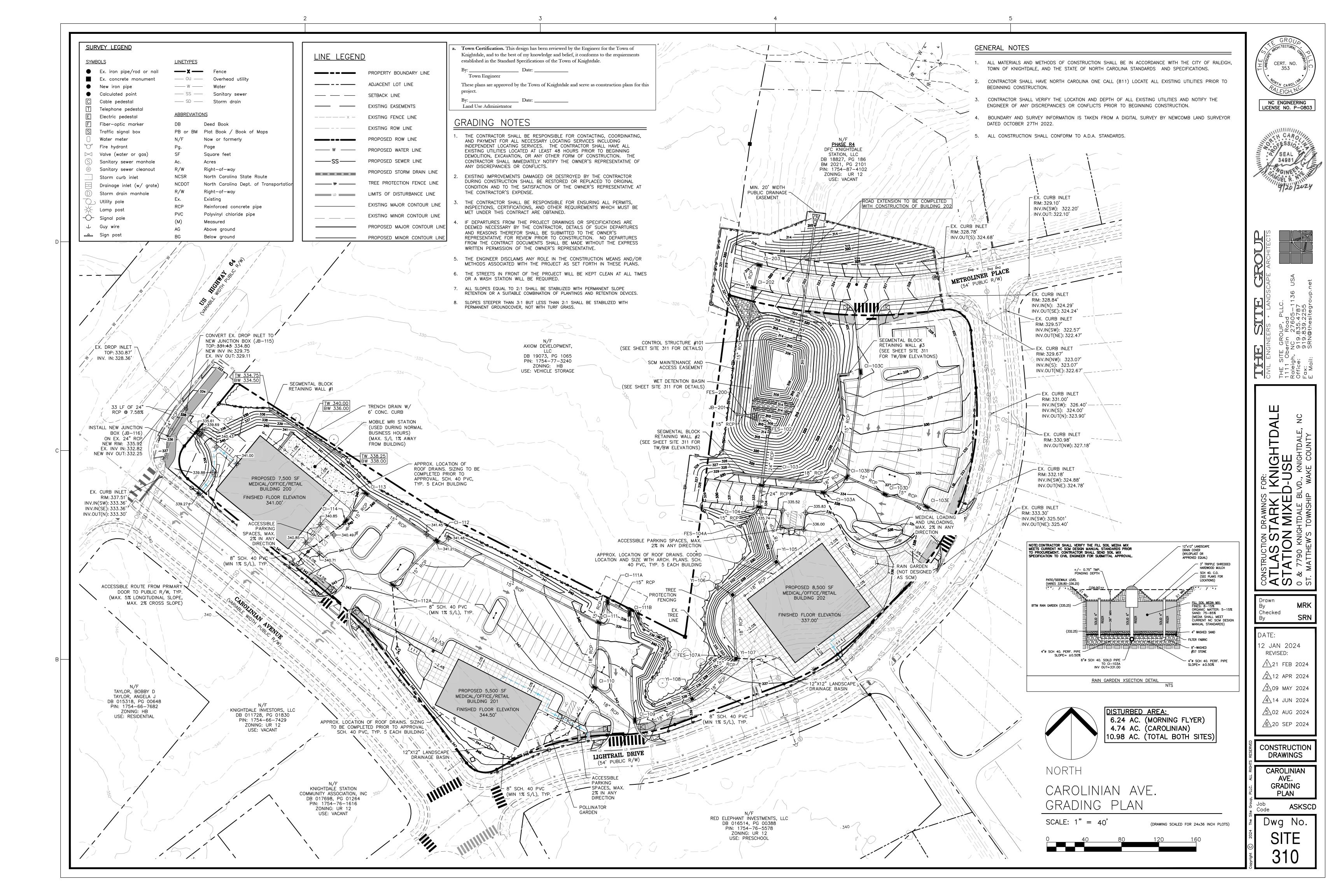
- THIS PAGE IS SUBMITTED TO COMPLY WITH NPDES GENERAL STORMWATER PERMIT NCG010000. THIS PAGE CAN BE APPROVED BY THE CITY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000 ONLY.
- THIS PAGE OF THE APPROVED PLANS IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000.
- THE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

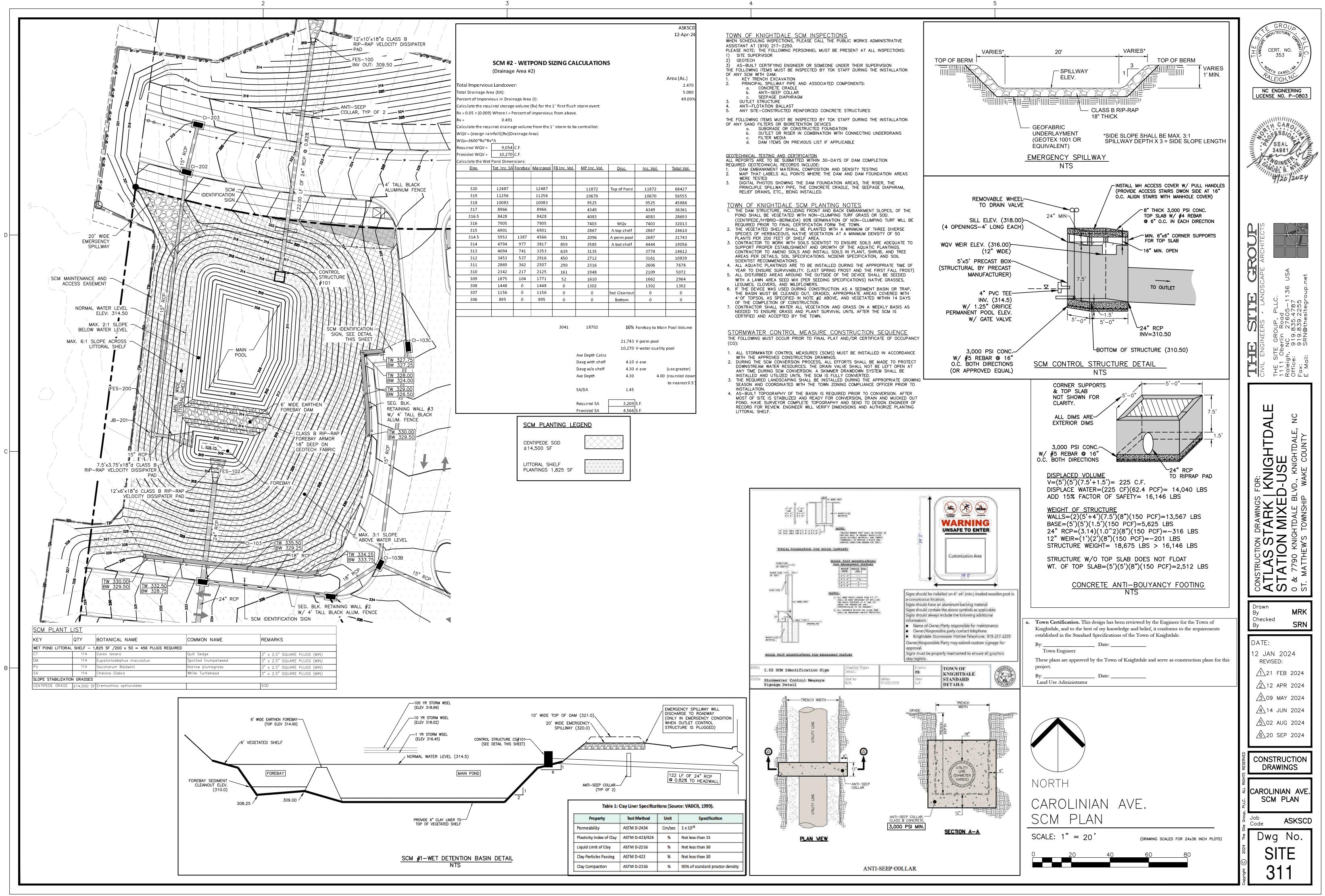
CFRT. NO NC ENGINEERING LICENSE NO. P-0803

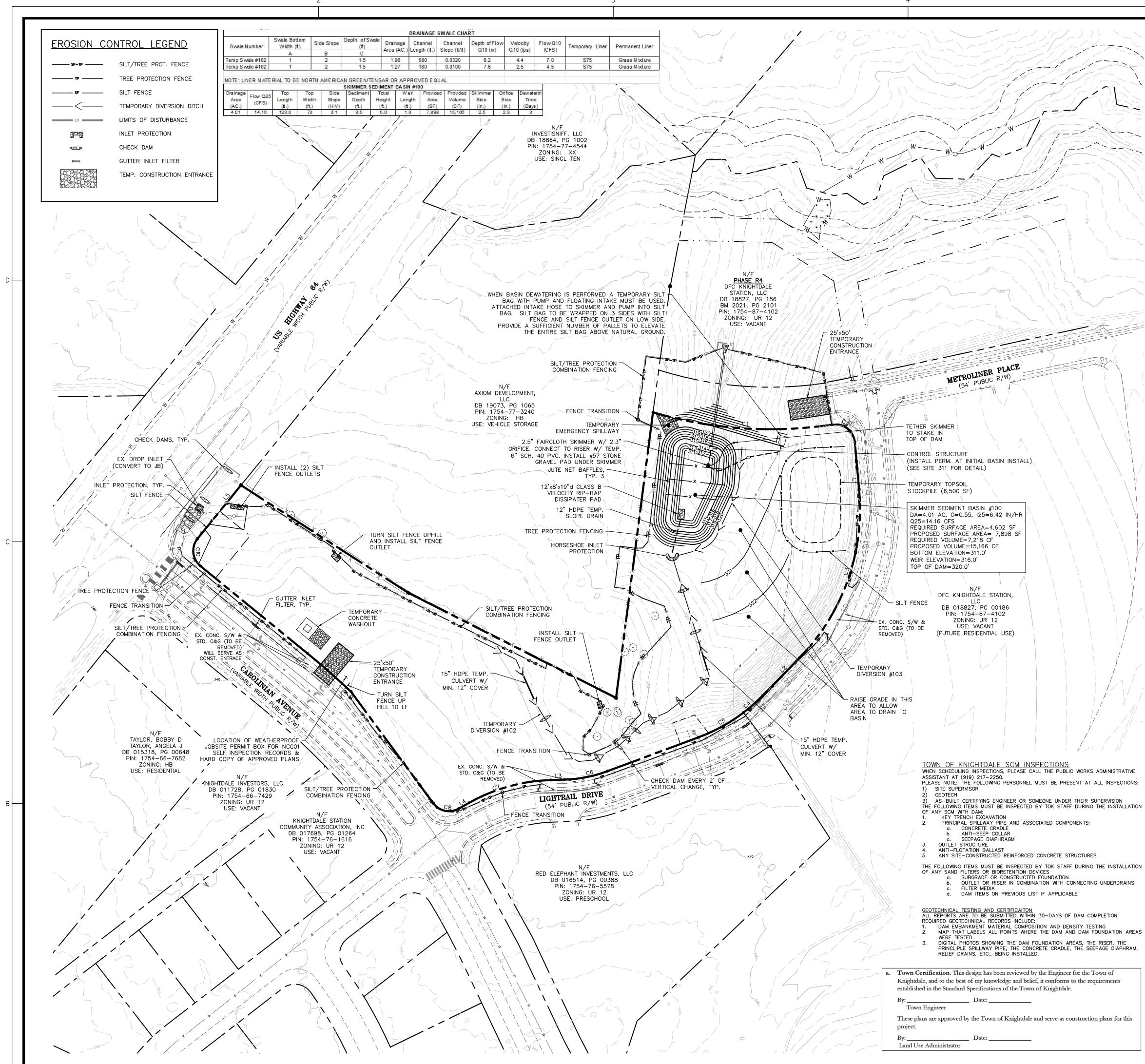


| JOON | ANDSCAPE ARCHITECTS | | |
|------|---------------------|--|--|
| | LANDSCAPE | E GROUP, PLLC. berlin Road NC 27605–1136 USA 919.835.4787 919.839.2255 SRN@thesitegroup.net | |
| | GINEERS . | E GROUP, PLLC. berlin Road NC 27605—1136 US 919.835.4787 919.839.2255 SRN@thesitegroup.net | |

| | CONSTRUCTION DRAWINGS FOR: ATLAS STARK KNIGHTDALE STATION MIXED-USE | 0 & 7790 KNIGHTDALE BLVD., KNIGHTDALE, NC ST. MATTHEW'S TOWNSHIP WAKE COUNTY |
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| Site Group, PLLC. ALL RIGHTS RESERVED | REVISED: | 2024 2024 2024 2024 2024 2024 CTION GS FLYER S SKSCD |
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CONSTRUCTION SEQUENCE

- 1. REQUEST PRECONSTRUCTION MEETING.
- 2. INSTALL TREE PROTECTION FENCING AND CONTACT THE TOWN OF KNIGHTDALE INSPECTOR FOR APPROVAL. 5. OBTAIN GRADING PERMIT

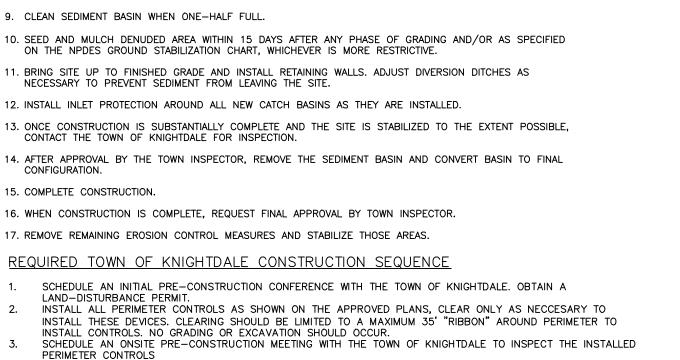
CONFIGURATION

15. COMPLETE CONSTRUCTION.

PERIMETER CONTROLS

COMPLANCE INSPECTION".

- 4. CLEAR ONLY WHAT IS NECESSARY FOR INSTALLATION OF EROSION CONTROL MEASURES.
- 5. INSTALL ALL EROSION CONTROL MEASURES AS SHOWN ON THE INITIAL EROSION CONTROL PLAN, SITE 302. 6. OBTAIN CERTIFICATE OF COMPLIANCE THROUGH ON-SITE INSPECTION BY EROSION CONTROL OFFICER.
- 7. BEGIN CONSTRUCTION AS SHOWN ON PLANS. PROCEED WITH ROUGH GRADING.
- 8. COMPACT NEW BACKFILL MATERIAL PER SPECIFICATIONS.
- 9. CLEAN SEDIMENT BASIN WHEN ONE-HALF FULL.



- IF APPROVED, PROCEED WITH INSTALLING GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLANS. CLEAR ONLY AS NECCESARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS, AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
- CALL TOWN OF KNIGHTDALE EROSION CONTROL INSPECTOR TO SCHEDULE AN ONSITE INSPECTION AND OBTAIN A
- CERTIFICATE OF COMPLIANCE. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL CONTROLS, SEDIMENT TRAPS
- OR OTHER APPROVED MEASURES AS SHOWN IN THE APPROVED PLAN. BEING CONSTRUCTION, BUILDING, ETC. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC.
- SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL EROSION CONTROL
- INSPECTOR FOR AN INSPECTION. 10. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS
- VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED. WHEN VEGETATION HAS BECOME ESTABLISHED (90% GERMINATION), CALL FOR A FINAL INSPECTION BE THE EROSION CONTROL INSPECTOR. OBTAIN A CERTIFICATE OF COMPLÉTION.

PERMITTING AND ENVIRONMENTAL REGULATION 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 MAINTENANCE 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

T 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

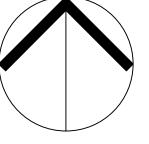
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- I.SUBMIT DOCUMENTATION WITH MAPS SHOWING LOCATION AND EXTENT OF IMPACTS TO STREAMS AND WETLANDS WITH ANY SPECIAL CONDITIONS PERTAINING TO EROSION AND SEDIMENT CONTROL AND RESTORATION OF AFFECTED AREAS. I.IDENTIFY THE STREAMS, WETLANDS, AND BUFFERS 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 II.FOLLOW ALL CONDITIONS OUTLINED IN THE CERTIFICATIONS, 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 NC 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 NC DIVISION OF SOLID WASTE MANAGEMENT, OR PER NC DIVISION OF SOLID WASTE MANAGEMENT OR NC DIVISION OF WATER RESOURCES RULES AND REGULATIONS.

| INSTALLATION | |
|--------------|--|
| DERDRAINS | |
| | |



DISTURBED AREA:

NORTH

6.24 AC. (MORNING FLYER) 4.74 AC. (CAROLINIAN)

10.98 AC. (TOTAL BOTH SITES)

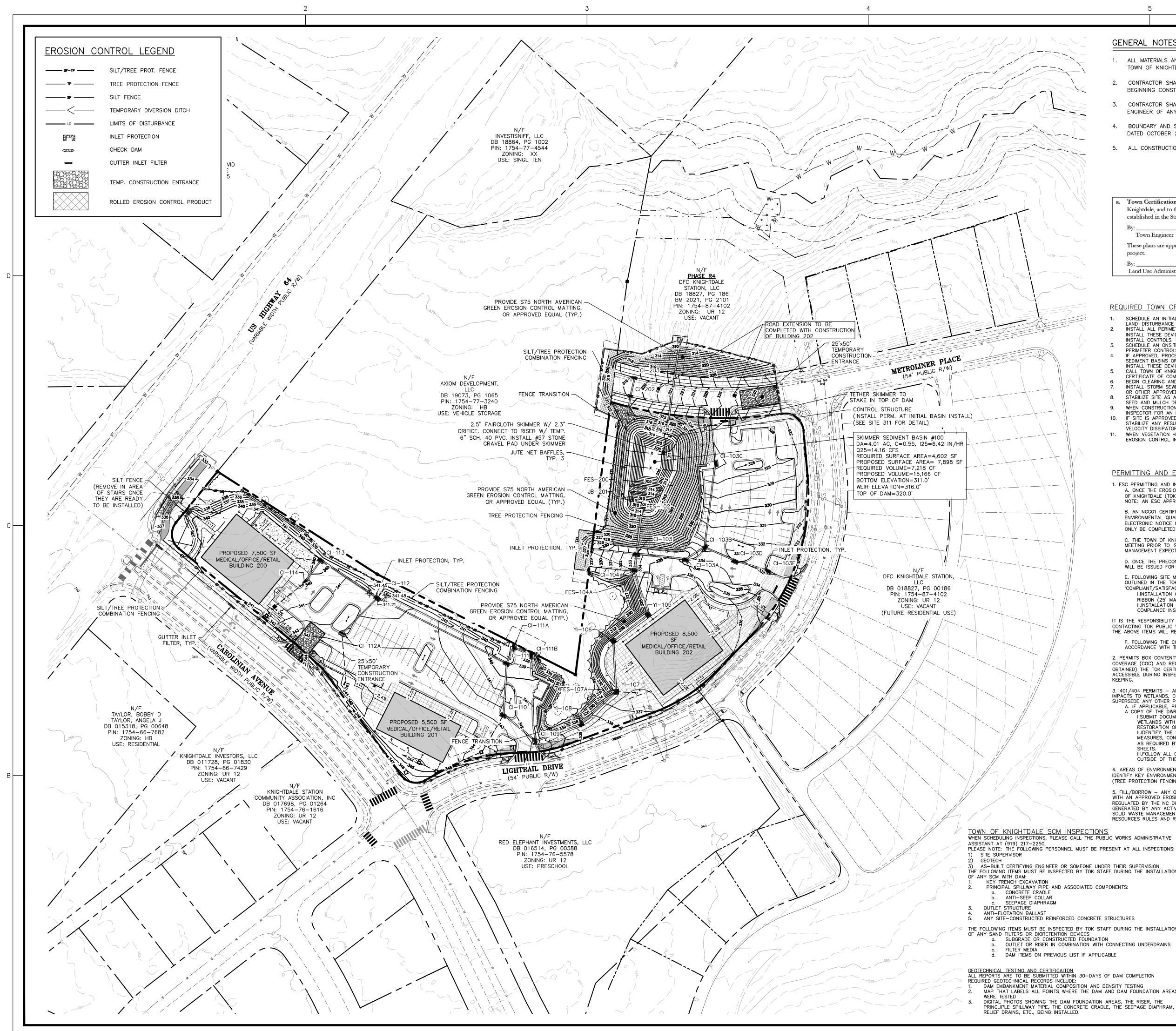
CAROLINIAN AVE. INITIAL EROSION CONTROL PLAN SCALE: 1'' = 60'(DRAWING SCALED FOR 24x36 INCH PLOTS)



212 APR 2024 309 MAY 2024 <u>/4</u>14 JUN 2024 502 AUG 2024 6 20 SEP 2024 CONSTRUCTION DRAWINGS CAROLINIAN AVE EXISTING CONDITIONS PLAN Job Code ASKSCD Dwg No. SITE 312

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| THE SITE GROUP CIVIL ENGINEERS • LANDSCAPE ARCHITECTS | THE SITE GROUP, PLLC. 1111 Oberlin Road Raleiah. NC 27605-1136 USA | u.d.n | |
| CONSTRUCTION DRAWINGS FOR: | STATION MIXED-USE | 0 & 7790 KNIGHTDALE BLVD., KNIGHTDALE, NC ST. MATTHEW'S TOWNSHIP WAKE COUNTY | |
| Drawn By Check By DATE: | | MRK SRN | |
| 12 JA REV | N 202 ISED: 1 FEB | | |

CERT. NO.



GENERAL NOTES

- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH, TOWN OF KNIGHTDALE, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
- 4. BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A DIGITAL SURVEY BY NEWCOMB LAND SURVEYOR DATED OCTOBER 27TH 2022.
- 5. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

a. 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.

_____ Date: _____ Town Engineer

These plans are approved by the Town of Knightdale and serve as construction plans for this project.

Date: _____ Land Use Administrator

REQUIRED TOWN OF KNIGHTDALE CONSTRUCTION SEQUENCE

- SCHEDULE AN INITIAL PRE-CONSTRUCTION CONFERENCE WITH THE TOWN OF KNIGHTDALE. OBTAIN A LAND-DISTURBANCE PERMIT. INSTALL ALL PERIMETER CONTROLS AS SHOWN ON THE APPROVED PLANS, CLEAR ONLY AS NECCESARY TO
- INSTALL THESE DEVICES. CLEARING SHOULD BE LIMITED TO A MAXIMUM 35' "RIBBON" AROUND PERIMETER TO INSTALL CONTROLS. NO GRADING OR EXCAVATION SHOULD OCCUR.
- SCHEDULE AN ONSITE PRE-CONSTRUCTION MEETING WITH THE TOWN OF KNIGHTDALE TO INSPECT THE INSTALLED PERIMETER CONTROLS
- IF APPROVED, PROCEED WITH INSTALLING GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLANS. CLEAR ONLY AS NECCESARY TO
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- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL EROSION CONTROL INSPECTOR FOR AN INSPECTION.
- 10. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
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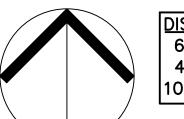
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PLEASE NOTE: THE FOLLOWING PERSONNEL MUST BE PRESENT AT ALL INSPECTIONS:

3) AS-BUILT CERTIFYING ENGINEER OR SOMEONE UNDER THEIR SUPERVISION THE FOLLOWING ITEMS MUST BE INSPECTED BY TOK STAFF DURING THE INSTALLATION

THE FOLLOWING ITEMS MUST BE INSPECTED BY TOK STAFF DURING THE INSTALLATION OUTLET OR RISER IN COMBINATION WITH CONNECTING UNDERDRAINS

DAM EMBANKMENT MATERIAL COMPOSITION AND DENSITY TESTING MAP THAT LABELS ALL POINTS WHERE THE DAM AND DAM FOUNDATION AREAS



| 6.24 AC. (MORNING FLYER) | |
|----------------------------|---|
| 4.74 AC. (CAROLINIAN) | |
| 10.98 AC. (TOTAL BOTH SITE | S |

| NORTH | |
|-------------------|---------------------------------------|
| | |
| CAROLINIA | N AVE. FINAL |
| FROSION | CONTROL PLAN |
| | |
| SCALE: $1" = 60'$ | (DRAWING SCALED FOR 24x36 INCH PLOTS) |

| | CERT. NO. HE CAROLINE CERT. NO. JORTH CAROLINE NC ENGINEERING LICENSE NO. P-0803 SEAL 34981 SEAL 34981 SEAL 34981 SEAL 34981 SEAL 34981 SEAL 34981 SEAL 34981 SEAL 34981 SEAL 34981 SEAL |
|---|---|
| | THE SITE GROUP, PLLC. THE SITE GROUP, PLLC. THE SITE GROUP, PLLC. 1111 Oberlin Road Raleigh, NC 27605–1136 USA Office: 919.835.4787 Fax: 919.835.4787 Fax: 919.835.2555 E Mail: SRN@thesitegroup.net |
| | CONSTRUCTION DRAWINGS FOR: ATLAS STARK KNIGHTDALE STATION MIXED-USE 0 & 7790 KNIGHTDALE BLVD., KNIGHTDALE, NC ST. MATTHEW'S TOWNSHIP WAKE COUNTY |
| | $\begin{array}{c c} Drawn \\ By \\ Checked \\ By \end{array} & MRK \\ SRN \\ \hline \\ SRN \\ \hline \\ DATE: \\ 12 JAN 2024 \\ REVISED: \\ \hline 1 21 FEB 2024 \\ \hline 2 12 APR 2024 \\ \hline 2 12 APR 2024 \\ \hline 3 09 MAY 2024 \\ \hline 3 09 MAY 2024 \\ \hline 4 14 JUN 2024 \\ \hline 5 02 AUG 2024 \\ \hline 5 02 AUG 2024 \\ \hline 6 20 SEP 2024 \\ \hline \end{array}$ |
| C) 2024 The Site Group, PLLC. ALL RIGHTS RESERVED | CONSTRUCTION DRAWINGS CAROLINIAN AVE. FINAL EROSION CONTROL PLAN Job Code ASKSCD Dwg No. SITE |

313

CROU

SEEDING SCHEDULE

| BERMUDA LAWN, SLOPES (MAX. 3:1) |
|---------------------------------|
|---------------------------------|

| | | 1 | | |
|--------------------------|------|---------------------------------|----|------------------|
| DATE | | ТҮРЕ | | PLANTING RATE |
| APR. 15 - JUNE 15 | | BERMUDA | | 2 LBS/1000 SF |
| LATE SPRING(1st 2 YEARS) | | 16-04-08 SLOW RELEASE FERTILIZE | R | 5-10 LBS/1000 SF |
| EARLY SUMMER(1st 2 YEARS | S) | 16-04-08 SLOW RELEASE FERTILIZE | R | 5-10 LBS/1000 SF |
| LATE SUMMER(1st 2 YEARS) | | 16-04-08 SLOW RELEASE FERTILIZE | R | 5-10 LBS/1000 SF |
| EARLY FALL(1st 2 YEARS) | | 16-04-08 SLOW RELEASE FERTILIZE | R | 5-10 LBS/1000 SF |
| MID SUMMER (ESTABLISHED) |) | 16-04-08 SLOW RELEASE FERTILIZE | R | 5 LBS/1000 SF |
| LATE SUMMER (ESTABLISHED |)) | 16-04-08 SLOW RELEASE FERTILIZE | R | 5 LBS/1000 SF |
| | | | | |
| SHOULDERS, SIDE DITCHES, | , SI | LOPES (3:1 TO 2:1) | | |
| DATE | T | YPE | ΡI | LANTING RATE |
| MAR 1 JUN. 1 | S | ericea lespedesa | 50 |) LBS/ACRE |
| & MAR 1 APR. 15 | A | NDD TALL FESCUE | 12 | 20 LBS/ACRE |
| JUN. 1 - SEP. 1 | *: | **TALL FESCUE AND | 12 | 20 LBS/ACRE |
| | | | | |
| | *: | **BROWNTOP MILLET OR | 2 | 5 LBS/ACRE |
| | S | OUGHNUM-SUDAN HYBRID | 30 |) LBS/ACRE |
| SEP. 1 - MAR. 1 | E | ricea lesedesca and | 70 |) LBS/ACRE |
| | T. | ALL FESCUE | 12 | 20 LBS/ACRE |
| NOV. 1 - MAR. 1 | A | DD ABRUZZI RYE. | 2 | 5 LBS/ACRE |
| | | | | |

CONSULT EROSION CONTROL ENGINEER OR SOIL CONSERVATION SERVICES FOR OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS. OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

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

SEEDBED PREPARATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF THEY OCCUR. AFTER ALL ROUGH GRADING IS COMPLETED, TILL SOIL AREAS TO BE SEEDED AND PLANTED TO A DEPTH OF FIVE INCHES.

2. REMOVE ALL LOOSE ROCKS, ROOTS, DIRT CLODS, AND OTHER OBSTRUCTIONS LEAVING GROUND SURFACE SMOOTH AND UNIFORM.

3. TO PREPARE UNIFORM SEEDBED, INCORPORATE AGRICULTURAL LIME FERTILIZER AND SUPERPHOSPHATE INTO SOIL AREAS TO BE VEGETATED. DISK NUTRIENTS INTO SOIL UNTIL WELL PULVERIZED.

4. SEED ON PREPARED SEEDBED AND COVER LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK. APPLY TEMPORARY SEEDING TO SOIL STOCKPILE AREAS THAT WILL BE DISTURBED WITHIN 30 DAYS. APPLY PERMANENT SEEDING TO WHERE FINISH GRADES ARE ESTABLISHED.

5. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR WITH LIQUID ASPHALT AT 400 GAL./ACRE OR EMULSIFIED ASPHALT AT 300 GAL./ACRE.

6. MULCH ALL SEEDED AREAS WITH SMALL GRAIN STRAW AT 90 LBS./1000 SF AND SPREAD UNIFORMLY. GROUND SURFACE SHOULD BE VISIBLE TO ALLOW SUNLIGHT PENETRATION.

7. MULCH AROUND SHRUBBERY AND TREES WITH SHREDDED HARDWOOD TO A DEPTH OF 3 INCHES.

8. AFTER WORK IS COMPLETED AND AREAS ARE STABILIZED, CALL EROSION CONTROL OFFICER FOR SITE INSPECTION AND RECEIVE CERTIFICATE OF COMPLETION. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES, INSTALL RIP-RAP, AND SEED AND MULCH ANY REMAINING BARE AREAS.

| e Area De Perimete swales, o perimete High Qua (HQW) Z Slopes st 3:1 Slopes st 3:1 Slopes 3: Areas wir latter the d stabiliz cable but y. Temp e stable MD STAE ze the gr ques in t Te mporary g er mulche droseedin led erosic hout tem | escription er dikes, ditches, and er slopes ality Water ones ceeper than ceeper than cation shall be t in no case lo orary ground against accel BILIZATION SI found sufficie the table belo mporary Stabil grass seed cover es and tackifier g in control prod porary grass se y applied straw | cessal and c and c and c and c cessal cessal conv onger f stabil eratec pecifi stabil eratec pecifi stabil eratec pecifi stabil eratec pecifi s atton cessal conv onger f s stabil eratec conv conv conv conv conv conv conv con | I Ground ize with calenda after cea- disturba 7 7 7 7 14 14 14 14 14 14 14 14 14 14 14 14 14 |
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| HANDLING PRACTICES FOR COMPLIANCE WITH | EQUIPMENT AND VEHICLE MAINTENAN 1. Maintain vehicles and equipment | | ONSI ST | TE CONCRETE WASHOUT RUCTURE WITH LINER |
|---|--|--|---|--|
| s on this plan sheet will result in the construction ne Ground Stabilization and Materials Handling al Permit (Sections E and F, respectively). The | | d equipment. s feasible, or remove leaking equipment from the | | |
| d Sediment Control plan approved by the details and specifications shown on this sheet | project. 4. Collect all spent fluids, store in sep hazardous waste (recycle when po | parate containers and properly dispose as | | |
| s and the delegated authority having jurisdiction. | | truction equipment from service until the problem | CONCRETE CLEARLY MARKED SCHARE WINSHOUT NOTING DEVICE (18724" MIN.) 1. ACTUAL LOCATION | A SANDBAOS (TVP.) NOTES: OR STAPES TATALS TATALS TATALS TATALS TATALS TO CONCETE WASHOUT OR STAPES TO CONCETE WASHOUT OR TATAL OF MATTANED AND TATAL OF MATTANED AND TATAL OF MATTANED |
| Stabilization Timeframes | Bring used fuels, lubricants, coolar to a recycling or disposal center th | nts, hydraulic fluids and other petroleum products at handles these materials. | E MARTANET WER REAGES 757 GF IN PLAN. CLEARY MARKED WITH CLEARY MARKED WITH | BOULDATION LINES AND |
| n this Timeframe variations sing | LITTER, BUILDING MATERIAL AND LAND | CLEARING WASTE | BELOW GRADE WASHOUT STRUC | NEEDS TO BE CLOWY MAKEN WIN SEGMENT WOTH OF VER. TURE ABOVE GRADE WASHOUT STRUCTURE NOT TO SCALE |
| ce None | Never bury or burn waste. Place lit Provide a sufficient number and siz receptacle) on site to contain const | ter and debris in approved waste containers. e of waste containers (e.g dumpster, trash ruction and domestic wastes. | CONCRETE WASHOUTS 1. Do not discharge concrete | or cement slurry from the site. |
| None | waters unless no other alternatives | feet away from storm drain inlets and surface are reasonably available. nat do not receive substantial amounts of runoff | and state solid waste regul | ed, hardened concrete residue in accordance with local lations and at an approved facility. rtar mixers in accordance with the above item and in |
| If slopes are 10' or less in length and are not steeper than 2:1, 14 days are | 5. Cover waste containers at the end | ain directly to a storm drain, stream or wetland. of each workday and before storm events or | | nd associated materials on impervious barrier and within |
| allowed -7 days for slopes greater than 50' in | 6. Anchor all lightweight items in was | epair or replace damaged waste containers. te containers during times of high winds. to prevent overflow. Clean up immediately if | alternate method or produ | washouts per local requirements, where applicable. If a ict is to be used, contact your approval authority for cal standard details are not available, use one of the two |
| length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW | containers overflow.8. Dispose waste off-site at an approv | , | types of temporary concre | te washouts provided on this detail. buts for dewatering or storing defective curb or sidewalk |
| Zones -10 days for Falls Lake Watershed | | oose of waste in designated waste containers. | discharged to the storm dr | imulated within the washout may not be pumped into o ain system or receiving surface waters. Liquid waste mu |
| -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones | | d waste into storm drains, streams or wetlands. | | ed from project. O feet from storm drain inlets and surface waters unless r alternatives are reasonably available. At a minimum, |
| -10 days for Falls Lake Watershed unless there is zero slope | Locate paint washouts at least 50 f waters unless no other alternatives Contain liquid wastes in a controlle | - | install protection of storm spills or overflow. | drain inlet(s) closest to the washout which could receive |
| nstruction activities, any areas with temporary permanent ground stabilization as soon as alendar days after the last land disturbing | 4. Containment must be labeled, size | d and placed appropriately for the needs of site. vents, detergents and other liquid wastes from | | ly accessible area, on level ground and install a stone e washout. Additional controls may be required by the |
| nall be maintained in a manner to render the until permanent ground stabilization is achieved. | construction sites. | vents, detergents und other niquid wastes nom | 8. Install at least one sign dire | ecting concrete trucks to the washout within the project washout itself to identify this location. |
| n will not dislodge the soil. Use one of the | | ind, at least 50 feet away from storm drains, | 9. Remove leavings from the overflow events. Replace | washout when at approximately 75% capacity to limit the tarp, sand bags or other temporary structural |
| Permanent Stabilization | | no alternative reasonably available. If 50 foot ocation of portable toilet behind silt fence or place sand bags. | products, follow manufact | |
| Permanent grass seed covered with straw or other mulches and tackifiers | Provide staking or anchoring of por foot traffic areas. | table toilets during periods of high winds or in high | | oncrete work, remove remaining leavings and dispose or cility. Fill pit, if applicable, and stabilize any disturbance nout. |
| Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding | | ; and properly dispose of any leaked material. uler to remove leaking portable toilets and replace | | |
| Shrubs or other permanent plantings covered with mulch | | | HERBICIDES, PESTICIDES AND RC 1. Store and apply herbicides, | DENTICIDES , pesticides and rodenticides in accordance with label |
| Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or | 1. Show stockpile locations on plans. | Locate earthen-material stockpile areas at least ts, sediment basins, perimeter sediment controls | | s and rodenticides in their original containers with the |
| retaining walls Rolled erosion control products with grass seed | available. | shown no other alternatives are reasonably | accidental poisoning. | for use, ingredients and first aid steps in case of sticides and rodenticides in areas where flooding is |
| LANTS te for the soils being exposed during | Protect stockpile with silt fence ins five feet from the toe of stockpile. Provide stable stone access point v | talled along toe of slope with a minimum offset of | possible or where they may or surface water. If a spill | y spill or leak into wells, stormwater drains, ground wate occurs, clean area immediately. |
| DWR List of Approved PAMS/Flocculants. lets to Erosion and Sediment Control Measures. | 4. Stabilize stockpile within the timef | rames provided on this sheet and in accordance ditional requirements. Soil stabilization is defined | 4. Do not stockpile these mat | erials onsite. |
| ons specified in the NC DWR List of Approved e with the manufacturer's instructions. | as vegetative, physical or chemical erosion on disturbed soils for temp | coverage techniques that will restrain accelerated porary or permanent control needs. | HAZARDOUS AND TOXIC WASTE 1. Create designated hazardou | us waste collection areas on-site. |
| nt of treated Stormwater before discharging iners that are kept under storm-resistant cover | | | 2. Place hazardous waste cont | ainers under cover or in secondary containment. micals, drums or bagged materials directly on the grour |
| ment structures. | | | | |
| NCG01 GROUND | STABILIZATION A | AND MATERIALS H | IANDLING | EFFECTIVE: 04/01 |
| RT III DKEEPING AND REPORTING | | PART III ORDKEEPING AND REPORTING | SELF-INSPECTI | PART III ON, RECORDKEEPING AND REPORTING |
| business hours in accordance with the table | SECTION B: RECORDKEEPING 1. E&SC Plan Documentation | | SECTION C: REPORTING | |
| tions would cause the safety of the inspection may be delayed until the next business day on | The approved E&SC plan as well as any ap | proved deviation shall be kept on the site. The late throughout the coverage under this permit. | 1. Occurrences that Must be Report Permittees shall report the follow (a) Visible sediment deposition | ving occurrences: |
| n addition, when a storm event of equal to or nal business hours, the self-inspection shall be next business day. Any time when inspections | | C plan shall be kept on site and available for | (b) Oil spills if: | |
| on Record. | Item to Document (a) Each E&SC measure has been installed | Documentation Requirements Initial and date each E&SC measure on a copy | They are 25 gallons or mo | re, ons but cannot be cleaned up within 24 hours, |
| records must loclude: | and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan. | of the approved E&SC plan on complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC | They cause sheen on surface | ice waters (regardless of volume), or f surface waters (regardless of volume). |
| rain gauge observations are made during weekend or riods, and no individual-day rainfail information is ecord the cumulative rain measurement for those un- | | plan. This documentation is required upon the initial installation of the E&SC measures or if | | |
| lays (and this will determine if a site inspection is lays on which no rainfail occurred shall be recorded as the permittee may use another rain-monitoring device | (b) A phase of grading has been completed. | the E&SC measures are modified after initial installation. Initial and date a copy of the approved E&SC | | ances in excess of reportable quantities under Section 3 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCI 43-215.85. |
| y the Division. ation of the measures inspected, d time of the Inspection, | (b) A phase of grading has been completed. | plan or complete, date and sign an inspection report to indicate completion of the | (d) Anticipated bypasses and un | anticipated bypasses. |
| I the person performing the inspection, on of whether the measures were operating | (c) Ground cover is located and installed | construction phase. Initial and date a copy of the approved E&SC | | ditions of this permit that may endanger health or the |
| ion of maintenance needs for the measure, ion, evidence, and date of corrective actions taken. ation of the discharge outfalls inspected, | in accordance with the approved E&SC plan. | plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications. | environment. | and its of this permit that may challinger health of the |
| d time of the inspection, I the person performing the inspection, e of indicators of stormwater pollution such as oil water or supported with a concentration | (d) The maintenance and repair requirements for all E&SC measures | Complete, date and sign an inspection report. | 2. Reporting Timeframes and Other After a permittee becomes awar | e Requirements The of an occurrence that must be reported, he shall contained in the shal |
| loating or suspended solids or discoloration, in of visible sediment leaving the site, ion, evidence, and date of corrective actions taken. | have been performed. (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 | the appropriate Division regiona other requirements listed below | l office within the timeframes and in accordance with th . Occurrences outside normal business hours may also b |
| dimentation is found outside site limits, then a record wing shall be made: taken to dean up or stabilize the sectment that has left | | report to indicate the completion of the corrective action. | reported to the Department's En 858-0368. | vironmental Emergency Center personnel at (800) |
| limits, Jon. evidence, and date of corrective actions taken, and ination as to the actions taken to control future | | | Occurrence Reporting Tir | neframes (After Discovery) and Other Requirements |
| · | | pove, the following items shall be kept on the | | hours, an oral or electronic notification. |
| m or wetland has increased visible sedimentation or a visible increased turbidity from the construction in a record of the following shall be made: | In addition to the E&SC plan documents al site and available for inspectors at all time | pove, the following items shall be kept on the | deposition in a • Within 7 c stream or wetland sediment a | |
| visible increased turbidity from the construction in a record of the following shall be made: ion, evidence and date of corrective actions taken, and of the required reports to the appropriate Division | In addition to the E&SC plan documents al site and available for inspectors at all time Division provides a site-specific exemption | bove, the following items shall be kept on the s during normal business hours, unless the based on unique site conditions that make | deposition in a stream or wetland Division st case-by-ca If the stream | <i>hours</i> , an oral or electronic notification. <i>alendar days</i> , a report that contains a description of the and actions taken to address the cause of the deposition. aff may waive the requirement for a written report on a se basis. Im is named on the <u>NC 303(d) list</u> as impaired for sediment- |
| visible increased turbidity from the construction in a record of the following shall be made: for, evidence and date of corrective actions taken, and of the required reports to the appropriate Division <u>Office per Part III, Section C, Item (2)(a) of this permit.</u> e of grading (installation of perimeter E&SC es, dearing and grubbing, installation of storm | In addition to the E&SC plan documents all site and available for inspectors at all time Division provides a site-specific exemption this requirement not practical: (a) This General Permit as well as the Cer (b) Records of inspections made during the formation of the second s | bove, the following items shall be kept on the s during normal business hours, unless the based on unique site conditions that make tificate of Coverage, after it is received. The previous twelve months. The permittee shall | deposition in a stream or wetland Division st case-by-ca If the streat related cau monitoring determine | <i>hours</i> , an oral or electronic notification. <i>alendar days</i> , a report that contains a description of the and actions taken to address the cause of the deposition. aff may waive the requirement for a written report on a se basis. Im is named on the <u>NC 303(d) list</u> as impaired for sediment- uses, the permittee may be required to perform additional g, inspections or apply more stringent practices if staff that additional requirements are needed to assure complianc |
| visible increased turbidity from the construction in a record of the following shall be made: ion, evidence and date of corrective actions taken, and of the required reports to the appropriate Division i Office per Part III, Section C, Item (2)(a) of this permit. se of grading (installation of perimeter E&SC | In addition to the E&SC plan documents all site and available for inspectors at all time Division provides a site-specific exemption this requirement not practical: (a) This General Permit as well as the Cer (b) Records of inspections made during the record the required observations on the Division or a similar inspection form the electronically-available records in lieu | bove, the following items shall be kept on the s during normal business hours, unless the based on unique site conditions that make tificate of Coverage, after it is received. The previous twelve months. The permittee shall he Inspection Record Form provided by the nat includes all the required elements. Use of of the required paper copies will be allowed if | deposition in a stream or wetlandWithin 7 c sediment a Division st case-by-caIf the stream related case monitoring determine with the fe(b) Oil spills and• Within 24 | <i>hours</i> , an oral or electronic notification. <i>alendar days</i> , a report that contains a description of the and actions taken to address the cause of the deposition. aff may waive the requirement for a written report on a se basis. Im is named on the <u>NC 303(d) list</u> as impaired for sediment- uses, the permittee may be required to perform additional g, inspections or apply more stringent practices if staff |
| visible increased turbidity from the construction in a record of the following shall be made: for, evidence and date of corrective actions taken, and of the recurred reports to the appropriate Division Diffice per Part III, Section C, Item (2)(a) of this permit. se of grading (installation of perimeter E&SC is, dearing and grubbing, installation of storm is facilities, completion of all land-disturbing construction or redevelopment, permanent cover). | In addition to the E&SC plan documents all site and available for inspectors at all time. Division provides a site-specific exemption this requirement not practical: (a) This General Permit as well as the Cer (b) Records of inspections made during the record the required observations on the Division or a similar inspection form the electronically-available records in lieu shown to provide equal access and ut 3. Documentation to be Retained for Three States and the set of the record for the record for the record for the record similar inspection for the electronically available records in lieu shown to provide equal access and ut | bove, the following items shall be kept on the s during normal business hours, unless the based on unique site conditions that make tificate of Coverage, after it is received. The previous twelve months. The permittee shall he Inspection Record Form provided by the nat includes all the required elements. Use of of the required paper copies will be allowed if ility as the hard-copy records. Years | deposition in a stream or wetland Within 7 c sediment a Division st case-by-ca If the streat related cat monitoring determine with the fe (b) Oil spills and release of hazardous substances per Item 1(b) (c) above | <i>hours</i> , an oral or electronic notification. <i>alendar days</i> , a report that contains a description of the and actions taken to address the cause of the deposition. aff may waive the requirement for a written report on a se basis. Im is named on the <u>NC 303(d) list</u> as impaired for sediment- uses, the permittee may be required to perform additional g, inspections or apply more stringent practices if staff that additional requirements are needed to assure complianc ederal or state impaired-waters conditions. <i>hours</i> , an oral or electronic notification. The notification |
| visible increased turbidity from the construction in a record of the following shall be made: for, evidence and date of corrective actions taken, and of the required reports to the appropriate Division <u>Office per Part BL Section C Item (2)(a) of this permit</u> e of grading (installation of perimeter E&SC es, dearing and grubbing, installation of storm i facilities, completion of all land-disturbing construction or redevelopment, permanent cover), intation that the required ground stabilization is have been provided within the required ne or an assurance that they will be provided as | In addition to the E&SC plan documents all site and available for inspectors at all time Division provides a site-specific exemption this requirement not practical: (a) This General Permit as well as the Cer (b) Records of inspections made during the record the required observations on the Division or a similar inspection form the electronically-available records in lieu shown to provide equal access and ut 3. Documentation to be Retained for Three V All data used to complete the e-NOI and all data | bove, the following items shall be kept on the s during normal business hours, unless the based on unique site conditions that make tificate of Coverage, after it is received. The previous twelve months. The permittee shall he Inspection Record Form provided by the hat includes all the required elements. Use of of the required paper copies will be allowed if ility as the hard-copy records. | deposition in a stream or wetlandWithin 7 c sediment a Division st case-by-caIf the stream related case monitoring determine with the feeIf the stream related case monitoring determine with the fee(b) Oil spills and release of hazardous substances per Item 1(b)-(c) aboveWithin 24 shall include location of substances per Item 1(b)-(c) above | <i>hours</i> , an oral or electronic notification. <i>alendar days</i> , a report that contains a description of the and actions taken to address the cause of the deposition. aff may waive the requirement for a written report on a se basis. Im is named on the <u>NC 303(d) list</u> as impaired for sediment- uses, the permittee may be required to perform additional g, inspections or apply more stringent practices if staff that additional requirements are needed to assure compliance ederal or state impaired-waters conditions. <i>hours</i> , an oral or electronic notification. The notification de information about the date, time, nature, volume and i the spill or release. It least ten days before the date of the bypass, if possible . I shall include an evaluation of the anticipated quality and |

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

off 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 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). sins shall be allowed only when all of the following criteria have been met:

ovided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal lan authority has approved these items,

n reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit, ith controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include ned dewatering tanks, weir tanks, and filtration systems,

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, heck dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and

ring treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

| EFFECTIVE: 04/01/19

(d) Unanticipated • Within 24 hours, an oral or electronic notification.

case-by-case basis.

quality and effect of the bypass. (e) Noncompliance • Within 24 hours, an oral or electronic notification.

122.41(m)(3)]

may endanger

environment[40]

CFR 122.41(l)(7)]

health or the

of this permit that



cordance with local bove item and in us barrier and within

here applicable. If a val authority for , use one of the two

tive curb or sidewalk ot be pumped into or ers. Liquid waste must

urface waters unless it ble. At a minimum,

which could receive nd install a stone

t within the project

vings and dispose of lize any disturbance

here flooding is drains, ground water

containment. lirectly on the ground.

VE: 04/01/19

ties under Section 311 Section 102 of CERCLA

anger health or the

orted, he shall contact accordance with the ess hours may also be

actices if staff d to assure compliance The notification

bypasses [40 CFR • Within 7 calendar days, a report that includes an evaluation of the with the conditions • Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not

been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a

NPDES GROUND STABILIZATION SCHEDULE

| SITE AREA DESCRIPTION | STABILIZATION TIME FRAME | STABILIZATION TIME FRAME EXCEPTIONS | AREAS ON THIS SITE |
|---|-----------------------------|---|---|
| PERIMETER DIKES, SWALES, DITCHES AND SLOPES | 7 DAYS | NONE | TEMPORARY DIVERSION DITCHES |
| HIGH QUALITY WATER (HQW) ZONES | 7 DAYS | NONE | 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 | NONE |
| SLOPES 3:1 OR FLATTER | 14 DAYS | 7–DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH | REMAINDER OF PROJECT AREA |
| ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1 | 14 DAYS | NONE (EXCEPT FOR PERIMETERS AND HQW ZONES) | INCLUDED W/ 3:1 OR FLATTER SLOPES |

| | TDAI F | | | TDALE, NC | | |
|------------|--|--|----------------------------|----------------------|-------------------------------|------------------------------|
| THE SITE C | CIVIL ENGINEERS . LANDSCAPE ARCHITECTS | THE SITE GROUP, PLLC. 1111 Oberlin Road | Raleigh, NC 27605-1136 USA | Office: 919.835.4787 | F _{ax:} 919.839.2255 | E Mail: SRN@thesitegroup.net |
| GROUP | E ARCHITECTS | | | | | |

CERT. NO.

353

NC ENGINEERING LICENSE NO. P-0803

| | CONSTRUCTION DRAWINGS FOR: ATLAS STARK KNIGHTD/ STATION MIXED-USE | 0 & 7790 KNIGHTDALE BLVD., KNIGHTDALE, ST. MATTHEW'S TOWNSHIP WAKE COUNTY |
|---------------------|---|--|
| | Drawn By Checked By | MRK SRN |
| | DATE: 12 JAN 202 REVISED: 121 FEB 212 APR 309 MAY 414 JUN 502 AUG 620 SEP | 2024 2024 2024 2024 2024 |
| IS RESERVED | CONSTRUC DRAWIN | |
| o, PLLC. ALL RIGHTS | CAROLINIAN NDPES P | |
| Site Group, PLLC. | | SKSCD |
| C) 2024 The | Dwg M | vo. E |

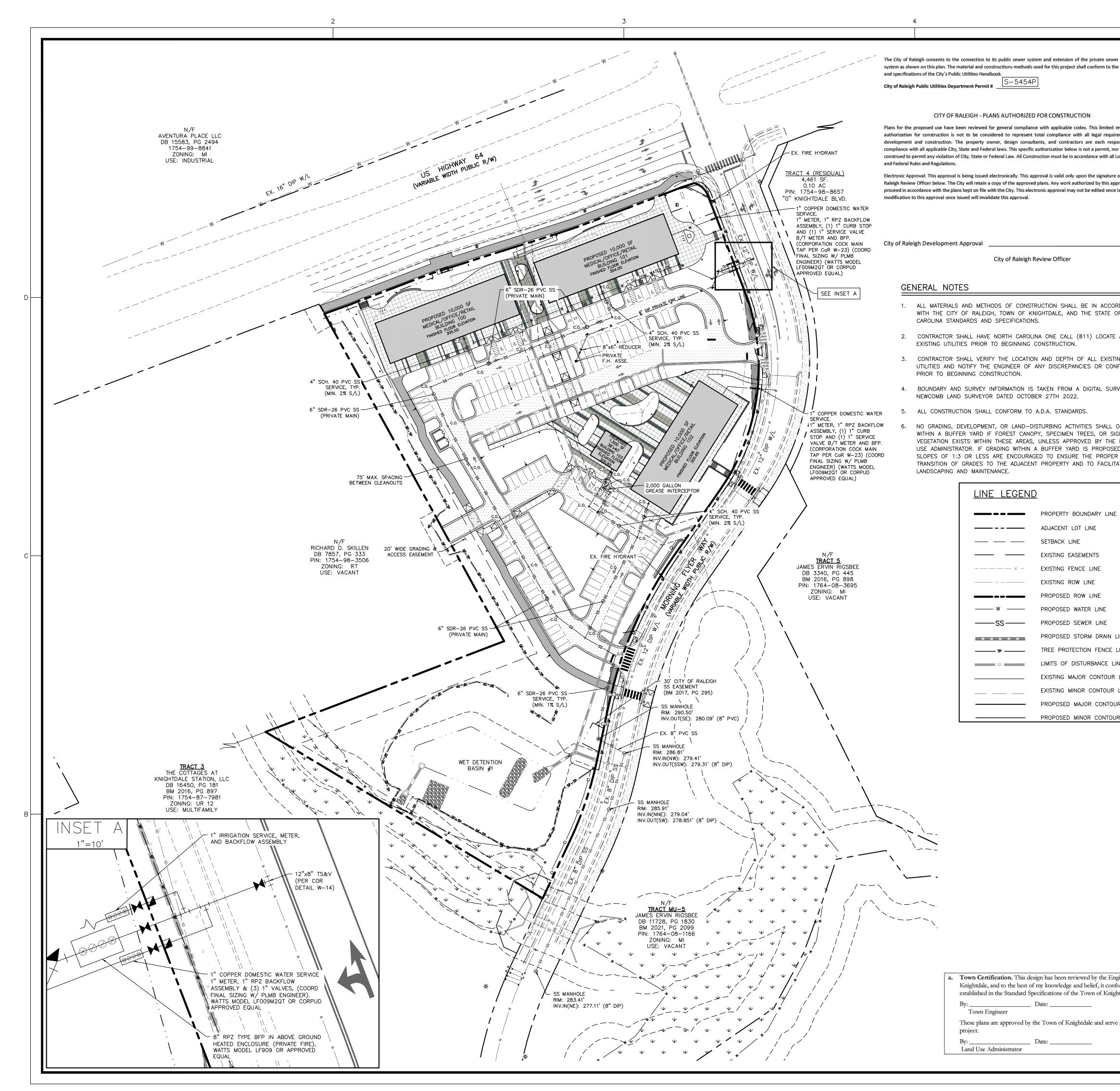
314

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

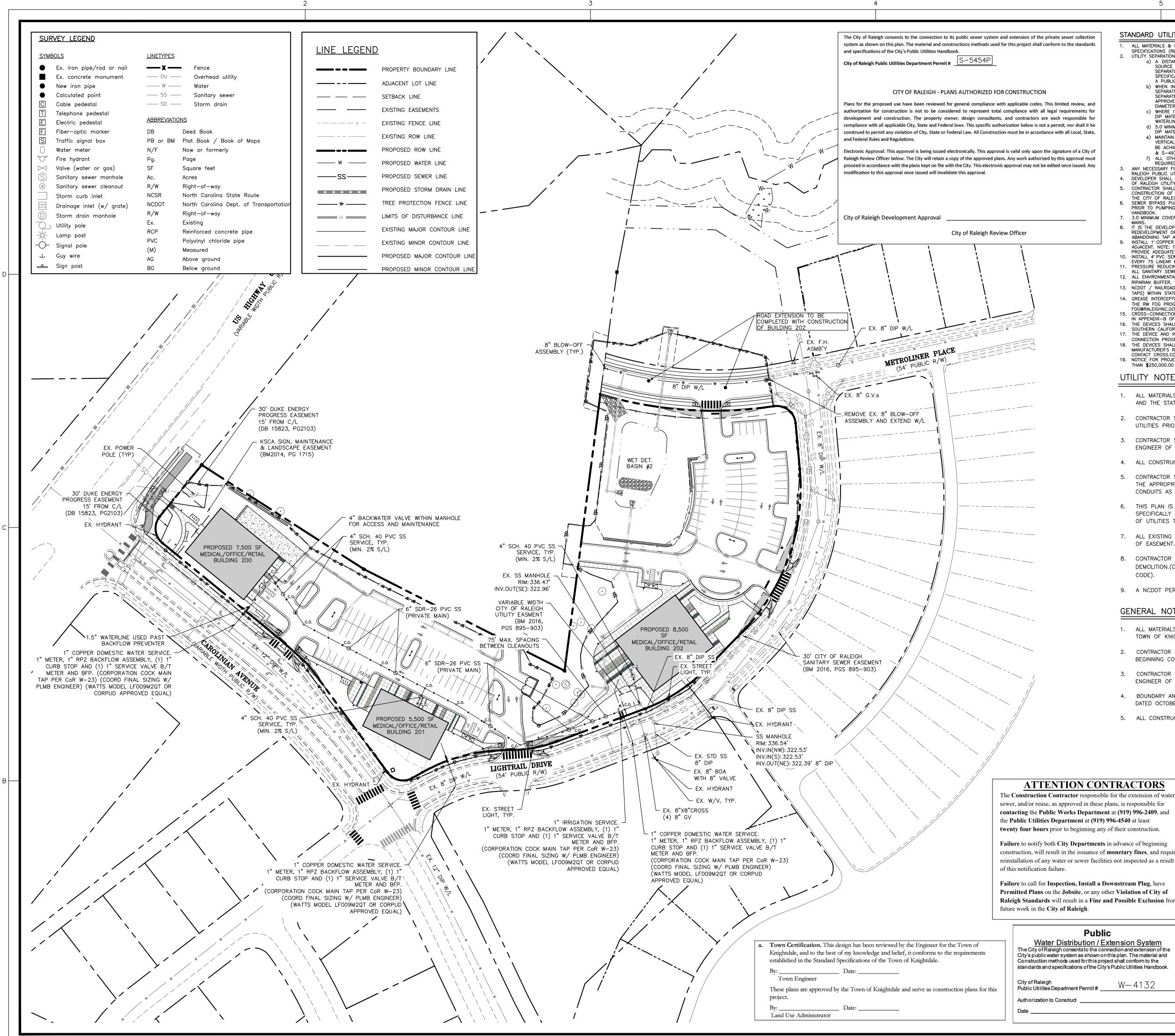
a. Town Certification. This design has been reviewed by the Engineer for the Town of

These plans are approved by the Town of Knightdale and serve as construction plans for this project.

