

REQUEST FOR BOARD ACTION

HENDERSON COUNTY PLANNING BOARD

MEETING DATE: January 19, 2023

SUBJECT: Revised Master and Phase III Development Plan for Sprout Mountain (Formerly Rich Mountain) Major Subdivision (2021-M09)

PRESENTER: Matt Champion, Zoning Administrator

ATTACHMENTS:

1. Staff Report
2. Original Combined Master & Phase I Development Plan
3. Revised Master & Phase III Development Plan
4. PowerPoint Handouts

SUMMARY OF REQUEST:

A Revised Master Plan and Phase III Development Plan was received on behalf of Ripple Falls LLC, by John Kinnaird of Brooks Engineering on December 15, 2022. The revised Master Plan shows an additional 23 single-family lots in Phase III for a total of 83 lots. The subject area is located north of Locust Grove Baptist Church off Locust Grove Road (SR 1528) in Hoopers Creek Township. The site consists of 377.96 acres and is accessed through New Sprout Ln.

PLANNING BOARD ACTION REQUESTED:

Staff has found that the Revised Master and Phase III Development Plan meets the standards of the subdivision regulations of Chapter 42, Henderson County Land Development Code (LDC). Staff recommends the Revised Master and Phase III Development Plan be subject to the developer addressing any issues raised by the Planning Board and addressing the comments listed in the Staff Report.

Planning Board action to approve, approve with modifications, or deny revised subdivision application #2021-M09 (Revised Master & Phase III Development Plan for Sprout (Rich) Mountain)

Suggested Motion:

I move that the Planning Board approve, approve with modification, or deny this revised subdivision application based on the Henderson County Land Development Code and recommendations of the Henderson County Comprehensive Plan and with any conditions as discussed within the staff report or by the Planning Board.



STAFF REPORT

HENDERSON COUNTY PLANNING DEPARTMENT

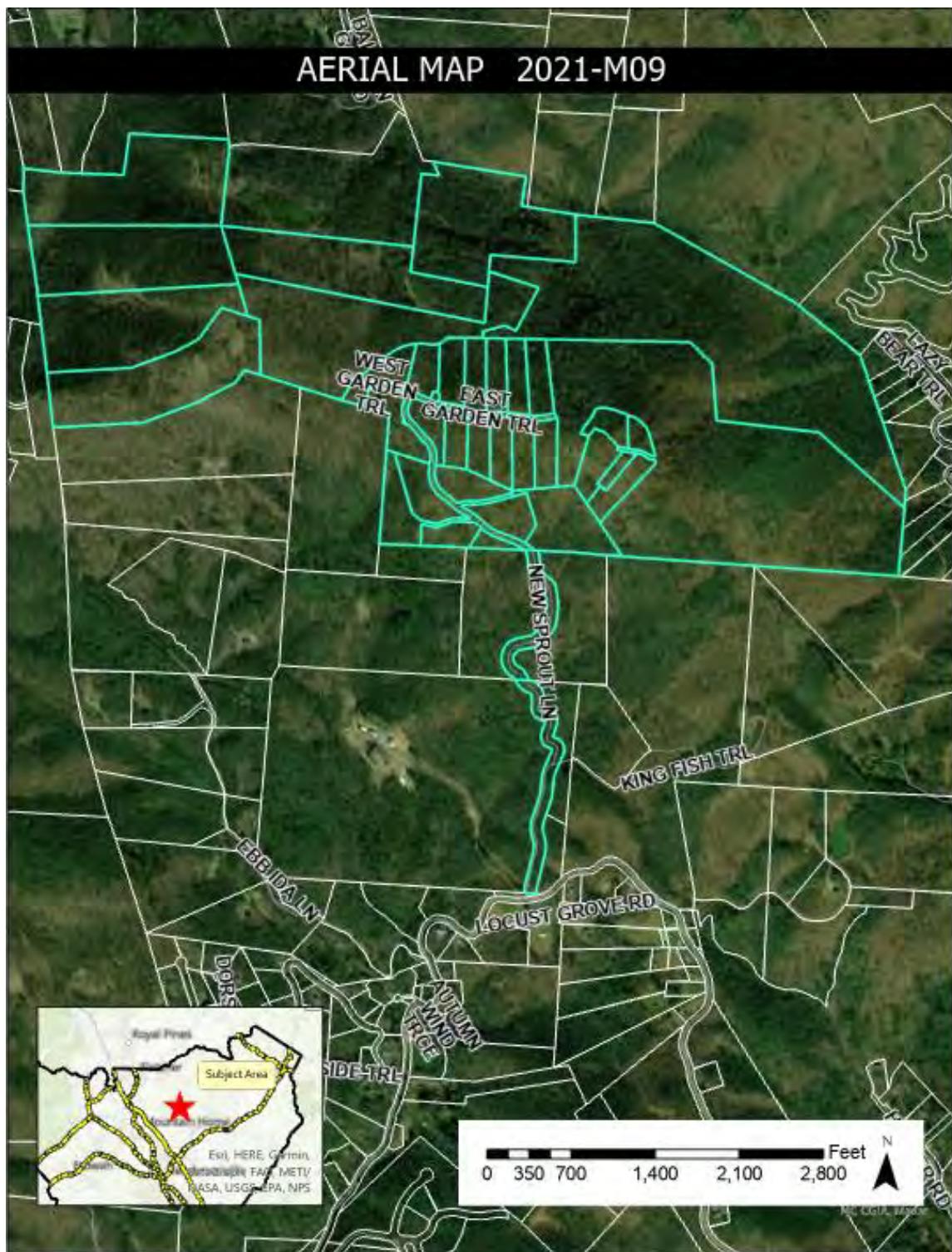
100 North King Street | Hendersonville, NC 28792 | (828) 697-4819

Prepared by:
Henderson County Planning & Zoning Departments

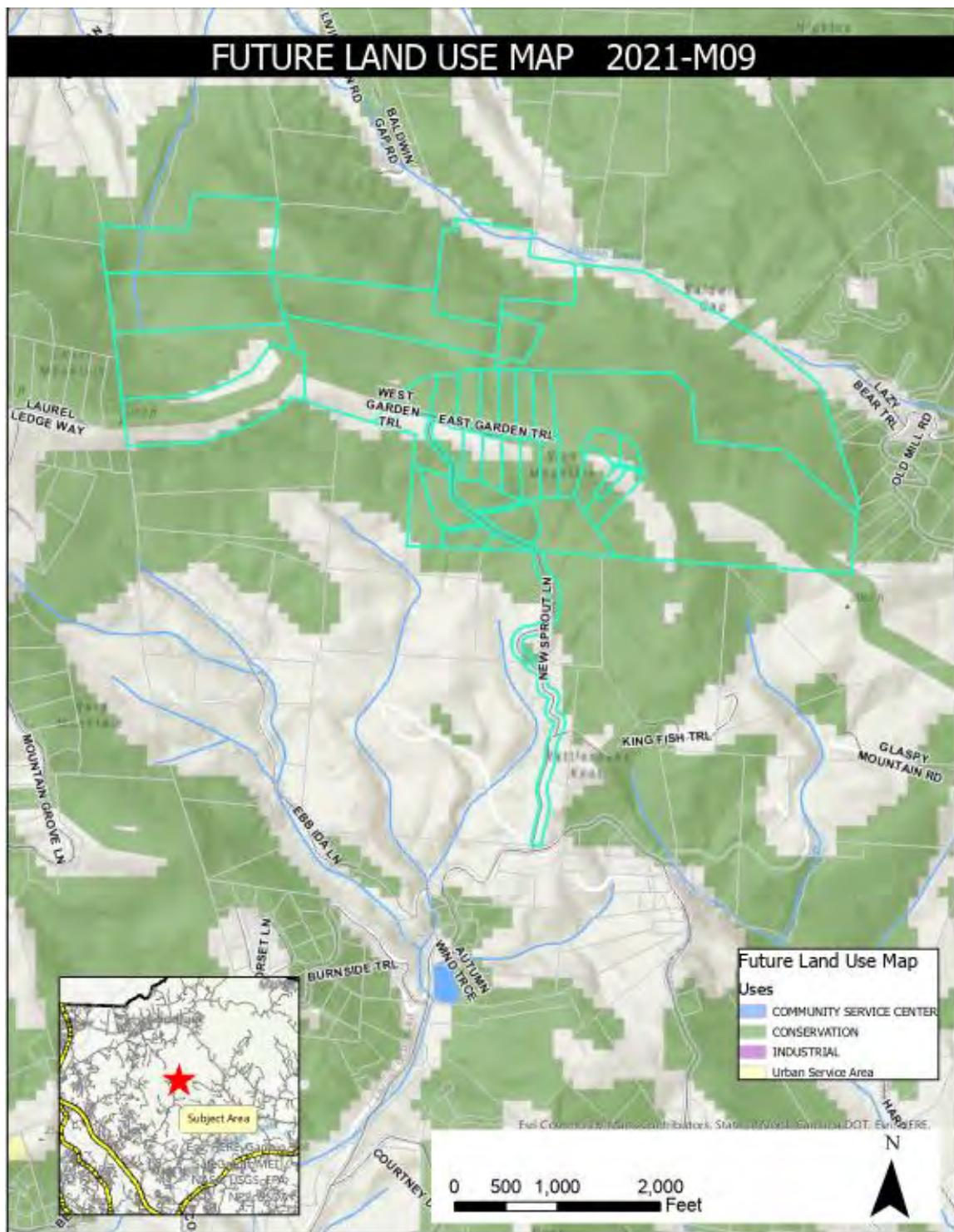
CASE	PLANNING BOARD MEETING DATE
2021-M09 Revised Master Plan & Phase III Development Plan	January 19, 2022
PROPERTY OWNER/APPLICANT	PROPERTY LOCATION/ADDRESS
Ripple Falls LLC	North of Locust Grove Road (SR 1528), off New Sprout Lane, Hoopers Creek Township
AGENT/ENGINEER	PIN(s)
John Kinnaird, PE & Zachary Wortman, EIT Brooks Engineering	9672-53-0112, 9672-32-9718, 9672-32-9259, 9672-22-0858, 9672-23-1444, 9672-22-0353, 9672-21-2880
SUMMARY OF REQUEST	An application for a Revised Master Plan and the Phase III Development Plan, for Sprout Mountain (formerly Rich Mountain) Major Subdivision, consisting of a revised total of 83 lots located at the above PIN(s), with 23 lots proposed in Phase III.
Existing Zoning	Residential District Three (R3)
Existing Land Use	Rural Agricultural Area / Conservation
Site Improvements	Paved Roads
Request Acreage	377.96 acres, +/-

