



March 15, 2019

Ms. Sarah K. O'Brien
Chatham Capitol, LLC
400 Market Street, Suite 115
Chapel Hill, NC 27516

AUTHORIZATION of Jordan Lake Water Supply Watershed Riparian Buffer Protection Rules (Watershed Protection Ordinance Section 304(J) 4 and 15A NCAC 2B .0267) Authorization Certificate

Project Name: Sunset Grove Phase 2

Dear Ms. O'Brien,

You have our authorization, in accordance with the Chatham County Watershed Protection Ordinance and any conditions listed below, to permanently impact approximately 21,382 ft² of the protected riparian buffers associated with the installation of one (1) roadway crossing. The impacts will occur within zones 1 and 2 of one (1) perennial stream (Parkers Creek) stream buffers within the Sunset Grove subdivision as described within your application submitted April 27, 2018, in the U.S. Army Corps of Engineers Nationwide Permit (SAW-2015-02128) revised June 12, 2018, NCDWR 401 Water Quality Certification dated June 29, 2018, and on the Buffer Impact Maps, completed by Mitchell Environmental, PA. Impacts to riparian buffers associated with an intermittent tributary to Parkers Creek will also occur; however, those buffers are entirely contained within the perennial buffers of Parkers Creek. The impacts associated with the stream crossing include clearing, grading, and construction activities associated with the installation of a 58.5' long aluminum structural plate pipe arch culvert with prefab headwalls. Temporary impacts associated with the culvert installation will consist of in-stream and stream bank erosion control devices associated with the pump around devices. The proposed pump around will consist of two (2) 7' sandbag stream plugs (upstream and downstream), and 120' of flexible PVC pipe that will discharge through a silt bag. These temporary impacts must be regraded, vegetated, and returned to existing conditions following the installation. Additionally, installation of a 24" RCP located within the roadway shoulder will occur. This RCP is associated with the conveyance of construction and post-construction stormwater to temporary skimmer basin #2. Temporary skimmer basin #2 will be converted to SCM-C following the completion of construction and permanent ground stabilization. This conveyance is entirely within the proposed impacts for the roadway crossing and therefore creates no additional impacts. Originally, impacts 93 ft² were proposed for a riprap dissipater pad below a culvert beneath the cul-de-sac of Shadow Ridge Way. The impacts for the dissipater pad were removed from the buffer and is accurately depicted on the revised buffer impacts maps. Therefore no impacts in this area are approved in the authorization.

Per your application, this review and authorization is only valid for those impacts associated with the permanent stream crossing of Parkers Creek, as described herein, and as described or depicted on the Buffer Authorization Application, Buffer Impact Maps, and the approved Soil Erosion and Sedimentation Control Plans dated March 9, 2019. Revisions to the project scope or plans described above may require additional reviews. In addition, you should obtain or otherwise comply with any other required federal, state or local permits before you proceed with your project including (but not limited to) Erosion and Sediment Control and Non-discharge regulations.



This authorization certification is for the purpose and design that you described in your application. If you change your project, you must notify us and you may be required to send us a new application. If the property is sold, the new owner must be given a copy of this authorization letter and is thereby responsible for complying with all conditions. This authorization requires you to follow the conditions listed below.

The Additional Conditions of the Certification are:

1. Impacts Approved

The following impacts are hereby approved as long as all of the other specific and general conditions of this Certification are met. No other impacts are approved including incidental impacts:

| Permanent Impacts | | |
|---|-------------------------|---------------------------------|
| <i>(Parkers Creek Road Crossing)</i> | | |
| | Amount Approved (Units) | Plan Location or Reference |
| Perennial Stream Buffers (Zone 1) | 6,658 (square ft.) | Buffer Impact Maps Sheets 1 & 2 |
| Perennial Stream Buffers (Zone 2 Inner) | 14,724 (square ft.) | Buffer Impact Maps Sheets 1 & 2 |

2. Temporary Impacts

Such impacts are typically associated with construction corridors, temporary access roads, and the installation and operation of temporary sediment and erosion control measures and devices. Approved temporary impacts must remain temporary in nature, minimize impacts to the riparian buffer, meet or exceed required Best Management Practices (BMP), perform and be maintained so that no violations of county riparian buffer or state water quality standards, statutes, or rules occur, and must be returned to the uses that were existing at the time of authorization. Temporary impacts associated with in-stream sediment and erosion control measures within the Jordan Lake Watershed are allowable for those projects that are not authorized under Section 401 and 404 of the Federal Water Pollution Control Act as defined in 15A NCAC 02B .0267 (9) – Table of Uses.

3. No Waste, Spoil, Solids, or Fill of Any Kind

No waste, spoil, solids, or fill of any kind shall occur in riparian areas beyond the footprint of the impacts depicted in the Pre-Construction Notification. All construction activities, including the design, installation, operation, and maintenance of sediment and erosion control Best Management Practices, shall be performed so that no violations of county riparian buffer or state water quality standards, statutes, or rules occur.

4. Diffuse Flow

An additional condition is that all stormwater shall be directed as diffuse flow at non-erosive velocities through the protected stream buffers and will not re-concentrate before discharging into the stream as identified within Section 304(J)2 of the Watershed Protection Ordinance.

5. Protective Fencing

The outside buffer boundary and along the construction corridor within these boundaries approved under this authorization shall be clearly marked with orange warning fencing (or similar high visibility material) for the areas that have been approved to infringe within the buffer, stream channel or water prior to any land disturbing activities to ensure compliance with the Watershed Protection Ordinance.

6. Certificate of Completion

All activities as proposed, and any subsequent modifications, approved within this authorization must be completed within one year of the issuance of the authorization. The applicant is required to certify that the completed project is in accordance with this authorization and shall submit actual 'as-built' plans. If proof of completion is not presented within this timeframe, then the person shall be in violation of both the State's and Chatham County's riparian buffer protection program.

7. Deed Notifications

Deed notifications or similar mechanisms shall be placed on all retained protective buffers in order to assure compliance for future buffer impact. These mechanisms shall be put in place at the time of recording of the property, or easements, whichever is appropriate.

Any disputes over determinations regarding this Authorization of Approvable Impacts (associated with the approved buffer impacts) shall be referred in writing to the Director of the Division of Water Resources, c/o the 401 & Buffer Permitting Unit. The Director's decision is subject to review as provided in G.S. 150B Articles 3 and 4.

The mailing address for the 401 & Buffer Permitting Unit is:

Ms. Karen Higgins
1650 Mail Service Center
Raleigh, NC 27699-1650
Telephone: 919-807-6300, Facsimile: 919-807-6494

This Authorization shall expire five (5) years from the date of this letter.

This letter completes the review of the "No Practical Alternatives" determination under Section 304(I) and 15A NCAC 2B .0267. If you have any questions or would like a copy of the buffer rules, please call Drew Blake at (919) 545-8394. This letter does not authorize any impacts to either



RIPARIAN BUFFER AUTHORIZATION APPLICATION

Double-click the boxes to select 'checked' or 'unchecked'. This is an un-protected document to allow as much user flexibility as possible. Changes to, or deletions of, content will not be tolerated. Please provide as much detail as possible to ensure prompt review and response to this application. Include maps or other graphics and photographs if available. If completed by hand, you are encouraged to utilize extra sheets of paper as necessary.

| PROJECT INFORMATION | |
|--|--|
| Is the project within the Jordan Lake Watershed? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Is a change in lot configuration proposed? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If yes, attach the acceptance letter from mitigation bank or in-lieu fee program. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Does the project require Corps of Engineers (Corps) or NC Division of Water Quality (NC DWQ) approval? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Name of Project: | Sunset Grove Subdivision |
| Nearest Road Intersection: | Sunset Grove Road and Starwood Drive |
| Subdivision Name: | Sunset Grove |
| OWNER INFORMATION | |
| Name(s) on Recorded Deed: | Chatham Capital, LLC |
| Deed Book and Page No.: | 1883, 0329 |
| Responsible Party (for LLC if applicable): | Sarah K. O'Brien |
| Street Address: | 400 Market Street, Suite 115 |
| City, State, Zip: | Chapel Hill, NC, 27516 |
| Telephone No.: | 919-933-4422 |
| Fax No.: | 919-869-2702 |
| Email Address: | sarah@bpropnc.com |
| APPLICANT INFORMATION (if different from owner) | |
| An agent authorization letter is required if applicant is not the owner | |
| Applicant is: | <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Other, specify: |
| Name: | Scott Mitchell, PE, LSS |
| Business Name (if applicable): | Mitchell Environmental, PA |
| Street Address: | 1501 Lakestone Village Lane, Suite 205 |
| City, State, Zip: | Fuquay-Varina, NC, 27526 |
| Telephone No: | 919-669-0329 |
| Fax No: | |
| Email Address: | Scott@mitchellenvironmental.com |
| PROJECT INFORMATION AND PRIOR PROJECT HISTORY | |
| Property Identification | |
| Property No. (AKPAR): | 17425 |
| Coordinates (dd.ddddd): | Latitude: 35.7574 Longitude: -79.0804 |
| Property size (ac.): | 107.85 |
| Surface Waters | |
| Name of nearest body of water: | Parkers Creek |



| | |
|---|--|
| Project Description | |
| Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Existing conditions on the site is mostly second growth forested vegetation. The land use in the near vicinity is agricultural, forestry, and residential. | |
| Explain the purpose of the proposed project: The purpose of the proposed project is to develop the property to meet the needs for residential homes, including utilities and roadway infrastructure. | |
| Describe the overall project in detail, including the type of equipment to be used: Equipment typical for road construction and utility installation and grading will be used to construct the proposed project such as track hoes, bulldozers, etc. | |
| Total estimated acreage of all wetlands on the property: | 0.25 |
| Total estimated acreage of all FEMA floodplains on the property (SFHA): | 0 |
| Total linear feet of all streams on the property (Perennial, Intermittent, and Ephemeral): | 4,985 |
| Jurisdictional Determinations | |
| Have jurisdictional wetland or stream determinations by the Corps or NC DWQ been Requested for this property / project (including all phases) in the past? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: |
| If yes, list the date(s) the determinations were provided: | October 14, 2015 by Chatham County (Stewart Pickens) and PJD issued by USACE (Andy Williams) on December 7, 2015 |
| Who delineated the jurisdictional areas (name): Scott Mitchell, PE, LSS | Agency / Consulting Company / Other: Timmons Group (<i>now with Mitchell Environmental</i>) |
| Project History | |
| Have permits or certifications been requested or obtained for this project (including all prior phases) in the past? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: |
| If yes, explain in detail: A USACE permit issued, June 16, 2016, and jurisdictional determination was previously issued under SAW-2015-02128. DWR 401 Certification issued April 25, 2016 (DWR#16-0349) | |
| Future Project Plans | |
| Is this a phased project? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: |
| If yes, explain: Project has 2 phases (<i>Phase 1 complete</i>), with Phase 2 in the midst of acquiring all required permits and authorizations. | |

PROJECT IMPACTS INVENTORY

Impacts Summary:

Which types of buffers will be impacted by the project? (check all that apply)

- Ephemeral (E, 30')
 Intermittent (I, 50')
 Perennial (P, 100')
 Perennial Water Body (WB, 50')
 Wetland (W, 50')
 FEMA Floodplain (FP, extents)

Buffer Impacts, reference each to attached figure or illustration:

| Buffer Impact number – permanent (P) or Temporary (T) | Purpose / Type of Impact | Stream Name: use name printed on USGS 7.5 minute topographic map, or UT (unnamed tributary of) <u>name on USGS map</u> | Buffer Type | Square Feet |
|---|--------------------------|--|-------------|-------------|
| B1 - P | Road crossing | Parkers Creek | P Zone 1 | 6,658 |
| B2 - P | Road crossing | Parkers Creek | P Zone 2 | 14,724 |
| B3 - | | | | |
| B4 - | | | | |
| B5 - | | | | |
| B6 - | | | | |
| B7 - | | | | |
| B8 - | | | | |
| B9 - | | | | |
| B10 - | | | | |
| B11 - | | | | |
| B12 - | | | | |
| B13 - | | | | |

Add rows as needed to list all buffer impacts separately. For buffers in the Jordan Lake Watershed, report I, P, and WB impacts as (Zone 1) first 30-feet, and (Zone 2) 30-50 feet landward. List any buffer impacts beyond Zone 2 normally.


Avoidance and Minimization

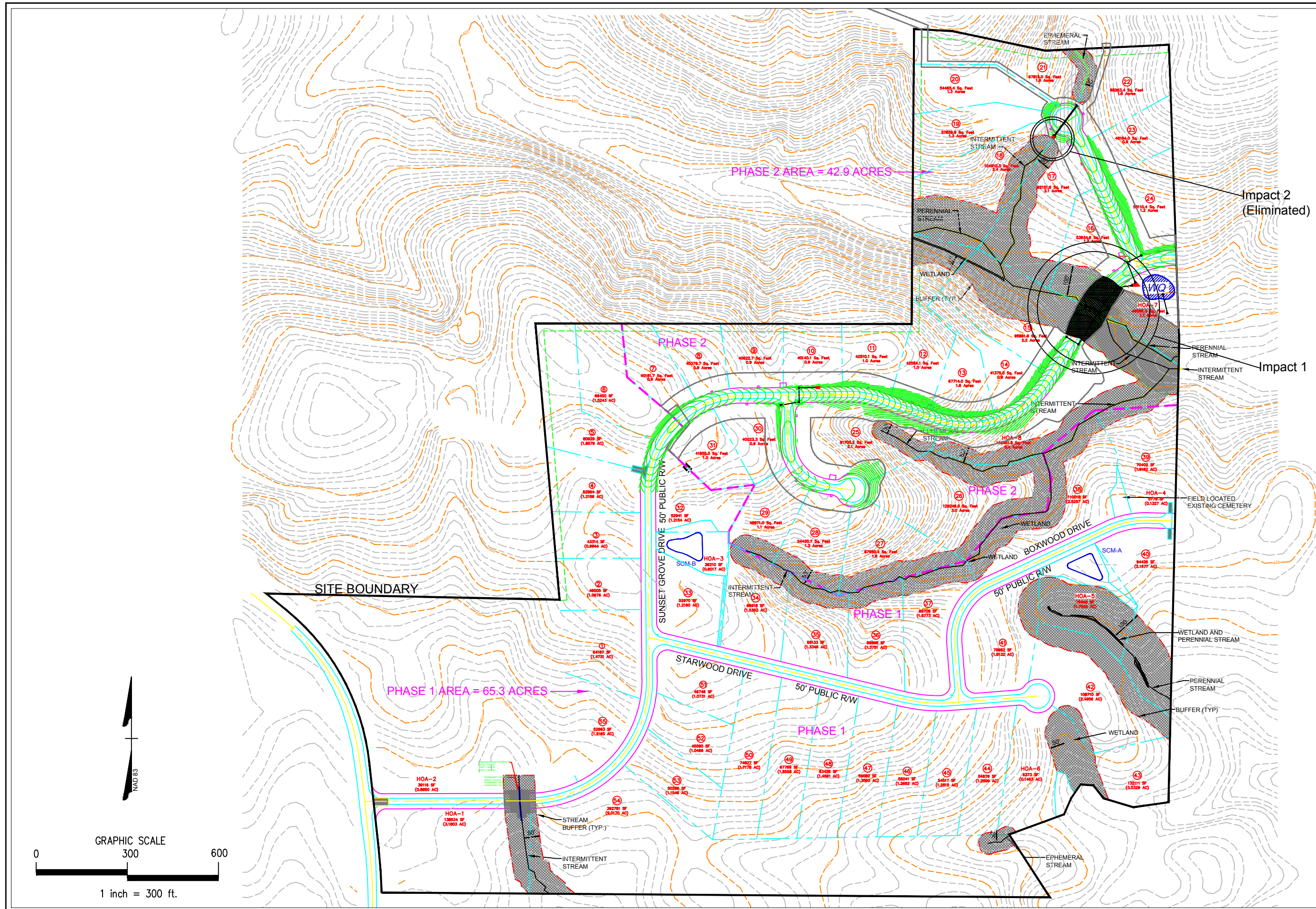
Specifically describe measures taken to avoid or minimize the proposed impacts in designing the project.

Due to the location of the jurisdictional feature, avoidance was impractical for this project in order to gain access to the remaining upland portions of the property. The stream crossing is proposed as perpendicular as is practical in an effort to minimize impacts.

Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques.

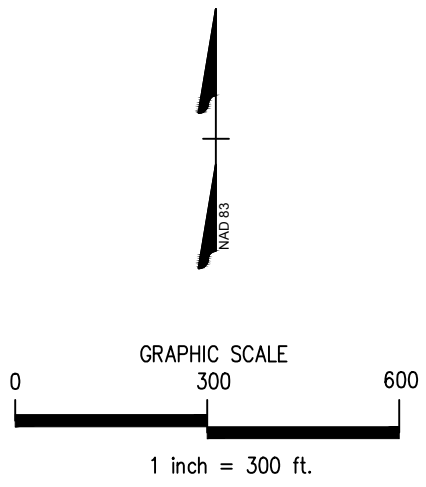
All disturbed areas will be bound by silt fence and tree protection fence prior to construction to prevent impacts to jurisdictional features outside of the proposed impact areas.

| Buffer Mitigation – Required by NC DWQ | | | | | |
|---|----------------|---|------------------------------|---|--|
| Will the project result in an impact within a protected riparian buffer that requires buffer mitigation? | | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | Comments: |
| If yes, then identify the square feet of the impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required. | | | | | |
| Zone | Type of Impact | Total Impact (square feet) | Multiplier | Required Mitigation (square feet) | |
| Zone 1 | | 3 | | | |
| Zone 2 | | 1.5 | | | |
| Total buffer mitigation required: | | | | | |
| If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment into private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund): | | | | | |
| Comments: | | | | | |
| Diffuse Flow Plan (DWQ Requirement) | | | | | |
| Is a diffuse flow plan included? If no, explain why. All stormwater for the site is/will be stored and treated via a Wet Pond and Grassed Bioretention cell per BMP manual. Overflows are discharged into rip-rap dissipater pads prior to discharge to buffers. | | | | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Violations (DWQ Requirement) | | | | | |
| Is the site in violation of Chatham County Riparian Buffer Rules? | | | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is this an after-the-fact permit application? | | | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| If you answered yes to either of the above, provide an explanation of the violation(s): | | | | | |
| Cumulative Impacts (DWQ Requirement) | | | | | |
| Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? | | | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| If yes, submit a qualitative and quantitative cumulative impact analysis in accordance with the most recent DWQ policy. If no, provide a short narrative description. | | | | | |
| This single-family residential subdivision is not likely to spur cumulative impacts. | | | | | |
| Scott Mitchell | |  | | | Date: |
| Applicant/Agent's Printed Name | | Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter form the applicant is provided). | | | 3/15/2019 |

