

### PLANNING BOARD AGENDA

### **Members:**

**Chairman: Stephen Upton (Town)** 

Vice-Chairman: Mark Lane (ETJ)

Teresa Daughtry (Town) Ashley Spain (ETJ)

Doris Wallace(Town Alt) Alisa Bizzell (Town)

Michael Johnson (Town) Debbie Howard (Town)

Stephen Wensman, AICP, ALA, Planning Director Mark Helmer, AICP, CZO, Senior Planner Julie Edmonds, Administrative Assistant

Meeting Date: Thursday, May 7, 2020

Meeting Time: 6:00 p.m.

Meeting Place: Council Chambers, Smithfield Town Hall

### PLANNING BOARD AGENDA

### FOR REGULAR MEETING

May 7, 2020

**MEETING TIME: 6:00 PM TOWN HALL** 

Identify voting members.
Approval of the agenda.
Approval of the minutes for April 2, 2020

New Business.

Call to Order.

<u>S-19-02 Twin Creeks Phase 2:</u> Stewart-Proctor, PLLC is requesting preliminary plat approval of a 28 lot single-family attached residential subdivision on an 11.61 acre tract of land located within an R-20A (Residential-Agricultural) zoning district. The property considered for approval is located on the west east of Galilee Road, approximately 1,800 feet south its intersection with NC Highway 210. The property is further identified as Johnston County Tax ID# 15I09011B.

**Old Business** 

Adjournment

### Draft

# Town of Smithfield Planning Board Minutes Thursday, April 2, 2020 6:00 P.M., Town Hall, Council Chambers

**Members Present:** 

Chairman Stephen Upton Teresa Daughtry Debbie Howard Michael Johnson Doris Wallace **Members Absent:** 

Vice-Chair Mark Lane Alisa Bizzell Ashley Spain

**Staff Present:** 

Stephen Wensman, Planning Director
Julie Edmonds, Administrative Support Specialist

Staff Absent:

Mark Helmer, Senior Planner

CALL TO ORDER

### **IDENTIFY VOTING MEMBERS**

### APPROVAL OF AGENDA

Doris Wallace made a motion, seconded by Debbie Howard to approve the agenda. Unanimously approved

### **APPROVAL OF MINUTES from February 13, 2020**

Michael Johnson made a motion, seconded by Debbie Howard to approve the minutes as written. Unanimously approved

Donnie Adams was called by phone to participate in the meeting on behalf of Adam's & Hodge Engineering. Mr. Upton, asked Mr. Adams to please acknowledge for the record that it was his choice to communicate in this meeting by phone.

Mr. Adams stated that he did receive an invitation to attend the meeting but chose to participate by a conference call due to the COVID-19 situation.

### **NEW BUSINESS**

**S-18-01 Sam's Branch Development:** The applicant is requesting substantial changes to a previously approved subdivision plat of the proposed 298-315 lot residential planned unit development named East River. The subject property is located on the East and West side of Buffalo Road approximately 490 feet North of its intersection with Booker Dairy Road. The property is further identified as Johnston County Tax ID# 14075013.

Mr. Wensman stated that staff has asked the applicant to resubmit their preliminary plat which was approved on December 4<sup>th</sup>, 2018. Phase 1 of the plat is complete. The developer submitted Phase 2 which showed a significant change in how the stormwater management is going to be addressed; which is considered a major change from the original plan. Preliminary and final plats need to align; therefore, I have asked the applicant to seek reapproval. This property in question is on Buffalo Road, just North of the Credit Union. Originally the applicant was going to use an existing pond in the buffer down by the Neuse River for stormwater. DEQ determined that pond couldn't be used for water quality only for quantity. That presented a problem for the development because they wanted to do both. The original narrative for the project described pocket parks with common open space. These parks would be long green strips between rows of homes with paved trails, landscaping usable for soccer, football, corn hole, horse shoes, fire pits and cookouts. A lot of this space is now being used for a storm pond. The proposed HOA trail in the open space use to run more or less down the center of that open space and because it's now a wetland it's pushed to the edge of that open space.

The original masterplan was approved with conditions. Those conditions were that the applicant would provide overflow parking with each phase of development and the trail would go around the cul-de-sac down by the river, rather than through it. Those are the main conditions that the masterplan in its current form did not address, but they were conditions of approval that we expected to see. The revised plan shows the strips of blue in between the different rows of homes and you can see how the trails have pushed up against the back of some of the property lines. Those are the HOA trails, not the public trails. At the end of those green spaces you'll see roughly three parallel parking stalls each. That is the overflow parking the applicant is talking about. In some cases, that overflow parking is where people will pick up their mail. There is a little conflict between overflow parking spaces and cluster mailbox pickup for those that drive to the mailbox.

Mr. Wensman stated that Mr. Adams received the original report which listed the conditions and they are as follows:

- 1) That the developer obtains a NCDOT Right-of-Way Permit for the street access onto Buffalo Road prior to construction approval.
- 2) That Homeowners Association deed restrictions and covenants will be submitted for Town Attorney review to address among other items, a statement of compliance with state local and federal regulations, and operation and maintenance of shared open space, amenities and stormwater management facilities. These documents will require Town Attorney approval prior to recordation.
- 3) That there be no attached single-family residential units within phases 1 or 2 as identified on the approved master plan phasing plan.
- 4) That a park dedication fee in lieu of parkland be paid prior to recording the final plat approval of each phase of the development consistent with Article 10, Section 10.112.8.
- 5) That the public trail be constructed and easements be dedicated for trails adjacent to

each phase with the final plat of that phase consistent with the preliminary plat.

- 6) That the public trail in the cul-de-sac of Shore Court be modified such that it is independent of the sanitary sewer pump station access way and shall go around the Shore Court cul-de-sac.
- 7) The utilities shall be designed such that that extension can be made conveniently and without undue burden or expense to serve future adjacent development.
- 8) The developer will work with staff to incorporate overflow parking areas into each phase of development.

# Mr. Wensman stated that the previous two conditions have been met by the developer and they are as follows:

- 6) That the public trail in the cul-de-sac of Shore Court be modified such that it is independent of the sanitary sewer pump station access way and shall go around the Shore Court cul-de-sac.
- 8) The developer will work with staff to incorporate overflow parking areas into each phase of development.

Staff respectfully requests that the Planning Board review the PUD Master Plan/Preliminary Subdivision Plat and make a recommendation to approve, approve with conditions or deny the plat.

Mrs. Howard asked what the red area was on the map.

Mr. Adams stated the red is area that has been identified as wetlands.

Mrs. Daughtry asked if the pond gets inspected every so often.

Mr. Wensman said the developer or the HOA whomever is in charge at that point will have to submit a yearly stamped engineered certification that the pond has been inspected and operated correctly. If there are problems, they must be corrected within 190 days.

Mrs. Daughtry asked if the HOA will have a budget to take care of long-term maintenance and repair of the pond.

Mr. Adams stated he wasn't exactly sure but he knows the model of the HOA being used is one like they've used in other communities and it is maintenance free. He does know there are monthly fees associated but he doesn't know if the organization starts off with a beginning balance. Sometimes they do and are supplemented by the developer. He apologized for not having a better answer.

Mr. Upton requested that the Planning Department staff look into that to finalize the question.

Mr. Wensman stated that could be a recommended condition that there be funds for long-term maintenance. He doesn't know if it can be legally required though. If nothing else the Planning Board can make their concerns known.

Mrs. Howard said once so much of that is built out and sold, the homeowners will have control over the HOA so they can make changes as they would like to budgeting wise.

Mr. Upton requested someone make a motion with the approval of the recommendation by the Planning Department to the Town Council but to also include the recommendation just discussed about the HOA situation.

Mrs. Daughtry made a motion to approve S-18-01 with the recommendation that the Planning Department staff look into the long-term maintenance responsibility of the pond seconded by Debbie Howard. Unanimously approved

Mr. Upton thanked Mr. Adams for participating by phone and told him he would receive the recommendations from the Planning Department.

### **Old Business**

None

### <u>Adjournment</u>

Being no further business, Doris Wallace made a motion seconded by Debbie Howard to adjourn the meeting. Unanimously approved

Respectfully Submitted,

gulie Gdmonds

Julie Edmonds

**Administrative Support Specialist** 



# Request for Planning Board Action

Business Item: S-19-02

Date: 05/07/20

Subject: Twin Creeks Phase 2 Preliminary Subdivision

**Department:** Planning

Presented by: Stephen Wensman, Planning Director

**Presentation:** Business Item

### **Issue Statement**

Stewart-Proctor, PLLC is requesting the Twin Creeks Phase 2 Preliminary Subdivision Plat on behalf of Navaho Investment Company, LLC consisting of a proposed 28-lot attached single-family residential lots on 11.61 acres of land in the R-20A Zoning District.

### **Financial Impact**

This development is within the Town Corporate limits, will provide property taxes for 28 single family residential lots and will be served by Town utilities, police, fire, and trash and other public services.

### **Action Needed**

To review the Preliminary Subdivision Plat and make a recommendation to the Town Council.

### Recommendation

Planning Staff recommends the Planning Board recommend approval of the S-19-01 with 8 conditions of approval.

Approved: ☐ Town Manager ☐ Town Attorney

### Attachments:

- 1. Staff report
- 2. Application
- 3. Preliminary Plat and Plans



# Staff Report

Business Item:

REQUEST: Stewart-Proctor, PLLC is requesting the Twin Creeks Phase 2 Preliminary Subdivision Plat on behalf of Navaho Investment Company, LLC consisting of a proposed 28-lot attached single-family residential lots on 11.61 acres of land in the R-20A Zoning District.

APPLICATION:

Application Number: S-19-01

Twin Creeks Phase 2 Preliminary Plat Project Name:

TAX ID numbers: 15I09011B

NCPin numbers: 167300-56-5565

Town Limits/ETJ: Town Limits

Applicant: Stewart-Proctor, PLLC.

Navaho Investment Company, LLC Property Owner:

Agents: Michael Stewart

LOCATION: 6054 Black Creek Road - about 2000 linear feet south of Black Creek

Road on Galilee Road.

### SITE/DEVELOPMENT DATA:

11.61 acres Acreage:

Present Zoning: R-20A

Existing Uses: Vacant agricultural land

Proposed Use: Single-family Detached Residential Cluster Subdivision

Fire Protection: Town of Smithfield

School Impacts: Potentially adding students to the schools. Parks and Recreation: Subject to park dedication fees in lieu funds

Galilee Road Access:

Water Provider: Town of Smithfield Sewer Provider: Town of Smithfield Electric Provider: **Duke Energy** 

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### ADJACENT ZONING AND LAND USES:

	Exiting Zoning	Existing Use:	
North	R-20A Rural Residential & Wes		
		Smithfield Elementary	
		School	
South-East	R-20A	Agricultural	
West	R-20A	Twin Creeks Phase 1	
		Subdivision	
		(Preliminary Plat)	
South	R-20A	Agricultural	

### **EXISTING CONDITIONS:**

The Phase 2 subdivision site is currently an agricultural property located just south of the West Smithfield Elementary School. The site slopes from Galilee Road towards a creek (which is the division line between Phase 1 and Phase 2). A drainage ditch bisects the field and flows toward the creek. Along the northern and southern property lines are rows of existing conifers.

### **SPECIAL USE:**

The proposed subdivision plans on utilizing the cluster provisions of the Unified Development Code Section 7.34 which require a Special Use Permit. The approval of the preliminary plat is conditioned on approval of the special use permit.

### PRELIMINARY PLAT/PLANS ANALYSIS:

**Unit Type/Density/Lot Size.** The developer is proposing to construct (28) single family detached residential lots, 0.25 acres in size on average (0.21-0.35 acres in size) with 2.94 acres of preserved open space containing the stormwater SCM and a trail to be owned in common ownership with a homeowner's association.