ADJACENT ZONING		USE OF LAND
North	Residential District Three (R3)	Vacant Land
East	Residential District Three (R3)	Vacant Land
South	Residential District Three (R3)	Locust Grove Baptist Church
West	Residential District Three (R3)	Vacant Land/Couch Mountain

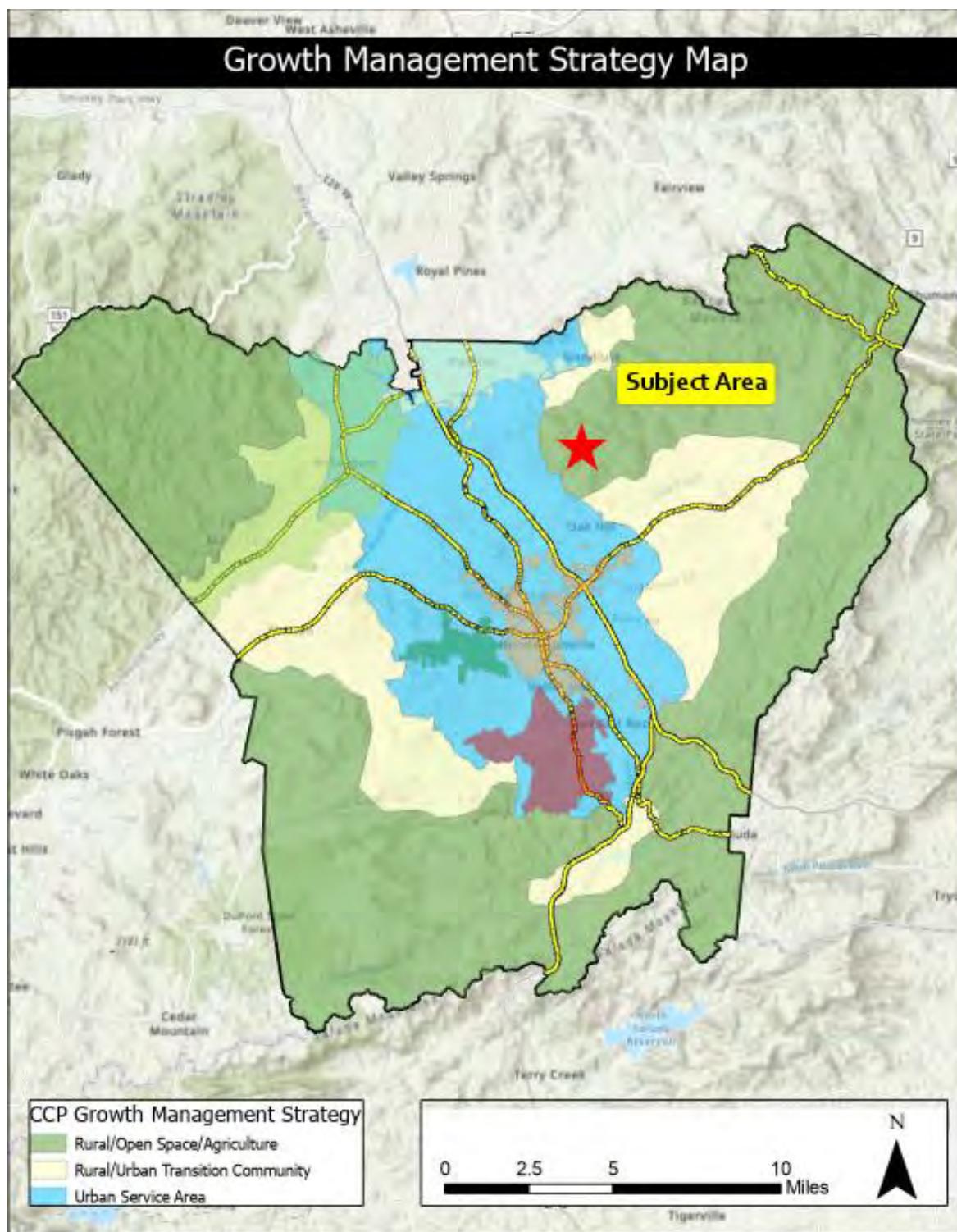
Map A: Aerial Map



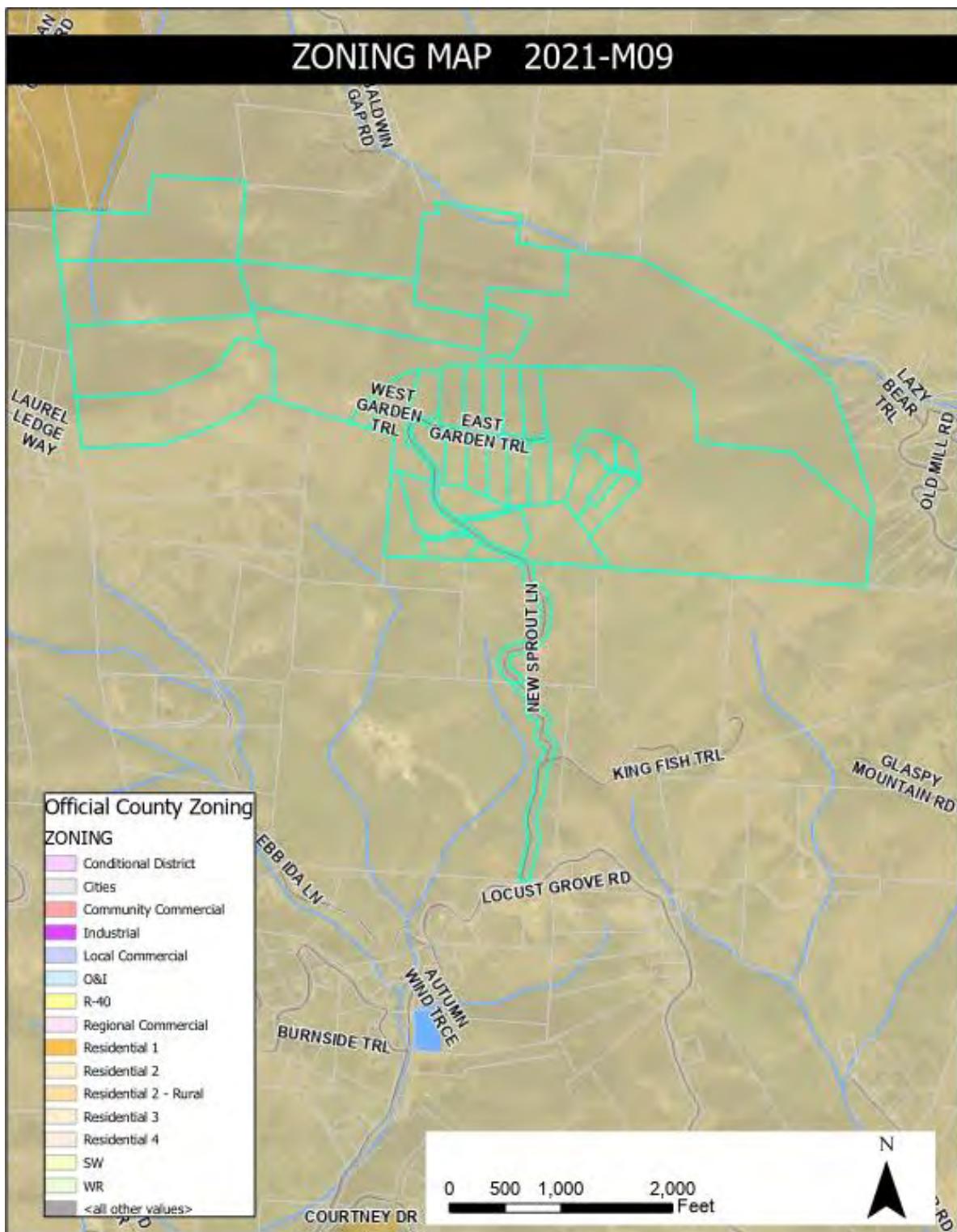
Map B: Future Land Use Map



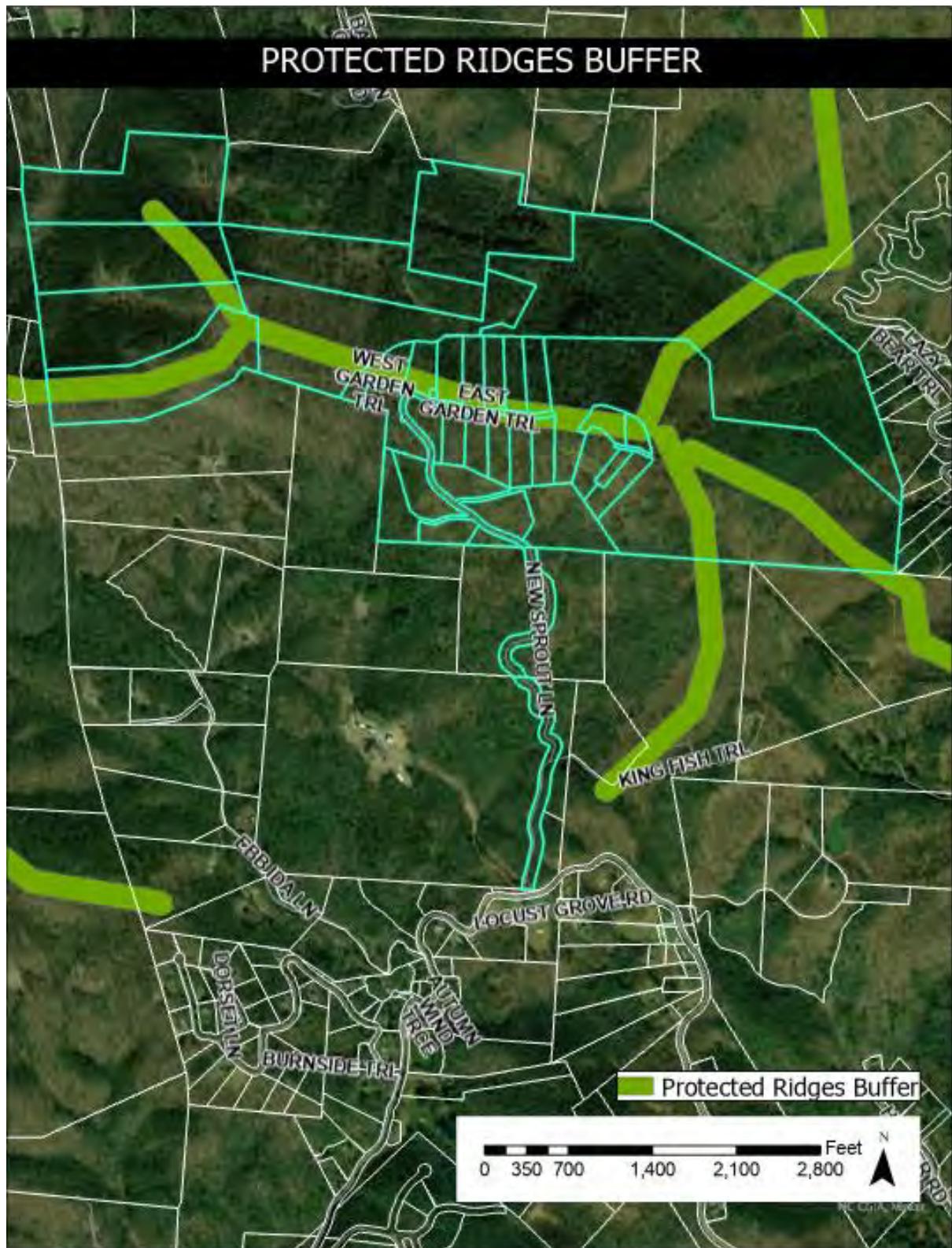
Map C: Growth Management Strategy Map



Map D: Zoning Map



Map E: Protected Ridges Buffer



BACKGROUND:

The applicant, Ripple Falls LLC, is seeking approval for a Revised Master Plan and a Phase III Development Plan for the Major Subdivision titled Sprout Mountain. The project was formally known and approved under the name Rich Mountain. The applicant is represented by their engineers, John Kinnaird and Zachary Wortman of Brooks Engineering.

Planning Board first approved the Master Plan and Phase 1 Development Plan on at their regularly scheduled meeting on December 16, 2021. The applicant was approved for 60 total lots on the master plan, with development identified in 3 total phases. The total project acreage was 245.86 acres at the time. Phase 1 approved 22 lots on 82.78 acres. The Phase 2 Development Plan was approved administratively on May 26, 2022, with 31 lots on 146 acres.

Now, the applicant has submitted a revised Master and Phase 3 Development Plan, detailing an expanded project with 23 additional lots on a proposed Phase 3. Phase 3 will extend west on West Garden Trail, onto property acquired by the applicant in April of 2022.

ANALYSIS:

According to Chapter 42, Henderson County Land Development Code (LDC) §42-340, the purpose of a Master Plan is to provide general information about the proposed development to allow for an assessment of its impact on the orderly growth and development of the County, environmental quality, land values, natural features identified on the site analysis sketch and the County's roads and governmental services. During the review of the Master Plan, the Technical Review Committee should take into consideration: applicable recommendations of the *Henderson County Comprehensive Plan*, the potential use of the land to be subdivided, and the impact of the subdivision and proposed use whether residential, commercial, or industrial.

When reviewing the Master Plan, it is important to consider that due to severe topographic conditions, inadequate road access, distance from services, unique natural areas, soils that do not easily support soil drainage systems and/or the proximity to existing and incompatible land uses/zoning, all land may not be suitable to be subdivided for the purpose of dense development (LDC §42-74).

