



Preconstruction Meeting Attendance Sheet

Project Name: _____ Date: _____

<u>Name</u>	<u>Organization</u>	<u>Phone Number</u>	<u>Email Address</u>



<u>Name</u>	<u>Organization</u>	<u>Phone Number</u>	<u>Email Address</u>



1. **Tree Protection Fencing Installation Permit** is required prior to any site development activity such as but not limited to testing, clearing, grading, pond draining, utility work, and demolition. The application is available at the Planning Department offices, 73 Hunter Street, 2nd Floor and online at <http://www.apexnc.org/DocumentCenter/Home/View/461>; the fee is \$35.00. After the application is approved, complete the following in the order listed:
 - a. **Survey and Flag** - Survey and flag property lines and easements adjacent to protection areas such as saved trees, resource conservation areas (RCA), wooded buffers, riparian buffers, etc., and flag the limits of the protection fencing.
 - b. **Contact ZCO** - Contact the project Zoning Compliance Officer (ZCO) at 919 249-3426 at least 24 hours in advance to schedule an on-site meeting with your representative.
 - c. **Other Protection Measures** – If additional tree protection measures are required to be done by a certified arborist to protect existing saved trees such as root-pruning, air spading of roots, or fertilization, then this work needs to be coordinated now.
 - d. **Install Fencing** - Once limits are inspected and approved by the Zoning Compliance Officer and any other required protection measures are complete, then fencing and signs may be installed.
 - e. **Final Inspection** - Contact the project Zoning Compliance Officer for a final inspection of installed protection measures.

Tree Protection Fencing and any other required protection measures must be installed, inspected, and approved before obtaining approval to install S&E measures, grading permits, demolition permits, and building permits. Tree Protection Fencing must remain in place and maintained properly during the entirety of the project and all protected areas must remain undisturbed. Failure to do so will result in the issuance of civil penalties and other measures such as a stop work orders and/or permit revocations.

2. **Landscape Installation and Inspection** – Landscaping must meet approved plans and UDO standards and generally accepted green industry standards. Plants of inferior quality or size will be rejected. Improper installation methods will not be accepted such as aggressive pruning, planting in compacted, rocky or clay soils, planting too high or too low, and over mulching. Landscape installation inspections must follow this basic sequence:
 - a. **Residential** –
 - **Buffer and common area landscaping** installed prior to subdivision plat approval for each Phase (note that areas with site plans such as the amenity center follow the non-residential process)
 - **Individual lot landscaping** installed on each lot prior to the home's C.O.
 - b. **Non-Residential** –
 - Install before final C. O.



Special plantings such as but not limited to street trees within rights-of-way that require additional measures such as root trenches and root-barriers will need to be coordinated with other Town departments (Engineering, Water Resources, etc.).

3. **Site Elements and Amenities** such as but not limited to retaining walls, berms, fences, mail kiosk, dumpster/trash enclosures, parking, sidewalks, and exterior site lighting must meet the approved plan, UDO standards, TOA engineering specifications, and state/federal codes. Any proposed deviations from or additions to the plans related to site elements must receive prior approval by all relevant departments. Some basic standards required by Planning are:
- a. **Retaining Walls** – Before installation, stake locations in the field and contact the project ZCO for inspection. Provide a sample of the wall material such as a cap block showing the color.
 - **Segmental retaining walls** must be medium/dark brown or rust colored only – no gray or other colors allowed, and the color must be integral to the wall material, not applied per the detail in the site or subdivision plans.
 - **Gravity and cast in place structures** must meet UDO standards and follow the detail approved in the site or subdivision plans.
 - b. **Berms** must blend with the overall landscape and undulate to imitate the surrounding topography. They shall be constructed to drain well and be composed of soils suitable to grow and sustain plants with at least the top foot consisting of good quality topsoil; the slope of a berm shall not exceed a 3/1 run to rise ratio.
 - c. **Slopes** equal to or steeper than a 3/1 run to rise ratio must be planted with something other than turf grass (trees, shrubs, groundcovers); and in addition to plantings, slopes equal to or steeper than a 2/1 run to rise ratio may require other soil stabilization measures such as but not limited to matting and geo-textiles.
 - d. **Fences** are not allowed within buffers, RCA, or landscaped areas unless approved as part of the subdivision or site plan. There are also height and style restrictions and standards for fences so contact the project ZCO prior to installation.
 - e. **Site Lighting** must adhere to the approved plans. Fixtures and poles must be black, dark brown or architectural bronze only. Poles cannot encroach upon or interfere with required trees and must be at least 10 feet away from small type trees and at least 20 feet away from large type trees.
 - f. **Signs** require separate sign permits issued by the Planning Department. Signs proposed within buffers or other areas such as easements and medians require prior approval from the Town and if approved may require a separate sign easement. Signs are not allowed within sight triangles along roadways.