The Minimum Lot Size in the R-20A zoning district is 15,000 sq. ft. (0.34 acres); however, the cluster regulations allow for 60% reduction in lot size or 9000 sq. ft. (.21 acres).

Minimum Lot Width in the R-20A zoning district is 75 feet; however, the cluster regulations allow for narrower lots (40 ft).

**Open Space.** The subdivision is preserving 2.94 acres (26.3%) of open space; with 0.81 acres serving as a buffer from Galilee Road and the remaining 2.13 acres along the creek. The development meets or exceeds each of the required open space requirements of the cluster regulations:

- greater or equal in area to the total amount of area by which each lot was reduced below the minimum lot size
- not less than 15% of the gross acreage as common open space.
- capable of being used and enjoyed for purposes of informal and unstructured recreation and relaxation or for horticulture (meets this requirement if stormwater SCM is not included).
- legally and practically accessible to the residents of the development.
- A minimum of one-half of the required open space shall be contained in one continuous undivided part.

• perpetually owned and maintained for the purposes of this section by a homeowners association.

Access and Parking. The subdivision will be served by a cul-de-sac that accesses Galilee Road. The access requires an NCDOT Permit. The developer is required to provide a 5-foot-wide sidewalk on one side of the street right-of-way in accordance with UDO Section 2.22. Comprehensive Growth Management Plan and Transportation Plan suggest an urban street section with curb and gutter in this area. The Town's Standard Street Section, Drawing 0302, Standard Detail and Specifications Manual requires a 27' back to back street with curb and gutter and a sidewalk on one side of the street in a 50 foot wide right-of-way. The construction drawings do not comply with this requirement at this time.

The cul-de-sac is temporary and will be removed when the street is extended to the vacant parcel to the south when it develops.

**Utilities.** The development will be served by Town of Smithfield water and sewer with a Master Meter on the County's system. A sewage lift station is proposed in Phase 1 to pump sewage to the County's lines. Electricity will be provided by Duke Progress Energy.

**Sidewalks.** The UDO requires the applicant to construct a public sidewalk along Galilee Road and along one side of the cul-de-sac with the new development according to UDO Section 10.112.

**Park Dedication.** According to the UDO, Section 10.112.3, at least one fifty-seventh of an acre (1/57) shall be dedicated for each dwelling unit planned or provided for in the subdivision plan. Alternatively, the Town can accept a fee in lieu of parkland. There are no Town plans for parks in this area and the applicant will be required to pay a fee in lieu of parkland dedication. The fee in lieu will be due prior to recording the final plat, based on the number of lots in the plat (28).

**Stormwater Management.** The applicant has submitted a stormwater management plan and is proposing to construction a stormwater management facility (SCM) in the open space near the creek. A stormwater maintenance agreement will be executed to ensure the developer/HOA is responsible for the ongoing maintenance of the pond.

**Tree Preservation.** A tree preservation plan is required, but none has been yet submitted by the developer. The tree preservation plan will identify perimeter trees and significant trees that are required for preservation or mitigation.

**Lighting.** A street lighting plan was submitted with the construction drawings in compliance with the Town's ordinance.

**Signs.** The applicant has not proposed any entrance/development signs at this time. Any signs will require a sign permit prior to construction and will need to comply with the UDO.

### PLANNING DEPARTMENT RECOMMENDATIONS:

The Planning Department and Planning Board recommend approval of the preliminary plat (S-19-01) with the following conditions:

- 1. That a special use permit be approved by the Town Council for the cluster development.
- That a NCDOT Permit be provided for the road access and sidewalk encroachment in the NCDOT right-of-way.

- 3. That the Town's stormwater management facility maintenance agreement be executed prior to final plat recordation.
- 4. That the HOA declarations and covenants be submitted for Town Attorney review and recorded with the final plat.
- 5. That a park dedication fee in lieu be paid for the 28 residential lots prior to final plat recordation in accordance with the UDO, Section 10.10.114.8.
- 6. That sidewalks be constructed along Galilee Road and along the new street in the subdivision.
- 7. That the trail maintenance shall be the responsibility of the homeowners association.
- 8. That a tree preservation plan be submitted complying with UDO Section 10.9

### **ACTION REQUESTED:**

The Planning Board is requested to review the preliminary plat application and make a recommendation to the Town Council.

Suggested motion:

"Move to recommend approval of the preliminary plat of the Oakfield Towns Preliminary Plat (S-18-02) with 8 conditions"





### Town of Smithfield

**Planning Department** 

350 E. Market St Smithfield, NC 27577 P.O. Box 761, Smithfield, NC 27577

Phone 919-934-2116 Fax: 919-934-1134

### **Preliminary Subdivision Application General Information** Development Name TWIN CREEKS PHASE II Proposed Use RESIDENTIAL Property Address(es) 6054 BLACK CREEK RD. SMITHFIELD NC 27577 Johnston County Property Identification Number(s) and Tax ID Number (s) for each parcel to which these guidelines will apply: 167300-56-5565 15I09011B Project type? Single Family Townhouse Multi-Family Non-Residential Planned Unit Development (PUD) OWNER/DEVELOPER INFORMATION Company Name NAVAHO INVESTMENT COMPANY LLC Owner/Developer Name Address 4909 WESTERN BLVD. SUITE 200 RALEIGH, NC 27606 Email **Phone** Fax **CONSULTANT/CONTACT PERSON FOR PLANS** Company Name STEWART-PROCTOR PLLC Contact Name MICHAEL STEWART Address 319 CHAPANOKE ROAD SUITE 106 RALEIGH, NC 27603 Phone (919) 779-1855 Email STEWARTPE@AOL.COM Fax (919) 779-1661 **DEVELOPMENT TYPE AND SITE DATE TABLE (Applicable to all developments)** ZONING INFORMATION Zoning District(s) R-20A If more than one district, provide the acreage of each: Yes No Overlay District? Inside City Limits? Yes No

FOR OFFICE USE ONLY

Date Received:

Amount Paid:

Date Submitted:

File Number:

STORMWATER INFORMATION						
Existing Impervious Surface acres/sf	Flood Hazard Area Yes No					
Proposed Impervious Surface 3,33 acres/sf AC	Neuse River Buffer Yes No					
Watershed protection Area Yes No	Wetlands Yes No					
If in a Flood Hazard Area, provide the FEMA Map Panel # and Base	Flood Elevation					
NUMBER OF LO	TS AND DENSITY					
Total # of Single Family Lots 28	Overall Unit(s)/Acre Densities Per Zoning Districts 2.9 units					
Total # of Townhouse Lots <b>0</b>	Acreage in active open space					
Total # of All Lots 28	Acreage in passive open space 2.94 Acres					
SIGNATURE BLOCK (Appli	cable to all developments)					
In filing this plan as the property owner(s), I/we do hereby agree a successors and assigns jointly and severally to construct all improve subdivision plan as approved by the Town.						
I hereby designate Michael Stewart to respond to administrative comments, to resubmit plans on my behapplication.	serve as my agent regarding this application, to receive and half, and to represent me in any public meeting regarding this					
I/we have read, acknowledge, and affirm that this project is conforming to all application requirements applicable with the proposed development use.  Signature Date 4 - 5 / 9						
Signature	Date					
Jigilature						
REVIEW						
Major Subdivision (Submit 7 paper copies & 1 Digital copy	on CD) \$250.00 + \$5.00 a lot \$255.00 minimum , \$290					
Minor Subdivision (Submit 4 paper copies & 1 Digital copy	on CD) \$50.00 + \$5.00 a lot \$55.00 minimum					
Recombination Plat (Submit 2 paper copies & 1 Digital co	oy on CD) \$50.00					
FOR OFF	ICE LICE ONLY					
FOR OFFICE USE ONLY						
File Number:Date Submitted:	Date Received:Amount Paid:					

### **Project Narrative**

As part of a complete application, a written project narrative that provides detailed information regarding your proposal must be included. On a separate sheet of paper, please address each of the lettered items listed below (answers must be submitted in both hard copy and electronic copy using the Adobe .PDF or MS Word .DOCX file formats):

- a) A listing of contact information including name(s), address(es) and phone number(s) of: the owner of record, authorized agents or representatives, engineer, surveyor, and any other relevant associates;
- b) A listing of the following site data: Address, current zoning, parcel size in acres and square feet, property identification number(s) (PIN), and current legal description(s);
- c) A listing of general information including: the proposed name of the subdivision, the number of proposed lots, acreage dedicated for open space or public use, acreage dedicated within rights of way;
- d) A narrative explaining the intent of the project and/or your original or revised vision for the finished product;
- e) A statement showing the proposed density of the project with the method of calculating said density shown;
- f) Discuss proposed infrastructure improvements and phasing thereof (i.e. proposed roadways, sewer systems, water systems, sidewalks/trails, parking, etc.) necessary to serve the subdivision;
- g) A narrative addressing concerns/issues raised by neighboring properties (discussing your proposal with the neighboring land owners is recommended to get a sense of what issues may arise as your application is processed);
- h) A description of how conflicts with nearby land uses (livability, value, potential future development, etc.) and/or disturbances to wetlands or natural areas are being avoided or mitigated;
- i) Provide justification that the proposal will not place an excessive burden on roads (traffic), sewage, water supply, parks, schools, fire, police, or other public facilities/services (including traffic flows) in the area;
- j) A description of proposed parks and/or open space. Please include a brief statement on the proposed ownership and maintenance of said areas;
- k) A proposed development schedule indicating the approximate date when construction of the project, or stages of the same, can be expected to begin and be completed (including the proposed phasing of construction of public improvements and recreational and common space areas).

### INFORMATION TO BE PROVIDED ON PRELIMINARY AND FINAL PLATS.

The preliminary and final plats shall depict or contain the information indicated in the following table. An "X" indicates that the information is required.

Information	Preliminary Plat	Final Plat
Vicinity map (6" W x 4" H) showing location of subdivision in relation to neighboring tracts, subdivision, roads, and waterways (to include streets and lots of adjacent developed or platted properties). Also include corporate limits, Town boundaries, county lines if on or near subdivision tract.	Х	
Boundaries of tract and portion to be subdivided, including total acreage to be subdivided, distinctly and accurately represented with all bearings and distances shown.	X	X
Proposed street layout and right-of-way width, lot layout and size of each lot.  Number lots consecutively throughout the subdivision.	X	×
Name of proposed subdivision.	X	X
Statement from the Johnston County Health Department that a copy of the sketch plan has been submitted to them, if septic tanks or other onsite water or wastewater systems are to be used in the subdivision, AND/OR statement from the County Public Utilities that application has been made for public water and/or sewer permits.	X	
Graphic scale.	×	X
North arrow and orientation.	×	X
Concurrent with submission of the Preliminary Plat to the Town, the subdivider or planner shall submit copies of the Preliminary Plat and any accompanying material to any other applicable agencies concerned with new development, including, but not limited to: District Highway Engineer, County Board of Education, U.S. Army Corps of Engineers, State Department of Natural Resources and Community Development, for review and recommendation.	X	
List the proposed construction sequence.	X	
Storm water plan – see Article 10, Part VI.	X	
Show existing contour lines with no larger than five-foot contour intervals.	×	
New contour lines resulting from earth movement (shown as solid lines) with no larger than five-foot contour intervals (existing lines should be shown as dotted lines).	Х	
Survey plat, date(s) survey was conducted and plat prepared, the name, address, phone number, registration number and seal of the Registered Land Surveyor.	X	Х
Names, addresses, and telephone numbers of all owners, mortgagees, land planners, architects, landscape architects and professional engineers responsible for the subdivision (include registration numbers and seals, where applicable).	Х	Х
Date of the drawing(s) and latest revision date(s).	X	X