By: _____ _____ Date: _____ Land Use Administrator



| er collection | ST/ | ANDARD UTILITY NOTES (AS APPLICABLE): | | S MOCHITECTURAL CAN D |
|---|----------|--|-------------|---|
| e standards | 1. | ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION). | | H CERT. NO. H H J 353 W |
| | 2. a) | UTILITY SEPARATION REQUIREMENTS: A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT | | PALEIGH, N.C. |
| review, and rements for consible for or shall it be Local, State, | b) | BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL. WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. | | NC ENGINEERING LICENSE NO. P-0803 |
| of a City of | c) | ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER. WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A | | HINTH CARO |
| proval must issued. Any | d) | WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10'ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER | | BEAL AL |
| | e) | FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER. MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE | | IOTYYZOZY |
| | f) | HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & S-49). ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED. | | |
| | 3. | ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION. | | |
| | 4. 5 | DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO OWNER FOR ANY WORK REQUIRED WITHIN AN EXISTING CITY OF RALEIGH UTILITY EASEMENT TRAVERSING PRIVATE PROPERTY. | 1 | |
| RDANCE | 5. | CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. | | |
| DF NORTH | 6. | 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS. | | |
| ALL | 7. | IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR | | |
| ING | 8. | EASEMENT PER CORPUD HANDBOOK PROCEDURE. INSTALL 1" COPPER WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT | (| 6 USA |
| IFLICTS | <u>^</u> | IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION PROVIDE ADEQUATE FLOW & PRESSURE/. | | AND Jacu |
| RVEY BY | | INSTALL 4" PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER | | 605 122255 605 605 72255 605 72255 605 72255 605 72255 700 700 700 700 700 700 700 700 700 7 |
| | | VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE. | | 000 B 200 B |
| OCCUR GNIFICANT | 11. | ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO | ſ | NGINE SRN SRN SRN |
| LAND | 12. | CONSTRUCTION. NCDOT/RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION. | | |
| R ATE | 13. | GREASE INTERCEPTOR/OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE RW FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A UC / BLDG PERMIT. | | CIVIL THE CIVIL A A A A A A A A A A A A A A A A A A A |
| | 14. | CONTACT (919)996–4516 OR FOG@RALEIGHNC.GOV FOR MORE INFORMATION. CROSS–CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASE ON DEGREE OF HEALTH HAZARD | | |
| | | INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN | | ш |
| : | | SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL | | |
| | | CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. A CERTIFICATE OF COMPLIANCE SHALL ALSO BE OBTAINED FROM THE RW CROSS-CONNECTION COORDINATOR FOR EACH DEVICE PRIOR | | TDAL DALE, NC NTY |
| | 4.5 | ISSUANCE OF A UC / BLDG PERMIT. CONTACT (919)996-5923 OR CROSS.CONNECTION@RALEIGHNC.GOV FOR MORE INFORMATION. | | |
| | 15. | NOTICE FOR PROJECTS WITH REPLACED OR OVERSIZED MAINS: IF THE CITY'S REIMBURSEMENT FOR AN OVERSIZED MAIN OR URBAN MAIN REPLACEMENT PROJECT IS \$250,000 OR GREATER – THE PROJECT MUST BE PUBLICLY BID. | | |
| | UT | ILITY NOTES | | WAK - UNI |
| | 1. | ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS. | | |
| LINE | 2. | CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES | | A WING |
| LINE | 3. | PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE | | CHTC CHTC CHTC TOV |
| | | ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION. | | |
| LINE | 4. 5. | ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS. CONTRACTOR SHALL COORDINATE THE LOCATION OF THE ELECTRIC, GAS AND TELEPHONE SERVICE WITH THE | | ATH ATTH ATTH |
| IR LINE IR LINE | 6. | APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL PROVIDE CONDUITS AS REQUIRED FOR THESE UTILITIES UNDER PAVED AREAS. THIS PLAN IS DIAGRAMMATIC AND REPRESENTS THE APPROXIMATE LOCATION OF UTILITIES UNLESS | | CONST ATL STA ST. MJ ST. MJ |
| | | SPECIFICALLY DIMENSIONED. THE CONTRACTOR SHALL COORDINATE THE ACTUAL AND PROPOSED LOCATION OF UTILITIES TO AVOID CONFLICTS. | | Drawn By MRK |
| | 7. | ALL EXISTING UTILITY SERVICES (UNUSED) SHALL BE ABANDONED AT TAP (MAIN) & REMOVED FROM ROW OF EASEMENT. | | Checked By SRN |
| | 8. | CONTRACTOR TO COMPLY WITH REQUIREMENTS FOR FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.(CHAPTER 14, 2012 NC FIRE CODE, NFPA 241 AND CHAPTER 33, 2012 NC BUILDING CODE). | | DATE: 12 JAN 2024 |
| | 9. | A NCDOT PERMIT IS REQUIRED PRIOR TO STARTING ANY WORKING IN THE NCDOT RIGHT OF WAY. | | REVISED: 121 FEB 2024 |
| ALLC | ONSTR | UCTION SHALL BE IN ACCORDANCE WITH ATTENTION CONTRACTORS | | 12 APR 2024 |
| | | sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Works Department at (919) 996-2409, and | | <u>∕3</u> 09 MAY 2024 <u>4</u> 14 JUN 2024 |
| | | the Public Utilities Department at (919) 996-4540 at least twenty four hours prior to beginning any of their construction. | | 602 AUG 2024 |
| | | Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require | | ▲ 20 SEP 2024 ▲ 14 OCT 2024 |
| | | 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 | RESERVED | CONSTRUCTION DRAWINGS |
| | | 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. | RIGHTS R | MORNING FLYER |
| | | | ALL | WAY |
| gineer for th forms to the | | | h, PLLC. | UTILITY PLAN |
| htdale. | - | UTILITY PLAN | Site Group, | Job Code ASKSCD |
| e as construe | ction pl | ans for this $SCALE: 1" = 60'$ (drawing scaled for 24x36 inch plots) | The | Dwg No. |
| | | | 2024 | SITE |
| | | | opyright © | 400 |
| | | | e e | |



| | LL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & PECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION) | S & WECHITECTURAL CON |
|------------------------|---|--|
| | TILITY SEPARATION REQUIREMENTS: a) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS, HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM | |
| | A PUBLIC WELL b) WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE | PALEIGH, N.C. |
| | DIAMETER C) WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10'ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS | NC ENGINEERING LICENSE NO. P-O |
| | d) 5.0° MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER e) MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18" MIN. | |
| | VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATION CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W41 & S-49) f) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION | TOP FESSIO |
| F | REQUIRED NY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF ALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION | SEAL 34981 |
| 5. 0 | EVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO OWNER FOR ANY WORK REQUIRED WITHIN AN EXISTING CITY OF RALEIGH UTILITY EASEMENT TRAVERSING PRIVATE PROPERTY ONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT ONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO | S NGINEEP |
| 6. S F | HE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT EWER BYPASS PUMPING — A BYPASS PLAN SEALED BY AN NC PROFESSIONAL ENGINEER SHALL BE PROVIDED TO RALEIGH WATER RIOR TO PUMPING OPERATIONS FOR APPROVAL. THE OPERATIONS AND EQUIPMENT SHALL COMPLY WITH THE PUBLIC UTILITIES ANDBOOK. | 1111 UEL R. 111 |
| 7. 3 N 8. 1 | .0'MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0'MINIMUM COVER IS REQUIRED ON ALL REUSE IAINS. IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN | |
| 9. II <i>9</i> . II | EDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES BANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE NOTALL 1"COPPER WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2'WATERLINE EASEMENT IMMEDIATELY DJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO | |
| 10. II E | ROVIDE ADEQUATE FLOW & PRESSURE \STALL 4" PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED VERY 75 LINEAR FEET MAXIMUM RESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI: BACKWATER VALVES ARE REQUIRED ON | |
| / 12. / F | LL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0'ABOVE THE NEXT UPSTREAM MANHOLE LL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY IPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION. | |
| 1 14. (| ICDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE APS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION. IREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY | |
| F 15. (II | HE RW FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A UC / BLDG PERMIT. CONTACT (919) 996–4516 OR OG©RALEIGHNC.GOV FOR MORE INFORMATION ROSS–CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED N APPENDIX–B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. | |
| 17. 1 | HE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS AND BE ON THE UNIVERSITY OF OUTHERN CALIFORNIA APPROVAL LIST. HE DEVICE AND INSTALLATION SHALL MEET THE GUIDELINES OF APPENDIX A — GUIDELINES AND REQUIREMENTS FOR THE CROSS ONNECTION PROGRAM IN RALEIGH'S SERVICE AREA. | U S O |
| 18. T M | HE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE IANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. ONTACT CROSS.CONNECTION@RALEIGHNC.GOV FOR MORE INFORMATION | 87-113 87-113 |
| 19. N 1 | IOTICE FOR PROJECTS THAT INVOLVE AN OVERSIZED MAIN OR URBAN MAIN REPLACEMENT. ANY CITY REIMBURSEMENT GREATER HAN \$250,000.00 MUST UNDERGO THE PUBLIC BIDDING PROCESS. | |
| 1. | LITY NOTES ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH | GROUP, CC 27600 CC 27600 CC 27600 |
| 2. | AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING | e: soo |
| 3. | UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE | CIVIL CIVIL 1111 CIVIL |
| 4. | ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS. | |
| 4 . 5. | CONTRACTOR SHALL COORDINATE THE LOCATION OF THE ELECTRIC, GAS AND TELEPHONE SERVICE WITH | Ш |
| | THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL PROVIDE CONDUITS AS REQUIRED FOR THESE UTILITIES UNDER PAVED AREAS. | , NC |
| 6. | THIS PLAN IS DIAGRAMMATIC AND REPRESENTS THE APPROXIMATE LOCATION OF UTILITIES UNLESS SPECIFICALLY DIMENSIONED. THE CONTRACTOR SHALL COORDINATE THE ACTUAL AND PROPOSED LOCATION OF UTILITIES TO AVOID CONFLICTS. | : NIGHTD, JSE KNICHTDALE, |
| 7. | ALL EXISTING UTILITY SERVICES (UNUSED) SHALL BE ABANDONED AT TAP (MAIN) & REMOVED FROM ROW OF EASEMENT. | |
| 8. | CONTRACTOR TO COMPLY WITH REQUIREMENTS FOR FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.(CHAPTER 14, 2012 NC FIRE CODE, NFPA 241 AND CHAPTER 33, 2012 NC BUILDING CODE). | |
| 9. | A NCDOT PERMIT IS REQUIRED PRIOR TO STARTING ANY WORKING IN THE NCDOT RIGHT OF WAY. | |
| GEN | IERAL NOTES | I DRAW ME MI MI DAF |
| 1. | ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH, TOWN OF KNIGHTDALE, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS. | |
| 2. | CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. | |
| 3. | CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION. | ATL STA 0 & √ |
| 4. | BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A DIGITAL SURVEY BY NEWCOMB LAND SURVEYOR DATED OCTOBER 27TH 2022. | Drawn |
| 5. | ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS. | By MI Checked By SI |
| | | DATE: |
| | | |

The Construction Contractor responsible for the extension of water sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Works Department at (919) 996-2409, and the Public Utilities Department at (919) 996-4540 at least

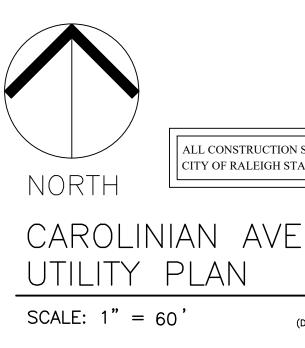
Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require

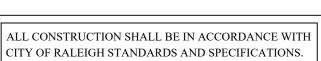
Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from

Public

Water Distribution / Extension System The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the stan dards and specifications of the City's Public Utilities Handbook.

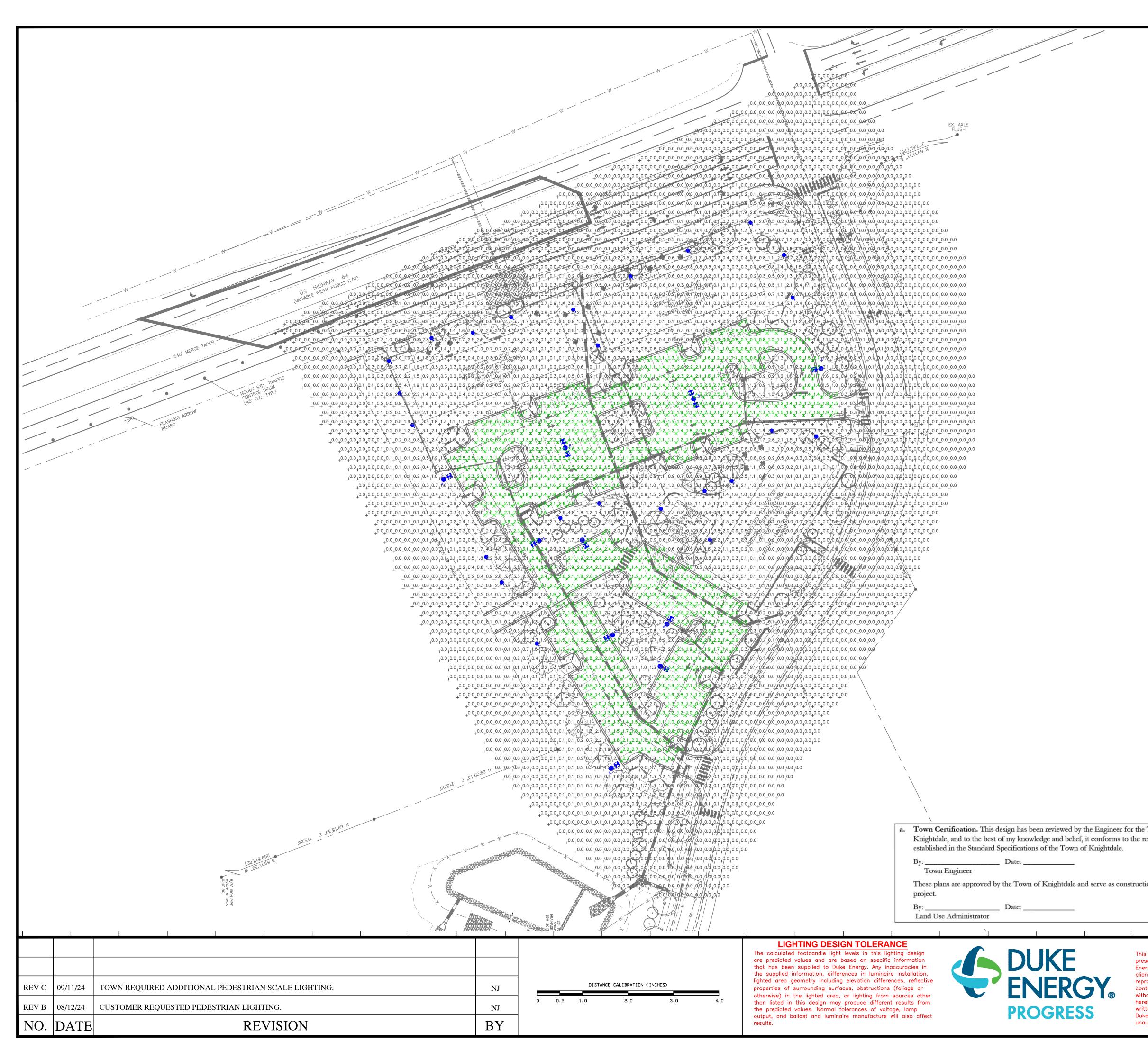
Public Utilities Department Permit # _____ W-4132

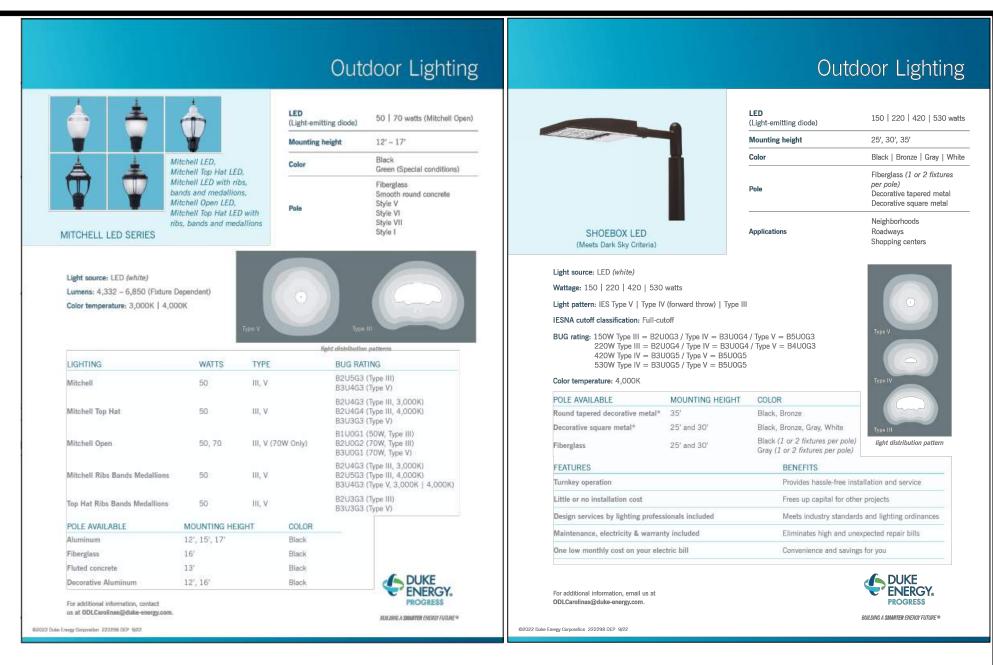




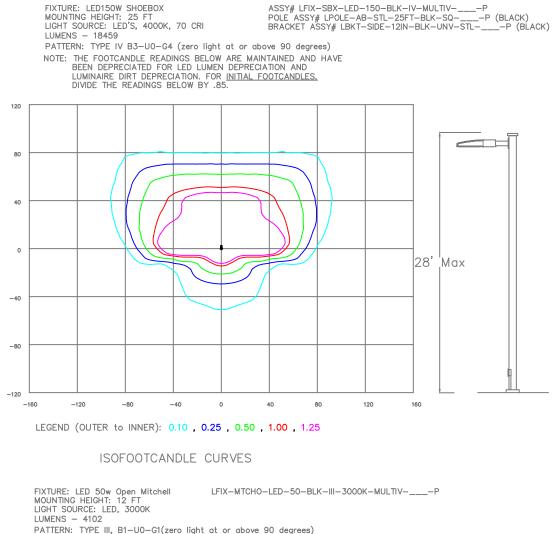
| .INIAN AVE 7 PLAN | | | | | | |
|----------------------|----------|--------|-----|-------|------|--------|
| = 60' | (DRAWING | SCALED | FOR | 24x36 | INCH | PLOTS) |

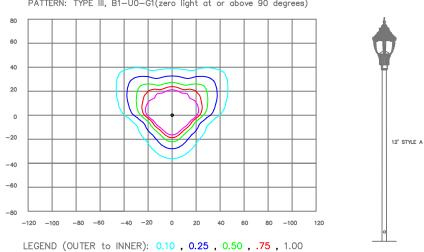
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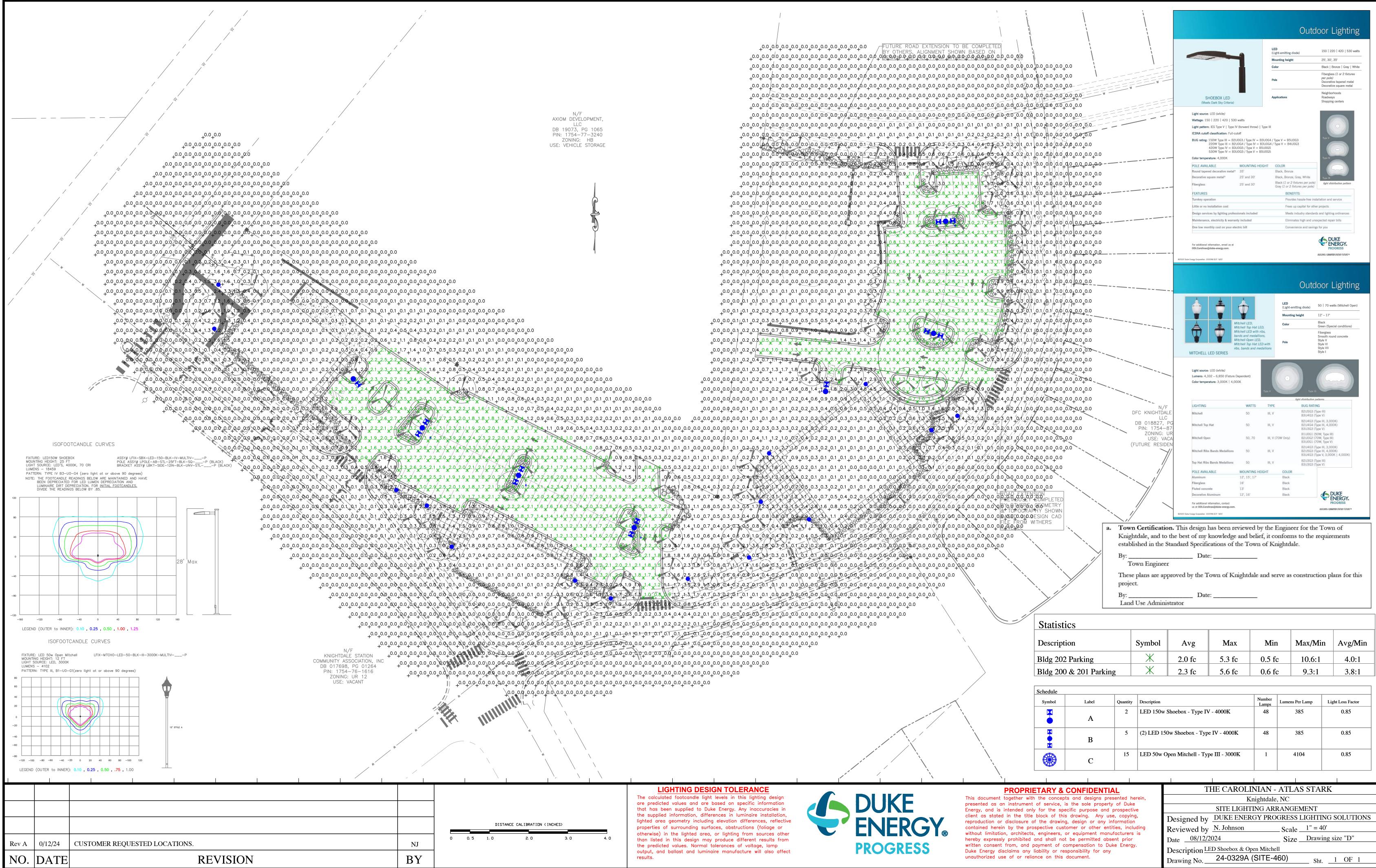
ISOFOOTCANDLE CURVES





Drawing No. 24-0068C (SITE-450) Sht. 1 OF 1

| | Stati | stics | | | | | | | | | |
|--|-------------|----------|----------------------------|--------------|--------------------------------|---|-----------------|-----------------|-----------|-------------|--|
| | Description | | Symbo | A A | vg | Max | Min | Max/Min | | Avg/Min | |
| | Parkin | g | \times | 1.7 | fc | 4.3 fc | 0.5 fc | 8.6:1 | | 3.4:1 | |
| or the Town of | Schedule | | | | | | | | | | |
| the requirements | Symbol | Label | Label Quantity Description | | | | Number Lamps | Lumens Per Lamp | Light Los | ss Factor | |
| | | A | 8 | LED 150w Sh | 10ebox - T | Ype IV - 4000K | 48 | 385 | 0 | .85 | |
| truction plans for this | | В | 2 | (2) LED 150w | V Shoebox - Type IV - 4000K 48 | | 48 | 385 | 0 | .85 | |
| | | С | 24 | LED 50w Ope | en Mitchel | ll - Type III - 3000K | 1 | 4104 | 0 | .85 | |
| | 1 | I | | 1 | | I | 1 | 1 | | 1 | |
| PROPI | | & CONFID | ENTIAL | | | | ATLA | AS STARK | | | |
| This document together | | | | | Knightdale, NC | | | | | | |
| presented as an instrument of service, is the sole property of Duke Energy, and is intended only for the specific purpose and prospective client as stated in the title block of this drawing. Any use, copying, reproduction or disclosure of the drawing, design or any information contained herein by the prospective customer or other entities, including without limitation, architects, engineers, or equipment manufacturers is hereby expressly prohibited and shall not be permitted absent prior written consent from, and payment of compensation to Duke Energy. Duke Energy disclaims any liability or responsibility for any | | | | | | SITE LIGHTING ARRANGEMENT | | | | | |
| | | | | | | Designed by DUKE ENERGY PROGRESS LIGHTING SOLUTIONS | | | | | |
| | | | | | | Reviewed by <u>N. Johnson</u> Scale $1'' = 50'$ | | | | | |
| | | | | | | 09/11/2024 | | Size_ | Drawin | ig size "D" | |
| | | | | | | ription <u>LED Shoe</u> | box | | | | |
| unauthorized use of or r | | | | | | ing No. 24 | -0068C (S | SITE-450) | Sht | 1 OF 1 | |



| 2 | | 3 | 4 | | 5 | |
|--|--|---|---|---|---|---|
| TUBE ARCHITECTURAL DS-WS05 LED Wall Mounts Image: transmission of the second secon | Evaluation Responsible Lighting* Fixture Type: Catalog Number: Project: Location: | <section-header></section-header> | Evaluation Responsible Lighting* Fixture Type: Catalog Number: Project: Location: | <section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header> | Exact Lighting® Responsible Lighting® Fixture Type: Catalog Number: Project: Location: | LUENSE NO. P- |
| The latest LED, Bluetooth, and DMX technology for precise color selection in an appealing cylindrical profile. Perfect for accent and wall wash lighting. Available in various light distribution and beam angle options. FEATURES • Full color gamut control through gradients of saturated colors from 1-100% • Tunable White (CCT) Range: 1650-8000K • Bluetooth control via ilumenight™ iOS App • High performance LED wall mounted light • Solid die cast aluminum construction | | The latest LED, Bluetooth, and DMX technology for precise color selection in an appealing cylindrical profile. Perfect for accent and wall wash lighting. Available in various light distribution and beam angle options. FEATURES • Full color gamut control through gradients of saturated colors from 1-100% • Tunable White (CCT) Range: 1650-8000K • Bluetooth control via ilumenight™ iOS App • High performance LED wall mounted light • Solid die cast aluminum construction • 5 year warranty | SPECIFICATIONS Input: Universal voltage 120V - 277V, 50/60Hz Controls: DMX512-A with advanced commissioning via Bluetooth. Bluetooth v4.0 - Configured with ilumenight™ iOS App for localized (within 150ft line of sight) groups of 4 luminaires or less. (DMX512-A hardwire recommended for high wireless signal interference environments). Dimming: 100%-1% in CCT & Color via DMX or Bluetooth control Light Source: High output 2 Step MacAdam Ellipse LEDs, 90+ CRI Rated life of 50,000 hours at L70 Finish: Electrostatically powder coated white, black, bronze and graphite Standards: IP65 rated, ETL & cETL wet location listed Operating Temperature: rection Color Temp Finish Electro Temp | The latest LED, Bluetooth, and DMX technology for precise color In selection in an appealing cylindrical profile. Perfect for accent and wall Co wash lighting. Available in various light distribution and beam angle options. Features • Full color gamut control through gradients of saturated colors from 1-100% Di • Tunable White (CCT) Range: 1650-8000K Lig • High performance LED wall mounted light St • Solid die cast aluminum construction Op | | 6 USA |
| Single DS-WS05 5" 31W F 840 A Away B Towar B Towar | Image: Construction graph BZ Bronze Is Image: Construction graph Image: Construction graph Is | Double DS-WD05 5" 31Wx2 F 840x2 - B Town wall C One. DS-WD05CC Example: DS-WD05-FA-CC-GH | Image: State | Single DS-WS05 5" 31W F 840 - A Away from the wall B Towards the wall B Towards the wall DS-WS05CC Example: DS-WS05-FA-CC-GH | Image: Big and the state give give give give give give give giv | LE THE SITE GROUP, PLLC. 1111 Oberlin Road Raleigh, NC 27605-113 Office: 919.835.4787 |
| waclighting.com Headquarters/Eastern Distribution Center Phone (800) 526.2588 44 Harbor Park Drive Fax (800) 526.2585 Port Washington, NY 11050 WAC Lighting retains the right to modify the design of our products at any | Central Distribution Center 1600 Distribution Ct 1750 Archibald Avenue Ontario, CA 91760 ime as part of the company's continuous improvement program. JUL 2018 CUBE ARCHITECTURAL DC-WS05 LED Wall Mounts ULED Wall Mounts | waclighting.com Headquarters/Eastern Distribution Center Phone (800) 526.2588 44 Harbor Park Drive Fax (800) 526.2585 Port Washington, NY 11050 WAC Lighting retains the right to modify the design of our products at any to WAC Lighting retains the right to modify the design of our products at any to Fixture Type: Catalog Number: Project: | Central Distribution Center 1600 Distribution Ct 1750 Archibald Avenue Ontario, CA 91760 ime as part of the company's continuous improvement program. JUL 2018 CUBE ARCHITECTURAL DC-WDOS LED Wall Mounts ULED Wall Mounts | waclighting.com Headquarters/Eastern Distribution Center Phone (800) 526.2588 44 Harbor Park Drive Fax (800) 526.2585 WAC Lighting retains the right to modify the design of our products at any time S WAC Lighting retains the right to modify the design of our products at any time S WAC Lighting retains the right to modify the design of our products at any time Fax Responsible Lighting* Fixture Type: | Central Distribution Center Western Distribution Center 1600 Distribution Ct 1750 Archibald Avenue Lithia Springs, GA 30122 Ontario, CA 91760 <i>The as part of the company's continuous improvement program. JUL 2018</i> MAX LUMEN LIGHTING NOTE: ACCENT/SECURITY LIGHTING NOT SOURCE LUMENS PER UDO SECT | |
| | The latest energy efficient LED technology in an appealing cubical profile delivers accent and wall wash lighting. Comes in various light distribution and beam angle options. Interpret technology in an appealing cubical profile delivers accent and wall wash lighting. Comes in various light distribution and beam angle options. FEATURES L • High performance exterior rated LED wall mount light Fixture can install upside down to alter light distribution • Solid aluminum construction 5 year warranty ORDERING NUMBER Beam | 11483 84 | The latest energy efficient LED technology in an appealing cubical profile delivers accent and wall wash lighting. Comes in various light distribution and beam angle options. Input Dimmediate options FEATURES Light High performance exterior rated LED wall mount light Finish Stand Opera ORDERING NUMBER Diameter Watt Beam Angle Color Temp CRI Lumen Straight up and down 18° 830S 3000K 85 1680 x 2 6 Straight up and down 18° 830S 3000K 85 1700 x 2 1 Lumen | Location:IFICATIONSIf:Universal voltage 120V - 277VAC, 50/60Hzming:Electronic low voltage (ELV) : 100% - 5% (120V only) $0 - 10V$: 100% - 1% (120-277V)Source:High output 3 Step Mac Adam Ellipse COB Rated life of 60,000 hours at L70h:Electrostatically powder coated, white, black, bronze and graphitedards:IP65 rated, UL & cUL wet location listedating Temp:-13°F to 122°F (-25°C to 50°C)CBCP Efficacy (Im/w) Light Distribution FinishS26522 62x 2 9151x2 67x2 8639x2 63x2 10126x2 74x2 1116x2 81x2S513x2 64x 2 5513x2 64x 2 5513x2 64x 2 5513x2 65x 2 | PEDESTRIAN SCALE LIGH a. Lighting Plan Certification: I hereb Lighting Plan shall be submitted by th Planning Department for approval pri lighting. The lighting plan shall design poles and shall be in compliance with Chapter 11 of the Town of Knightdal location should present a conflict with according to the approved construction | y certify I am the applicant and that a e utility provider to the Knightdale for to the installation of all required nate the proposed location of all light sections 8.10 and 16.8B as well as e UDO. If a proposed light pole |
| | Up or down 25° 8305* 3000K 85 2055 8305* 3500K 85 2255 8405* 4000K 85 2330 9275* 2700K 90 1725 F 8275* 2700K 85 1850 Straight 33° 9305* 3000K 90 1745 | 7426 86 4246 64 4557 69 4302 65 5043 76 5537 83 5719 86 67 72 N/A 68 91 0 67 72 91 0 67 72 91 0 67 72 91 0 67 72 88 0 88 0 | F 9275 2700K 90 1850 x 2 4 Straight up and down 33° 8305 3000K 85 1745 x 2 4 9305 3000K 85 1745 x 2 4 8355 3500K 85 2245 x 2 4 8405 4000K 85 2320 x 2 4 8355 3500K 85 2245 x 2 4 8405 4000K 85 2320 x 2 4 8 1815 x 2 9 F Away from N/A 830A 3000K 85 1815 x 2 9 245 x 2 1815 x 2 927A 2700K 90 1950 x 2 1840 x 2 155 x 2 185A 3500K 85 2370 x 2 1840 x 2 155 x 2 1835B 3000K 85 1840 x 2 1840 x 2 1840 x 2 1840 x 2 185B 3000K 85 1840 x 2 1840 x 2 185B 1815 x 2 1845 x 2 1845 x 2 1840 x 2 1840 x 2 1840 x 2 185B 1840 x 2 1840 x 2 </td <td>$\frac{367672}{7426\times2} = \frac{64\times2}{86\times2}$ $\frac{4246\times2}{4557\times2} = \frac{69\times2}{69\times2}$ $\frac{302\times2}{5537\times2} = \frac{65\times2}{65\times2}$ $\frac{67\times2}{72\times2} = \frac{67\times2}{72\times2}$ $\frac{67\times2}{91\times2} = \frac{67\times2}{91\times2}$ $\frac{67\times2}{91\times2} = \frac{67\times2}{91\times2}$ $\frac{67\times2}{91\times2} = \frac{67\times2}{91\times2}$ $\frac{67\times2}{72\times2} = \frac{67\times2}{91\times2} = \frac{67\times2}{91\times2} = \frac{67\times2}{91\times2}$ $\frac{67\times2}{72\times2} = \frac{67\times2}{91\times2} = \frac$</td> <td>be revised to comply with the Town of revisions are subject to Town of Knig Date Applicant I (officer authorized to take acknowled </td> <td>bit Knightdale UDO requirements. All htdale approval. dgments) do hereby certify that eared before me this day and is certificate. Witness my hand and tw) official seal this day of on Expires Wed by the Engineer for the Town of d belief, it conforms to the requirements Town of Knightdale. Job</td> | $\frac{367672}{7426\times2} = \frac{64\times2}{86\times2}$ $\frac{4246\times2}{4557\times2} = \frac{69\times2}{69\times2}$ $\frac{302\times2}{5537\times2} = \frac{65\times2}{65\times2}$ $\frac{67\times2}{72\times2} = \frac{67\times2}{72\times2}$ $\frac{67\times2}{91\times2} = \frac{67\times2}{91\times2}$ $\frac{67\times2}{91\times2} = \frac{67\times2}{91\times2}$ $\frac{67\times2}{91\times2} = \frac{67\times2}{91\times2}$ $\frac{67\times2}{72\times2} = \frac{67\times2}{91\times2} = \frac{67\times2}{91\times2} = \frac{67\times2}{91\times2}$ $\frac{67\times2}{72\times2} = \frac{67\times2}{91\times2} = \frac$ | be revised to comply with the Town of revisions are subject to Town of Knig Date Applicant I (officer authorized to take acknowled | bit Knightdale UDO requirements. All htdale approval. dgments) do hereby certify that eared before me this day and is certificate. Witness my hand and tw) official seal this day of on Expires Wed by the Engineer for the Town of d belief, it conforms to the requirements Town of Knightdale. Job |
| | DC-WS05Example: DC-WS05-F930A-WTwaclighting.comHeadquarters/Eastern Distribution CenterPhone (800) 526.2588Fax(800) 526.2585Port Washington, NY 11050 | Central Distribution Center Western Distribution Center 1600 Distribution Ct 1750 Archibald Avenue Lithia Springs, GA 30122 Ontario, CA 91760 time as part of the company's continuous improvement program. OCT 2018 | each 835C 3500K 85 2370 x 2 840C 4000K 85 2445 x 2 DC-WD05 Example: DC-WD05-F930A-WT waclighting.com Headquarters/Eastern Distribution Center Phone (800) 526.2588 44 Harbor Park Drive Fax (800) 526.2585 Port Washington, NY 11050 WAC Lighting retains the right to modify the design of our products at any to | 08x2 the wall 91x2 91x2 Central Distribution Center Western Distribution Center 1600 Distribution Ct 1750 Archibald Avenue Lithia Springs, GA 30122 Ontario, CA 91760 time as part of the company's continuous improvement program. OCT 2018 | By: Date: Town Engineer These plans are approved by the Town of Knigh project. By: Date: Land Use Administrator | |



LANDSCAPE REQUIREMENTS:

- 1. THE SITE SHALL BE STABILIZED AND SEEDED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- ALL MECHANICAL EQUIPMENT, WASTE DISPOSAL FACILITIES, SHALL BE SCREENED FROM PUBLIC VIEW. ALL SIDES OF PARKIN
 ALL ABOVE GROUND UTILITY EQUIPMENT AND FACILITIES ASSOCIATED WITH ON-SITE ELECTRIC, CABLE, TELEPHONE, GAS OR 7.4.1.3) THAT PERTAIN TO SEMI-OPAQUE SCREENS UP TO SIX FEET IN HEIGHT OR THE HEIGHT OF THE UTILITY, WHICHEVE ADDITIONALLY, ANY SIDE OF THE STRUCTURE HAVING A DOOR OR LOCK, THE PLANTINGS SHALL ALLOW FOR A 10' CLEARA
- EQUIPMENT MUST BE SCREENED FROM STREETS AND ADJACENT PROPERTIES. 4. ALL STORMWATER DEVICES SUCH AS CULVERTS, RIP RAP STRUCTURES, RETENTION AND DETENTION PONDS AND OTHER STO
- 5. ENTRY FEATURE WALLS REQUIRE FOUNDATION PLANTINGS AT THE BASE OF THE WALL.6. ALL PLANTING MEDIANS AND/OR ISLANDS IN VEHICULAR USE AREAS SHALL BE AT LEAST TEN FEET LONG BY TEN FEET WI
- PROPOSED AND SHOULD BE PLANTED ON SLOPES NOT TO EXCEED 1:4 VERTICAL TO HORIZONTAL DISTANCE.
- 7. THE SIZE OF THE PLANTING AREA AND SIZE OF PLANT MATERIAL AT MATURITY SHALL ALLOW FOR A 2.5' BUMPER OVERHA TO MINIMIZE DAMAGE BY VEHICLES TO PLANTS WITHIN THE LANDSCAPE AREA.
- 8. NO CANOPY TREE SHALL BE LOCATED WITHIN A ROADWAY RIGHT OF WAY OR WITHIN 5' OF A SIDEWALK, WITHIN 10' OF A
 9. ALL SHRUBS INSTALLED AS VEHICULAR USE SCREENING WILL BE MAINTAINED AS A CONTINUOUS HEDGE AT A MINIMUM HEI
- 10. WHERE EXISTING OR PROPOSED VEGETATION FAILS TO FUNCTION ADEQUATELY AS REQUIRED, THE TOWN OF KNIGHTDALE SI ACTUAL FIELD CONDITIONS.
- 11. UPON ESTABLISHMENT OF FINISHED GRADES AND PRIOR TO BEGINNING INSTALLATION OF ANY TREES, A SOIL AMENDMENT
- 12. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, A CERTIFIED STATEMENT SHALL BE PROVIDED TO TOWN STAFI AND/OR SUBDIVISION PLAN. THIS STATEMENT SHALL BE CERTIFIED BY A REGISTERED LANDSCAPE ARCHITECT, CERTIFIED A
- 13. THE PROPERTY OWNER OR DEVELOPER SHALL PROVIDE FOR CONTINUOUS MAINTENANCE OF THE LANDSCAPE AREAS AFTER THE APPROVED SITE AND/OR SUBDIVISION PLAN ARE MET. FAILURE TO CORRECT DEFICIENCIES IN A TIMELY MANOR SHALL
- 14. ALL FOUNDATION PLANTINGS SHALL BE DESIGNED TO TOWN OF KNIGHTDALE UDO SECTION 7.4 REQUIREMENTS. THE TOWN OF KNIGHTDALE SITE INSPECTOR RESERVES THE RIGHT TO REQUIRE ADDITIONAL PLANTINGS BASED ON ACTUAL
- 15. ALL IRRIGATION SYSTEM PLANS ARE SUBMITTED THROUGH THE BUILDING PERMIT PROCESS AND ARE EVALUATED SEPARATEL
- 16. LARGE EVERGREEN SHRUBS OR FENCING SHALL BE USED TO SCREEN HVAC EQUIPMENT FROM ADJOINING LOTS AND COMM
- 17. ALL LANDSCAPING, MULCHING AND SEEDING SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED SITE PLAN AND TH
- 18. REQUIRED BUFFER YARDS MUST HAVE AT LEAST 40% BUT NO MORE THAN 60% EACH OF CANOPY AND UNDERSTORY TREE 19. NOTHING SHALL BE PLANTED WITHIN AN UNDERGROUND OR OVERHEAD UTILITY EASEMENT OR A DRAINAGE EASEMENT WITHO
- 20. ANY TREES LOCATED WITHIN THE SIGHT TRIANGLES SHALL BE LIMBED UP TO A HEIGHT OF 8' ABOVE THE CURB LINE ELEN
- 21. DUKE ENERGY PLANTING REQUIREMENTS ACCORDING TO DUKE ENERGY, PLANTINGS WITHIN 20' OF OVERHEAD POWER LIN FROM POWER LINES MAY EXCEED 40' IN HEIGHT.

LANDSCAPE MAINTENANCE PLAN:

THE OWNERS OF THE PROPERTY AND THEIR AGENTS, HEIRS OR ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PR MAINTENANCE OF THE VEGETATION TO INCLUDE BUT NOT LIMITED TO:

- A. <u>FERTILIZATION:</u> FERTILIZE LAWNS TWICE PER YEAR (FEBRUARY 15-MARCH 15 AND AGAIN SEPTEMBER 1-OCTOBER 31) ACC
 B. <u>PRUNING:</u> PRUNING SHALL BE LIMITED TO REMOVAL OF DEAD WOOD OR BRANCHES FOR TREES OR FOR SIGHT DISTANCES, TO MAINTAIN THE NATURAL SHAPE OF THE PLANT EXCEPT FOR SHEARED HEDGES. THE OWNER OF ANY TREE OR SHRUB OF
- TO MAINTAIN THE NATURAL SHAPE OF THE PLANT EXCEPT FOR SHEARED HEDGES. THE OWNER OF ANY TREE OR SHRUB (THE LIGHT FROM ANY STREETLAMP OR OBSTRUCT THE VIEW OF ANY STREET INSTERSECTION AND SO THAT THERE SHALL E
- C. <u>PEST CONTROL:</u> PRE-EMERGENT WEED CONTROL FOR SHRUB BEDS MAY BE APPLIED IN FEBRUARY. CHEMICAL TREATMEN
- D. <u>MULCHING:</u> MULCHING SHALL BE MAINTAINED AT A DEPTH OF 2-3" IN SHRUB BEDS. MULCH SHALL BE REAPPLIED EVER
 E. <u>MOWING:</u> PRIMARY FESCUE LAWNS SHALL BE MAINTAINED AT A HEIGHT OF 3" AND SHALL BE MOWED APPROXIMATELY 30 -
- DURING THE GROWING SEASON TO MAINTAIN THE RECOMMENDED HEIGHT OF THE SPECIES OF TURF GRASS.
- F. PLANT PROTECTION: AVOID EXCESS INTRUSION INTO THE ROOT ZONE AREA OF ESTABLISHED PLANTINGS.

G. <u>WATERING:</u> IF ANY IRRIGATION SYSTEM IS UTILIZED, THE SYSTEM SHALL BE REGULATED TO PROVIDE APPROXIMATELY 1" O REMOVAL OF DISEASE INFESTED MATERIAL SHALL BE ALLOWED SO LONG AS REQUIRED SHRUBS ARE REPLACED AT THE REQUI FAILURE TO MAINTAIN ALL PLANTINGS IN ACCORDANCE WITH THIS PLAN MAY CONSTITUTE A VIOLATION OF THE LAND DEVELOPM

OVERALL SITE PLANT LIST

KEY QTY BOTANICAL NAME

| | KE I | QII | BUTANICAL NAME | | | | |
|---|-------|--|--|--|--|--|--|
| | CANOF | Y TRE | ES | | | | |
| LEGEND | NGG | 15 | NYSSA SYLVATICA 'GREEN GABLE' | | | | |
| | NRS | 16 | NYSSA SYLVATICA 'RED SPLYNDOR' | | | | |
| | PC | 8 | PISTACHIA CHINENSIS | | | | |
| SA SYLVATICA 'GREEN GABLE' | *PC | 10 | PISTACHIA CHINENSIS (SEE STREET TREE NOTE) | | | | |
| | QL | 26 | QUERCUS LYRATA | | | | |
| | QL | 3 | QUERCUS LYRATA | | | | |
| SA SYLVATICA 'RED SPLYNDOR' | TD | 2 | TAXODIUM DISTICHUM | | | | |
| ENT TREES) | UPB | 7 | ulmus parvifolia 'bosque' | | | | |
| | *UPB | | ULMUS PARVIFOLIA 'BOSQUE' (SEE STREET TREE NO | | | | |
| | ZVG | + | ZELKOVA SERRATA 'VILLAGE GREEN' | | | | |
| CHIA CHINENSIS | | | (TREES | | | | |
| | ABA | | ACER BUERGERIANUM 'AERYN' | | | | |
| | ABA | | ACER BUERGERIANUM 'AERYN' | | | | |
| CUS LYRATA | CV | | CHIONANTHUS VIRGINICUS | | | | |
| CUS LIRATA | MGA | | MAGNOLIA GRANDIFLORA 'ALTA' | | | | |
| | MLG | | | | | | |
| | PCT | | MAGNOLIA GRANDIFLORA 'LITTLE GEM' | | | | |
| DIUM DISTICHUM | | | PRUNUS CERASIFERA 'THUNDERCLOUD' | | | | |
| | PK | 5 | PRUNUS SERRULATA 'KWANZAN' | | | | |
| | SHRUB | - | Г | | | | |
| | ACC | - | ABELIA GRANDIFLORA 'CANYON CREEK' | | | | |
| IUS PARVIFOLIA 'BOSQUE' | ALR | - | ABELIA GRANDIFOLIA 'LITTLE RICHARD' | | | | |
| | GST | 183 | ILEX CRENATA 'GOLDEN SOFT TOUCH' | | | | |
| | HQA | | HYDRANGEA QUERCIFOLIA 'ALICE' | | | | |
| KOVA ERRATA 'VILLAGE GREEN' | ICS | 12 | ILEX CRENATA 'STEEDS' | | | | |
| | IGS | 103 | ILEX GLABRA 'SHAMROCK' | | | | |
| | IVS | 59 | ILEX VOMITORIA 'SCHILLINGS' | | | | |
| R BUERGERIANUM 'AERYN' | LCD | 43 | LOROPETALUM CHINENSE 'PURPLE DAYDREAM' | | | | |
| A BOERGERIANOM AERTN | LPD | 64 | LOROPETALUM CHINENSE 'PURPLE DIAMOND' | | | | |
| | MP | 8 | MYRICA PENSYLVANICA | | | | |
| NANTHUS VIRGINICUS | VSP | 66 | VIBURNUM TINUS 'SHADES OF PINK' | | | | |
| | GRASS | ËS | | | | | |
| NDIFLORA 'ALTA' | AGO | 900 | ACORUS GRAMINEUS 'OGON' | | | | |
| NOLIA GRANDIFLORA 'LITTLE GEM' | MWC | 24 | MUHLENBERGIA CAPILLARIS 'WHITE CLOUD' | | | | |
| | NT | 372 | NASSELLA TENUISSIMA | | | | |
| NUS CERASIFERA 'THUNDERCLOUD' | PVS | 15 | PANICUM VIRGATUM 'SHENANDOAH' | | | | |
| | **FOR | ALL F | L Plantings within or overhanging a sight distan | | | | |
| INUS SERRULATA 'KWANZAN' | | | | | | | |
| | LAN | DSC | APE REQUIREMENT CALCULATIONS: | | | | |
| LIA GRANDIFLORA 'CANYON CREEK' | | | | | | | |
| LIA GRANDIFOLIA 'LITTLE RICHARD' | TYPE | | A BUFFER REQUIREMENTS PER 100 LINEAR FEET OF TREES, 2 UNDERSTORY TREES, 20 SHRUBS | | | | |
| RANGEA QUERCIFOLIA 'ALICE' | | | YPE A VUA BUFFER PROPOSED | | | | |
| CRENATA 'GOLDEN SOFT TOUCH' | 6.15 | (3) = | 19 CANOPY TREES REQUIRED/PROVIDED | | | | |
| CRENATA 'STEEDS' | | | 13 UNDERSTORY TREES REQUIRED/PROVIDED | | | | |
| GLABRA 'SHAMROCK' | 6.15 | (20) = | = 123 SHRUBS REQUIRED/PROVIDED | | | | |
| VOMITORIA 'SCHILLINGS' | TYPE | C BUI | FFER REQUIREMENTS PER 100 LINEAR FEET OF BUFF | | | | |
| VIRGINICA 'LITTLE HENRY | 5 CA | ANOPY | TREES, 5 UNDERSTORY TREES, 25 SHRUBS | | | | |
| OPETALUM CHINENSE 'PURPLE DAYDREAM' | | 750 LF. TYPE C BUFFER PROPOSED | | | | | |
| OPETALUM CHINENSE 'PURPLE DIAMOND' | | 7.5(5) = 38 CANOPY TREES REQUIRED/PROVIDED 7.5(5) = 38 UNDERSTORY TREES REQUIRED/PROVIDED | | | | | |
| | | | 188 SHRUBS REQUIRED/PROVIDED | | | | |
| CA PENSYLVANICA JRNUM TINUS 'SHADES OF PINK' | | , | | | | | |
| JRINUM TINUS SHADES OF PINK | 1 CA | <u>NOPY</u> | EE REQUIREMENT PER 40 LINEAR FEET OF FRONTAGE TREE @ 40' O.C. | | | | |
| RUS GRAMINEUS 'OGON' | 1 0, | | | | | | |
| | | | FLYER WAY: 988 LF. OF FRONTAGE - 2 ENTRY DRIV | | | | |
| HLENBERGIA CAPILLARIS 'WHITE CLOUD' | | | 23 STREET TREES REQUIRED/22 PROVIDED DUE TO S. ONE ADDITIONAL QUERCUS LYRATA (QL) HAS BEE | | | | |
| ELLA TENUISSIMA | | | SLAND ON SITE. | | | | |
| | | | | | | | |
| ICUM VIRGATUM 'SHENANDOAH' | | | E BOULEVARD: 510 LF. OF FRONTAGE 13 STREET TREES REQUIRED/PROVIDED | | | | |
| | | | | | | | |
| | | | | | | | |