According to Chapter 42 of the Henderson County LDC, §42-341, the purpose of Development Plans is to provide general and specific information, displayed as a graphic representation or map, indicating all proposed divisions of land, their uses, improvements, and any other information required to fully disclose the applicant's intentions.

When reviewing the Development Plan, it is important to consider that it conforms with the Master Plan, no additional lots are created (other than indicated on the Master Plan), and all technical requirements and development standards have been met.

Staff has reviewed the submitted Combined Revised Master and Phase 3 Development Plan for the Sprout Mountain Major Subdivision, taking into consideration the recommendations of the *Henderson County Comprehensive Plan* and reviewing the plan for conformance with Henderson County Land Development Code. Staff offers the following comments:

Comprehensive Plan Compatibility:

The Comprehensive Plan's Future Land Use Map indicates the subject area as being located primarily with the Rural/Agriculture Area and a small portion within the Conservation Area.

Rural/Agriculture Area: "The RAA covers those portions of the county that are predominantly rural and are characterized by low-density residential development with substantial land areas devoted to agriculture and undeveloped lands. Land use policies will seek to retain that character. Land development ordinances in the RAA should strive for a general, average density of 1½ or more acres per residential dwelling unit, but due to topography and land use constraints, some areas in the RAA should have densities of 1 unit per 5 or more acres. Actual densities as defined by zoning requirements should vary across the RAA according to constraints and community characteristics." (CCP, Pg 136.)

Conservation: Conservation Areas are "land areas that are intended to remain largely in their natural state, with only limited development." (CCP, Pg. 138)

The Comprehensive Plan's Growth Management Strategy Area also indicates the subject area as within the Rural/Agriculture Area.

Henderson County Land Development Code Compatibility:

Henderson County Zoning Map indicates the subject area as Residential District Three (R3).

Residential District Three (R3): The purpose of Residential District Three (R3) is to foster orderly growth where the principal use of land is low density residential. The intent of this district is to allow for residential development consistent with the recommendations of the Comprehensive Plan. This general use district is typically meant to be utilized in areas designated as Rural (RAA) in the Comprehensive Plan.

R3 allows for standard residential density of 1 unit per 1.5 acres. The proposed master and development plan shows 83 single family lots on a total site area of 377.96 acres. This is below the allowed threshold of 1 unit per 1.5 acres at a density of 0.22 lots per

acre. The proposed use and density do not appear to conflict with the zoning district regulations.