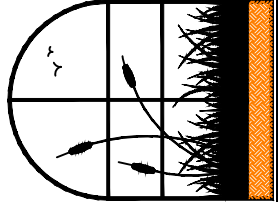


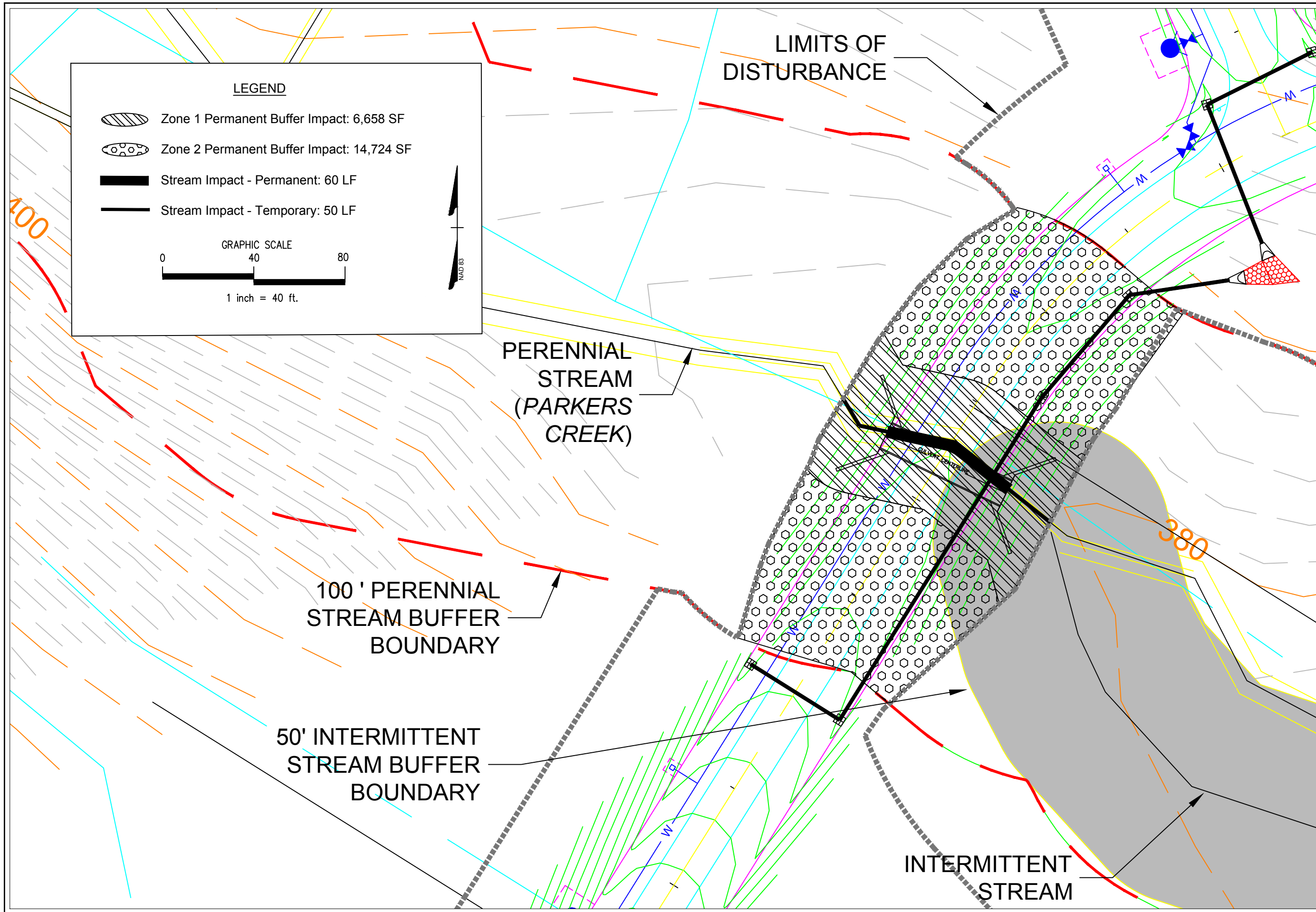
Impact 2 (Eliminated)

Impact 1



| | | | |
|--|------------|------------------------------|------------------|
| SHEET NUMBER | | 1 of 3 | |
| REVISION NO. | | DATE | |
| Original Submittal | Revision 1 | April 27, 2018 | February 7, 2019 |
| Revision 2 | Revision 3 | March 11, 2019 | ----- |
| Master Set | ----- | ----- | ----- |
| PREPARED FOR : Chatham Capital, LLC 400 Market St., Ste 115 Chapel Hill, NC 27516 | | DATE : March 11, 2019 | |
| ENGINEER AND SOIL SCIENTIST CONTACT: SCOTT MITCHELL, PE, LSS | | SURVEYOR CONTACT: | |
| MITCHELL ENVIRONMENTAL, PA C-2917 | | | |
| 1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526 | | | |
| Sunset Grove S/D Chatham County, NC Overall Impacts Map | | | |





LEGEND

- Zone 1 Permanent Buffer Impact: 6,658 SF
- Zone 2 Permanent Buffer Impact: 14,724 SF
- Stream Impact - Permanent: 60 LF
- Stream Impact - Temporary: 50 LF

GRAPHIC SCALE
0 40 80
1 inch = 40 ft.

NAD 83

LIMITS OF DISTURBANCE

PERENNIAL STREAM (PARKERS CREEK)

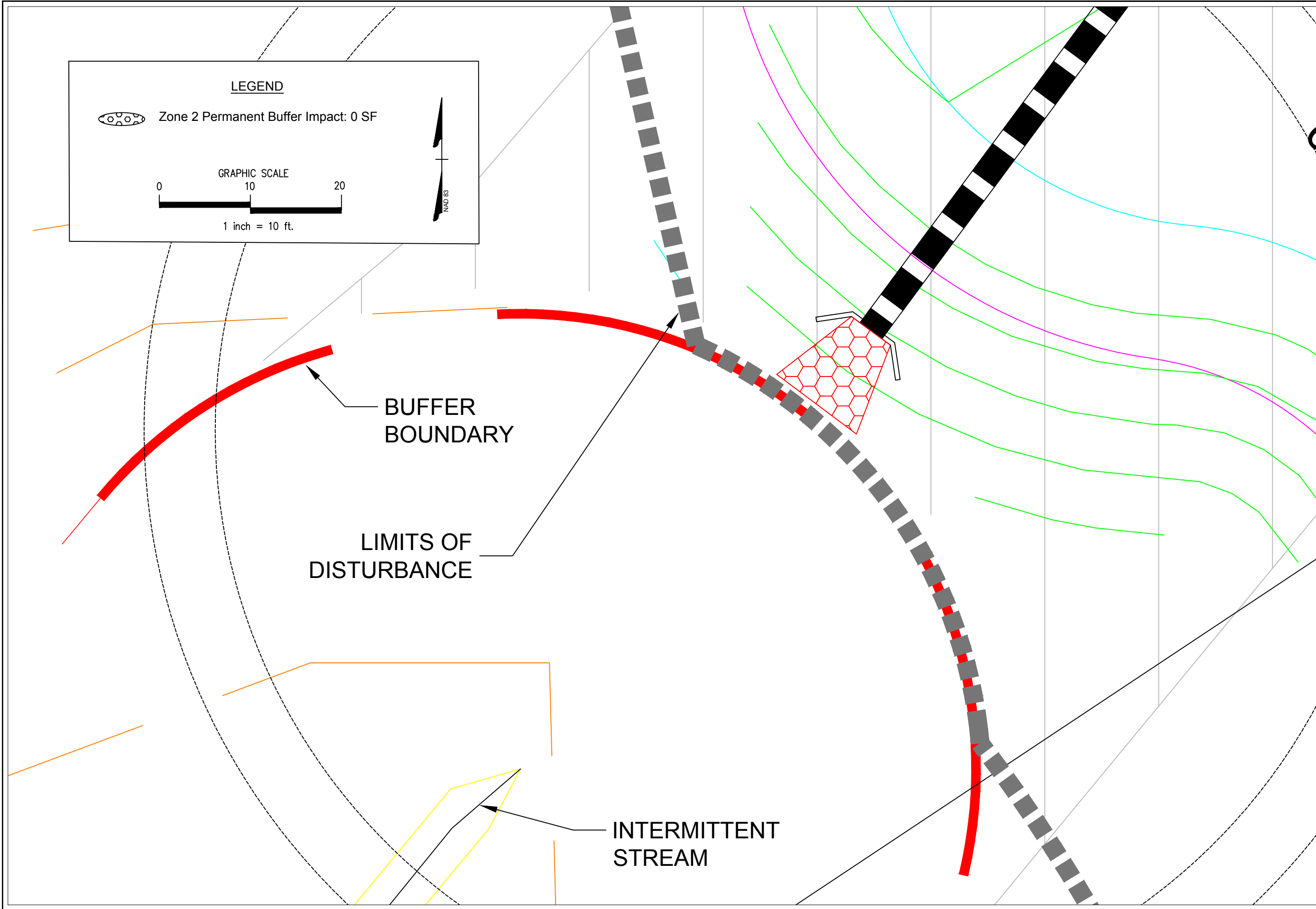
100' PERENNIAL STREAM BUFFER BOUNDARY

50' INTERMITTENT STREAM BUFFER BOUNDARY

INTERMITTENT STREAM

| | | | |
|--|------------------------------|--|------------------------------|
| SHEET NUMBER | | 2 of 3 | |
| PREPARED FOR : | | Chatham Capital, LLC 400 Market St., Ste 115 Chapel Hill, NC 27516 | |
| DATE | REVISION NO. | DATE | REVISION NO. |
| April 27, 2018 | Original Submittal | April 27, 2018 | Original Submittal |
| May 29, 2018 | Revision 1-Response Comments | May 29, 2018 | Revision 1-Response Comments |
| February 7, 2019 | Revision 2 | February 7, 2019 | Revision 2 |
| March 11, 2019 | Revision 3 | March 11, 2019 | Revision 3 |
| ----- | Master Set | ----- | Master Set |
| DATE : | | March 11, 2019 | |
| ENGINEER AND SOIL SCIENTIST CONTACT: | | SCOTT MITCHELL, PE, LSS | |
| SURVEYOR CONTACT: | | ----- | |
| MITCHELL ENVIRONMENTAL, PA C-2917 1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526 | | | |
| | | | |

Sunset Grove S/D
Chatham County, NC
Impact 1



MITCHELL ENVIRONMENTAL, PA
C-2917

1501 LAKESTONE VILLAGE LANE
SUITE 205
FUQUAY VARINA, NC 27526

| | |
|--------------------|------------------|
| REVISION NO. | DATE |
| Original Submittal | April 27, 2018 |
| Revision 1 | February 7, 2019 |
| Revision 2 | March 11, 2019 |
| Revision 3 | ----- |
| Master Set | ----- |

PREPARED FOR : Chatham Capital, LLC
400 Market St., Ste 115
Chapel Hill, NC 27516

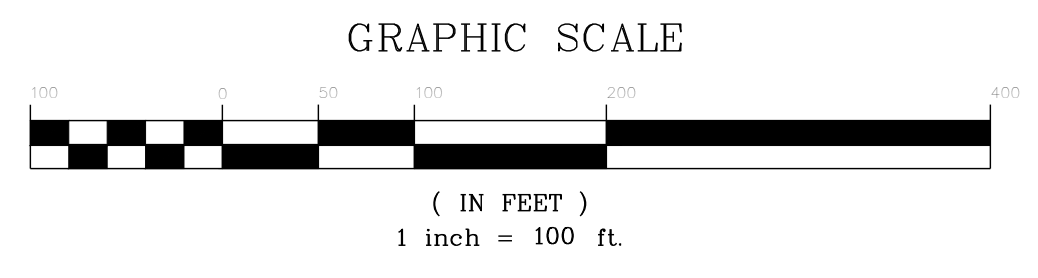
DATE : March 11, 2019

ENGINEER AND SOIL SCIENTIST CONTACT:
SCOTT MITCHELL, PE, LSS

SURVEYOR CONTACT:

SHEET NUMBER
3 of 3

Sunset Grove S/D
Chatham County, NC
Impact 2 (Eliminated)



- NOTES**
1. ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH ALL CHATHAM COUNTY AND NCDOT STANDARDS AND SPECIFICATIONS.
 2. ALL STREETS SHOWN ON THESE PLANS SHALL HAVE THE FULL WIDTH OF THE RIGHT-OF-WAY CLEARED AND GRADED WITHIN 50 FEET OF ALL STREET INTERSECTIONS.
 3. BOUNDARY SURVEY PROVIDED BY CE GROUP, DATED FEBRUARY 2016.
 4. TOPOGRAPHIC MAPPING PROVIDED BY SULLIVAN SURVEYING, 1143 S EXECUTIVE CIRCLE, CARY, NC 27511 (919-469-4738), DATED FEBRUARY 2016 AND AUGMENTED BY CHATHAM COUNTY GIS. ALL BEARINGS ARE N: GRID BEARINGS, NAVD 88 DATUM UTILIZED. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES.
 5. ANY LOCATION OF LANDSCAPING WILL BE FIELD COORDINATED BY THE DEVELOPER TO ELIMINATE CONFLICTS.
 6. THE DEVELOPER WILL NOT INSTALL STREET LIGHTS.
 7. ALL NEW UTILITY LINES MUST BE UNDERGROUND.
 8. THE CONTRACTOR IS RESPONSIBLE FOR ANY CONFLICTS WITH EXISTING OR PROPOSED UTILITIES, TRAFFIC SIGNAL DEVICES, UTILITY POLES, STREET SIGNS, ETC.
 9. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS/HER ACTIVITIES. CALL UTILITY LOCATING SERVICE 72 HOURS PRIOR TO DIGGING AT 1-800-632-4949.
 10. ALL OPEN SPACE NOT OWNED WITHIN AN INDIVIDUAL LOT SHALL BE MAINTAINED BY THE SUBDIVISION HOMEOWNERS ASSOCIATION.
 11. THE MINIMUM CORNER CLEARANCE FROM THE CURB LINE OR EDGE OF PAVEMENT OF INTERSECTING STREETS SHALL BE AT LEAST TWENTY (20) FEET FROM THE POINT OF TANGENCY OF THE RADIUS CURVATURE, OR TWENTY (20) FEET FROM THE INTERSECTION OF RIGHT OF WAY LINES, WHICHEVER IS GREATER. THE RADIUS OF THE DRIVEWAY SHALL NOT ENDOACH ON THE MINIMUM CORNER CLEARANCE.
 12. WITHIN THE AREA OF A DEFINED SIGHT TRIANGLE, THE AREA SHALL BE CLEAR OF OBSTRUCTIONS GREATER THAN FORTY-EIGHT (48) INCHES IN HEIGHT AS MEASURED FROM THE SURFACE ELEVATION OF ADJACENT DRIVEWAY OR ROADWAY.
 13. PARKING REQUIRED BY DETACHED HOMESITES WILL BE PROVIDED IN THEIR GARAGES AND ON THEIR OWN DRIVEWAYS. ON-STREET PARKING AREAS ARE NOT SPECIFICALLY PROVIDED.
 14. CONTRACTOR IS RESPONSIBLE FOR LOCATION AND CONTINUAL SERVICE FOR ALL EXISTING SERVICES THAT ARE TO REMAIN ON THE PROPERTY.
 15. THE CONTRACTOR SHALL VERIFY CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES, PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 16. ANY STOCKPILE AREAS WILL BE WITHIN THE LIMITS OF DISTURBANCE AND WILL BE WRAPPED WITH SILT FENCE TO PREVENT EROSION.

EROSION CONTROL LEGEND

NOTE: NOT ALL ITEMS ARE SHOWN ON EACH PLAN

- LIMITS OF DISTURBANCE
- TEMPORARY DIVERSION DITCH, WI NAG DS75
- TREE PROTECTION FENCING
- SILT FENCE
- TEMPORARY INLET PROTECTION
- TEMPORARY WATTLE DITCH PROTECTION
- TEMPORARY SEDIMENT BASIN
- RIP-RAP OUTLET PROTECTION
- CONSTRUCTION ENTRANCE & WASHOUT

DITCH LINING KEY

- NORTH AMERICAN GREEN DS75 (NAG DS75)

- GRADING/EROSION NOTES**
1. REFER TO ROADWAY PLANS/PROFILES FOR DETAILED GRADING AND UTILITY INFORMATION.
 2. REFER TO ROADWAY PLANS AT LARGER SCALE (C-50 THROUGH C-55) FOR DETAILED EROSION CONTROL INFORMATION.
 3. LARGER SCALE TEMPORARY PUMP AROUND FOR STREAM CROSSING SHOWN ON SHEET C-50.
 4. THERE ARE NO STOCKPILE LOCATIONS ON THE PLANS OTHER THAN IN FRONT YARD SETBACK AREAS SHOWN AS DISTURBED.
 5. ADDITIONAL EROSION CONTROL MAY BE REQUIRED BY THE COUNTY LEAD EROSION AND SEDIMENT CONTROL OFFICER DUE TO SITE CONDITIONS.

B & F
CONSULTING
2805 Tobemory Lane
Raleigh, NC 27606
Phone No. (919) 818-0180
License No. C-2149



REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

PROJECT INFORMATION

| | |
|------------------|-----------------|
| PROJECT MANAGER: | RJB |
| DRAWN BY: | AJF |
| APPROVED BY: | RJB |
| DRAWING NAME: | BASE-SUNSETGROV |

PROJECT NAME
SUNSET GROVE SUBDIVISION PHASE 2
CHATHAM COUNTY NORTH CAROLINA

DEVELOPER
CHATHAM CAPITAL LLC
400 MARKET STREET
CHAPEL HILL, NC 27516

SHEET NAME
INITIAL CLEARING AND GRUBBING PLAN PHASE 2

DRAWING SCALE
1"=100'

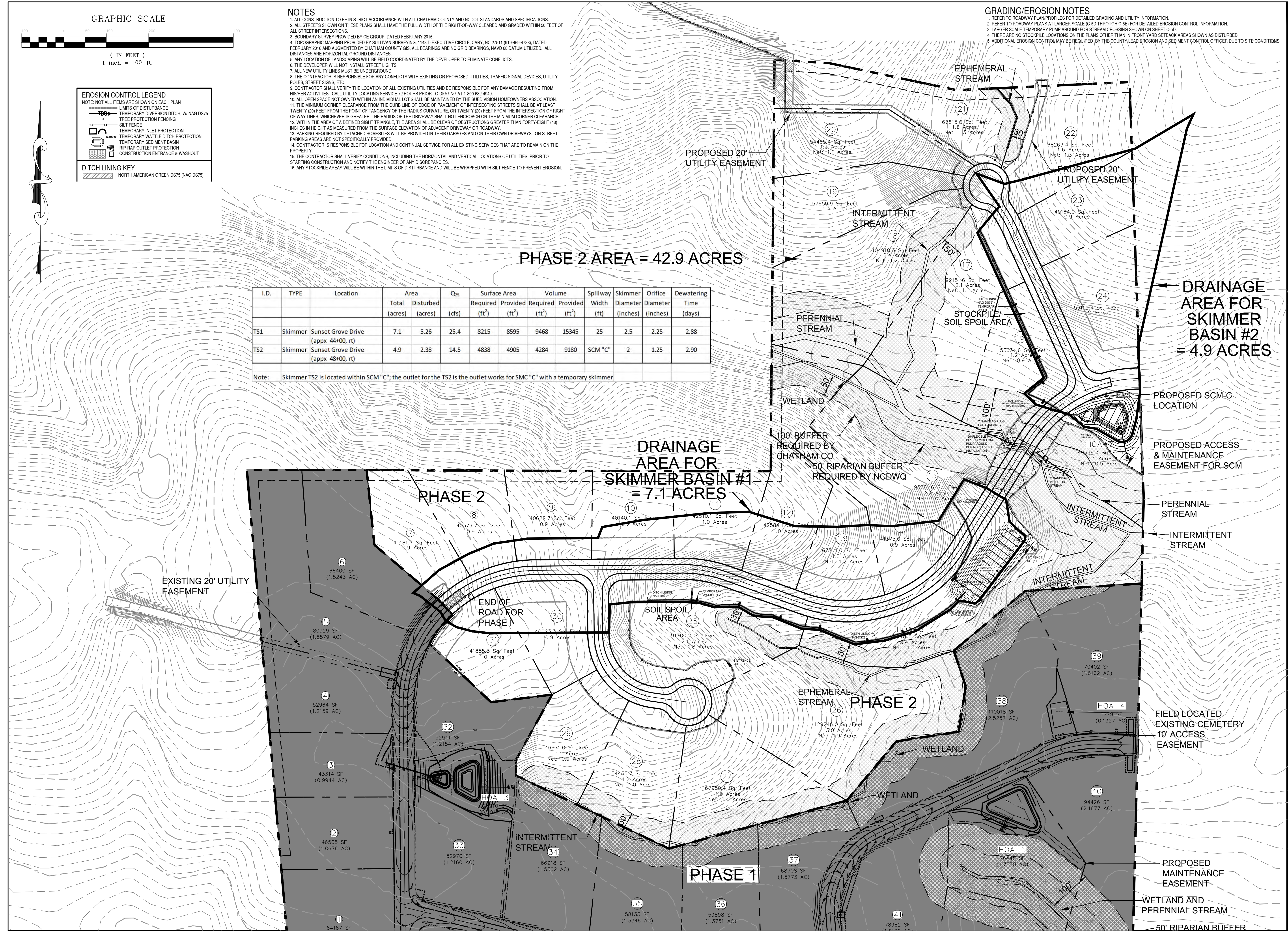
PLAN SET
CONSTRUCTION DRAWINGS

DATE
3-8-2019

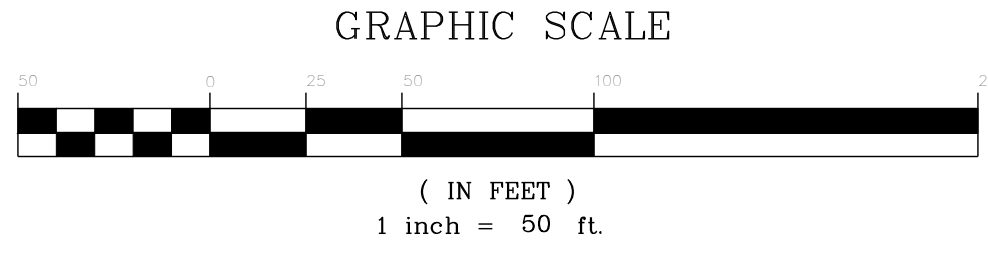
SHEET NUMBER
C-5

| I.D. | TYPE | Location | Area | | Q ₂₅ | Surface Area | | Volume | | Spillway Width (ft) | Skimmer Diameter (inches) | Orifice Diameter (inches) | Dewatering Time (days) |
|------|---------|-------------------------------------|---------------|-------------------|-----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|---------------------------|---------------------------|------------------------|
| | | | Total (acres) | Disturbed (acres) | | Required (ft ²) | Provided (ft ²) | Required (ft ³) | Provided (ft ³) | | | | |
| TS1 | Skimmer | Sunset Grove Drive (appx 44+00, rt) | 7.1 | 5.26 | 25.4 | 8215 | 8595 | 9468 | 15345 | 25 | 2.5 | 2.25 | 2.88 |
| TS2 | Skimmer | Sunset Grove Drive (appx 48+00, rt) | 4.9 | 2.38 | 14.5 | 4838 | 4905 | 4284 | 9180 | SCM "C" | 2 | 1.25 | 2.90 |