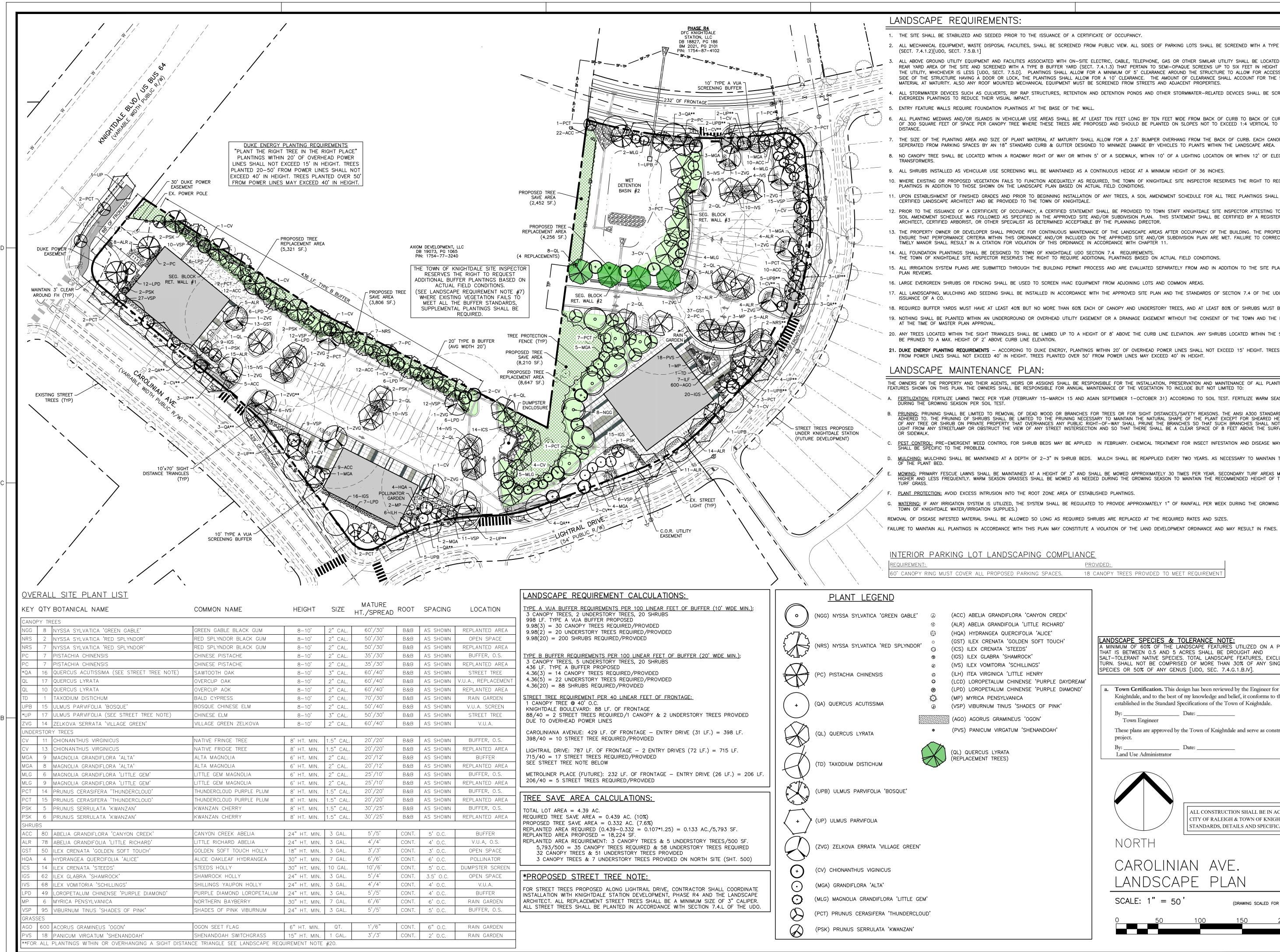
| | | | | | | | | TE GROUD |
|--|---|--|---|---|---|--|--|--|
| OR OTHER SIM IEVER IS LESS | IALL BE SCREENED WITH A TYPE A BUFF IILAR UTILITY SHALL BE LOCATED IN THE [UDO, SECT. 7.5.D]. PLANTINGS SHALL AMOUNT OF CLEARANCE SHALL ACCOUNT | SIDE OF REAR Y | ARD AREA O | F THE SITE AND S ' CLEARANCE ARO | UND THE S | TRUCTURE TO A | LOW FOR ACCESS. | CS K M CORT OF THE CAROLINE |
| STORMWATER-RELATED DEVICES SHALL BE SCREENED WITH EVERGREEN PLANTINGS TO REDUCE THEIR VISUAL IMPACT. | | | | | | | | |
| WIDE FROM B | BACK OF CURB TO BACK OF CURB, WITH | A MINIMUM OF 3 | 300 SQUARE | FEET OF SPACE I | PER CANOP | Y TREE WHERE | HESE TREES ARE | NC ENGINEERING LICENSE NO. P-0803 |
| RHANG FROM T | HE BACK OF CURB. EACH CANOPY TREE | SHALL BE SEPE | RATED FROM | PARKING SPACES | BY AN 18' | " STANDARD CUR | B & GUTTER DESIGNED | |
| | OCATION OR WITHIN 12' OF ELECTRICAL | TRANSFORMERS. | | | | | | HOR LINDSCA |
| HEIGHT OF 36 SITE INSPECTO | INCHES. OR RESERVES THE RIGHT TO REQUIRE SI | UPPLEMENTAL PL4 | ANTINGS IN A | ddition to those | E SHOWN O | N THE LANDSCAF | PE PLAN BASED ON | * 1419 |
| TAFF KNIGHTDAL O ARBORIST, OF TER OCCUPANCY | FOR ALL TREE PLANTINGS SHALL BE PRE LE SITE INSPECTOR ATTESTING TO THE FA R OTHER SPECIALIST AS DETERMINED AC Y OF THE BUILDING. THE PROPERTY OWN A CITATION FOR VIOLATION OF THIS ORI | ACT THAT THE SC CEPTABLE BY THE NER SHALL ENSUF | IL AMENDMEN PLANNING I RE THAT PERI | NT SCHEDULE WAS DIRECTOR. FORMANCE CRITER | 5 FOLLOWED | AS SPECIFIED I | N THE APPROVED SITE | DOKOT 202 |
| AL FIELD COND TELY FROM AN OMMON AREAS. | ITIONS. ID IN ADDITION TO THE SITE PLAN AND I | BUILDING PLAN RI | EVIEWS. | | | | | |
| THE STANDARI REES, AND AT THOUT THE CO ELEVATION. ANY | DS OF SECTION 7.4 OF THE UDO PRIOR LEAST 80% OF SHRUBS MUST BE EVER INSENT OF THE TOWN AND THE EASEMEN I SHRUBS LOCATED WITHIN THE SITE TRIV NOT EXCEED 15' INHEIGHT. TREES PLAN | GREENS. IT HOLDER AT TH ANGLES SHALL BE | E TIME OF N PRUNED TC | A MAX. HEIGHT | OF 2' ABOV | | | I A CAPE ARCHITECT NDSCAPE ARCHITECT 136 USA |
| ACCORDING TO ES/SAFETY RE IB ON PRIVATE L BE A CLEAR ENT FOR INSEC FRY TWO YEAR | AND MAINTENANCE OF ALL PLANTINGS AN SOIL TEST. FERTILIZE WARM SEASON GR ASONS. THE ANSI A300 STANDARDS SHO PROPERTY THAT OVERHANGES ANY PUB SPACE OF 8 FEET ABOVE THE SURFAC CT INFESTATION AND DISEASE MAY BE AF RS. AS NECESSARY TO MAINTAIN THE AVE YEAR. SECONDARY TURF AREAS MAY BE | ASSES ONCE DUP ULD BE ADHERED LIC RIGHT-OF-WA E OF THE STREET PPLIED AND SHAL RAGE DEPTH OF | RING THE GRO TO. THE PRO Y SHALL PRO G OR SIDEWAN L BE SPECIFO THE PLANT E | DWING SEASON PE RUNING OF SHRUB JNE THE BRANCHE LK. C TO THE PROBLI BED. | ER SOIL TES ES SHALL BI ES SO THAT EM. | ST. E LIMITED TO TH SUCH BRANCHE | E PRUNING NECESSARY S SHALL NOT OBSTRUCT | ENGINEERS - LA ENGINEERS - LA SITE GROUP, PLLC Oberlin Road gh, NC 27605-1 e: 919.835.4787 919.839.2255 ii: SRN@thesitegr |
| UIRED RATES A | PER WEEK DURING THE GROWING SEASO AND SIZES. NCE AND MAY RESULT IN FINES. COMMON NAME | n. (pending to' HEIGHT | wn of knigh SIZE | itdale water/irr MATURE HT./SPREAD | | · | LOCATION | DALE E, NC |
| | GREEN GABLE BLACK GUM | 8–10' | 2" CAL. | 60'/30' | B&B | AS SHOWN | BUFFER | IIGHTD SE KNIGHTDALE KE COUNTY |
| | RED SPLYNDOR BLACK GUM CHINESE PISTACHE | 8–10' 8–10' | 2" CAL. 2" CAL. | 50'/30' 35'/30' | B&B B&B | AS SHOWN AS SHOWN | O.S., REPLACEMENT STREET TREE, O.S. | |
| OTE) | CHINESE PISTACHE OVERCUP OAK | 8–10' 8–10' | 3" CAL. 2" CAL. | 35'/30' 60'/40' | B&B B&B | AS SHOWN AS SHOWN | STREET TREE V.U.A. | ₩ C ⊃ |
| | OVERCUP OAK BALD CYPRESS | 8–10' 8–10' | 2" CAL. 2" CAL. | 60'/40' 70'/30' | B&B B&B | AS SHOWN AS SHOWN | REPLANTED AREA RAIN GARDEN | |
| TREE NOTE) | BOSQUE CHINESE ELM BOSQUE CHINESE ELM | 8–10' 8–10' | 2" CAL. 3" CAL. | 60'/40' 60'/40' | B&B B&B | AS SHOWN AS SHOWN | STREET TREE | |
| | VILLAGE GREEN ZELKOVA | 8-10' | 2" CAL. | 60'/40' | B&B | AS SHOWN | V.U.A. | TOW TOW |
| | AERYN TRIDENT MAPLE AERYN TRIDENT MAPLE NATIVE FRINGE TREE | 8' HT. MIN. 8' HT. MIN. 8' HT. MIN. | 1.5" CAL. 1.5" CAL. 1.5" CAL. | 20'/30' 20'/30' 20'/20' | B&B B&B B&B | AS SHOWN AS SHOWN AS SHOWN | TREE WELLS REPLANTED AREA BUFFER, O.S. | ICTION DRA S STA ION M 0 KNIGHTD THEW'S TOV |
| | ALTA MAGNOLIA | 6' HT. MIN. 6' HT. MIN. | 2" CAL. 2" CAL. | 20'/12' 25'/10' | B&B B&B | AS SHOWN AS SHOWN | BUFFER BUFFER, O.S. | |
| | THUNDERCLOUD PURPLE PLUM KWANZAN CHERRY | 8' HT. MIN. 8' HT. MIN. | 1.5" CAL. | 20'/20' 30'/25' | B&B B&B | AS SHOWN AS SHOWN | BUFFER, O.S. OPEN SPACE | |
| | CANYON CREEK ABELIA | 24" HT. MIN. | 3 GAL. | 5'/5' | CONT. | 5' 0.C. | BUFFER | ST ST ST ST ST ST |
| | LITTLE RICHARD ABELIA GOLDEN SOFT TOUCH HOLLY | 24" HT. MIN. 18" HT. MIN. | 3 GAL. 3 GAL. | 4'/4' 3'/3' | CONT. CONT. | 4' O.C. 3' O.C. | V.U.A, O.S. OPEN SPACE | Drawn By JHJ |
| | ALICE OAKLEAF HYDRANGEA STEEDS HOLLY | 30" HT. MIN. 30" HT. MIN. | 7 GAL. 10 GAL. | 6'/6' 10'/6' | CONT. CONT. | 6'0.C. 5'0.C. | POLLINATOR DUMPSTER SCREEN | Checked By SRN |
| | SHAMROCK HOLLY SHILLINGS YAUPON HOLLY | 24" HT. MIN. 24" HT. MIN. | 3 GAL. 3 GAL. | 5'/4' 4'/4' | CONT. CONT. | 3.5' O.C. 4' O.C. | OPEN SPACE V.U.A. | DATE: |
| .M' | PURPLE DAYDREAM LOROPETALUM | 24" HT. MIN. | 3 GAL. | 3'/4' | CONT. | 3' O.C. | BUFFER, O.S. | 12 JAN 2024 |
| , | PURPLE DIAMOND LOROPETALUM | 24" HT. MIN. 30" HT. MIN. | 3 GAL. 7 GAL. | 5'/5' 6'/6' | CONT. CONT. | 4' O.C. 6' O.C. | BUFFER RAIN GARDEN | _ REVISED: |
| | SHADES OF PINK VIBURNUM | 24" HT. MIN. | 3 GAL. | 5'/5' | CONT. | 5' O.C. | BUFFER, O.S. | 1 21 FEB 2024 |
| | OGON SEET FLAG WHITE CLOUD MUHLY GRASS | 6"HT.MIN. 18"HT.MIN. | QT. 3 GAL. | 1'/6" 4'/3' | CONT. | 6" O.C. 2.5' O.C. | RAIN GARDEN OPEN SPACE | <u>2</u> 12 APR 2024 <u>3</u> 14 JUN 2024 |
| | MEXICAN FEATHER GRASS | 12" HT. MIN. 15" HT. MIN. | 3 GAL. 1 GAL. | 2'/2' | CONT. | 2.3 0.0. 1.5' 0.C. 2' 0.C. | OPEN SPACE RAIN GARDEN | - <u>4</u> 02 AUG 2024 |
| T DISTANCE | TRIANGLE SEE LANDSCAPE REQUIRE | | | . , . | 2.5.111. | | | |
| ONS: | | | | | | | | |
| | FER (10' WIDE MIN.): | | | CITY OF R | ALEIGH & | TOWN OF KNIG | CCORDANCE WITH HTDALE DESIGN | |
| D <u>OF BUFFER (</u> | (<u>30' WIDE_MIN.)</u> : | | | | סט, DETAII | LS AND SPECIFI | LATIONS. | MORNING |
|) | · · · · · · · · · · · · · · · · · · · | NOF | RTH | | | | | FLYER WAY LANDSCAPE PLAN |
| RONTAGE: | | MO | RNIN | NG FL | YEF | r WA` | Ý | Job ASKSCD |
| | | | NDS(| CAPE | PLA | ١N | | E Dwg No. |

Y DRIVES (65 LF) = 923 LF. UE TO UTILITY, DRAINAGE & STORMWATER AS BEEN ADDED TO THE LARGE CENTER

SCALE: 1" = 50' (DRAW

(DRAWING SCALED FOR 24×36 INCH PLOTS)

SITE



| | LANDSCAPE REQUIREMENT CALCULATIONS: | PLANT LEGEND |
|---------------|--|---|
| | TYPE A VUA BUFFER REQUIREMENTS PER 100 LINEAR FEET OF BUFFER (10' WIDE MIN.): 3 CANOPY TREES, 2 UNDERSTORY TREES, 20 SHRUBS 998 LF. TYPE A VUA BUFFER PROPOSED | (NGG) NYSSA SYLVATICA 'GREEN GABLE' (ACC) ABELIA |
| LANTED AREA | 9.98(3) = 30 CANOPY TREES REQUIRED/PROVIDED 9.98(2) = 20 UNDERSTORY TREES REQUIRED/PROVIDED | ⊗ (ALR) ABELIA |
| PEN SPACE | 9.98(2) = 200 SHRUBS REQUIRED/PROVIDED 9.98(20) = 200 SHRUBS REQUIRED/PROVIDED | (HQA) HYDRA |
| LANTED AREA | | (RRS) NYSSA SYLVATICA 'RED SPLYNDOR' (GST) ILEX C |
| UFFER, O.S. | TYPE B BUFFER REQUIREMENTS PER 100 LINEAR FEET OF BUFFER (20' WIDE MIN.): | (IGS) ILEX GI |
| LANTED AREA | 3 CANOPY TREES, 5 UNDERSTORY TREES, 20 SHRUBS | (IVS) ILEX VO |
| TREET TREE | 436 LF. TYPE A BUFFER PROPOSED 4.36(3) = 14 CANOPY TREES REQUIRED/PROVIDED | (PC) PISTACHIA CHINENSIS |
| , REPLACEMENT | 4.36(5) = 22 UNDERSTORY TREES REQUIRED/PROVIDED | |
| LANTED AREA | 4.36(20) = 88 SHRUBS REQUIRED/PROVIDED | (LPD) LOROP |
| AIN GARDEN | STREET TREE REQUIREMENT PER 40 LINEAR FEET OF FRONTAGE: | (MP) MYRICA |
| U.A. SCREEN | 1 CANOPY TREE @ 40' O.C. KNIGHTDALE BOULEVARD: 88 LF. OF FRONTAGE | (+) (QA) QUERCUS ACUTISSIMA (VSP) VIBURI |
| TREET TREE | 88/40 = 2 STREET TREES REQUIRED/1 CANOPY & 2 UNDERSTORY TREES PROVIDED | |
| V.U.A. | DUE TO OVERHEAD POWER LINES | (AGO) AGORL |
| | CAROLINIANA AVENUE: 429 LF. OF FRONTAGE - ENTRY DRIVE (31 LF.) = 398 LF. | (QL) QUERCUS LYRATA * (PVS) PANICI |
| UFFER, O.S. | 398/40 = 10 STREET TREE REQUIRED/PROVIDED | |
| LANTED AREA | LIGHTRAIL DRIVE: 787 LF. OF FRONTAGE – 2 ENTRY DRIVES (72 LF.) = 715 LF. | |
| BUFFER | 715/40 = 17 STREET TREES REQUIRED/PROVIDED | (QL) QUERCU (REPLACEMEN |
| LANTED AREA | SEE STREET TREE NOTE BELOW | (TD) TAXODIUM DISTICHUM |
| UFFER, O.S. | METROLINER PLACE (FUTURE): 232 LF. OF FRONTAGE - ENTRY DRIVE (26 LF.) = 206 LF. | |
| LANTED AREA | 206/40 = 5 STREET TREES REQUIRED/PROVIDED | Satt |
| UFFER, O.S. | | (UPB) ULMUS PARVIFOLIA 'BOSQUE' |
| LANTED AREA | TREE SAVE AREA CALCULATIONS: | |
| UFFER, O.S. | TOTAL LOT AREA = 4.39 AC. | |
| LANTED AREA | REQUIRED TREE SAVE AREA = 0.439 AC. (10%) | + (UP) ULMUS PARVIFOLIA |
| | PROPOSED TREE SAVE AREA = 0.332 AC. (7.6%) REPLANTED AREA REQUIRED (0.439-0.332 = 0.107*1.25) = 0.133 AC./5,793 SF. | |
| BUFFER | REPLANTED AREA PROPOSED = 18,224 SF. | |
| V.U.A, O.S. | REPLANTED AREA REQUIREMENT: 3 CANOPY TREES & 5 UNDERSTORY TREES/500 SF. 5,793/500 = 35 CANOPY TREES REQUIRED & 58 UNDERSTORY TREES REQUIRED | (ZVG) ZELKOVA ERRATA 'VILLAGE GREEN' |
| PEN SPACE | 32 CANOPY TREES & 51 UNDERSTORY TREES PROVIDED | |
| POLLINATOR | 3 CANOPY TREES & 7 UNDERSTORY TREES PROVIDED ON NORTH SITE (SHT. 500) | |
| PSTER SCREEN | | (CV) CHIONANTHUS VIGINICUS |
| PEN SPACE | *PROPOSED STREET TREE NOTE: | |
| V.U.A. | FOR STREET TREES PROPOSED ALONG LIGHTRAIL DRIVE, CONTRACTOR SHALL COORDINATE | (•) (MGA) GRANDIFLORA 'ALTA' |
| BUFFER | INSTALLATION WITH KNIGHTDALE STATION DEVELOPMENT, PHASE R4 AND THE LANDSCAPE | (MLG) MAGNOLIA GRANDIFLORA 'LITTLE GEM' |
| AIN GARDEN | ARCHITECT. ALL REPLACEMENT STREET TREES SHALL BE A MINIMUM SIZE OF 3" CALIPER. ALL STREET TREES SHALL BE PLANTED IN ACCORDANCE WITH SECTION 7.4.L OF THE UDO. | (MLG) MAGNOLIA GRANDIFLORA 'LITTLE GEM' |
| UFFER, O.S. | | (PCT) PRUNUS CERASIFERA 'THUNDERCLOUD' |
| AIN GARDEN | | |
| AIN GARDEN | | (PSK) PRUNUS SERRULATA 'KWANZAN' |
| | | "wwf" |
| | | |

1. THE SITE SHALL BE STABILIZED AND SEEDED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

2. ALL MECHANICAL EQUIPMENT, WASTE DISPOSAL FACILITIES, SHALL BE SCREENED FROM PUBLIC VIEW. ALL SIDES OF PARKING LOTS SHALL BE SCREENED WITH A TYPE A BUFFER YARD

3. ALL ABOVE GROUND UTILITY EQUIPMENT AND FACILITIES ASSOCIATED WITH ON-SITE ELECTRIC, CABLE, TELEPHONE, GAS OR OTHER SIMILAR UTILITY SHALL BE LOCATED IN THE SIDE OF REAR YARD AREA OF THE SITE AND SCREENED WITH A TYPE B BUFFER YARD (SECT. 7.4.1.3) THAT PERTAIN TO SEMI-OPAQUE SCREENS UP TO SIX FEET IN HEIGHT OR THE HEIGHT OF THE UTILITY, WHICHEVER IS LESS [UDO, SECT. 7.5.D]. PLANTINGS SHALL ALLOW FOR A MINIMUM OF 5' CLEARANCE AROUND THE STRUCTURE TO ALLOW FOR ACCESS. ADDITIONALLY, ANY SIDE OF THE STRUCTURE HAVING A DOOR OR LOCK, THE PLANTINGS SHALL ALLOW FOR A 10' CLEARANCE. THE AMOUNT OF CLEARANCE SHALL ACCOUNT FOR THE SIZE OF THE PLANT MATERIAL AT MATURITY. ALSO ANY ROOF MOUNTED MECHANICAL EQUIPMENT MUST BE SCREENED FROM STREETS AND ADJACENT PROPERTIES.

STORMWATER DEVICES SUCH AS CULVERTS, RIP RAP STRUCTURES, RETENTION AND DETENTION PONDS AND OTHER STORMWATER-RELATED DEVICES SHALL BE SCREENED WITH

ENTRY FEATURE WALLS REQUIRE FOUNDATION PLANTINGS AT THE BASE OF THE WALL.

ALL PLANTING MEDIANS AND/OR ISLANDS IN VEHICULAR USE AREAS SHALL BE AT LEAST TEN FEET LONG BY TEN FEET WIDE FROM BACK OF CURB TO BACK OF CURB, WITH A MINIMUM OF 300 SQUARE FEET OF SPACE PER CANOPY TREE WHERE THESE TREES ARE PROPOSED AND SHOULD BE PLANTED ON SLOPES NOT TO EXCEED 1:4 VERTICAL TO HORIZONTAL

. THE SIZE OF THE PLANTING AREA AND SIZE OF PLANT MATERIAL AT MATURITY SHALL ALLOW FOR A 2.5' BUMPER OVERHANG FROM THE BACK OF CURB. EACH CANOPY TREE SHALL BE SEPERATED FROM PARKING SPACES BY AN 18" STANDARD CURB & GUTTER DESIGNED TO MINIMIZE DAMAGE BY VEHICLES TO PLANTS WITHIN THE LANDSCAPE AREA. 8. NO CANOPY TREE SHALL BE LOCATED WITHIN A ROADWAY RIGHT OF WAY OR WITHIN 5' OF A SIDEWALK, WITHIN 10' OF A LIGHTING LOCATION OR WITHIN 12' OF ELECTRICAL

9. ALL SHRUBS INSTALLED AS VEHICULAR USE SCREENING WILL BE MAINTAINED AS A CONTINUOUS HEDGE AT A MINIMUM HEIGHT OF 36 INCHES.

10. WHERE EXISTING OR PROPOSED VEGETATION FAILS TO FUNCTION ADEQUATELY AS REQUIRED, THE TOWN OF KNIGHTDALE SITE INSPECTOR RESERVES THE RIGHT TO REQUIRE SUPPLEMENTAL PLANTINGS IN ADDITION TO THOSE SHOWN ON THE LANDSCAPE PLAN BASED ON ACTUAL FIELD CONDITIONS. 11. UPON ESTABLISHMENT OF FINISHED GRADES AND PRIOR TO BEGINNING INSTALLATION OF ANY TREES, A SOIL AMENDMENT SCHEDULE FOR ALL TREE PLANTINGS SHALL BE PREPARED BY A

12. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, A CERTIFIED STATEMENT SHALL BE PROVIDED TO TOWN STAFF KNIGHTDALE SITE INSPECTOR ATTESTING TO THE FACT THAT THE SOIL AMENDMENT SCHEDULE WAS FOLLOWED AS SPECIFIED IN THE APPROVED SITE AND/OR SUBDIVISION PLAN. THIS STATEMENT SHALL BE CERTIFIED BY A REGISTERED LANDSCAPE ARCHITECT, CERTIFIED ARBORIST, OR OTHER SPECIALIST AS DETERMINED ACCEPTABLE BY THE PLANNING DIRECTOR.

13. THE PROPERTY OWNER OR DEVELOPER SHALL PROVIDE FOR CONTINUOUS MAINTENANCE OF THE LANDSCAPE AREAS AFTER OCCUPANCY OF THE BUILDING. THE PROPERTY OWNER SHALL ENSURE THAT PERFORMANCE CRITERIA WITHIN THIS ORDINANCE AND/OR INCLUDED ON THE APPROVED SITE AND/OR SUBDIVISION PLAN ARE MET. FAILURE TO CORRECT DEFICIENCIES IN A TIMELY MANOR SHALL RESULT IN A CITATION FOR VIOLATION OF THIS ORDINANCE IN ACCORDANCE WITH CHAPTER 1

THE TOWN OF KNIGHTDALE SITE INSPECTOR RESERVES THE RIGHT TO REQUIRE ADDITIONAL PLANTINGS BASED ON ACTUAL FIELD CONDITIONS

15. ALL IRRIGATION SYSTEM PLANS ARE SUBMITTED THROUGH THE BUILDING PERMIT PROCESS AND ARE EVALUATED SEPARATELY FROM AND IN ADDITION TO THE SITE PLAN AND BUILDING 16. LARGE EVERGREEN SHRUBS OR FENCING SHALL BE USED TO SCREEN HVAC EQUIPMENT FROM ADJOINING LOTS AND COMMON AREAS.

17. ALL LANDSCAPING, MULCHING AND SEEDING SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED SITE PLAN AND THE STANDARDS OF SECTION 7.4 OF THE UDO PRIOR TO

18. REQUIRED BUFFER YARDS MUST HAVE AT LEAST 40% BUT NO MORE THAN 60% EACH OF CANOPY AND UNDERSTORY TREES, AND AT LEAST 80% OF SHRUBS MUST BE EVERGREENS. 19. NOTHING SHALL BE PLANTED WITHIN AN UNDERGROUND OR OVERHEAD UTILITY EASEMENT OR A DRAINAGE EASEMENT WITHOUT THE CONSENT OF THE TOWN AND THE EASEMENT HOLDER

20. ANY TREES LOCATED WITHIN THE SIGHT TRIANGLES SHALL BE LIMBED UP TO A HEIGHT OF 8' ABOVE THE CURB LINE ELEVATION. ANY SHRUBS LOCATED WITHIN THE SITE TRIANGLES SHALL

21. DUKE ENERGY PLANTING REQUIREMENTS - ACCORDING TO DUKE ENERGY, PLANTINGS WITHIN 20' OF OVERHEAD POWER LINES SHALL NOT EXCEED 15' HEIGHT. TREES PLNATED 20-50' FROM POWER LINES SHALL NOT EXCEED 40' IN HEIGHT. TREES PLANTED OVER 50' FROM POWER LINES MAY EXCEED 40' IN HEIGHT.

THE OWNERS OF THE PROPERTY AND THEIR AGENTS, HEIRS OR ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION AND MAINTENANCE OF ALL PLANTINGS AND PHYSICAL FEATURES SHOWN ON THIS PLAN. THE OWNERS SHALL BE RESPONSIBLE FOR ANNUAL MAINTENANCE OF THE VEGETATION TO INCLUDE BUT NOT LIMITED TO: FERTILIZATION: FERTILIZE LAWNS TWICE PER YEAR (FEBRUARY 15-MARCH 15 AND AGAIN SEPTEMBER 1-OCTOBER 31) ACCORDING TO SOIL TEST. FERTILIZE WARM SEASON GRASSES ONCE DURING THE GROWING SEASON PER SOIL TEST.

PRUNING SHALL BE LIMITED TO REMOVAL OF DEAD WOOD OR BRANCHES FOR TREES OR FOR SIGHT DISTANCES/SAFETY REASONS. THE ANSI A300 STANDARDS SHOULD BE ADHERED TO. THE PRUNING OF SHRUBS SHALL BE LIMITED TO THE PRUNING NECESSARY TO MAINTAIN THE NATURAL SHAPE OF THE PLANT EXCEPT FOR SHEARED HEDGES. THE OWNER OF ANY TREE OR SHRUB ON PRIVATE PROPERTY THAT OVERHANGES ANY PUBLIC RIGHT-OF-WAY SHALL PRUNE THE BRANCHES SO THAT SUCH BRANCHES SHALL NOT OBSTRUCT THE LIGHT FROM ANY STREETLAMP OR OBSTRUCT THE VIEW OF ANY STREET INSTERSECTION AND SO THAT THERE SHALL BE A CLEAR SPACE OF 8 FEET ABOVE THE SURFACE OF THE STREET

PEST CONTROL: PRE-EMERGENT WEED CONTROL FOR SHRUB BEDS MAY BE APPLIED IN FEBRUARY. CHEMICAL TREATMENT FOR INSECT INFESTATION AND DISEASE MAY BE APPLIED AND

MULCHING: MULCHING SHALL BE MAINTAINED AT A DEPTH OF 2-3" IN SHRUB BEDS. MULCH SHALL BE REAPPLIED EVERY TWO YEARS. AS NECESSARY TO MAINTAIN THE AVERAGE DEPTH OF THE PLANT BED.

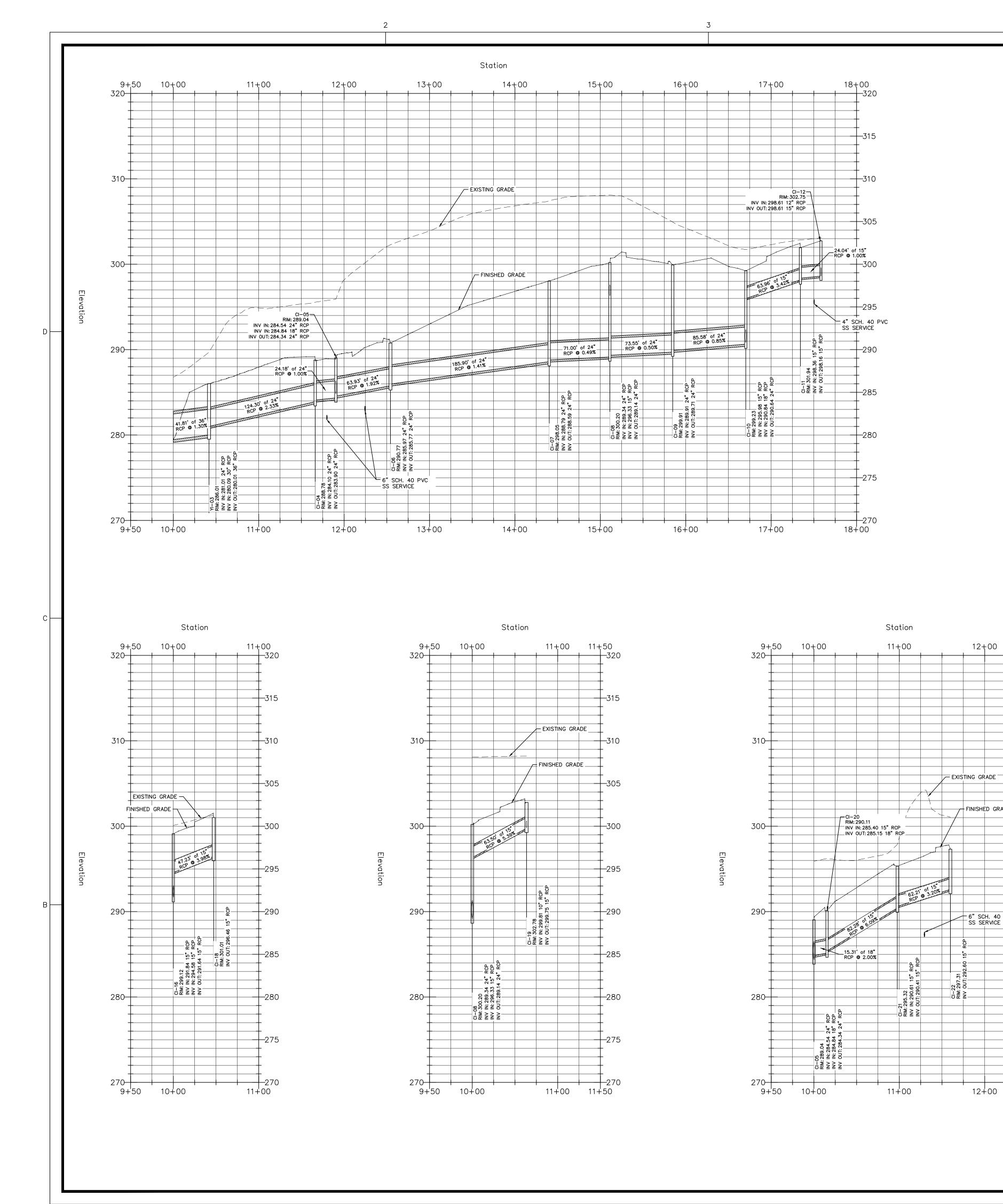
MOWING: PRIMARY FESCUE LAWNS SHALL BE MAINTAINED AT A HEIGHT OF 3" AND SHALL BE MOWED APPROXIMATELY 30 TIMES PER YEAR. SECONDARY TURF AREAS MAY BE MAINTAINED HIGHER AND LESS FREQUENTLY. WARM SEASON GRASSES SHALL BE MOWED AS NEEDED DURING THE GROWING SEASON TO MAINTAIN THE RECOMMENDED HEIGHT OF THE SPECIES OF

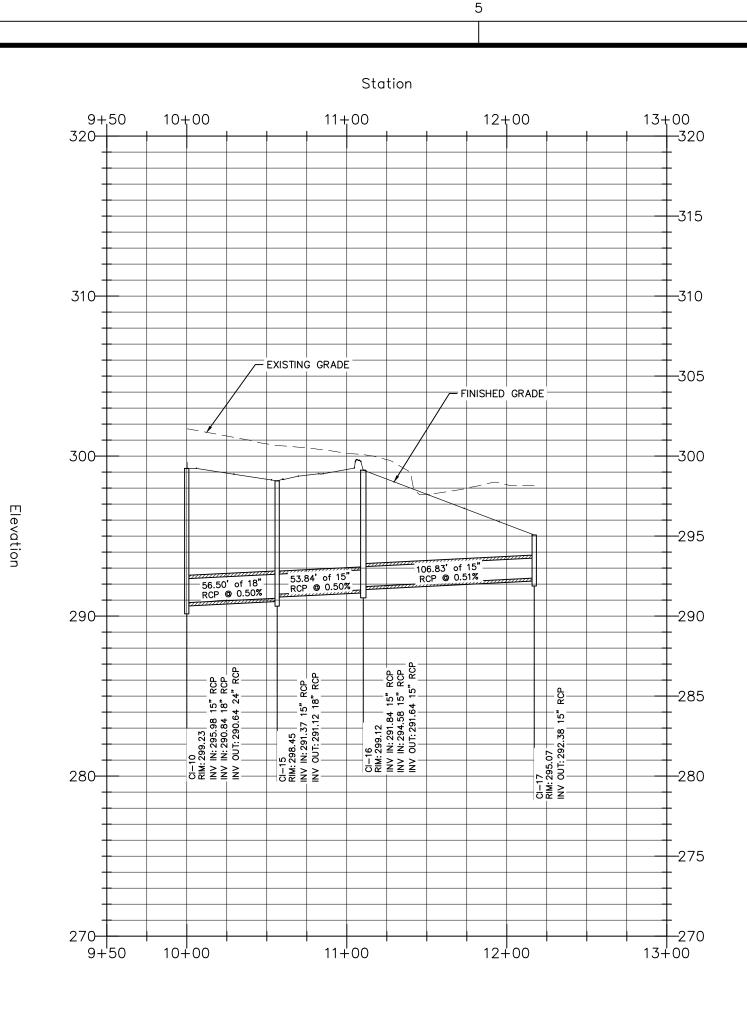
WATERING: IF ANY IRRIGATION SYSTEM IS UTILIZED, THE SYSTEM SHALL BE REGULATED TO PROVIDE APPROXIMATELY 1" OF RAINFALL PER WEEK DURING THE GROWING SEASON. (PENDING

REMOVAL OF DISEASE INFESTED MATERIAL SHALL BE ALLOWED SO LONG AS REQUIRED SHRUBS ARE REPLACED AT THE REQUIRED RATES AND SIZES.

INTERIOR PARKING LOT LANDSCAPING COMPLIANCE $\overline{<} \Sigma$ PROVIDED: O' CANOPY RING MUST COVER ALL PROPOSED PARKING SPACES. 18 CANOPY TREES PROVIDED TO MEET REQUIREMEN J∀ [⊨] ELIA GRANDIFLORA 'CANYON CREEK' LIA GRANDIFOLIA 'LITTLE RICHARD' RANGEA QUERCIFOLIA 'ALICE' LANDSCAPE SPECIES & TOLERANCE NOTE CRENATA 'GOLDEN SOFT TOUCH' A MINIMUM OF 60% OF THE LANDSCAPE FEATURES UTILIZED ON A PARCEL CRENATA 'STEEDS' THAT IS BETWEEN 0.5 AND 5 ACRES SHALL BE DROUGHT AND Drawn GLABRA 'SHAMROCK' JH SALT-TOLERANT NATIVE SPECIES. TOTAL LANDSCAPE FEATURES, EXCLUDING TURN. SHALL NOT BE COMPRISED OF MORE THAN 30% OF ANY SINGLE VOMITORIA 'SCHILLINGS' Checked SPECIES OR 50% OF ANY GENUS [UDO, SEC. 7.4.G.1.B.IV]. VIRGINICA LITTLE HENRY ROPETALUM CHINENSE 'PURPLE DAYDREAM' ROPETALUM CHINENSE 'PURPLE DIAMOND' a. Town Certification. This design has been reviewed by the Engineer for the Town of DATE: Knightdale, and to the best of my knowledge and belief, it conforms to the requirements RICA PENSYLVANICA 12 JAN 2024 established in the Standard Specifications of the Town of Knightdale. URNUM TINUS 'SHADES OF PINK' REVISED: Date: ____ ORUS GRAMINEUS 'OGON' Town Engineer NICUM VIRGATUM 'SHENANDOAH' These plans are approved by the Town of Knightdale and serve as construction plans for this project. <u>/3</u>14 JUN 2024 RCUS LYRATA Land Use Administrator MENT TREES) <u>/4</u>02 AUG 2024 530 AUG 2024 ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CONSTRUCTION CITY OF RALEIGH & TOWN OF KNIGHTDALE DESIGN DRAWINGS STANDARDS, DETAILS AND SPECIFICATIONS. NORTH CAROLINIAN AVENUE LANDSCAPE CAROLINIAN AVE. PLAN LANDSCAPE PLAN Job ASKSCD Code Dwg No. SCALE: 1'' = 50'(DRAWING SCALED FOR 24x36 INCH PLOTS) SITE 510









12+00 12+50

6" SCH. 40 PVC SS SERVICE

22 297.31 0UT: 292

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-315

-310

-290

-285

____275

12+00 12+50

| 1. | YARD INLET (|
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| | ELEVATION. |
| 2. | CURB INLET (|
| 3 | RCP SHALL R |

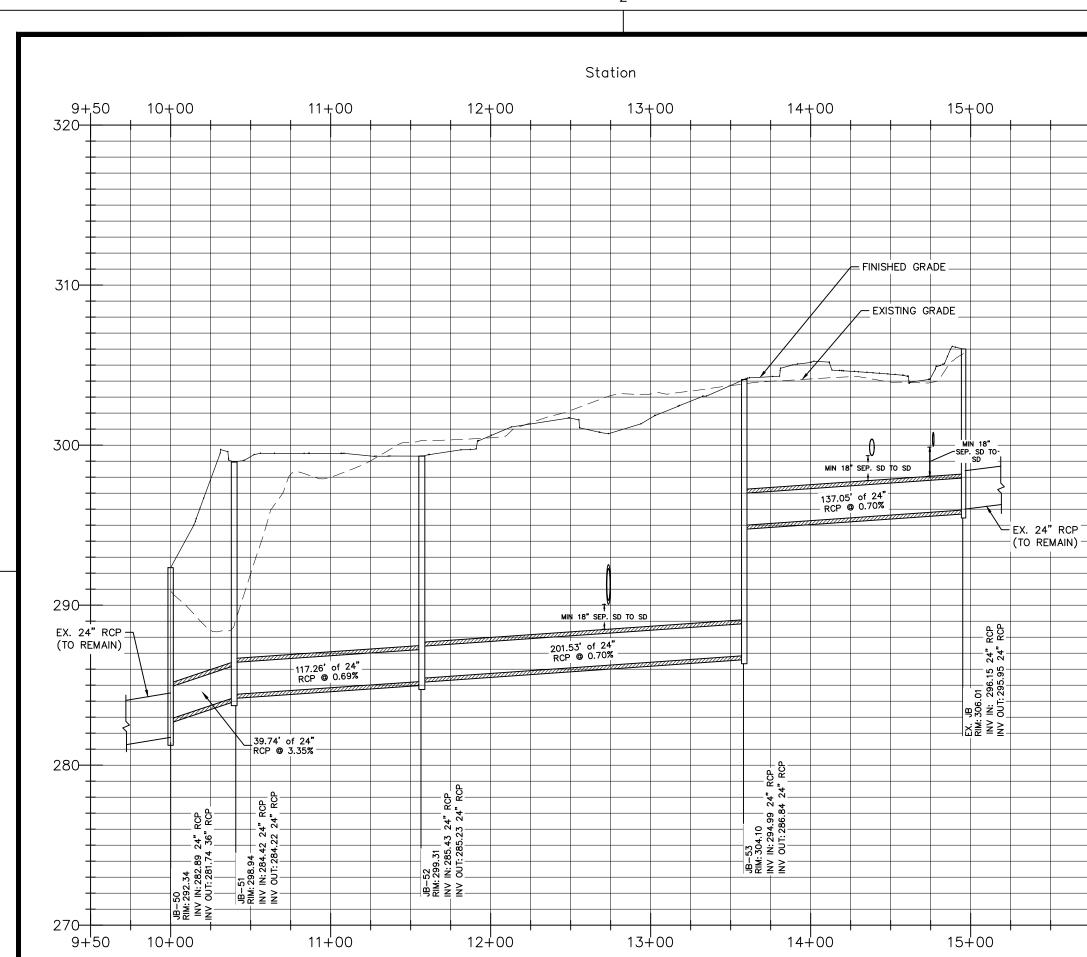
(YI) RIM ELEVATION LISTED IS TOP OF GRATE (CI) RIM ELEVATION LISTED IS TOP OF CURB. 3. RCP SHALL DE MINIMUM CLASS III.

| By: Town Engineer | Date: |
|-----------------------------------|---|
| These plans are approved project. | by the Town of Knightdale and serve as construction plans for |
| By: Land Use Administrator | Date: |

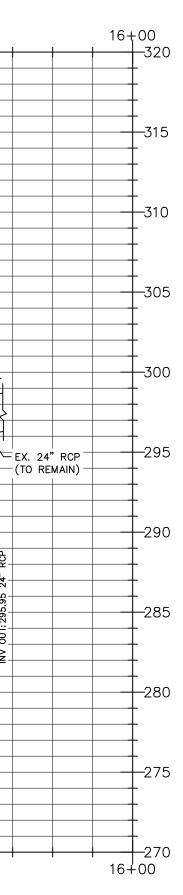
a. Town Certification. This design has been reviewed by the Engineer for the Town of

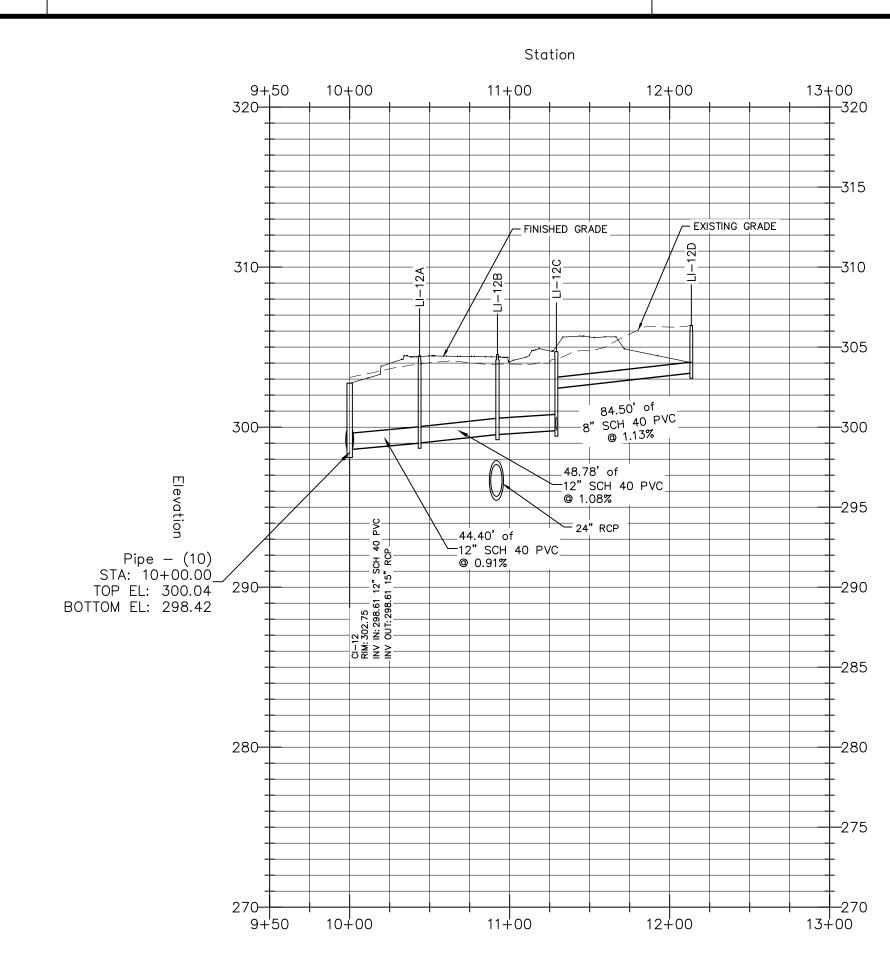
| | PROFILE: | 1"=60' 1"=6' V | HORIZ. ERT. | |
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| 0 | 60 | 120 | 180 | 240 |
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| | CERT. NO. HELL NORTH CAROLINE ALEIGH, NC. NC ENGINEERING LICENSE NO. P-0803 | |
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| | THE SITE GROUP, PLLC. THE SITE GROUP. THE SITE | 1 |
| | CONSTRUCTION DRAWINGS FOR: ATLAS STARK KNIGHTDALE STATION MIXED-USE 0 & 7790 KNIGHTDALE BLVD., KNIGHTDALE, NC ST. MATTHEW'S TOWNSHIP WAKE COUNTY | |
| | Drawn By MRK Checked By SRN | ſ |
| | DATE: 12 JAN 2024 REVISED: 12 1 FEB 2024 2 12 APR 2024 3 09 MAY 2024 4 14 JUN 2024 5 02 AUG 2024 6 20 SEP 2024 | |
| ALL RIGHTS RESERVED | CONSTRUCTION DRAWINGS | |
| | MORNING FLYER WAY STORM DRAIN PROFILES | |
| Copyright C 2024 The Site Group, PLLC. | ^{Job} Code Askscd Dwg No. SITE 600 | |



| STORM SEWER STRUCTURE TABLE | | |
|-----------------------------|--|--|
| STRUCTURE NAME: | DETAILS: | |
| CI-18 | RIM = 303.01 INV OUT = 298.46 (47.3 LF 15" RCP @ 3.99%) | |
| CI-08 | $\begin{array}{rcl} RIM &=& 302.20 \\ INV \; IN &=& 291.64 \; (73.5 \; LF \; 18" \; RCP @ \; 0.50\%) \\ INV \; IN &=& 298.33 \; (63.6 \; LF \; 15" \; RCP @ \; 5.39\%) \\ INV \; OUT &=& 291.44 \; (71.0 \; LF \; 18" \; RCP @ \; 0.50\%) \end{array}$ | |
| CI-09 | RIM = 301.91 INV IN = 292.21 (85.6 LF 18" RCP @ 0.50%) INV OUT = 292.01 (73.5 LF 18" RCP @ 0.50%) | |
| JB-52 | RIM = 301.31 INV IN = 289.63 (201.5 LF 24" RCP @ 0.70%) INV OUT = 289.43 (115.8 LF 24" RCP @ 0.70%) | |
| CI-10 | RIM = 301.23 INV IN = 295.98 (64.0 LF 15" RCP @ 3.42%) INV IN = 292.84 (56.5 LF 15" RCP @ 0.50%) INV OUT = 292.64 (85.6 LF 18" RCP @ 0.50%) | |
| CI-16 | RIM = 301.12 INV IN = 293.84 (106.8 LF 15" RCP @ 0.50%) INV IN = 296.58 (47.3 LF 15" RCP @ 3.99%) INV OUT = 293.64 (53.8 LF 15" RCP @ 0.50%) | |
| JB-51 | RIM = 300.97 INV IN = 288.62 (115.8 LF 24" RCP @ 0.70%) INV OUT = 288.42 (40.7 LF 24" RCP @ 3.27%) | |
| CI-15 | RIM = 300.45 INV IN = 293.37 (53.8 LF 15" RCP @ 0.50%) INV OUT = 293.12 (56.5 LF 15" RCP @ 0.50%) | |
| CI-07 | RIM = 300.05 INV IN = 291.09 (71.0 LF 18" RCP @ 0.50%) INV OUT = 290.89 (185.9 LF 18" RCP @ 1.41%) | |
| CI-22 | RIM = 299.31 INV OUT = 294.60 (62.2 LF 15" RCP @ 3.20%) | |
| CI-21 | RIM = 297.32 INV IN = 292.61 (62.2 LF 15" RCP @ 3.20%) INV OUT = 292.51 (82.5 LF 15" RCP @ 7.31%) | |
| JB-53 | RIM = 306.10 INV IN = 294.99 (137.1 LF 24" RCP @ 0.70%) INV OUT = 291.04 (201.5 LF 24" RCP @ 0.70%) | |

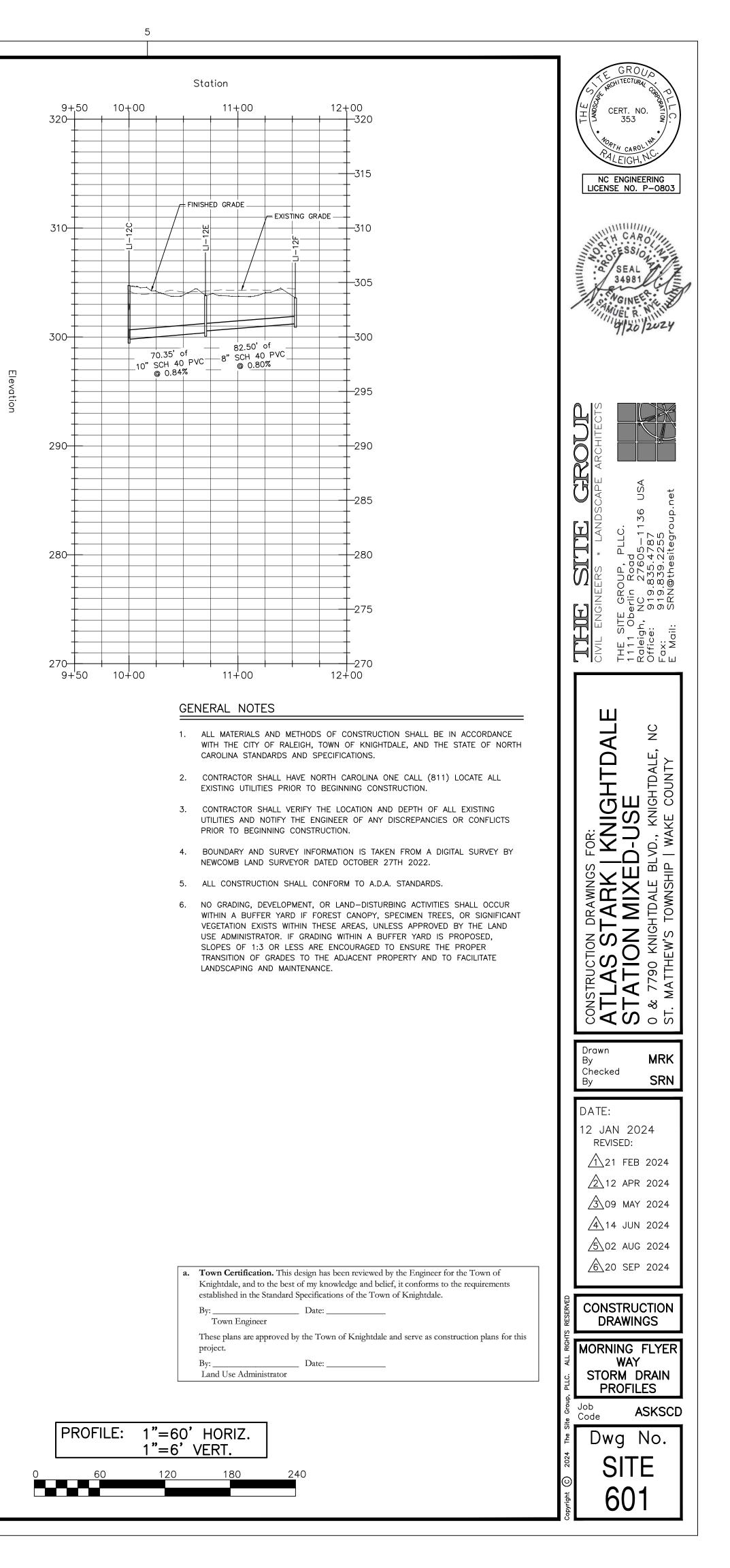


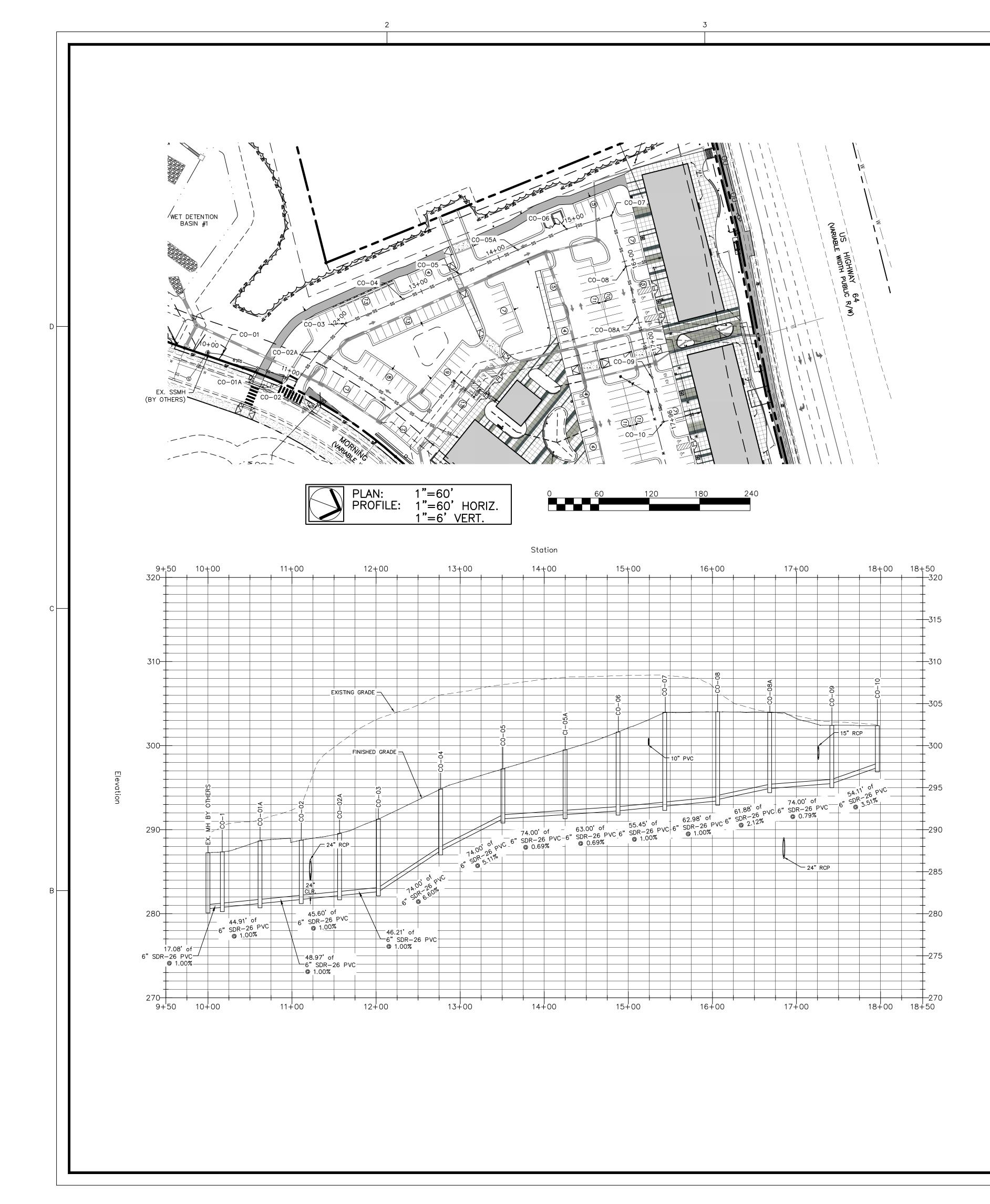


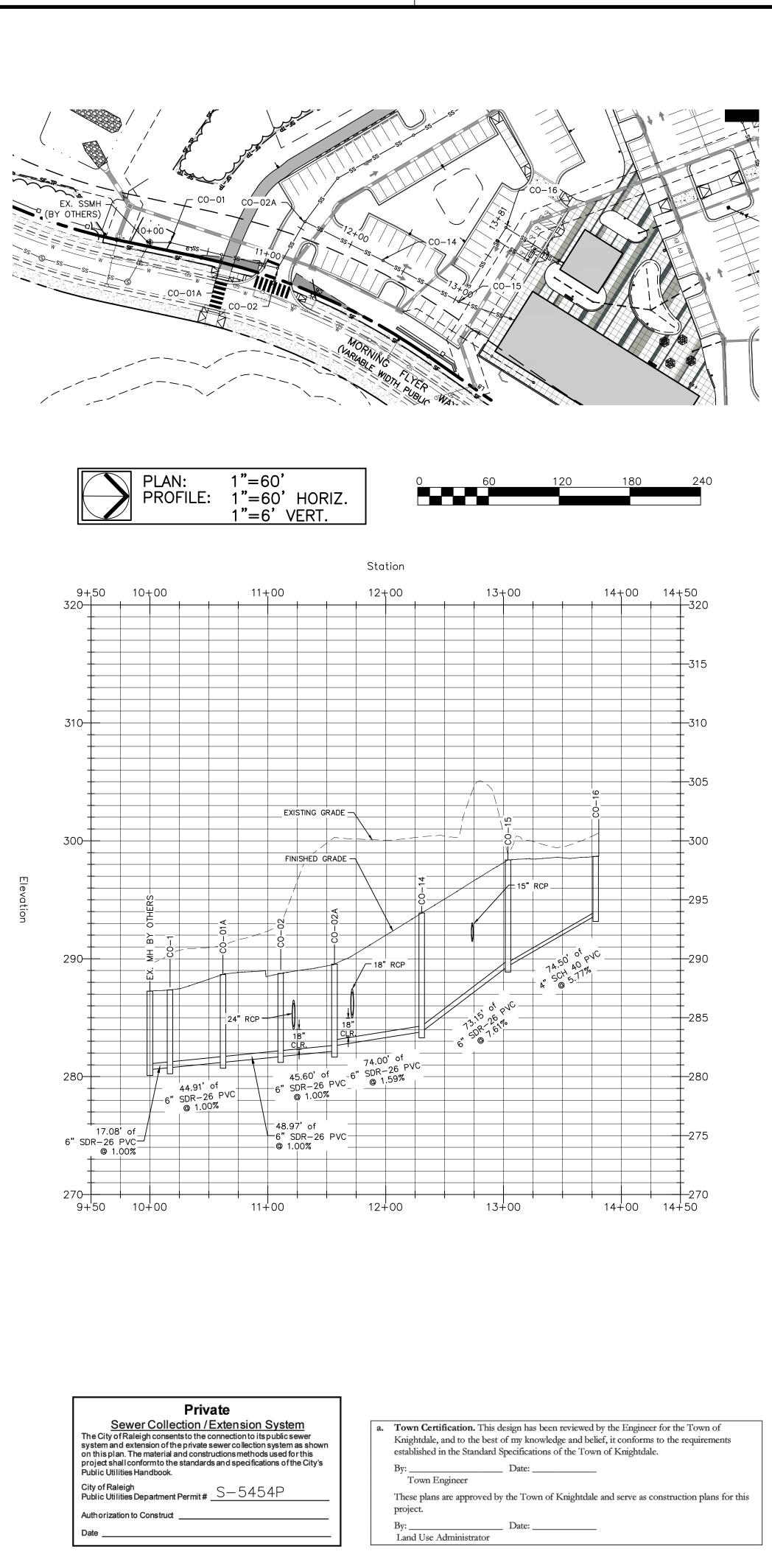
| STORM SEWER STRUCTURE TABLE | | |
|-----------------------------|--|--|
| STRUCTURE NAME: | DETAILS: | |
| CI-17 | RIM = 297.07 INV OUT = 294.38 (106.8 LF 15" RCP @ 0.50%) | |
| CI-06 | RIM = 292.77 INV IN = 288.27 (185.9 LF 18" RCP @ 1.41%) INV OUT = 288.07 (64.0 LF 18" RCP @ 4.49%) | |
| JB-50 | RIM = 292.34 INV IN = 287.09 (40.7 LF 24" RCP @ 3.27%) | |
| CI-20 | RIM = 292.11 INV IN = 286.49 (82.5 LF 15" RCP @ 7.31%) INV OUT = 286.29 (15.3 LF 18" RCP @ 1.89%) | |
| CI-04 | RIM = 289.75 INV IN = 284.76 (24.2 LF 24" RCP @ 1.01%) INV OUT = 284.70 (124.4 LF 24" RCP @ 3.38%) | |
| CI-05 | $\begin{array}{rcl} RIM &=& 289.36 \\ INV \; IN &=& 285.20 \; (64.0 \; LF \; 18" \; RCP \; \textcircled{0} \; 4.49\%) \\ INV \; IN &=& 286.01 \; (15.3 \; LF \; 18" \; RCP \; \textcircled{0} \; 1.89\%) \\ INV \; OUT &=& 285.01 \; (24.2 \; LF \; 24" \; RCP \; \textcircled{0} \; 1.01\%) \end{array}$ | |
| EX. SD MH | RIM = 286.86 INV OUT = 281.00 (27.1 LF 30" RCP @ 3.36%) | |
| CI-03 | $\begin{array}{rll} {\sf RIM} &=& 285.95 \\ {\sf INV} \; {\sf IN} &=& 280.50 \; (124.4 \; {\sf LF} \; 24" \; {\sf RCP} \; \textcircled{0} \; 3.38\%) \\ {\sf INV} \; {\sf IN} &=& 280.09 \; (27.1 \; {\sf LF} \; 30" \; {\sf RCP} \; \textcircled{0} \; 3.36\%) \\ {\sf INV} \; {\sf OUT} \; =&\; 280.01 \; (41.8 \; {\sf LF} \; 36" \; {\sf RCP} \; \textcircled{0} \; 1.30\%) \end{array}$ | |
| FES-02 | RIM = 283.30 INV IN = 279.46 (41.8 LF 36" RCP @ 1.30%) | |
| CI-19 | RIM = 304.78 INV IN = 299.81 (69.8 LF 10" RCP @ 1.00%) INV OUT = 301.75 (63.6 LF 15" RCP @ 5.39%) | |
| CI-12 | RIM = 304.75 INV IN = 298.61 (40.5 LF 10" RCP @ 1.00%) INV OUT = 298.61 (24.0 LF 15" RCP @ 1.00%) | |
| CI-11 | $\begin{array}{rcl} RIM &=& 303.94 \\ INV & IN &=& 298.36 \ (24.0 \ LF \ 15" \ RCP \ \textcircled{0} \ 1.00\%) \\ INV & OUT &=& 298.16 \ (64.0 \ LF \ 15" \ RCP \ \textcircled{0} \ 3.42\%) \end{array}$ | |
| EX. JB | RIM = 306.01 INV OUT = 295.95 (137.1 LF 24" RCP @ 0.70%) | |