4. **Elevations, Materials, Finishes and Colors** – House and building elevations, materials, finishes and colors must meet the approved subdivision or site plan; any proposed changes will require amending the approved plans. Other typical Planning requirements:
 - a. **HVAC, Mechanical and Other Utility Equipment** - Ground located or roof-top mounted HVAC, mechanical and other utility equipment for multi-family and non-residential buildings, must be screened from off-site view.
 - b. **Smaller Electrical/Mechanical/Plumbing Devices** - Electrical/mechanical/plumbing devices, panel boxes, piping, conduit, vents and similar items must be incorporated into the architectural design of the building. Where it is impractical to physically screen these devices they may be painted to match and blend with the primary building color or material of the wall they are affixed to.
 - c. **Residential Exterior Steps** – Some subdivisions may have conditions requiring minimum floor height and step requirements. If this requirement is not detailed on the approved plans you will be required to submit a standard detail showing how this condition will be met prior to the start of construction of the first house.

5. **Changes or Deviations** – Any proposed changes or additions to or deviations from the approved subdivision or site plan must be submitted for review and approval by all relevant town departments before they can be implemented. Some very minor changes such as substituting plant material may be approved in the field, but most will require plan amendment and some substantial changes may require resubmittal and approval by the Apex Town Council.

6. **Final Inspections**
 - a. **Residential** –
 - **A final landscape inspection** will be conducted by the project ZCO prior to subdivision plat approval for each phase to ensure that all landscaping within buffers and common areas adhere to the approved plan and town standards (see item 2 above).
 - **A final overall site inspection** will be conducted by the project ZCO prior to the issuance of the last C.O. within a phase to ensure that all site elements within common areas adhere to the approved plan and town standards (see item 3 above).
 - b. **Non-Residential** – A final overall site inspection will be conducted by the project ZCO prior to the issuance of the C. O. The Zoning Compliance Officer will inspect all landscaping, site elements and amenities, building elevations/materials/finishes/colors, and site lighting for adherence to the approved plan and UDO standards (see items 2, 3, and 4 above). Other items:



- **Lighting Certification** – All site lighting not installed by the TOA Electrical Department or Duke Energy requires a Lighting Certification letter from a registered engineer, architect or qualified lighting design professional certifying that the site lighting as installed meets the approved plans and the Town’s UDO standards. The letter must include a report of a night-time site inspection made by the engineer/architect/lighting professional detailing how the installed lighting does or does not meet the approved plan and UDO standards, and if it does not meet the plan or standards, what steps will be required to bring the lighting into compliance. The report must be accompanied by a lighting photometric plan showing all installed lights, sample foot-candle readings juxtaposed with the original approved foot-candle levels. The letter must be sealed and signed.
- **Plats and Fees** – Before a C. O. is released the final plat must be submitted and accepted by the Planning Department and all required outstanding fees must be paid (i.e.: transportation fees, etc.).
- **Landscape Delay Bonds** – The Planning Department only accepts cash bonds and this is primarily for landscaping installation that needs to be delayed due to inappropriate planting season (i.e.: during the middle of the summer, extremely hot/cold, or very wet/dry weather conditions) or a serious lack of plant inventory from nursery growers. Bonding will not be allowed to be used to cover for scheduling problems and workloads of landscape contractors. If it is the right time of year to plant and plants are available then bonding will not be approved. If approved, the bond must be a cash bond at 150% of the cost to install the remaining plant material (all material and labor). The request must be in writing and include the original quote and material/labor costs breakdown from the landscape contractor. Delays in planting are typically to the next appropriate planting season or in 30 day increments.