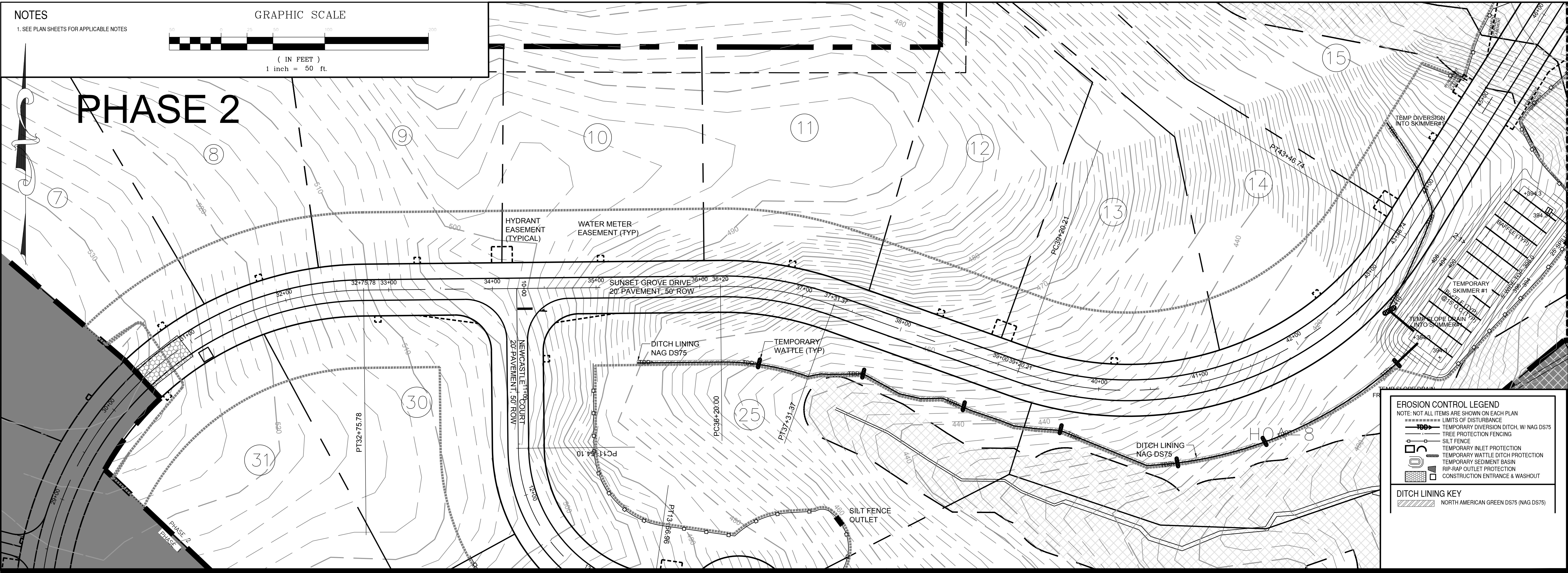
Note: Skimmer TS2 is located within SCM "C"; the outlet for the TS2 is the outlet works for SCM "C" with a temporary skimmer



NOTES
1. SEE PLAN SHEETS FOR APPLICABLE NOTES



PHASE 2



EROSION CONTROL LEGEND
NOTE: NOT ALL ITEMS ARE SHOWN ON EACH PLAN

- LIMITS OF DISTURBANCE
- TEMPORARY DIVERSION DITCH W/ NAG DS75
- TREE PROTECTION FENCING
- SILT FENCE
- TEMPORARY INLET PROTECTION
- TEMPORARY WATTLE DITCH PROTECTION
- TEMPORARY SEDIMENT BASIN
- RIP-RAP OUTLET PROTECTION
- CONSTRUCTION ENTRANCE & WASHOUT

DITCH LINING KEY
NORTH AMERICAN GREEN DS75 (NAG DS75)

B&F
CONSULTING
2805 Tobemary Lane
Raleigh, NC 27606
Phone No. (919) 618-0180
License No. C-2149



REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

PROJECT INFORMATION

| | |
|------------------|-----------------|
| PROJECT MANAGER: | RJB |
| DRAWN BY: | AJF |
| APPROVED BY: | RJB |
| DRAWING NAME: | BASE-SUNSETGROV |

PROJECT NAME
SUNSET GROVE SUBDIVISION PHASE 2
CHATHAM COUNTY NORTH CAROLINA

DEVELOPER
CHATHAM CAPITAL LLC
400 MARKET STREET
CHAPEL HILL, NC 27516

SHEET NAME
INITIAL CLEARING AND GRUBBING PLAN
SUNSET GROVE RD

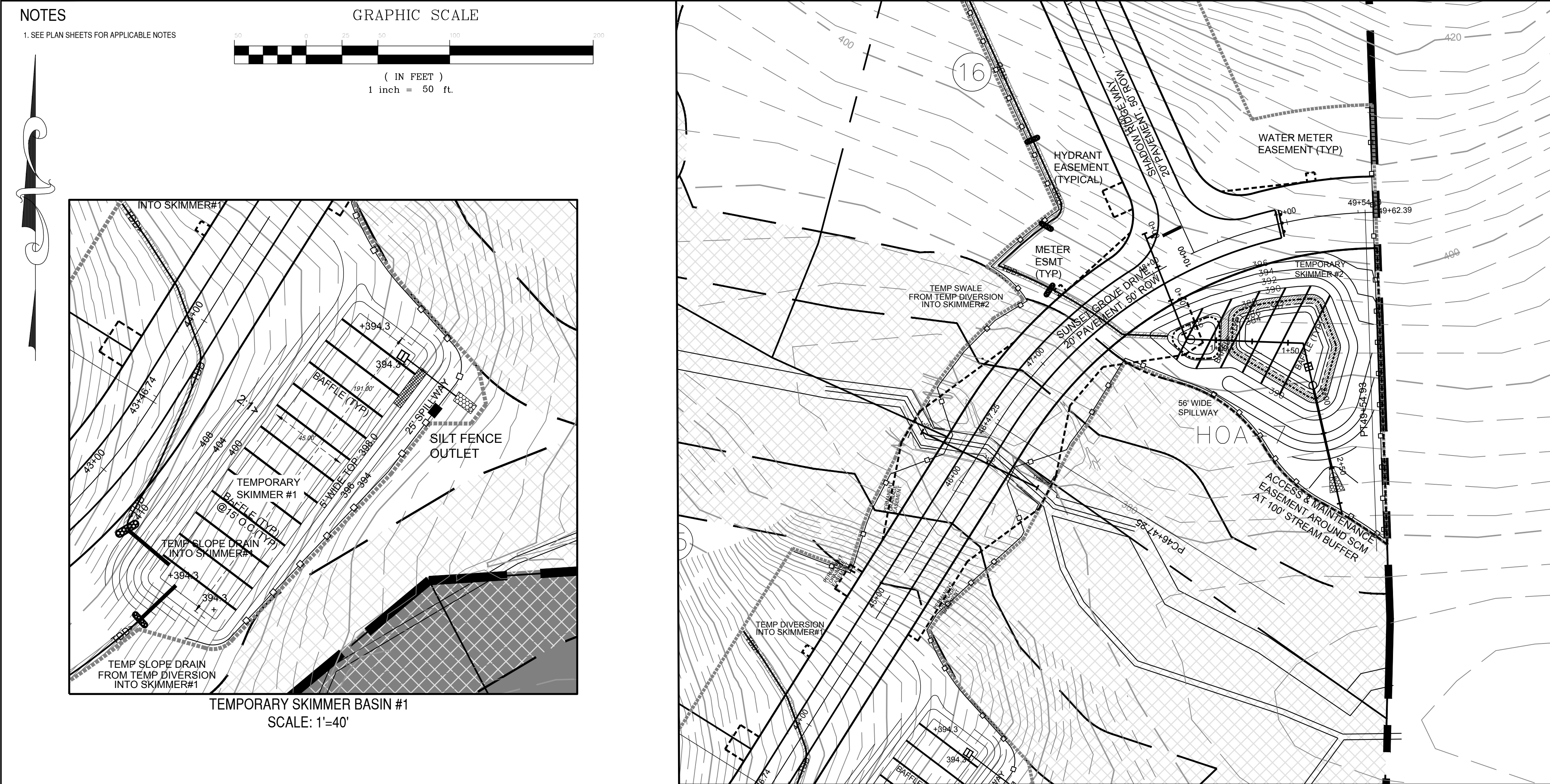
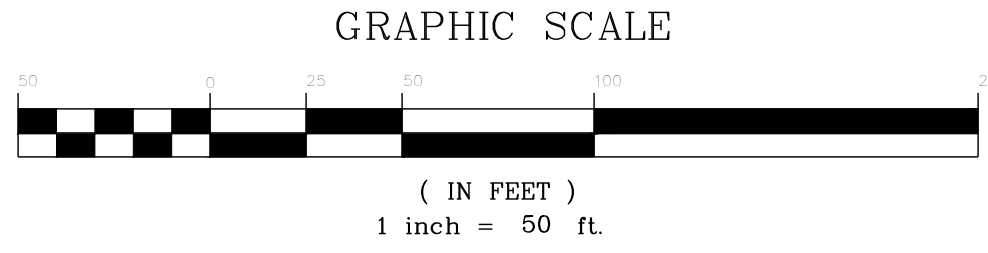
DRAWING SCALE
1"=50'

PLAN SET
CONSTRUCTION DRAWINGS

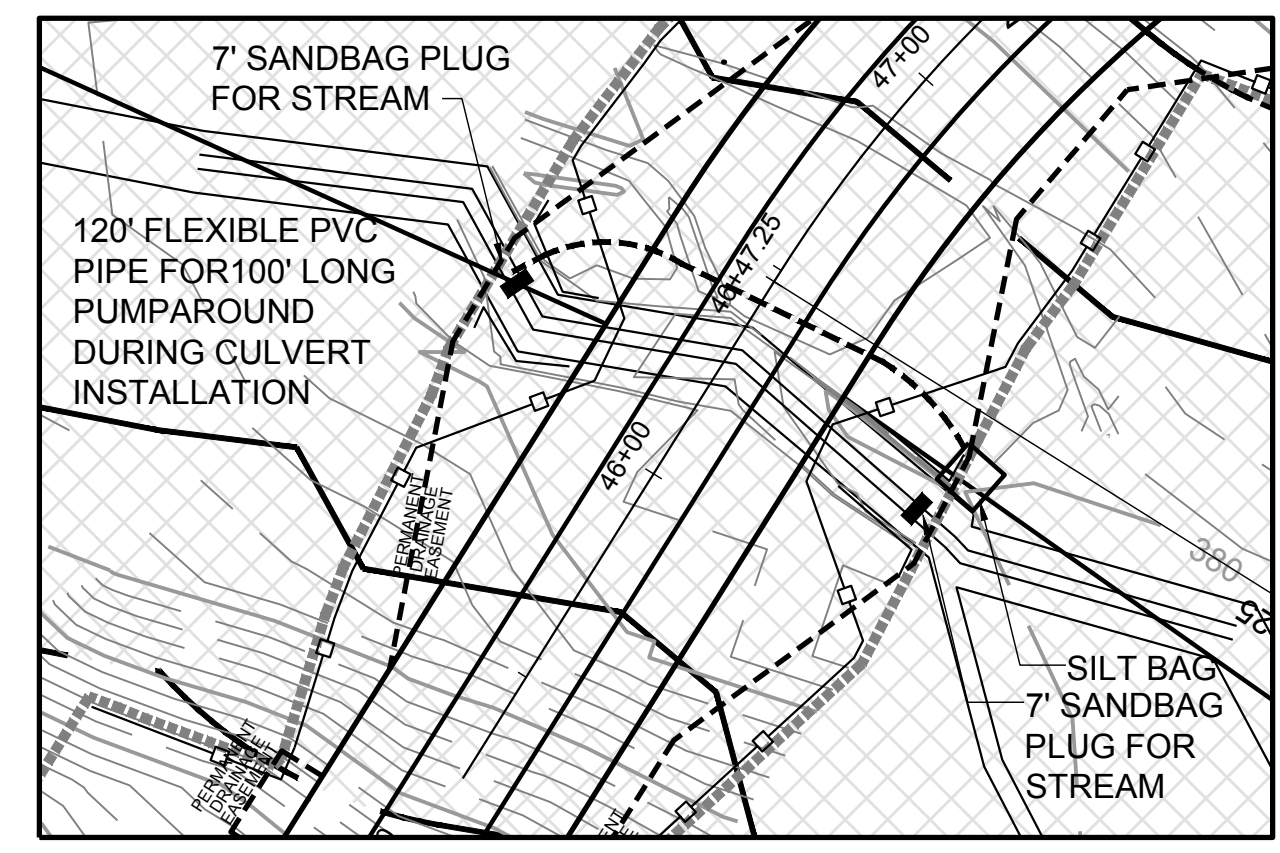
DATE
3-8-2019

SHEET NUMBER
C-5A

NOTES
1. SEE PLAN SHEETS FOR APPLICABLE NOTES



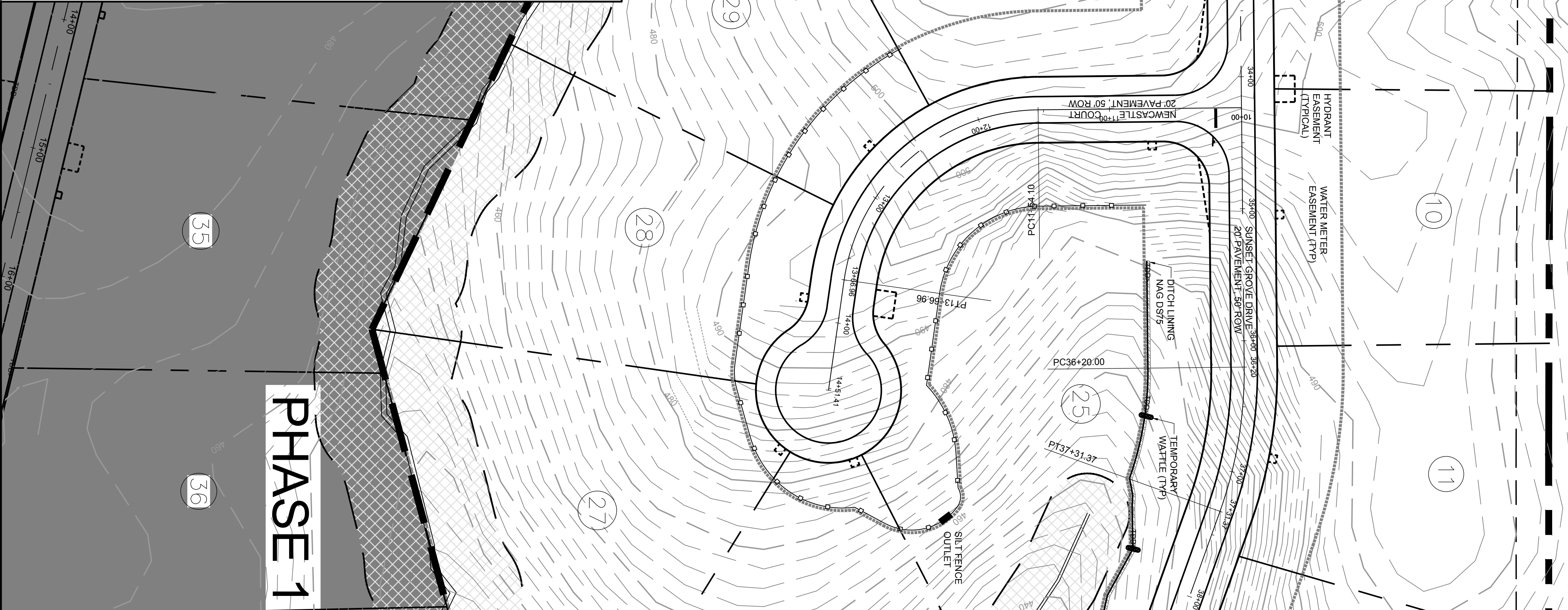
TEMPORARY SKIMMER BASIN #1
SCALE: 1"=40'



TEMPORARY STREAM ROUTING FOR CULVERT INSTALLATION
SEE CONSTRUCTION SEQUENCE, SHEET C-1 AND DETAILS, SHEET D-2 FOR INFORMATION
SCALE: 1"=40'