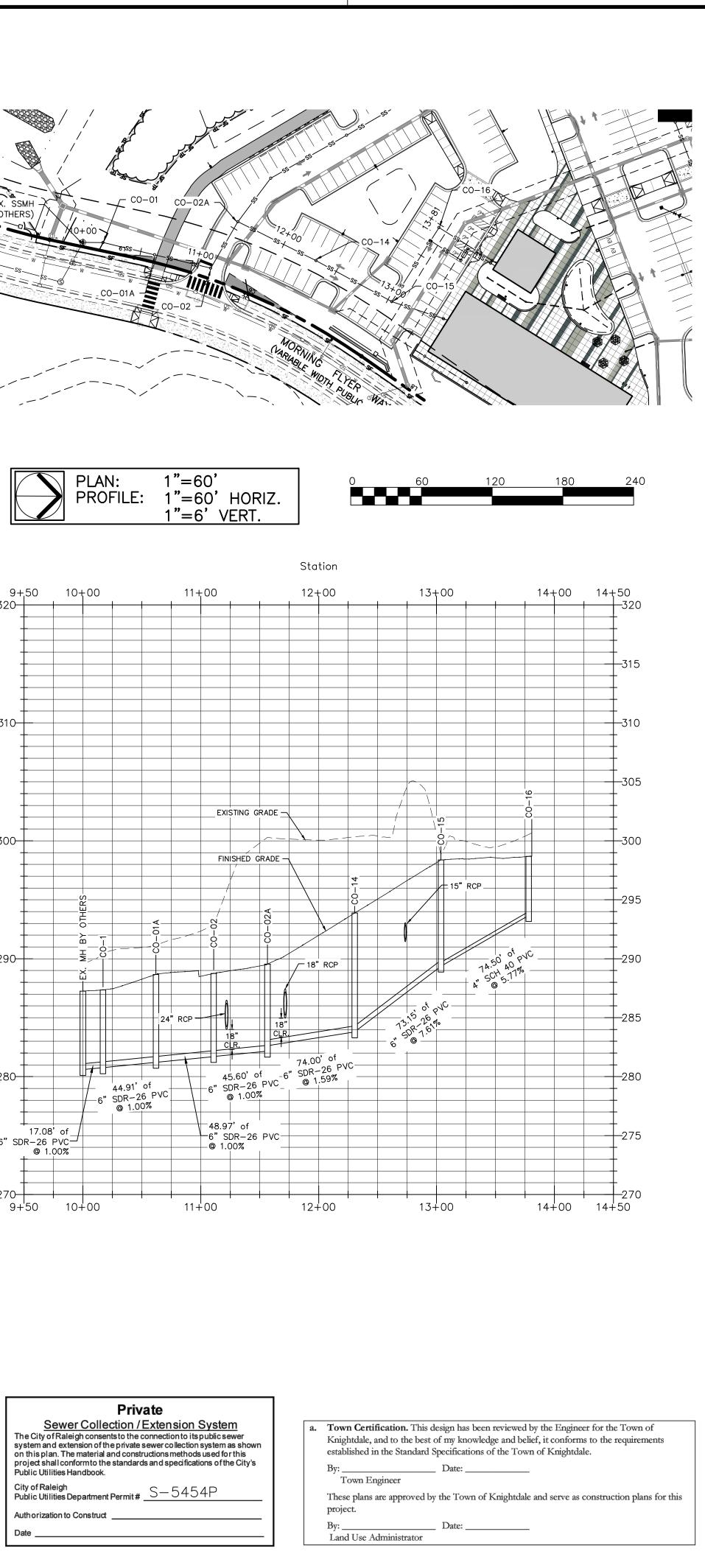
STORM DRAINAGE NOTES:

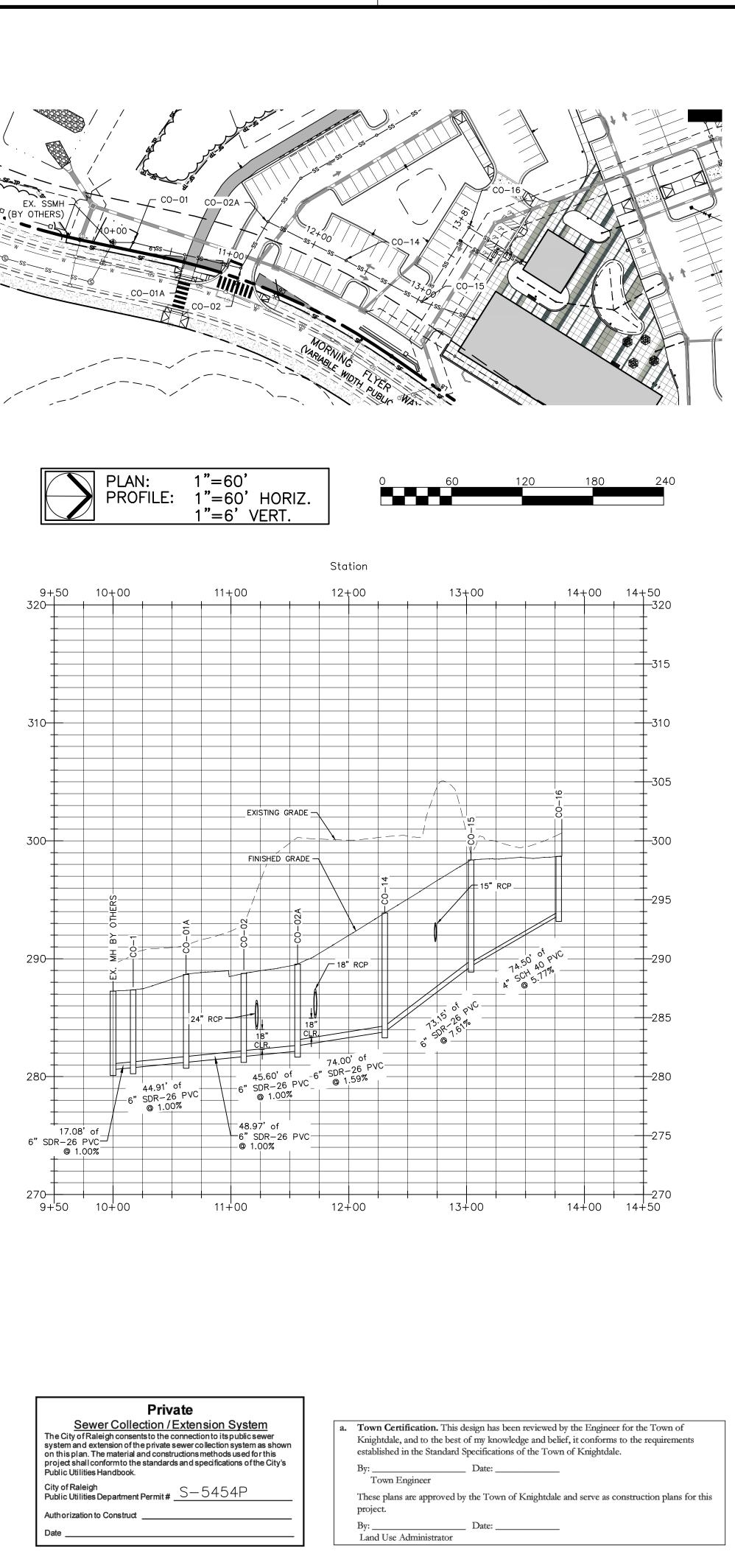
- 1. YARD INLET (YI) RIM ELEVATION LISTED IS TOP OF GRATE
- ELEVATION. 2. CURB INLET (CI) RIM ELEVATION LISTED IS TOP OF CURB.
- 3. RCP SHALL BE MINIMUM CLASS III.



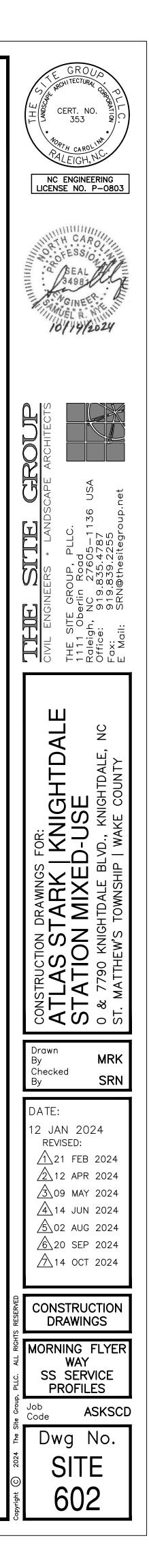


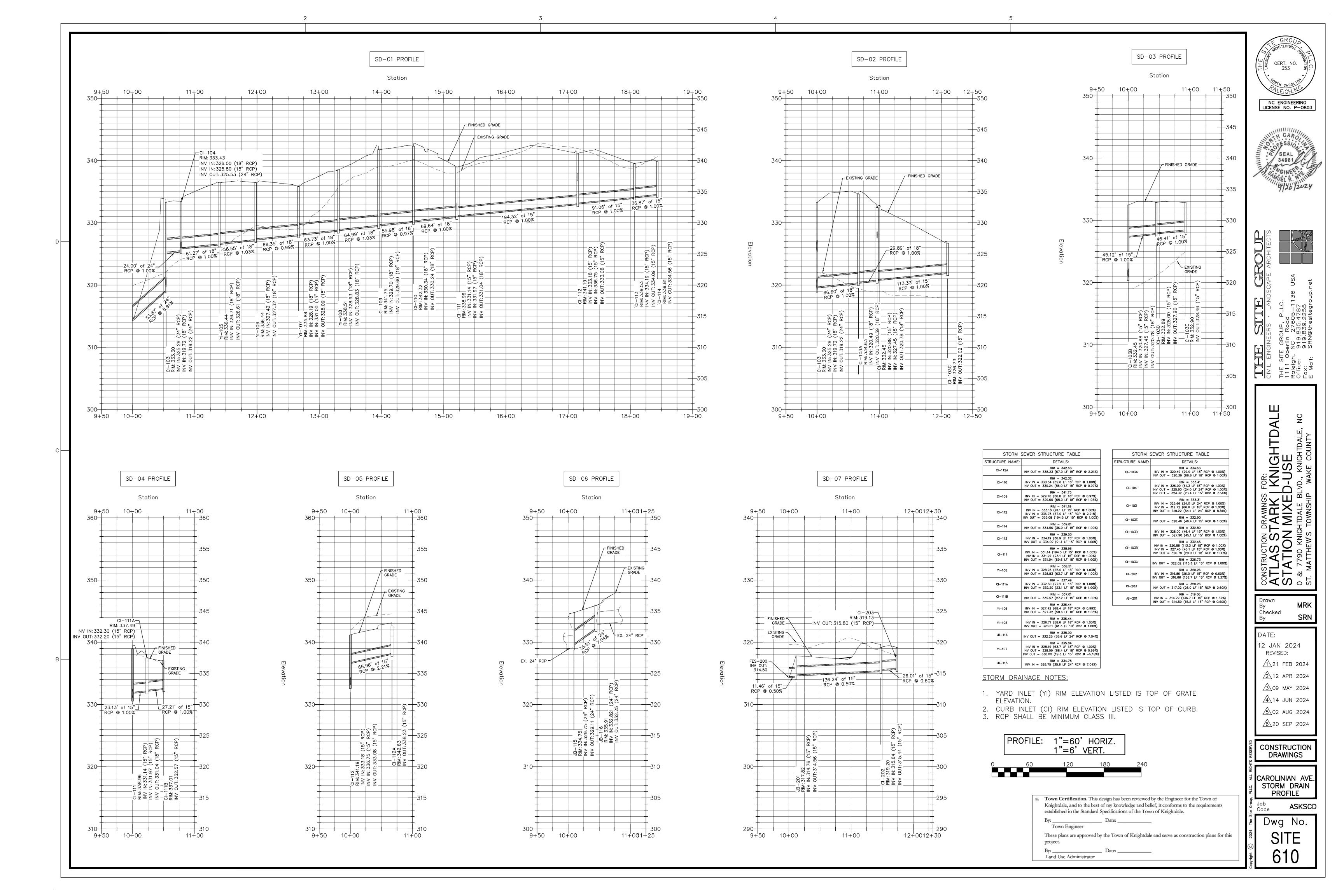


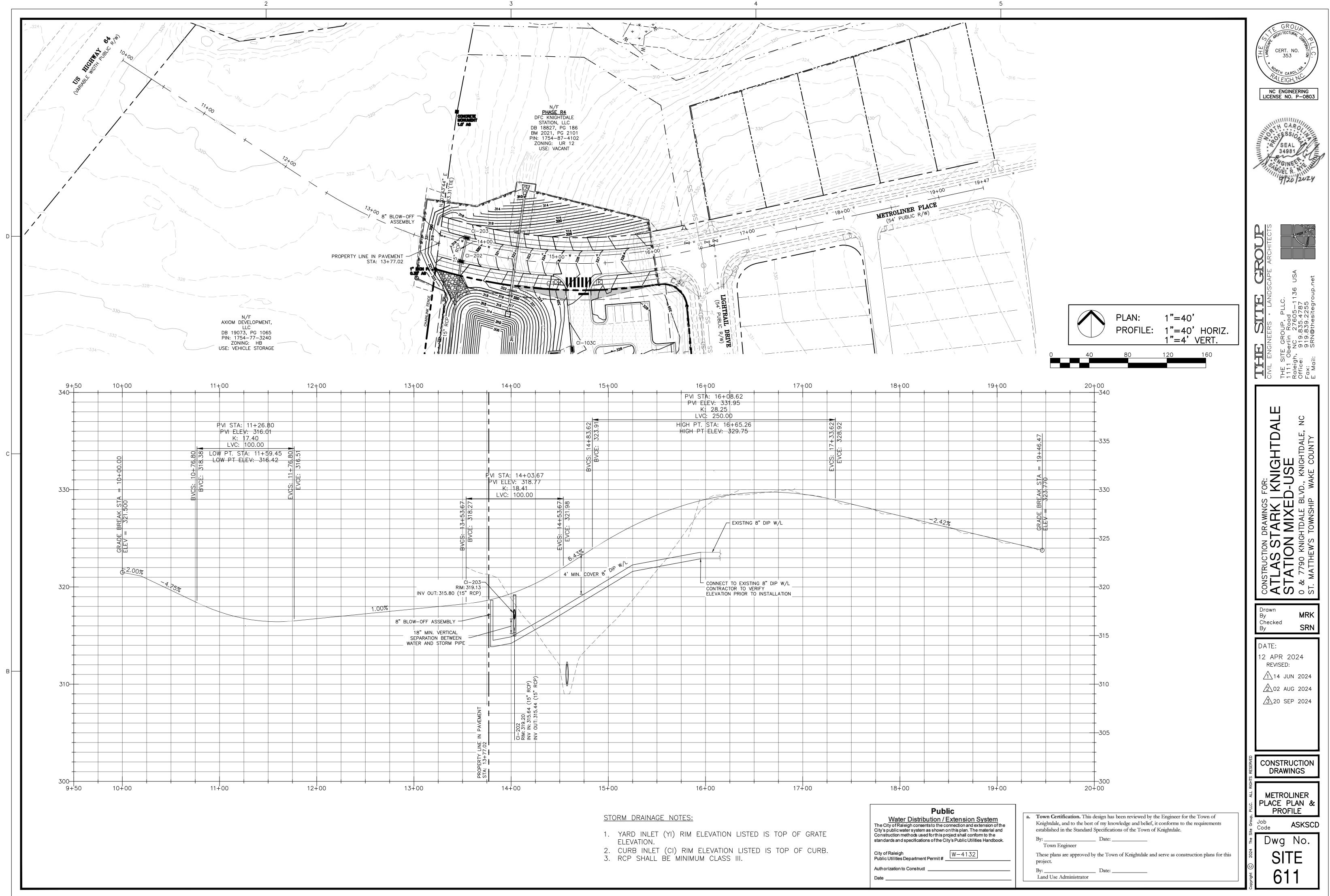


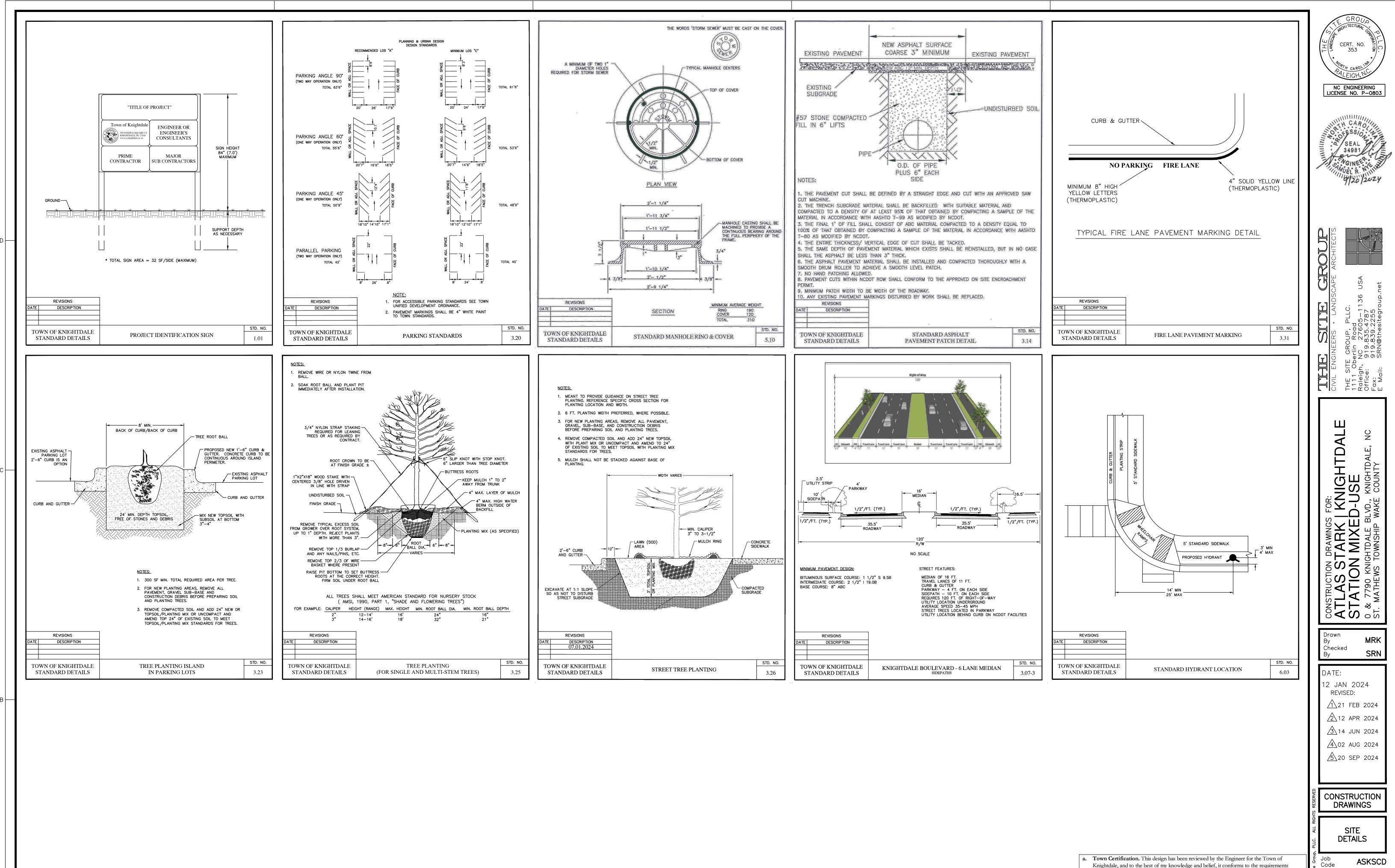


| Private |
|---|
| Sewer Collection / Extension |
| The City of Raleigh consents to the connection to its system and extension of the private sewer collection on this plan. The material and constructions method project shall conform to the standards and specifical Public Utilities Handbook. |
| City of Raleigh Public Utilities Department Permit # $_{-}S-545$ |
| Authorization to Construct |
| Date |
| |









a. 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. _____ Date: _____ By: ____ Town Engineer

These plans are approved by the Town of Knightdale and serve as construction plans for this project. ____ Date: ____

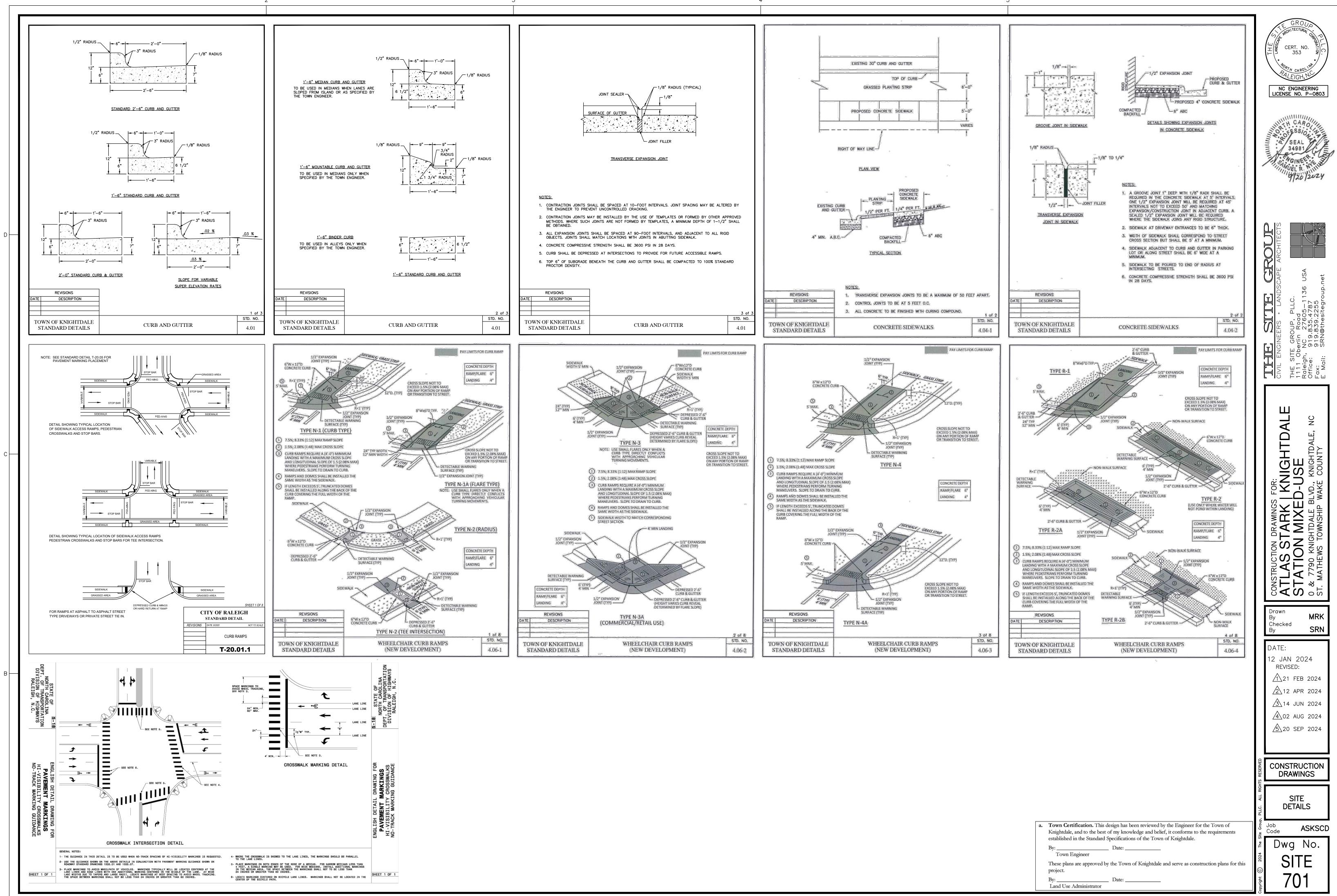
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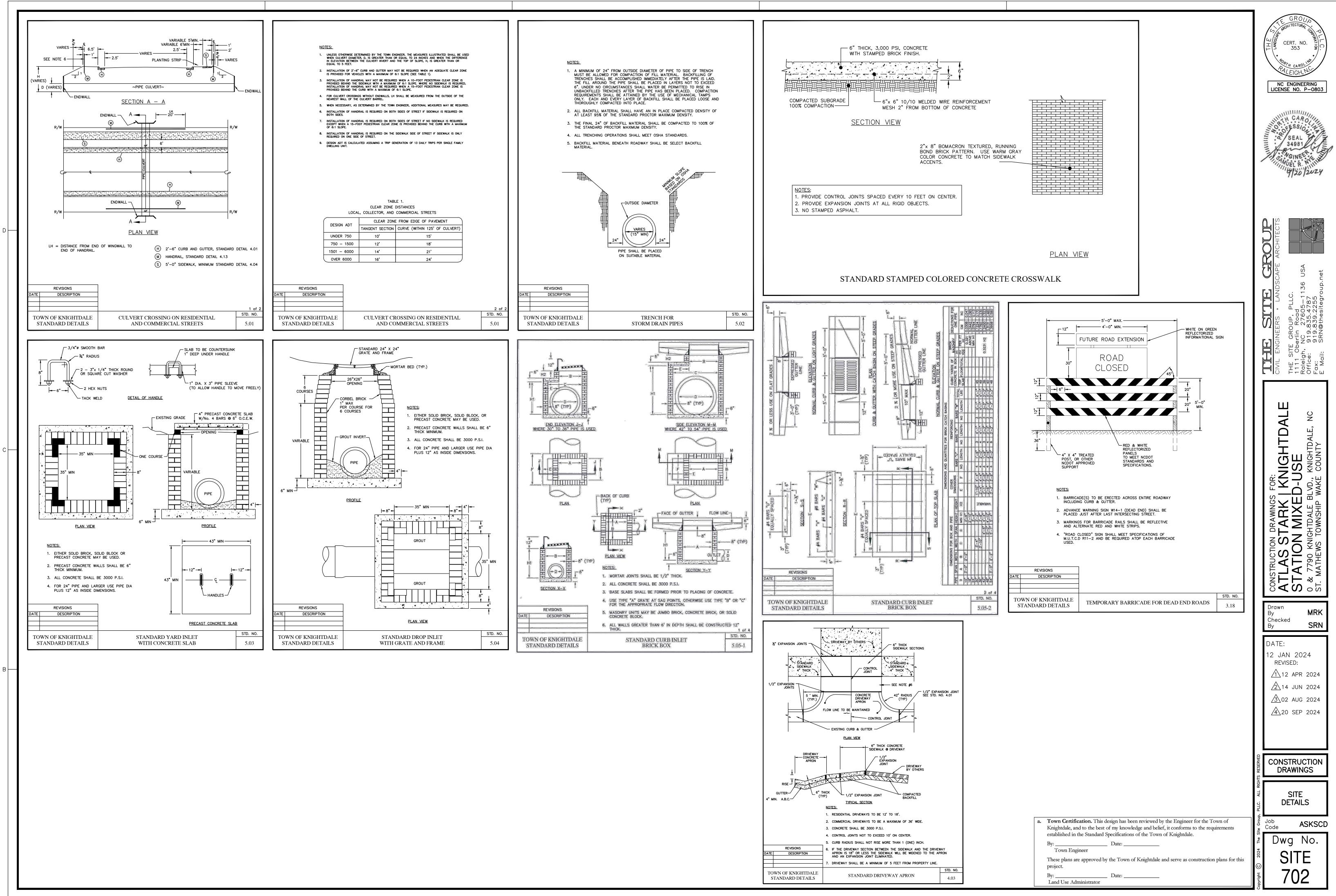
SITE

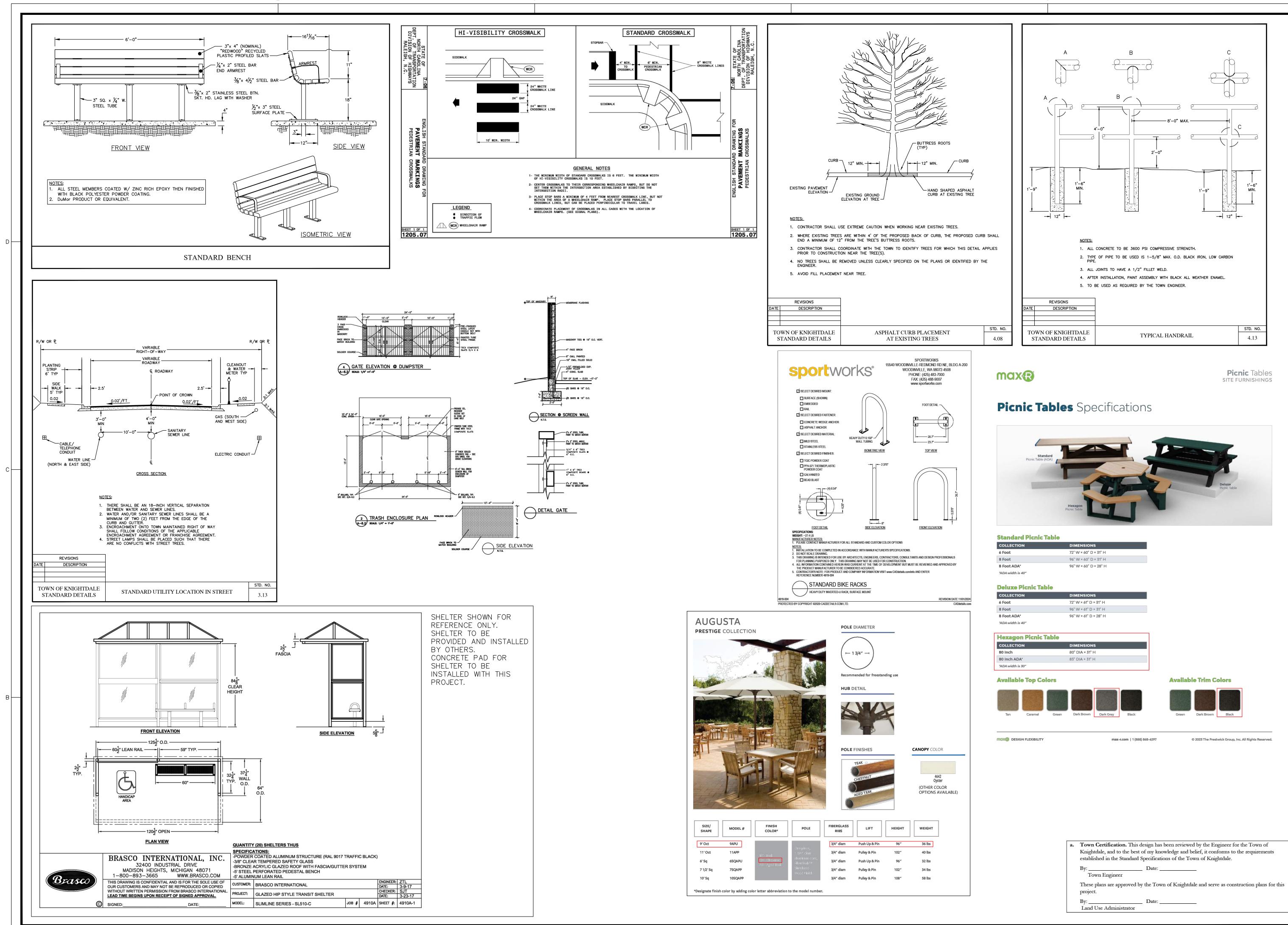
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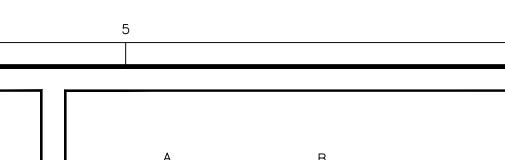
By: _ Land Use Administrator

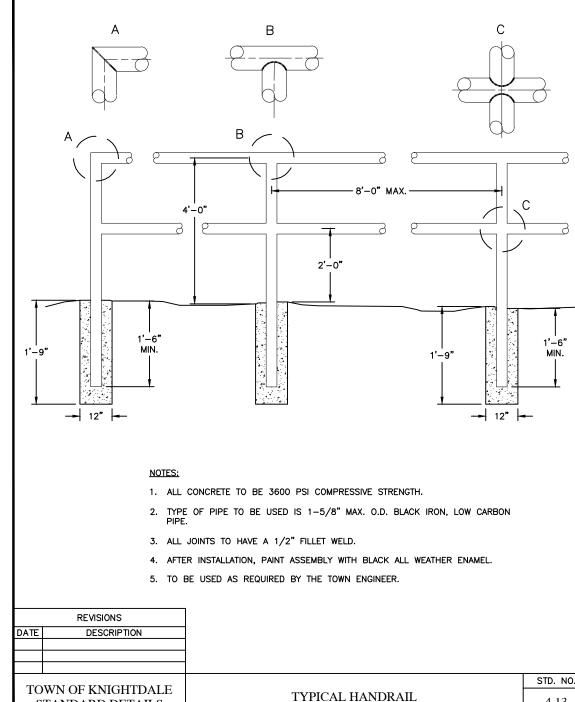


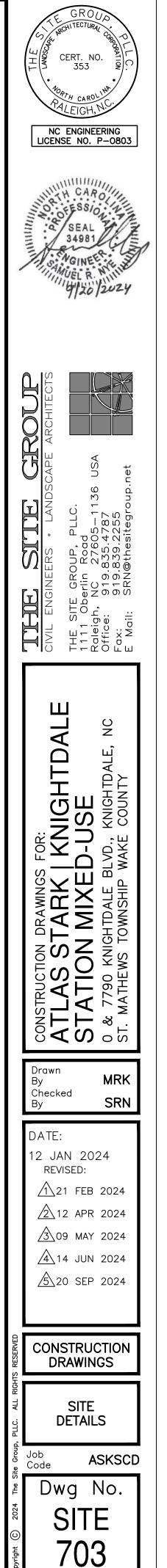


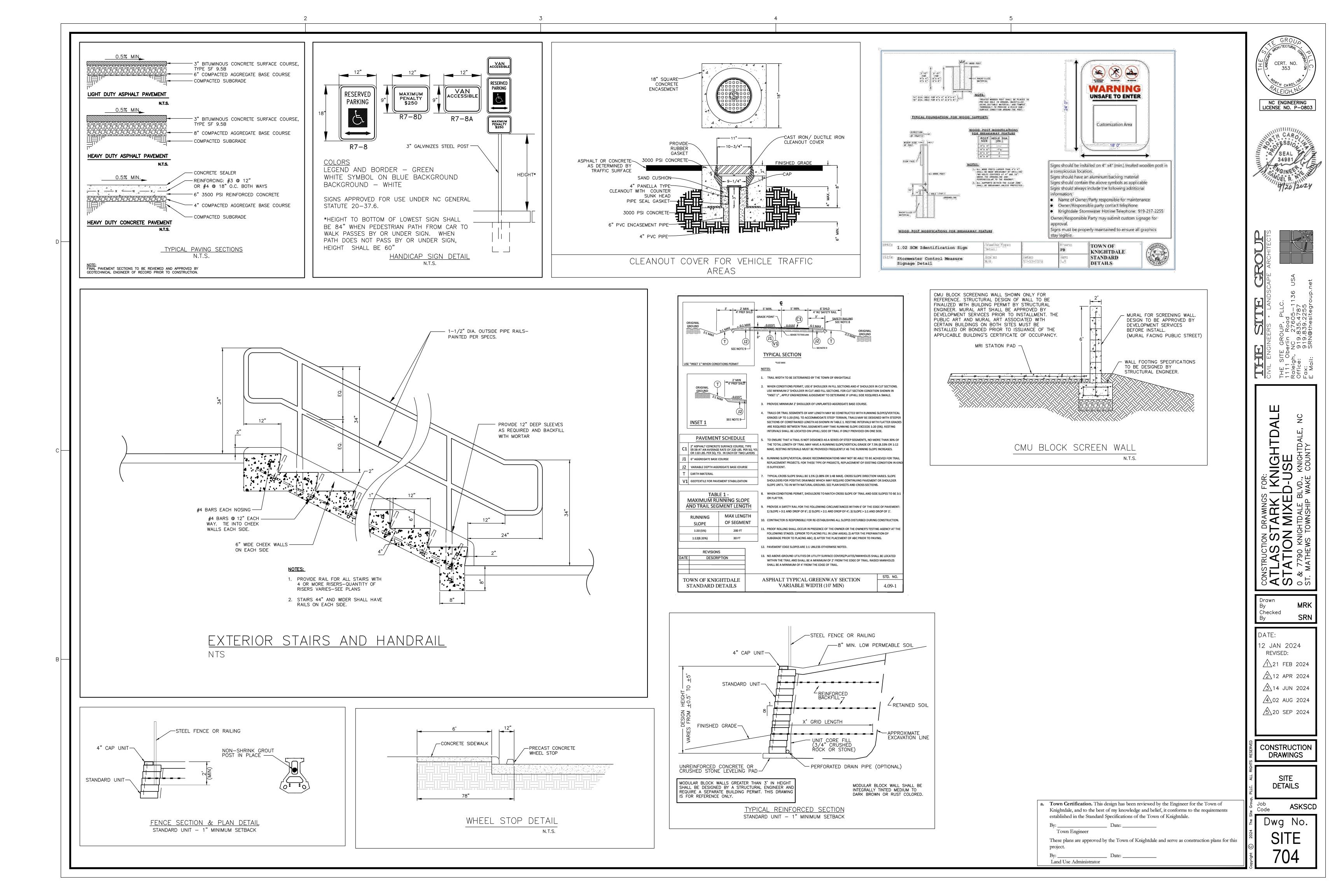


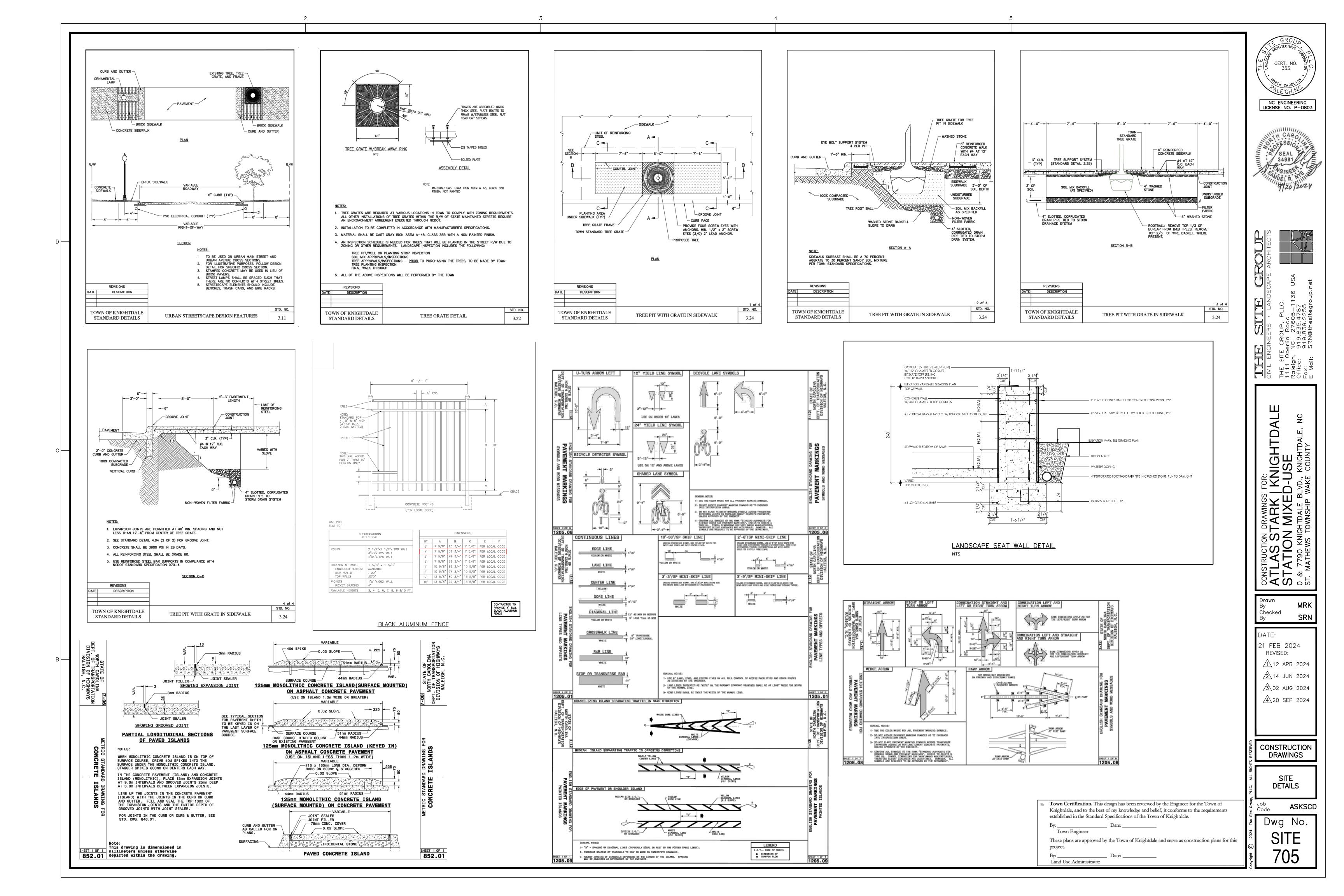


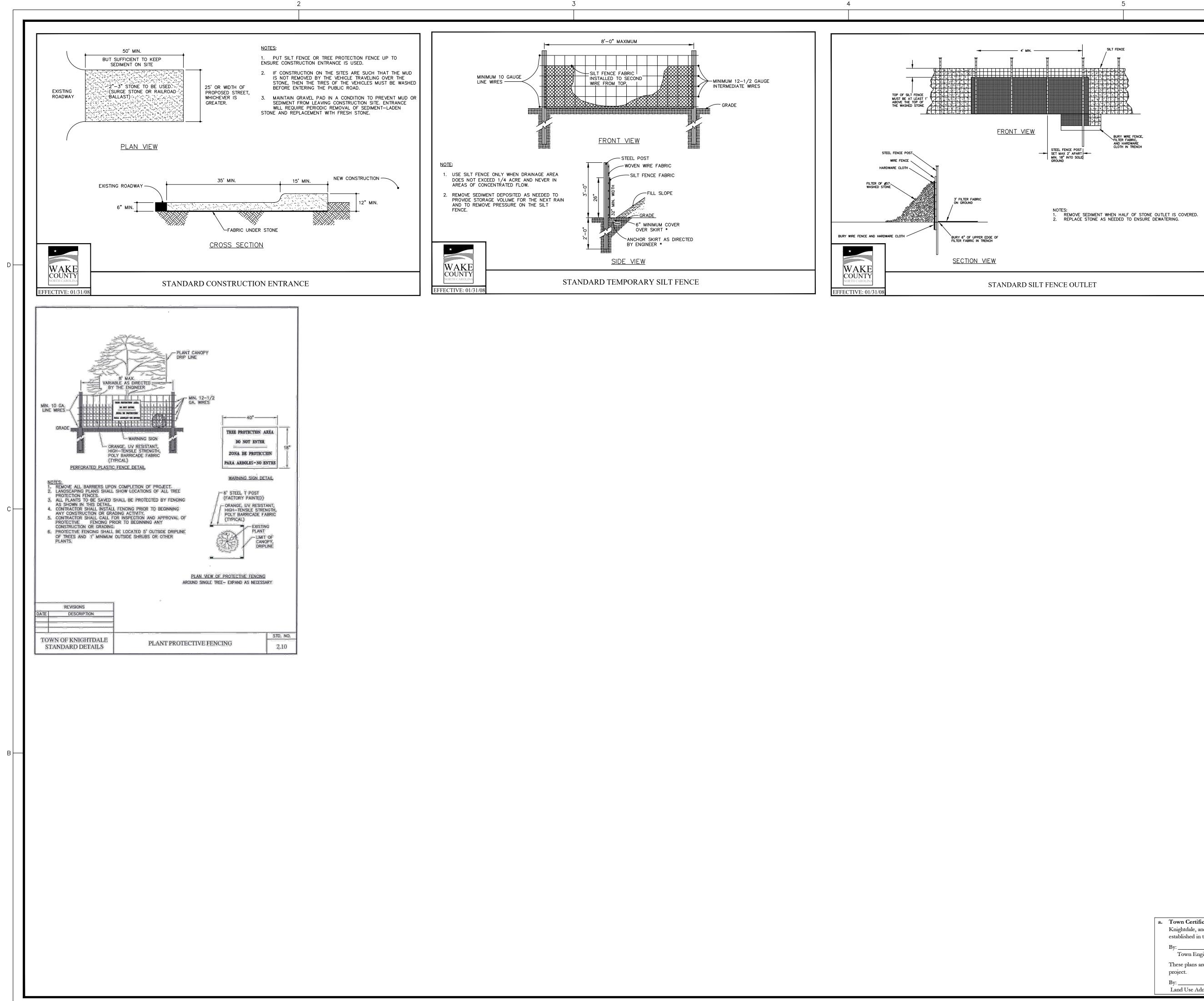






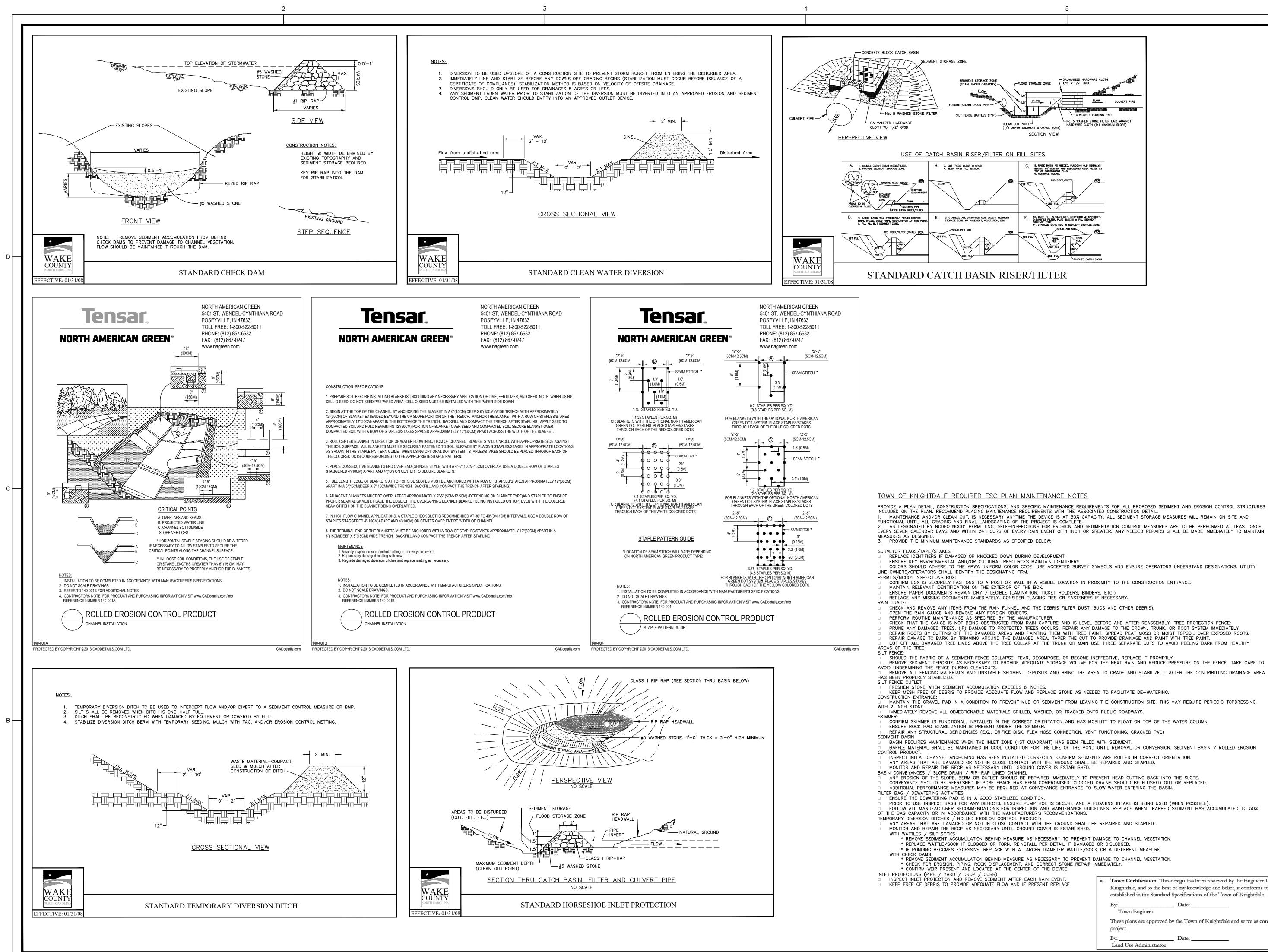


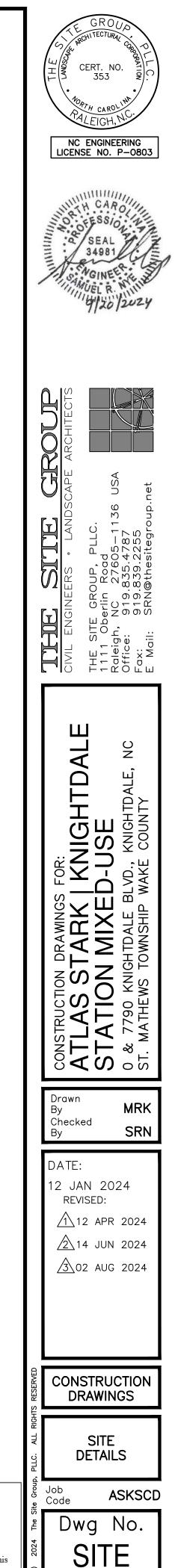




| | , | CERT. NO. HOPTH CAROLINA CERT. NO. HOPTH CAROLINA ALEIGH, N.C. NC ENGINEERING LICENSE NO. P-0803 | 1 |
|---|--|--|---|
| | | THE SITE GROUP, PLLC. THE SITE GROUP, PLLC. 1111 Oberlin Road Raleigh, NC 27605–1136 USA Office: 919.835.4787 Fax: 919.839.2255 E Mail: SRN@thesitegroup.net | |
| | | CONSTRUCTION DRAWINGS FOR: ATLAS STARK KNIGHTDALE STATION MIXED-USE 0 & 7790 KNIGHTDALE BLVD., KNIGHTDALE, NC ST. MATHEWS TOWNSHIP WAKE COUNTY | |
| | | Drawn By MRK Checked By SRN | |
| | | 12 APR 2024 REVISED: 109 MAY 2024 214 JUN 2024 302 AUG 2024 420 SEP 2024 | |
| | RICHTS RESERVED | CONSTRUCTION DRAWINGS | |
| | 2024 The Site Group, PLLC. ALL RIGHTS RESERVED | SITE DETAILS | |
| s | copyright (C) 2024 The Site (| Dwg No. SITE 706 | |

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| a. | Town Certification. This design has been reviewed by the Engineer for the Town of | Srou | , |
| | Knightdale, and to the best of my knowledge and belief, it conforms to the requirements | e | 1 |
| | established in the Standard Specifications of the Town of Knightdale. | Site | Г |
| | By: Date: | The | l |
| | Town Engineer | 2024 | |
| | These plans are approved by the Town of Knightdale and serve as construction plans for this | | |
| | project. | \odot | |
| | By: Date: | ight | |
| | Land Use Administrator | pyr | l |





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PROVIDE A PLAN DETAIL, CONSTRUCTION SPECIFICATIONS, AND SPECIFIC MAINTENANCE REQUIREMENTS FOR ALL PROPOSED SEDIMENT AND EROSION CONTROL STRUCTURES 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. 2. AS DESIGNATED BY NCDEQ NCGO1 PERMITTING, SELF-INSPECTIONS FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF 1 INCH OR GREATER. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN

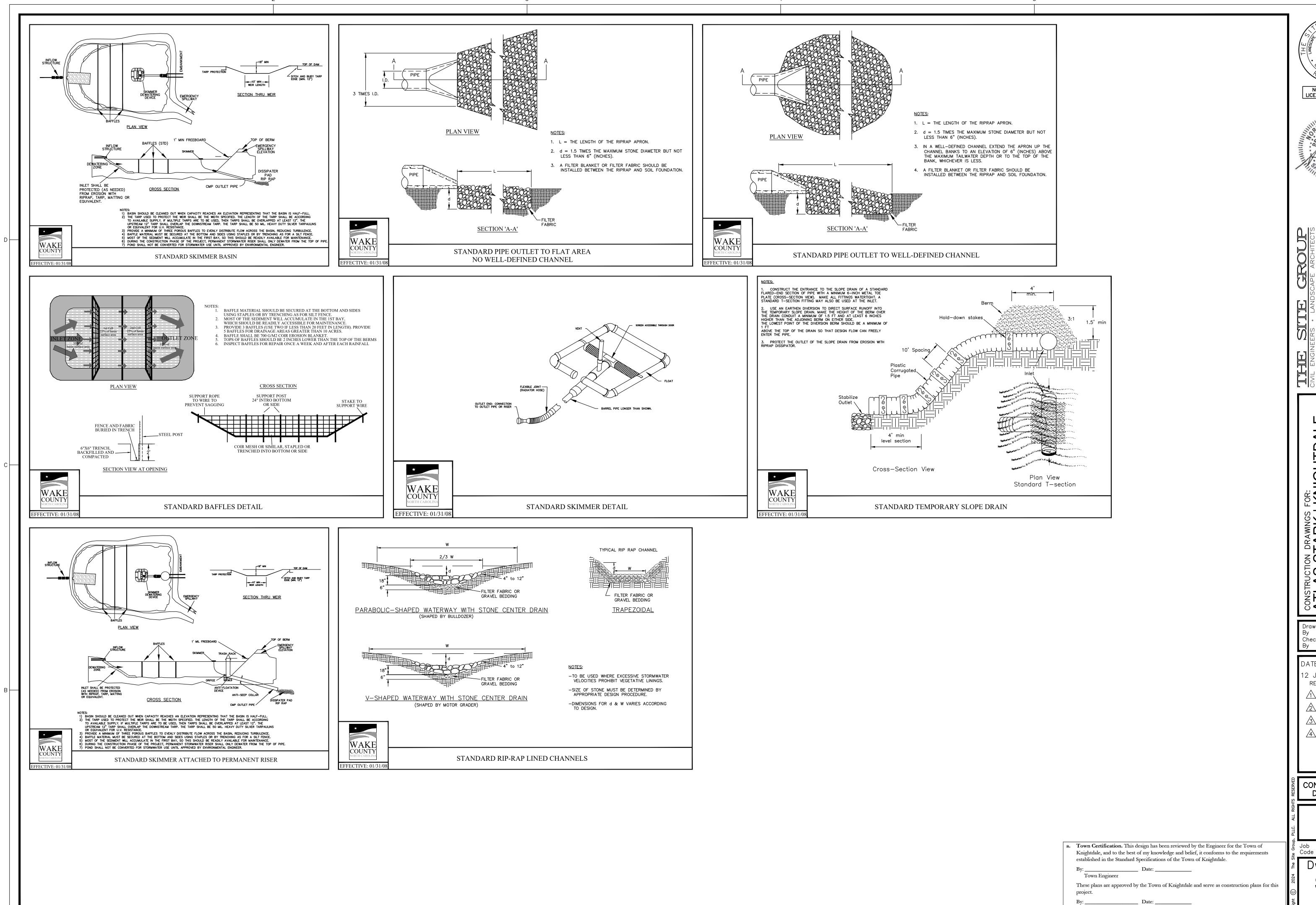
COLORS SHOULD ADHERE TO THE APWA UNIFORM COLOR CODE. USE ACCEPTED SURVEY SYMBOLS AND ENSURE OPERATORS UNDERSTAND DESIGNATIONS. UTILITY

SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND REDUCE PRESSURE ON THE FENCE. TAKE CARE TO

a. 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. Town Engineer

These plans are approved by the Town of Knightdale and serve as construction plans for this

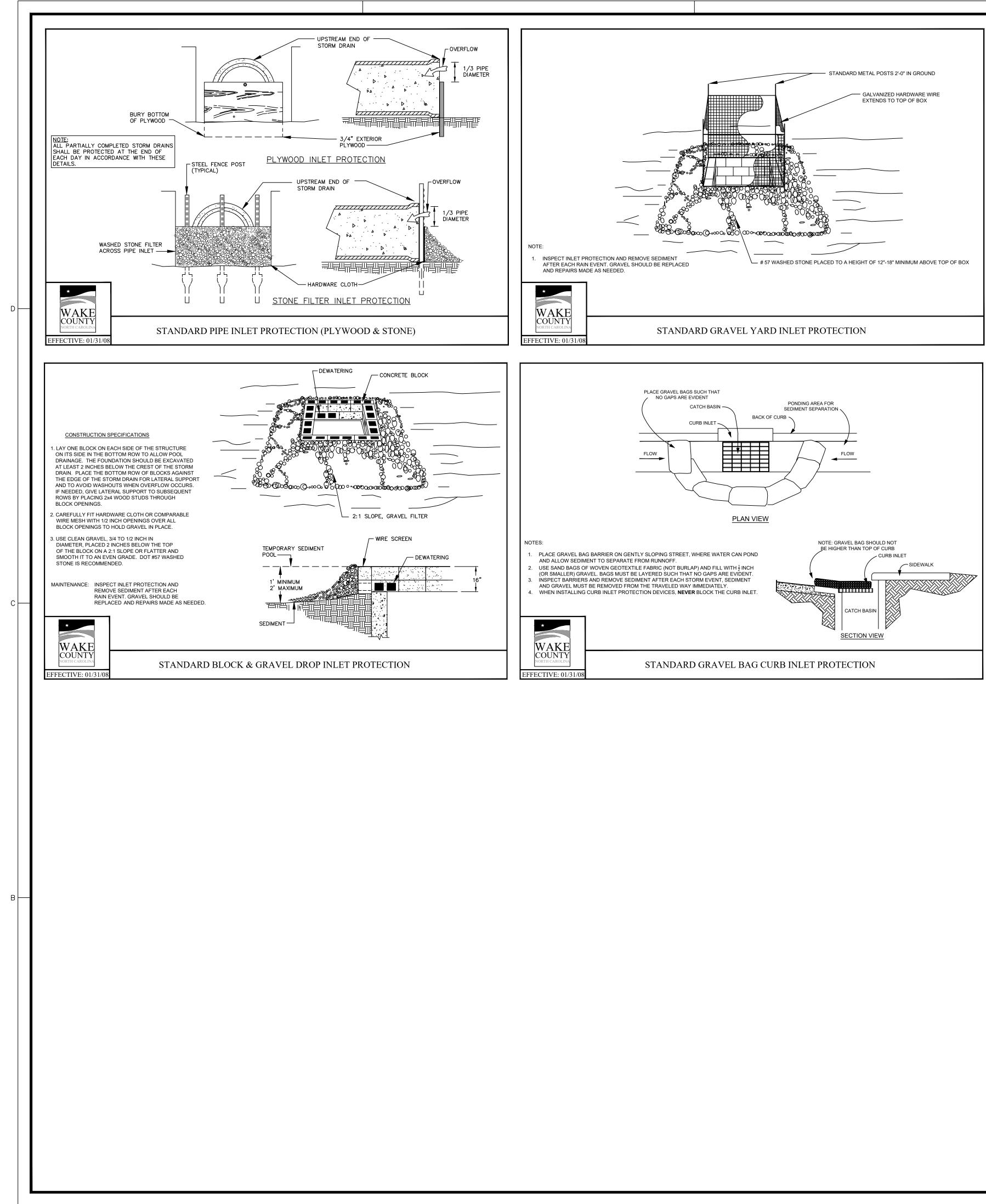
Date: Land Use Administrator

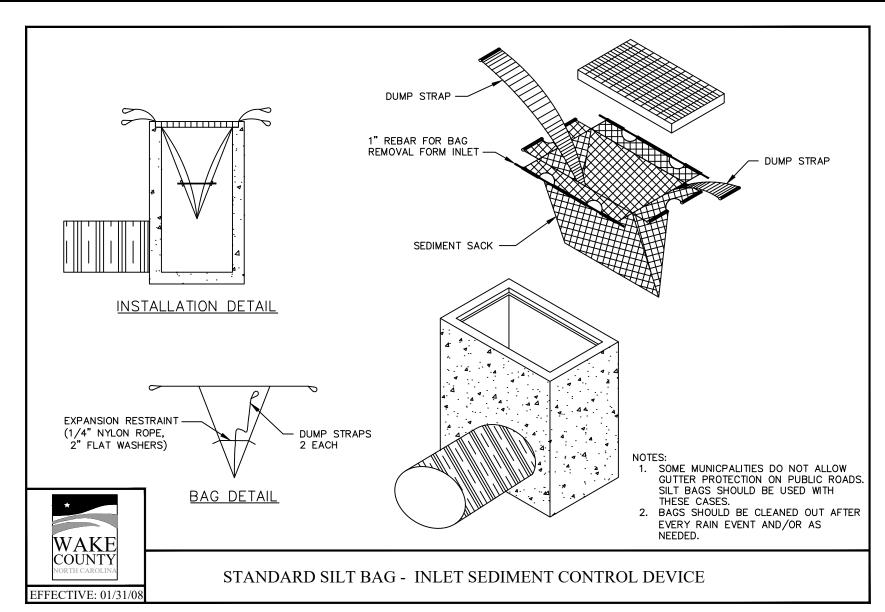




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| a. Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirement | I 0 | Job Code |
| established in the Standard Specifications of the Town of Knightdale. By: Date: | The | Dwg |
| Town Engineer These plans are approved by the Town of Knightdale and serve as construction plans project. | for this | SI [°] |
| By: Date: Land Use Administrator | opyright (| 70 |
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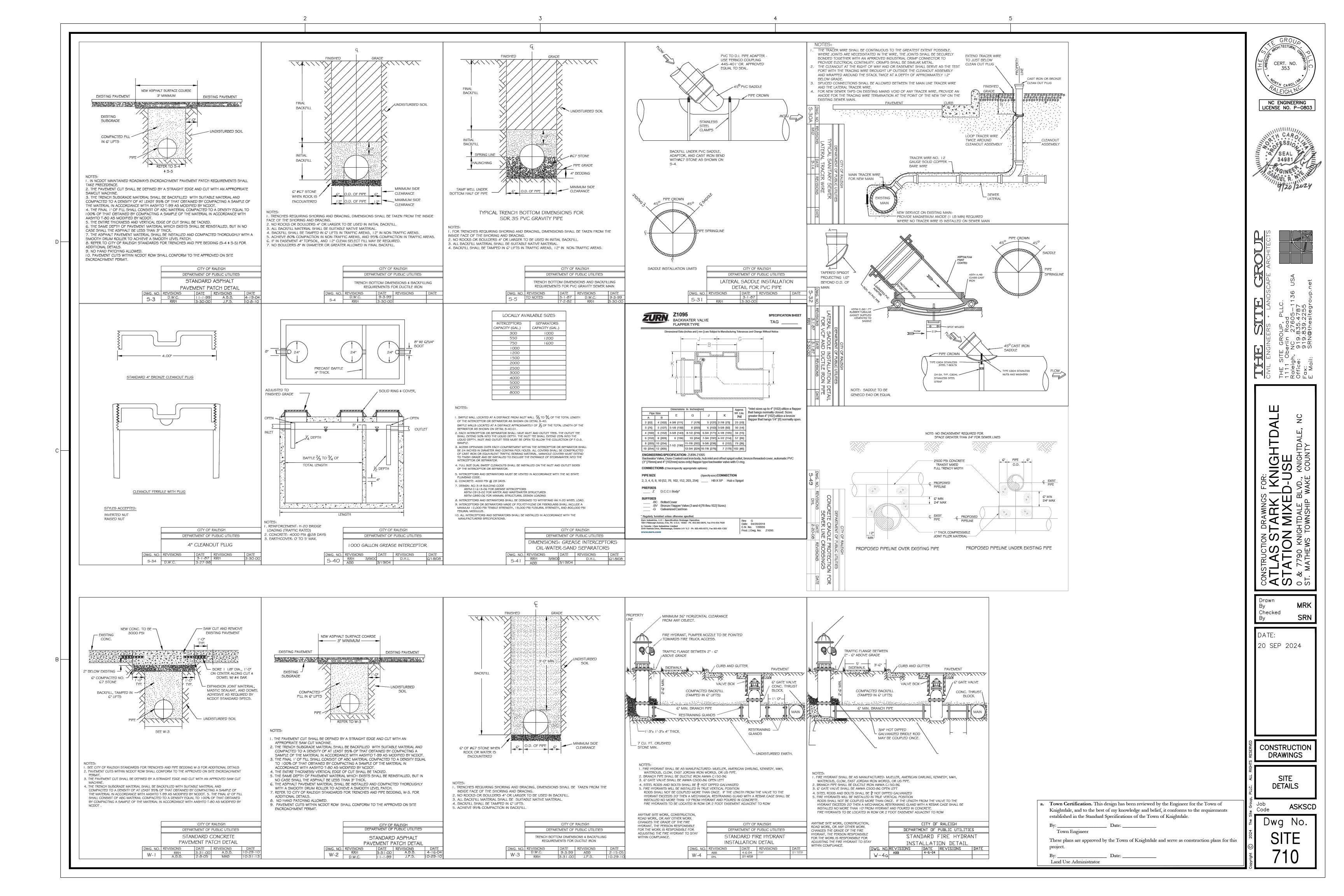
| NC ENGINEERING LICENSE NO. P-0803 |
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| SEAL STATES |
| THE SITE GROUP, PLLC. THE SITE GROUP. THE |
| DRAWNGS FOR: TARK KNIGHTDALE MIXED-USE GHTDALE BLVD., KNIGHTDALE, NC TOWNSHIP WAKE COUNTY |
| CONSTRUCTION CONSTRUCTION ATLAS ST ATLAS SU Drawn BATLAS SU NATHEWS TO ST. MATHEWS TO ST. MATHEWS TO |
| DATE: 12 JAN 2024 REVISED: 12 1 FEB 2024 2 12 APR 2024 3 14 JUN 2024 4 02 AUG 2024 |
| CONSTRUCTION DRAWINGS |
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| bright (2) 202 The SITE DETAILS Job Code ASKSCD Job Code No. Dwg No. SITE DETAILS ASKSCD Dwg No. SITE Job Code No. SITE Job COD COD COD COD COD COD COD COD |

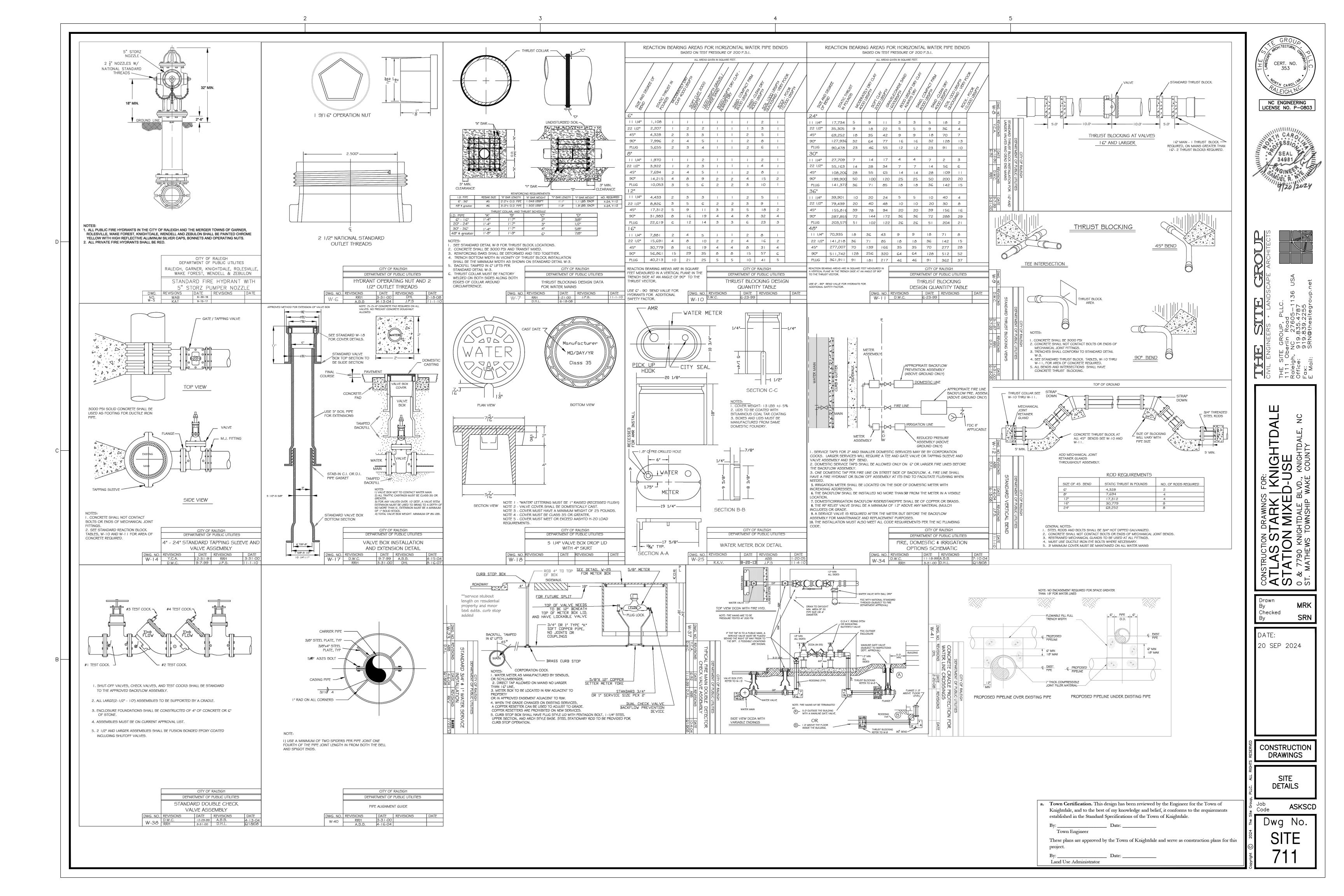


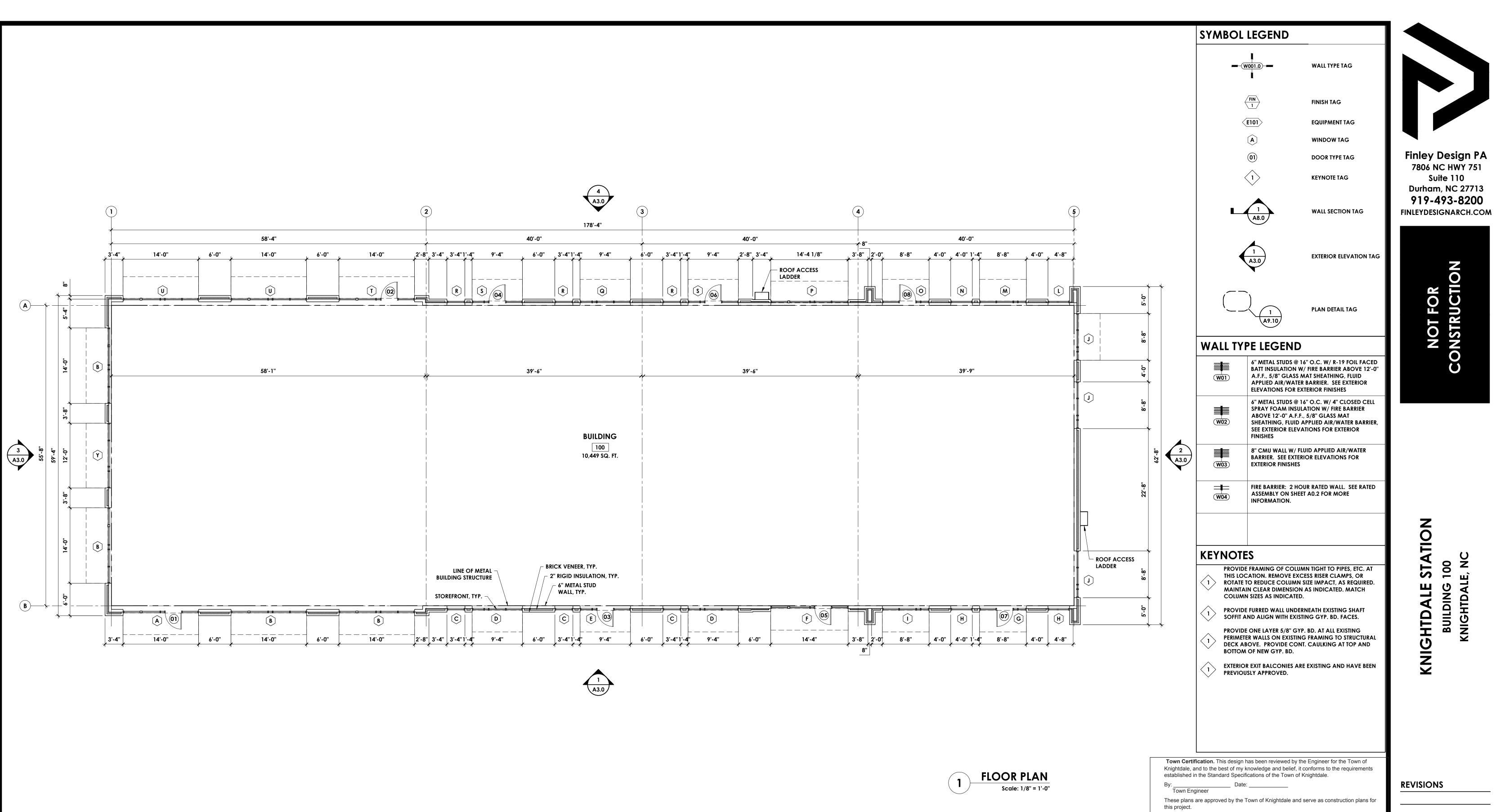


| CERT. NO. JUNE CERT. NO. 353 CERT. NO. 200 CERT. NO. 20 | |
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| THE SITE GROUP, PLLC. CIVIL ENGINEERS LANDSCAPE ARCHITECTS CIVIL ENGINEERS LANDSCAPE ARCHITECTS THE SITE GROUP, PLLC. 1111 Oberlin Road Raleigh, NC 27605-1136 USA 0ffice: 919.835.4787 Fax: 919.835.4787 Fax: 919.835.255 F Mail. SRN@thesitedroup.net | |
| CONSTRUCTION DRAWINGS FOR: ATLAS STARK KNIGHTDALE STATION MIXED-USE 0 & 7790 KNIGHTDALE BLVD., KNIGHTDALE, NC ST. MATHEWS TOWNSHIP WAKE COUNTY | |
| Drawn By MRK Checked By SRN DATE: 12 APR 2024 REVISED: 1 09 MAY 2024 2 14 JUN 2024 3 02 AUG 2024 | |
| Aught (2) 2021 The strength of the server of | |

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| a. | Town Certification. This design has been reviewed by the Engineer for the Town of | | Group, |
| | 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. | i | Site |
| | By: Date: | | The |
| | Town Engineer | | 2024 |
| | These plans are approved by the Town of Knightdale and serve as construction plans for this project. | | ට |
| | By: Date: Land Use Administrator | | oyright |







By: _ Date: Land Use Administrator

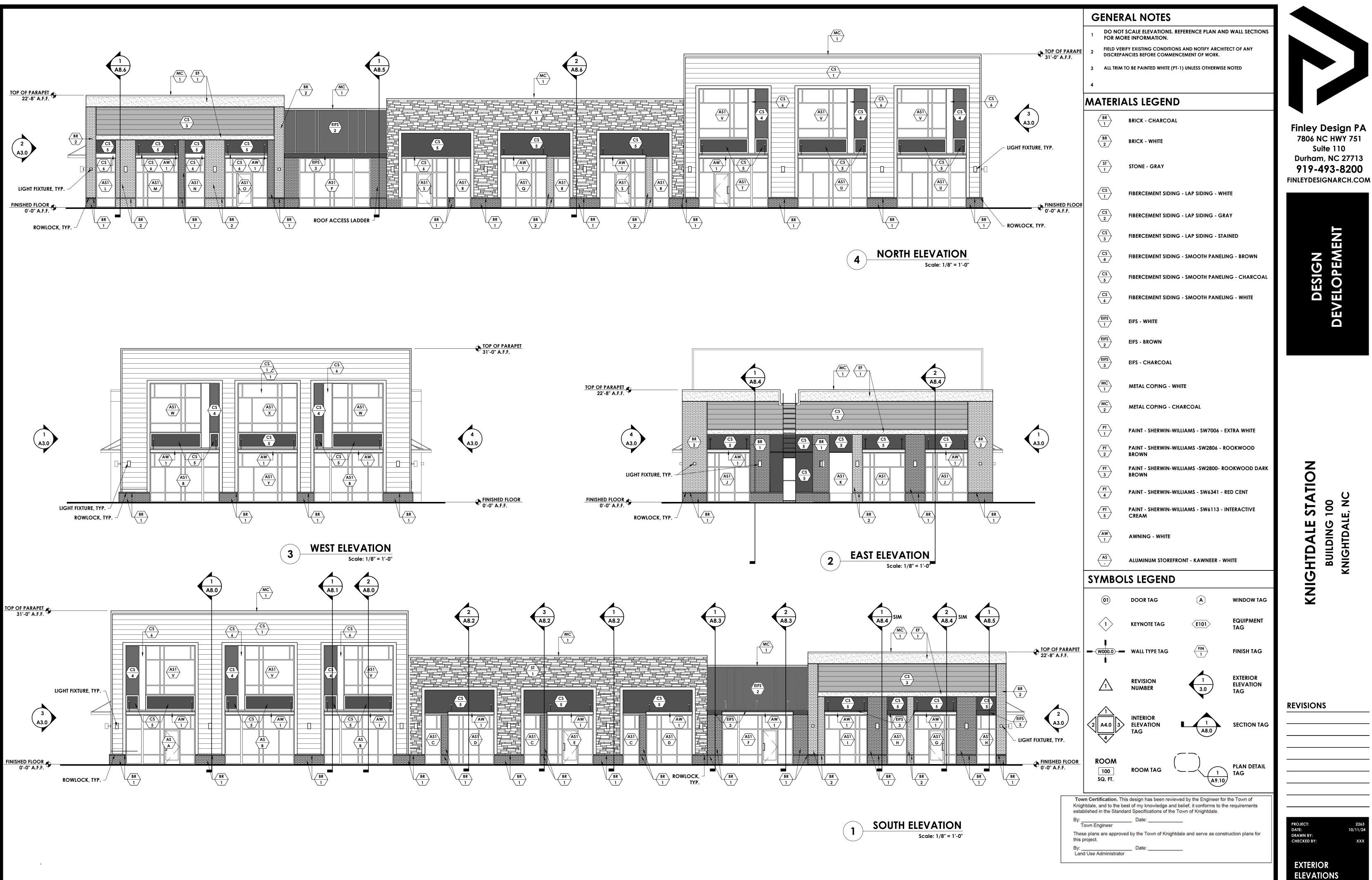
FLOOR PLAN

PROJECT:

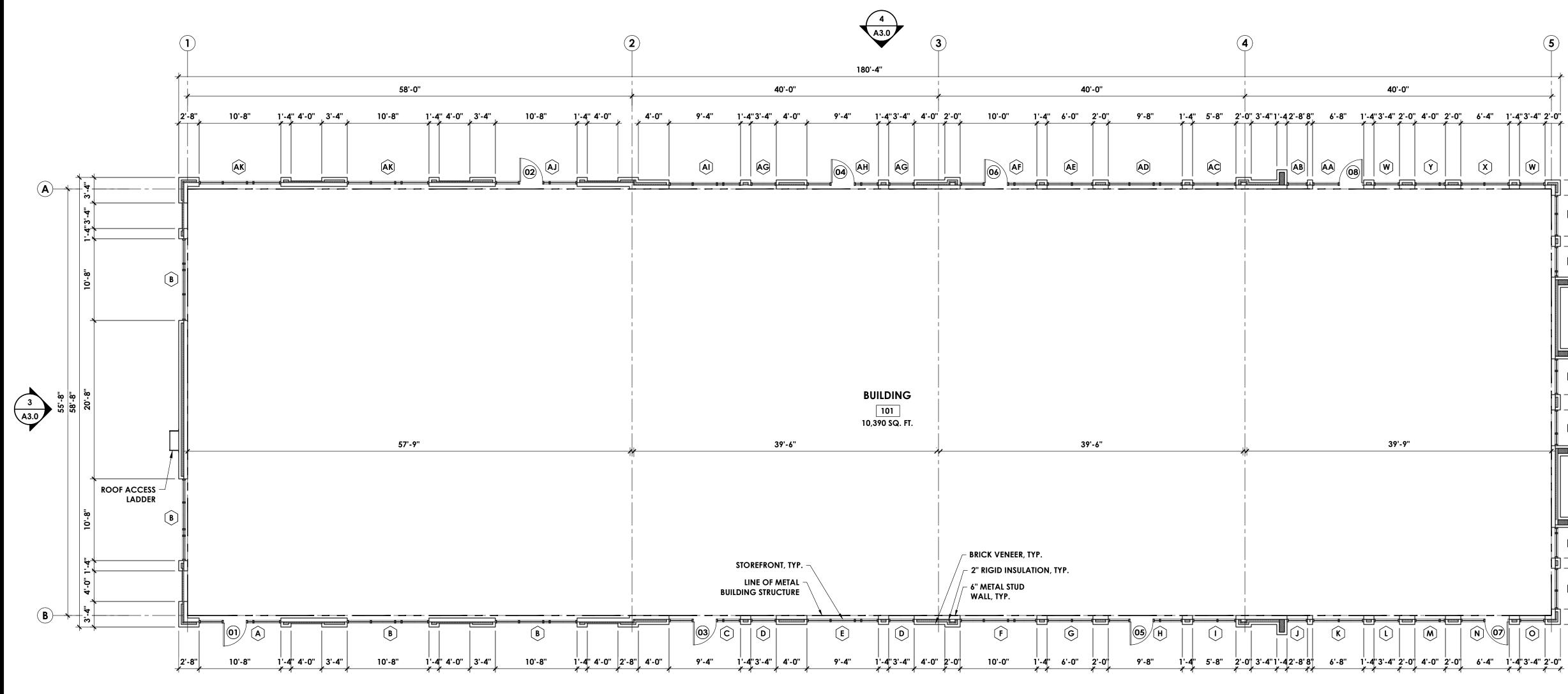
DATE: DRAWN BY: CHECKED BY:

2263 9/12/24

XXX

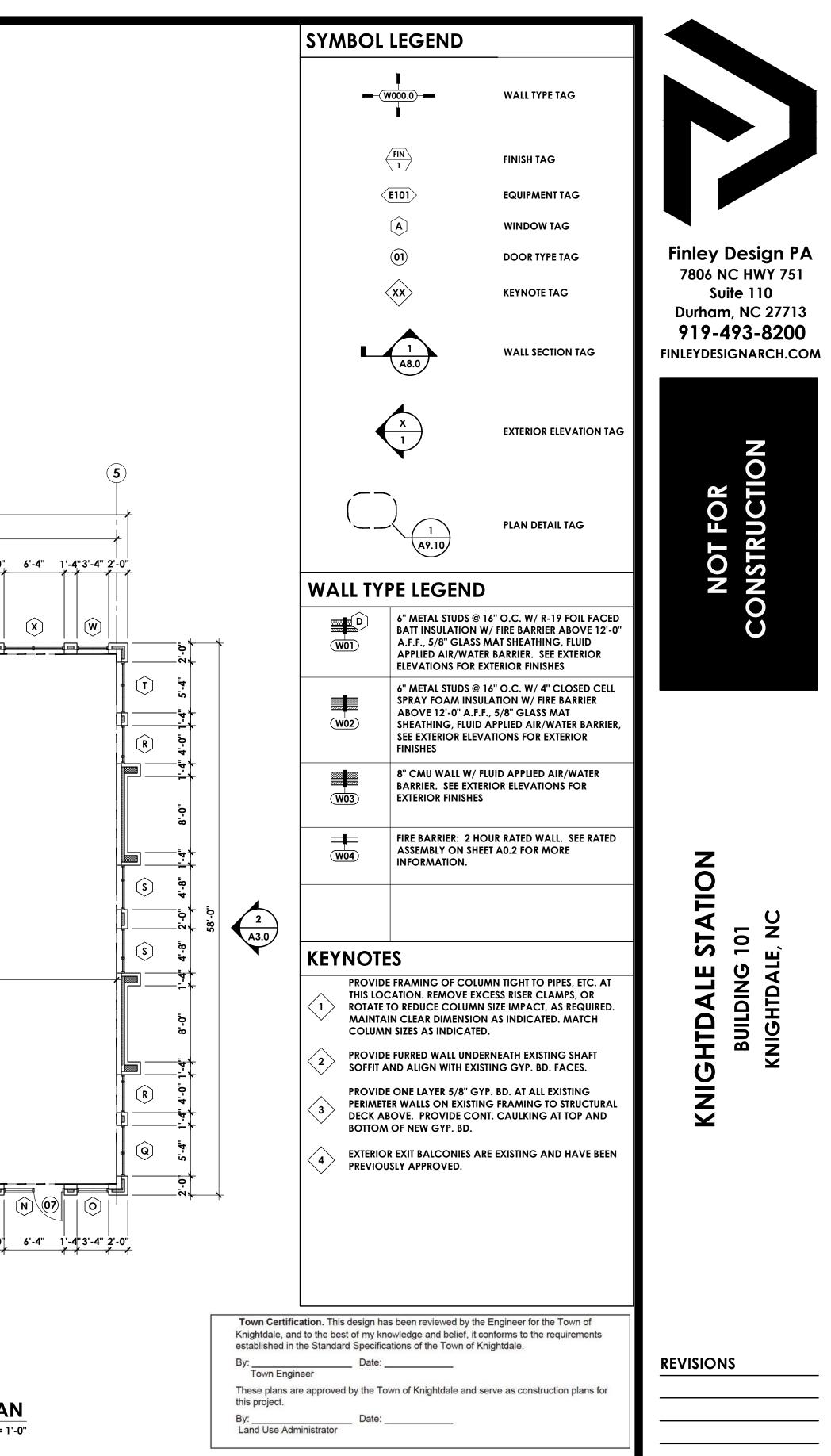


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| EVISIONS | |
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| PROJECT: DATE: DRAWN BY: CHECKED BY: | 2263 10/11/24 XXX |
| EXTERIOR | |
| ELEVATIONS | |
| Δ20 | |



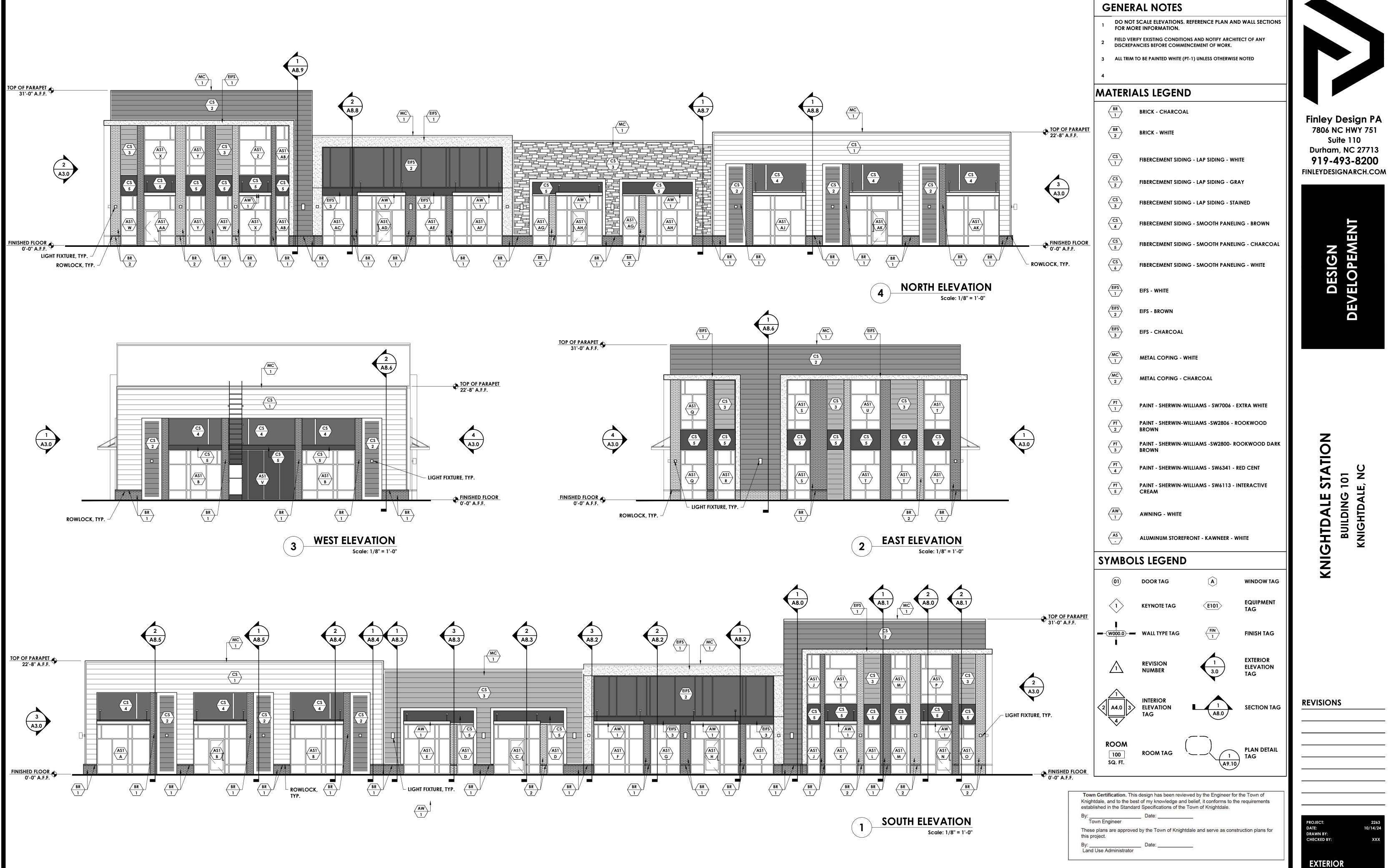
A3.0

FLOOR PLAN Scale: 1/8" = 1'-0"



2263 10/14/24 DATE: DRAWN BY: CHECKED BY: XXX FLOOR PLAN

PROJECT:



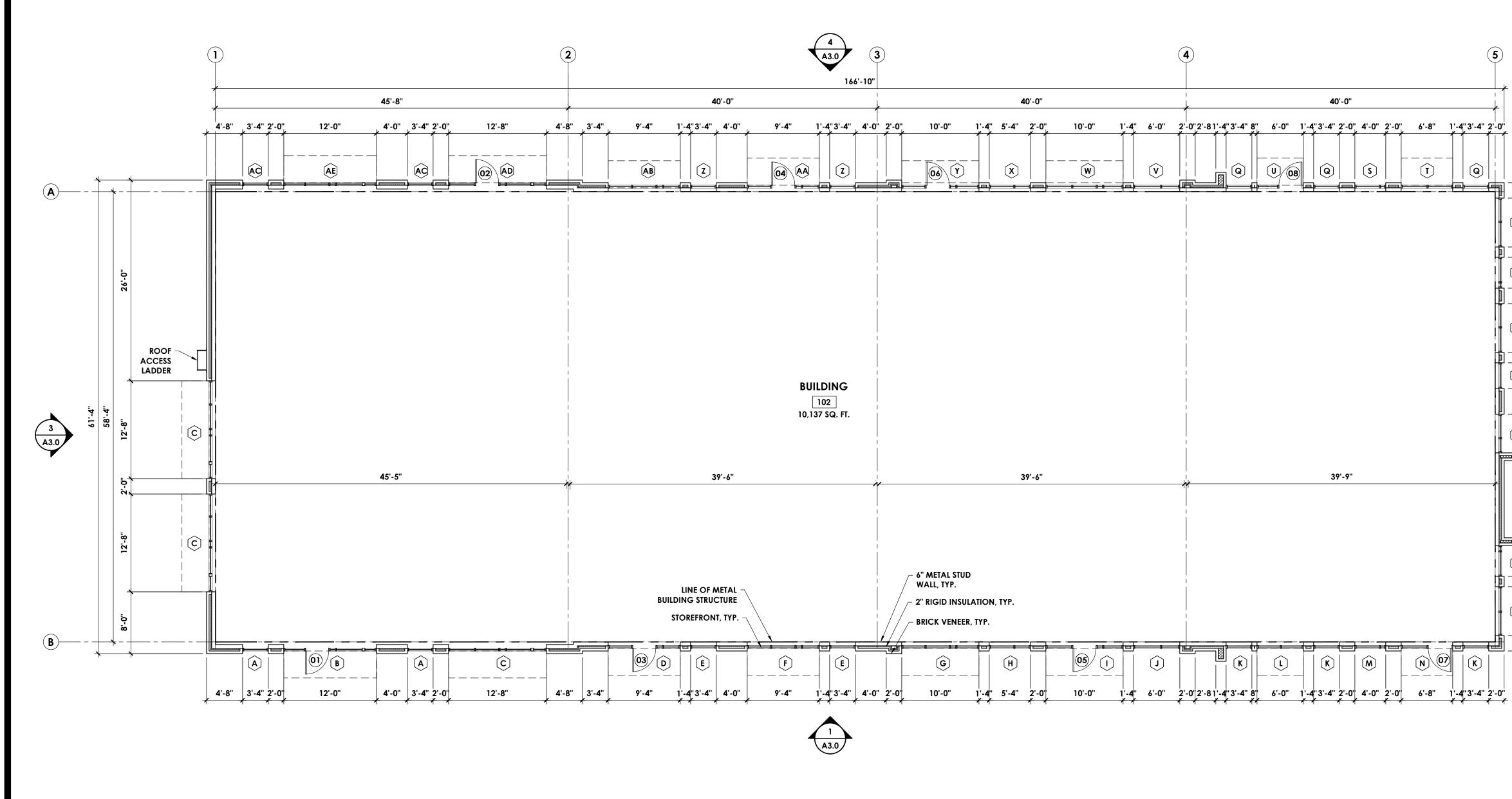


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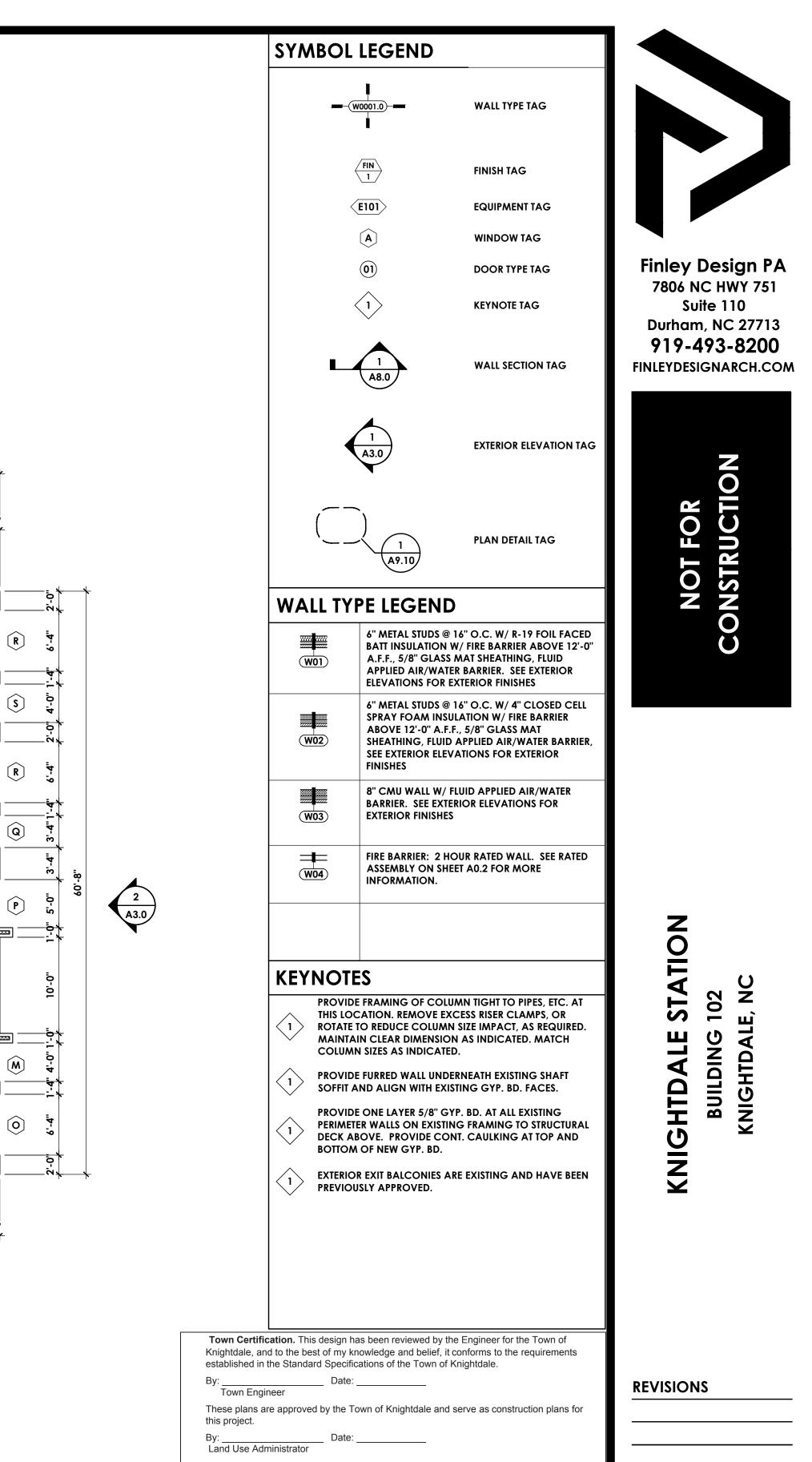
2263 10/14/24

ELEVATIONS

A2.0

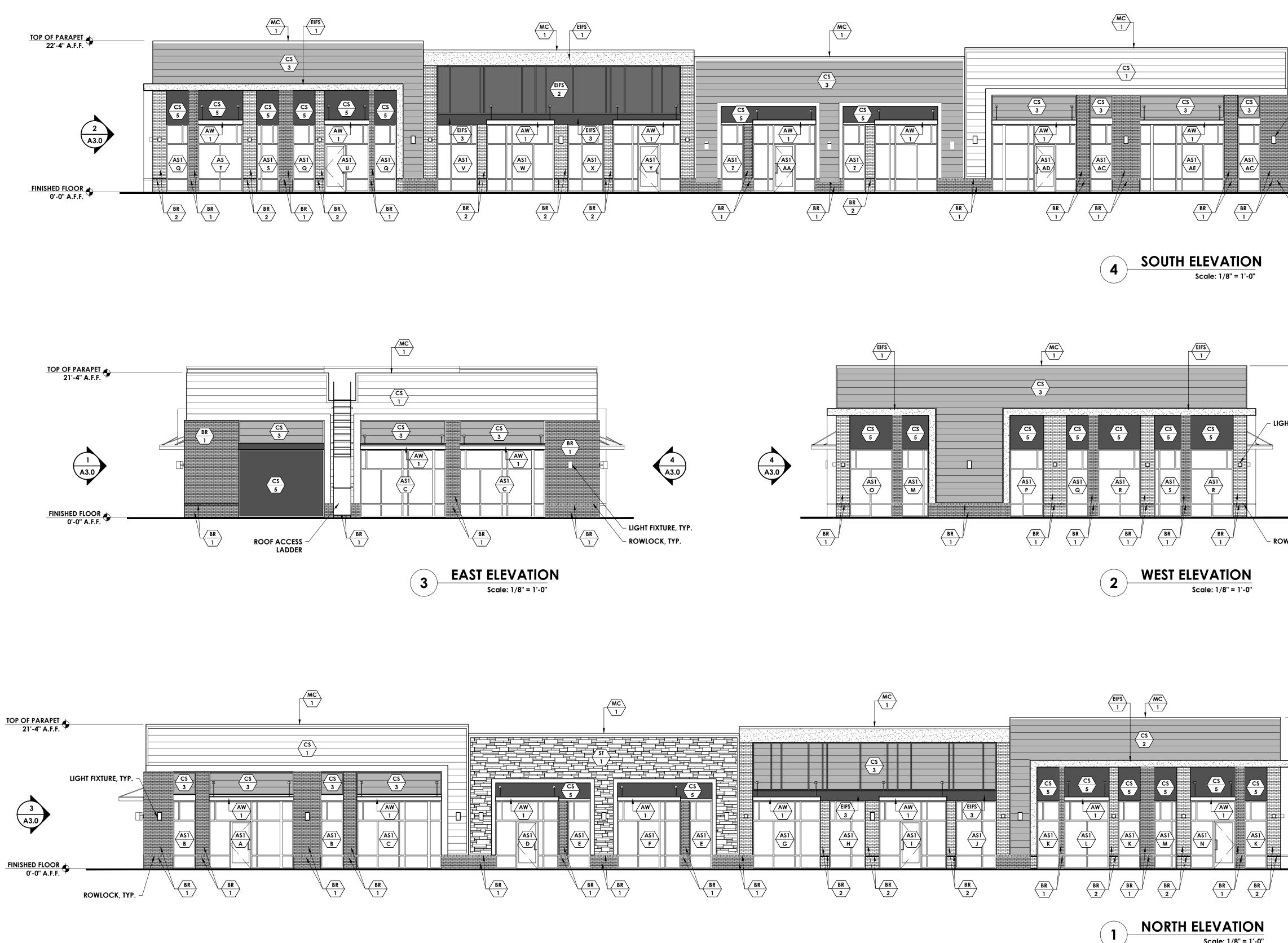


FLOOR PLAN Scale: 1/8" = 1'-0"



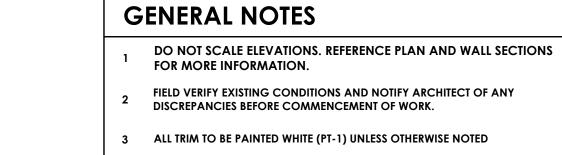
2263 7/31/24 ROJECT: DATE: DRAWN BY: CHECKED BY: XXX

FLOOR PLAN





NORTH ELEVATION Scale: 1/8" = 1'-0"

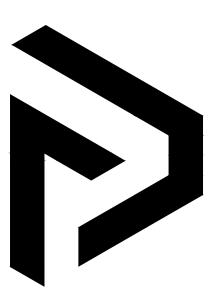


MATERIALS LEGEND

| • <u>TOP OF PARAPE</u> 21'-4" A.F.F. | | E |
|---|---|----|
| LIGHT FIXTURE, TYP. | BR 2 | B |
| | ST 1 | 5 |
| | $\langle \frac{CS}{1} \rangle$ | F |
| FINISHED FLOOR 0'-0" A.F.F. | $\frac{1}{2}$ | F |
| ROWLOCK, TYP. | | F |
| | | F |
| | | F |
| | | F |
| | EIFS 1 | E |
| • TOP OF PARAPET 22'-4" A.F.F. | EIFS 2 | E |
| | EIFS 3 | E |
| GHT FIXTURE, TYP. | | ľ |
| 1 A3.0 | MC 2 | ľ |
| \mathbf{Y} | PT 1 | P |
| FINISHED FLOOR 0'-0" A.F.F. | | F |
| OWLOCK, TYP. | | F |
| | 4 | P |
| | PT 5 | F |
| | | 4 |
| | <u>AS</u> - | / |
| | SYMBOL | |
| <u>TOP OF PARAPET</u> 22'-4" A.F.F. | 01 | |
| केन्द्र | | |
| 2 | | |
| | | |
| _ | | |
| O'-O" A.F.F. | | |
| | ROOM 100 SQ. FT. | - |
| | Town Certification. Thi Knightdale, and to the be established in the Standa By: Town Engineer | 25 |
| | These plans are approve | C |

By: _____ Date: _____ Land Use Administrator

| | LS LEGEN | | |
|--|---|--|------------------------------|
| | BRICK - CHARCO | AL | |
| $\left\langle \begin{array}{c} BR \\ 2 \end{array} \right\rangle$ | BRICK - WHITE | | |
| $\left\langle \begin{array}{c} \mathbf{ST} \\ 1 \end{array} \right\rangle$ | STONE - GRAY | | |
| $\left< \frac{\text{CS}}{1} \right>$ | FIBERCEMENT SID | ING - LAP SIDING - WHIT | E |
| | FIBERCEMENT SID | ING - LAP SIDING - GRA | Y |
| | FIBERCEMENT SID | ING - LAP SIDING - STAIN | NED |
| | FIBERCEMENT SID | NG - SMOOTH PANELIN | G - BROWN |
| | FIBERCEMENT SID | NG - SMOOTH PANELIN | G - CHARCOA |
| FIBERCEMENT SIDING - SMOOTH PANELING - WHITE | | | |
| EIFS 1 | EIFS - WHITE | | |
| EIFS 2 | EIFS - BROWN | | |
| EIFS 3 | EIFS - CHARCOAL | | |
| | METAL COPING - | WHITE | |
| | METAL COPING - | CHARCOAL | |
| $\left\langle \begin{array}{c} \mathbf{PT} \\ 1 \end{array} \right\rangle$ | PAINT - SHERWIN- | WILLIAMS - SW7006 - EX | TRA WHITE |
| PT 2 | PAINT - SHERWIN- BROWN | WILLIAMS -SW2806 - RO | OKWOOD |
| PT 3 | PAINT - SHERWIN- BROWN | WILLIAMS -SW2800- ROO | OKWOOD DARI |
| PT 4 | PAINT - SHERWIN- | WILLIAMS - SW6341 - RE | D CENT |
| PT 5 | PAINT - SHERWIN- CREAM | WILLIAMS - SW6113 - IN | TERACTIVE |
| | AWNING - WHITE | | |
| AS - | ALUMINUM STORE | FRONT - KAWNEER - WH | IITE |
| SYMBOL | S LEGENI | 0 | |
| 01) | DOOR TAG | Â | WINDOW TAG |
| | KEYNOTE TAG | E101 | EQUIPMENT TAG |
| | WALL TYPE TAG | FIN 1 | FINISH TAG |
| $\underline{1}$ | REVISION NUMBER | 1 3.0 | EXTERIOR ELEVATION TAG |
| 2 A4.0 3 | INTERIOR ELEVATION TAG | 1 A8.0 | SECTION TAG |
| ROOM 100 SQ. FT. | ROOM TAG | () 1 A9.10 | PLAN DETAIL TAG |
| ghtdale, and to the b ablished in the Stand Town Engineer | est of my knowledge ard Specifications of Date: | eviewed by the Engineer for and belief, it conforms to the the Town of Knightdale. | e requirements |



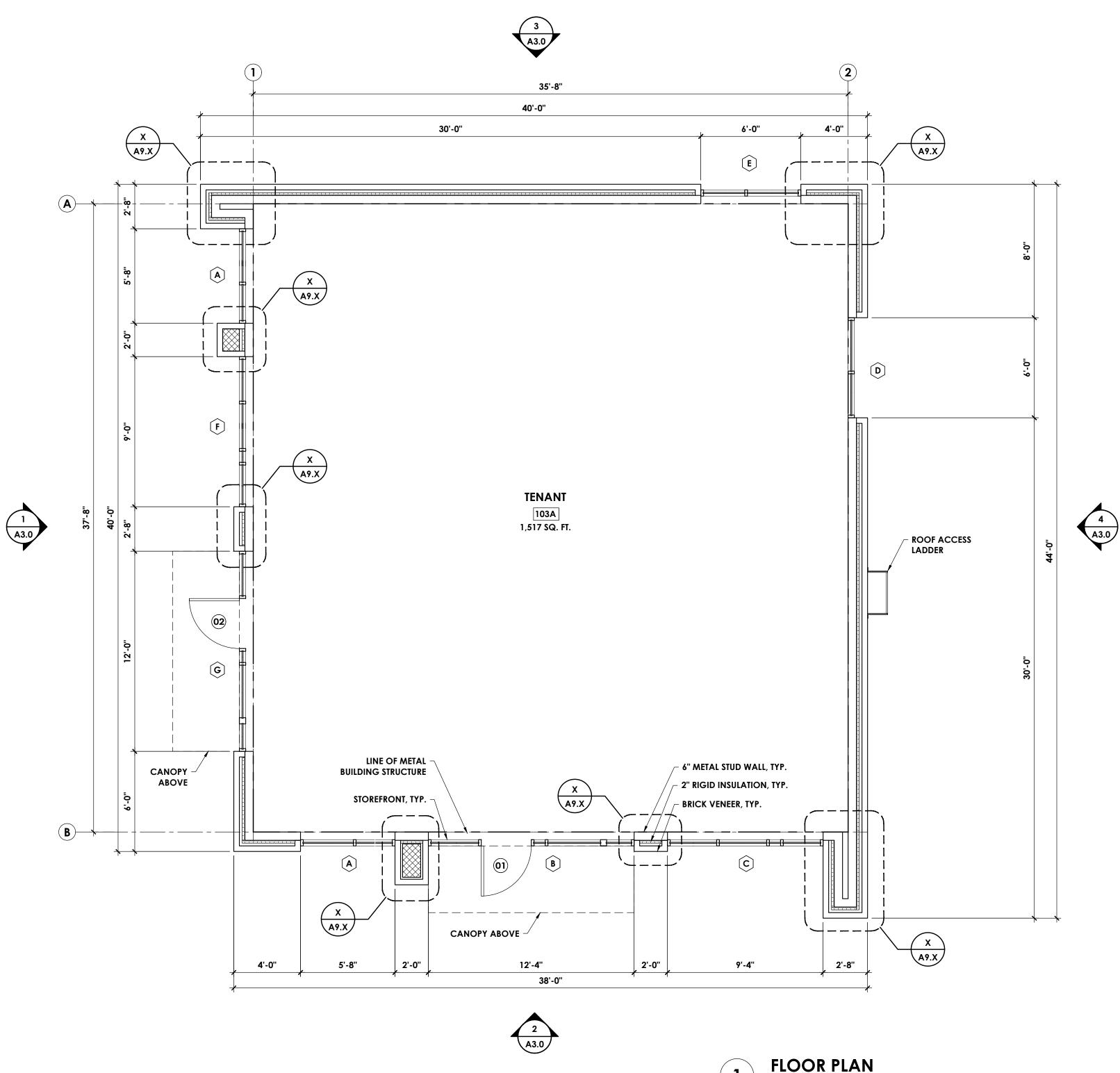
Finley Design PA 7806 NC HWY 751 Suite 110 Durham, NC 27713 919-493-8200 FINLEYDESIGNARCH.COM