INVOICE

TO: «Contact_Name»
 «Financially_Responsible_Person_Name»

FROM: James Misciagno, CPESC. Environmental Field Services Supervisor

DATE: November 3, 2020

RE: S&E Performance Guarantee
 «Project_____» («Project_Number»)

Based on the current development fee schedule, the following S&E Performance Guarantee is due for the referenced project and is payable by check or letter of credit. Please note that the S&E Performance Guarantee is refundable at the completion of the project. An administrative fee of \$300 for a letter of credit or \$100 for a check is due via a separate check. All checks are to be made payable to the Town of Apex.

For a letter of credit, please contact Jean Weatherman at (919) 249-3394 to coordinate the appropriate language.

	Disturbed Acreage	Unit Fee	Amount
S&E Performance Guarantee	_____	\$2,500/Acre	\$_____

TOTAL DUE

Administrative Fee (see above) \$300.00 or \$100.00

Please make check payable to *Town of Apex*.

Mail payment to: Town of Apex Attn: Jean Weatherman PO Box 250 Apex, NC 27502	Deliver payment to: Town of Apex Development Services 73 Hunter Street, 3 rd Fl Apex, NC 27502 Attn: Jean Weatherman
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Preconstruction Meeting

ATTACHMENT D

Soil Erosion and Sedimentation Control Requirements

Project Name: _____ Project Number: _____
Date: _____

Please note that NO development work is allowed until the Certificate of Compliance is issued.

Has the \$x,xxx performance guarantee been paid to Jean Weatherman, Engineering Department (3rd floor Apex Town Hall)? If not, coordinate any questions with Jean Weatherman for the approved wording if using a letter of credit.

As of April 1, 2019, all new construction activities are required to complete and submit an electronic Notice of Intent (NOI) form requesting (<https://edocs.deq.nc.gov/Forms/NCG01-NOI>) a Certificate of Coverage under the NCG010000 Construction Stormwater General Permit. This form **MUST** be submitted to the Town of Apex prior to the issuance of a Certificate of Compliance.

Prior to the start of work, a construction entrance must be installed and maintained throughout the life of the project per Town of Apex Detail #400.06. Mud that is dragged into the roadway must be cleaned ASAP or it will be cleaned by the Town of Apex and then billed back to the owner.

Prior to the issuance of the Certificate of Compliance, the permanent outlet structure for all permanent basins must be installed with the skimmer attached to the bottom drain.

Prior to the issuance of the Certificate of Compliance, all discharge points must have the FES installed and appropriate sized rip-rap must be installed per Town of Apex Standard #400.18.

Prior to the issuance of the Certificate of Compliance, all sediment basins and diversion ditches must be seeded, mulched and/or matted. All perimeter silt fence must be properly installed.

Prior to the issuance of the Certificate of Compliance, all clean water by-pass piping (if designed) must be installed unless site restrictions require it to be installed at a later date.

If the project is designed in phases, individual Certificates of Compliance will be issued based on the phase. If requested, Certificates of Compliance can be issued in stages even if the project is not phased. Submit your site specific staging sequence to Stan Fortier prior to starting any work.

Prior to the issuance of the Certificate of Compliance, the permit box and rain gauge must be in place. Refer to the Town of Apex Standard Details for the installation of all approved measures.

After the issuance of the Certificate of Compliance, the financial responsible party is fully responsible to complete the NCDENR self monitoring/inspection reports at least once per wk and after every 1." rain event. These records must be available for Town and/or NCDENR inspection.

As owner/developer/contractor you have read the S&E requirements as listed above and are expected to fully comply.

If there are any questions or concerns on how to move forward please contact James Misciagno at 919-372-7470 or at james.misciagno@apexnc.org

PO Box 250 Apex, NC 27502 | (919) 362-8166 | www.apexnc.org



INFRASTRUCTURE INSPECTIONS DIVISION REQUIRED INSPECTIONS

Sewer, Water, Streets, Pump Station, Force Main and Greenway Construction

Required inspections include, but are not limited to, the items listed herein. Required inspections must be approved by a Town of Apex inspector before completion. The contractor shall coordinate all work accordingly. All work shall be completed in accordance with the Town Standard Specifications and Standard Details (most recent version), unless specific deviation has been identified and approved by the Town in the most recent approved plans.

To schedule an inspection please call 919-249-3356.

All inspections require a minimum 24-hour notice unless otherwise noted.