Information	Preliminary Plat	Final Plat
The owner's name(s) of adjoining properties and Zoning District of each parcel within 100' of the proposed site.	Х	
State on plans any variance request(s).	X	
Show existing buildings or other structures, water courses, railroads, bridges, culverts, storm drains, both on the land to be subdivided and land immediately adjoining. Show wooded areas, marshes, swamps, rock outcrops, ponds or lakes, streams or stream beds and any other natural features affecting the site.	Х	
The exact location of the flood hazard, floodway and floodway fringe areas from the community's FHBM or FIRM maps (FEMA). State the base flood elevation data for subdivision.	Х	X
Show the minimum building setback lines for each lot.	X	X
Provide grading and landscape plans. Proposed plantings or construction of other devices to comply with the screening requirements of Article 10, Part II.	Х	
Show location of all proposed entrance or subdivision signage (see Section 10.23.1).	Х	
Show pump station detail including any tower, if applicable.	X	
Show area which will not be disturbed of natural vegetation (percentage of total site).	Х	
Label all buffer areas, if any, and provide percentage of total site.	Х	X
Show all riparian buffer areas.	Х	Х
Show all watershed protection and management areas per Article 10, Part VI.	Х	X
Soil erosion plan.	X	
Show temporary construction access pad.	X	
Outdoor illumination with lighting fixtures and name of electricity provider.	Х	
The following data concerning proposed streets:		
Streets, labeled by classification (see Town of Smithfield construction standards) and street name showing linear feet, whether curb and gutter or shoulders and swales are to be provided and indicating street paving widths, approximate grades and typical street cross-sections. Private roads in subdivisions shall also be shown and clearly labeled as such.	Х	Х
Traffic signage location and detail.	X	
Design engineering data for all corners and curves.	Х	X
For office review; a complete site layout, including any future expansion anticipated; horizontal alignment indicating general curve data on site layout plan; vertical alignment indicated by percent grade, PI station and vertical curve length on site plan layout; the District Engineer may require the plotting of the ground profile and grade line for roads where special conditions or problems exist; typical section indicating the pavement design and width and the slopes, widths and details for either the curb and gutter or the shoulder and ditch proposed; drainage facilities and drainage.	X	

Information	Preliminary Plat	Final Plat
Type of street dedication; all streets must be designated public. (Where public streets are involved which will be dedicated to the Town, the subdivider must submit all street plans to the UDO Administrator for approval prior to preliminary plat approval).	х	Х
When streets have been accepted into the municipal or the state system before lots are sold, a statement explaining the status of the street in accordance with the Town of Smithfield construction standards.	Х	Х
If any street is proposed to intersect with a state maintained road, a copy of the application for driveway approval as required by the Department of Transportation, Division of Highways Manual on Driveway Regulations.  (1) Evidence that the subdivider has applied for such approval.	×	
(2) Evidence that the subdivider has obtained such approval.	X	
The location and dimensions of all:		
Utility and other easements.	Х	X
Pedestrian and bicycle paths.	X	Х
Areas to be dedicated to or reserved for public use.	X	X
The future ownership (dedication or reservation for public use to governmental body or for owners to duly constituted homeowners' association) of recreation and open space lands.	Х	Х
Required riparian and stream buffer per Article 10, Part VI.	X	Х
The site/civil plans for utility layouts including:		
Sanitary sewers, invert elevations at manhole (include profiles).	X	
Storm sewers, invert elevations at manhole (include profiles).	X	
Best management practices (BMPs)	X	
Stormwater control structures	X	
Other drainage facilities, if any.	X	
Impervious surface ratios	X	
Water distribution lines, including line sizes, the location of fire hydrants, blow offs, manholes, force mains, and gate valves.	Х	
Gas lines.	X	
Telephone lines.	X	
Electric lines.	X	
Plans for individual water supply and sewage disposal systems, if any.	X	
Provide site calculations including:		
Acreage in buffering/recreation/open space requirements.	X	Х
Linear feet in streets and acreage.	X	Х
The name and location of any property or buildings within the proposed subdivision or within any contiguous property that is located on the US Department of Interior's National Register of Historic Places.	X	Х

Information	Preliminary Plat	Final Plat
Sufficient engineering data to determine readily and reproduce on the ground every straight or curved line, street line, lot line, right-of-way line, easement line, and setback line, including dimensions, bearings, or deflection angles, radii, central angles and tangent distance for the center line of curved property lines that is not the boundary line of curved streets. All dimensions shall be measured to the nearest one-tenth of a foot and all angles to the nearest minute.	X	Х
The accurate locations and descriptions of all monuments, markers, and control points.	Х	Х
Proposed deed restrictions or covenants to be imposed upon newly created lots. Such restrictions are mandatory when private recreation areas are established. Must include statement of compliance with state, local, and federal regulations.	Х	X
A copy of the erosion control plan submitted to the Regional Office of NC-DNRCD, when land disturbing activity amounts to one acre or more.	Х	
All certifications required in Section 10.117.	Х	×
Any other information considered by either the subdivider, UDO Administrator, Planning Board, or Town Council to be pertinent to the review of the plat.	X	Х
Improvements guarantees (see Section 5.8.2.6).		X

FOR OFFICE USE ONLY					
File Number:	Date Submitted:	_Date Received:	_Amount Paid:		

### 2500 Block of Galilee Road

**Project Name: Twin Creeks** Subdivision Phase II

File Number: S-19-01

**Exisiting Zoning:** R-20A (Residential -Agricultural)

**Proposed Lots:** 

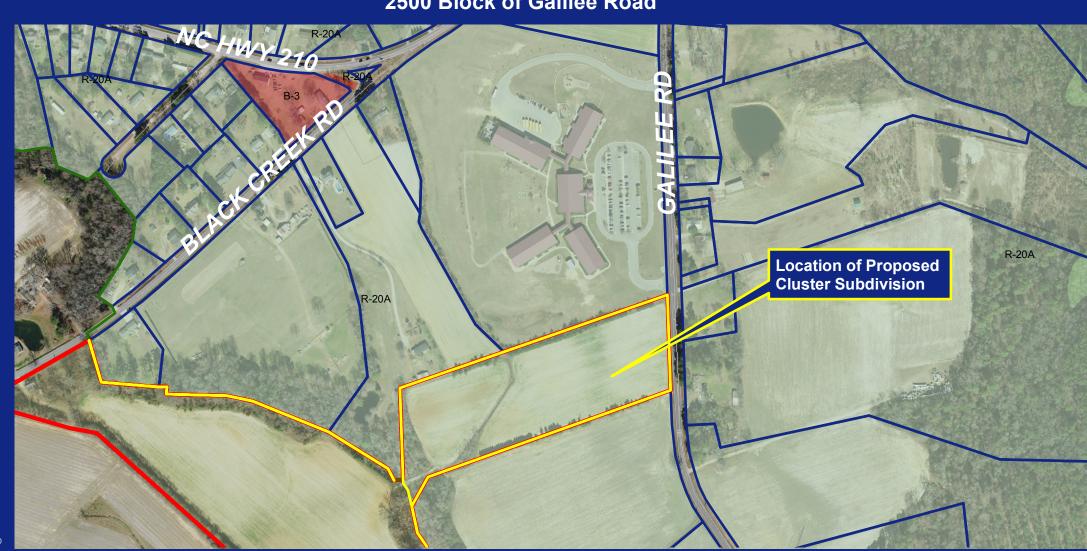
**Property Owner: Navaho Investment Company LLC** 

**Location: 2500 Block** of Galilee Road

Tax ID# 15I09011B



Map created by the Mark E. Helmer, AICP Senior Planner, GIS Specialist on 4/16/2020

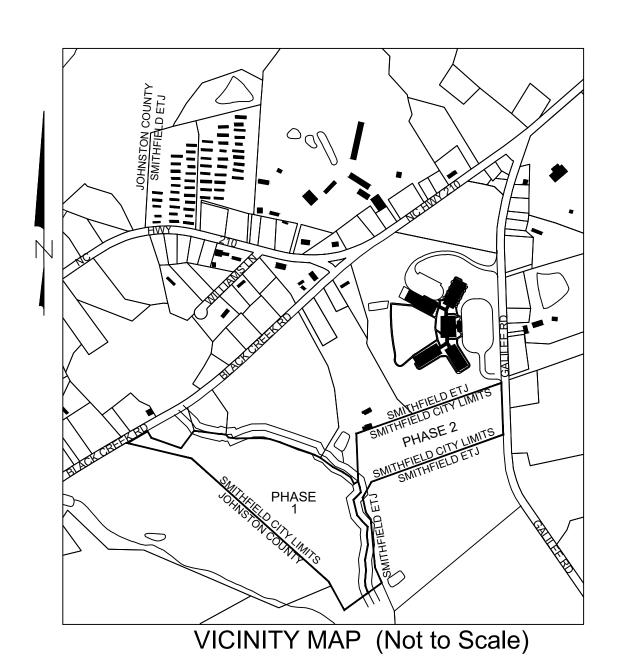


# PRELIMINARY PLANS TWIN CREEKS SUBDIVISION PHASE 2

# SMITHFIELD, NORTH CAROLINA

OWNER/DEVELOPER: NAVAHO INVESTMENT COMPANY LLC 4909 WESTERN BLVD, STE 200

RALEIGH, NORTH CAROLINA 27606



# C-1 COVER SHEET C-2 TOTAL SITE PLAN C-2A SITE PLAN - PHASE 2 C-3 GRADING AND EROSION CONTROL PLAN PHASE 2 C-4 ROADWAY PLAN & PROFILE L-2 C-5 BY-PASS PIPE PLAN & PROFILE C-6 WET DETENTION DETAIL SHEET C-7 WATER SYSTEM AND UTILITY PLAN C-7A WATER SYSTEM AND UTILITY PLAN 2 C-8 PROPOSED LIGHTING PLAN D-1 DETAIL SHEET - EROSION CONTROL

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319 CHAPANOKE
Raleigh, North Caroli



NAVAHO INVESTMENT COMPANY LLC
4909 WESTERN BLVD, STE 200
RALEIGH, NC 27606

DATE: 03-01-2019
PROJECT ENGINEER:
MIKE STEWART
PROJECT ENGINEER:

V CREEKS PHASE 2

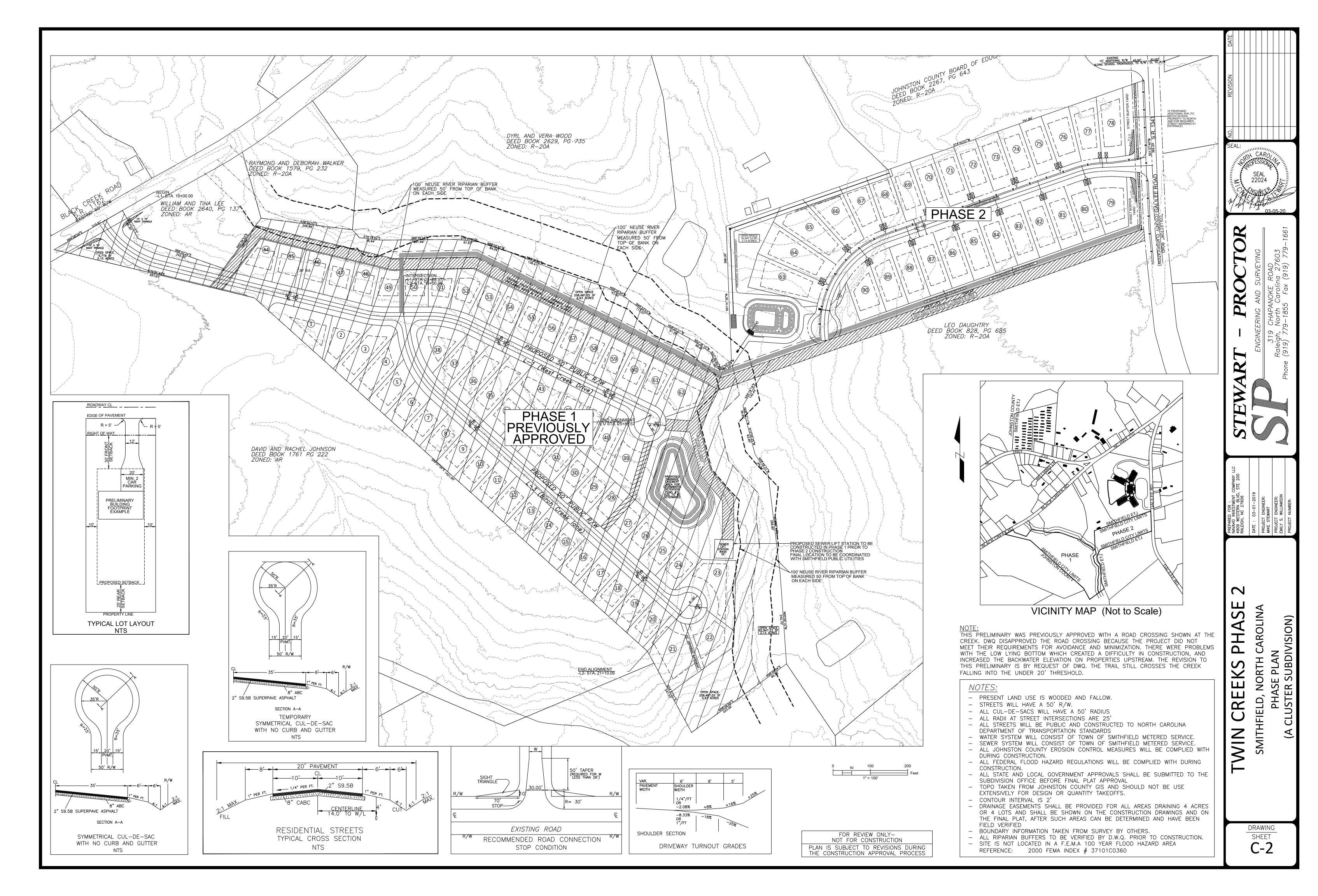
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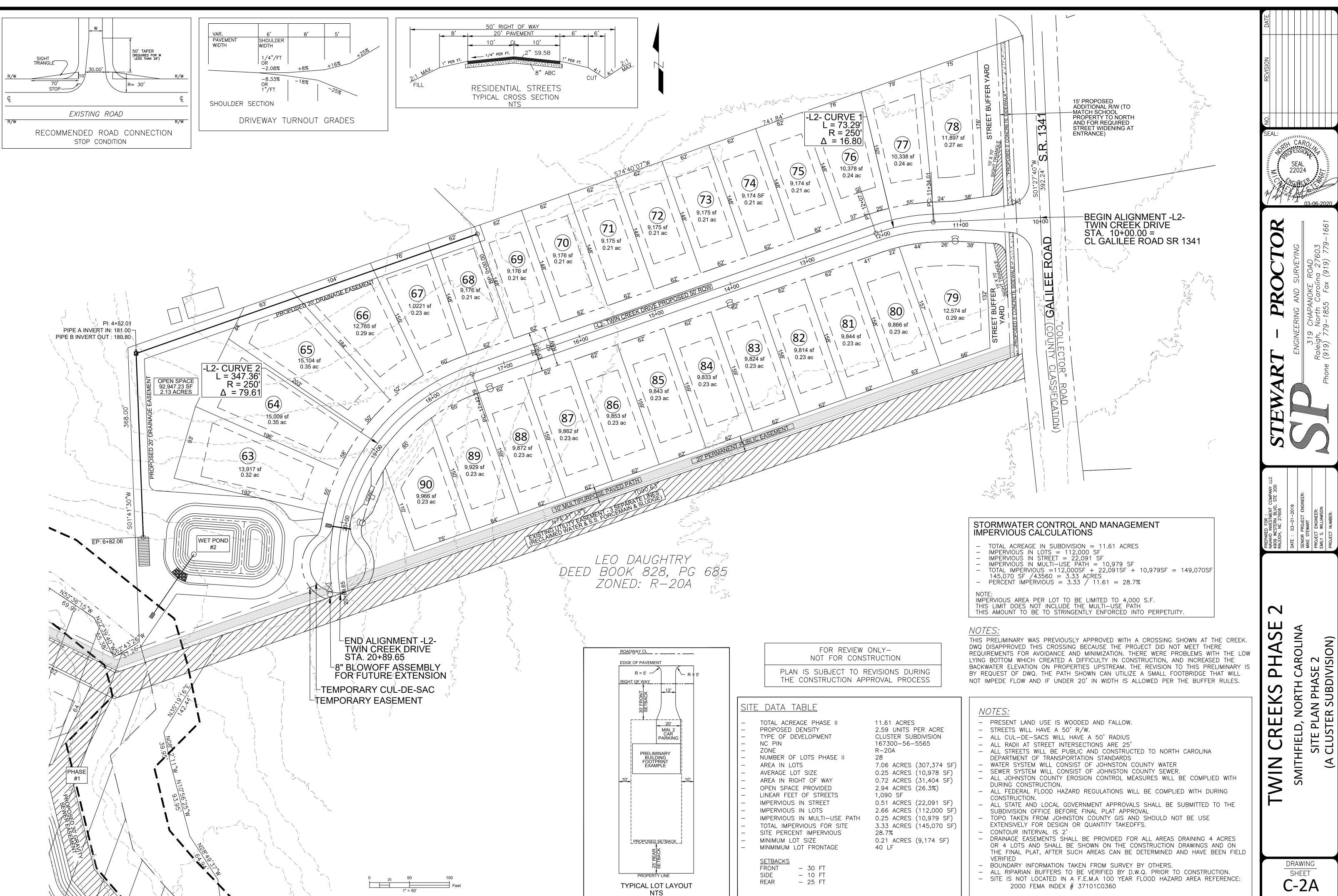
COVER SHEET

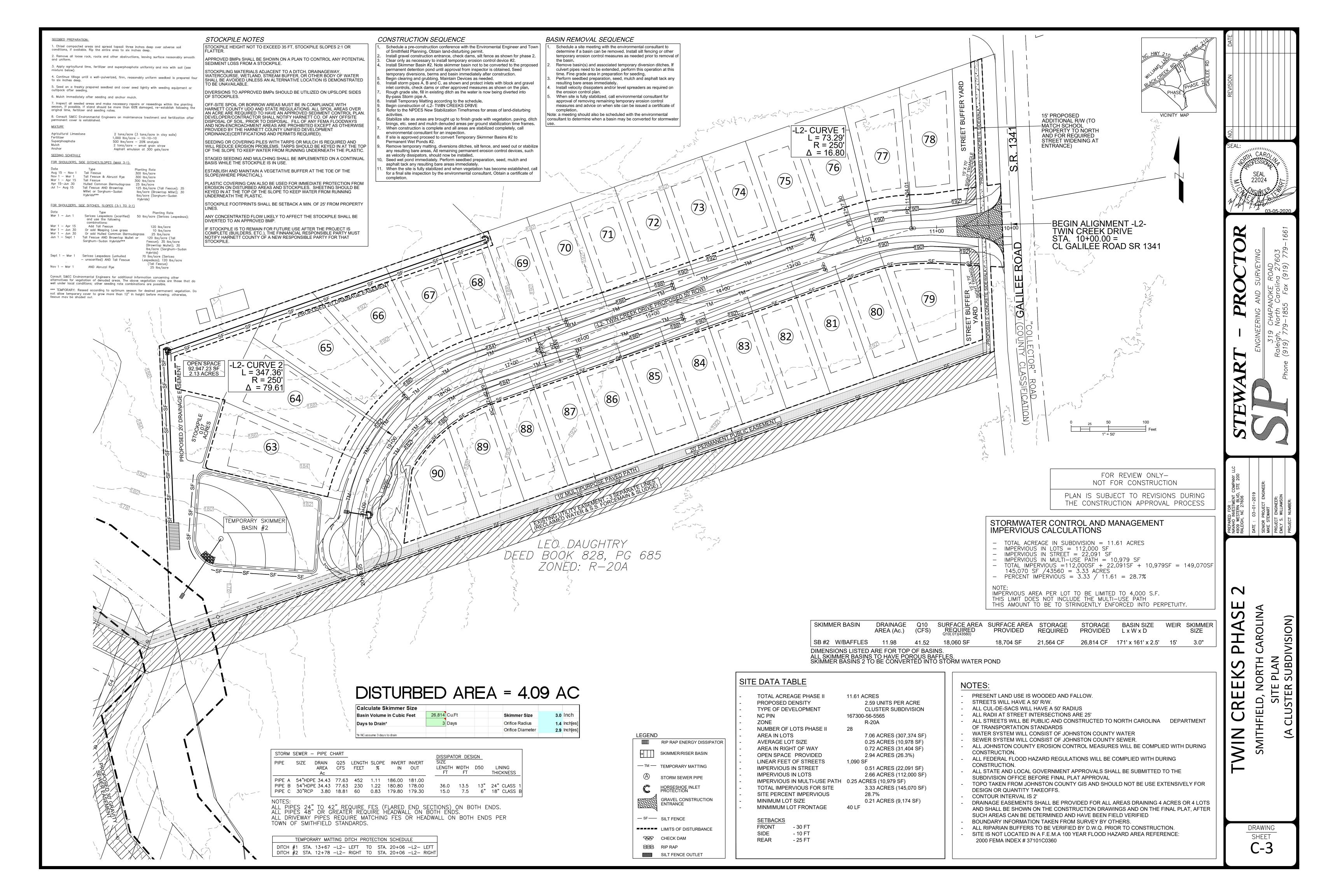
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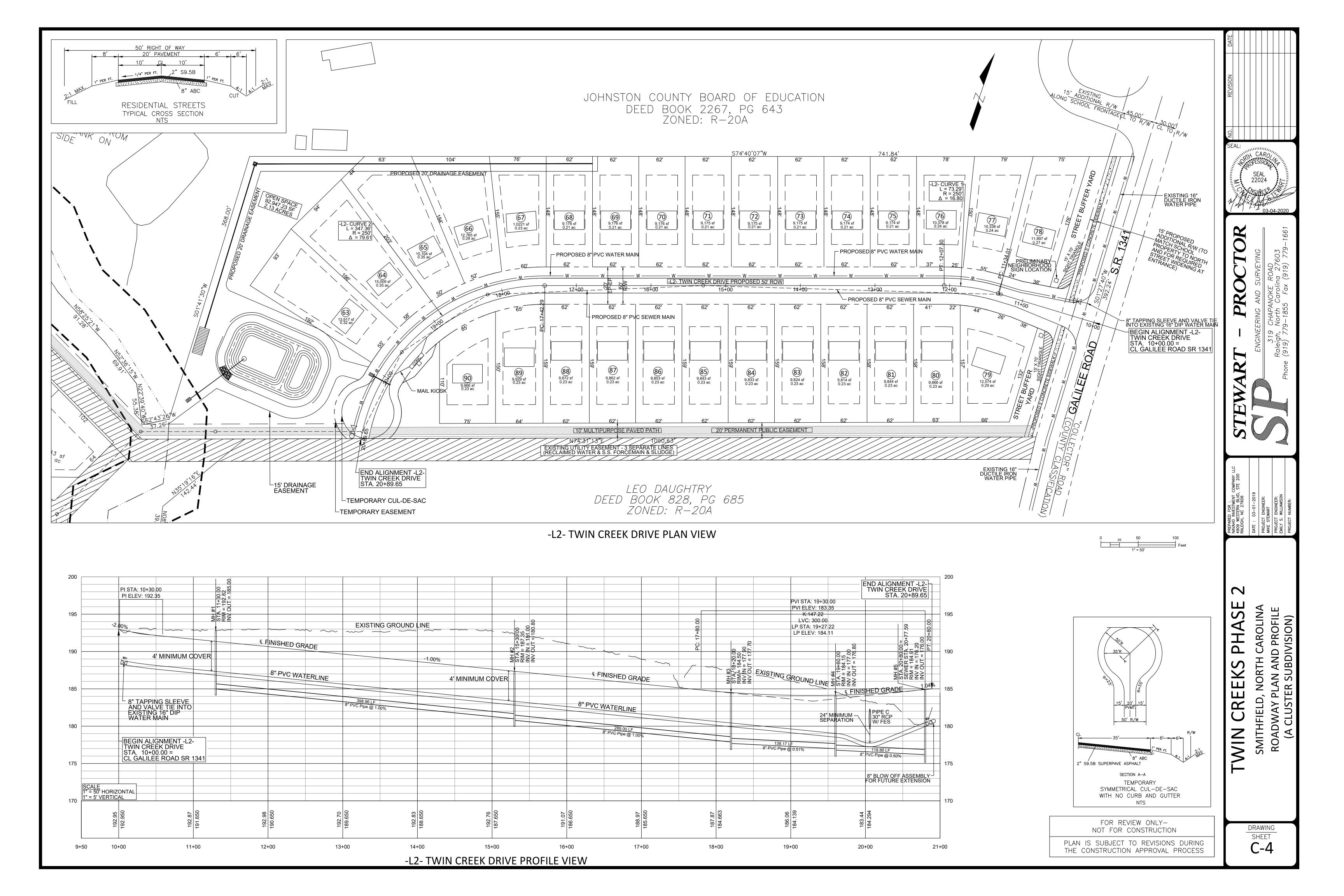
PLAN IS SUBJECT TO REVISIONS DURING THE CONSTRUCTION APPROVAL PROCESS