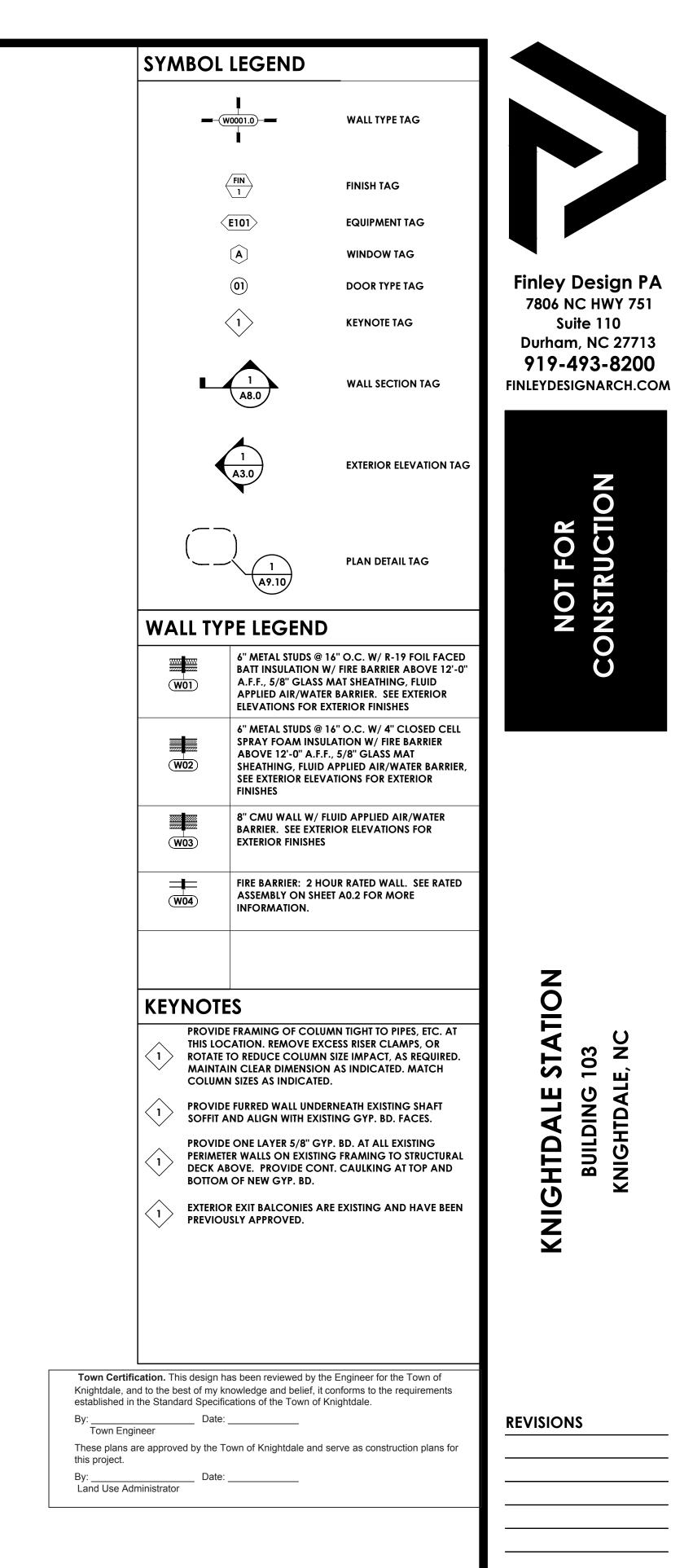
STATION C й Ш 102 BUILDING **KNIGHTDALE**

REVISIONS PROJECT: DATE: DRAWN BY: CHECKED BY: 2263 10/14/24 XXX EXTERIOR ELEVATIONS A2.0

JERS/SHARED/FINLEY DESIGN/PROJECTS/2263 KNIGHTDALE STATION/DRAWINGS/BLDG 103/2263 BLDG 103 - FLOOR PLAN.DWG



FLOOR PLAN Scale: 1/4" = 1'-0"



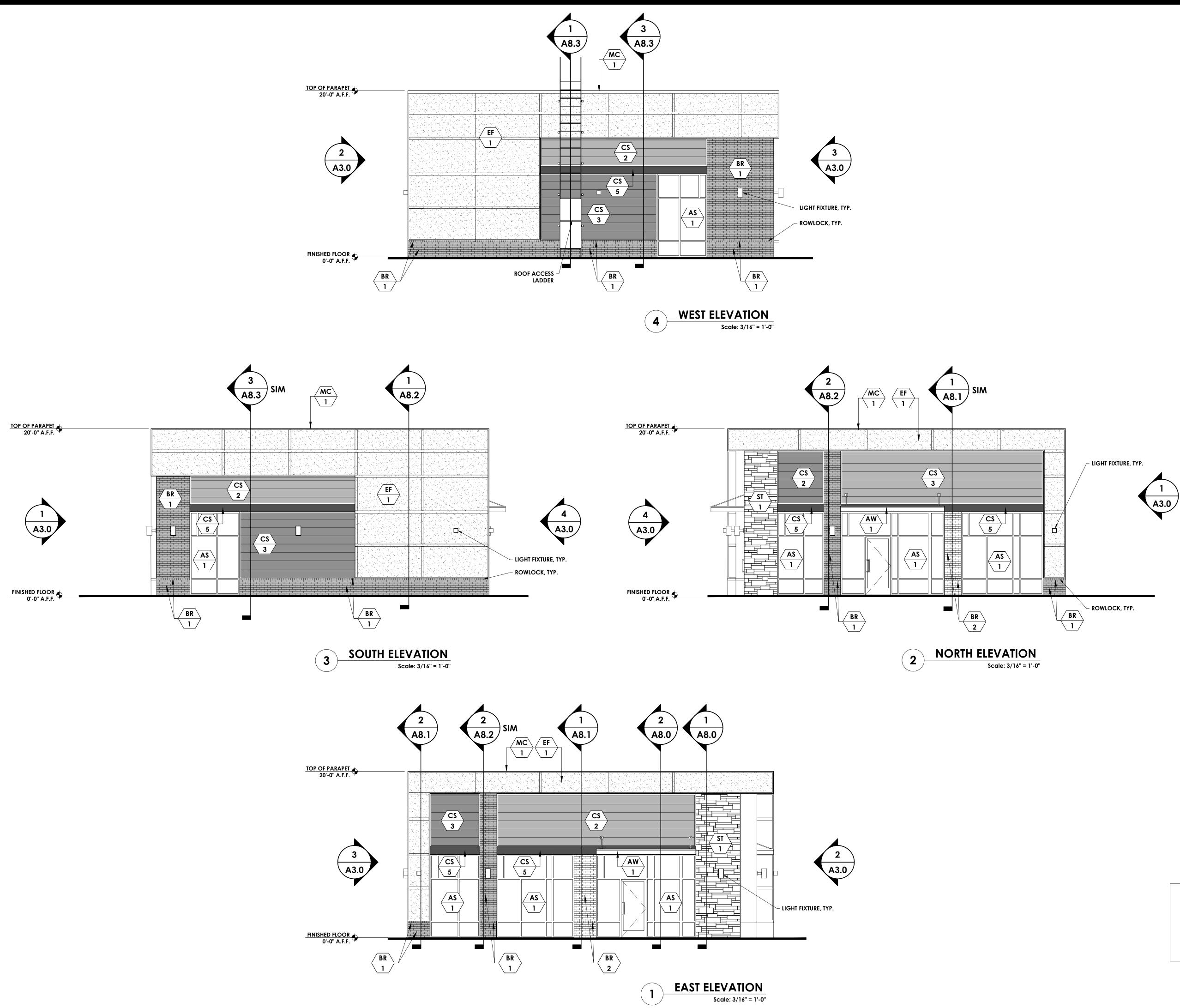
2263 7/31/24

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PROJECT:

DATE: DRAWN BY: CHECKED BY:

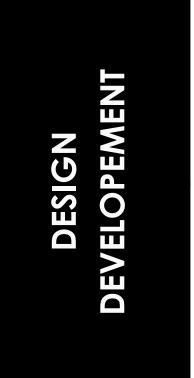
FLOOR PLAN



| 1 1 | CALE ELEVATIONS. RI E INFORMATION. | EFERENCE PLAN AND | WALL SECTION |
|--|--|---------------------------|------------------------------|
| 1 2 | Y EXISTING CONDITION ICIES BEFORE COMMEN | | ECT OF ANY |
| | D BE PAINTED WHITE (PT- | - | |
| 4 REQUIREME | 103 IS NOT REQUIRED TO NTS OUTLINED IN Section E PER ORDINANCE #23 | on 6.8 OF THE UNIFIED D | |
| | LS LEGEND | | |
| | BRICK - CHARCOAL | | |
| BR 2 | BRICK - WHITE | | |
| ST 1 | STONE - GRAY | | |
| | FIBERCEMENT SIDING | G - LAP SIDING - WH | TE |
| $\left\langle \begin{array}{c} CS\\ 2 \end{array} \right\rangle$ | FIBERCEMENT SIDING | G - LAP SIDING - GRA | λY |
| | FIBERCEMENT SIDING | G - LAP SIDING - STA | INED |
| | FIBERCEMENT SIDING | G - SMOOTH PANELIN | NG - BROWN |
| | FIBERCEMENT SIDING | - SMOOTH PANELIN | NG - CHARCOA |
| | FIBERCEMENT SIDING | G - SMOOTH PANELIN | NG - WHITE |
| EIFS 1 | EIFS - WHITE | | |
| EIFS 2 | EIFS - BROWN | | |
| EIFS 3 | EIFS - CHARCOAL | | |
| | METAL COPING - WH | IITE | |
| | METAL COPING - CH | IARCOAL | |
| PT 1 | PAINT - SHERWIN-WI | LLIAMS - SW7006 - E | XTRA WHITE |
| PT 2 | PAINT - SHERWIN-WI BROWN | LLIAMS -SW2806 - R(| OOKWOOD |
| PT 3 | PAINT - SHERWIN-WI BROWN | LLIAMS -SW2800- RC | OKWOOD DAR |
| PT 4 | PAINT - SHERWIN-WI | LLIAMS - SW6341 - R | ED CENT |
| PT 5 | PAINT - SHERWIN-WI CREAM | LLIAMS - SW6113 - II | NTERACTIVE |
| AW 1 | AWNING - WHITE | | |
| AS · | ALUMINUM STOREFR | ONT - KAWNEER - W | HITE |
| SYMBOL | S LEGEND | | |
| 01 | DOOR TAG | Â | WINDOW TAG |
| | KEYNOTE TAG | E101 | EQUIPMENT TAG |
| | WALL TYPE TAG | FIN 1 | FINISH TAG |
| | REVISION NUMBER | 1 | EXTERIOR ELEVATION TAG |
| | INTERIOR ELEVATION TAG | 1 A8.0 | SECTION TAG |
| ROOM 100 SQ. FT. | ROOM TAG |) 1 | PLAN DETAIL TAG |
| dale, and to the best | lesign has been reviewe of my knowledge and b Specifications of the To | elief, it conforms to the | |

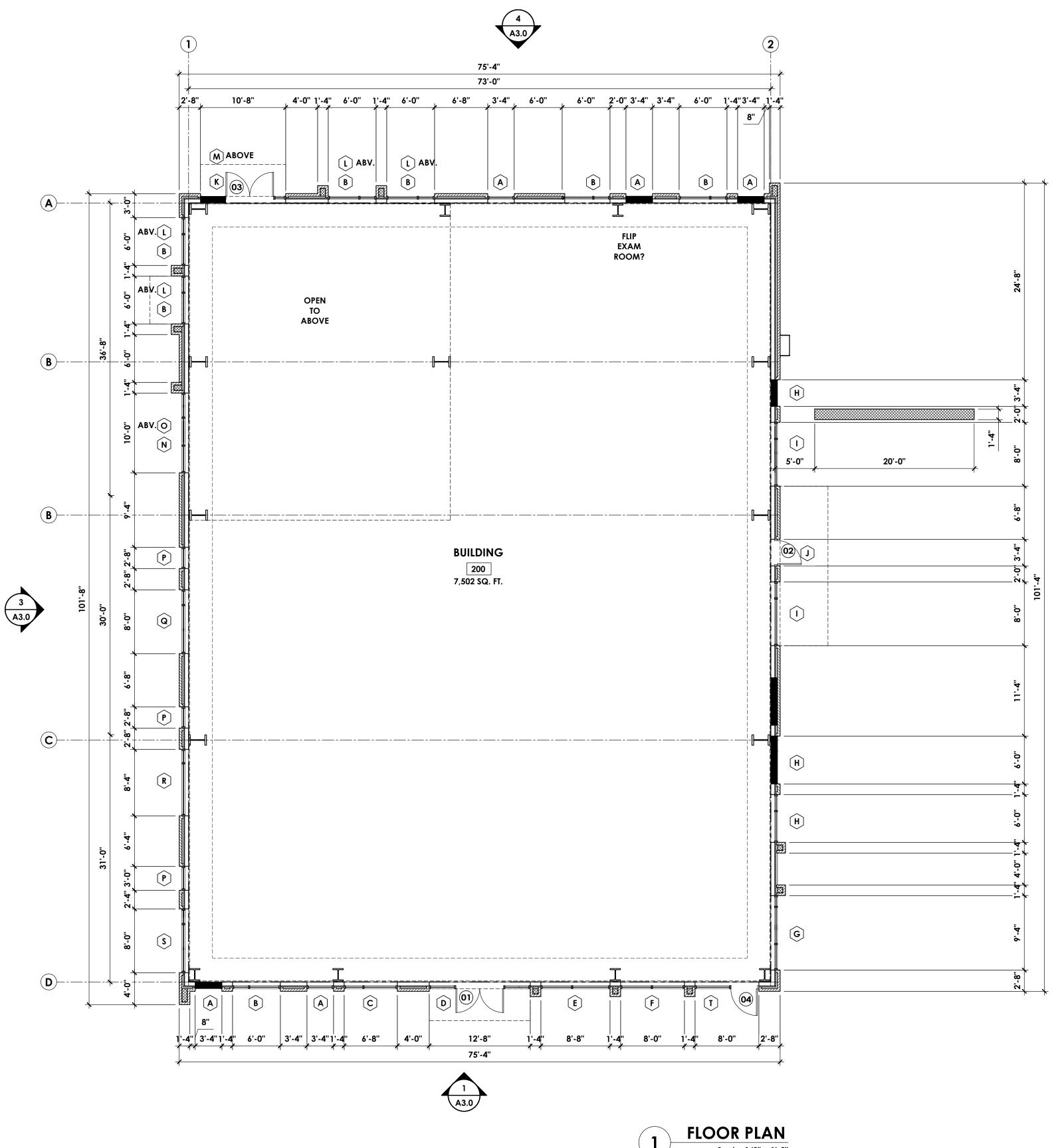


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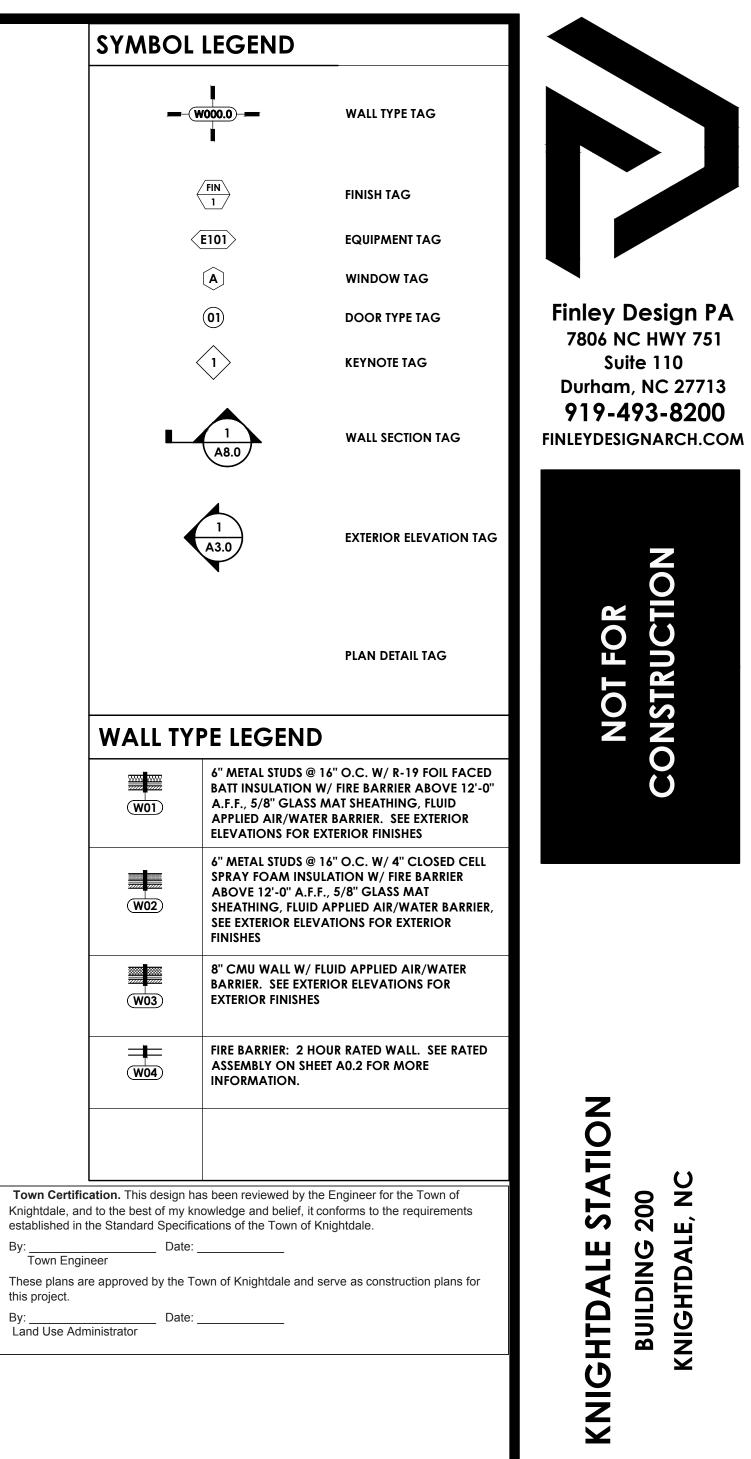


KNIGHTDALE STATION BUILDING 103 KNIGHTDALE, NC

| REVISIONS | |
|-----------------------------------|----------------|
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| PROJECT: | 2263 |
| DATE: DRAWN BY: CHECKED BY: | 9/12/24 XXX |
| | |
| EXTERIOR ELEVATIONS | |
| A20 | |
| AZ.U | |



FLOOR PLAN Scale: 1/8" = 1'-0"



By: _____ Date: _____ Town Engineer

2 A3.0

These plans are approved by the Town of Knightdale and serve as construction plans for this project.

By: _____ Date: _____ Land Use Administrator

REVISIONS

PROJECT: DATE: DRAWN BY: CHECKED BY:

FLOOR PLAN

A1.0

2263 9/13/24









GENERAL NOTES

- DO NOT SCALE ELEVATIONS. REFERENCE PLAN AND WALL SECTIONS FOR MORE INFORMATION.
- FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE COMMENCEMENT OF WORK.
- 3 ALL TRIM TO BE PAINTED WHITE (PT-1) UNLESS OTHERWISE NOTED

MATERIALS LEGEND

| | ALS LEGEND | |
|---|--|------------------------------|
| BR 1 | BRICK - CHARCOAL | |
| BR 2 | BRICK - WHITE | |
| ST 1 | STONE - GRAY | |
| | FIBERCEMENT SIDING - LAP SIDING - | WHITE |
| $\left< \frac{CS}{2} \right>$ | FIBERCEMENT SIDING - LAP SIDING - | GRAY |
| $\langle CS \\ 3 \rangle$ | FIBERCEMENT SIDING - LAP SIDING - | STAINED |
| | FIBERCEMENT SIDING - SMOOTH PAN | NELING - BROWN |
| | FIBERCEMENT SIDING - SMOOTH PAN | NELING - CHARCOAL |
| | FIBERCEMENT SIDING - SMOOTH PAN | NELING - WHITE |
| EIFS 1 | EIFS - WHITE | |
| EIFS 2 | EIFS - BROWN | |
| EIFS 3 | EIFS - CHARCOAL | |
| | METAL COPING - WHITE | |
| | METAL COPING - CHARCOAL | |
| $\begin{pmatrix} PT \\ 1 \end{pmatrix}$ | PAINT - SHERWIN-WILLIAMS - SW700 | 6 - EXTRA WHITE |
| PT 2 | PAINT - SHERWIN-WILLIAMS -SW2806 BROWN | - ROOKWOOD |
| | PAINT - SHERWIN-WILLIAMS -SW2800 BROWN |)- ROOKWOOD DARK |
| PT 4 | PAINT - SHERWIN-WILLIAMS - SW634 | 1 - RED CENT |
| PT 5 | PAINT - SHERWIN-WILLIAMS - SW611 CREAM | 3 - INTERACTIVE |
| AW 1 | AWNING - WHITE | |
| AS - | ALUMINUM STOREFRONT - KAWNEER | e - WHITE |
| SYMBO | LS LEGEND | |
| 01 | DOOR TAG | WINDOW TAG |
| | KEYNOTE TAG | EQUIPMENT TAG |
| | WALL TYPE TAG | FINISH TAG |
| | REVISION NUMBER | EXTERIOR ELEVATION TAG |
| 2 A4.0 3 | INTERIOR ELEVATION TAG | SECTION TAG |
| ROOM 100 SQ. FT. | | PLAN DETAIL TAG |
| ale, and to the bes | design has been reviewed by the Enginee t of my knowledge and belief, it conforms d Specifications of the Town of Knightdale | to the requirements |
| n Engineer | _ Date: | |
| | l by the Town of Knightdale and serve as c | construction plans for |



Finley Design PA 7806 NC HWY 751 Suite 110 Durham, NC 27713 919-493-8200 FINLEYDESIGNARCH.COM



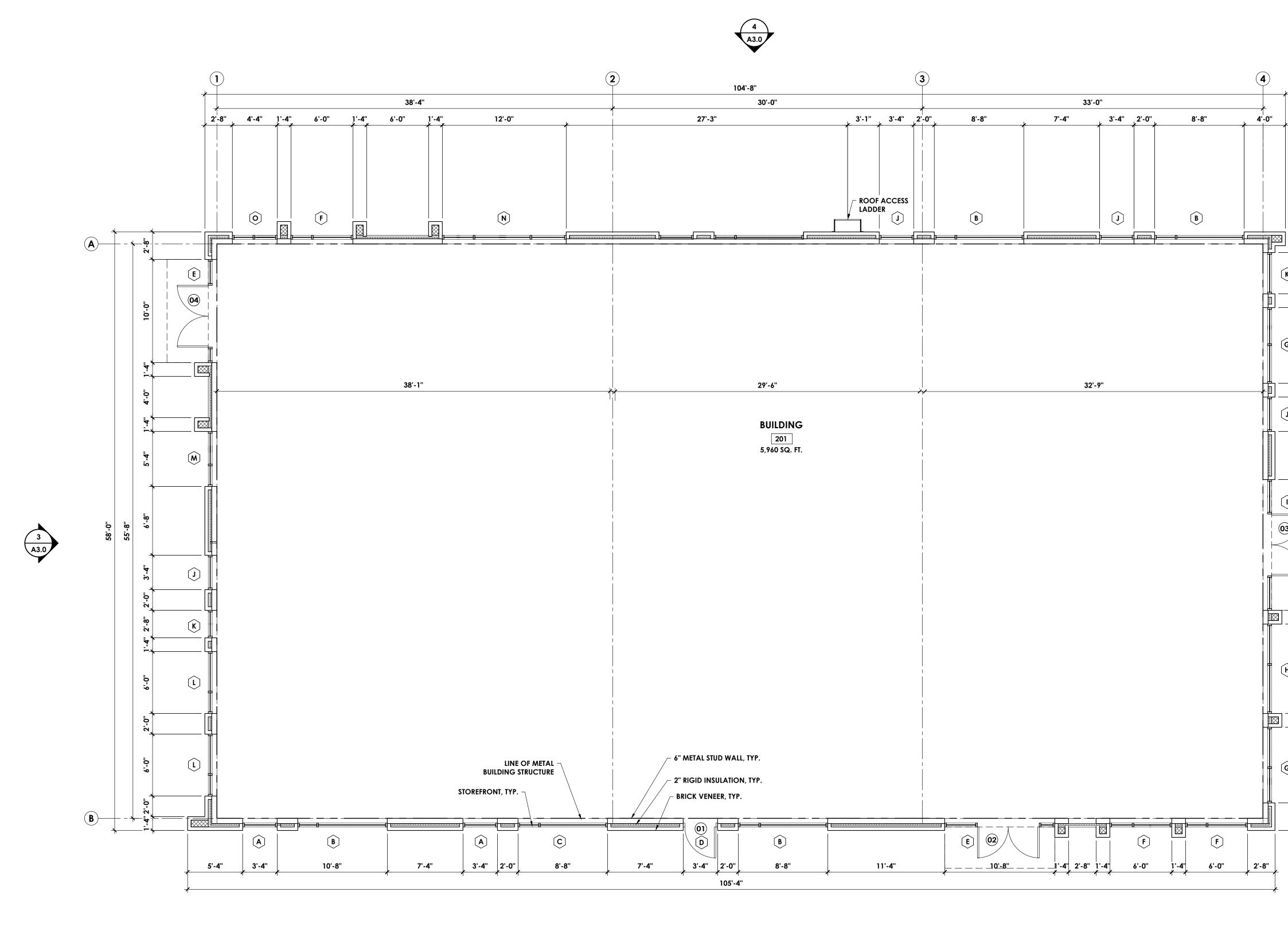
LE, NC STATION KNIGHTDALE STAI BUILDING 200 KNIGHTDA

REVISIONS

2263 9/12/24 PROJECT: DATE: DRAWN BY: CHECKED BY: TWR

EXTERIOR **ELEVATIONS**

A2.0





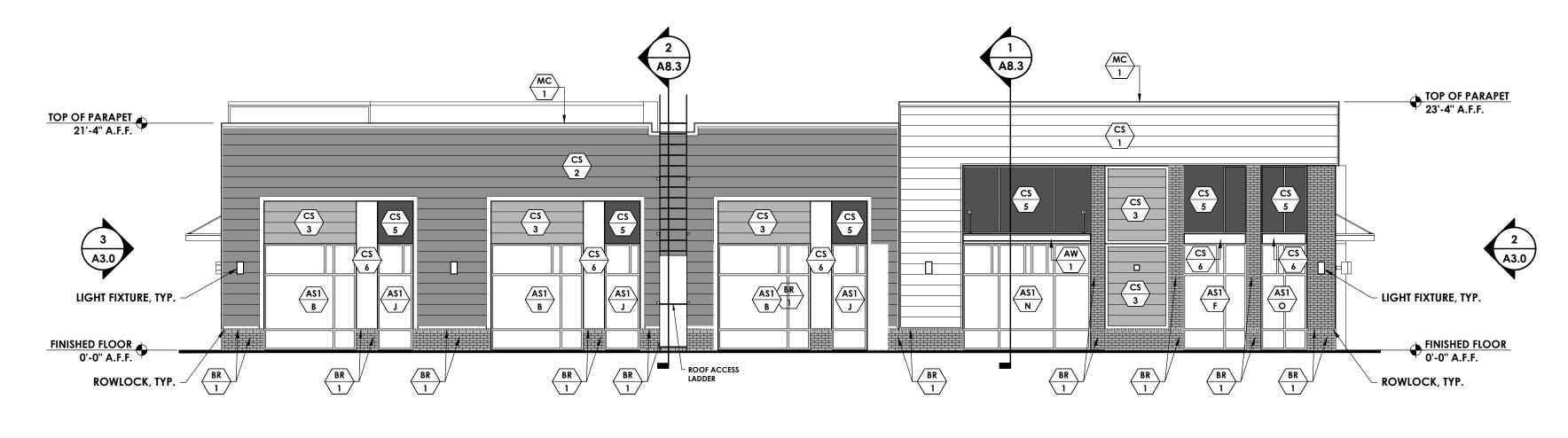


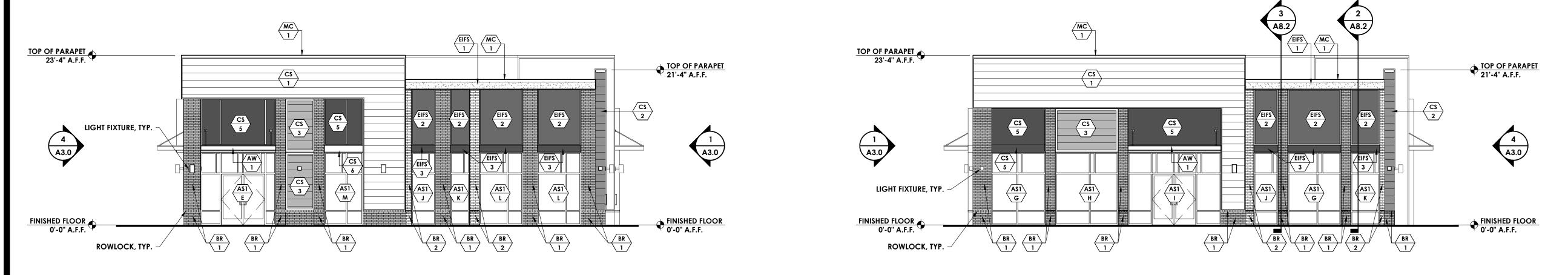
| | SYMBOL | LEGEND | | |
|---------------------------------------|--|--|---|---|
| | — -() | woo1.0) | WALL TYPE TAG | |
| | | FIN 1 | FINISH TAG | |
| | < | E101 | EQUIPMENT TAG | |
| | | A | WINDOW TAG | |
| | | 01 | DOOR TYPE TAG | Finley Design PA 7806 NC HWY 751 |
| | | | KEYNOTE TAG | Suite 110 Durham, NC 27713 |
| | | 1 A8.0 | WALL SECTION TAG | 919-493-8200 FINLEYDESIGNARCH.COM |
| | | 1 A3.0 | EXTERIOR ELEVATION TAG | NO |
| 4'-0" 8'1'-4 | | 1 (A9.10) | PLAN DETAIL TAG | DT FOR STRUCTI |
| | WALL TY | PE LEGEN | D | ON SI |
| | W01 | BATT INSULATIO A.F.F., 5/8" GLA APPLIED AIR/WA | @ 16" O.C. W/ R-19 FOIL FACED N W/ FIRE BARRIER ABOVE 12'-0" SS MAT SHEATHING, FLUID NTER BARRIER. SEE EXTERIOR R EXTERIOR FINISHES | CO |
| 34" 4" | W02 | 6" METAL STUDS SPRAY FOAM IN ABOVE 12'-0" A SHEATHING, FLU | @ 16" O.C. W/ 4" CLOSED CELL SULATION W/ FIRE BARRIER .F.F., 5/8" GLASS MAT ID APPLIED AIR/WATER BARRIER, EVATIONS FOR EXTERIOR | |
| 4-8" 3' | W03 | | / FLUID APPLIED AIR/WATER ITERIOR ELEVATIONS FOR IES | |
| | (W04) | | HOUR RATED WALL. SEE RATED HEET A0.2 FOR MORE | - |
| | | | | |
| | KEYNOT | | | ST∕ 201 E, N¢ |
| | XX ROTATE MAINTA | CATION. REMOVE | DUMN TIGHT TO PIPES, ETC. AT EXCESS RISER CLAMPS, OR MN SIZE IMPACT, AS REQUIRED. ON AS INDICATED. MATCH TED. | HTDALE ST BUILDING 201 KNIGHTDALE, N |
| | | | DERNEATH EXISTING SHAFT XISTING GYP. BD. FACES. | |
| | XX PERIMET | TER WALLS ON EXIS | GYP. BD. AT ALL EXISTING TING FRAMING TO STRUCTURAL ONT. CAULKING AT TOP AND | |
| | | OR EXIT BALCONIES USLY APPROVED. | ARE EXISTING AND HAVE BEEN | × |
| <u>_</u> | | | | |
| 74 | | | | |
| | | | the Engineer for the Town of | |
| ★ ★ Knightd establis By: Tow | ale, and to the best of my k hed in the Standard Specifi Date: n Engineer | knowledge and belief, ications of the Town of town of the town of town of town of town of the town of | it conforms to the requirements of Knightdale. | REVISIONS |
| These p this pro By: | | | nd serve as construction plans for | |
| | se Administrator | | | |

2263 10/14/24 XXX

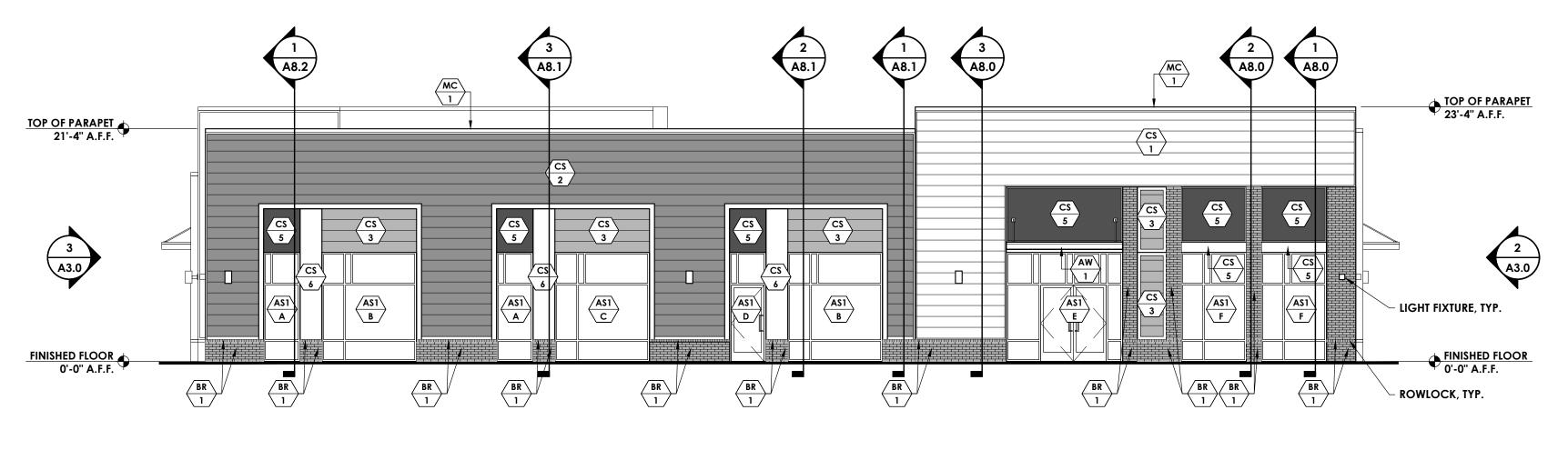
PROJECT: DATE: DRAWN BY: CHECKED BY:

FLOOR PLAN





3 WEST ELEVATION Scale: 1/8" = 1'-0"



4 SOUTH ELEVATION Scale: 1/8" = 1'-0"

 EAST ELEVATION

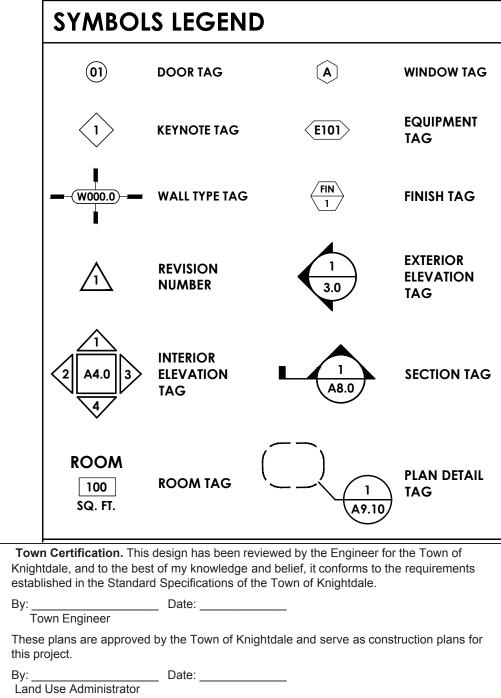
 Scale: 1/8" = 1'-0"

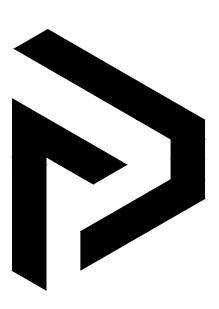
GENERAL NOTES

- DO NOT SCALE ELEVATIONS. REFERENCE PLAN AND WALL SECTIONS FOR MORE INFORMATION.
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- 3 ALL TRIM TO BE PAINTED WHITE (PT-1) UNLESS OTHERWISE NOTED

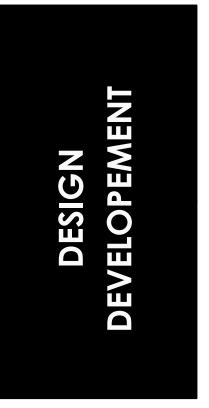
MATERIALS LEGEND

| BR 1 | BRICK - CHARCOAL | |
|---|--|-----|
| BR 2 | BRICK - WHITE | |
| $\left\langle \begin{array}{c} CS \\ 1 \end{array} \right\rangle$ | FIBERCEMENT SIDING - LAP SIDING - WHITE | |
| $\left< \frac{CS}{2} \right>$ | FIBERCEMENT SIDING - LAP SIDING - GRAY | |
| $\left< \frac{CS}{3} \right>$ | FIBERCEMENT SIDING - LAP SIDING - STAINED | |
| | FIBERCEMENT SIDING - SMOOTH PANELING - BROWN | |
| | FIBERCEMENT SIDING - SMOOTH PANELING - CHARCO |)AL |
| | FIBERCEMENT SIDING - SMOOTH PANELING - WHITE | |
| EIFS 1 | EIFS - WHITE | |
| EIFS 2 | EIFS - BROWN | |
| EIFS 3 | EIFS - CHARCOAL | |
| MC 1 | METAL COPING - WHITE | |
| MC 2 | METAL COPING - CHARCOAL | |
| PT 1 | PAINT - SHERWIN-WILLIAMS - SW7006 - EXTRA WHITE | |
| PT 2 | PAINT - SHERWIN-WILLIAMS -SW2806 - ROOKWOOD BROWN | |
| $\left< \frac{\text{PT}}{3} \right>$ | PAINT - SHERWIN-WILLIAMS -SW2800- ROOKWOOD D/ BROWN | 4RK |
| PT 4 | PAINT - SHERWIN-WILLIAMS - SW6341 - RED CENT | |
| PT 5 | PAINT - SHERWIN-WILLIAMS - SW6113 - INTERACTIVE CREAM | |
| AW 1 | AWNING - WHITE | |
| AS - | ALUMINUM STOREFRONT - KAWNEER - WHITE | |
| YMBO | LS LEGEND | |
| 01 | DOOR TAG (A) WINDOW T | AG |
| | KEYNOTE TAG EQUIPMEN | IT |
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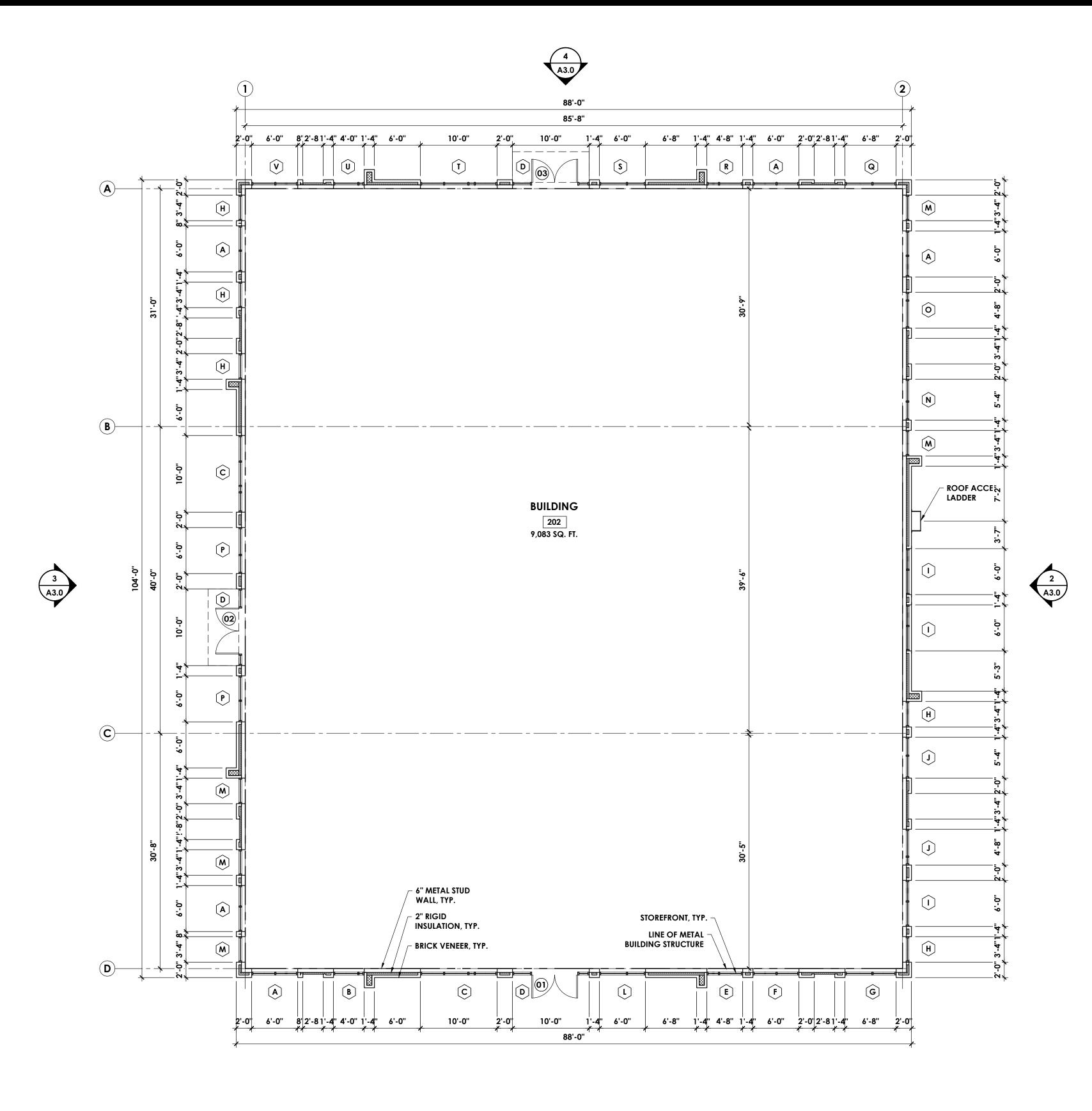
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KNIGHTDALE STATION BUILDING 201 KNIGHTDALE, NC

² NORTH ELEVATION Scale: 1/8" = 1'-0"

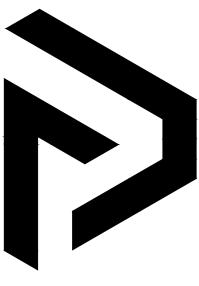
SERS/SHARED/FINLEY DESIGN/PROJECTS/2263 KNIGHTDALE STATION/DRAWINGS/BLDG 202/2263 BLDG 202 - FLOOR PLAN.DWG







| SYMBOL LEGEND WALL TYPE TAG WALL TYPE TAG FIN FINISH TAG EI01 EQUIPMENT TAG A WINDOW TAG 01 DOOR TYPE TAG 1 KEYNOTE TAG 1 KEYNOTE TAG L AB.0 VALL SECTION T AB.0 PLAN DETAIL TAG | ; IAG |
|---|-------------------|
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| Image: The second se | ; IAG |
| A WINDOW TAG (0) DOOR TYPE TAG (1) KEYNOTE TAG (1) KEYNOTE TAG (1) WALL SECTION TO (1) WALL SECTION TO (1) EXTERIOR ELEVA | ; IAG |
| (1) DOOR TYPE TAG 1 KEYNOTE TAG WALL SECTION T A8.0 WALL SECTION T EXTERIOR ELEVA | IAG |
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| 1 WALL SECTION 1 A8.0 EXTERIOR ELEVA A3.0 EXTERIOR ELEVA | |
| A8.0 A8.0 EXTERIOR ELEVA | |
| | TION TAG |
| | |
| A9.10 | G |
| WALL TYPE LEGEND | |
| 6" METAL STUDS @ 16" O.C. W/ R-19 FOBATT INSULATION W/ FIRE BARRIER ABCW01A.F.F., 5/8" GLASS MAT SHEATHING, FLIAPPLIED AIR/WATER BARRIER. SEE EXTERELEVATIONS FOR EXTERIOR FINISHES | OVE 12'-0" UID |
| 6" METAL STUDS @ 16" O.C. W/ 4" CLOS SPRAY FOAM INSULATION W/ FIRE BAR ABOVE 12'-0" A.F.F., 5/8" GLASS MAT SHEATHING, FLUID APPLIED AIR/WATER SEE EXTERIOR ELEVATIONS FOR EXTERIO FINISHES | RIER BARRIER, |
| 8" CMU WALL W/ FLUID APPLIED AIR/W BARRIER. SEE EXTERIOR ELEVATIONS FO EXTERIOR FINISHES | |
| Image: W04 FIRE BARRIER: 2 HOUR RATED WALL. SE ASSEMBLY ON SHEET A0.2 FOR MORE INFORMATION. | E RATED |
| KENNOTES | |
| Image: Constraint of the second state of the second sta | OR QUIRED. |
| PROVIDE FURRED WALL UNDERNEATH EXISTING SI SOFFIT AND ALIGN WITH EXISTING GYP. BD. FACE | |
| PROVIDE ONE LAYER 5/8" GYP. BD. AT ALL EXISTIN PERIMETER WALLS ON EXISTING FRAMING TO STRUE DECK ABOVE. PROVIDE CONT. CAULKING AT TO BOTTOM OF NEW GYP. BD. | UCTURAL |
| 4 EXTERIOR EXIT BALCONIES ARE EXISTING AND HA PREVIOUSLY APPROVED. | VE BEEN |
| | |
| Town Certification. This design has been reviewed by the Engineer for the Towr Knightdale, and to the best of my knowledge and belief, it conforms to the requirer 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 pl this project. By: Date: | ans for |



Finley Design PA 7806 NC HWY 751 Suite 110 Durham, NC 27713 919-493-8200 FINLEYDESIGNARCH.COM



KNIGHTDALE STATION BUILDING 202 KNIGHTDALE, NC

| REVIS | SIONS |
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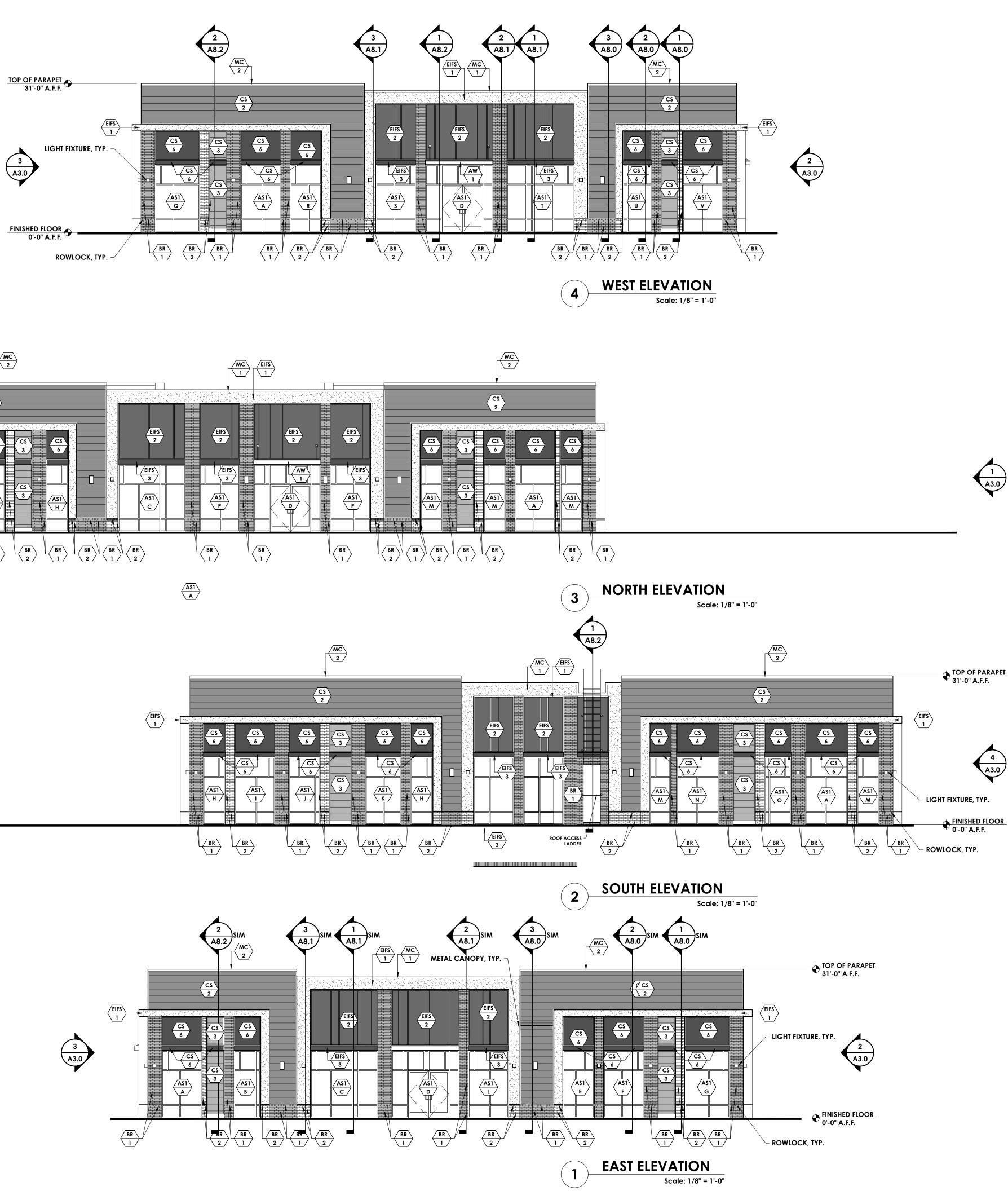
PROJECT: DATE: DRAWN BY: CHECKED BY:

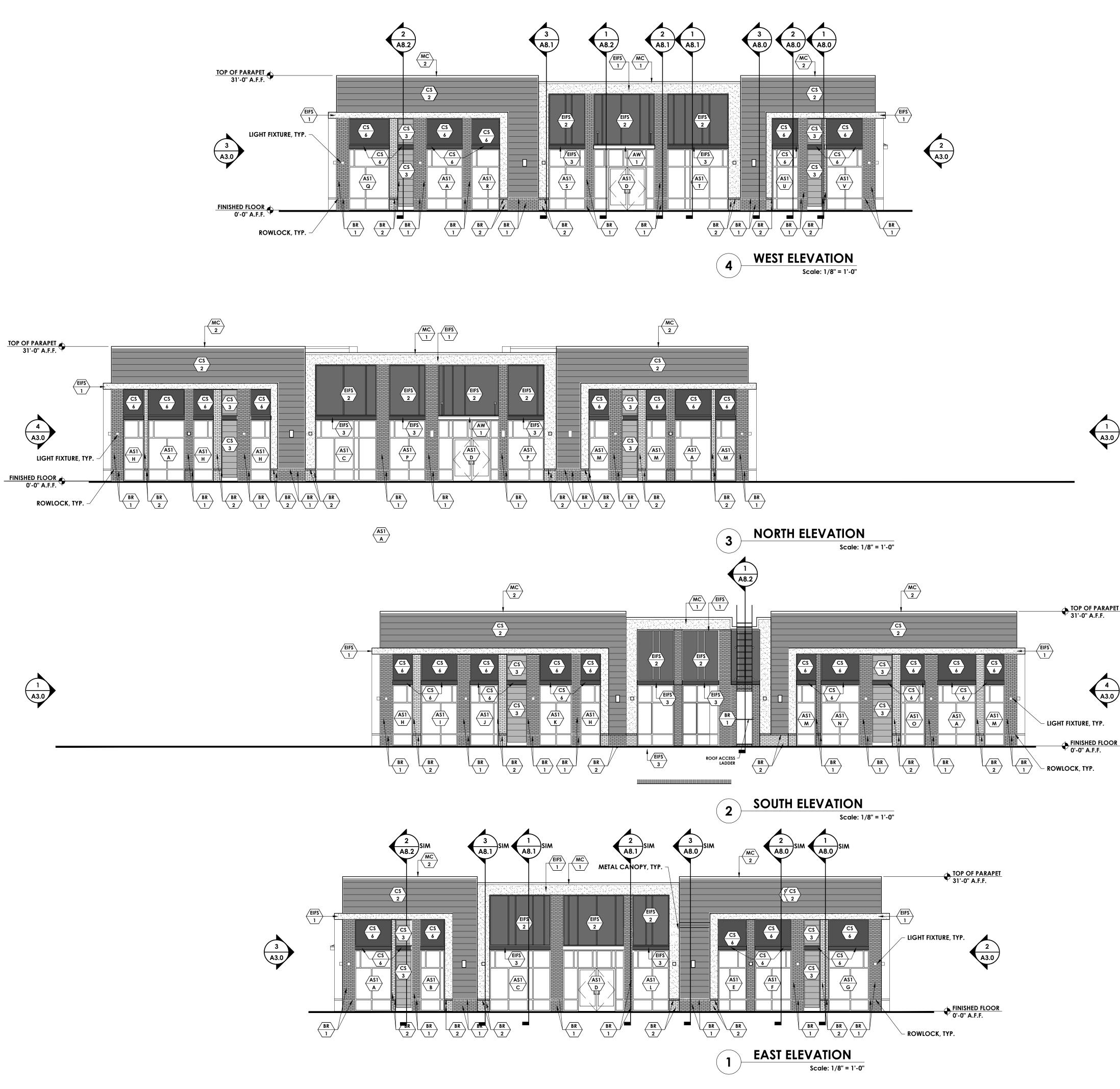
A1.0

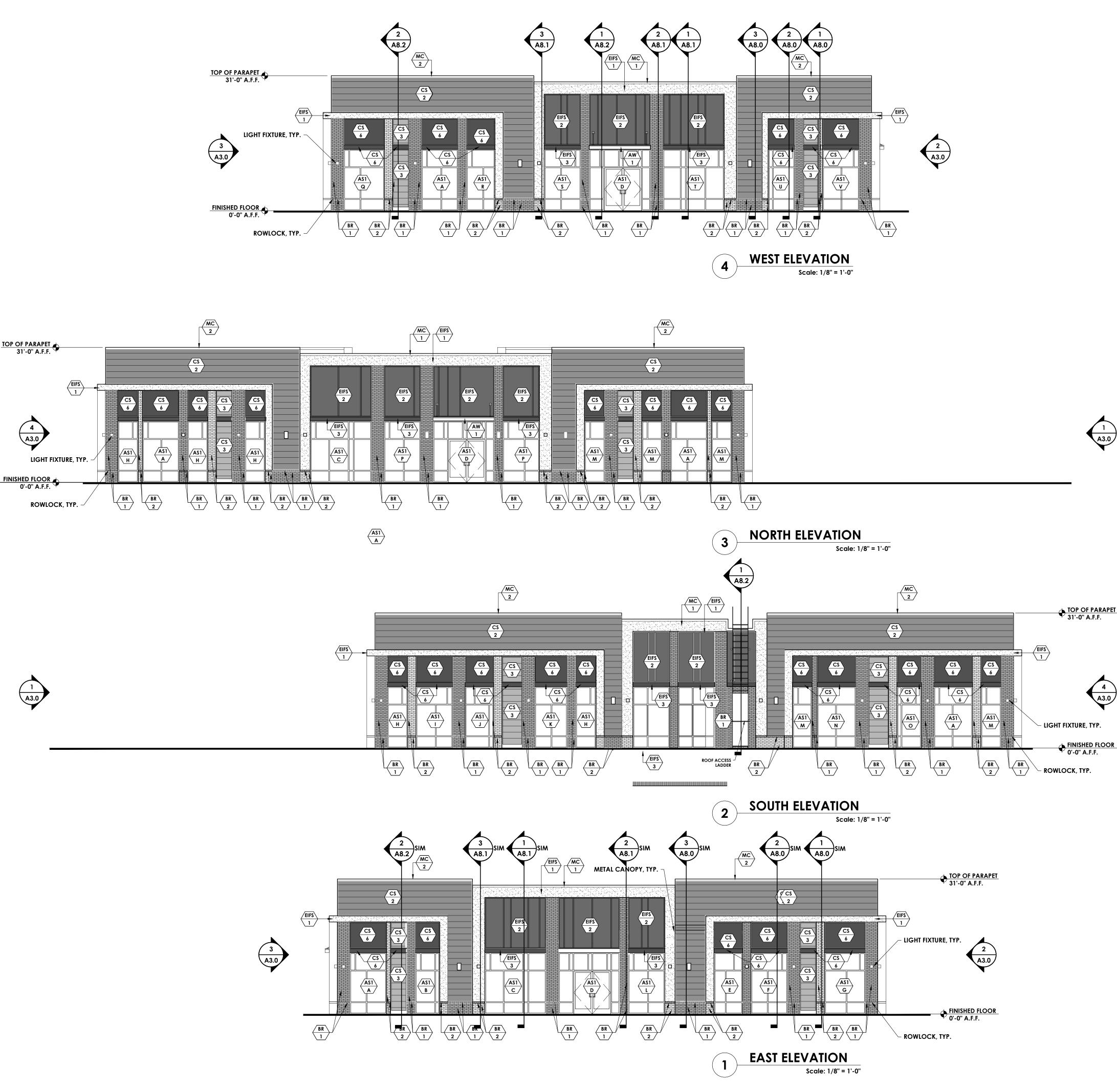
FLOOR PLAN

2263 10/14/24

TWR











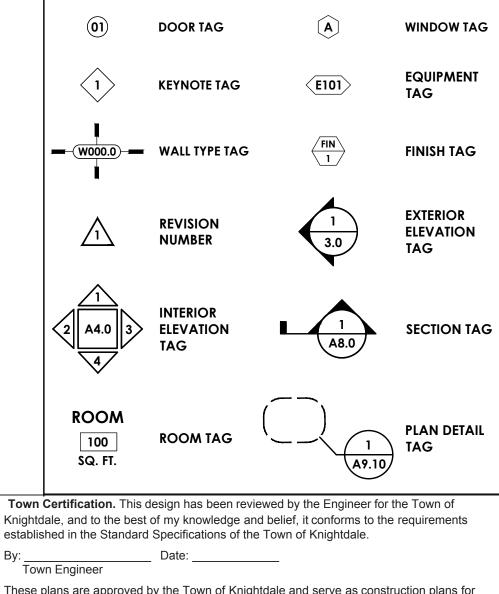
GENERAL NOTES

- DO NOT SCALE ELEVATIONS. REFERENCE PLAN AND WALL SECTIONS FOR MORE INFORMATION. FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE COMMENCEMENT OF WORK.
- 3 ALL TRIM TO BE PAINTED WHITE (PT-1) UNLESS OTHERWISE NOTED

MATERIALS LEGEND

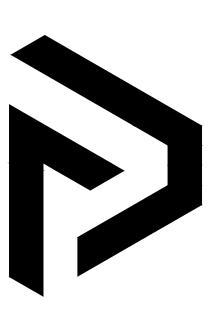
| BR 1 | BRICK - CHARCOAL |
|--|--|
| BR 2 | BRICK - WHITE |
| $\left< \frac{CS}{1} \right>$ | FIBERCEMENT SIDING - LAP SIDING - WHITE |
| | FIBERCEMENT SIDING - LAP SIDING - GRAY |
| $\left< \frac{CS}{3} \right>$ | FIBERCEMENT SIDING - LAP SIDING - STAINED |
| | FIBERCEMENT SIDING - SMOOTH PANELING - BROWN |
| | FIBERCEMENT SIDING - SMOOTH PANELING - CHARCOA |
| CS 6 | FIBERCEMENT SIDING - SMOOTH PANELING - WHITE |
| EIFS 1 | EIFS - WHITE |
| EIFS 2 | EIFS - BROWN |
| EIFS 3 | EIFS - CHARCOAL |
| | METAL COPING - WHITE |
| MC 2 | METAL COPING - CHARCOAL |
| $\left\langle \begin{array}{c} \mathbf{PT} \\ 1 \end{array} \right\rangle$ | PAINT - SHERWIN-WILLIAMS - SW7006 - EXTRA WHITE |
| PT 2 | PAINT - SHERWIN-WILLIAMS -SW2806 - ROOKWOOD BROWN |
| $\left< \frac{\text{PT}}{3} \right>$ | PAINT - SHERWIN-WILLIAMS -SW2800- ROOKWOOD DAR BROWN |
| PT 4 | PAINT - SHERWIN-WILLIAMS - SW6341 - RED CENT |
| PT 5 | PAINT - SHERWIN-WILLIAMS - SW6113 - INTERACTIVE CREAM |
| AW 1 | AWNING - WHITE |
| AS - | ALUMINUM STOREFRONT - KAWNEER - WHITE |
| | |





By: _____ Town Engineer These plans are approved by the Town of Knightdale and serve as construction plans for this project.