Chapter 42-95 (Major Subdivision) Requirements:

1. **Water Supply and Sewage Disposal:** The site is proposed to be served by private, individual water and septic systems.
2. **Fire Protection:** 42-95(D) requires a minimum of one (1) hydrant per 1000 feet of linear road distance (if served by a public water supply system who may impose more stringent fire protection requirements where necessary), or a dry fire hydrant system and all-weather access road for fire-fighting equipment to a permanent surface water supply.
3. **Stormwater Drainage:** Drainage systems (swales, ditches, pipes, culverts, detention ponds, lakes, or similar devices) shall be designed to minimize adverse effect on the proposed subdivision and on adjacent and downstream properties. Drainage improvements shall be designed and constructed in accordance with applicable State Road Standards and to follow natural drainage where possible, contain points of stormwater discharge onsite (unless offsite discharge is approved by the reviewing agency and adjoining property owners), maintain desirable groundwater conditions, minimize erosion, downstream sedimentation, flooding or standing water conditions, filter pollutants before stormwater reaches surface water, and avoid excessive stormwater discharge.
4. **Farmland Preservation Districts:** As indicated on the plans, Lots 1-51 and 83 are within a Farmland Preservation District, and Lots 52-82 are within a ½ mile or adjacent to the district. There is a 100' setback from structures adjacent to a Farmland Preservation District that must be observed by any lots adjacent to the district.
 - a. The applicant has indicated their intention of removing the subject area from the current Voluntary Agricultural District (VAD). A portion of the property is located within the Lower Hoopers Creek VAD. The applicant will need to work with the Soil & Water Conservation District to be removed from the VAD.
5. **Reasonable Pedestrian Access:** Reasonable pedestrian access must be provided to promote healthy and safe walking environments. As the proposed major subdivision does not contain 100 or more lots or propose a density of greater than 2 units per acre, sidewalks within the subdivision are not required.
6. **Street Tree Requirements:** Article V, Subpart C of the LDC requires Street Trees for Major Subdivisions, at a rate of either 1 large deciduous tree per 40 linear feet of property abutting an internal road, or 1 small deciduous tree per 40 linear feet of property abutting an internal road if overhead utilities are present.

- a. These trees must be within the right-of-way or within 20' of the right-of-way. The applicant may use existing trees in accordance with 42-184 and must also meet the right-of-way standards.
- b. With 4,415 new feet of internal roadway as indicated on the Phase 3 Development Plan, 111 street trees are required, or must be shown as to be preserved ($4,415/40 = 110.375$). The applicant may use existing trees in accordance with LDC §42-184 instead of planting new trees. These existing trees must also be located within the right-of-way or 20 feet off the edge of the right-of-way as required by LDC §42-185.

Miscellaneous Requirements:

1. **Protected Mountain Ridges:** The project site is encumbered by the protected mountain ridges buffer. Section §42-251 of the LDC regulates the construction and permitting of "tall buildings" within the protected ridge buffer.

"Tall buildings or structures" include any building, structure or unit within a multiunit building with a vertical height of more than 40 feet measured from the top of the foundation of said building, structure or unit and the uppermost point of said building, structure or unit; provided, however, that where such foundation measured from the natural finished grade of the crest or the natural finished grade of the high side of the slope of a ridge exceeds 3 feet, then such measurement in excess of 3 feet shall be included in the 40-foot limitation described herein; provided, further, that no such building, structure or unit shall protrude at its uppermost point above the crest of the ridge by more than 35 feet.

2. **Open Space Requirements:** As a subdivision of greater than 35 lots, the application must meet the requirements of 42-88 as a Conservation Subdivision. The Master Plan indicates 154.75 acres (42%) as open space, exceeding the 25% requirement.
3. **Road System:** The applicant is proposing a total of 4,415 feet of new private roadway, with West Garden Trail extending westward. There are three (3) private driveway easements proposed off West Garden Trail, as shown on the roadway plans. All roads are indicated as to be paved, apart from gravel logging road. The driveway easement extending northward to access lots 81,82, and 83 will need a new road name that must be approved by the Henderson County Property Addresser prior to plat approval. The road name regulatory signs must be installed and inspected prior to plat approval. Private roads shall be constructed in accordance with the Private Subdivision Local Road Standards in Chapter 42 (LDC §42-109).
 - a. Subdivisions of 35 or more lots shall provide a minimum of two entrance roads. The second entrance road may be specifically waived by the approving authority where unique circumstances exist (LDC §42-95(I)).

4. **Dead Ends, Cul-de-sac, Turnarounds:** The Applicant proposes one new T-turnaround on West Garden Trail. All turnarounds must meet the requirements of the LDC §42-110(D).
5. **Perennial and Intermittent Surface Water Buffers:** The project site is encumbered by several perennial streams. Section §42-250 of the LDC regulates construction and permitting within the surface water buffer, requiring all built-upon area 30 feet landward of all perennial and intermittent surface waters.
6. **Soil Erosion and Sedimentation Control Plan:** The Applicant must submit a revised Soil Erosion and Sedimentation Control Plan to Henderson County and receive approval or waived by Henderson County Site Development (LDC §42-255).
7. **Stormwater/Water Quality:** The Applicant must apply for a revised Stormwater Management Permit to Henderson County, which must be issued or waived by Henderson County Site Development (LDC §42-239).
8. **Drainage, Culverts, Shoulder Stabilization:** Road or drainage structures shall be constructed in accordance with state roads standards. Road drainage side ditches shall be constructed with sufficient depth and width to carry the expected volume of storm water runoff (LDC §42-105). All areas disturbed by the construction of a public road, including cut and fill slopes, shoulders, and ditch banks, shall be seeded to stabilize the soil and prevent erosion. Seeding should be done as soon as feasible after road construction (LDC §42-102).
9. **Miscellaneous Advisory Provisions:** The Applicant should become familiar with the Miscellaneous Advisory Provisions of Chapter 42 (LDC §42-87).
10. **Final Plat Requirements:** The Final Plat(s) must meet the requirements provided by the Planning Department whenever a subdivision of land occurs (LDC §42-342).
 - a. The proposed roadways and road name and regulatory signs will be inspected prior to Final Plat approval.
11. **NCDOT Driveway Permit.** A NCDOT Driveway permit was issued for New Sprout Lane's access to Locust Grove Road (SR for each driveway access onto Howard Gap Road (SR 1528). No further NCDOT driveway permits are required.

Other County Departments or agencies may have additional comments or requirements that may be discussed at the scheduled Technical Review Committee meeting.

Any comments made by the Technical Review Committee will be passed along to the Planning Board at the regularly scheduled January 19th meeting.

STAFF CONCLUSION

Per Chapter 42 of the Henderson County Land Development Code LDC §42-338, the Planning Board is the final approval authority for this proposed Major Subdivision. Should the Technical Review Committee find no deficiencies with the current application, they may recommend forwarding the application to the Planning Board. The Planning Board may approve, approve with conditions, or deny the proposed Master and Development plan if it exhibits deficiencies or is not in compliance with any statute, ordinance, or regulation of the Henderson County Code of Ordinances.

HENDERSON COUNTY
SUBDIVISION APPLICATION FORM
(Please fill out all applicable items)

SUBDIVISION INFORMATION

Subdivision Name: Rich Mountain Subdivision

Subdivision Type (Circle One):	Major	<input checked="" type="radio"/> Minor	Non-Standard	Special
Proposed Use of Property (Circle One):	<input checked="" type="radio"/> Residential			
Conservation Subdivision:	Yes	<input checked="" type="radio"/> No	Gated entrance to property:	<input checked="" type="radio"/> Yes No
Existing Number of Lots:	14		Total Number of Proposed Lots:	83
Total Number Proposed Units:	83		Proposed Density (units per acre):	0.22
Road System:	() Public	(x) Private	() Combination Public and Private	
Water System:	(x) Individual	() Community	() Municipal	
Sewer System:	(x) Individual	() Community	() Municipal	

PARCEL INFORMATION

PIN: SEE PLANS Total Acreage: 377.96 Deed Book/Page: SEE PLANS Township _____
Location of property to be divided: The subject parcel is located North of Locust Grove Rd

Zoning District: R3	Fire District: HOPPERS CREEK
Water Supply Watershed: N/A	School District: NORTH HIGH

Any portion of property within or containing the following:

Floodplain or floodway:	Yes <input checked="" type="radio"/>	Perennial streams:	Yes <input checked="" type="radio"/>
Protected mountain ridges:	Yes <input checked="" type="radio"/>	Cemetery:	Yes <input checked="" type="radio"/>
Within ½ mile of a Farmland Preservation District:	<input checked="" type="radio"/>	No	<input checked="" type="radio"/>
Adjacent to a Farmland Preservation District:	<input checked="" type="radio"/>	No	<input checked="" type="radio"/>

CONTACT INFORMATION**Property Owner:**

Name: Ripple Falls LLC
Address: 69 Clark Gap Road

Phone: 616-402-0367
City, State, Zip: Fletcher, NC 28732

Applicant:

Name: Ripple Falls LLC
Address: 69 Clark Gap Road

Phone: 616-402-0367
City, State, Zip: Fletcher, NC 28732

Agent: Agent Form (Circle One): Yes No

Name: _____
Address: _____

Phone: _____
City, State, Zip: _____

Plan Preparer:

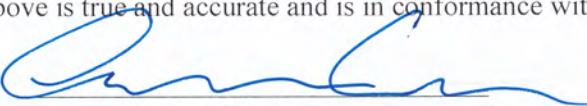
Name: John Kinnaird
Address: 15 Arlington Street

Phone: 828-232-4700
City, State, Zip: Asheville, NC 28801

I certify that the information shown above is true and accurate and is in conformance with the Subdivision regulations of Henderson County.