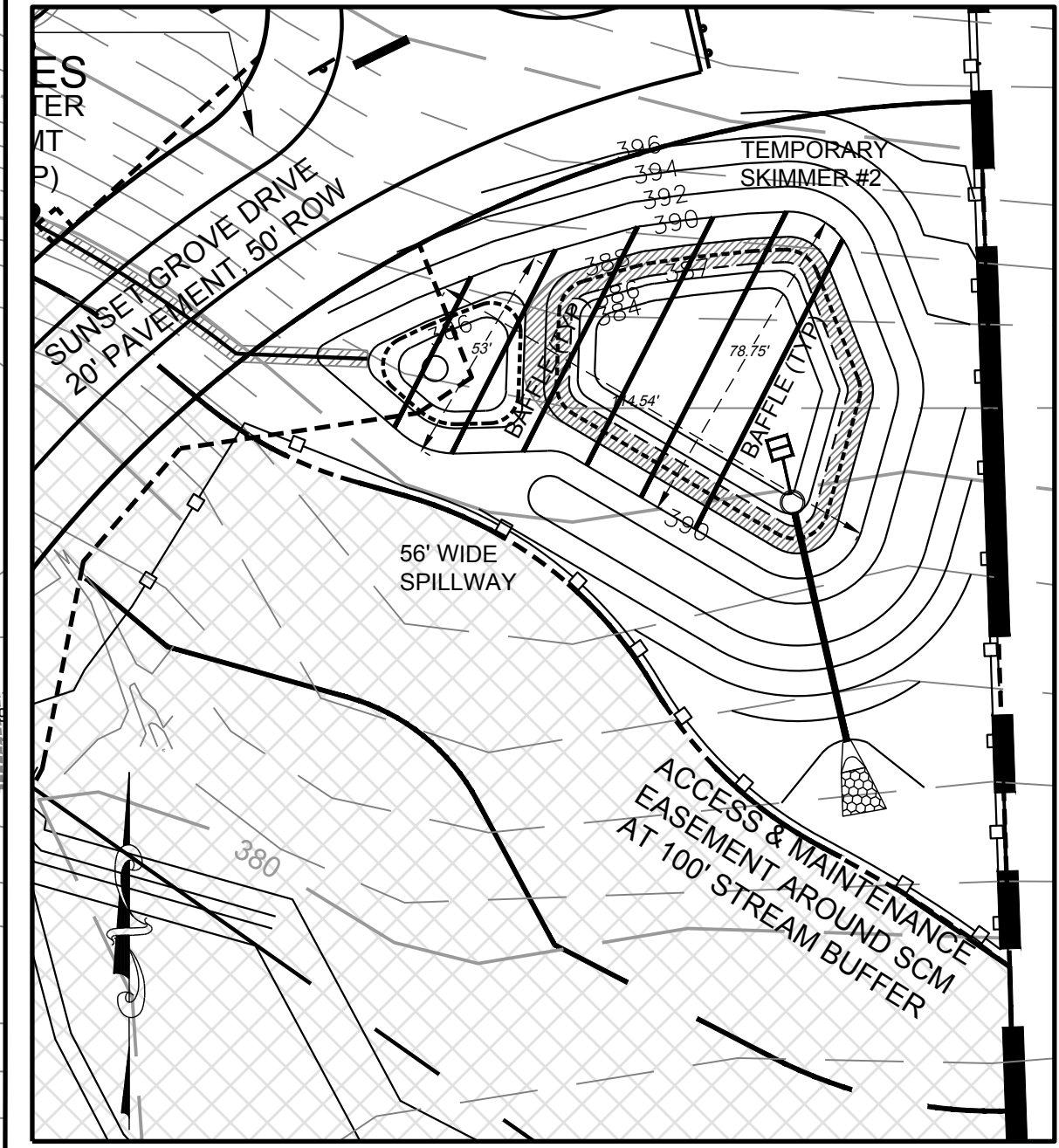
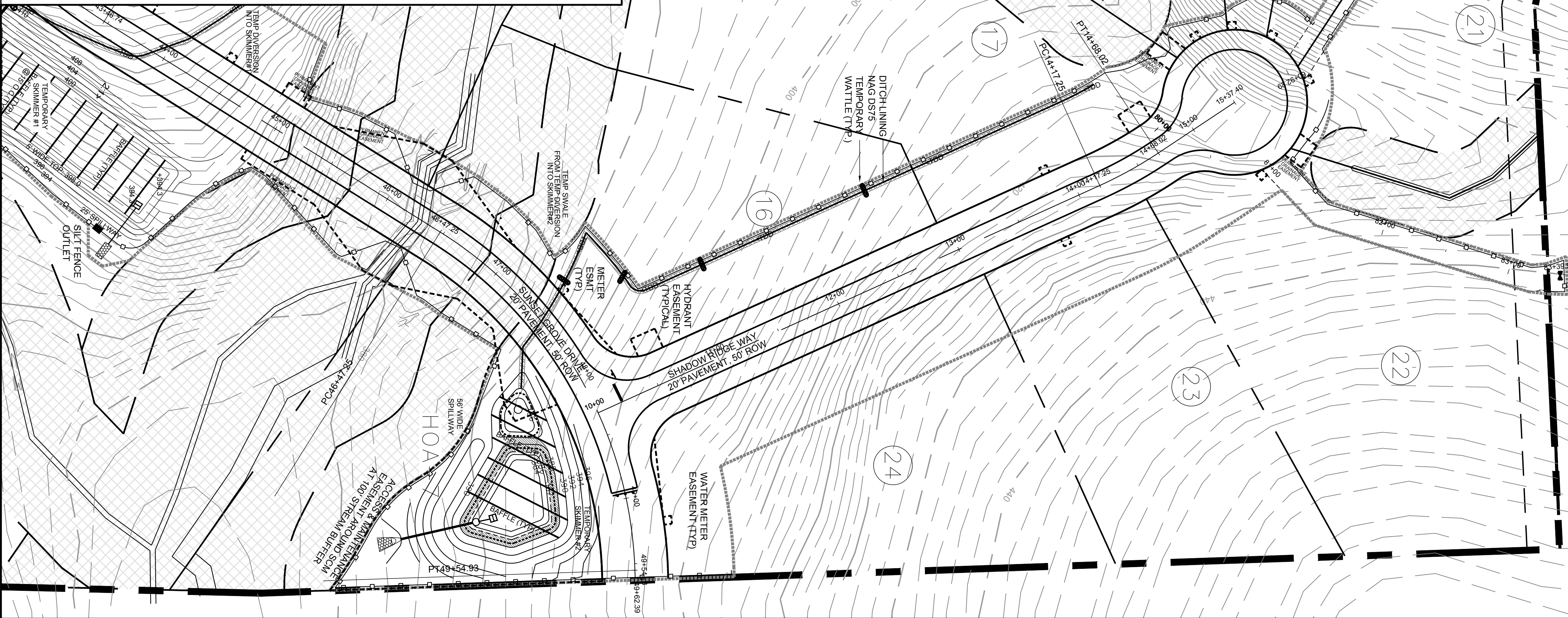
NOTES
1. SEE PLAN SHEETS FOR APPLICABLE NOTES

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.



NOTES
1. SEE PLAN SHEETS FOR APPLICABLE NOTES

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.



TEMPORARY SKIMMER BASIN #2
SCALE: 1"=40'

EROSION CONTROL LEGEND
NOTE: NOT ALL ITEMS ARE SHOWN ON EACH PLAN

- LIMITS OF DISTURBANCE
- TEMPORARY DIVERSION DITCH, WI NAG DS75
- TREE PROTECTION FENCING
- SILT FENCE
- TEMPORARY INLET PROTECTION
- TEMPORARY WATTLE DITCH PROTECTION
- TEMPORARY SEDIMENT BASIN
- RIP-RAP OUTLET PROTECTION
- CONSTRUCTION ENTRANCE & WASHOUT

DITCH LINING KEY
--- NORTH AMERICAN GREEN DS75 (NAG DS75)

B&F
CONSULTING
2805 Tobemory Lane
Raleigh, NC 27606
Phone No. (919) 818-0180
License No. C-2149



REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

PROJECT INFORMATION

| | |
|------------------|-----------------|
| PROJECT MANAGER: | RJB |
| DRAWN BY: | AJF |
| APPROVED BY: | RJB |
| DRAWING NAME: | BASE-SUNSETGROV |

PROJECT NAME
SUNSET GROVE SUBDIVISION PHASE 2
CHATHAM COUNTY NORTH CAROLINA

DEVELOPER
CHATHAM CAPITAL LLC
400 MARKET STREET
CHAPEL HILL, NC 27516

SHEET NAME
INITIAL CLEARING AND GRUBBING PLAN
NEWCASTLE COURT
SHADOW RIDGE WAY

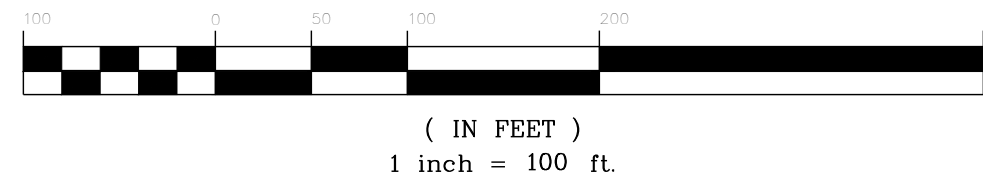
DRAWING SCALE
1"=50'

PLAN SET
CONSTRUCTION DRAWINGS

DATE
3-8-2019

SHEET NUMBER
C-5B

GRAPHIC SCALE



EROSION CONTROL LEGEND
NOTE: NOT ALL ITEMS ARE SHOWN ON EACH PLAN

| | |
|--|--|
| | LIMITS OF DISTURBANCE |
| | TEMPORARY DIVERSION DITCH, W/ NAG DS75 |
| | TREE PROTECTION FENCING |
| | SILT FENCE |
| | TEMPORARY INLET PROTECTION |
| | TEMPORARY WATTLE DITCH PROTECTION |
| | TEMPORARY SEDIMENT BASIN |
| | RIP-RAP OUTLET PROTECTION |
| | CONSTRUCTION ENTRANCE & WASHOUT |

DITCH LINING KEY

| | |
|--|--|
| | NORTH AMERICAN GREEN D575 (NAG D575) |
| | NORTH AMERICAN GREEN D5150 (NAG D5150) |
| | NORTH AMERICAN GREEN C125 (NAG C125) |
| | NORTH AMERICAN GREEN C350 (NAG C350) |
| | NORTH AMERICAN GREEN W3000 (NAG W3000) |

NOTES

1. ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH ALL CHATHAM COUNTY AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL STREETS SHOWN ON THESE PLANS SHALL HAVE THE FULL WIDTH OF THE RIGHT-OF-WAY CLEARED AND GRADED WITHIN 90 FEET OF ALL STREET INTERSECTIONS.
3. BOUNDARY SURVEY PROVIDED BY CE GROUP, DATED FEBRUARY 2016.
4. TOPOGRAPHIC MAPPING PROVIDED BY SULLIVAN SURVEYING, 1143 S EXECUTIVE CIRCLE, CARY, NC 27511 (919-469-4738), DATED FEBRUARY 2016 AND AUGMENTED BY CHATHAM COUNTY GIS. ALL BEARINGS ARE NC GRID BEARINGS. NAVD 88 DATUM UTILIZED. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES.
5. ANY LOCATION OF LANDSCAPING WILL BE FIELD COORDINATED BY THE DEVELOPER TO ELIMINATE CONFLICTS.
6. THE DEVELOPER WILL NOT INSTALL STREET LIGHTS.
7. ALL NEW UTILITY LINES MUST BE UNDERGROUND.
8. THE CONTRACTOR IS RESPONSIBLE FOR ANY CONFLICTS WITH EXISTING OR PROPOSED UTILITIES, TRAFFIC SIGNAL DEVICES, UTILITY POLES, STREET SIGNS, ETC.
9. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS/HER ACTIVITIES. CALL UTILITY LOCATING SERVICE 72 HOURS PRIOR TO DIGGING AT 1-800-632-4949.
10. ALL OPEN SPACE NOT OWNED WITHIN AN INDIVIDUAL LOT SHALL BE MAINTAINED BY THE SUBDIVISION HOMEOWNERS ASSOCIATION.
11. THE MINIMUM CORNER CLEARANCE FROM THE CURB LINE OR EDGE OF PAVEMENT OF INTERSECTING STREETS SHALL BE AT LEAST TWENTY (20) FEET FROM THE POINT OF TANGENCY OF THE RADIUS CURVATURE, OR TWENTY (20) FEET FROM THE INTERSECTION OF RIGHT OF WAY LINES, WHICHEVER IS GREATER. THE RADIUS OF THE DRIVEWAY SHALL NOT ENROACH ON THE MINIMUM CORNER CLEARANCE.
12. WITHIN THE AREA OF A DEFINED SIGHT TRIANGLE, THE AREA SHALL BE CLEAR OF OBSTRUCTIONS GREATER THAN FORTY-EIGHT (48) INCHES IN HEIGHT AS MEASURED FROM THE SURFACE ELEVATION OF ADJACENT DRIVEWAY OR ROADWAY.
13. PARKING REQUIRED BY DETACHED HOMESITES WILL BE PROVIDED IN THEIR GARAGES AND ON THEIR OWN DRIVEWAYS. ON-STREET PARKING AREAS ARE NOT SPECIFICALLY PROVIDED.
14. CONTRACTOR IS RESPONSIBLE FOR LOCATION AND CONTINUAL SERVICE FOR ALL EXISTING SERVICES THAT ARE TO REMAIN ON THE PROPERTY.
15. THE CONTRACTOR SHALL VERIFY CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES, PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
16. ANY STOCKPILE AREAS WILL BE WITHIN THE LIMITS OF DISTURBANCE AND WILL BE WRAPPED WITH SILT FENCE TO PREVENT EROSION.
17. DASHED LINES ADJACENT TO RIGHT OF WAY INDICATE HYDRANT, METER, WATER OR STORMWATER EASEMENTS.
18. SLOPES THAT ARE MORE STEEP THAN 5:1 ARE LABELED ON THE PLANS (BACK SIDE OF NCDOT ROADSIDE DITCHES AND CULDESACS THE GRADING) AND ARE TO REQUIRE MATTING. CONTRACTOR SHALL ALSO MAT SLOPES ADJACENT TO BUFFERS TO PREVENT EROSION.

GRADING/EROSION NOTES

1. REFER TO ROADWAY PLANS/PROFILES FOR DETAILED GRADING AND UTILITY INFORMATION.
2. REFER TO ROADWAY PLANS AT LARGER SCALE (C-50 THROUGH C-52) FOR DETAILED EROSION CONTROL INFORMATION.
3. LARGER SCALE TEMPORARY PUMP AROUND FOR STREAM CROSSING SHOWN ON SHEET C-50.
4. ADDITIONAL EROSION CONTROL MAY BE REQUIRED BY THE COUNTY LEAD EROSION AND SEDIMENT CONTROL OFFICER DUE TO SITE CONDITIONS.

B&F CONSULTING
2805 Tobemory Lane
Raleigh, NC 27606
Phone No. (919) 618-0180
License No. C-2149



REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

PROJECT INFORMATION

| | |
|------------------|-----------------|
| PROJECT MANAGER: | RJB |
| DRAWN BY: | AJF |
| APPROVED BY: | RJB |
| DRAWING NAME: | BASE-SUNSETGROV |

PROJECT NAME
SUNSET GROVE SUBDIVISION PHASE 2
CHATHAM COUNTY NORTH CAROLINA

DEVELOPER
CHATHAM CAPITAL LLC
400 MARKET STREET
CHAPEL HILL, NC 27516

SHEET NAME
EROSION CONTROL PLAN PHASE 2

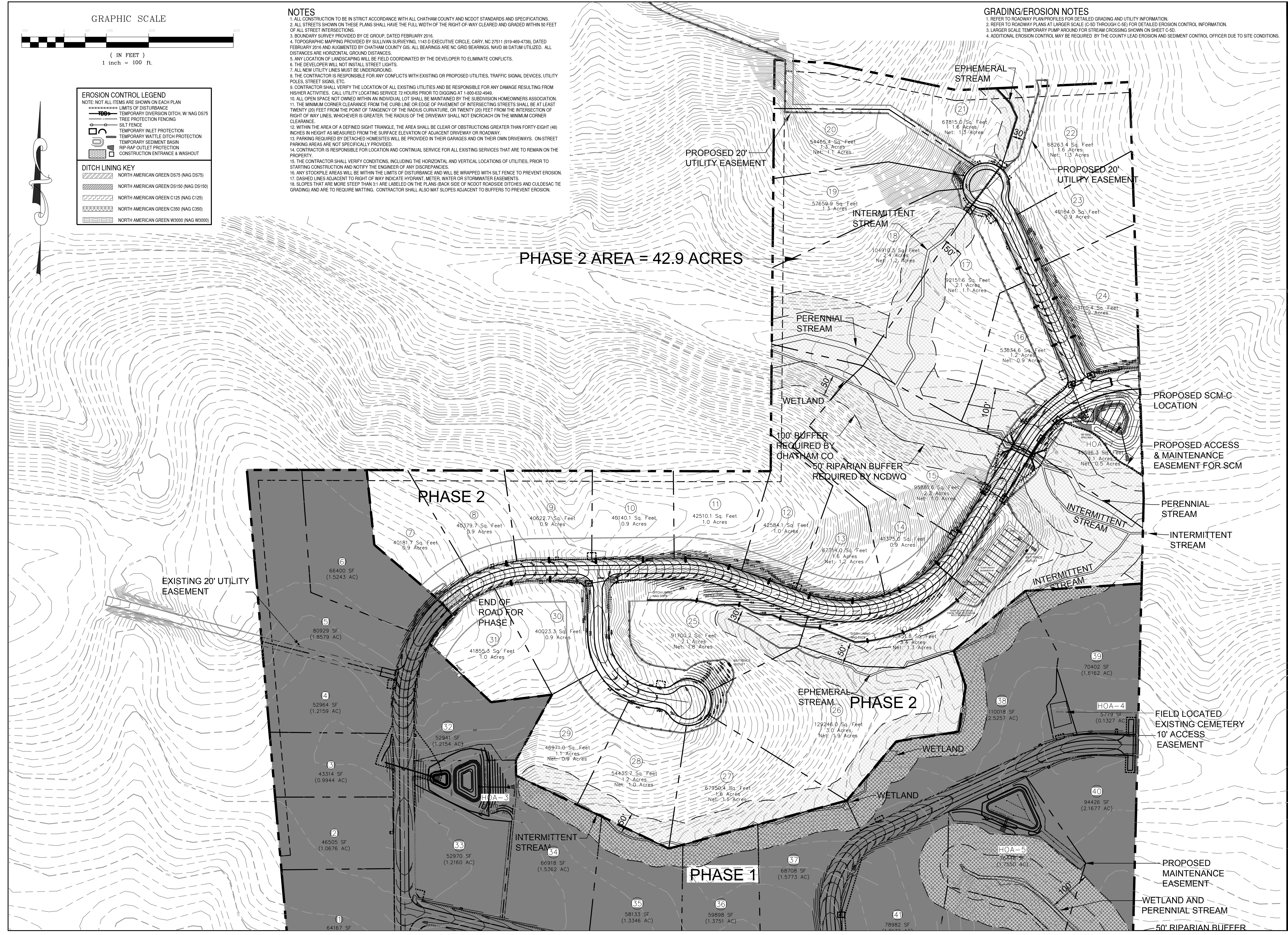
DRAWING SCALE
1"=100'

PLAN SET
CONSTRUCTION DRAWINGS

DATE
3-8-2019

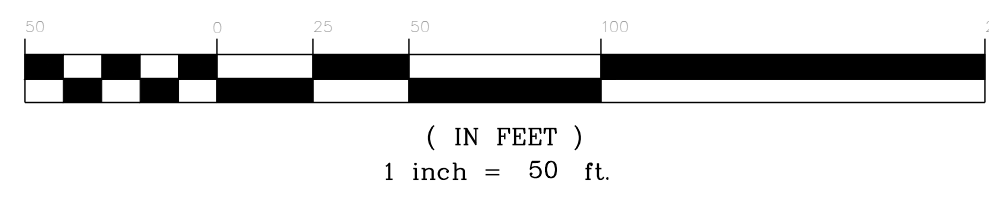
SHEET NUMBER
C-50C

PHASE 2 AREA = 42.9 ACRES

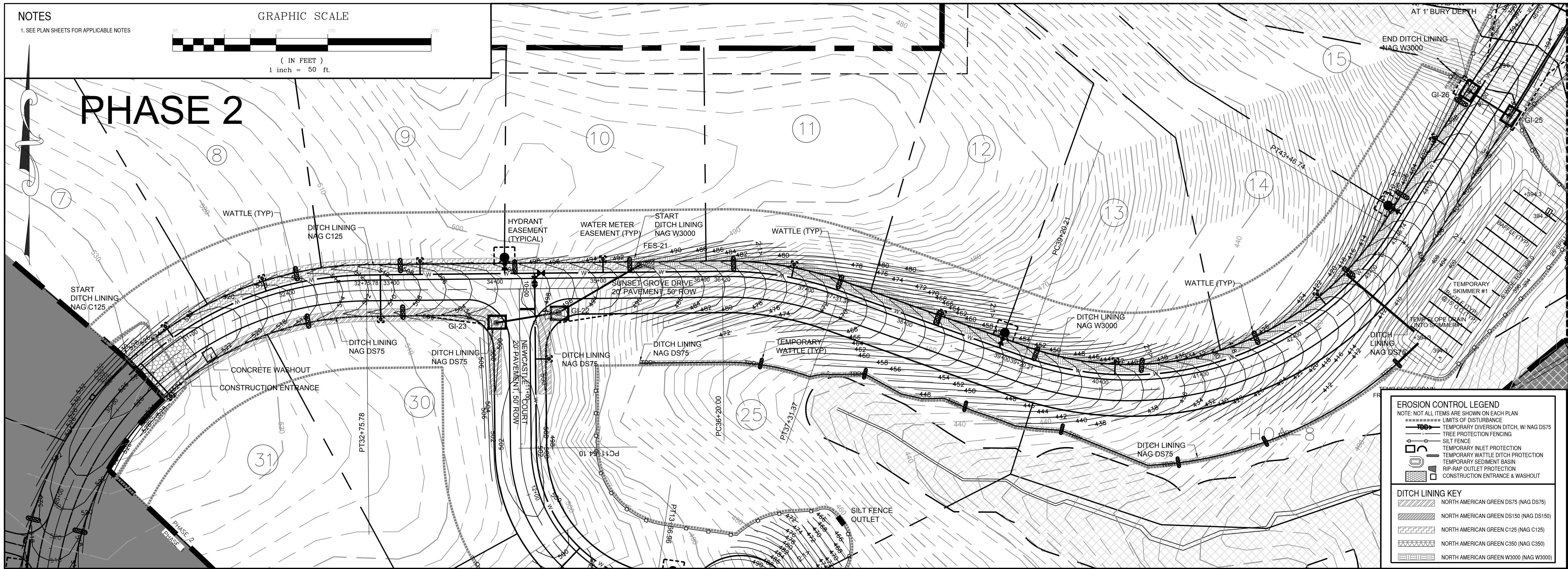


NOTES
1. SEE PLAN SHEETS FOR APPLICABLE NOTES

GRAPHIC SCALE



PHASE 2



EROSION CONTROL LEGEND
NOTE: NOT ALL ITEMS ARE SHOWN ON EACH PLAN
LIMITS OF DISTURBANCE

- TEMPORARY DIVERSION DITCH (W/ NAG DS75)
- TREE PROTECTION FENCING
- SILT FENCE
- TEMPORARY WATTLE PROTECTION
- TEMPORARY WATTLE DITCH PROTECTION
- TEMPORARY SEDIMENT BASIN
- RIP-RAP OUTLET PROTECTION
- CONSTRUCTION ENTRANCE & WASHOUT