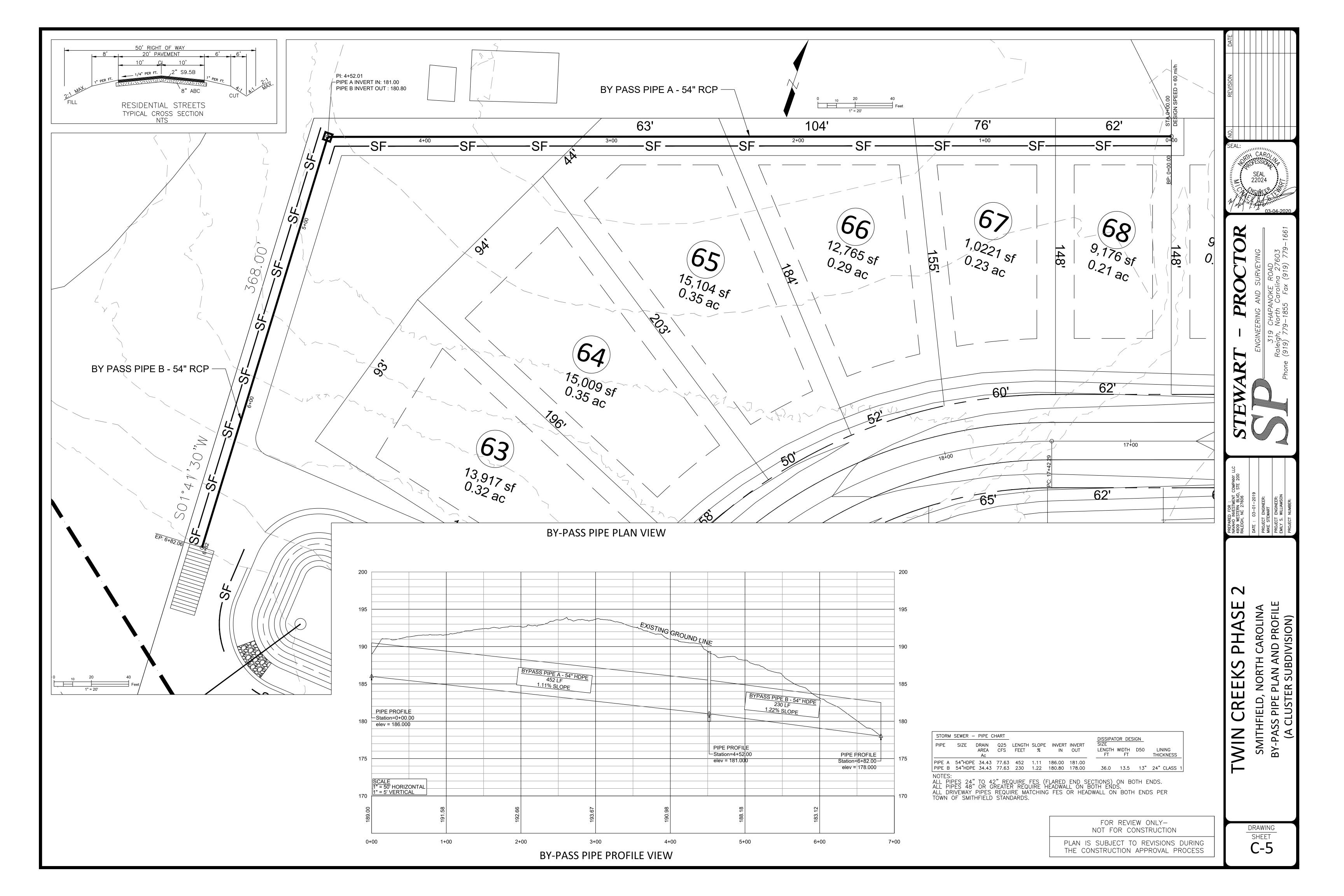
SHEET C-1

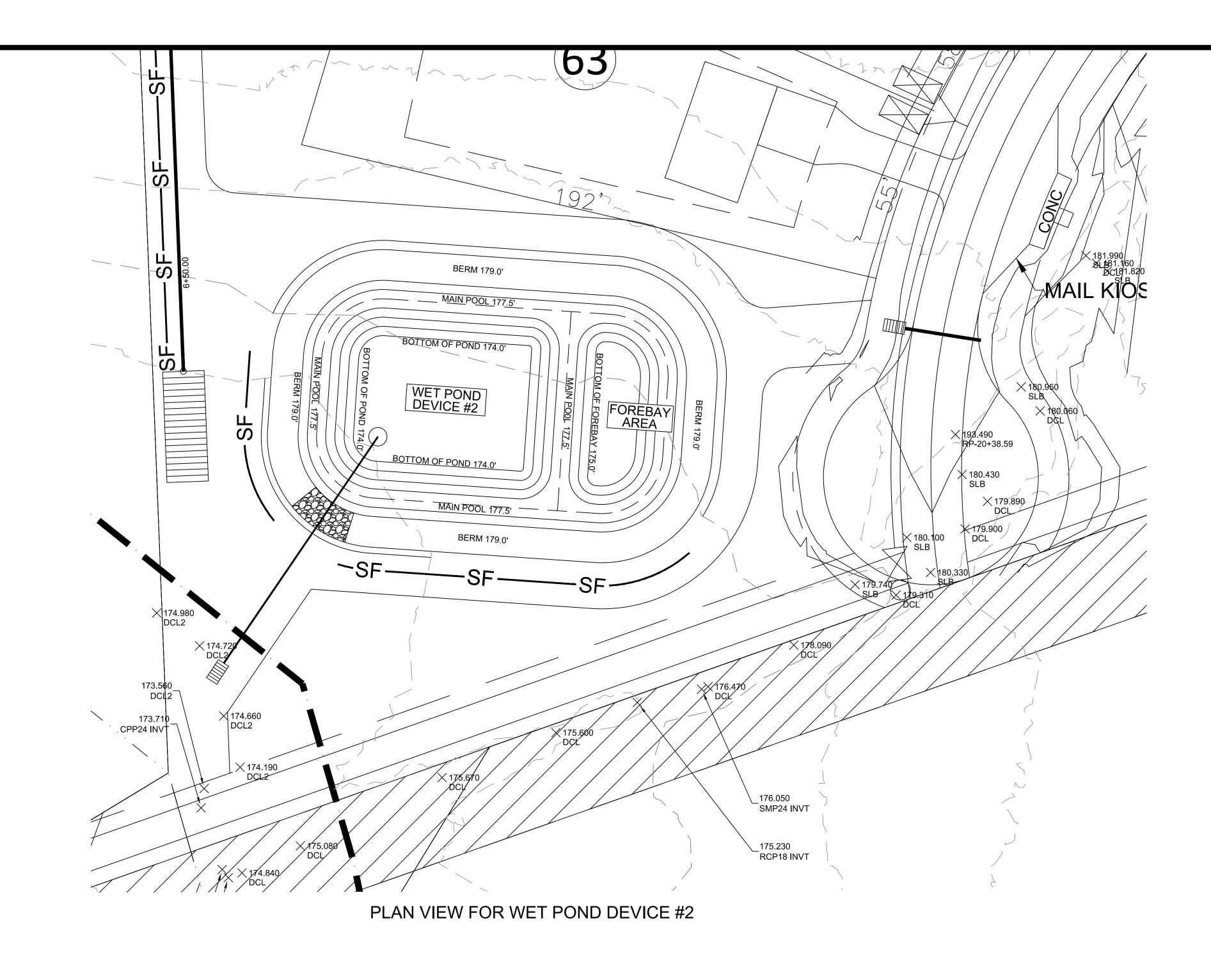












REQUIRED LANDSCAPING FOR STORMWATER POND 1:

LANDSCAPING FOR VEGETATED SHELF:
REQUIREMENT: PLANT A MINIMUM OF 3 DIVERSE SPECIES OF
SHALLOW WATER EMERGENT AND SHALLOW LAND HERBACEOUS

REQUIRED LANDSCAPING:

VEGETATED SHELF PLANTS = 50 PLANTS PER 200 SF OF

SHELF AREA = 3,246 SF/200 SF = 17 X 50 = 850 PLANTS

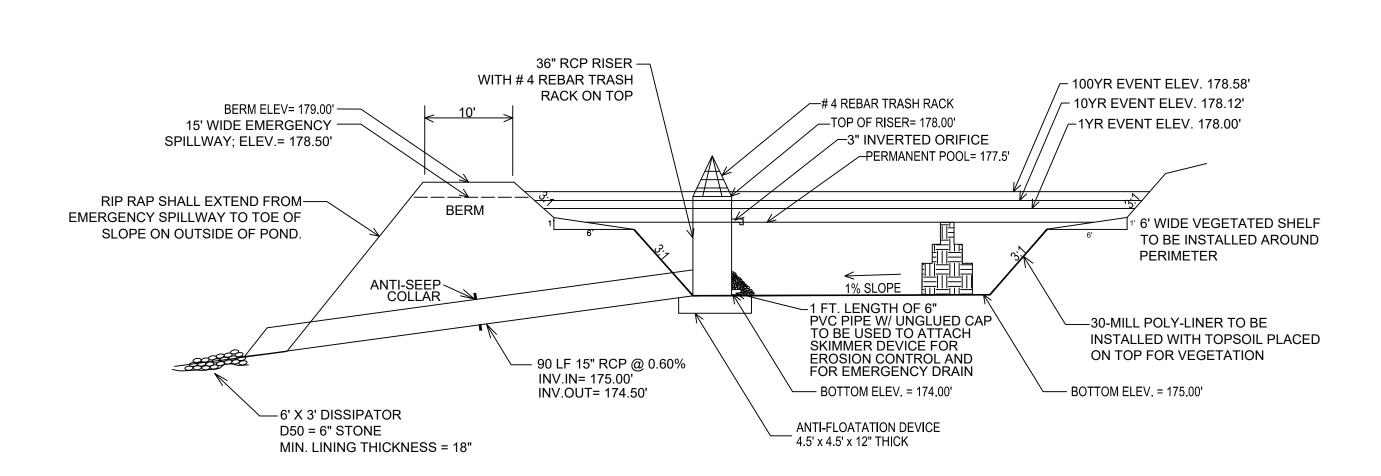
VEGETATED SHELF PLANTS = 852 PLANTS

LANDSCAPING FOR BERM AND SIDE SLOPES: CENTIPEDE GRASS TO BE PLANTED ON TOP OF BERM AND EXTERIOR SLOPES OF CONTAINMENT BERM