Andy Baker

Print Applicant (Owner or Agent)



Signature Applicant (Owner or Agent)

12/13/2022

Date

RICH MOUNTAIN PHASE 3

MAJOR SUBDIVISION

HENDERSON COUNTY

NOTES

SITE NOTES:

1. PROJECT ADDRESS: LOCUST GROVE ROAD, HENDERSONVILLE NC
2. TOTAL ACREAGE: 377.96 AC.
3. ZONING: R3
4. PROJECT PIN NUMBER(S): 9672530112, 9672329718, 9672329259, 9672220858, 9672231444, 9672220353, 9672212880
5. EXISTING TOPO INFO SHOWN WAS PROVIDED BY: BROOKS ENGINEERING ASSOCIATES
6. EXISTING BOUNDARY INFO PROVIDED BY: BROOKS ENGINEERING ASSOCIATES
7. FEMA FLOOD PANEL: 3700967200J, EFF. 10/02/2008
8. RECEIVING STREAM: DUNCAN CREEK (6-57-19-2), CLASS C, TR); FLYNN BRANCH (6-57-19-3, CLASS C, TR); FEATHER STONE CREEK (6-55-12, CLASS C)
9. SOIL TYPE(S): Ahf, AhG, Ede, Edf, PoE, PoF, PoG, TuE, TuF
10. DEED BOOK / PAGE: 3897/292, 3822/592
11. LATITUDE / LONGITUDE: 35.409521/-82.438765
12. DISTURBED ACREAGE: 6.45 AC.
13. EROSION CONTROL REVIEW: HENDERSON COUNTY
14. STORMWATER MANAGEMENT REVIEW: HENDERSON COUNTY

GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES AND SHALL BE RESPONSIBLE FOR THE REPAIR OF ALL DAMAGES WHICH OCCUR DURING CONSTRUCTION.
2. LOCATION OF ALL EXISTING UTILITIES, AS SHOWN HEREON, ARE APPROXIMATE ONLY. NO GUARANTEE IS MADE OR IMPLIED BY THE LOCATION REFLECTED IN THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE TYPE, SIZE AND LOCATION OF ALL UTILITIES AND OTHER FEATURES WHICH MAY AFFECT CONSTRUCTION OR THE INTENDED FUNCTION OF THE DESIGN. CONTRACTOR SHALL NOTIFY DESIGNER PRIOR TO CONSTRUCTION IF EXISTING CONDITIONS DIFFER FROM THAT INDICATED IN THE PLANS.
3. NO STREAM OR WETLAND DISTURBANCE SHALL OCCUR WITHOUT A ARMY CORPS OF ENGINEERS PERMIT.
4. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
5. ANY EXCESS CUT MATERIAL DEVELOPED IN THE CONSTRUCTION OF THIS SITE SHALL BE DISPOSED OF IN AN APPROPRIATELY PERMITTED SPOIL SITE. CONTRACTOR TO PROVIDE PROOF OF PERMITS PRIOR TO CONSTRUCTION.
6. ANY ALTERATION TO THE PLANS MUST BE APPROVED BY THE PROJECT ENGINEER, OR APPROPRIATE AGENCY PRIOR TO THE COMMENCEMENT OF WORK.
7. THE CONTRACTOR SHALL OBTAIN, AND PAY FOR, PRIOR TO BEGINNING ANY WORK, ALL PERMITS AND LICENSES NECESSARY TO ACCOMPLISH THE WORK.
8. CONTRACTOR(S) SHALL BE RESPONSIBLE FOR ADEQUATE SUPERVISION TO PREVENT DAMAGE AND MOVEMENT FROM EQUIPMENT WORKING AROUND CONSTRUCTION STAKES. THESE CONSTRUCTION STAKES SHALL REMAIN IN PLACE AND BE PROTECTED UNTIL OWNER APPROVES THEIR REMOVAL. ANY STAKES THAT HAVE BEEN DISPLACED AS A RESULT OF CONSTRUCTION ACTIVITY ARE TO BE REPLACED BY A LICENSED LAND SURVEYOR ENGAGED BY THE CONTRACTOR AT NO COST TO THE OWNER.
9. THE ENGINEER WILL NOT BE CONTINUOUSLY PRESENT IN THE FIELD, IT IS SPECIFICALLY UNDERSTOOD THAT HE DOES NOT UNDERTAKE NOR ASSUME ANY OBLIGATION FOR SUPERVISION OF CONSTRUCTION, SAFETY MEASURES TAKEN DURING THE COURSE OF CONSTRUCTION, RESPONSIBILITY FOR SCHEDULING THE WORK FOR INSURING COMPLETE COMPLIANCE WITH THE CONTRACT DOCUMENTS AND/OR ALL CODE REQUIREMENTS, RULES AND REGULATION OF ANY PUBLIC OR PRIVATE AUTHORITY HAVING JURISDICTION OVER THE WHOLE OR ANY PART OF THE WORK. IN ADDITION, THE ENGINEER NEITHER UNDERTAKES, ASSUMES, NOR GUARANTEES THE WORK AND/OR PERFORMANCE OF THE CONTRACTOR.

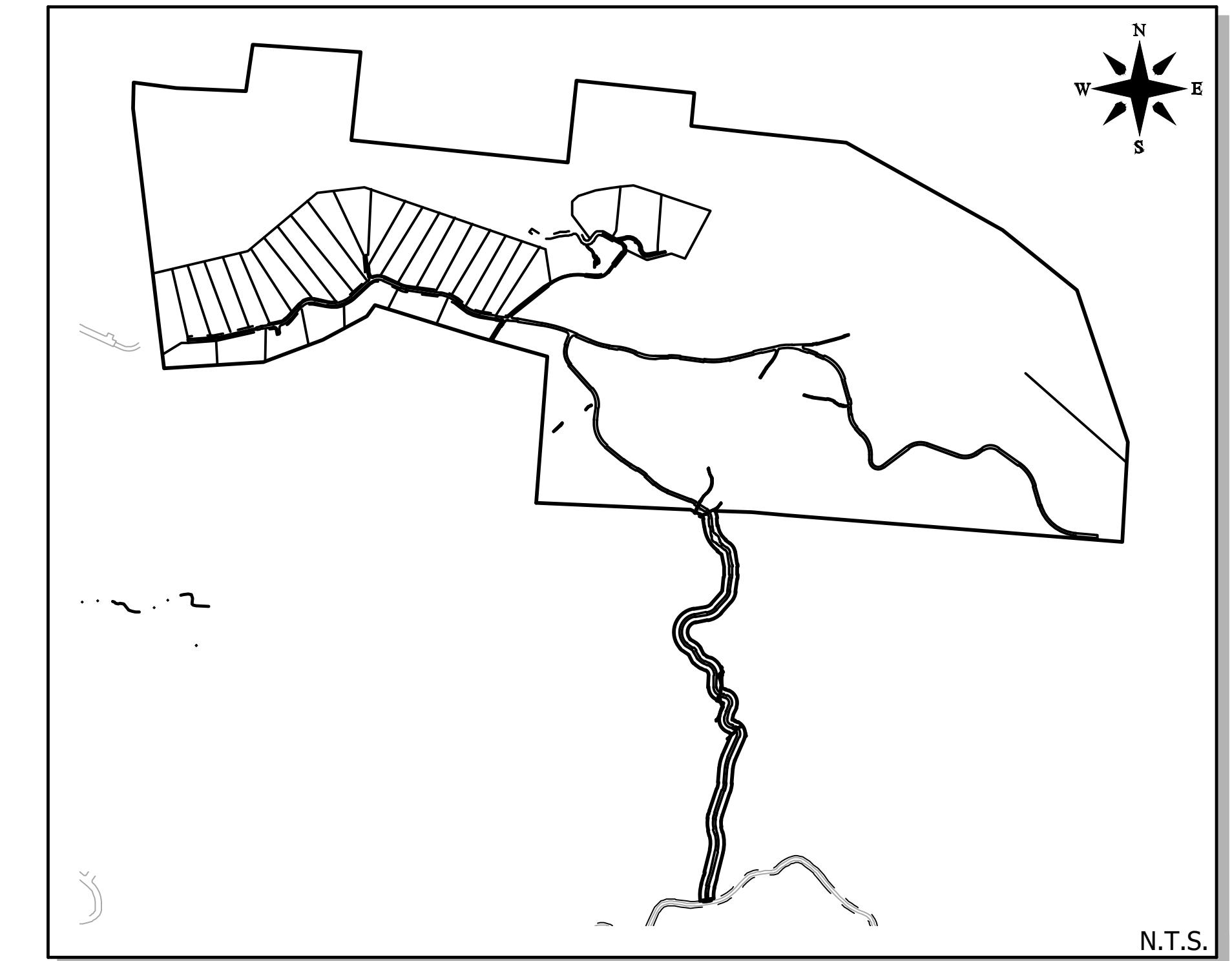
INSPECTION SCHEDULE:

1. NO CONSTRUCTION SHALL COMMENCE PRIOR TO A PRECONSTRUCTION MEETING WITH THE OWNER, THE CONTRACTOR, THE ENGINEER, AND A REPRESENTATIVE OF THE APPROVING JURISDICTION.
2. ALL SHOP DRAWINGS SHALL BE SUBMITTED AT OR PRIOR TO THE PRECONSTRUCTION MEETING.
3. ENGINEER TO BE CALLED FOR PERIODIC INSPECTIONS.
4. CALL ENGINEERING PRIOR TO COVERING UNDERGROUND STRUCTURES FOR FINAL INSPECTIONS.
5. REFER TO MANUFACTURER'S SPECIFICATION MANUAL AND STATE AND LOCAL STANDARDS FOR ADDITIONAL REQUIREMENTS AND STANDARDS.