Sanitary Sewer Installation

1. Existing sewer connection
2. By-pass pumping (minimum 5-day notice)
3. Foundations for manholes and other structures
4. Plug installation
5. Road bores (minimum 2-day notice)
6. Backfill and street patching
7. Service taps & laterals
 - a. Water Resources Infrastructure Inspectors can only inspect the lateral within the public right-of-way or easement limits to the first clean out.
 - b. Any lateral on private property requires a plumbing permit and must be inspected by the Code Enforcement Inspector in the Permits and Inspections Department.
8. Special bedding
9. Undercut of unsuitable material
10. Stream crossings
11. Air testing of mainlines and services
12. Vacuum testing manholes
13. Mandrel test
14. Final adjustments
15. Flushing and cleaning of lines
16. CCTV inspections by a third party (minimum 3-day notice)
17. Final inspection
18. Sewer plug removal



Water Distribution Installation

1. Shutdown of existing line (minimum 5-day notice)
2. Existing waterline connection
3. Road bores (minimum 2-day notice)
4. Backfill and street patching
5. Undercut of unsuitable material
6. Valve operation on existing water system
7. Inserting/Removing pig
8. Thrust collar assemblies
9. Thrust blocking
10. Rodding and restrained joint systems
11. Blow off valves
12. Air-relief valves
13. Main line valves
14. Fire hydrants
15. Sewer and storm drain crossings
16. Hydrostatic pressure test
17. Chlorine injection
18. Blow off chlorine
19. Bac-T test (minimum 24-hour notice)
20. Service taps and laterals
 - a. Water Resources Infrastructure Inspectors can only inspect the lateral/service within the public right-of-way or easement limits to the meter.
 - b. Any lateral/service on private property requires a plumbing permit and must be inspected by the Code Enforcement Inspector in the Permits and Inspections Department.
21. Final adjustments
22. Final inspection

Fire Sprinkler Lines, Fire Department Connections (FDC), Post Indicator Valves (PIV) are to be scheduled and inspected through the Town Fire Marshal at 919-362-4001.

Public Storm Drainage Installation

1. Existing storm drainage system connection
2. Road bores (minimum 2-day notice)
3. Backfill and street patching
4. Undercut of unsuitable material
5. Masonry and pre-cast box installation
6. Pipe bedding drain



7. Headwalls/Endwalls
8. Concrete slabs
9. Final adjustments
10. Flushing and cleaning of lines
11. CCTV inspections by a third party (minimum 3-day notice)
12. Final inspection

Street Installation

1. Undercut or geotextile material placement
2. Proof roll
3. Curb string line
4. Subgrade and crown grade
5. Proof-roll
6. Stone grade and crown
7. Paving
8. Road-widening lap-joints
9. Sidewalk forms and subgrade
10. Driveway aprons
11. Final Inspection

Greenway Installation

1. Greenway staking
2. Storm drainage crossings
3. Subgrade inspection
4. Subgrade proof roll
5. Stone base proof roll
6. Paving installation
7. Safety railings, driveway aprons, handicap ramps, entrance gates/bollards, benches and signage prior to setting or constructing

Pump Station Installation and Site Work

1. Foundations for manholes, wet wells, or other structures
2. Undercut of unsuitable materials
3. Structure delivery
4. Exterior/interior coatings
5. Underground pipe on pump station site



6. Thrust blocking, rodding, other specified reinforcement
7. Electrical and mechanical component delivery
8. Electrical and mechanical installation
9. Pump, rail, level control, SCADA installation, other accessories, etc.
10. Site drainage
11. Access drive
12. Subgrade inspection
13. Subgrade proof roll
14. Stone base proof roll
15. Paving installation
16. Fence
17. Startup test
18. Final inspection

Force Main Installation

1. Existing sewer connection
2. Thrust blocking, rodding, other specified reinforcement
3. Undercut of unsuitable material
4. Material transitions
5. Road bores (minimum 2-day notice)
6. Backfill and street patching
7. Thrust collar assemblies
8. Thrust blocking
9. Rodding and restrained joint systems
10. Water, sewer and storm drainage crossings
11. Hydrostatic pressure test
12. Air relief valves
13. Main line valves
14. Final adjustments
15. Final inspection

START OF WARRANTY AND END OF WARRANTY

WALK THRU INSPECTION SUBDIVISIONS & SITES CHECKLIST

Below is a checklist of items that must be completed before a final walk thru inspection will be scheduled and performed. Additional items may be identified during the construction and platting phases.