DITCH LINING KEY

- NORTH AMERICAN GREEN DS75 (NAG DS75)
- NORTH AMERICAN GREEN DS150 (NAG DS150)
- NORTH AMERICAN GREEN C125 (NAG C125)
- NORTH AMERICAN GREEN C350 (NAG C350)
- NORTH AMERICAN GREEN W3000 (NAG W3000)

B&F
CONSULTING
2805 Tobemory Lane
Raleigh, NC 27606
Phone No. (919) 618-0180
License No. C-2149



REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

PROJECT INFORMATION

| | |
|------------------|-----------------|
| PROJECT MANAGER: | RJB |
| DRAWN BY: | AJF |
| APPROVED BY: | RJB |
| DRAWING NAME: | BASE-SUNSETGROV |

PROJECT NAME

SUNSET GROVE SUBDIVISION PHASE 2
CHATHAM COUNTY NORTH CAROLINA

DEVELOPER

CHATHAM CAPITAL LLC

400 MARKET STREET
CHAPEL HILL, NC 27516

SHEET NAME

EROSION CONTROL SUNSET GROVE RD

DRAWING SCALE

1"=50'

PLAN SET

CONSTRUCTION DRAWINGS

DATE

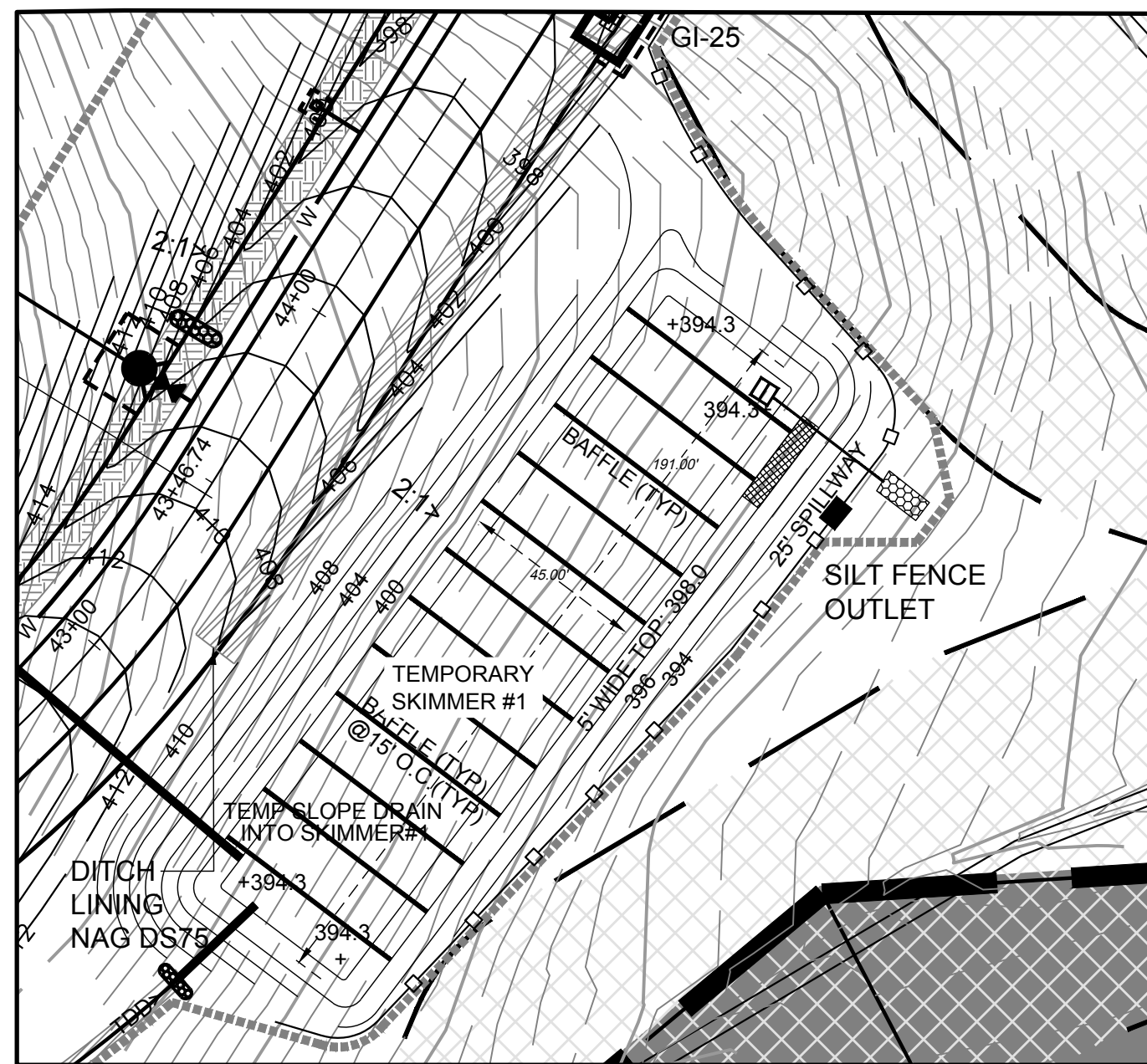
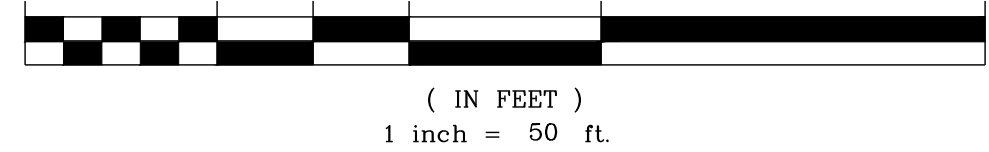
3-8-2019

SHEET NUMBER

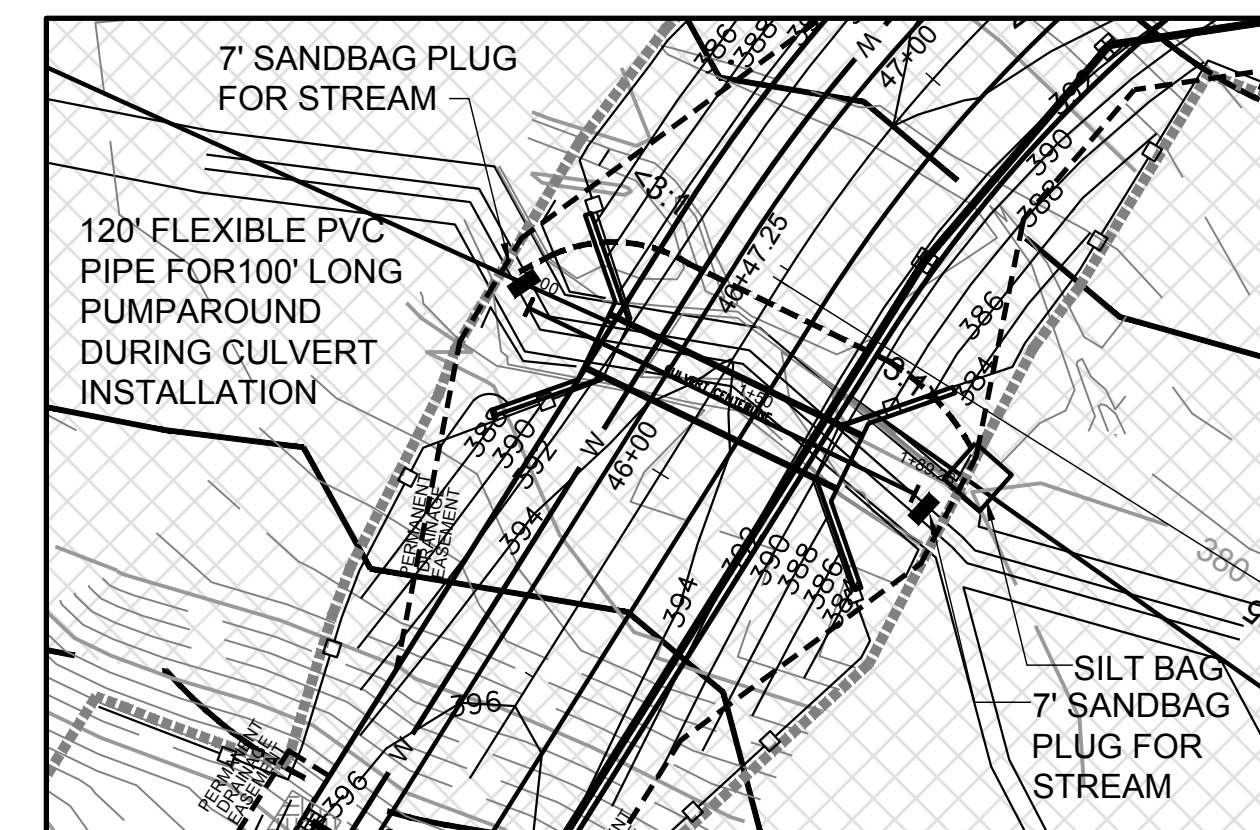
C-5D

NOTES
1. SEE PLAN SHEETS FOR APPLICABLE NOTES

GRAPHIC SCALE



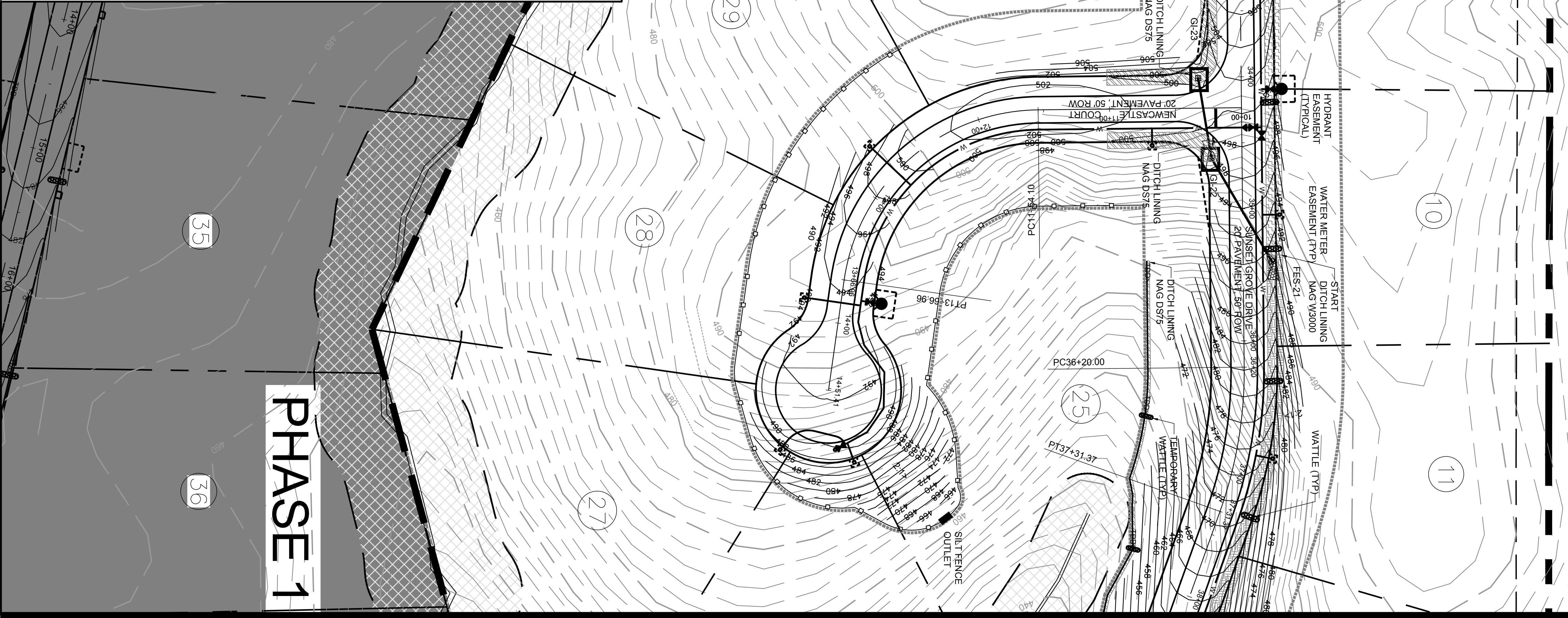
TEMPORARY SKIMMER BASIN #1
SCALE: 1"=40'



TEMPORARY STREAM ROUTING FOR CULVERT INSTALLATION
SEE CONSTRUCTION SEQUENCE, SHEET C-1 AND DETAILS, SHEET D-2 FOR INFORMATION
SCALE: 1"=40'

NOTES
1. SEE PLAN SHEETS FOR APPLICABLE NOTES

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.



EROSION CONTROL LEGEND
NOTE: NOT ALL ITEMS ARE SHOWN ON EACH PLAN

- LIMITS OF DISTURBANCE
- TEMPORARY DIVERSION DITCH, W/ NAG DS75
- TREE PROTECTION FENCING
- SILT FENCE
- TEMPORARY INLET PROTECTION
- TEMPORARY WATTLE DITCH PROTECTION
- TEMPORARY SEDIMENT BASIN
- RIP-RAP OUTLET PROTECTION
- CONSTRUCTION ENTRANCE & WASHOUT

DITCH LINING KEY

- NORTH AMERICAN GREEN DS75 (NAG DS75)
- NORTH AMERICAN GREEN DS150 (NAG DS150)
- NORTH AMERICAN GREEN C125 (NAG C125)
- NORTH AMERICAN GREEN C350 (NAG C350)
- NORTH AMERICAN GREEN W3000 (NAG W3000)

B&F
CONSULTING
2805 Tobemory Lane
Raleigh, NC 27606
Phone No. (919) 818-0180
License No. C-2149



REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

PROJECT INFORMATION

| | |
|------------------|-----------------|
| PROJECT MANAGER: | RJB |
| DRAWN BY: | AJF |
| APPROVED BY: | RJB |
| DRAWING NAME: | BASE-SUNSETGROV |

PROJECT NAME
SUNSET GROVE SUBDIVISION PHASE 2
CHATHAM COUNTY NORTH CAROLINA

DEVELOPER
CHATHAM CAPITAL LLC
400 MARKET STREET
CHAPEL HILL, NC 27516

SHEET NAME
EROSION CONTROL NEWCASTLE COURT SHADOW RIDGE WAY

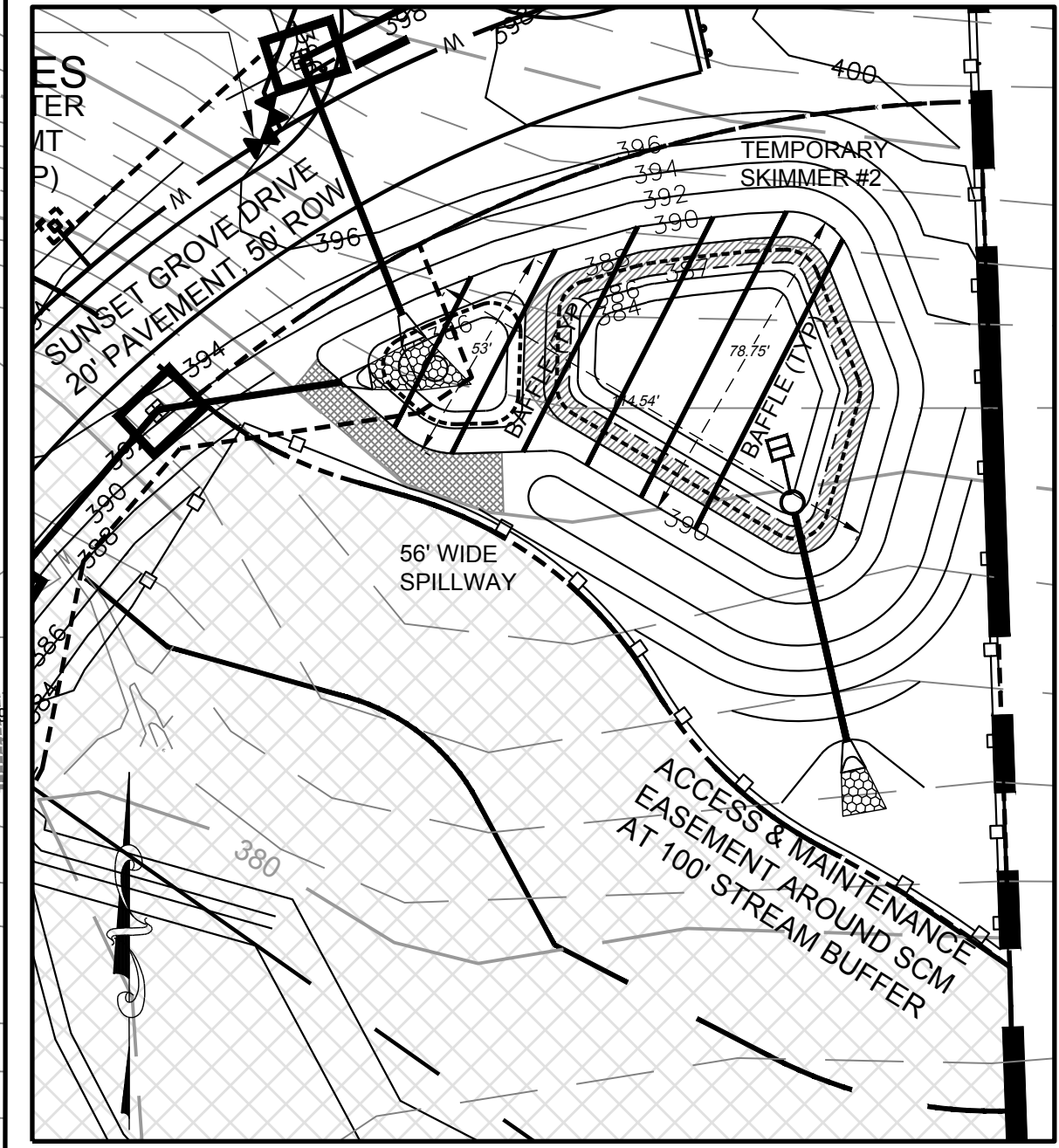
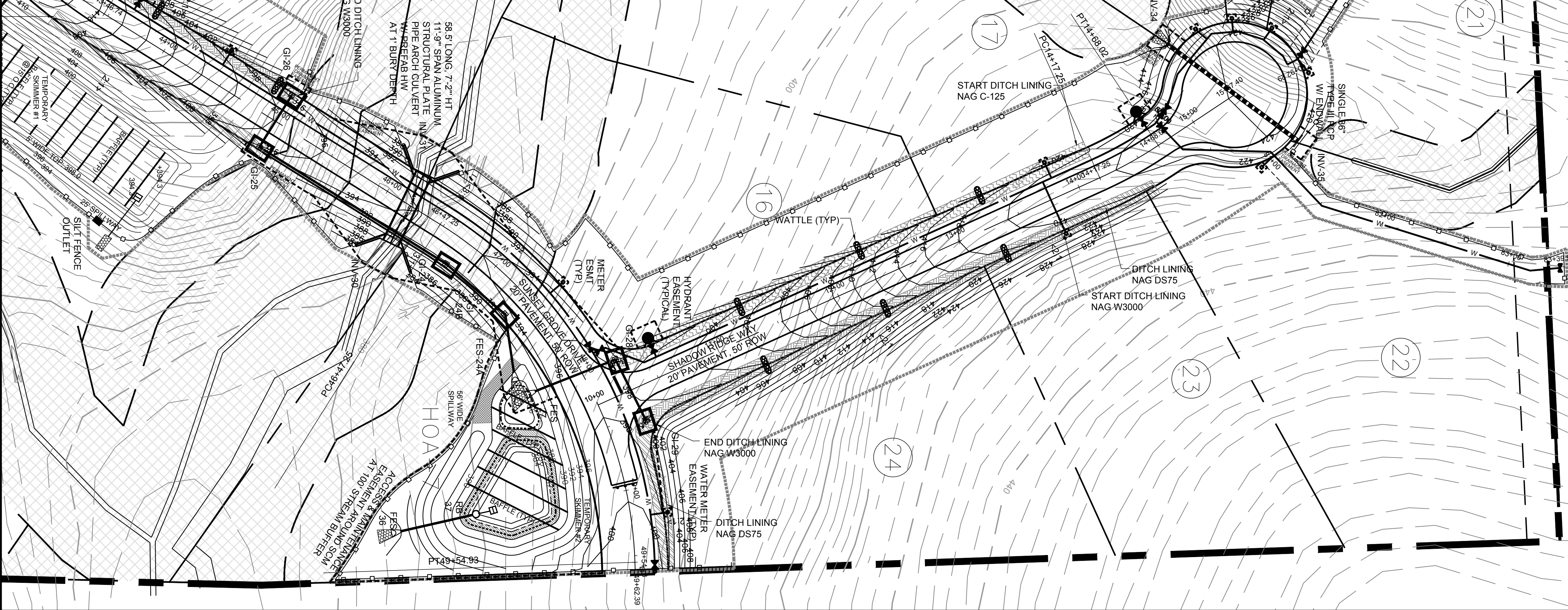
DRAWING SCALE
1"=50'
PLAN SET
CONSTRUCTION DRAWINGS

DATE
3-8-2019

SHEET NUMBER
C-5E

NOTES
1. SEE PLAN SHEETS FOR APPLICABLE NOTES

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.