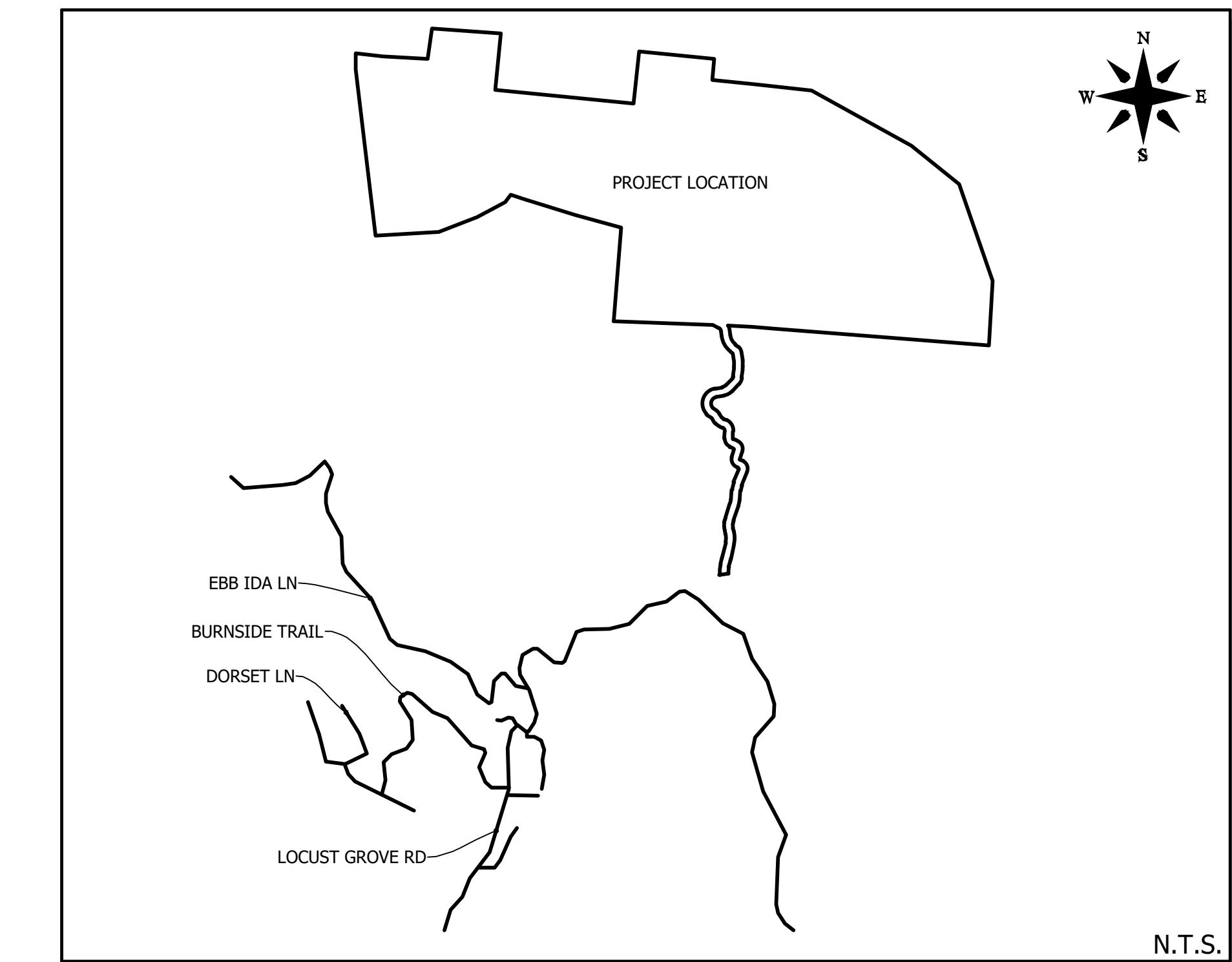


BEFORE YOU DIG !
CALL 811
N.C. ONE-CALL CENTER
IT'S THE LAW !

PROJECT MAP



VICINITY MAP



CONTACTS

DEVELOPER:

RIPPLE FALLS LLC

CONTACT INFO:

ANDY BAKER
ANDY@TFMCAROLINA.COM
(616) 402-0367
69 CLARK GAP ROAD
FLETCHER NC

OWNER:

RIPPLE FALLS LLC

CONTACT INFO:

ANDY BAKER
ANDY@TFMCAROLINA.COM
(616) 402-0367
69 CLARK GAP ROAD
FLETCHER NC

ENGINEER:

BROOKS ENGINEERING ASSOCIATES, PA

CONTACT INFO:

JOHN KINNAIRD, PE
JKINNAIRD@BROOKSEA.COM
828-232-4700
17 ARLINGTON STREET
ASHEVILLE, NC 28801

SURVEYOR:

BROOKS ENGINEERING ASSOCIATES

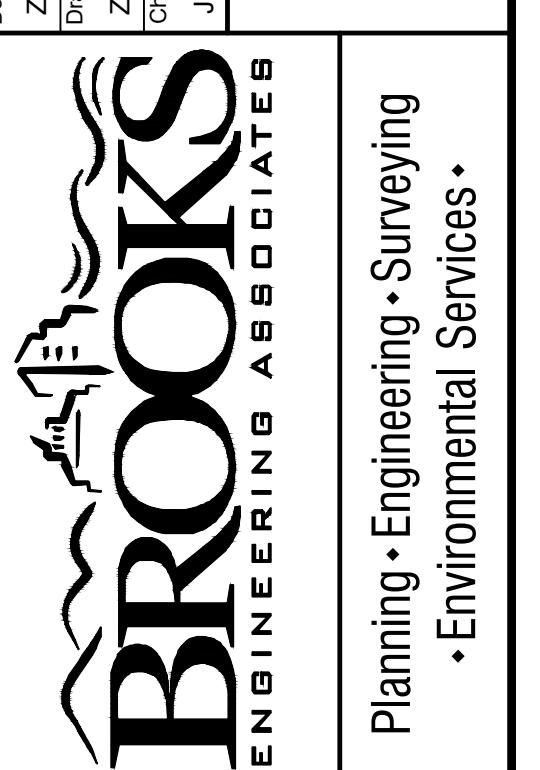
CONTACT INFO:

TROY SHRIVER, PLS
TSHRIVER@BROOKSEA.COM
15 ARLINGTON STREET
ASHEVILLE, NC 28801

No.	REVISIONS/SUBMISSIONS	Date
1	HENDERSON COUNTY PLANNING	12-15-2023
2	TRC SUBMITTAL	01-12-2023

Revision/Submission number within a triangle indicates changes made on this sheet