# PLANT LIST VEGETATED SHELF

COMMON	SIZE	QUAN.	REMARKS
HYDROLEA QUADRIVALVIS	4 CUBIC- INCH CONTAINER	142	1.5' O.C. IN STAGGERED ROWS
PRIMROSE WILLOW LUDWIGIA SPP.	4 CUBIC- INCH CONTAINER	142	1.5' O.C. IN STAGGERED ROWS
ARROW ARUM PELTANDRA VIRGINICA	4 CUBIC- INCH CONTAINER	142	1.5' O.C. IN STAGGERED ROWS
SWAMP MILKWEED ASCLEPIAS INCARNATA	4 CUBIC- INCH CONTAINER	142	3' O.C. IN STAGGERED ROWS
WHITE TURTLEHEAD CHELONE GLABRA	4 CUBIC- INCH CONTAINER	142	3' O.C. IN STAGGERED ROWS
JOE PYE WEED EUPATORIADELPHUS FISTULOSUS	4 CUBIC- INCH CONTAINER	142	3' O.C. IN STAGGERED ROWS

NOTE: PLANTS LISTED IN TABLE OR EQUAL TO BE USED FOR VEGETATED SHELF



PROFILE VIEW FOR DEVICE #1

NTS

FOR REVIEW ONLY— NOT FOR CONSTRUCTION

PLAN IS SUBJECT TO REVISIONS DURING THE CONSTRUCTION APPROVAL PROCESS

SHEET C-6

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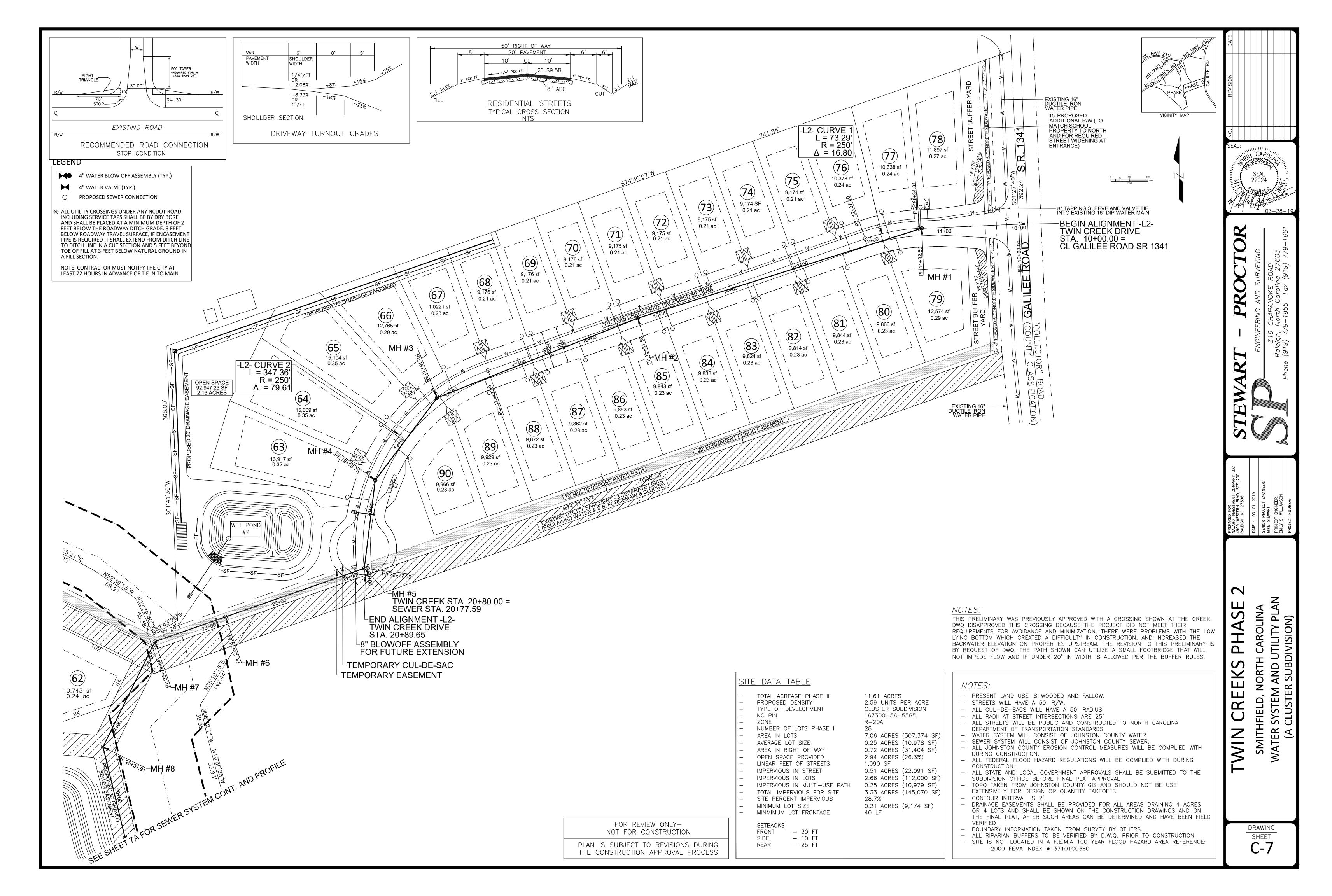
**PHASE** 

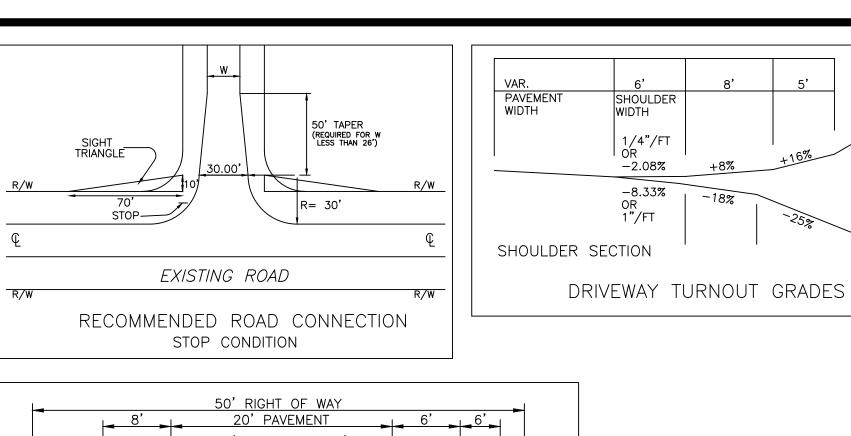
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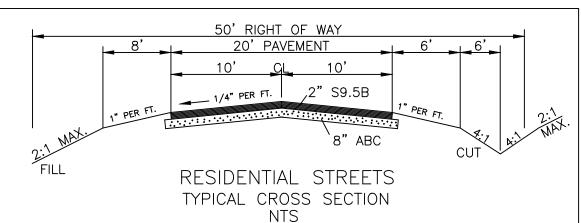
NIW.

SMITHFIELD, NORTH CAROLINA WET DETENTION POND (A CLUSTER SUBDIVISION)

**PROC** 







21+00

22+00

23+00

24+00

### **LEGEND**

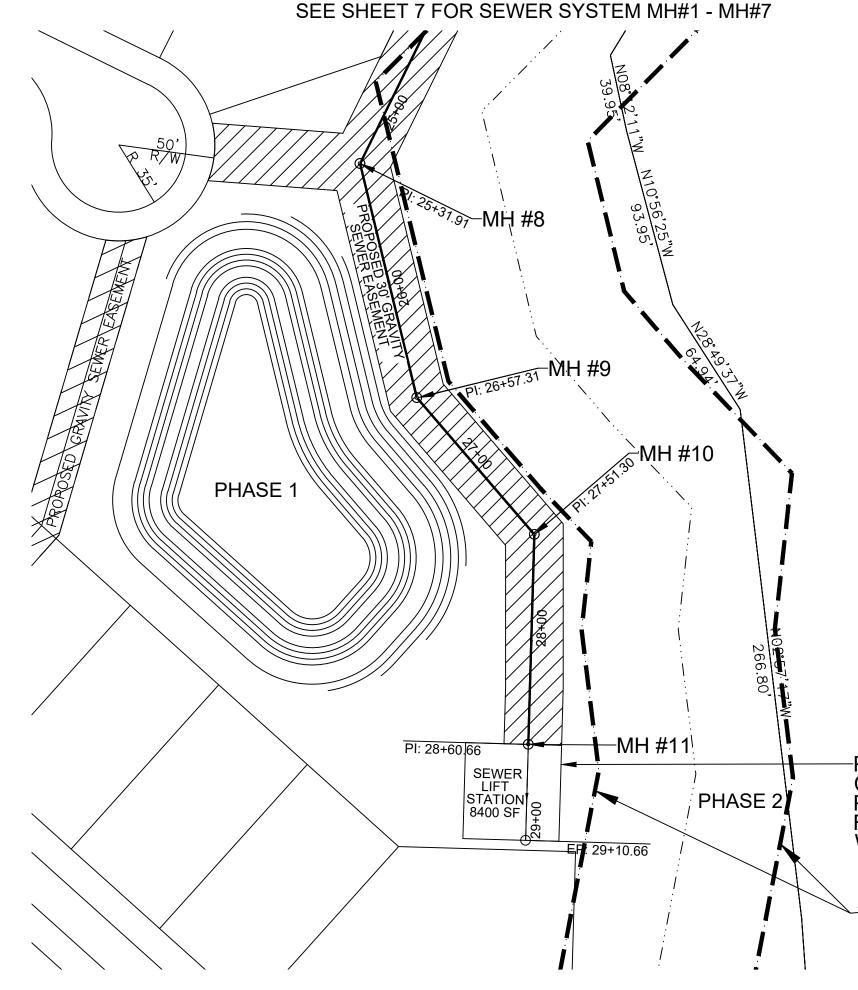
4" WATER BLOW OFF ASSEMBLY (TYP.)

4" WATER VALVE (TYP.)

PROPOSED SEWER CONNECTION

\* ALL UTILITY CROSSINGS UNDER ANY NCDOT ROAD INCLUDING SERVICE TAPS SHALL BE BY DRY BORE AND SHALL BE PLACED AT A MINIMUM DEPTH OF 2 FEET BELOW THE ROADWAY DITCH GRADE. 3 FEET BELOW ROADWAY TRAVEL SURFACE, IF ENCASEMENT PIPE IS REQUIRED IT SHALL EXTEND FROM DITCH LINE TO DITCH LINE IN A CUT SECTION AND 5 FEET BEYOND TOE OF FILL AT 3 FEET BELOW NATURAL GROUND IN A FILL SECTION.

NOTE: CONTRACTOR MUST NOTIFY THE CITY AT LEAST 72 HOURS IN ADVANCE OF TIE IN TO MAIN.