TEMPORARY SKIMMER BASIN #2
SCALE: 1"=40'

**U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT**

Action Id. SAW-2015-02128 County: Chatham County U.S.G.S. Quad: Farrington

GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION

Permittee: Sarah O'Brien
Chatham Capital, LLC
Address: 400 Market Street, Ste 115
Chapel Hill, North Carolina 27516

Telephone Number: 919-933-4422

| | | | |
|------------------|--------------------------|--------------|--|
| Size (acres) | <u>116 (approximate)</u> | Nearest Town | <u>Pittsboro</u> |
| Nearest Waterway | <u>Ward Branch</u> | River Basin | <u>Cape Fear</u> |
| USGS HUC | <u>03030002</u> | Coordinates | Latitude: <u>35.757338</u> Longitude: <u>-79.080555</u> |

Location description: The 116 acre (approximate) site, identified as Sunset Grove, is located immediately northeast of the Mt. Gilead Church Road/Rabbit Run intersection and consists of Chatham County PINs #17441, 17440 and 17425.

Description of projects area and activity: This authorization is for temporary and permanent impacts to jurisdictional streams associated with the construction of a residential subdivision as follows: Crossing #2: Stream G (Impact #S1) 80-linear feet of permanent impact for the installation of one (1) 72-inch reinforced concrete pipe (RCP) and 30 linear feet of temporary impact associated with dewatering. Previous impacts to Stream F were for 92.4-linear feet of permanent impact for the installation of one (1) 66 lf RCP culvert and 15 linear feet of rip rap for a velocity dissipation pad and 20 linear feet of temporary impacts for dewatering. The impacts to Stream F were permitted under USACE Action ID SAW-2015-02128 and were verified on June 16, 2016. The Stream F crossing was determined to have minimal aquatic function and did not require compensatory mitigation (see attached plans).

Applicable Law: Section 404 (Clean Water Act, 33 USC 1344)
 Section 10 (Rivers and Harbors Act, 33 USC 403)

Authorization: Regional General Permit Number and/or Nationwide Permit Number: NWP 29 Residential Developments
SEE ATTACHED RGP or NWP GENERAL, REGIONAL AND/OR SPECIAL CONDITIONS

Your work is authorized by the above referenced permit provided it is accomplished in strict accordance with the attached conditions and your submitted application and attached information dated April 27, 2018. Any violation of the attached conditions or deviation from your submitted plans may subject the permittee to a stop work order, a restoration order, a Class I administrative penalty, and/or appropriate legal action.

This verification will remain valid until the expiration date identified below unless the nationwide and/or regional general permit authorization is modified, suspended or revoked. If, prior to the expiration date identified below, the nationwide and/or regional general permit authorization is reissued and/or modified, this verification will remain valid until the expiration date identified below, provided it complies with all requirements of the modified nationwide permit. If the nationwide and/or regional general permit authorization expires or is suspended, revoked, or is modified, such that the activity would no longer comply with the terms and conditions of the nationwide permit, activities which have commenced (i.e., are under construction) or are under contract to commence in reliance upon the nationwide and/or regional general permit, will remain authorized provided the activity is completed within twelve months of the date of the nationwide and/or regional general permit's expiration, modification or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend or revoke the authorization.

Activities subject to Section 404 (as indicated above) may also require an individual Section 401 Water Quality Certification. You should contact the NC Division of Water Resources (telephone 919-807-6300) to determine Section 401 requirements.

For activities occurring within the twenty coastal counties subject to regulation under the Coastal Area Management Act (CAMA), prior to beginning work you must contact the N.C. Division of Coastal Management in Morehead City, NC, at (252) 808-2808.

This Department of the Army verification does not relieve the permittee of the responsibility to obtain any other required Federal, State or local approvals/permits.

If there are any questions regarding this verification, any of the conditions of the Permit, or the Corps of Engineers regulatory program, please contact **Andrew Williams at (919) 554-4884 or Andrew.E.Williams2@usace.army.mil**.

Corps Regulatory Official: Andrew Williams

Digitally signed by WILLIAMS, ANDREW E. 1244561655
DN: cn=US, o=U.S. Government, ou=DoD, ou=PR, ou=USA,
c=WILLIAMS, ANDREW E. 1244561655
Date: 2018.06.12 11:09:29 -0400

Date: **June 12, 2018**

Expiration Date of Verification: **March 18, 2022**

A. Determination of Jurisdiction:

1. There are waters, including wetlands, on the above described project area that may be subject to Section 404 of the Clean Water Act (CWA) (33 USC § 1344) and/or Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403). This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331). However, you may request an approved JD, which is an appealable action, by contacting the Corps district for further instruction. Please note, if work is authorized by either a general or nationwide permit, and you wish to request an appeal of an approved JD, the appeal must be received by the Corps and the appeal process concluded prior to the commencement of any work in waters of the United States and prior to any work that could alter the hydrology of waters of the United States.
2. There are Navigable Waters of the United States within the above described project area subject to the permit requirements of Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403) and Section 404 of the Clean Water Act (CWA) (33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
3. There are waters, including wetlands, within the above described project area that are subject to the permit requirements of Section 404 of the Clean Water Act (CWA) (33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
4. A jurisdiction determination was not completed with this request. Therefore, this is not an appealable action. However, you may request an approved JD, which is an appealable action, by contacting the Corps for further instruction.
5. The aquatic resources within the above described project area have been identified under a previous action. Please reference the preliminary jurisdictional determination issued 12/7/2015. Action ID: **SAW-2015-02128**.

B. Basis For Jurisdictional Determination: N/A. An Approved JD has not been completed.

C. Remarks: None

D. Attention USDA Program Participants

This delineation/determination has been conducted to identify the limits of Corps' Clean Water Act jurisdiction for the particular site identified in this request. The delineation/determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA Program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

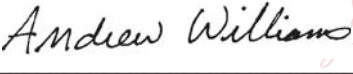
E. Appeals Information for Approved Jurisdiction Determinations (as indicated in A2 and A3 above).

If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the following address:

US Army Corps of Engineers
South Atlantic Division
Attn: Jason Steele, Review Officer
60 Forsyth Street SW, Room 10M15
Atlanta, Georgia 30303-8801
Phone: (404) 562-5137

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by **Not Applicable**.

It is not necessary to submit an RFA form to the Division Office if you do not object to the determination in this correspondence.

Corps Regulatory Official:  Digitally signed by WILLIAMS.ANDREW.E.1244561655
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI,
ou=USA, cn=WILLIAMS.ANDREW.E.1244561655
Date: 2018.06.12 11:08:58 -04'00'

Andrew Williams

Date of JD: **December 7, 2015**

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete our Customer Satisfaction Survey, located online at http://corpsmapu.usace.army.mil/cm_apex/f?p=136:4:0.

Copy furnished (via email):

Scott Mitchell, PE, LSS
Mitchell Environmental, PA
1501 Lakestone Village Lane
Suite 205
Fuquay-Varina, NC 27526

Stephanie Goss
North Carolina Department of Environmental Quality
Water Resources Water Quality Regional Operations Section
1628 Mail Service Center
Raleigh, NC 27699-1628

Action ID Number: SAW-2015-02128

County: Chatham County

Permittee: Sarah O'Brien
Chatham Capital, LLC

Project Name: Chatham Capital, LLC/Sunset Grove

Date Verification Issued: June 12, 2018

Project Manager: Andrew Williams

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

US ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT
Attn: Andrew Williams
3331 Heritage Trade Drive, Suite 105
Wake Forest, North Carolina 27587

Please note that your permitted activity is subject to a compliance inspection by a U. S. Army Corps of Engineers representative. Failure to comply with any terms or conditions of this authorization may result in the Corps suspending, modifying or revoking the authorization and/or issuing a Class I administrative penalty, or initiating other appropriate legal action.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and condition of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: **Sarah O'Brien Chatham Capital, LLC**

File Number: **SAW-2015-02128**

Date: **June 12, 2018**

| Attached is: | See Section below |
|---|-------------------|
| <input type="checkbox"/> INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission) | A |
| <input type="checkbox"/> PROFFERED PERMIT (Standard Permit or Letter of permission) | B |
| <input type="checkbox"/> PERMIT DENIAL | C |
| <input type="checkbox"/> APPROVED JURISDICTIONAL DETERMINATION | D |
| <input type="checkbox"/> PRELIMINARY JURISDICTIONAL DETERMINATION | E |

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits.aspx> or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:
**District Engineer, Wilmington Regulatory Division,
Attn: Andrew Williams
69 Darlington Avenue
Wilmington, North Carolina 28403**

If you only have questions regarding the appeal process you may also contact:
Mr. Jason Steele, Administrative Appeal Review Officer
CESAD-PDO
U.S. Army Corps of Engineers, South Atlantic Division
60 Forsyth Street, Room 10M15
Atlanta, Georgia 30303-8801
Phone: (404) 562-5137

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

| | | |
|----------------------------------|-------|-------------------|
| _____ | Date: | Telephone number: |
| Signature of appellant or agent. | | |

For Permit denials, Proffered Permits and approved Jurisdictional Determinations send this form to:

**Division Engineer, Commander, U.S. Army Engineer Division, South Atlantic, Attn: Mr. Jason Steele, Administrative Appeal Officer, CESAD-PDO, 60 Forsyth Street, Room 10M15, Atlanta, Georgia 30303-8801
Phone: (404) 562-5137**

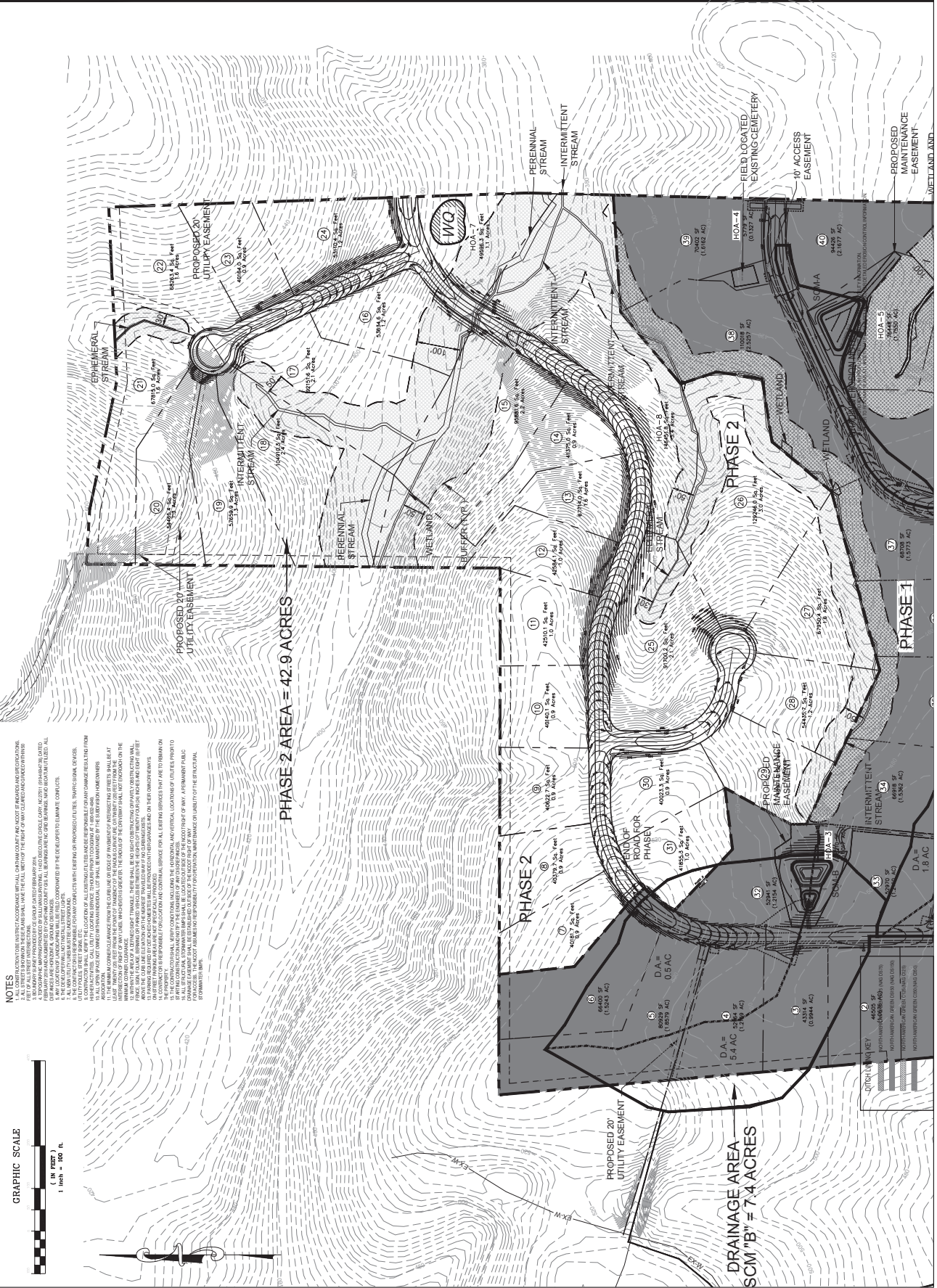
| REV. NO. | DATE | DESCRIPTION |
|----------|------|-------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| PROJECT INFORMATION |
|----------------------|
| PROJECT MANAGER: RLB |
| DRAWN BY: AP |
| CHECKED BY: JLP |
| DATE: 08/21/2018 |

| PROJECT NAME |
|---|
| SUNSET GROVE SUBDIVISION PHASE 2 |
| CHATHAM COUNTY NORTH CAROLINA |
| DEVELOPER: CHATHAM CAPITAL LLC |
| 400 MARKET STREET CHAPEL HILL, NC 27516 |

| SHEET NAME |
|---------------------------------|
| GRADING PLAN PHASE 1 |
| DRAWING SCALE: 1" = 100' |
| PLAN SET: CONSTRUCTION DRAWINGS |
| DATE: 4-18-2018 |
| SHEET NUMBER: C-4 |

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION



NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
2. THE LOCATION OF ALL DRAINAGE STRUCTURES SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM EXCESSIVE FLOODING.
3. ALL DRAINAGE STRUCTURES SHALL BE DESIGNED TO MAINTAIN THE PROPOSED FLOOD PROTECTION LEVELS AND TO MAINTAIN THE PROPOSED FLOOD PROTECTION LEVELS.
4. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
5. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
6. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
7. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
8. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
9. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
10. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
11. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
12. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
13. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
14. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
15. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
16. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
17. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
18. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
19. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
20. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
21. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
22. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
23. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
24. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
25. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
26. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
27. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
28. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
29. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
30. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
31. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
32. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
33. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
34. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
35. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
36. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.
37. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NORTH CAROLINA ORDINANCES AND REGULATIONS.

| REV. NO. | DATE | DESCRIPTION |
|----------|------|-------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| PROJECT INFORMATION | |
|---------------------|--------------------|
| PROJECT MANAGER: | LAB |
| DRAWN BY: | AF |
| APPROVED BY: | SLP |
| DRAWING NAME: | ROSE (SUBDIVISION) |

PROJECT NAME
SUNSET GROVE SUBDIVISION PHASE 2
CHATHAM COUNTY NORTH CAROLINA

DEVELOPER
CHATHAM CAPITAL LLC

400 MARKET STREET
CHAPEL HILL, NC 27516

SHEET NAME
EROSION CONTROL PLAN PHASE 1

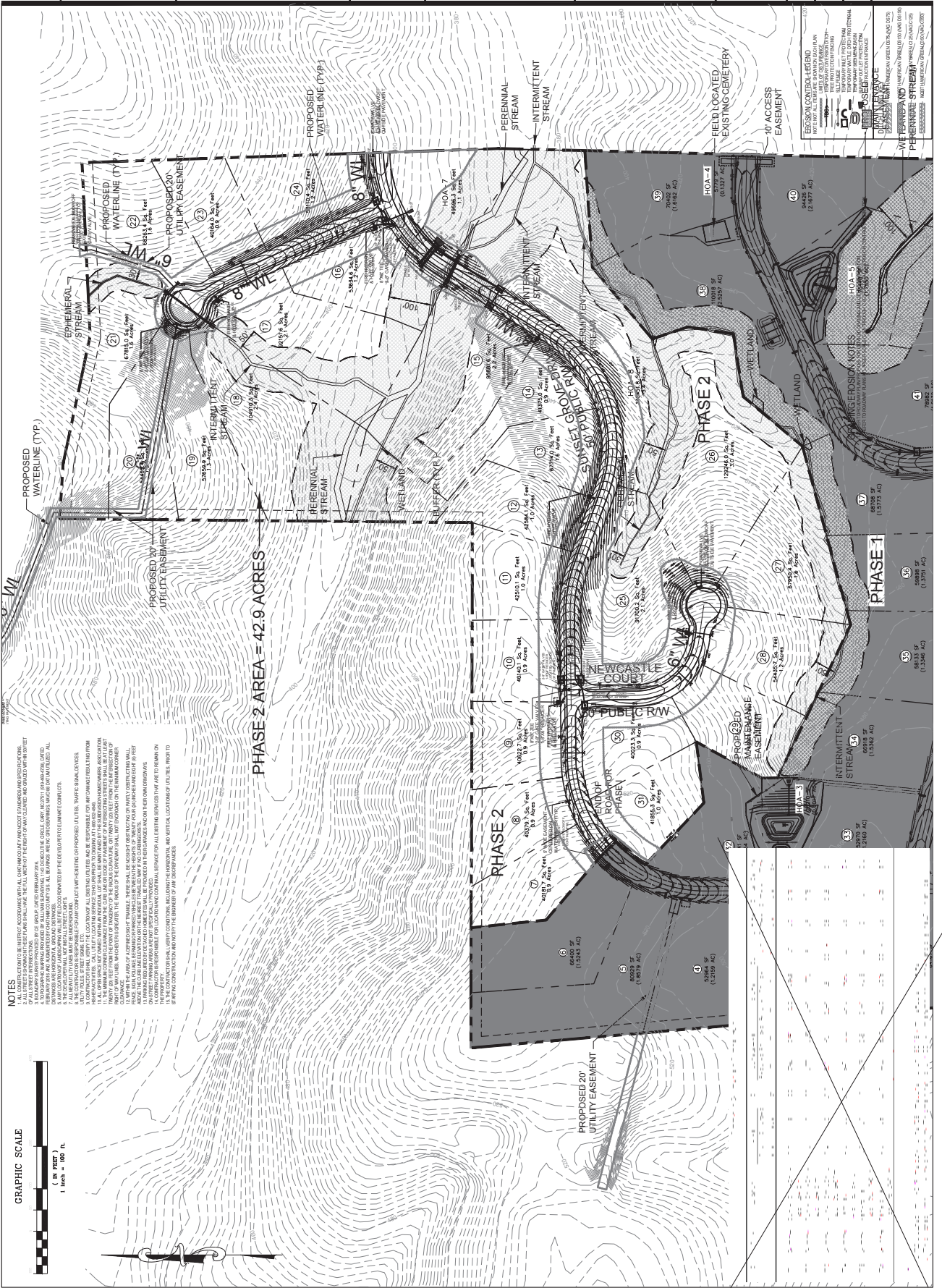
DRAWING SCALE
1" = 100'

PLAN SET
CONSTRUCTION DRAWINGS

DATE
4-18-2018

SHEET NUMBER
C-5

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION



NOTES

- ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH ALL CHATHAM COUNTY ADVANCED EROSION CONTROL SPECIFICATIONS AND ALL CITY STREET SPECIFICATIONS.
- PERMANENT EROSION CONTROL MEASURES SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY WITHIN 30 DAYS OF THE COMPLETION OF ALL STREET IMPROVEMENTS.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED AND MONITORED THROUGHOUT THE LIFE OF THE PROJECT AND SHALL BE REPAIRED OR REPLACED AS NECESSARY.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED AND MONITORED THROUGHOUT THE LIFE OF THE PROJECT AND SHALL BE REPAIRED OR REPLACED AS NECESSARY.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED AND MONITORED THROUGHOUT THE LIFE OF THE PROJECT AND SHALL BE REPAIRED OR REPLACED AS NECESSARY.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED AND MONITORED THROUGHOUT THE LIFE OF THE PROJECT AND SHALL BE REPAIRED OR REPLACED AS NECESSARY.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED AND MONITORED THROUGHOUT THE LIFE OF THE PROJECT AND SHALL BE REPAIRED OR REPLACED AS NECESSARY.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED AND MONITORED THROUGHOUT THE LIFE OF THE PROJECT AND SHALL BE REPAIRED OR REPLACED AS NECESSARY.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED AND MONITORED THROUGHOUT THE LIFE OF THE PROJECT AND SHALL BE REPAIRED OR REPLACED AS NECESSARY.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED AND MONITORED THROUGHOUT THE LIFE OF THE PROJECT AND SHALL BE REPAIRED OR REPLACED AS NECESSARY.