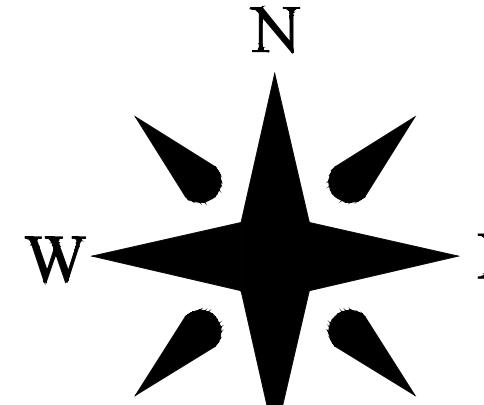
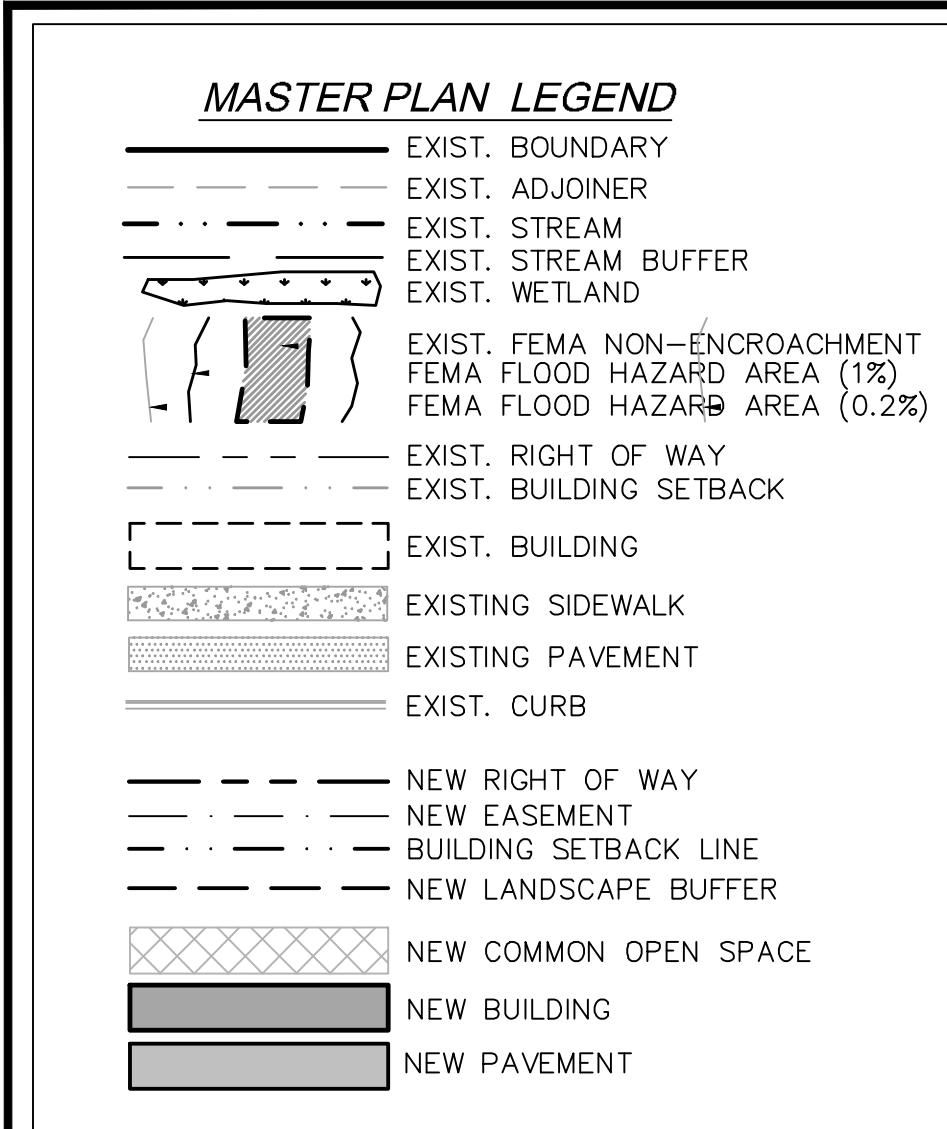
  1CA1CB53249444	FINAL DRAWING - FOR REVIEW PURPOSES ONLY		
	Reviewed: JHK	Scale: ZAW	Checked: JHK
	Date: 01-12-2023		Phone: 1-828-232-1331 Fax: 1-828-232-4700 www.brooksea.com



Project No: 543521	RICH MOUNTAIN PHASE 3 MAJOR SUBDIVISION HENDERSON COUNTY NORTH CAROLINA	Planning • Engineering • Surveying • Environmental Services •
Drawing Title: COVER SHEET		

File Location: L:\2021\Projects\R-3521\Ripple Falls_Rich Mtn. Due Diligence\Draw (Phase 3)\Cpl-Basis-543521\PH3.dwg





SCALE: 1" = 300'

SITE AND ZONING NOTES

PROPERTY ZONING: R3
PROPERTY SIZE: PH3: 150.06 AC | TOTAL: 377.96 AC
PROPERTY STEEPER THAN 60%: 16.76 AC (6.82%)
MINIMUM LOT SIZE: 1.50 AC / 35,640 SQ.FT.
SMALLEST PROPOSED LOT: 1.52 ACRES / 66,136 SQ.FT.

COMMON OPEN SPACE: 158.73 AC (42.0%)

MINIMUM LOT WIDTH: 30' @ R.O.W.

MAXIMUM BUILDING HEIGHT: 40'

SETBACKS:

FRONT: 15' (LOCAL)

REAR: 15'

SIDE: 15'

PROPOSED LINEAR FEET OF ROAD:

PHASE 1: 7,139 LF

PHASE 2: 3,681 LF

PHASE 3: 2,445 LF

TOTAL ON PROPERTY: 15,235 LF

*ALL DIMENSIONS ARE FROM EDGE OF ASPHALT, FACE OF CURB, FACE OF WALL, OR FACE OF BUILDING UNLESS OTHERWISE NOTED.

*ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF DETAILS, SPECIFICATIONS, AND OTHER DEVELOPMENT ORDINANCES OF HENDERSON CO.

*ALL COMMON OPEN SPACE AREAS WILL BE MAINTAINED BY THE HOME OWNERS ASSOCIATION.

LANDSCAPING NOTES:

1. STREET TREES SHALL BE LARGE DECIDUOUS TREES AND SELECTED FROM HENDERSON COUNTY LANDSCAPING RECOMMENDED SPECIES LIST.
2. TREES SHALL BE HEALTHY AND IN COMPLIANCE WITH SECTION 42-184 OF THE HENDERSON COUNTY LAND DEVELOPMENT CODE.
3. STREET TREES SHALL BE AT LEAST 2 INCHES IN CALIPER AND 12' TALL AT PLANTING.

DEVELOPMENT DATA

PROPERTY ADDRESS: LOCUST GROVE ROAD
HENDERSONVILLE NC

PIN NUMBER: SEE COVER SHEET

PROPERTY SIZE: PH3: 150.06 AC - TOTAL: 377.96 AC

ZONING REVIEW: HENDERSON COUNTY

EROSION CONTROL REVIEW: HENDERSON COUNTY

STORMWATER REVIEW: HENDERSON COUNTY

ZONING CLASSIFICATION: R3

PROPOSED NUMBER OF UNITS: PH3: 32 - TOTAL: 83

PROPOSED DENSITY: PH3: 0.21 LOTS/AC - TOTAL: 0.22 LOTS/AC

LOTS 1-51 AND 83 ARE LOCATED WITHIN A FARMLAND PRESERVATION DISTRICT, LOTS 52-82 ARE WITHIN 1/2 MILE OF A FARMLAND DISTRICT.

WATER AND SEWER WILL BE PROVIDED BY INDIVIDUAL WELLS AND SEPTIC SYSTEMS.

PUBLIC WATER AND SEWER ARE APPROXIMATELY 3.0 MILES FROM THE SITE.

DRY HYDRANT IS LOCATED APPROXIMATELY 0.90 ROAD MILES FROM THE ENTRANCE TO THE SITE.