27+00

26+00

28+00

29+00

30+00

PROPOSED SEWER LIFT STATION TO BE CONSTRUCTED IN PHASE 1 PRIOR TO PHASE 2 CONSTRUCTION FINAL LOCATION TO BE COORDINATED WITH SMITHFIELD PUBLIC UTILITIES

100' NEUSE RIVER RIPARIAN BUFFER MEASURED 50' FROM TOP OF BANK ON EACH SIDE

# MATCH LINE PF MH #5 STA. 20+80.00 = STA. 20+77.5 SEWER STA. 20+77.5 RIM = 184.91 RIN = 176.00 RIN OUT = 176.00 AN Si M #8 WER \$TA. 25 1 = 180.85 IN = 169.70 OUT = 169.5 MH #10 SEWER STA. 27 RIM = 179.63 INV IN = 168.10 INV OUT = 167.9 SEWER NV = 18 MH #7 SEWER STA. 23-RIM = 177.91 INV IN = 170.70 INV OUT = 470.5 SEWER STA. SEWER STA. RIM = 178.26 INV IN = 173.7 197.05 LF 8" PVC Pipe @ 1.1 157.27 LF 8" PVC Pipe @ 0.51% 100.00 LF 8" PVC Pipe @ 0.56% 8" DUCTILE IRON Pipe @ 0.50% 1 8" PVC Pipe @ 0.53% 109.36 LF 8" C900 Pipe @ 0.55% SCALE 1" = 50' HORIZONTAL 1" = 5' VERTICAL

25+00

PROFILE FOR SEWER SYSTEM MH#5 TO PROPOSED PHASE 1 SEWER LIFT STATION



TOTAL ACREAGE PHASE II PROPOSED DENSITY TYPE OF DEVELOPMENT

NC PIN ZONE

NUMBER OF LOTS PHASE II AREA IN LOTS

AVERAGE LOT SIZE AREA IN RIGHT OF WAY

OPEN SPACE PROVIDED LINEAR FEET OF STREETS

IMPERVIOUS IN STREET IMPERVIOUS IN LOTS

IMPERVIOUS IN MULTI-USE PATH TOTAL IMPERVIOUS FOR SITE SITE PERCENT IMPERVIOUS

MINIMUM LOT SIZE MINMIMUM LOT FRONTAGE

<u>SETBACKS</u> FRONT - 30 FT SIDE REAR - 10 FT – 25 FT

11.61 ACRES 2.59 UNITS PER ACRE CLUSTER SUBDIVISION 167300-56-5565 R-20A

7.06 ACRES (307,374 SF) 0.25 ACRES (10,978 SF) 0.72 ACRES (31,404 SF) 2.94 ACRES (26.3%)

1,090 SF 0.51 ACRES (22,091 SF) 2.66 ACRES (112,000 SF) 0.25 ACRES (10,979 SF) 3.33 ACRES (145,070 SF)

0.21 ACRES (9,174 SF) 40 LF

28.7%

FOR REVIEW ONLY-

NOT FOR CONSTRUCTION PLAN IS SUBJECT TO REVISIONS DURING THE CONSTRUCTION APPROVAL PROCESS

- PRESENT LAND USE IS WOODED AND FALLOW.

- STREETS WILL HAVE A 50' R/W. - ALL CUL-DE-SACS WILL HAVE A 50' RADIUS

- ALL RADII AT STREET INTERSECTIONS ARE 25' - ALL STREETS WILL BE PUBLIC AND CONSTRUCTED TO NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION STANDARDS - WATER SYSTEM WILL CONSIST OF JOHNSTON COUNTY WATER

- SEWER SYSTEM WILL CONSIST OF JOHNSTON COUNTY SEWER. - ALL JOHNSTON COUNTY EROSION CONTROL MEASURES WILL BE COMPLIED WITH

DURING CONSTRUCTION. - ALL FEDERAL FLOOD HAZARD REGULATIONS WILL BE COMPLIED WITH DURING

CONSTRUCTION. - ALL STATE AND LOCAL GOVERNMENT APPROVALS SHALL BE SUBMITTED TO THE

SUBDIVISION OFFICE BEFORE FINAL PLAT APPROVAL - TOPO TAKEN FROM JOHNSTON COUNTY GIS AND SHOULD NOT BE USE

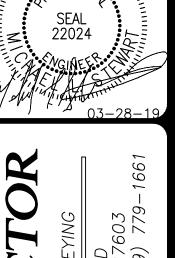
EXTENSIVELY FOR DESIGN OR QUANTITY TAKEOFFS. CONTOUR INTERVAL IS 2' - DRAINAGE EASEMENTS SHALL BE PROVIDED FOR ALL AREAS DRAINING 4 ACRES OR 4 LOTS AND SHALL BE SHOWN ON THE CONSTRUCTION DRAWINGS AND ON THE FINAL PLAT, AFTER SUCH AREAS CAN BE DETERMINED AND HAVE BEEN FIELD

- BOUNDARY INFORMATION TAKEN FROM SURVEY BY OTHERS.

- ALL RIPARIAN BUFFERS TO BE VERIFIED BY D.W.Q. PRIOR TO CONSTRUCTION. - SITE IS NOT LOCATED IN A F.E.M.A 100 YEAR FLOOD HAZARD AREA REFERENCE: 2000 FEMA INDEX # 37101C0360

I CAROLINA ILITY PLANS IVISION) PHA S CRE NIW.

> DRAWING SHEET C-7A



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NORTH

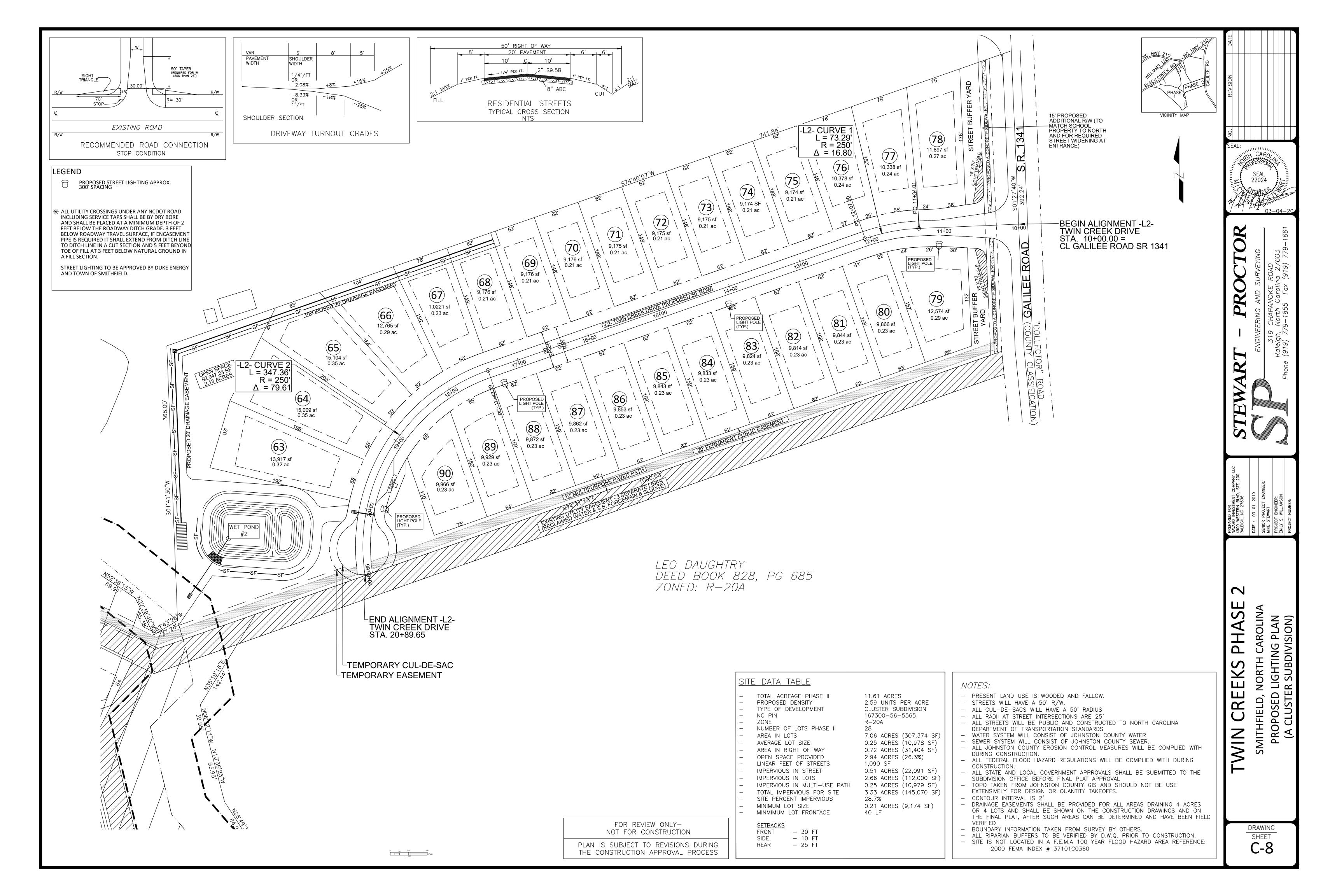
SMITHFIELD,

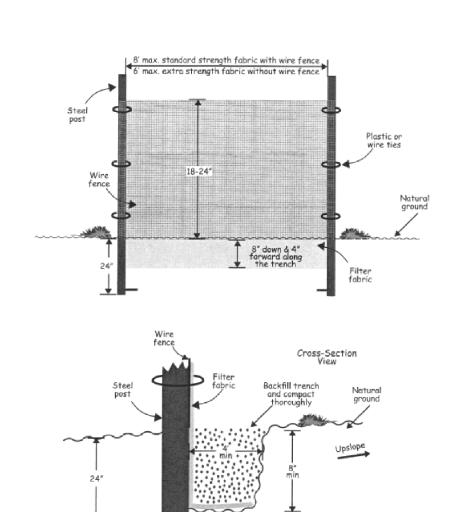
TILIT

AND UTER SUBI

SYSTEM A CLUSTE

WATER





Maintenance Inspect sediment fences at least once a week and after each rainfall. Make any

Should the fabric of a sediment fence collapse, tear, decompose or become ineffective, replace it promptly.

Remove sediment deposits as necessary to provide adequate storage volume for the next rain and to reduce pressure on the fence. Take care to avoid undermining the fence during cleanout

Remove all fencing materials and unstable sediment deposits and bring the area to grade and stabilize it after the contributing drainage area has been

Installation 1. The base of both end posts should be at least one foot higher than the middle of the fence. Check with a level if necessary Specifications 1 2. Install posts 4 feet apart in critical areas and 6 feet apart on standard

3. Install posts 2 feet deep on the downstream side of the silt fence, and as close as possible to the fabric, enabling posts to support the fabric from

with each puncture at least 1 inch vertically apart. Also, each tie should be

upstream water pressure. 4. Install posts with the nipples facing away from the silt fabric. 5. Attach the fabric to each post with three ties, all spaced within the top 8 inches of the fabric. Attach each tie diagonally 45 degrees through the fabric.

positioned to hang on a post nipple when tightened to prevent sagging.

6. Wrap approximately 6 inches of fabric around the end posts and secure

7. No more than 24 inches of a 36 inch fabric is allowed above ground 8. The installation should be checked and corrected for any deviations before

9. Compaction is vitally important for effective results. Compact the soil immediately next to the silt fence fabric with the front wheel of the tractor. skid steer, or roller exerting at least 60 pounds per square inch. Compact the

upstream side first, and then each side twice for a total of 4 trips.

Cross-Section View Figure 6.83b Stone check dam stone should be placed over the channel banks to keep water from cutting around the Maintenance Inspect check dams and channels at least weekly and after each significant (1/2 inch or greater) rainfall event and repair immediately. Clean out sediment, straw, limbs, or other debris that could clog the channel when needed. Anticipate submergence and deposition above the check dam and erosion from high flows around the edges of the dam. Correct all damage immediately. If

12" of NCDOT #5 or #57

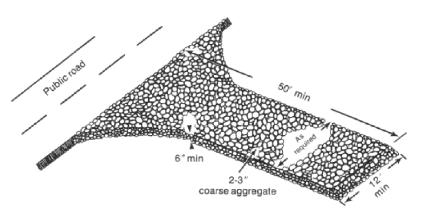
Plan View

(Practice 6.31, Riprap-line and Paved Channels). Remove sediment accumulated behind the dams as needed to prevent damage to channel vegetation, allow the channel to drain through the stone check dam and prevent large flows from carrying sediment over the dam. Add stones to

significant erosion occurs between dams, additional measures can be taken

such as, installing a protective riprap liner in that portion of the channel

### dams as needed to maintain design height and cross section. ROCK CHECK DAM



Washing-If conditions at the site are such that most of the mud and sediment are not removed by vehicles traveling over the gravel, the tires should be washed. Washing should be done on an area stabilized with crushed stone that drains into a sediment trap or other suitable disposal area. A wash rack may also be used to make washing more convenient and effective.