PHASE 2 AREA = 42.9 ACRES

EROSION CONTROL LEGEND

| | |
|----------|------------------------------------|
| (Symbol) | PERMANENT EROSION CONTROL MEASURES |
| (Symbol) | TEMPORARY EROSION CONTROL MEASURES |
| (Symbol) | PERMANENT EROSION CONTROL MEASURES |
| (Symbol) | TEMPORARY EROSION CONTROL MEASURES |
| (Symbol) | PERMANENT EROSION CONTROL MEASURES |
| (Symbol) | TEMPORARY EROSION CONTROL MEASURES |
| (Symbol) | PERMANENT EROSION CONTROL MEASURES |
| (Symbol) | TEMPORARY EROSION CONTROL MEASURES |

CONSTRUCTION NOTES

- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED WITHIN 30 DAYS OF THE COMPLETION OF ALL STREET IMPROVEMENTS.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED AND MONITORED THROUGHOUT THE LIFE OF THE PROJECT AND SHALL BE REPAIRED OR REPLACED AS NECESSARY.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED AND MONITORED THROUGHOUT THE LIFE OF THE PROJECT AND SHALL BE REPAIRED OR REPLACED AS NECESSARY.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED AND MONITORED THROUGHOUT THE LIFE OF THE PROJECT AND SHALL BE REPAIRED OR REPLACED AS NECESSARY.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED AND MONITORED THROUGHOUT THE LIFE OF THE PROJECT AND SHALL BE REPAIRED OR REPLACED AS NECESSARY.

PHASE 1

| LOT NO. | AREA (SQ FT) | ACRES |
|---------|--------------|-------|
| 35 | 7100 | 0.161 |
| 36 | 13300 | 0.305 |
| 37 | 13750 | 0.313 |
| 38 | 23500 | 0.540 |
| 39 | 11000 | 0.252 |
| 40 | 24000 | 0.551 |
| 41 | 11000 | 0.252 |
| 42 | 11000 | 0.252 |
| 43 | 11000 | 0.252 |
| 44 | 11000 | 0.252 |
| 45 | 11000 | 0.252 |
| 46 | 11000 | 0.252 |
| 47 | 11000 | 0.252 |
| 48 | 11000 | 0.252 |
| 49 | 11000 | 0.252 |
| 50 | 11000 | 0.252 |
| 51 | 11000 | 0.252 |
| 52 | 11000 | 0.252 |
| 53 | 11000 | 0.252 |
| 54 | 11000 | 0.252 |
| 55 | 11000 | 0.252 |
| 56 | 11000 | 0.252 |
| 57 | 11000 | 0.252 |
| 58 | 11000 | 0.252 |
| 59 | 11000 | 0.252 |
| 60 | 11000 | 0.252 |
| 61 | 11000 | 0.252 |
| 62 | 11000 | 0.252 |
| 63 | 11000 | 0.252 |
| 64 | 11000 | 0.252 |
| 65 | 11000 | 0.252 |
| 66 | 11000 | 0.252 |
| 67 | 11000 | 0.252 |
| 68 | 11000 | 0.252 |
| 69 | 11000 | 0.252 |
| 70 | 11000 | 0.252 |
| 71 | 11000 | 0.252 |
| 72 | 11000 | 0.252 |
| 73 | 11000 | 0.252 |
| 74 | 11000 | 0.252 |
| 75 | 11000 | 0.252 |
| 76 | 11000 | 0.252 |
| 77 | 11000 | 0.252 |
| 78 | 11000 | 0.252 |
| 79 | 11000 | 0.252 |
| 80 | 11000 | 0.252 |
| 81 | 11000 | 0.252 |
| 82 | 11000 | 0.252 |
| 83 | 11000 | 0.252 |
| 84 | 11000 | 0.252 |
| 85 | 11000 | 0.252 |
| 86 | 11000 | 0.252 |
| 87 | 11000 | 0.252 |
| 88 | 11000 | 0.252 |
| 89 | 11000 | 0.252 |
| 90 | 11000 | 0.252 |
| 91 | 11000 | 0.252 |
| 92 | 11000 | 0.252 |
| 93 | 11000 | 0.252 |
| 94 | 11000 | 0.252 |
| 95 | 11000 | 0.252 |
| 96 | 11000 | 0.252 |
| 97 | 11000 | 0.252 |
| 98 | 11000 | 0.252 |
| 99 | 11000 | 0.252 |
| 100 | 11000 | 0.252 |

PHASE 2

| LOT NO. | AREA (SQ FT) | ACRES |
|---------|--------------|-------|
| 1 | 6600 | 0.151 |
| 2 | 8000 | 0.183 |
| 3 | 8000 | 0.183 |
| 4 | 8000 | 0.183 |
| 5 | 8000 | 0.183 |
| 6 | 8000 | 0.183 |
| 7 | 8000 | 0.183 |
| 8 | 8000 | 0.183 |
| 9 | 8000 | 0.183 |
| 10 | 8000 | 0.183 |
| 11 | 8000 | 0.183 |
| 12 | 8000 | 0.183 |
| 13 | 8000 | 0.183 |
| 14 | 8000 | 0.183 |
| 15 | 8000 | 0.183 |
| 16 | 8000 | 0.183 |
| 17 | 8000 | 0.183 |
| 18 | 8000 | 0.183 |
| 19 | 8000 | 0.183 |
| 20 | 8000 | 0.183 |
| 21 | 8000 | 0.183 |
| 22 | 8000 | 0.183 |
| 23 | 8000 | 0.183 |
| 24 | 8000 | 0.183 |
| 25 | 8000 | 0.183 |
| 26 | 8000 | 0.183 |
| 27 | 8000 | 0.183 |
| 28 | 8000 | 0.183 |
| 29 | 8000 | 0.183 |
| 30 | 8000 | 0.183 |
| 31 | 8000 | 0.183 |
| 32 | 8000 | 0.183 |
| 33 | 8000 | 0.183 |
| 34 | 8000 | 0.183 |
| 35 | 8000 | 0.183 |
| 36 | 8000 | 0.183 |
| 37 | 8000 | 0.183 |
| 38 | 8000 | 0.183 |
| 39 | 8000 | 0.183 |
| 40 | 8000 | 0.183 |
| 41 | 8000 | 0.183 |
| 42 | 8000 | 0.183 |
| 43 | 8000 | 0.183 |
| 44 | 8000 | 0.183 |
| 45 | 8000 | 0.183 |
| 46 | 8000 | 0.183 |
| 47 | 8000 | 0.183 |
| 48 | 8000 | 0.183 |
| 49 | 8000 | 0.183 |
| 50 | 8000 | 0.183 |
| 51 | 8000 | 0.183 |
| 52 | 8000 | 0.183 |
| 53 | 8000 | 0.183 |
| 54 | 8000 | 0.183 |
| 55 | 8000 | 0.183 |
| 56 | 8000 | 0.183 |
| 57 | 8000 | 0.183 |
| 58 | 8000 | 0.183 |
| 59 | 8000 | 0.183 |
| 60 | 8000 | 0.183 |
| 61 | 8000 | 0.183 |
| 62 | 8000 | 0.183 |
| 63 | 8000 | 0.183 |
| 64 | 8000 | 0.183 |
| 65 | 8000 | 0.183 |
| 66 | 8000 | 0.183 |
| 67 | 8000 | 0.183 |
| 68 | 8000 | 0.183 |
| 69 | 8000 | 0.183 |
| 70 | 8000 | 0.183 |
| 71 | 8000 | 0.183 |
| 72 | 8000 | 0.183 |
| 73 | 8000 | 0.183 |
| 74 | 8000 | 0.183 |
| 75 | 8000 | 0.183 |
| 76 | 8000 | 0.183 |
| 77 | 8000 | 0.183 |
| 78 | 8000 | 0.183 |
| 79 | 8000 | 0.183 |
| 80 | 8000 | 0.183 |
| 81 | 8000 | 0.183 |
| 82 | 8000 | 0.183 |
| 83 | 8000 | 0.183 |
| 84 | 8000 | 0.183 |
| 85 | 8000 | 0.183 |
| 86 | 8000 | 0.183 |
| 87 | 8000 | 0.183 |
| 88 | 8000 | 0.183 |
| 89 | 8000 | 0.183 |
| 90 | 8000 | 0.183 |
| 91 | 8000 | 0.183 |
| 92 | 8000 | 0.183 |
| 93 | 8000 | 0.183 |
| 94 | 8000 | 0.183 |
| 95 | 8000 | 0.183 |
| 96 | 8000 | 0.183 |
| 97 | 8000 | 0.183 |
| 98 | 8000 | 0.183 |
| 99 | 8000 | 0.183 |
| 100 | 8000 | 0.183 |

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| PROJECT INFORMATION | | | |
|---------------------|-------------------|--------------|--|
| PROJECT MANAGER: | NLS | DATE: | |
| DESIGNER: | AF | APPROVED BY: | |
| ENGINEER: | AF | DATE: | |
| DRAWING NAME: | BASE (SUBSET/DWG) | | |

PROJECT NAME
SUNSET GROVE

SUBDIVISION
SUNSET GROVE SUBDIVISION PHASE 2

CHATHAM COUNTY
 NORTH CAROLINA

DEVELOPER
CHATHAM CAPITAL LLC

400 MARKET STREET
 CHAPEL HILL, NC 27516

SHEET NAME
EROSION CONTROL SUNSET GROVE RD

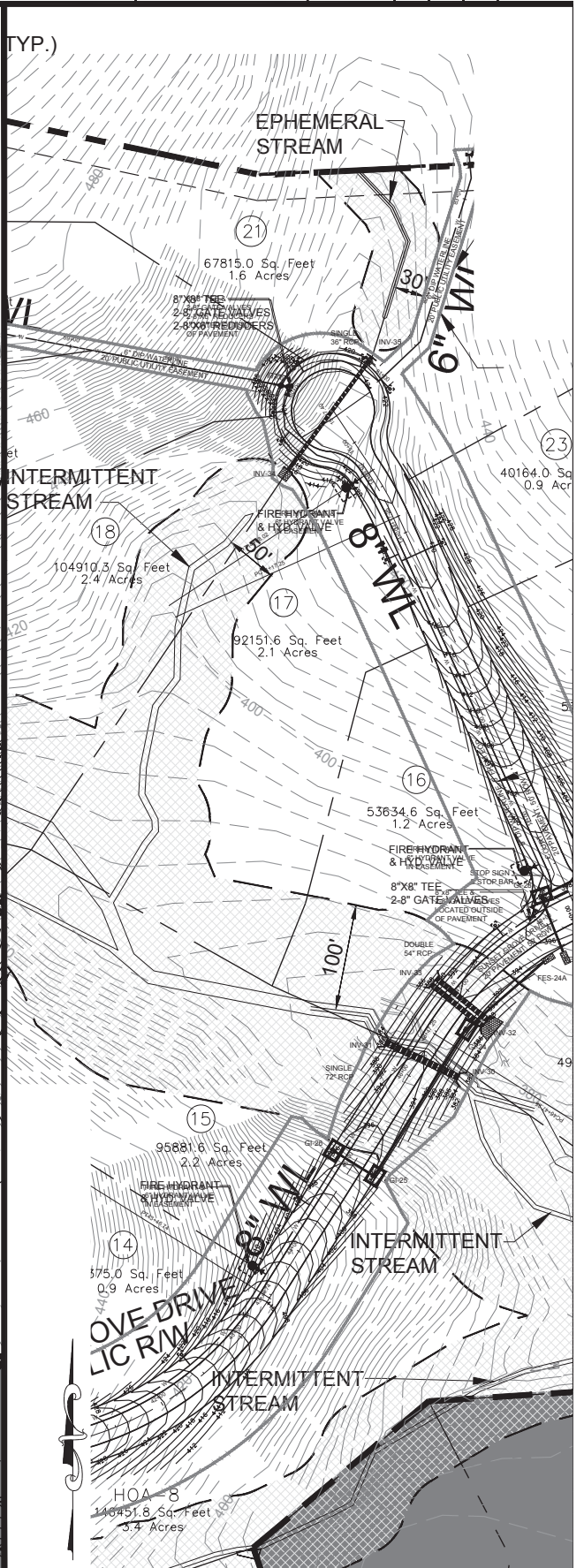
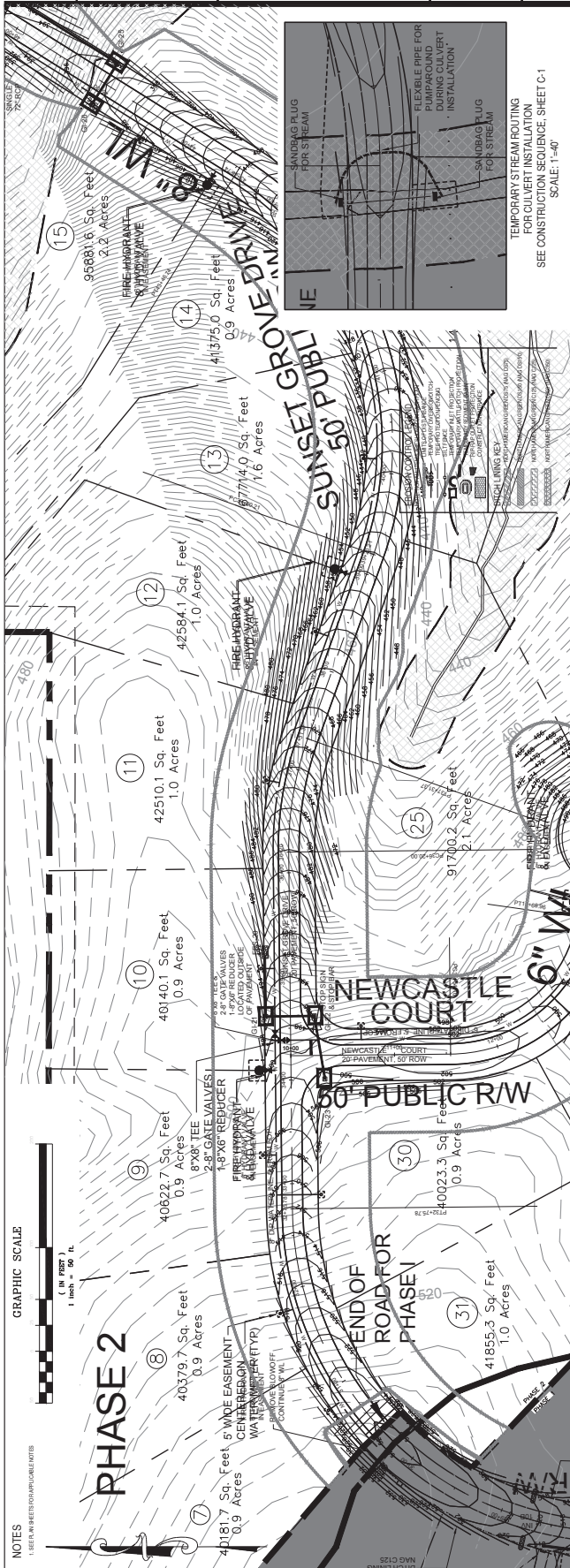
DRAWING SCALE
 1"=50'

PLANS SET
 CONSTRUCTION DRAWINGS

DATE
 4-19-2018

SHEET NUMBER
C-5A

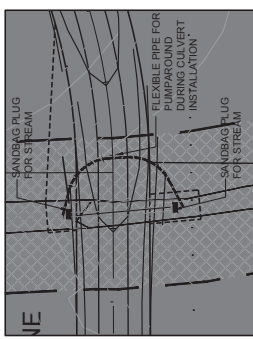
FINAL DRAWING - NOT
 RELEASED FOR CONSTRUCTION



GRAPHIC SCALE
 1 inch = 50 ft.

NOTES
 SEE SHEETS C-4 AND C-6

TEMPORARY STREAM ROUTING
 FOR CULVERT INSTALLATION
 SEE CONSTRUCTION SHEET C-1
 SCALE: 1"=40'



(TYP.)