By: _____ Date: _____ Land Use Administrator

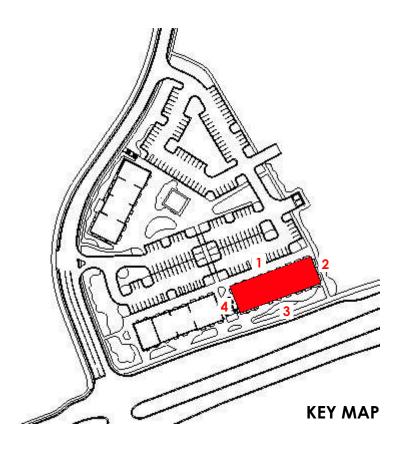


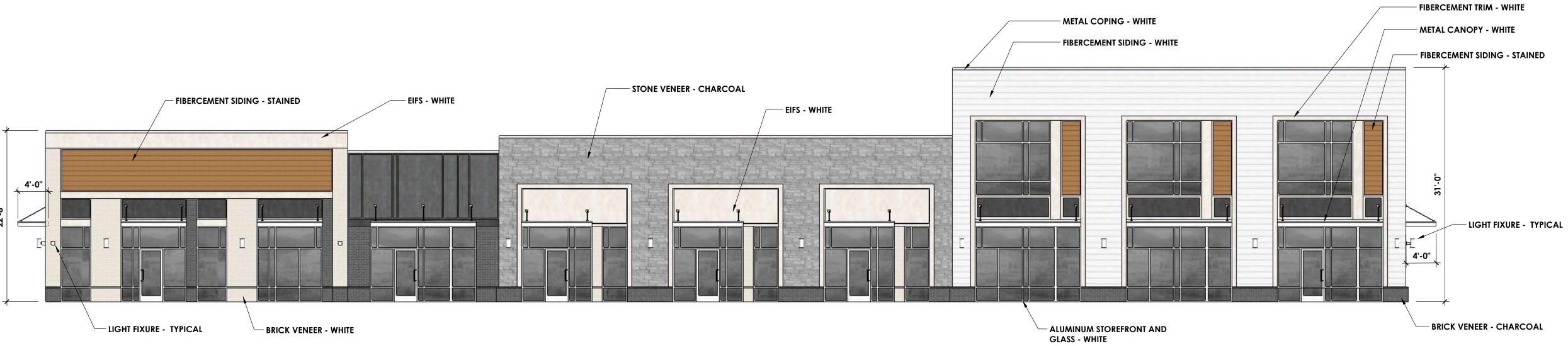
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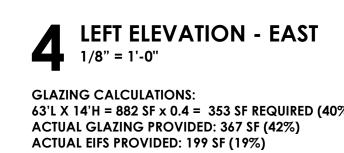
LE, NC **STATION** KNIGHTDALE STAI BUILDING 202 KNIGHTDA

| PROJECT: DATE: DRAWN BY: CHECKED BY: | 2263 9/12/24 TWR |
|---|------------------------|
| EXTERIOR ELEVATIONS | |
| A2 0 | |











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: _____ Town Engineer Date:

These plans are approved by the Town of Knightdale and serve as construction plans for this project.

By: _____ Date: _____ Land Use Administrator

NOTE: ALL ROOFTOP HVAC EQUIPMENT TO BE SCREENED BY BUILDING PARAPETS FOR ALL SIDES OF BUILDING

4'-0" 1

GLAZING CALCULATIONS: 63'L X 14'H = 882 SF x 0.4 = 353 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 367 SF (42%) ACTUAL EIFS PROVIDED: 199 SF (19%)

3 FRONT ELEVATION - NORTH 1/8'' = 1'-0''

GLAZING CALCULATIONS: (180'L X 14'H) = 2,520 SF X 0.4 = 1008 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 1,193 SF (47%) ACTUAL EIFS PROVIDED: 620 SF (14%)





GLAZING CALCULATIONS: 59'L X 14'H = 826 SF x 0.4 = 330 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 367 SF (44%) ACTUAL EIFS PROVIDED: 200 SF (14%)



GLAZING CALCULATIONS: (180'L X 14'H) = 2,520 SF X 0.4 = 1008 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 1,193 SF (47%) ACTUAL EIFS PROVIDED: 700 SF (16%)

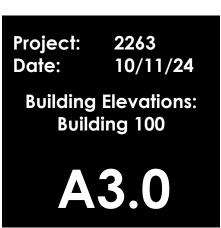


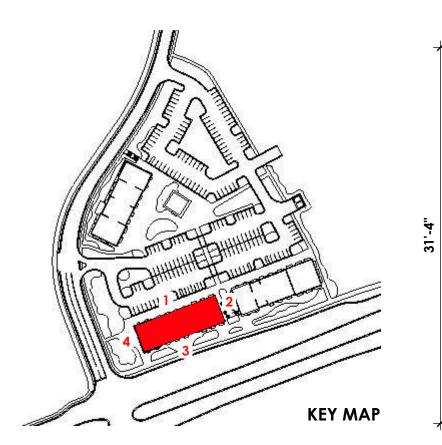
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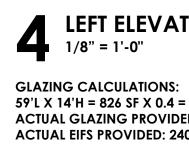
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Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.

By: _____ Town Engineer Date:

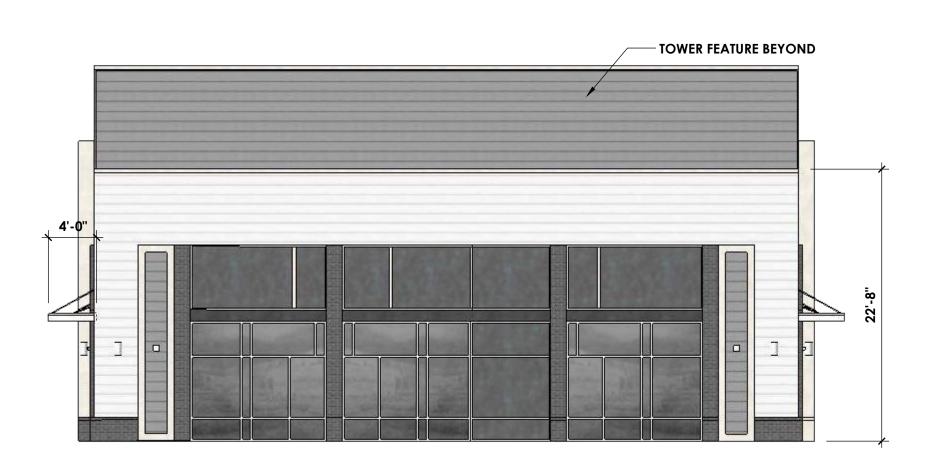
These plans are approved by the Town of Knightdale and serve as construction plans for this project.

By: _____ Date: _____ Land Use Administrator

NOTE: ALL ROOFTOP HVAC EQUIPMENT TO BE SCREENED BY BUILDING PARAPETS FOR ALL SIDES OF BUILDING

LEFT ELEVATION - EAST 1/8" = 1'-0"

59'L X 14'H = 826 SF X 0.4 = 330 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 353 SF (43%) ACTUAL EIFS PROVIDED: 240 SF (13%)

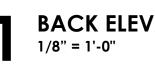


3 FRONT ELEVATION - NORTH 1/8'' = 1'-0''

GLAZING CALCULATIONS: (181'L X 14'H) = 2,534 SF X 0.4 = 1014 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 1,153 SF (46%) ACTUAL EIFS PROVIDED: 595 SF (14%)

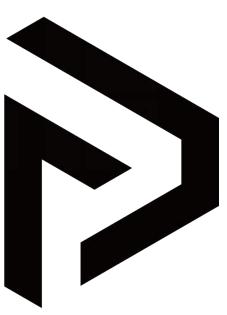


GLAZING CALCULATIONS: 59'L X 14'H = 826 SF X 0.4 = 333 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 213 SF (40%) ACTUAL EIFS PROVIDED: 302 SF (22%)



BACK ELEVATION - SOUTH

GLAZING CALCULATIONS: (181'L X 14'H) = 2,534 SF X 0.4 = 1014 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 1,153 SF (46%) ACTUAL EIFS PROVIDED: 888 SF (21%)

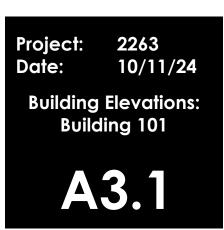


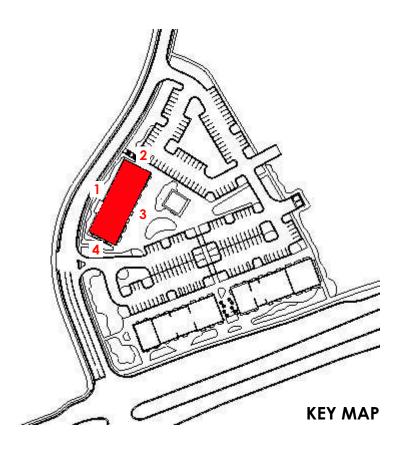
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Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.

By: _____ Town Engineer Date:

These plans are approved by the Town of Knightdale and serve as construction plans for this project.

By: _____ Date: _____ Land Use Administrator

NOTE: ALL ROOFTOP HVAC EQUIPMENT TO BE SCREENED BY BUILDING PARAPETS FOR ALL SIDES OF BUILDING

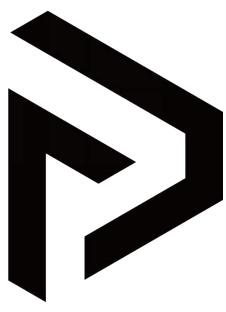


LEFT ELEVATION - EAST **4** 1/8" = 1'-0"

GLAZING CALCULATIONS: 61'L X 14'H = 854 SF X 0.4 = 342 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 341 SF (40%) ACTUAL EIFS PROVIDED: 120 SF (9%)



GLAZING CALCULATIONS: (169'L X 14'H) = 2,366 SF X 0.4 = 946 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 1,150 SF (49%) ACTUAL EIFS PROVIDED: 400 SF (11%)



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RIGHT ELEVATION - WEST 1/8" = 1'-0"

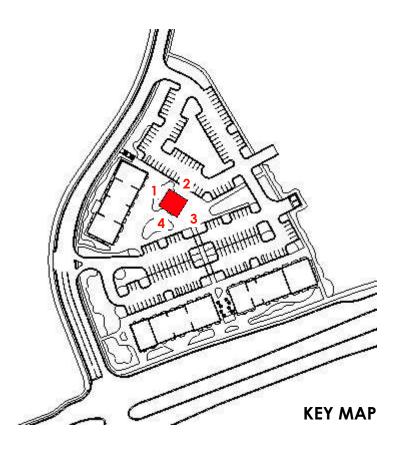
GLAZING CALCULATIONS: 61'L X 14'H = 854 SF X 0.4 = 342 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 353 SF (41%) ACTUAL EIFS PROVIDED: 165 SF (19%)



GLAZING CALCULATIONS: (169'L X 14'H) = 2,366 SF X 0.4 = 946 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 1,150 SF (49%) ACTUAL EIFS PROVIDED: 656 SF (18%)

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LEFT ELEVATION - EAST 1/8" = 1'-0"

GLAZING CALCULATIONS: 41'L X 14'H = 574 SF X 0.4 = 230 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 281 SF (49%) ACTUAL EIFS PROVIDED: 166 SF (20%)

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: _____ Town Engineer Date:

These plans are approved by the Town of Knightdale and serve as construction plans for this project.

By: _____ Date: _____ Land Use Administrator

NOTE: ALL ROOFTOP HVAC EQUIPMENT TO BE SCREENED BY BUILDING PARAPETS FOR ALL SIDES OF BUILDING

BUILDING 103 IS NOT REQUIRED TO MEET THE TRANSPARENCY REQUIREMENTS OUTLINED IN SECTION 6.8 OF THE UNIFIED DEVELOPMENT ORDINANCE PER ORDINANCE #23-10-18-004

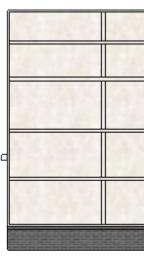
FIBERCEMENT SIDING - STAINED -

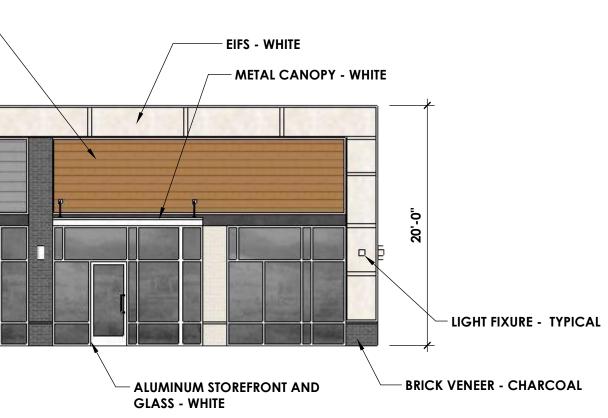
FIBERCEMENT SIDING - GRAY -

EIFS - CHARCOAL -

LIGHT FIXURE - TYPICAL -

STONE VENEER - CHARCOAL



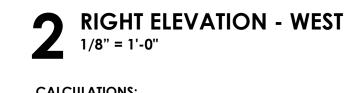




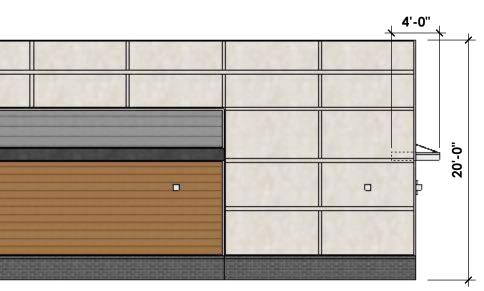
3 FRONT ELEVATION - NORTH 1/8" = 1'-0"

GLAZING CALCULATIONS: 39'L X 14'H = 546 SF X 0.4 = 218 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 280 SF (51%) ACTUAL EIFS PROVIDED: 157 SF (20%)





CALCULATIONS: 44'L X 14'H = 616 SF ACTUAL EIFS PROVIDED: 443 SF (51%)





CALCULATIONS: 41'L X 14'H = 574 SF ACTUAL EIFS PROVIDED: 424 SF (52%)

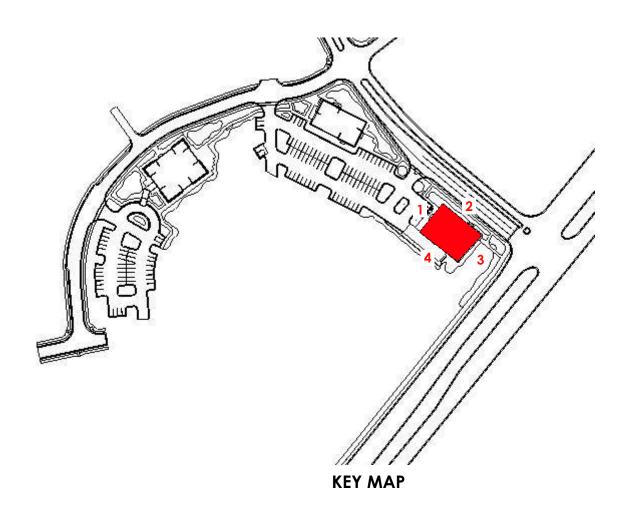


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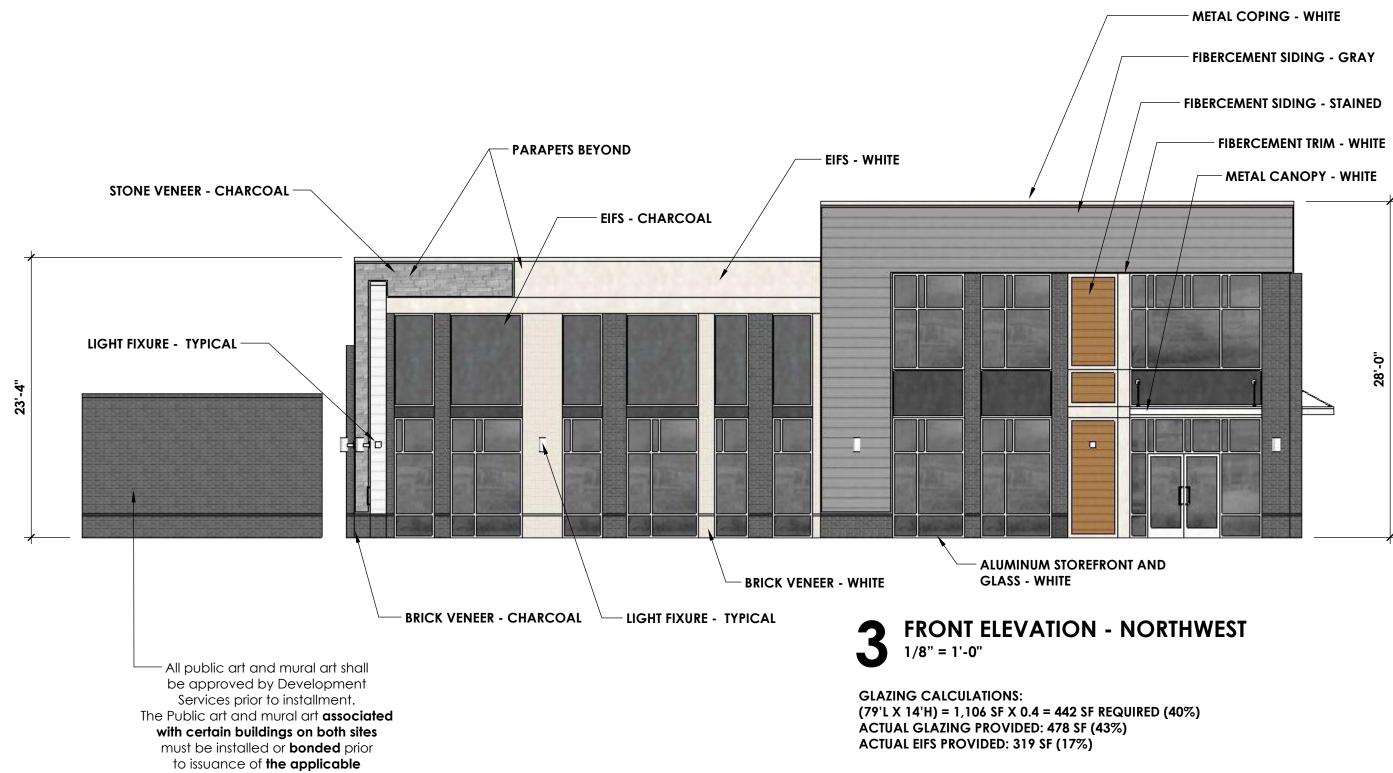


GLAZING CALCULATIONS: (103'L X 14'H) = 1,442 SF X 0.4 = 578 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 599 SF (42%) ACTUAL EIFS PROVIDED: 312 SF (14%)

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.

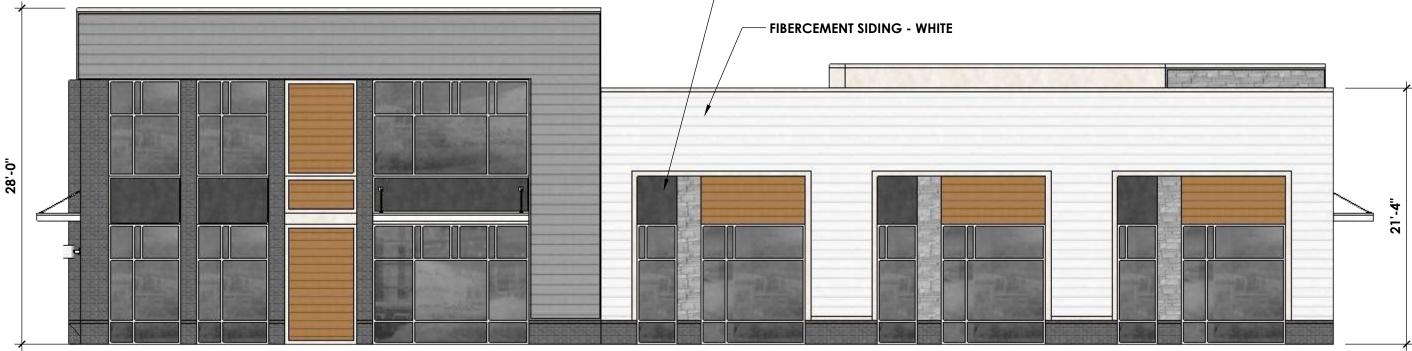
- Date: By: _____ Town Engineer
- These plans are approved by the Town of Knightdale and serve as construction plans for this project.
- By: _____ Date: _____ Land Use Administrator

NOTE: ALL ROOFTOP HVAC EQUIPMENT TO BE SCREENED BY BUILDING PARAPETS FOR ALL SIDES OF BUILDING



building's Certificate of Occupancy.







FIBERCEMENT PANEL - CHARCOAL



 RIGHT ELEVATION - SOUTHWEST 1/8" = 1'-0"

GLAZING CALCULATIONS: (104'L X 14'H) = 1,456 SF X 0.4 = 582 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 610 SF (42%) ACTUAL EIFS PROVIDED: 119 SF (5%)



BACK ELEVATION - SOUTHEAST 1/8" = 1'-0"

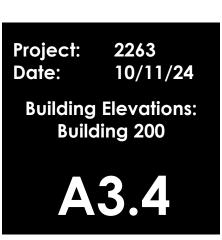
GLAZING CALCULATIONS: (76'L X 14'H) = 1,064 SF X 0.4 = 426 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 577 SF (54%) ACTUAL EIFS PROVIDED: 307 SF (18%)

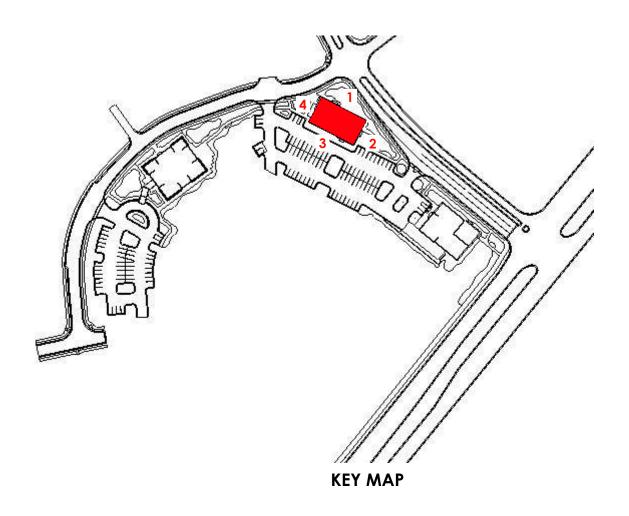
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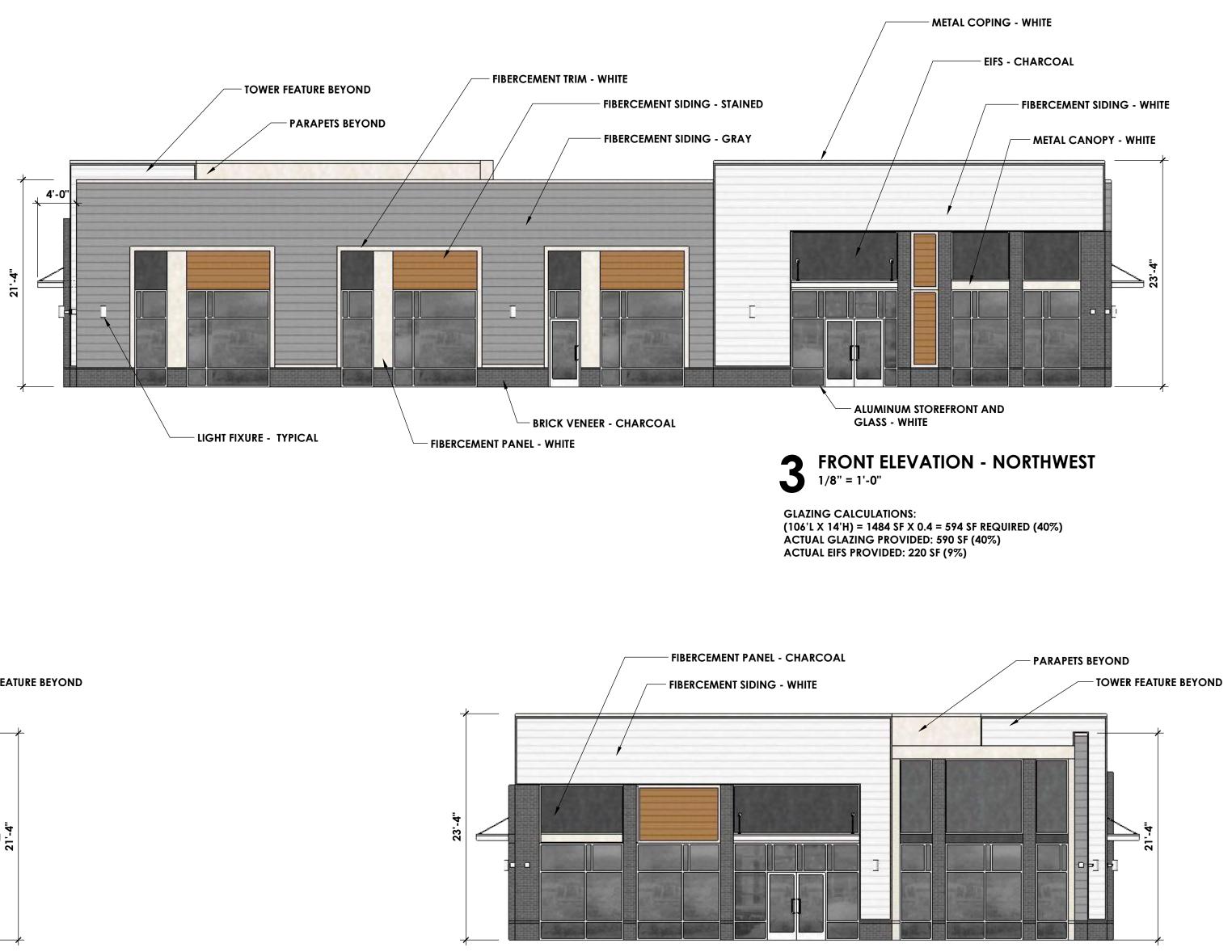


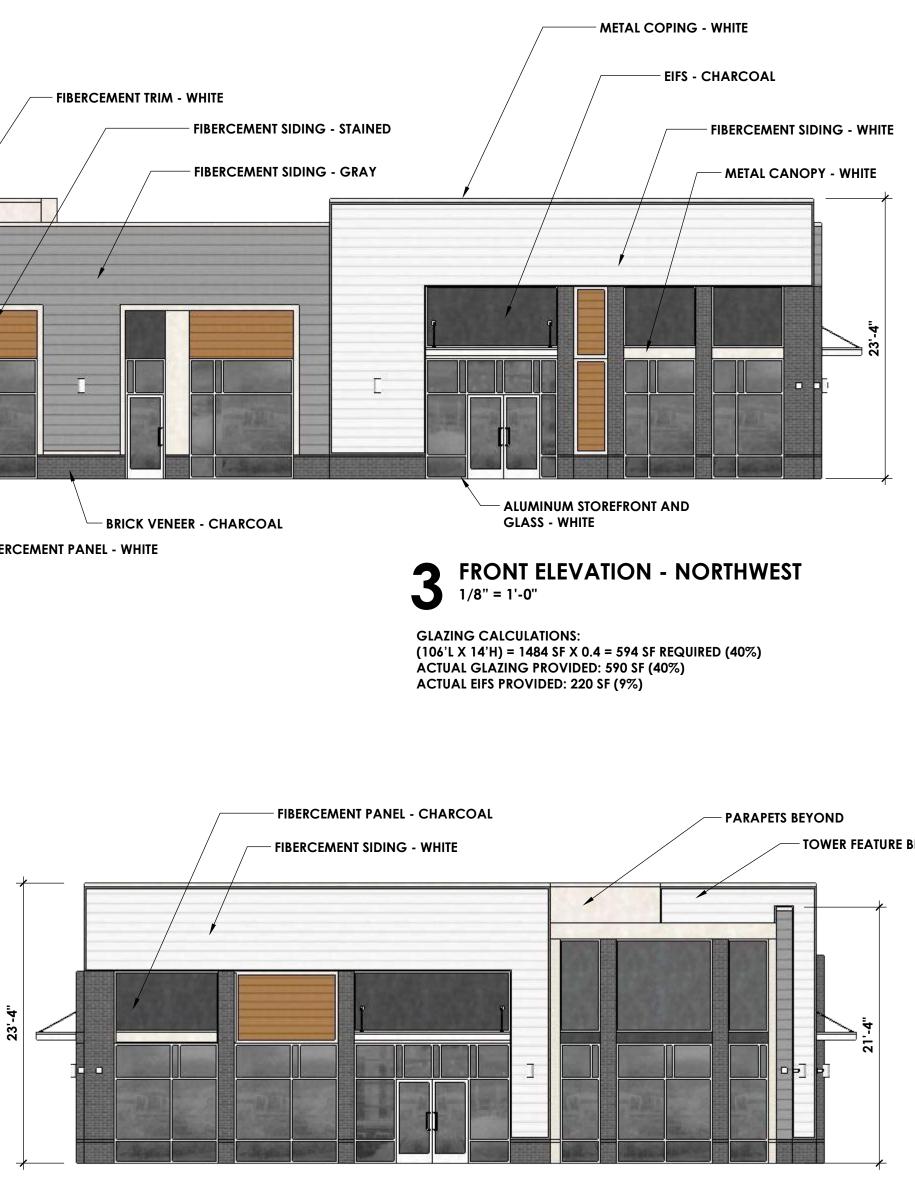
4 LEFT ELEVATION - NORTHEAST **GLAZING CALCULATIONS:**

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: _____ Town Engineer Date:
- These plans are approved by the Town of Knightdale and serve as construction plans for this project.
- By: _____ Date: _____ Land Use Administrator

NOTE: ALL ROOFTOP HVAC EQUIPMENT TO BE SCREENED BY BUILDING PARAPETS FOR ALL SIDES OF BUILDING





(60'L X 14'H) = 840 SF X 0.4 = 336 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 352 SF (42%) ACTUAL EIFS PROVIDED: 250 SF (19%)



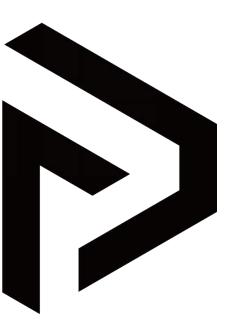


GLAZING CALCULATIONS: (59'L X 14'H) = 826 SF X 0.4 = 330 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 450 SF (54%) ACTUAL EIFS PROVIDED: 227 SF (18%)



BACK ELEVATION - SOUTHEAST 1/8" = 1'-0"

GLAZING CALCULATIONS: (108'L X 14'H) = 1512 SF X 0.4 = 605 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 610 SF (40%) ACTUAL EIFS PROVIDED: 267 SF (11%)



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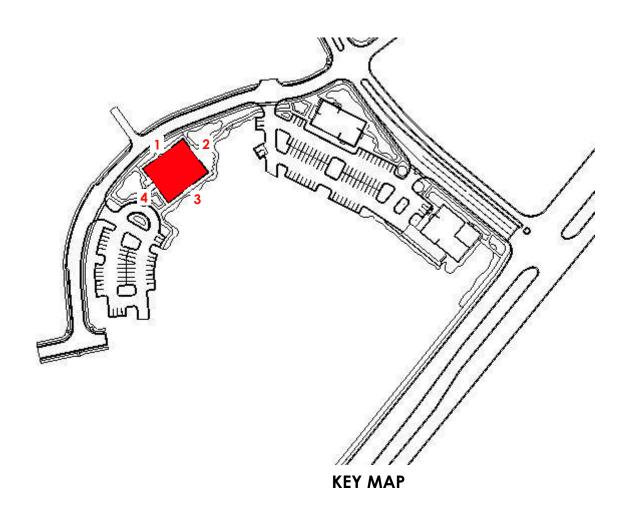
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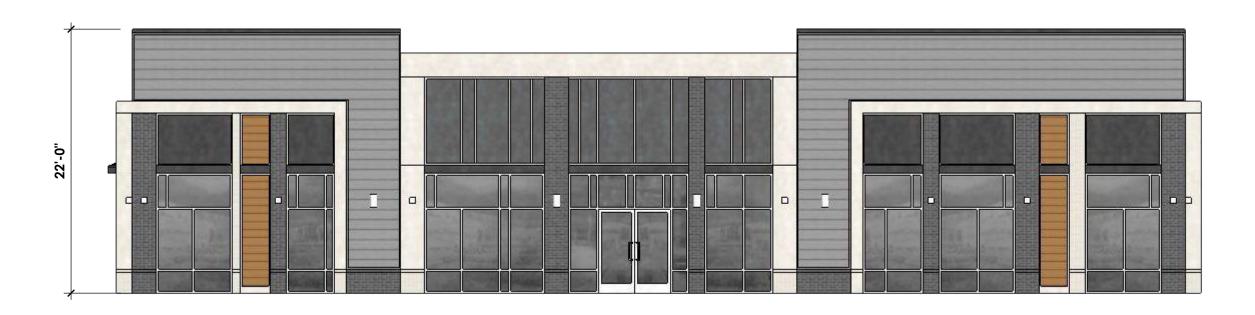




REVISIONS

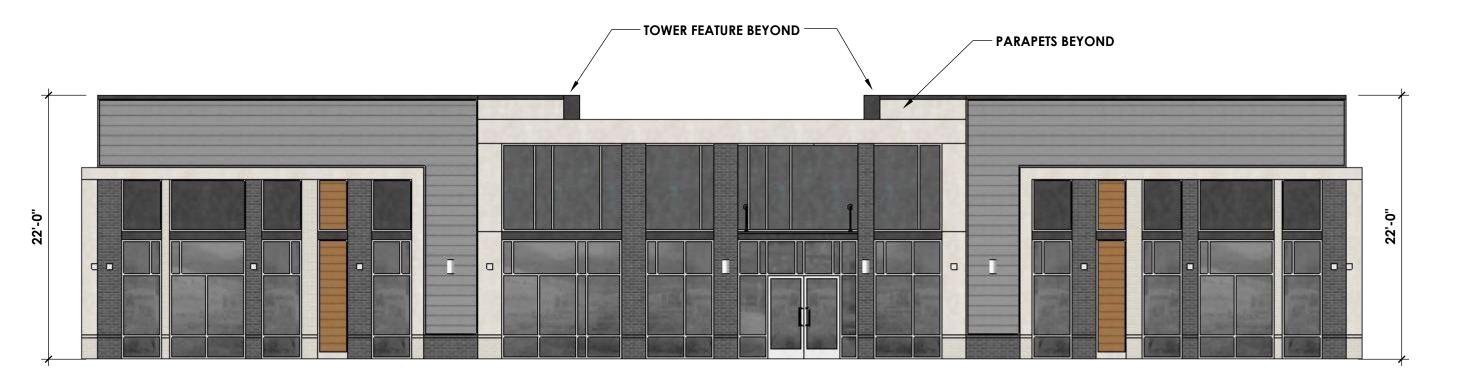








GLAZING CALCULATIONS: (88'L X 14'H) = 1,232 SF X 0.4 = 493 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 537 SF (44%) ACTUAL EIFS PROVIDED: 511 SF (27%)



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.

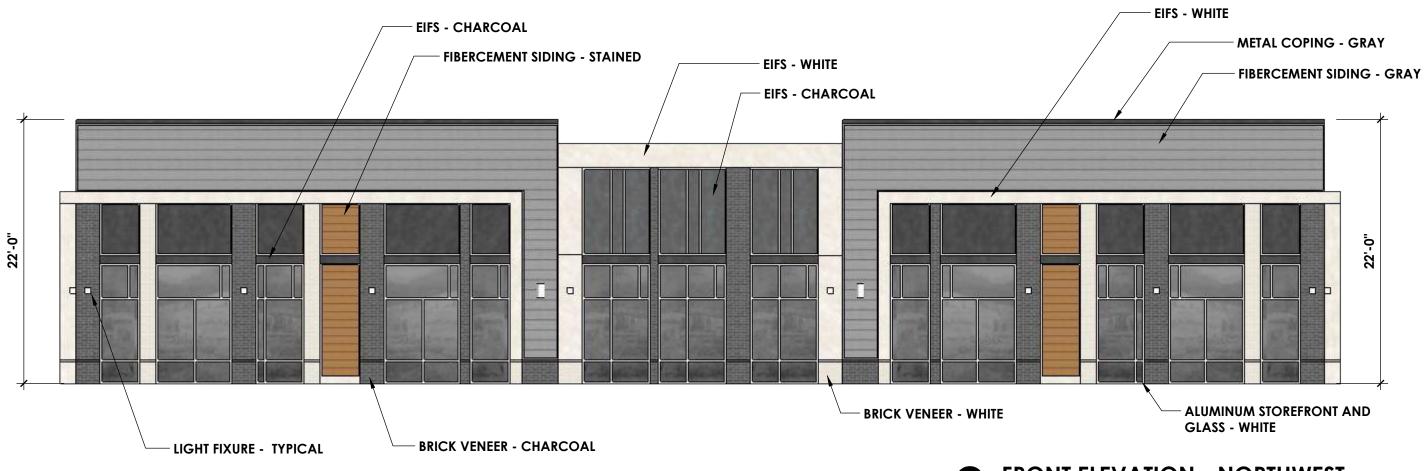
By: _____ Town Engineer Date:

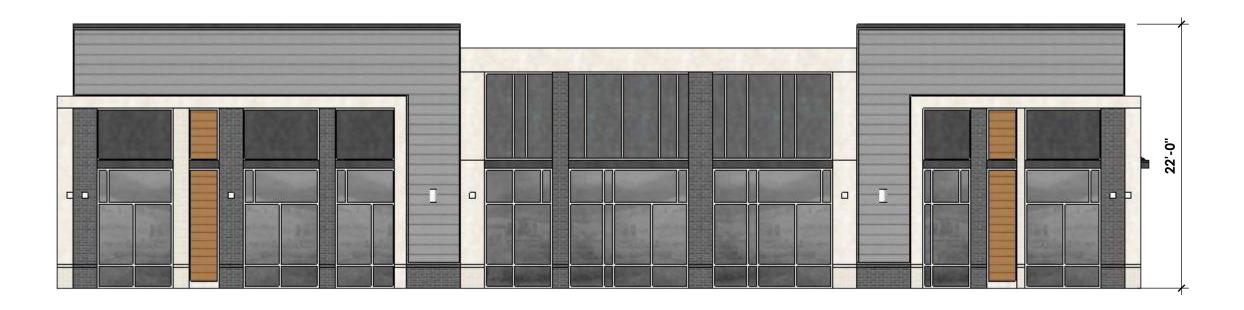
These plans are approved by the Town of Knightdale and serve as construction plans for this project.

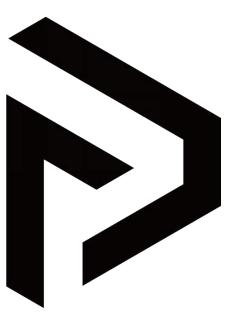
By: _____ Date: _____ Land Use Administrator

NOTE: ALL ROOFTOP HVAC EQUIPMENT TO BE SCREENED BY BUILDING PARAPETS FOR ALL SIDES OF BUILDING

FINAL BUILDING CANOPIES TO BE REVIEWED AND APPROVED DURING THE BUILDING PERMIT PROCESS TO CONFIRM COMPLIANCE WITH THE APPROVED MASTER PLAN (CASE ZMA-2-23), APPROVED BY TOWN COUNCIL







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3 FRONT ELEVATION - NORTHWEST 1/8" = 1'-0"

GLAZING CALCULATIONS: (104'L X 14'H) = 1,456 SF X 0.4 = 582 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 637 SF (44%) ACTUAL EIFS PROVIDED: 547 SF (24%)



RIGHT ELEVATION - SOUTHWEST 1/8" = 1'-0"

GLAZING CALCULATIONS: (88'L X 14'H) = 1,232 SF X 0.4 = 493 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 537 SF (44%) ACTUAL EIFS PROVIDED: 511 SF (27%)

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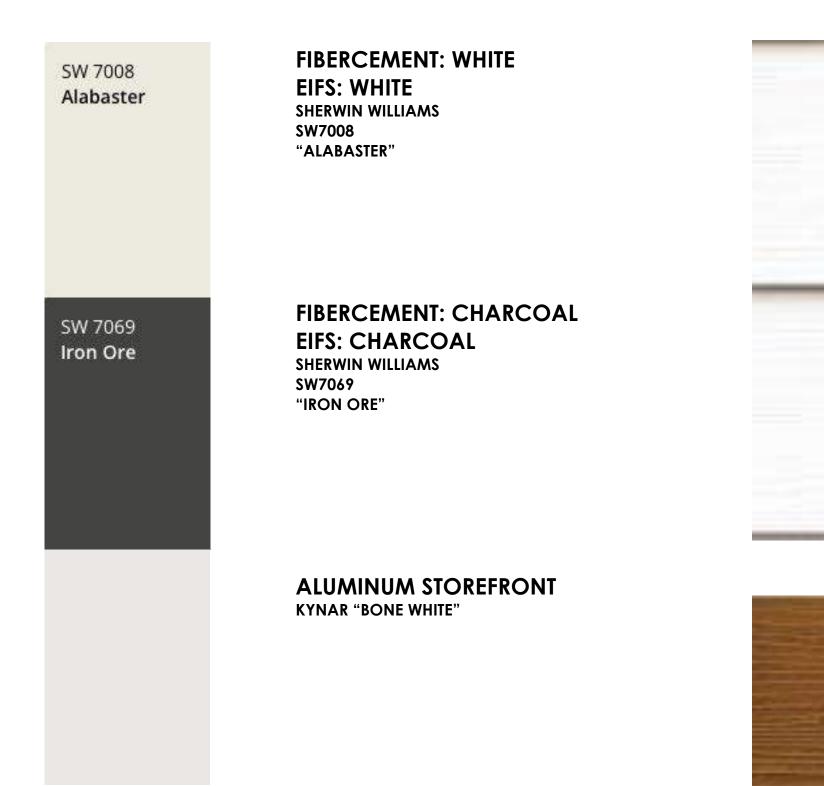
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REVISIONS

BACK ELEVATION - SOUTHEAST 1/8" = 1'-0"

GLAZING CALCULATIONS: (104'L X 14'H) = 1,456 SF X 0.4 = 582 SF REQUIRED (40%) ACTUAL GLAZING PROVIDED: 640 SF (44%) ACTUAL EIFS PROVIDED: 600 SF (27%)







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: _____ Town Engineer

These plans are approved by the Town of Knightdale and serve as construction plans for this project.

By: _____ Date: _____ Land Use Administrator



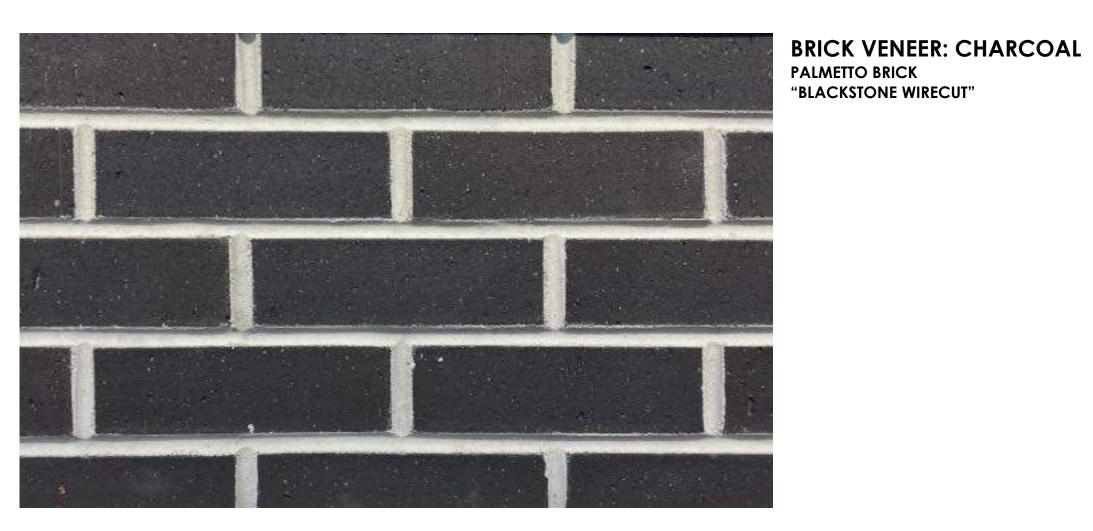
FIBERCEMENT SIDING: STAINED CAROLINA COLORTONES "WHITE"



FIBERCEMENT SIDING: STAINED CAROLINA COLORTONES "CHESTNUT"

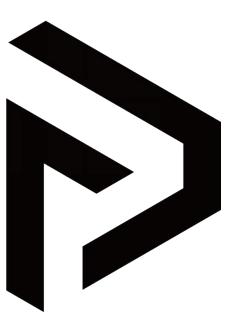
FIBERCEMENT SIDING: STAINED CAROLINA COLORTONES "LIGHT GRAY"







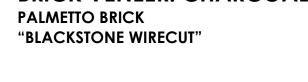
BRICK VENEER: WHITE PALMETTO BRICK "WHITESTONE WIRECUT"



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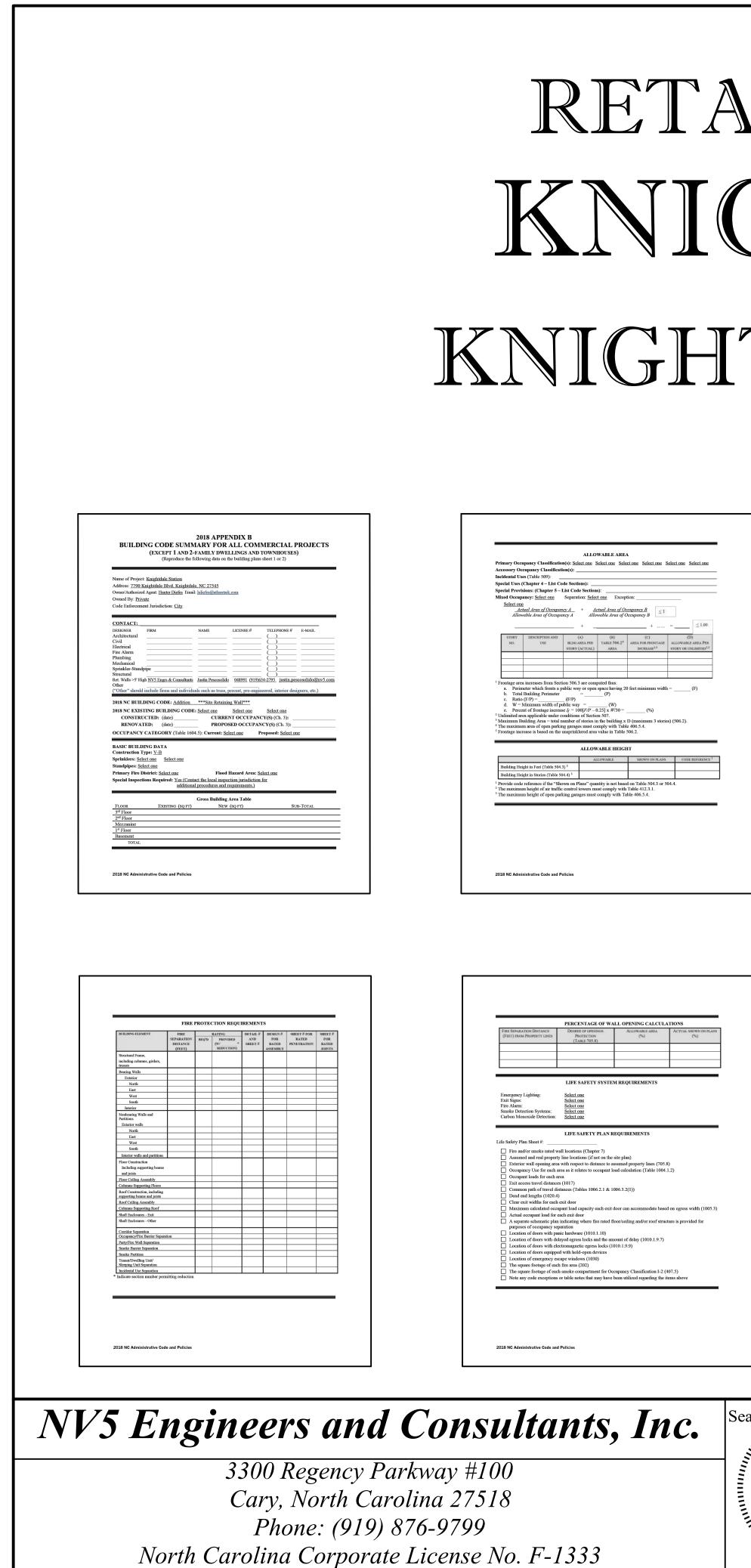
STONE VENEER: CHARCOAL RIDGE OLD WORLD STONE VENNER **"CHARCOAL RIDGE LEDGESTONE**

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REVISIONS



MATERIAL SELECTIONS NOT TO SCALE



RETAINING WALL DESIGN FOR KNIGHTDALE STATION KNIGHTDALE, NORTH CAROLINA

| | | P1 |
|---|---|-----------------|
| Statement of Special Inspections Project: Knightdale Station | | |
| Location: Knightdale, NC Owner's Representative: Mr. Hunter Diefes Owner's Address: Atlas Stark Holdings, LLC Architect of Record: | | |
| Structural Engineer of Record: Justin R. Pescosolido, P.E. – This Statement of Special Inspections is submitted as a conditi with the Special Inspection requirements (Chapter 17) of the N Statement includes a Schedule of Special Inspections applicabl qualifications for the Special Inspector and Agents of the Speci | tion for permit issuance in accordance North Carolina State Building Code. The Je to this project as well as the required | <i>RW-1</i> |
| The Special Inspector shall keep records of all inspections, furn discrepancies as detailed by project specifications Section $\# - 1$ | nish inspection reports, and identify "Special Inspections". | |
| A Final Report of Special Inspections, documenting the complet and confirming the correction of any discrepancies, will be sub- of Use and Occupancy. | tion of all required Special Inspections mitted prior to issuance of a Certificate | |
| The Special Inspections program does not relieve the Contract safety and means and methods of construction are solely the m | or of his or her responsibilities. Job Site | <i>RW-2</i> |
| Schedule of Special Inspection | , | K // - 2 |
| The following sheets comprise the required schedule of special construction divisions which require special inspections for this | i inspections for this project. The s project are as follows. | |
| Special Foundations Cold-Formation | rmed Steel Framed "X" Bracing / Seismic | |
| Cast-in-Place Concrete Resisting | ng Systems nels and Veneers | |
| Structural Masonry – Level 1 Structural Masonry – Level 1 Wood Shear Walls Smoke C | | <i>RW-3</i> |
| Structural Steel Quality A Quality A Quality A | Assurance for Seismic Resistance Assurance for Wind Requirements | |
| Seismic Design Category: Basic Wind Speed: | | |
| Wind Exposure Category: Statement of Special Inspections Prepared by (Structural Engir | ineer of Record): | |
| CP | | <i>RW-4</i> |
| 7/12/24 Signature Date | | K // -4 |
| Owner's Authorization | Accepted for the Building Official by: | |
| Signature Date | Signature Date | |
| | | |
| | | <i>RW-5</i> |
| | | |
| | | |
| |] | |
| | | |
| | | <i>RW-6</i> |
| | | |
| | | |
| | | |
| | | <i>RW-7</i> |
| | | |
| | | |
| | | |
| Special Inspection and M | laterial Testing Items | |
| DDULAR RETAINING WALLS (NCSBC SECTION | | <i>RW-8</i> |
| | tailed Instructions and Frequencies | |
| e properties of the in-place | terials shall meet the assumed design values in the "Back Fill | |
| sed soil materials | terials" and "Soil Properties" sections of the Specifications | |
| ie suitability of in-place and Continuous Q Periodic "Un | terials shall meet the requirements of the "Soil Properties", nsuitable Material", Foundation Requirements", and "Structural | <i>RW-9</i> |
| soil materials | Placement" sections of the Specifications aring capacity of foundation and reinforced zone shall be in | <i>KW-9</i> |
| esion bearing capacity Continuous Periodic acco | ordance with the "Foundation Load" and "Foundation | |
| usling and material and | uirements" sections of the Specifications terials shall meet requirements of the "Leveling Pad" section of | |
| oth Continuous Periodic Indu | Specifications | |
| acement, setback, and | aining Wall Plans Detail and "Wall Batter", "Retaining Wall ear Connections", "First Block Course" and "Retaining Wall Cap | <i>RW-10</i> |
| Unit | its" sections of the Specifications | |
| | aining Wall Plans Detail and "Unit Fill" and "Hydrostatic ssure Potential" sections of the Specifications | |
| Mat | - | |
| | terials shall be as indicated on the RW Profile and meet the | |
| | terials shall be as indicated on the RW Profile and meet the uirements of the "Geogrid Reinforcement", "Geogrid tallation", & "Acceptable Geogrid" sections of the Specifications | <i>RW-1</i> |

| SEAL 048991 Charles Station SEAL 048991 Charles Station SEAL 048991 Charles Station Cour Project Number 121-24-106145 | REV 1 | DATE 8/14/24 | | |
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ontinuous Periodic Placement of fill shall meet requirements of the "Structural in Placement" and "Soil Testing" sections of the Specifications

ÇR.