Construction 1. Clear the entrance and exit area of all vegetation, roots, and other Specifications objectionable material and properly grade it. Place the gravel to the specific grade and dimensions shown on the plans,

> 3. Provide drainage to carry water to a sediment trap or other suitable 4. Use geotextile fabrics because they improve stability of the foundation in

Maintenance Maintain the gravel pad in a condition to prevent mud or sediment from leaving the construction site. This may require periodic topdressing with 2inch stone. After each rainfall, inspect any structure used to trap sediment and clean it out as necessary. Immediately remove all objectionable materials

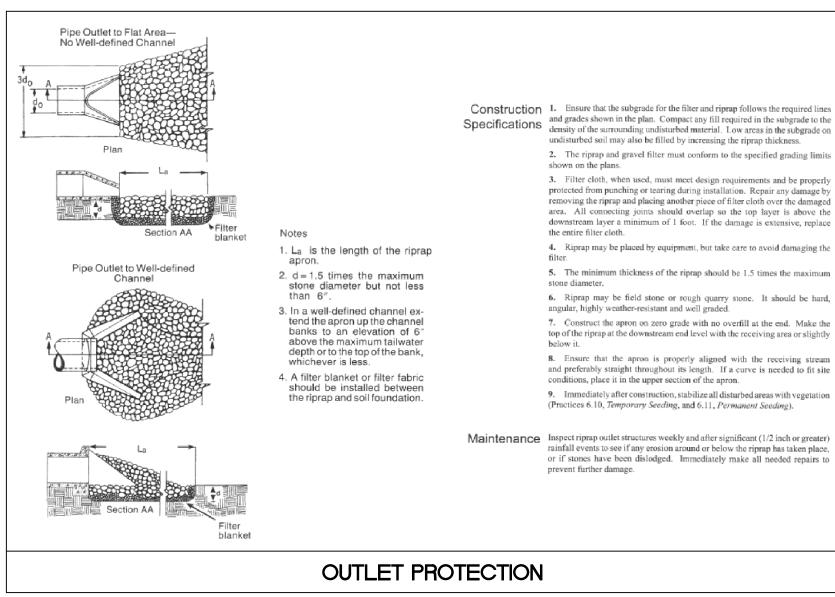
spilled, washed, or tracked onto public roadways.

locations subject to seepage or high water table.

## CONSTRUCTION ENTRANCE

SILT FENCE

NCDENR/Division of Water Quality		PDES Stormwater Discharge Permit for Construction Activities (NCGO1)					
NEW STABILIZATION TIMEFRAMES (Effective Aug. 3, 2011)							
ME EXCEPTIONS	ILIZATION	AREA DESCRIPTION					
	days Nor	er dikes, swales, ditches, slopes					
	days Nor	ality Water (HQW) Zones					
or less in length and are 2:1, 14 days are allowed.		teeper than 3:1					
greater than 50' in length.	4 days 7 days	:1 or flatter					
perimeters and HQW Zones	4 days Nor	areas with slopes flatter than 4:1	<u>\</u>				
	4 days Nor	areas with slopes flatter than 4:1					



ROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT plementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the

delegated authority having jurisdiction. All details and specifications shown on this sheet

may not apply depending on site conditions and the delegated authority having jurisdiction. SECTION E: GROUND STABILIZATION

Site Area Description		Stabilize within this many calendar days after ceasing land disturbance	s Timeframe variations	
(a)	Perimeter dikes, swales, ditches, and perimeter slopes	7	None	
(b)	High Quality Water (HQW) Zones	7	None	
(c)	Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed	
(d)	Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed	
(e)	Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zone: -10 days for Falls Lake Watershed unless there is zero slope	

ground stabilization shall be converted to permanent ground stabilization as soon as racticable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

### GROUND STABILIZATION SPECIFICATION Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the

Temporary Stabilization Temporary grass seed covered with straw or
 Permanent grass seed covered with straw or other mulches and tackifiers other mulches and tackifiers Rolled erosion control products with or without temporary grass seed Hydroseeding Appropriately applied straw or other mulch Shrubs or other permanent plantings covered

 Uniform and evenly distributed ground cove sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed

reinforcement matting

Permanent Stabilization

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.

Apply flocculants at or before the inlets to Erosion and Sediment Control Measure Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.

Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures

Provide ponding area for containment of treated Stormwater before discharging

EQUIPMENT AND VEHICLE MAINTENANCE

Maintain vehicles and equipment to prevent discharge of fluids. Provide drip pans under any stored equipment

Identify leaks and repair as soon as feasible, or remove leaking equipment from the Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).

Remove leaking vehicles and construction equipment from service until the problem

has been corrected. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

waters unless no other alternatives are reasonably available.

Never bury or burn waste. Place litter and debris in approved waste containers Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes. Locate waste containers at least 50 feet away from storm drain inlets and surface

Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.

Anchor all lightweight items in waste containers during times of high winds. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow. Dispose waste off-site at an approved disposal facility.

On business days, clean up and dispose of waste in designated waste containers.

### PAINT AND OTHER LIQUID WASTE Do not dump paint and other liquid waste into storm drains, streams or wetlands.

Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available. Contain liquid wastes in a controlled area.

Containment must be labeled, sized and placed appropriately for the needs of site. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.

Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas. Monitor portable toilets for leaking and properly dispose of any leaked material.

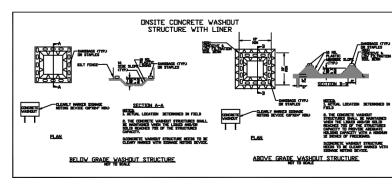
Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit. **EARTHEN STOCKPILE MANAGEMENT** 

five feet from the toe of stockpile.

Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably Protect stockpile with silt fence installed along toe of slope with a minimum offset of

Provide stable stone access point when feasible Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is define as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

> NORTH CAROLINA **B** Environmental Quality



### CONCRETE WASHOUTS

Do not discharge concrete or cement slurry from the site. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility. Manage washout from mortar mixers in accordance with the above item and in

addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two

types of temporary concrete washouts provided on this detail.

sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive

Do not use concrete washouts for dewatering or storing defective curb or sidewalk

spills or overflow. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.

Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.

. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

### HERBICIDES, PESTICIDES AND RODENTICIDES Store and apply herbicides, pesticides and rodenticides in accordance with labe

Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.

Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately. Do not stockpile these materials onsite.

### AZARDOUS AND TOXIC WASTE

Create designated hazardous waste collection areas on-site. Place hazardous waste containers under cover or in secondary containment.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

| EFFECTIVE: 04/01/19

### SELF-INSPECTION, RECORDKEEPING AND REPORTING SELF-INSPECTION, RECORDKEEPING AND REPORTING SECTION A: SELF-INSPECTION SECTION B: RECORDKEEPING Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection The approved E&SC plan as well as any approved deviation shall be kept on the site. The rsonnel to be in jeopardy, the inspection may be delayed until the next business day o approved E&SC plan must be kept up-to-date throughout the coverage under this permit. which it is safe to perform the inspection. In addition, when a storm event of equal to or The following items pertaining to the E&SC plan shall be kept on site and available for greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be inspection at all times during normal business hours performed upon the commencement of the next business day. Any time when inspection were delayed shall be noted in the Inspection Record. Item to Document nd does not significantly deviate from the of the approved E&SC plan or complete, date cations, dimensions and relative elevations | and sign an inspection report that lists each E&SC measure shown on the approved E&SC nown on the approved E&SC plan. plan. This documentation is required upon the nitial installation of the E&SC measures or if the E&SC measures are modified after initial

spect	Frequency (during normal	Inspection records must include:	(a) Each E&SC measure has been installed and does not significantly deviate from the	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date
) Rain gauge aintained in ood working der	business hours) Daily	Daily rainfall amounts.  If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unstended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as	locations, dimensions and relative elevations shown on the approved E&SC plan.	and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
) E&SC easures	At least once per 7 calendar days and within 24	"zero." The permittee may use another rain-monitoring device approved by the Division.  1. Identification of the measures inspected,  2. Date and time of the inspection,  3. Name of the person performing the inspection,	(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
) Stormwater	hours of a rain event ≥ 1.0 inch in 24 hours At least once per	4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.  1. Identification of the discharge outfalls inspected,	(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
scharge utfalls (SDCs)	hours of a rain event ≥ 1.0 inch in 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration,	(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.	
) Perimeter of te	At least once per 7 calendar days and within 24	days of the following shall be made: 24 1. Actions taken to clean up or stabilize the sediment that has left	(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.
) Streams or etlands onsite offsite where ccessible) ) Ground abilization easures	hours of a rain event ≥ 1.0 inch in 24 hours At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours After each phase of grading	the site limits,  2. Description, evidence, and date of corrective actions taken, and  3. An explanation as to the actions taken to control future releases.  If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made:  1. Description, evidence and date of corrective actions taken, and  2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.  1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover).  2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as	site and available for inspectors at all time Division provides a site-specific exemptior this requirement not practical:  (a) This General Permit as well as the Cer  (b) Records of inspections made during the record the required observations on to Division or a similar inspection form the position of the province of	bove, the following items shall be kept on the during normal business hours, unless the based on unique site conditions that make tificate of Coverage, after it is received. The previous twelve months. The permittees he Inspection Record Form provided by the nat includes all the required elements. Use a of the required paper copies will be allowed illity as the hard-copy records.
		soon as possible.		fears I inspection records shall be maintained for

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

record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

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

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

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

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items, (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,

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

(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include

properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems, (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above, (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and

### SECTION C: REPORTING L. Occurrences that Must be Reported Permittees shall report the following occurrences:

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

• They are 25 gallons or more, • They are less than 25 gallons but cannot be cleaned up within 24 hours, They cause sheen on surface waters (regardless of volume), or

• They are within 100 feet of surface waters (regardless of volume). Releases of hazardous substances in excess of reportable quantities under Section 311

of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA

(d) Anticipated bypasses and unanticipated bypasses

(Ref: 40 CFR 302.4) or G.S. 143-215.85.

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

2. Reporting Timeframes and Other Requirements

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

Reporting Timeframes (After Discovery) and Other Requirements (a) Visible sediment • Within 24 hours, an oral or electronic notification. deposition in a Within 7 calendar days, a report that contains a description of the stream or wetland sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sedimentrelated causes, the permittee may be required to perform additiona monitoring, inspections or apply more stringent practices if staff

determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions. (b) Oil spills and Within 24 hours, an oral or electronic notification. The notification release of shall include information about the date, time, nature, volume and substances per Item 1(b)-(c) above (c) Anticipated

case-by-case basis.

CFR 122.41(I)(7)]

A report at least ten days before the date of the bypass, if possible The report shall include an evaluation of the anticipated quality and 122.41(m)(3)] effect of the bypass. (d) Unanticipated Within 24 hours, an oral or electronic notificatio

prevent reoccurrence of the noncompliance, [40 CFR 122.41(I)(6).

Division staff may waive the requirement for a written report on a

 Within 7 calendar days, a report that includes an evaluation of the 122.41(m)(3)] quality and effect of the bypass. Within 24 hours, an oral or electronic notificatio with the conditions Within 7 calendar days, a report that contains a description of the of this permit that noncompliance, and its causes; the period of noncompliance, ncluding exact dates and times, and if the noncompliance has not health or the been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and

NORTH CAROLINA Environmental Quality

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/1

FOR REVIEW ONLY-NOT FOR CONSTRUCTION

PLAN IS SUBJECT TO REVISIONS DURING THE CONSTRUCTION APPROVAL PROCESS



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