EPHEMERAL STREAM

INTERMITTENT STREAM

INTERMITTENT STREAM

INTERMITTENT STREAM

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| PROJECT INFORMATION | |
|---------------------|------------------|
| PROJECT MANAGER: | KLJ |
| DRAWN BY: | AJP |
| APPROVED BY: | MLP |
| DRAWING NAME: | ROAD INFORMATION |

PROJECT NAME
SUNSET
GROVE
SUBDIVISION
PHASE 2
 CHATHAM COUNTY
 NORTH CAROLINA
DEVELOPER
 CHATHAM
 CAPITAL LLC

400 MARKET STREET
 CHAPEL HILL, NC 27516

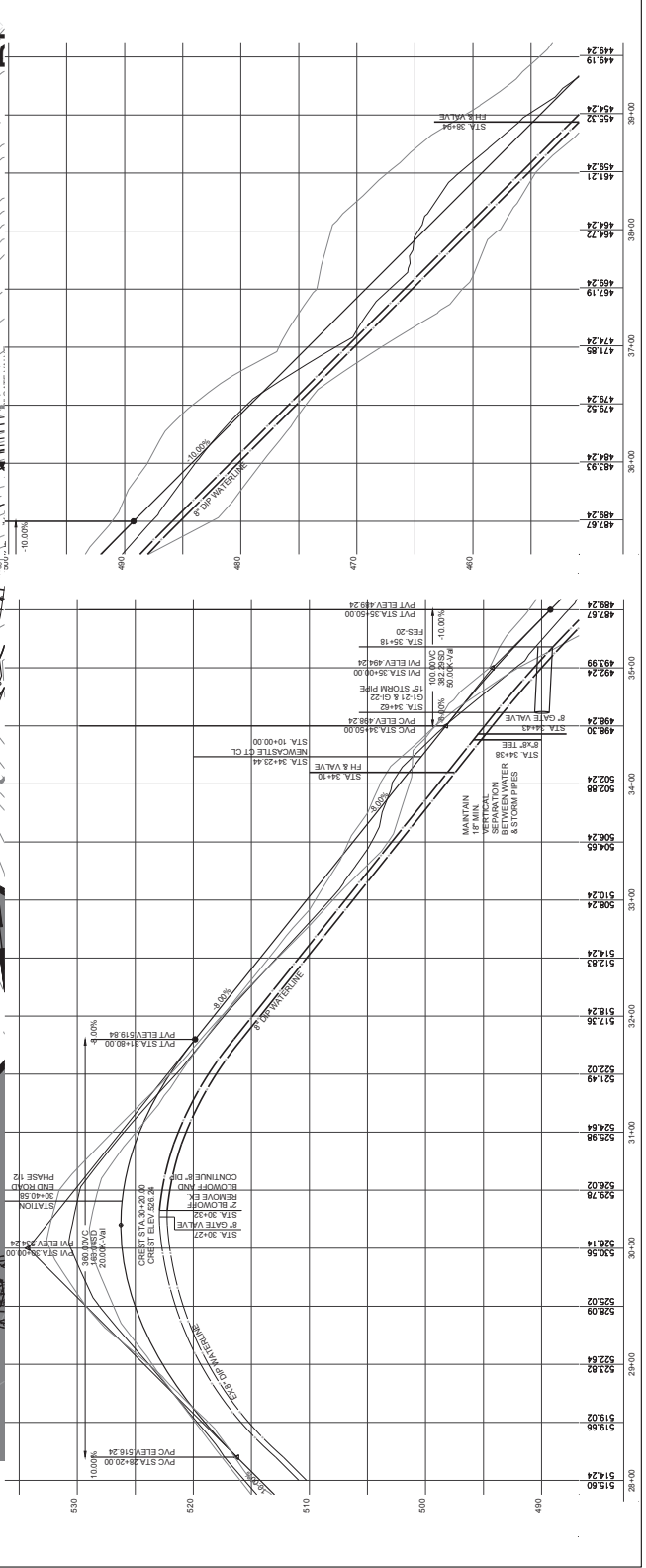
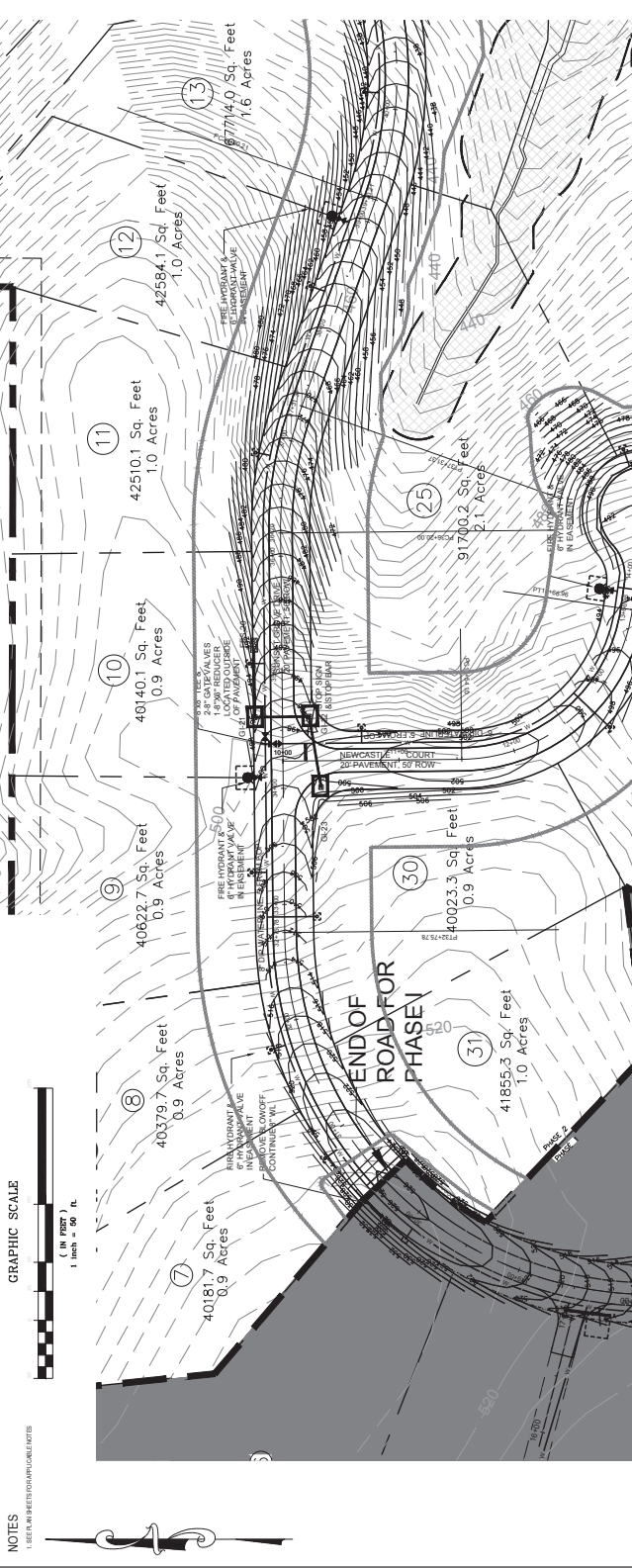
SHEET NAME
PLAN & PROFILE
SUNSET GROVE RD

DRAWING SCALE
 1" = 50'

PLANS SET
 CONSTRUCTION DRAWINGS

DATE
 4-19-2018

SHEET NUMBER
PP-1
 FINAL DRAWING - NOT
 RELEASED FOR CONSTRUCTION



Drew Blake

From: russell.briggs@bandfconsulting.com
Sent: Friday, March 08, 2019 1:55 PM
To: Rachael Thorn; Morgan DeWit; Drew Blake; Jason Sullivan
Cc: sarah.bpropnc@gmail.com; amber.farrelly@bandfconsulting.com
Subject: [Ext] Sunset Grove - Corps concurrence that less impact is acceptable.

CAUTION: This email originated from outside of the Chatham County network. Do not reply, click links, or open attachments unless you recognize the sender and know the content is safe. When in doubt, please call the sender (do not use the number listed on the email in question).

As requested, please find the following email thread which confirms what we relayed earlier; the Corps has no problem when the impact is less than what was originally permitted – it is still the same permit.

We are awaiting DWQ's similar response.

Russell Briggs

-----Original Message-----

From: Scott Mitchell
Sent: Friday, March 8, 2019 12:23 PM
To: 'Williams, Andrew E CIV USARMY CESAW (US)' <Andrew.E.Williams2@usace.army.mil>
Cc: Goss, Stephanie <stephanie.goss@ncdenr.gov>; Higgins, Karen (<karen.higgins@ncdenr.gov>
<karen.higgins@ncdenr.gov>
Subject: RE: Sunset Grove Subdivision: SAW-2015-02128 & DWR #16-0349 v2

Thank you Andy!

Stephanie and Karen, please confirm the same when you are able.

Thank you all, and have a great weekend!

Scott Mitchell, PE, LSS
President

Mitchell Environmental, PA
1501 Lakestone Village Lane
Suite 205
Fuquay-Varina, NC 27526

Scott@MitchellEnvironmental.com

Mobile: 919-669-0329

-----Original Message-----

From: Williams, Andrew E CIV USARMY CESAW (US) <Andrew.E.Williams2@usace.army.mil>

Sent: Friday, March 8, 2019 11:24 AM

To: Scott Mitchell <scott@mitchellenvironmental.com>

Cc: Goss, Stephanie <stephanie.goss@ncdenr.gov>; Higgins, Karen (<karen.higgins@ncdenr.gov>)

<karen.higgins@ncdenr.gov>; Williams, Andrew E CIV USARMY CESAW (US) <Andrew.E.Williams2@usace.army.mil>

Subject: FW: Sunset Grove Subdivision: SAW-2015-02128 & DWR #16-0349 v2

Scott,

I reviewed the plans you provided. The permanent impacts associated with this permit were for 80 linear feet. The new plans indicate the proposed permanent impacted amounts will be 58.6 linear feet within the same location as previously permitted. As such, the permit is still valid, except that the new plans provided on March 5, 2019 are now the approved plans associated with the permit verification.

Please let me know if you have any additional questions or concerns. Thanks.

Andrew Williams
Regulatory Project Manager
US Army Corps of Engineers
Wilmington District, Raleigh Regulatory Field Office
3331 Heritage Trade Drive, Suite 105
Wake Forest, North Carolina 27587
919-554-4884 ext. 26

-----Original Message-----

From: Scott Mitchell [mailto:scott@mitchellenvironmental.com]

Sent: Tuesday, March 5, 2019 6:01 PM

To: Williams, Andrew E CIV USARMY CESAW (US) <Andrew.E.Williams2@usace.army.mil>; Goss, Stephanie <stephanie.goss@ncdenr.gov>; Higgins, Karen <karen.higgins@ncdenr.gov>

Subject: [Non-DoD Source] Sunset Grove Subdivision: SAW-2015-02128 & DWR #16-0349 v2

Good afternoon Andy, Stephanie, and Karen.

I'm reaching out to you regarding Phase 2 of Sunset Grove Subdivision in Chatham County (SAW-2015-02128; DWR #16-0349 v2). The subdivision design engineers were required by NCDOT to modify the culvert design for the permitted crossing of Parker's Creek, and Chatham County is requiring your written acceptance of the modified design before they will allow construction to begin. Stream impacts resulting from the new design are slightly lower than what was permitted by your offices. I have attached copies of your permits, and the revised stream crossing design for your review. Please respond to this email indicating your acceptance of the revised design, or let me know of any additional information you need before you can issue your acceptance.

Do not hesitate to contact me by email or phone with any questions.

Thank you all in advance for your help!

Scott Mitchell, PE, LSS

President

Mitchell Environmental, PA

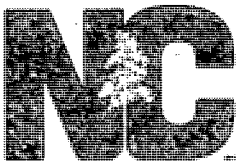
1501 Lakestone Village Lane

Suite 205

Fuquay-Varina, NC 27526

Scott@MitchellEnvironmental.com <mailto:Scott@MitchellEnvironmental.com>

Mobile: 919-669-0329



Water Resources
ENVIRONMENTAL QUALITY

ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

LINDA CULPEPPER
Interim Director

June 29, 2018

DWR #16-0349 v2
Chatham County

Chatham Capital, LLC
Attn: Sarah O'Brien
400 Market St., Ste. 115
Chapel Hill, NC 27516

Subject: APPROVAL OF 401 WATER QUALITY CERTIFICATION WITH ADDITIONAL CONDITIONS
Sunset Grove Subdivision

Dear Ms. O'Brien:

You have our approval for the impacts listed below for the purpose described in your received by the Division of Water Resources (Division) on May 15, 2018 with payment received on May 16, 2018. These impacts are covered by the attached Water Quality General Certification Number 4139 and the conditions listed below. This certification is associated with the use of Nationwide Permit Number 29 once it is issued to you by the U.S. Army Corps of Engineers. Please note that you should get any other federal, state or local permits before proceeding with your project, including those required by (but not limited to) Sediment and Erosion Control, Non-Discharge, and Water Supply Watershed regulations.

This approval requires you to follow the conditions listed in the enclosed certification and the following additional conditions:

1. The following impacts are hereby approved provided that all of the other specific and general conditions of the Certification are met. No other impacts are approved, including incidental impacts. [15A NCAC 02B .0506(b)(c)]

| Type of Impact | Amount Approved (units) Permanent | Amount Approved (units) Temporary |
|----------------|-----------------------------------|-----------------------------------|
| Stream | | |
| Road Crossing | 80 (linear feet) | 30 (linear feet) |

2. No Waste, Spoil, Solids, or Fill of Any Kind

No waste, spoil, solids, or fill of any kind shall occur in wetlands, waters, or riparian areas beyond the footprint of the impacts depicted in the Pre-Construction Notification. All construction activities, including the design, installation, operation, and maintenance of sediment and erosion control Best Management Practices, shall be performed so that no violations of state water quality standards, statutes, or rules occur. [15A NCAC 02H .0501 and .0502]

3. Protective Fencing

The outside buffer, wetland or water boundary and along the construction corridor within these boundaries approved under this authorization shall be clearly marked with orange warning fencing (or similar high visibility material) for the areas that have been approved to infringe within the buffer, wetland or water prior to any land disturbing activities to ensure compliance with 15 NCAC 02H .0500. [15A NCAC 02H .0506 (b)(2) and (c)(2) and 15A NCAC 02H .0507 (c)]

4. This approval is for the purpose and design described in your application. The plans and specifications for this project are incorporated by reference as part of the Certification. If you change your project, you must notify the Division and you may be required to submit a new application package with the appropriate fee. If the property is sold, the new owner must be given a copy of this approval letter and General Certification and is responsible for complying with all conditions. [15A NCAC 02B .0507(d)(2)]

5. This approval and its conditions are final and binding unless contested. [G.S. 143-215.5]

This Certification can be contested as provided in Articles 3 and 4 of General Statute 150B by filing a written petition for an administrative hearing to the Office of Administrative Hearings (hereby known as OAH). A petition form may be obtained from the OAH at <http://www.ncoah.com/> or by calling the OAH Clerk's Office at (919) 431-3000 for information.

Within **sixty (60) calendar days** of receipt of this notice, a petition must be filed with the OAH. A petition is considered filed when the original and one (1) copy along with any applicable OAH filing fee is received in the OAH during normal office hours (Monday through Friday between 8:00am and 5:00pm, excluding official state holidays).

The petition may be faxed to the OAH at (919) 431-3100, provided the original and one copy of the petition along with any applicable OAH filing fee is received by the OAH within five (5) business days following the faxed transmission.

Mailing address for the OAH:

If sending by First Class Mail

If sending via delivery service

via the US Postal Service:

(e.g. UPS, FedEx):

Office of Administrative Hearings
6714 Mail Service Center
Raleigh, NC 27699-6714

Office of Administrative Hearings
1711 New Hope Church Road
Raleigh, NC 27609-6285

One (1) copy of the petition must also be served to DEQ:

William F. Lane, General Counsel
Department of Environment and Natural Resources
1601 Mail Service Center
Raleigh, NC 27699-1601

Please send one (1) copy of the petition to DWR:

*If sending by First Class Mail
via the US Postal Service:*

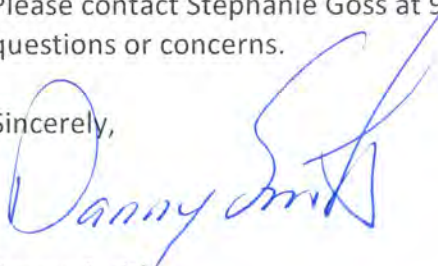
*If sending via delivery service
(e.g. UPS, FedEx):*

Karen Higgins
NC DWR – 401 & Buffer Permitting
Branch
1617 Mail Service Center
Raleigh, NC 27699-1617

Karen Higgins
NC DWR – 401 & Buffer Permitting
Branch
512 N. Salisbury Street
Raleigh, NC 27604

This letter completes the review of the Division under section 401 of the Clean Water Act. Please contact Stephanie Goss at 919-791-4256 or Stephanie.Goss@ncdenr.gov if you have any questions or concerns.

Sincerely,



Danny Smith
Supervisor, Water Quality Regional Operations Section

Enclosure: GC 4139

cc: U.S. Army Corps of Engineers; Raleigh Regulatory Field Office; 3331 Heritage Trade Drive, Ste. 105; Wake Forest, NC 27597
DWR RRO 401 file
DWR 401 & Buffer Permitting Unit
Scott Mitchell via e-mail at scott@mitchellenvironmental.com

Drew Blake

From: russell.briggs@bandfconsulting.com
Sent: Monday, March 11, 2019 4:26 PM
To: Morgan DeWit; Drew Blake
Cc: amber.farrelly@bandfconsulting.com; Jason Sullivan; sarah.bpropnc@gmail.com
Subject: [Ext] Sunset Grove Phase 2 - Confirmation that DWQ allows less impact than originally permitted

CAUTION: This email originated from outside of the Chatham County network. Do not reply, click links, or open attachments unless you recognize the sender and know the content is safe. When in doubt, please call the sender (do not use the number listed on the email in question).

Morgan and Drew: This is the last confirmation requested by Chatham County assuring that less impacts are ok under the previous permit.

Russell Briggs

-----Original Message-----

From: Goss, Stephanie <stephanie.goss@ncdenr.gov>
Sent: Monday, March 11, 2019 4:10 PM
To: Williams, Andrew E CIV USARMY CESAW (US) <Andrew.E.Williams2@usace.army.mil>; Scott Mitchell <scott@mitchellenvironmental.com>
Subject: RE: [External] FW: Sunset Grove Subdivision: SAW-2015-02128 & DWR #16-0349 v2

Scott,

I have reviewed the plans as well and since the impacts are less then the permitted impact which was 80 linear feet issued on June 29, 2018 (DWR #16-0349 v2) this e-mail serves as written verification for the updated plans received via e-mail on March 5, 2019. This e-mail will be added to the file as well for future reference.

Stephanie Z. Goss
Environmental Senior Specialist
Division of Water Resources
Raleigh Regional Office
3800 Barrett Drive
Raleigh, NC 27609
919-791-4256

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties

-----Original Message-----

From: Williams, Andrew E CIV USARMY CESAW (US) <Andrew.E.Williams2@usace.army.mil>
Sent: Friday, March 08, 2019 11:24 AM
To: Scott Mitchell <scott@mitchellenvironmental.com>
Cc: Goss, Stephanie <stephanie.goss@ncdenr.gov>; Higgins, Karen <karen.higgins@ncdenr.gov>; Williams, Andrew E CIV USARMY CESAW (US) <Andrew.E.Williams2@usace.army.mil>
Subject: [External] FW: Sunset Grove Subdivision: SAW-2015-02128 & DWR #16-0349 v2

CAUTION: External email. Do not click links or open attachments unless you verify. Send all suspicious email as an attachment to report.spam@nc.gov<mailto:report.spam@nc.gov>

Scott,

I reviewed the plans you provided. The permanent impacts associated with this permit were for 80 linear feet. The new plans indicate the proposed permanent impacted amounts will be 58.6 linear feet within the same location as previously permitted. As such, the permit is still valid, except that the new plans provided on March 5, 2019 are now the approved plans associated with the permit verification.

Please let me know if you have any additional questions or concerns. Thanks.

Andrew Williams
Regulatory Project Manager
US Army Corps of Engineers
Wilmington District, Raleigh Regulatory Field Office
3331 Heritage Trade Drive, Suite 105
Wake Forest, North Carolina 27587
919-554-4884 ext. 26

-----Original Message-----

From: Scott Mitchell [mailto:scott@mitchellenvironmental.com]
Sent: Tuesday, March 5, 2019 6:01 PM
To: Williams, Andrew E CIV USARMY CESAW (US) <Andrew.E.Williams2@usace.army.mil>; Goss, Stephanie <stephanie.goss@ncdenr.gov>; Higgins, Karen <karen.higgins@ncdenr.gov>
Subject: [Non-DoD Source] Sunset Grove Subdivision: SAW-2015-02128 & DWR #16-0349 v2

Good afternoon Andy, Stephanie, and Karen.

I'm reaching out to you regarding Phase 2 of Sunset Grove Subdivision in Chatham County (SAW-2015-02128; DWR #16-0349 v2). The subdivision design engineers were required by NCDOT to modify the culvert design for the permitted crossing of Parker's Creek, and Chatham County is requiring your written acceptance of the modified design before they will allow construction to begin. Stream impacts resulting from the new design are slightly lower than what was permitted by your offices. I have attached copies of your permits, and the revised stream crossing design for your review. Please respond to this email indicating your acceptance of the revised design, or let me know of any additional information you need before you can issue your acceptance.

Do not hesitate to contact me by email or phone with any questions.

Thank you all in advance for your help!

Scott Mitchell, PE, LSS

President

Mitchell Environmental, PA

1501 Lakestone Village Lane

Suite 205

Fuquay-Varina, NC 27526

Scott@MitchellEnvironmental.com <mailto:Scott@MitchellEnvironmental.com>

Mobile: 919-669-0329

Waters of the United States or Waters of the State. Please contact the US Army Corps of Engineers (USACE) or NC Division of Water Quality (DWQ) if any impacts are proposed to either of these waters.

Sincerely,



Rachael Thorn
Chatham County Watershed Administrator

cc: Paul Wojoski, NC DWR 401/Buffer Coordinator
Andy Williams, USACE Raleigh Regulatory Field Office
Jason Sullivan, Chatham County Planning Director
Kimberly Tyson, Chatham County Subdivision Administrator
Morgan DeWit, Chatham County Watershed Protection
File Copy

Enclosures: Riparian Buffer Authorization Application
Riparian Buffer Impacts Maps
Erosion Control Construction Drawings Sheets C-5, C-5A, C-5B, C-5C, C-5D, C-5E
USACE General Permit Verification (SAW-2015-02128), revised June 12, 2018
USACE correspondence for revised plans
NCDWR 401 Water Quality Certification (DWR# 16-0349 v2)
NCDWR correspondence for revised plans