START OF WARRANTY

TESTING

Testing shall be scheduled and performed by the Infrastructure Inspector.

Sewer Testing: Pressure, Vacuum, and Mandrel testing. The lines must be flushed prior to mandrel testing and camera inspection.

Water Testing: Pigging, Chlorination, Hydrostatic Testing, and Bacteriological Samples (1 sample collected for each dead end or 1 per 1,000 feet). All testing must be completed prior to installation of services.

CAMERA INSPECTION

The first lift of asphalt must be down before camera inspection for sanitary and storm sewer (flush lines prior to camera) will be conducted.

The Infrastructure Inspector will notify you when the site is ready for camera inspection. Upon notification from the Infrastructure Inspector contact Tim Fontaine, Collections System Supervisor, at 919-249-3532 to coordinate the camera inspection schedule. The camera inspection may be scheduled with a 3rd party NAASCO PACP certified company or the Town of Apex Water Resources Operations Division. Plan accordingly if you elect to have the camera inspection performed by Water Resources Operations Division. The schedule is 5 to 6 weeks out for camera inspection services due to limited staff and resources.

The Developer/General Contractor is responsible for providing highlighted plan sheets of the area to be inspected via email to the parties listed below 48 hours prior to the scheduled camera inspection date. The plan sheets should include the project name and phase, water, sanitary and storm sewer lines and structures.

Infrastructure Inspectors:

Bryce Bernard bryce.bernard@apexnc.org
Alex Lanferman alex.lanferman@apexnc.org
Dewayne Carlyle dewayne.carlyle@apexnc.org
Chad Dusenberry chad.dusenberry@apexnc.org
Michael Fuller michael.fuller@apexnc.org
Paul Leon paul.leon@apexnc.org

Water Resources Operations:

Keithy McNeill keithy.mcneill@apexnc.org
John Osegueda john.osegueda@apexnc.org

NCDOT RIGHT-OF-WAY IMPROVEMENTS

All NCDOT right-of-way improvements must be completed and inspected by the NCDOT and Town of Apex, Serge Grebenschikov (Traffic Engineer) serge.grebenschikov@apexnc.org.

STORM SEWER

All storm sewer infrastructure shall be constructed and inspected per the Town of Apex Standard Specifications [Storm Drainage Sections 507 and 508](#). All catch basins must be clear of debris and ensure the correct grates are installed and welded spacer is completed prior to inspection.

INFRASTRUCTURE IMPROVEMENTS

The following infrastructure must be constructed prior to final walk thru:

Sidewalk, multi-use trail, and handicap ramps, roads (1st lift of asphalt) and curb and gutter, street signs, and common areas.

RECORD DRAWINGS

All Record Drawings must be electronically submitted for review and approval by the Infrastructure Inspection Division. See the [Water Resources Infrastructure Inspection webpage](#) for information on this process.

MISCELLANEOUS WATER and SEWER

All valves and hydrants will be visually inspected. All valves shall be open and 6-inch hydrant risers installed upon inspection.

Once the checklist items above have been performed you can contact your Infrastructure Inspector to schedule the Final Walk Thru Inspection. If during the Final Walk Thru, 20 or more punch list item are discovered the inspector will stop the inspection and you be required to reschedule the Final Walk Thru.

All items on the punch list must be completed, re-inspected, and approved to receive the Water Resources sign off on plats or certificate of occupancy. The Infrastructure Inspector will notify Development Services when the Final Walk Thru Inspection has passed.

STREET SIGN INSPECTIONS

Please use the following link to request start of warranty sign inspections.

<https://www.cognitofrms.com/TownOfApex1/StreetSigns> .

END OF WARRANTY

CAMERA INSPECTION

The first lift of asphalt must be down before camera inspection for sanitary and storm sewer (flush lines prior to camera) will be conducted.

The Infrastructure Inspector will notify you when the site is ready for camera inspection. Upon notification from the Infrastructure Inspector contact Tim Fontaine, Collections System Supervisor, at 919-249-3532 to coordinate the camera inspection schedule. The camera inspection may be scheduled with a 3rd party NAASCO PACP certified company or the Town of Apex Water Resources Operations Division. Plan accordingly if you elect to have the camera inspection performed by Water Resources Operations Division. The schedule is 5 to 6 weeks out for camera inspection services due to limited staff and resources.