Registered Design Profession Justin R. Pescosolido, P.E.

erify density, moisture content

A summary of testing services, signed and sealed by a registered pr Design Professional prior to issuance of the final inspection report.

and lift thickness for wall fill

4905 Professional Court Raleigh, North Carolina 27609 Phone (919) 876-9799 Fax (919) 876-829

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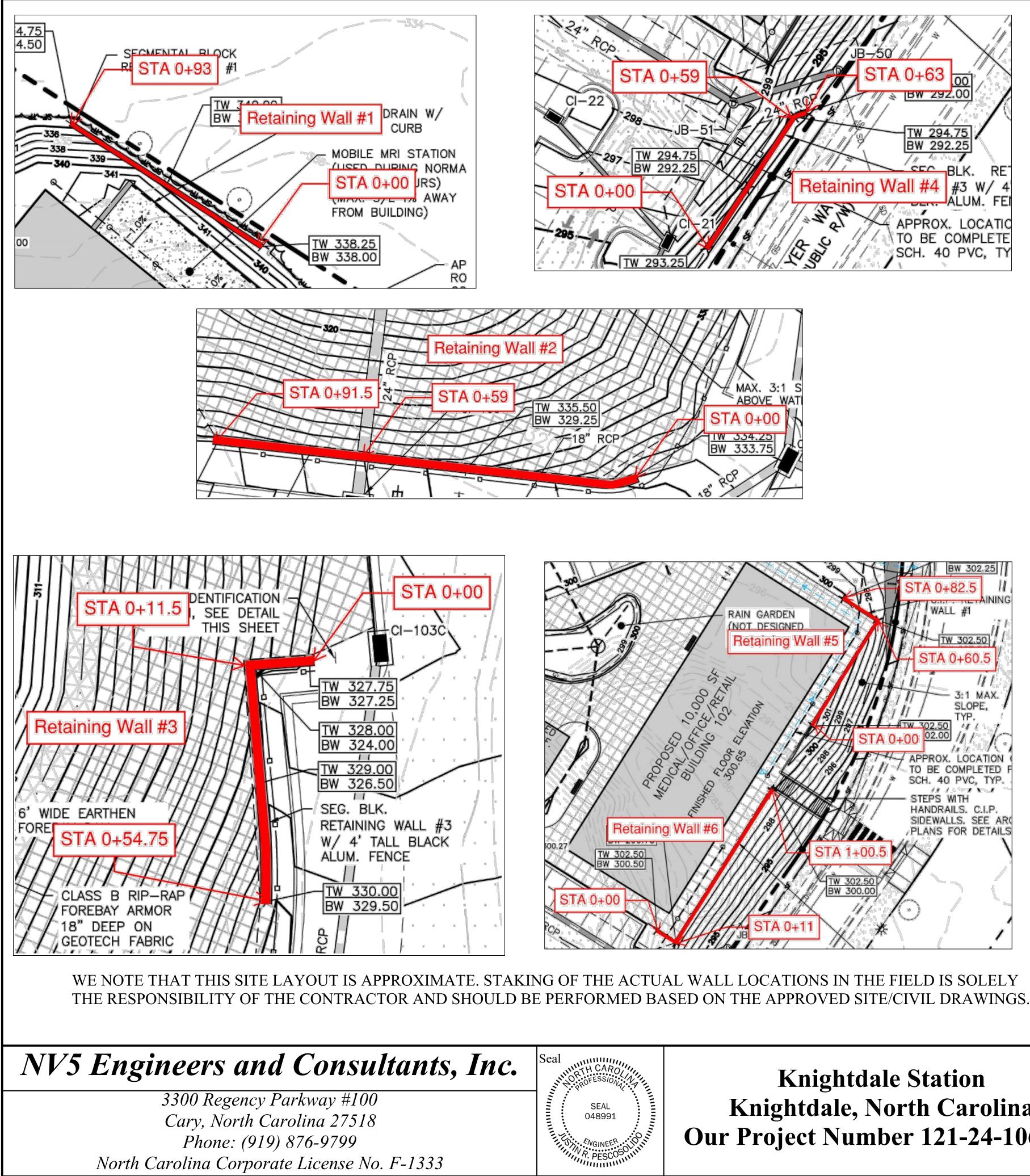
lan Sheet Index:

Title Sheet

- 2 Retaining Wall Layout
- 3 Retaining Wall 1 Profile
- 4 Retaining Wall 2 Profile
- 5 Retaining Wall 3 Profile
- 6 Retaining Wall 4 Profile
- 7 Retaining Wall 5 Profile
- 8 Retaining Wall 6 Profile
- 9 Anchor Diamond Pro PS Unit Details
- 10 Additional Details
- **RW-11** Specifications

| | | a. 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 Knig project. | htdale and serve as constru | action plans for this | | |
| | | By: Date: Land Use Administrator | | | | |
| DESCRIPTION Wall 5 and 6 Addition | BY JGD | Title Sh | leet | | | |
| | | Designed by: Justin R. Pescosolido, P.E. | Date: 7/12/24 | SHEET | | |
| | | Drawn By: Jalen G. Deatherage | Date: 7/12/24 | RW-1 | | |
| | | Reviewed By: Justin R. Pescosolido, P.E. | Date: 7/12/24 | | | |

Retaining Wall Design



General Notes

The retaining wall(s) contained herein have been designed using active earth pressure theory. Therefore, outward movement at the top of the wall(s) should be expected. Outward movement of the retaining wall(s) may be limited by using high quality fill soils with a low fines content within the reinforced zone of the wall(s). Some cracks could develop at the ground surface due to lateral movement of the wall(s). These cracks should be filled in as soon as they are observed to help protect the soils below the ground surface from softening related to water infiltration that could affect the support characteristics for adjacent construction.

Preliminary analyses for global stability and total and differential settlement were performed as part of the design services for the segmental retaining wall(s). Our analyses were based, in part, on assumed in-situ soil properties derived from our previous experience with similar conditions in close geographic proximity to this site. If soil conditions encountered during construction are significantly different than those assumed herein, NV5 Engineers and Consultants, Inc. shall be contacted immediately for review of and possible alterations to this design.

The Engineer requests that representatives of the owner and/or general contractor arrange a pre-construction meeting with all pertinent parties involved for the construction of the retaining wall(s) shown on these plans. The Engineer's responsibility is limited to providing only the design services of the project's retaining wall(s) contained herein. Retaining wall construction monitoring and retaining wall certifying are beyond the scope of these design services. The Engineer shall not be required to sign any document, no matter by whom requested, in which the Engineer is required to certify, guarantee, or warrant conditions of which the Engineer has not or cannot ascertain.

The retaining wall(s) shown herein were designed considering an additional 250 pounds per square foot (psf) live load surcharge to account for vehicle traffic in the planned parking lot and drive aisles (where applicable). A 1,500 psf dead load surcharge was considered in order to model the planned structure loading behind Retaining Wall #5 and #6. Structures such as light poles, handrail, guardrail, or drainage structures to be installed in the vicinity of the retaining wall(s) shall be designed and constructed to resist imposing additional lateral loads on the retaining wall(s). If future construction alters the assumed loading conditions of the retaining wall(s), NV5 Engineers and Consultants, Inc. shall be notified to review the design criteria for the imposed loads.

respective pond.

Construction Notes

- of the proposed wall(s) shall be performed.
- future utility lines shall be performed.

- measures that will ensure proper operation of the retaining wall(s).
- structural integrity of the retaining wall(s).
- be directed away from the wall(s) and slope(s) above the wall(s).

Knightdale, North Carolina Our Project Number 121-24-106145

| | | | | a. 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: Land Use Administrator |
|-----|-----------------|--------------------------------------|-----|---|
| REV | DATE 8/14/24 | DESCRIPTION Wall 5 and 6 Addition | BY | |
| 1 | 0/14/24 | wan 5 and 0 Addition | JGD | Retaining Wall Layout |
| | | | | Designed by: Justin R. Pescosolido, P.E. Date: 7/12/24 SHEET |
| | | | | Drawn By: Jalen G. Deatherage Date: 7/12/24 RW-2 |
| | | | | Reviewed By: Justin R. Pescosolido, P.E. Date: 7/12/24 |
| | | | | Retaining Wall Design |

As a apart of this retaining wall design we have assumed pond pond elevation will not exceed emergency spillway elevations of each

1. Prior to construction, confirmation of the distances to property lines, Tree Buffers, roadways, sidewalks, and/or curb and gutter to the face(s)

2. Prior to construction, confirmation of existing utility line locations (Stormwater, Sewer, Water, Electrical, and Gas) and the locations of

3. Prior to construction, confirmation of the in-situ and proposed grades shall be performed by a qualified surveyor. NV5 Engineers and Consultants, Inc. shall be notified if the site grades are different than those shown on these drawings.

4. During construction, care must be exercised to prevent the undermining of any existing structures.

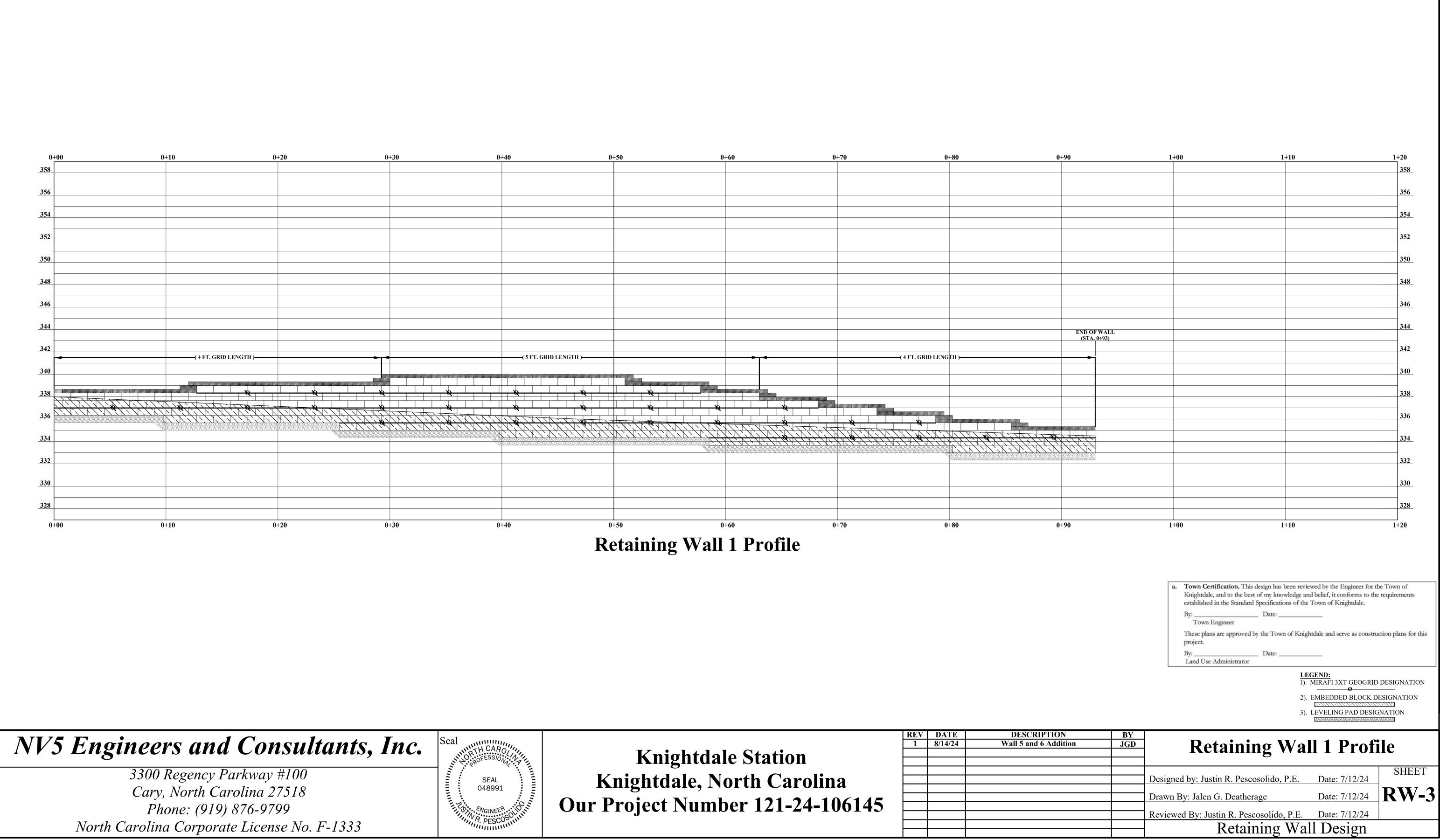
5. Utility structures and underground lines located within the reinforced zone of the retaining wall(s) shall be installed prior to or during construction of the retaining wall(s) to prevent damage to the reinforcement layers. If the presence of utility structures interferes with the integrity of the reinforcement, NV5 Engineers and Consultants, Inc. shall be notified during construction to recommend suitable remedial

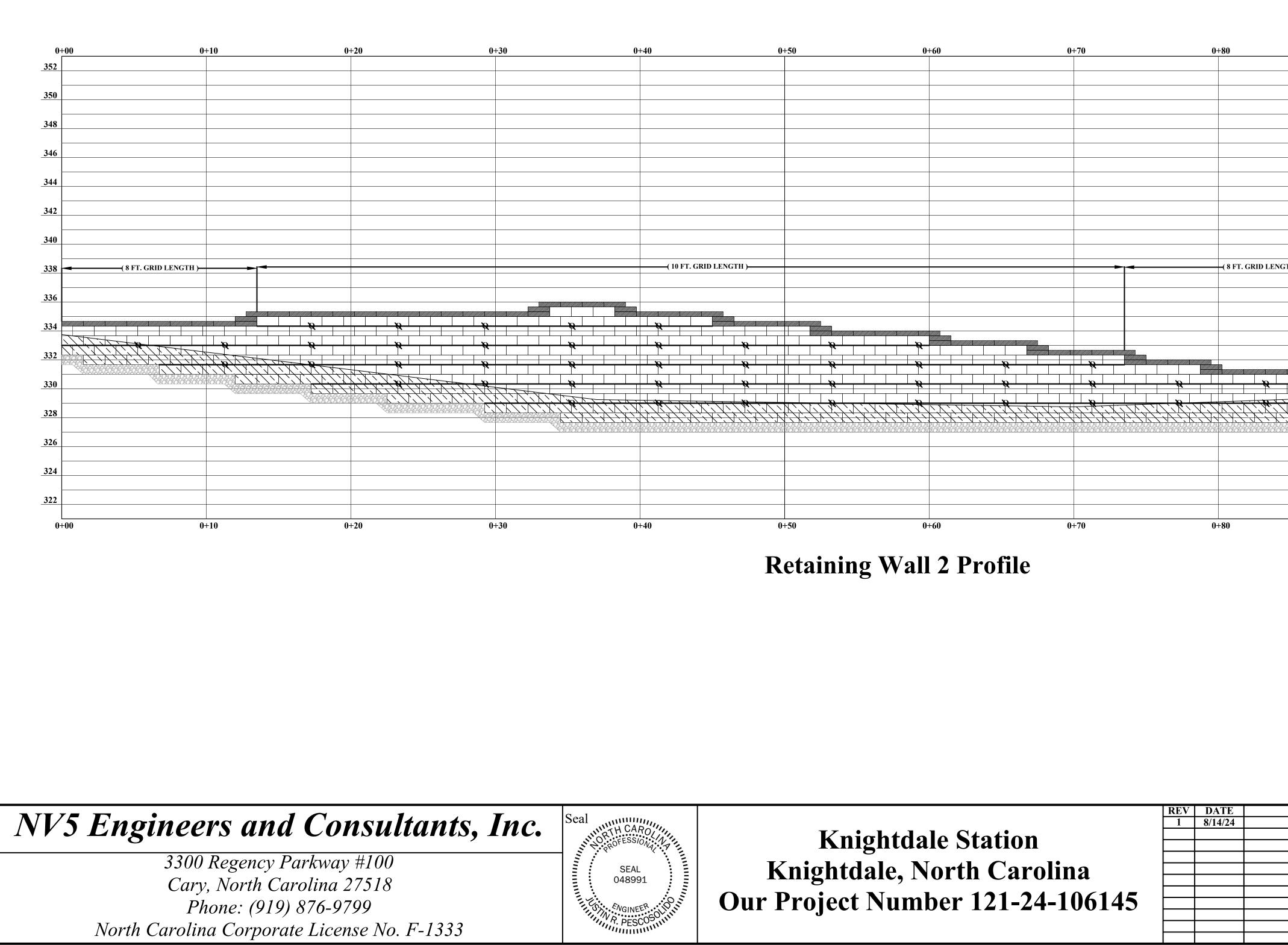
6. After construction, heavy equipment should not operate within 3 feet of the top portion of the wall(s) to prevent adverse impacts to the

After construction, care must be exercised to prevent damage to the upper layers of reinforcement and degrading of the retained soils of the retaining wall(s). Installation of light poles, signs, handrails, guardrails, shrubs, or trees (etc.) in the reinforced zone of this retaining wall(s) shall not damage the upper layers of reinforcement. Any damaged reinforcement shall be repaired.

8. Surface water drainage shall be designed by others to discharge surface water away from the wall face(s) and away from the foundations of adjacent construction at all times during and after construction of the retaining wall(s). All downspouts from the nearby structures should

Regular inspection and maintenance of the planned stormwater pond(s) is critical to long term performance of the retaining wall(s). Improper or irregular stormwater pond maintenance could negatively impact wall stability.

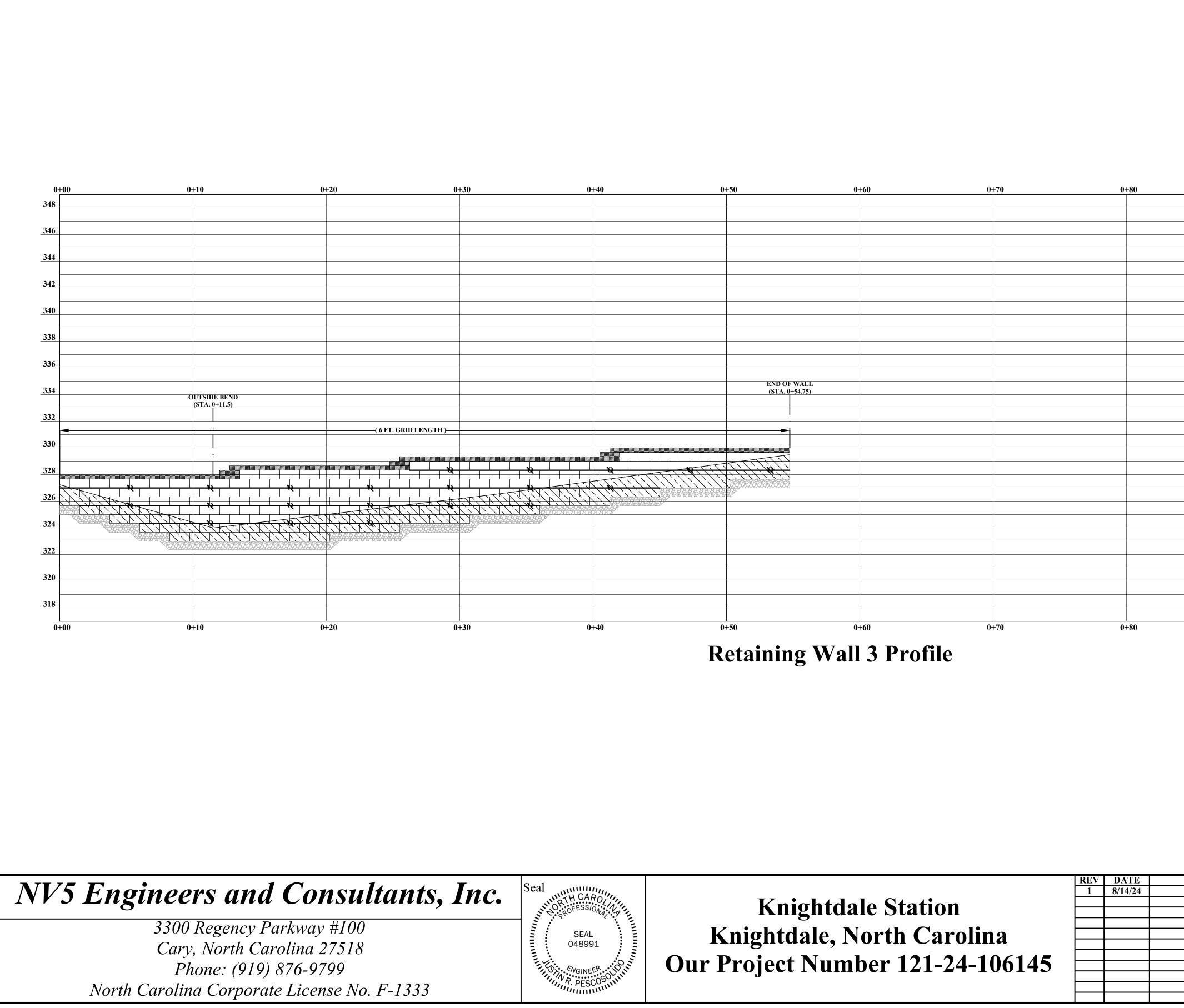




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| | | | | | 2). EMBEDDED BLOCK D ALLING PAD DESIG | DESIGNATION |
| DESCRIPTIC Wall 5 and 6 Add | | BY JGD | Reta | nining Wa | all 2 Prof | ile |
| | | | Designed by: Justin | R. Pescosolido, P.E. | Date: 7/12/24 | SHEET |
| | | | Drawn By: Jalen G. | Deatherage | Date: 7/12/24 | RW-4 |

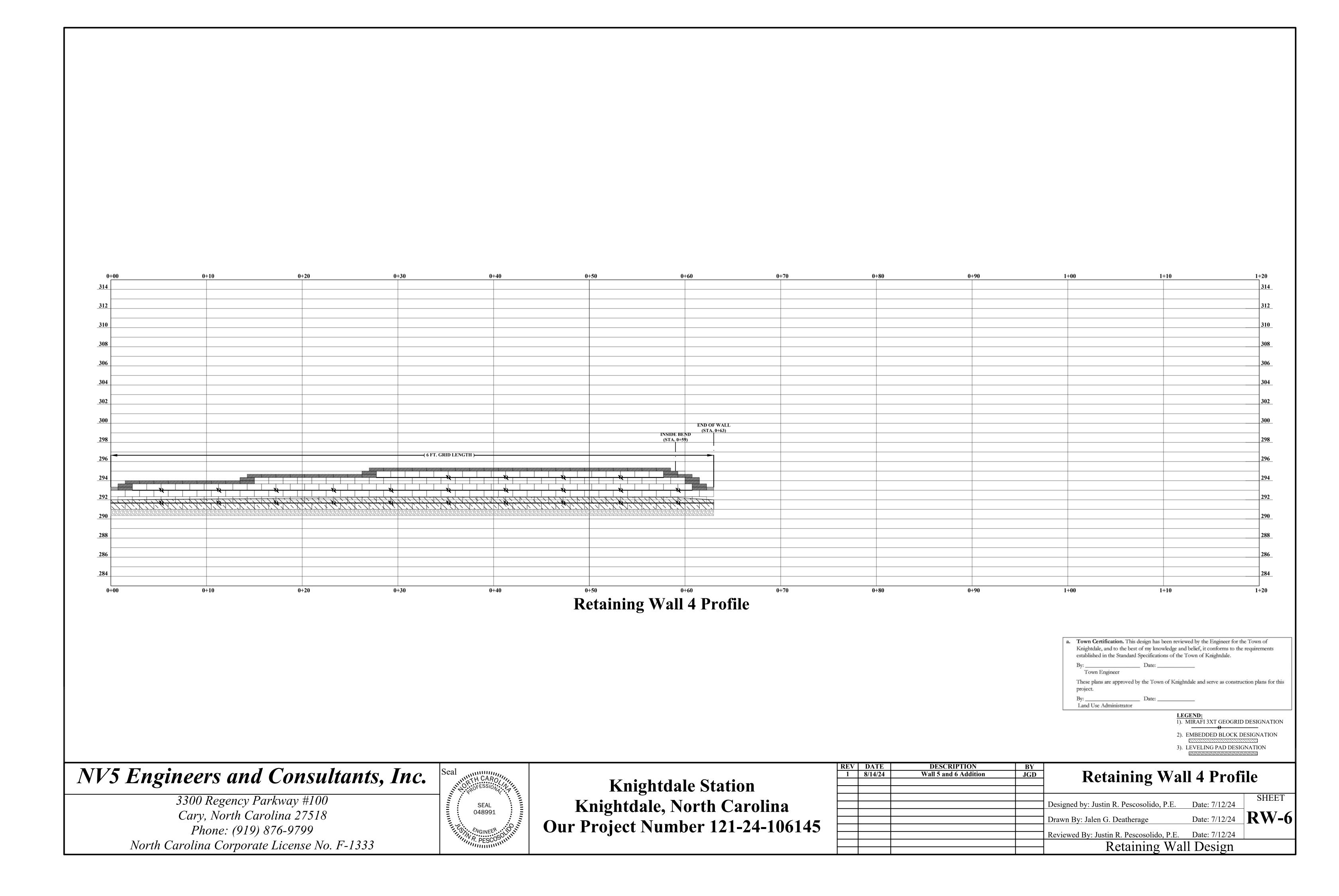
Reviewed By: Justin R. Pescosolido, P.E. Date: 7/12/24 Retaining Wall Design

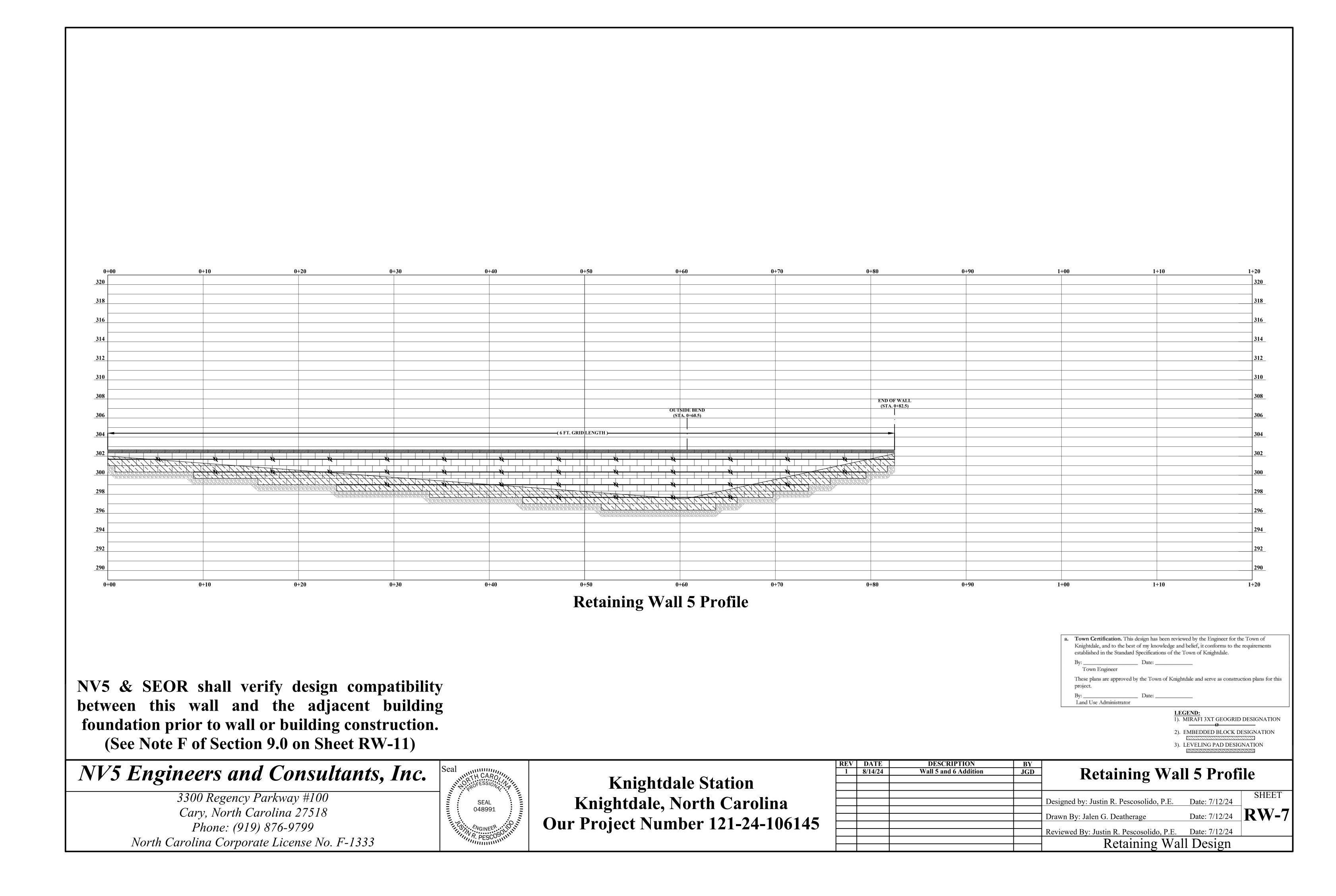
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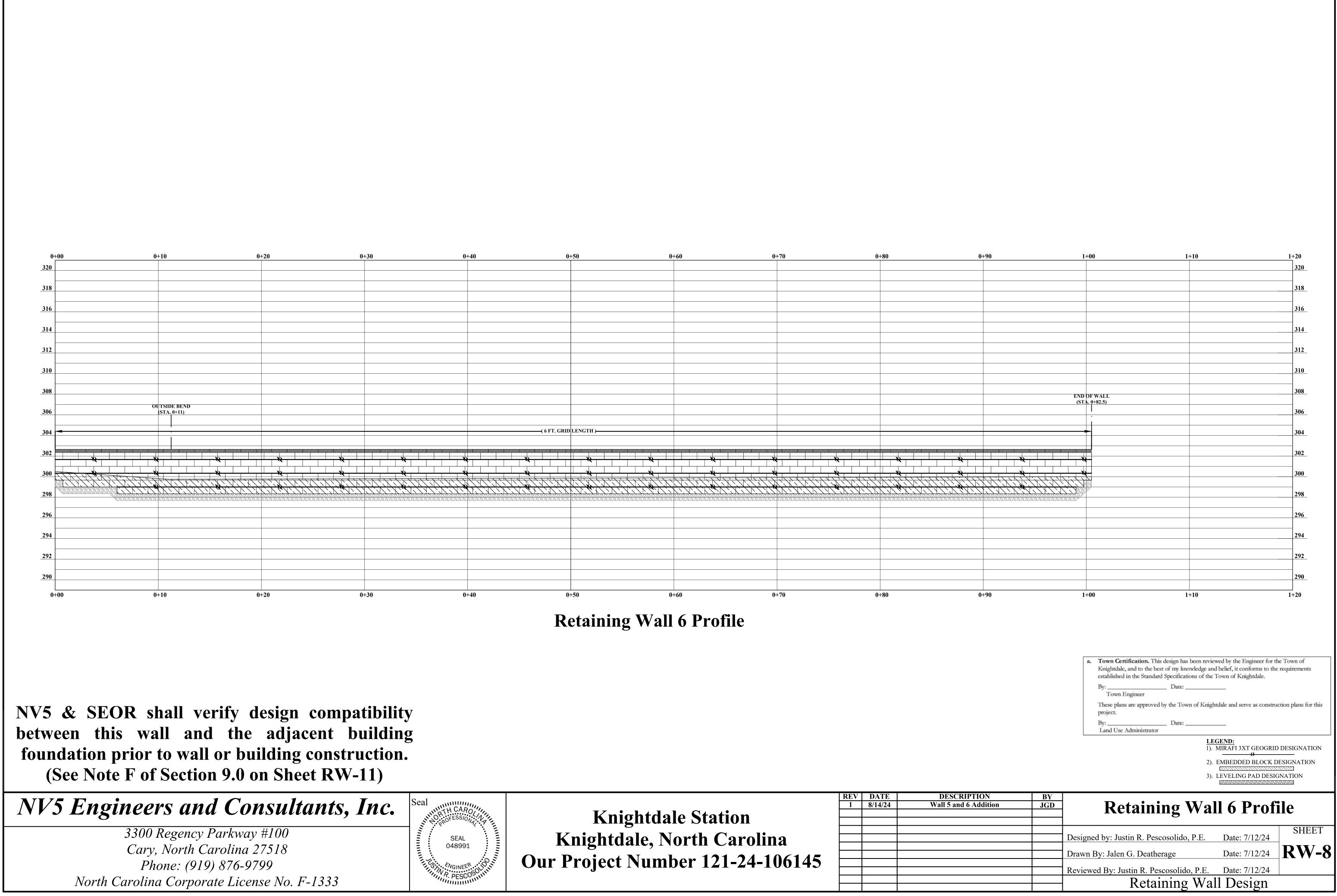


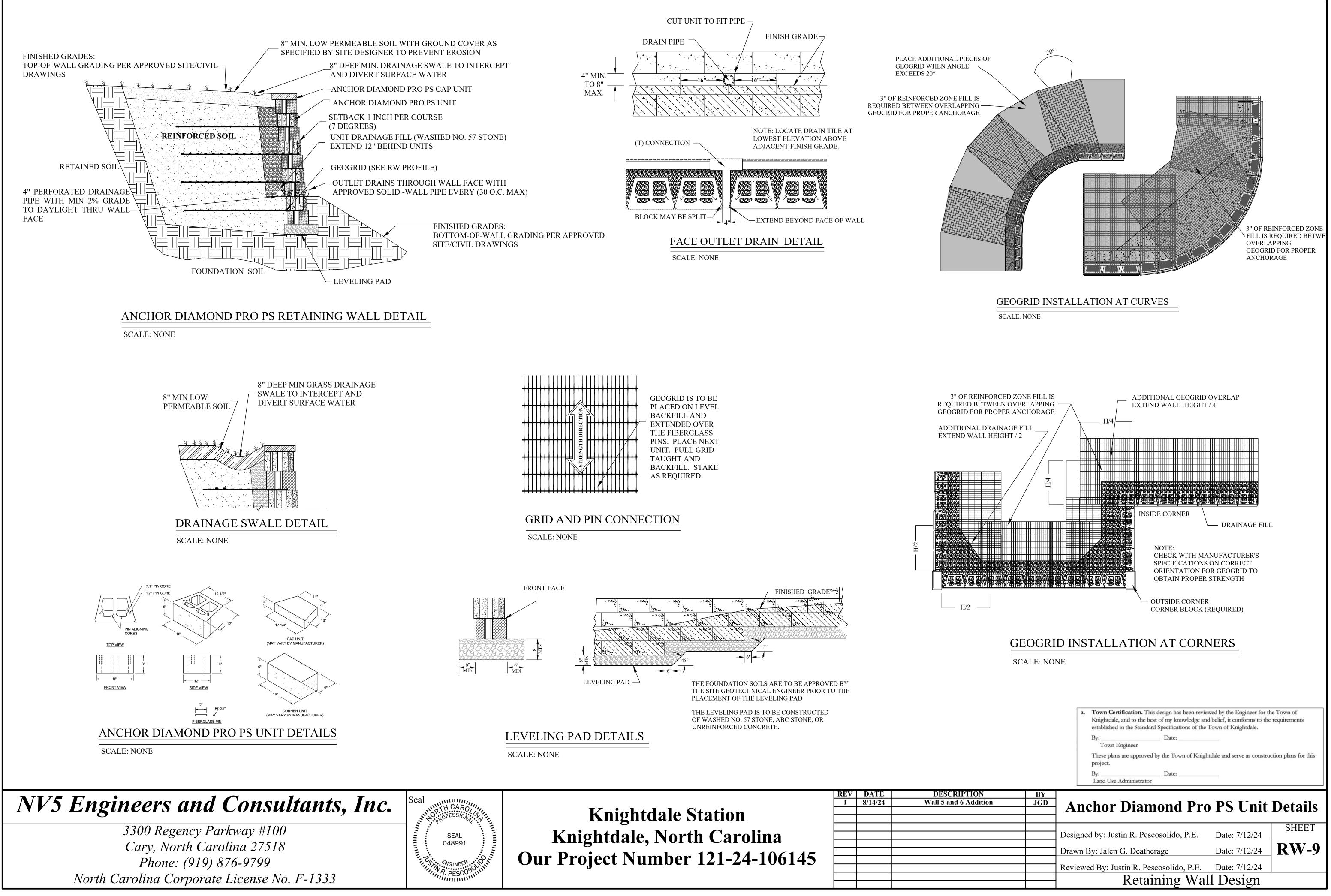
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| Wall 5 and 6 Add | lition | JGD | R | letaining V | Wall 3 Prof | ile |
| | | | Designed by: | Justin R. Pescosolido, | P.E. Date: 7/12/24 | SHEET |
| | | | | len G. Deatherage | Date: 7/12/24 | RW-5 |
| | | | | ~ | | |
| | | | Let letted by | : Justin R. Pescosolido | $\mathbf{W}_{2}11\mathbf{D}_{2}212211$ | |

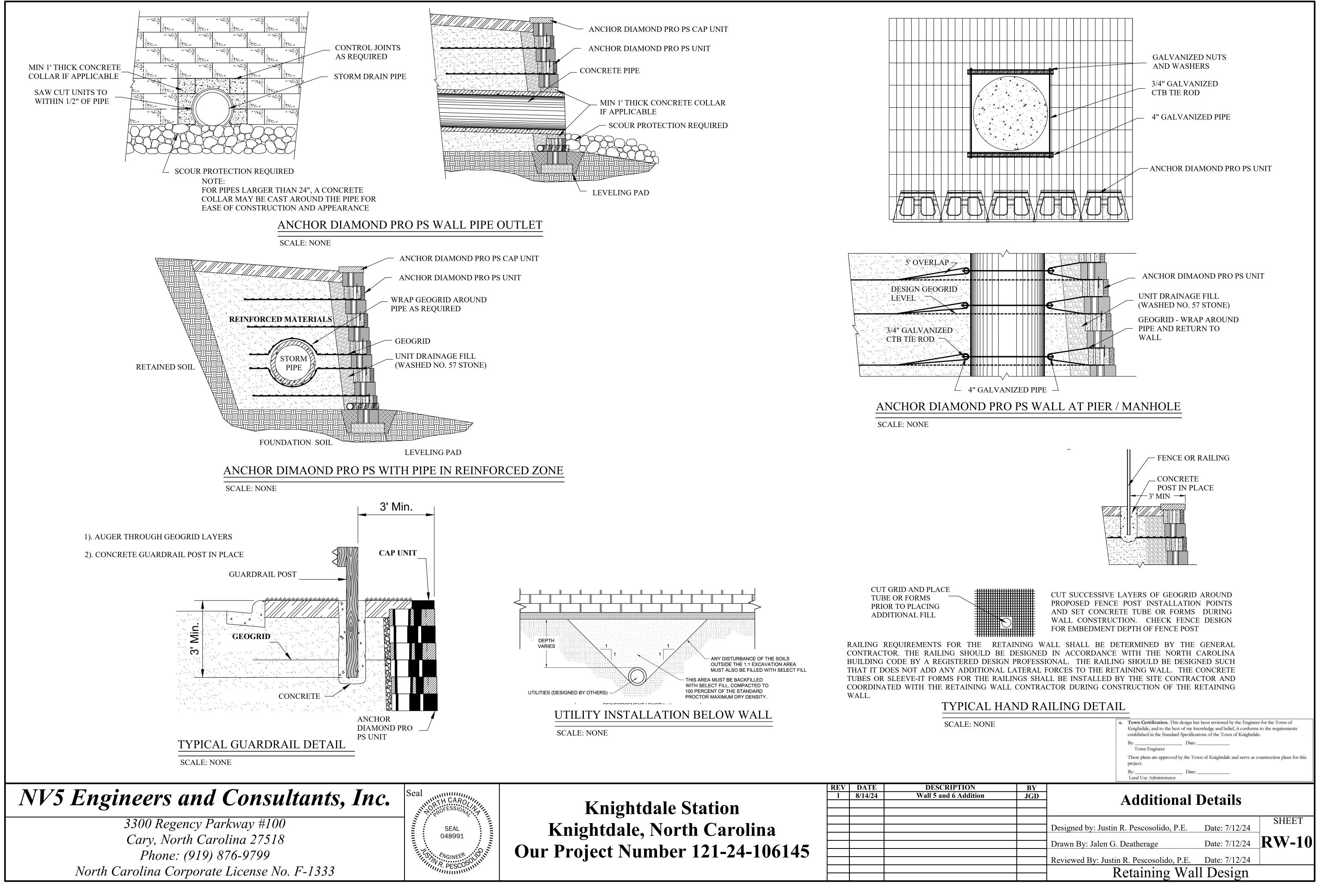
Retaining Wall Design

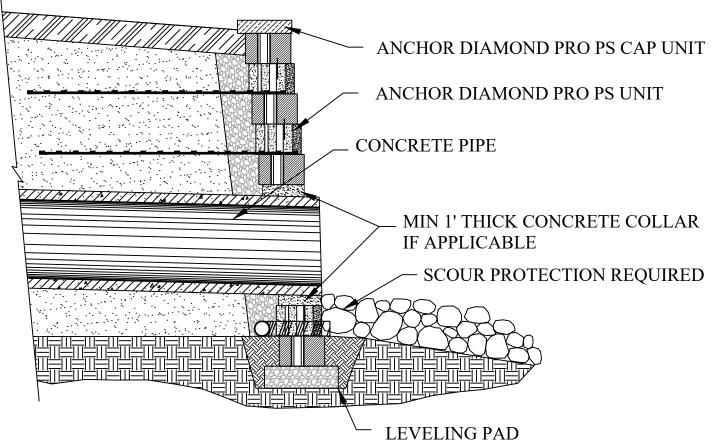












1.0 GENERAL

SEGMENTAL RETAINING WALL SYSTEMS ARE DESIGNED AS GRAVITY RETAINING WALLS UTILIZING A HIGH DENSITY POLYESTER GEOGRID TO REINFORCE THE SOIL ZONE BEHIND THE WALL. THE GEOGRID IS POSITIVELY CONNECTED TO THE MODULAR CONCRETE BLOCK CREATING A REINFORCED SOIL MASS CAPABLE OF RESISTING CERTAIN LATERAL EARTH PRESSURES AND SURCHARGED LOADS. ALL REFERENCES TO THE ENGINEER REFER TO NV5 ENGINEERS AND CONSULTANTS, INC. 1.1 QUALITY ASSURANCE

WORK SHALL BE PERFORMED ONLY BY AN EXPERIENCED CONTRACTOR. CONTRACTOR SHALL SUBMIT TO THE CERTIFYING ENGINEER EVIDENCE OF QUALIFICATIONS AND REFERENCES ON PROJECTS OF SIMILAR SCOPE. THE CERTIFYING ENGINEER RESERVES THE RIGHT TO REJECT ANY AND ALL QUALIFICATIONS SUBMITTALS. THE OWNER AND/OR GENERAL CONTRACTOR SHOULD PROVIDE AN INSPECTOR AS A FULL-TIME CONTINUOUS MONITOR OF WORK QUALITY.

1.2 BACK FILL MATERIALS

THE SOIL MATERIAL ASSOCIATED WITH THE RETAINING WALL(S) IN THE REINFORCED ZONE, THE RETAINED ZONE, OR THE FOUNDATION BEDDING SHALL HAVE, AT A MINIMUM, THE FOLLOWING PROPERTIES:

A.) FOUNDATION SOILS B.) RETAINED SOILS

 $\Phi = 26$ DEGREES, COHESION = 0 PSF, WET UNIT WEIGHT = 115 LBS/CU.FT $\Phi = 26$ DEGREES, COHESION = 0 PSF, WET UNIT WEIGHT = 115 LBS/CU.FT $\Phi = 28$ DEGREES, COHESION = 0 PSF, WET UNIT WEIGHT = 120 LBS/CU.FT

C.) REINFORCED SOILS

SEE PROFILE SHEETS FOR BOTTOM OF WALL ELEVATIONS. IF THE ASSUMED VALUES DO NOT REPRESENT THE ACTUAL SOIL CONDITIONS, THE ENGINEER SHALL BE NOTIFIED AND THE WALL(S) SHALL BE REDESIGNED.

1.3 FOUNDATION LOADS THE MAXIMUM APPLIED FOUNDATION LOAD FOR THE WALL(S) IS 2000 PSF.

1.4 WALL BATTER

BATTER FOR THE ENTIRETY OF THE WALL SHALL BE MAINTAINED AT 7 DEGREES. (REAR-PIN SETTING) 2.0 CONCRETE MASONRY WALL UNITS

CONCRETE WALL UNITS SHALL BE SEGMENTAL UNITS MANUFACTURED IN ACCORDANCE WITH ASTM C-1372 AND ASTM C-140, AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI. UNITS SHALL BE INTERLOCKED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

2.1 RETAINING WALL SHEAR CONNECTIONS

SEGMENTAL UNITS SHALL BE INTERLOCKED WITH SUITABLE SHEAR PINS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. 2.2 GEOGRID REINFORCEMENT

GEOSYNTHETIC REINFORCEMENT FOR THE WALL SHALL CONSIST OF HIGH TENACITY GEOGRIDS MANUFACTURED FOR SOIL REINFORCEMENT APPLICATIONS. THE TYPE, LENGTH, AND PLACEMENT OF THE REINFORCING GEOSYNTHETIC SHALL BE AS SHOWN ON THE PLANS.

2.3 GEOTEXTILE FILTER FABRIC

GEOTEXTILE FILTER FABRIC (IF REQUIRED) SHALL CONSIST OF NEEDLE PUNCHED NON-WOVEN POLYPROPYLENE MATERIAL WHICH MEETS THE AASHTO M288-2006 CLASS 3 STRENGTH CRITERIA. IT SHALL HAVE A MAXIMUM AVERAGE ROLL VALUE OF 0.25 MM FOR ITS APPARENT OPENING SIZE AND PERMITIVITY OF AT LEAST 0.2/SEC. PRE-APPROVED NON-WOVEN GEOTEXTILES INCLUDE AMOCO 4546, CARTHAGE MILLS FX-40HS, SYNTHETIC INDUSTRIES GEOTEX 401, AND TENCATE MIRAFI 140N.

2.4 LEVELING PAD

MATERIAL SHALL CONSIST OF COMPACTED AGGREGATE BASE COURSE (ABC) STONE, WASHED NO. 57 STONE, OR UNREINFORCED CONCRETE. THE LEVELING PAD SHALL BE AT LEAST 8" IN DEPTH. IF ABC STONE IS USED, IT SHALL BE COMPACTED TO 95% OF THE MODIFIED PROCTOR (ASTM D-698) MAXIMUM DRY DENSITY. AGGREGATE MATERIAL SHALL RECEIVE A MINIMUM OF ONE PASS OF THE COMPACTION EQUIPMENT. THE LEVELING PAD TOP FOR THE WALL SECTIONS SHALL BE MAINTAINED AS SHOWN ON THE RETAINING WALL PROFILES.

2.5 UNIT FILL

THE VOID WITHIN AND BETWEEN EACH UNIT SHALL BE FILLED WITH WASHED (NO. 57) STONE HAVING 100% OF THE AGGREGATE PASSING THE 2" SIEVE. MINIMUM 3/8" WASHED STONE SIZE IS REQUIRED (NO MORE THAN 5% PASSING THE NO. 200 SIEVE). A MINIMUM OF 12 INCHES OF THIS SAME MATERIAL SHALL BE PLACED AT THE BACK OF EACH BLOCK AS INDICATED ON THE ANCHOR DIAMOND PRO PS UNIT DETAILS SHEET. EACH COURSE SHALL BE COMPLETELY FILLED AND EXCESS MATERIAL SWEPT CLEAN FROM THE TOP BLOCK BEFORE INSTALLING THE NEXT COURSE

2.6 SOIL PROPERTIES

REINFORCED ZONE FILL MATERIALS (WHERE SOILS PERMITTED) SHALL CLASSIFY AS GM, GP, SP, SP-SM, SM OR SC WITH NO MORE THAN 20% FINES (W/W). THE MINIMUM INTERNAL ANGLE OF FRICTION, COHESION, AND WET UNIT WEIGHT SHALL BE EQUAL TO OR GREATER THAN THE DESIGN VALUES PROVIDED IN SECTION 1.2. WHERE NOTED ON PROFILE, REINFORCED ZONE SHALL CONSIST OF WASHED NO. 57 STONE.

2.7 UNSUITABLE MATERIAL

SOILS CONTAINING ROOTS, BRUSH, SOD, OR OTHER ORGANIC MATERIAL SHALL NOT BE PERMITTED AS FILL. FROZEN SOILS, SNOW, ICE, HEAVY CLAYS, OR WET SOILS SHALL NOT BE PERMITTED AS FILL. MATERIAL PASSING THE NO. 40 SIEVE SHALL NOT HAVE A LIQUID LIMIT GREATER THAN 40 AND A PLASTICITY INDEX OF GREATER THAN 15, UNLESS WRITTEN CONSENT IS OBTAINED FROM THE DESIGN ENGINEER PRIOR TO PLACEMENT.

3.0 FOUNDATION REQUIREMENTS

THE FOUNDATION BEARING CAPACITY ASSUMED FOR THIS DESIGN SHALL BE VERIFIED IN THE FIELD AND COPIES OF THE TESTS PROVIDED TO THE CERTIFYING ENGINEER. THE FOUNDATION SURFACE SHALL BE CLEARED OF ALL DEBRIS AND LOOSE SOIL. FOUNDATION SOILS NOT MEETING THE MINIMUM DESIGN CRITERIA, SHALL BE REMOVED AND REPLACED UTILIZING AGGREGATE BASE COURSE (ABC) STONE, PLACED IN LIFTS NOT EXCEEDING 9", AND COMPACTED TO AT LEAST 95% OF THE MODIFIED PROCTOR (ASTM D-698) MAXIMUM DRY DENSITY.

NV5 Engineers and Consultants, Inc.

3300 Regency Parkway #100 Cary, North Carolina 27518 Phone: (919) 876-9799 North Carolina Corporate License No. F-1333

3.1 FIRST BLOCK COURSE

THE FIRST COURSE OF BLOCK SHALL BE PLACED ON TOP OF AND IN FULL CONTACT WITH THE LEVELING PAD. THE UNITS SHALL MAINTAIN A MINIMUM DISTANCE OF 6" FROM THE FRONT AND BACK OF THE LEVELING PAD. PROPER ALIGNMENT MAY BE ACHIEVED WITH THE AID OF A STRING LINE. PROCEED TO THE NEXT COURSE OF BLOCK. EACH UNIT SHALL BE IN CONTACT WITH THE UNITS ON BOTH SIDES AS WELL AS ABOVE AND BELOW. SOME ADJUSTMENTS MAY BE REQUIRED FOR WALLS WITH CURVES AND A BATTER.

3.2 GEOGRID INSTALLATION

THE GEOGRID REINFORCEMENT SHALL BE LAID HORIZONTALLY ON COMPACTED REINFORCED ZONE FILL AND POSTITIVELY CONNECTED TO THE CONCRETE WALL UNITS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. GEOGRID SHALL BE PULLED TAUT, REMOVING ALL SLACK, AND ANCHORED BEFORE ADDING FILL. GEOGRID SHALL BE INSTALLED AT THE ELEVATIONS AND LENGTHS INDICATED ON THE RETAINING WALL PROFILE. THE SOIL SURFACE SHALL BE SMOOTH AND LEVEL AND HAVE BEEN COMPACTED BEFORE INSTALLING THE GEOGRID.

3.3 REINFORCED ZONE FILL PLACEMENT

REINFORCED ZONE PROCESSED FILL OR ABC STONE SHALL BE PLACED IN A MAXIMUM 6" LIFT THAT IS COMPACTED TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN 3% OF THE OPTIMUM MOISTURE CONTENT. ONLY HAND OPERATED EQUIPMENT SHALL BE ALLOWED WITHIN 3 FEET OF THE SEGMENTAL UNITS. FILL SHALL BE PLACED FROM THE WALL REARWARD TO INSURE TAUTNESS OF THE GEOGRID. CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED DIRECTLY ON THE GEOGRID. AGGREGATE FILL TO RECEIVE NO LESS THAN 4 PASSES OF SUITABLE COMPACTION EQUIPMENT.

3.4 RETAINING WALL CAP UNITS

4.0 SOIL TESTING

WHERE REINFORCED PROCESSED FILL MATERIALS ARE PLACED, COMPACTION TESTING SHALL BE PERFORMED FOR EVERY LIFT ELEVATION REQUIRING GEOGRID OR EVERY THIRD LIFT AS A MINIMUM. TEST RESULTS SHALL BE PROVIDED TO THE CERTIFYING ENGINEER. VERIFICATION OF SUFFICIENT COMPACTIVE EFFORT SHOULD BE PERFORMED FOR CLEAN AGGREGATE PLACEMENT. VISUAL OBSERVATIONS ARE SUFFICIENT FOR CLEAN AGGREGATE COMPACTION VERIFICATION. 5.0 HYDROSTATIC PRESSURE POTENTIAL

ANY SURFACE RUNOFF OR STORMWATER SHALL BE DISCHARGED AWAY FROM THE WALL FOUNDATION AND ANY ADJACENT FOUNDATION SYSTEMS. FOUNDATION DRAINS FOR ADJACENT STRUCTURES SHOULD BE ADEQUATELY PIPED AWAY FROM THE RETAINING WALL. ROOF DRAINAGE SYSTEMS SHOULD BE DESIGNED TO PREVENT ROOF RUNOFF FROM BEING DISCHARGED BEHIND THE RETAINING WALL. SURFACE WATER COLLECTION AND PIPING SYSTEMS SHALL BE DESIGNED BY OTHERS FOR YARD AREAS BEHIND THE RETAINING WALL. DRAINAGE SYSTEMS SHALL BE DESIGNED AND MAINTAINED TO AVOID EROSION OF THE SOILS AT THE AREA BELOW THE WALL. 6.0 ACCEPTABLE BLOCK

SEGMENTAL BLOCK UNITS SHALL BE USED AND KEPT FREE OF DEFECTS THAT WOULD INTERFERE WITH THE PLACING OR POSITIONING OF THE UNIT OR IMPAIR ITS STRENGTH. THE CONTRACTOR SHALL PREVENT EXCESS MUD, WET CEMENT, EPOXY, AND THE LIKE MATERIALS FROM COMING IN CONTACT WITH AND AFFIXING TO THE UNITS. MINOR CRACKS INCIDENTAL TO THE USUAL METHOD OF MANUFACTURING OR MINOR CHIPPING RESULTING FROM SHIPMENT AND DELIVERY ARE NOT GROUNDS FOR REJECTION.

7.0 ACCEPTABLE GEOGRID

GEOGRID SHALL BE REJECTED IF 20% OR MORE OF A STRUCTURAL RIB HAS BEEN CUT OR RIPPED. THE CONTRACTOR SHALL INSPECT ALL GEOGRID DELIVERED TO THE SITE AND REJECT MATERIALS THAT MEET THIS CRITERIA. THE CONTRACTOR SHALL PREVENT EXCESS MUD, WET CEMENT, EPOXY, AND THE LIKE MATERIALS FROM COMING IN CONTACT WITH AND AFFIXING TO THE GEOGRID MATERIAL. IF THE GEOGRID IS DAMAGED ONSITE. IT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

8.0 DRAINAGE COMPOSITE

DRAINAGE COMPOSITE REQUIREMENTS TO BE DETERMINED BY PROJECT GEOTECHNICAL ENGINEER AT TIME OF CONSTRUCTION. 9.0 SPECIAL PROVISIONS

- **AVAILABLE**
- LESS THAN THAT WHICH IS SHOWN ON THE RETAINING WALL PROFILE.
- MAINTENANCE OF THE POND IS SOLELY THE RESPONSIBILITY OF THE OWNER.

10.0 QUALIFICATION OF DESIGN

- CONTRACTOR OF THE PROJECT. ALL SLOPES SHALL MEET CURRENT OSHA STANDARDS.
- OUTLINED ON THE RETAINING WALL PROFILE

| eal | Knightdale Station | REV 1 | DATE 8/14/24 | DESCRIPTION Wall 5 and 6 Addition | BY JGD | Specifications |
|----------------|--|----------|-----------------|--------------------------------------|-----------|---|
| SEAL 048991 | Knightdale, North Carolina Our Project Number 121-24-106145 | | | | | Designed by: Justin R. Pescosolido, P.E.Date: 7/12/24SHEETDrawn By: Jalen G. DeatherageDate: 7/12/24RW-11 |
| R. PESCOSO | | | | | | Reviewed By: Justin R. Pescosolido, P.E. Date: 7/12/24 Retaining Wall Design |

RETAINING WALL CAPS TO BE SECURED TO TOP COURSE OF BLOCK WITH APPROPRIATE ADHESIVE.

A). MAINTAIN THE DIRECTION OF DRAINAGE AWAY FROM THE WALL FACE AT ALL TIMES DURING CONSTRUCTION OF THE RETAINING WALL(S) AND FINISHED GRADING AS SHOWN ON THE DRAINAGE PLANS TO BE PREPARED BY OTHERS. B). NV5 ENGINEERS SHALL BE CONTACTED FOR REVIEW OF THE STRUCTURAL DRAWINGS FOR ADJACENT BUILDINGS AS THEY BECOME

C). THE ENGINEER SHALL BE NOTIFIED BY THE INSTALLING CONTRACTOR SHOULD THE EMBEDMENT DEPTH OF THE RETAINING WALL BE

D). AS PER THE NORTH CAROLINA STATE BUILDING CODE, A BUILDING PERMIT MUST BE OBTAINED PRIOR TO WALL CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE LOCAL MUNICIPALITY CODE ENFORCEMENT DIVISION TO OBTAIN A BUILDING PERMIT E). PROPER FUNCTIONALITY OF THE ADJACENT STORMWATER POND IS CRITICAL TO LONG-TERM WALL PERFORMANCE. REGULAR

F). REGARDING RETAINING WALLS #5 AND #6, NV5 SHALL BE CONTACTED FOR REVIEW OF THE FOUNDATION DESIGN OF THE ADJACENT STRUCTURES PRIOR TO WALL CONSTRUCTION. BOTH NV5 AND SEOR SHALL VERIFY DESIGN COMPATIBILITY

A). STABILITY OF ANY TEMPORARY SLOPES REQUIRED BY THE INSTALLATION OF A SEGMENTAL RETAINING WALL SHALL BE ADDRESSED BY A QUALIFIED GEOTECHNICAL ENGINEER. RESPONSIBILITY OF THESE TEMPORARY SLOPES RESTS WITH THE OWNER AND/OR THE

B). HANDRAIL/GUARDRAIL REQUIREMENTS SHALL BE DETERMINED BY THE ARCHITECT OR GENERAL CONTRACTOR. C). NOTIFY THE DESIGN ENGINEER PRIOR TO MODIFYING WALL CONSTRUCTION IF EXISTING SITE CONDITIONS DEVIATE FROM CONDITIONS

> a. 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.

Town Engineer

These plans are approved by the Town of Knightdale and serve as construction plans for this project.

Date: Land Use Administrator