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Infrastructure Inspectors:

Bryce Bernard bryce.bernard@apexnc.org
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Paul Leon paul.leon@apexnc.org

Water Resources Operations:

Keithy McNeill keithy.mcneill@apexnc.org
John Osegueda john.osegueda@apexnc.org

☐ NCDOT RIGHT-OF-WAY IMPROVEMENTS

All NCDOT right-of-way improvements must be completed and inspected by the NCDOT and Town of Apex, Serge Grebenschikov (Traffic Engineer) serge.grebenschikov@apexnc.org .

☐ STORM SEWER

All storm sewer infrastructure shall be constructed and inspected per the Town of Apex Standard Specifications [Storm Drainage Sections 507 and 508](#). All catch basins must be clear of debris and ensure the correct grates are installed and welded spacer is completed prior to inspection.

☐ INFRASTRUCTURE IMPROVEMENTS

The following infrastructure must be constructed prior to final walk thru:

Sidewalk, multi-use trail, and handicap ramps, roads (1st lift of asphalt) and curb and gutter, street signs, and common areas.

☐ MISCELLANEOUS WATER and SEWER

All valves and hydrants will be visually inspected. All valves shall be open and 6-inch hydrant risers installed upon inspection.

☐ STREET SIGN INSPECTIONS

Please use the following link to request end of warranty sign inspections.

<https://www.cognitofrms.com/TownOfApex1/StreetSigns> .

Below is a list of contacts and resources that you may find helpful during the construction process.

Town of Apex Contact List

Name	Title	Phone	Email
<u>Development Services</u>			
Jean Weatherman	Development Services Supervisor	919-249-3394	Jean.weatherman@apexnc.org
Neisha Maynard	Senior Program Support Specialist	919-372-7467	Neisha.maynard@apexnc.org
<u>Electric Department</u>			
Rodney Smith	Electric Technical Services Manager	919-249-3342	Rodney.smith@apexnc.org
<u>Fire Department</u>			
Karl Huegerich	Fire Marshall	919-249-4055	Karl.huegerich@apexnc.org
David Dillon	Deputy Fire Marshall	919-367-4062	David.dillon@apexnc.org
<u>Public Works & Transportation – Street Sign Inspection</u>			
Marc Smith	Street Sign Technician	919-372-7508 919-291-2869	Marc.smith@apexnc.org

Public Works & Transportation – Traffic Engineering			
Russell Dalton, P.E.,	Sr. Transportation Engineer	919-249-3358	Russell.dalton@apexnc.org
Serge Grebenschikov	Traffic Engineer	919-372-7448	Serge.grebenschikov@apexnc.org
Water Resources – Infrastructure Inspections			
Bryce Bernard	Senior Infrastructure Inspector	919-548-1743 919-249-1167	Bryce.bernard@apexnc.org
Alex Lanferman	Infrastructure Inspector	919-594-3723 919-249-3515	Alex.lanferman@apexnc.org
Dewayne Carlyle	Infrastructure Inspections Manager	919-337-7877 919-249-3386	Dewayne.carlyle@apexnc.org
Chad Dusenberry	Senior Infrastructure Inspector	919-249-3510 919-210-8633	Chad.dusenberry@apexnc.org
Michael Fuller	Infrastructure Inspector	919-249-3424 919-545-1804	Michael.fuller@apexnc.org
Paul Leon	Senior Infrastructure Inspector	919-337-7881 919-249-3378	Paul.leon@apexnc.org
Water Resources – Operations			
Keithy McNeill	Collections System Supervisor	919-397-8492 919-249-3325	Keithy.mcneill@apexnc.org
John Osegueda	Water Quality Supervisor	919-291-1102 919-249-3411	John.osegueda@apexnc.org
Water Resources – S&E			
James Misciagno	Environmental Field Services Supervisor	919-372-7470	James.misciagno@apexnc.org

Resource List

Resource	Location on Website: www.apexnc.org
Town of Apex Standard Specifications & Details	Public Works & Transportation Engineering webpage
Record Drawing Submittal Process	Water Resources Infrastructure Inspections webpage
IDT Plans	Development Services Electronic Plan Review webpage
Soil & Erosion Control Information	Water Resources Stormwater & Utility Engineering webpage