PROPERTY OWNER: RIPPLE FALLS LLC

CONTACT: ANDY BAKER

ADDRESS: 69 CLARK GAP ROAD

FLETCHER NC

EMAIL: ANDY@FMCAROLINA.COM

PHONE: (616) 402-0367

DEVELOPER: RIPPLE FALLS LLC

CONTACT: ANDY BAKER

ADDRESS: 69 CLARK GAP ROAD

FLETCHER NC

EMAIL: ANDY@FMCAROLINA.COM

PHONE: (616) 402-0367

ENGINEER: BROOKS ENGINEERING ASSOCIATES

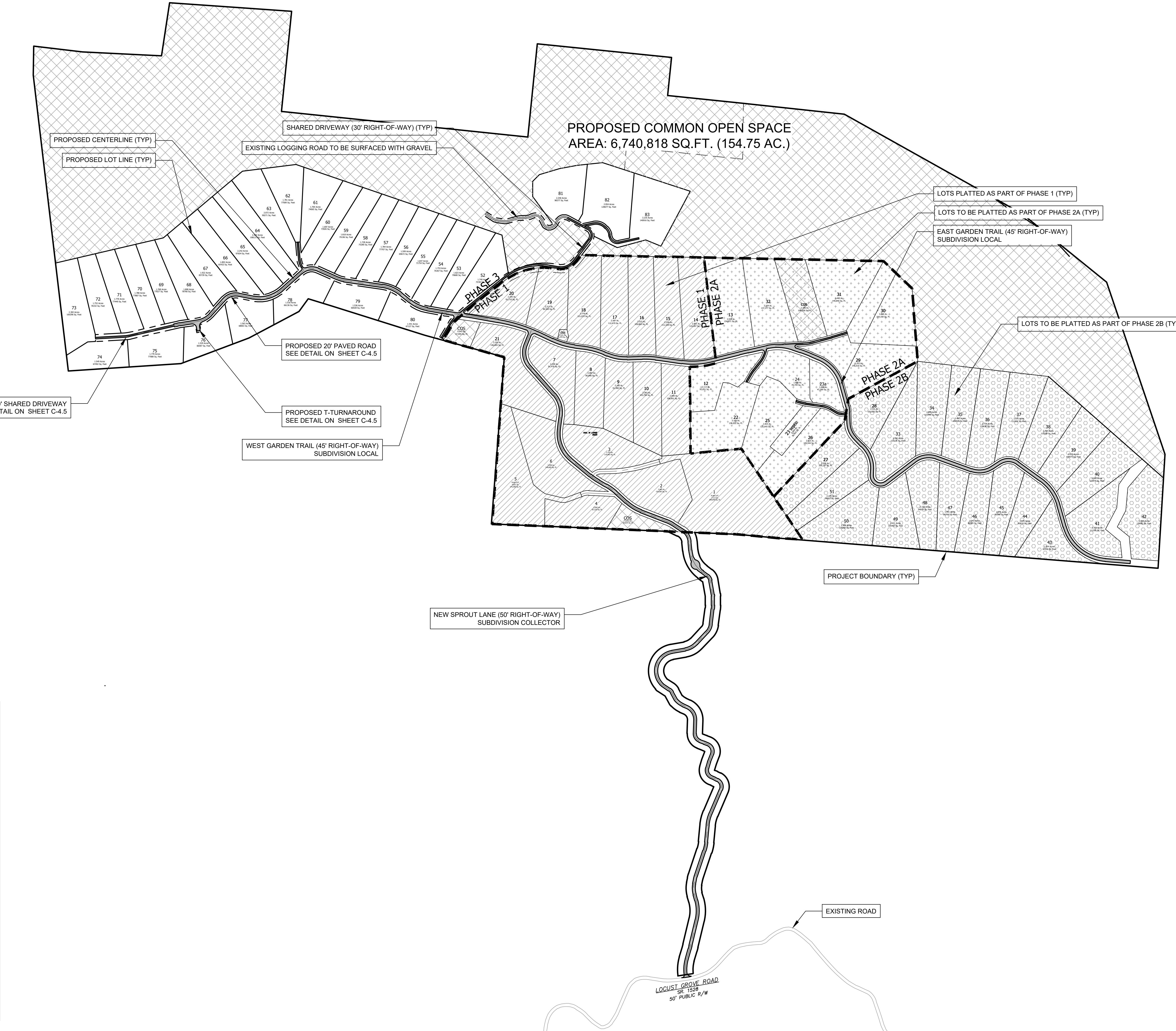
CONTACT: JOHN KINNARD, PE

ADDRESS: 17 ARLINGTON ST

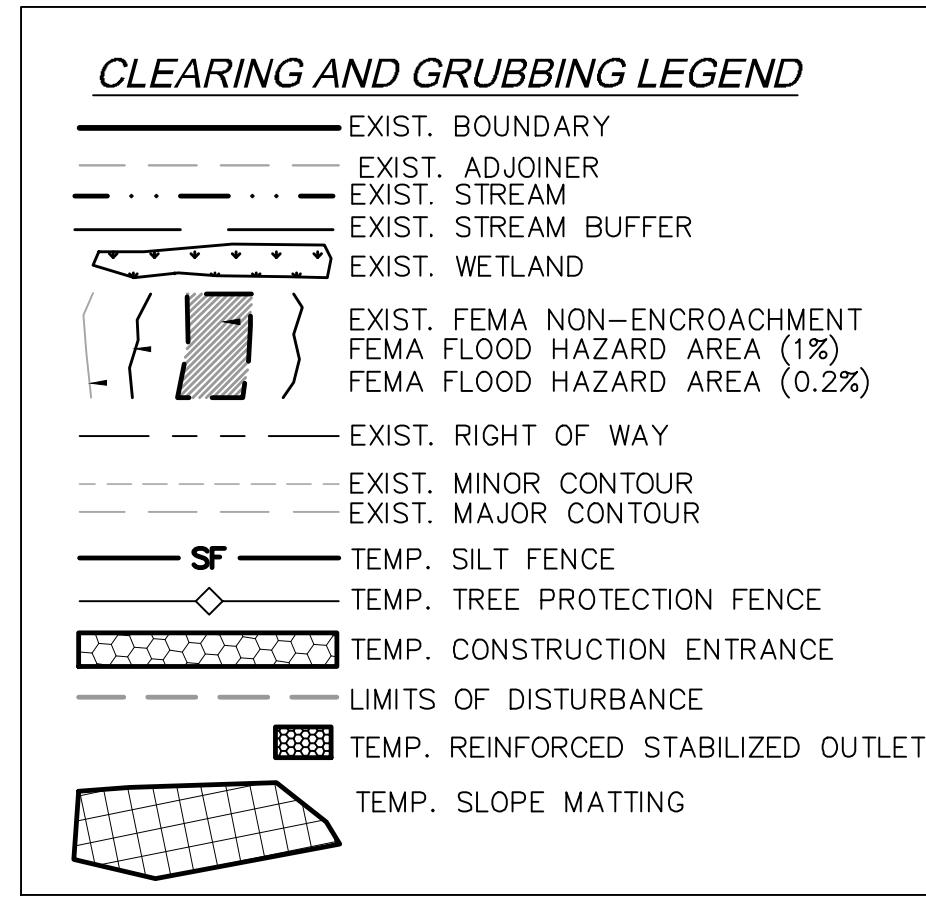
ASHEVILLE, NC 28801

EMAIL: JKINNARD@BROOKSEA.COM

PHONE: 828-232-4700



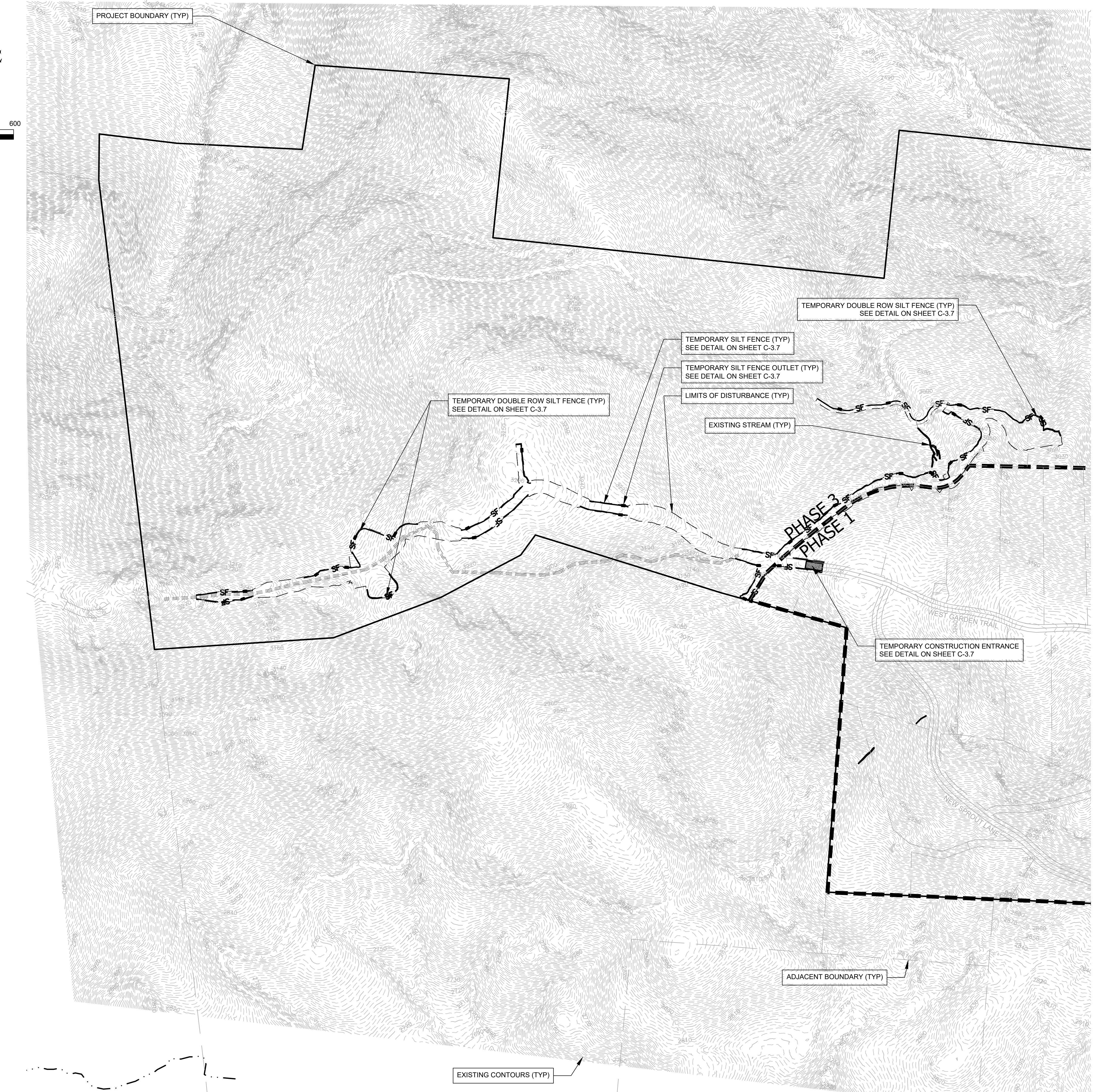




DEVELOPMENT DATA	
PROPERTY ADDRESS:	LOCUST GROVE ROAD HENDERSONVILLE NC
PIN NUMBER:	SEE COVER SHEET
PROPERTY SIZE:	PH3: 150.06 AC. - TOTAL: 377.96 AC.
ZONING REVIEW:	HENDERSON COUNTY
EROSION CONTROL REVIEW:	HENDERSON COUNTY
STORMWATER REVIEW:	HENDERSON COUNTY
ZONING CLASSIFICATION:	R3
PROPOSED NUMBER OF UNITS:	PH3: 32 - TOTAL: 83
PROPOSED DENSITY:	PH3: 0.21 LOTS/AC - TOTAL: 0.22 LOTS/AC
LOTS 1-51 AND 83 ARE LOCATED WITHIN A FARMLAND PRESERVATION DISTRICT. LOTS 52-82 ARE WITHIN 1/2 MILE OF A FARMLAND DISTRICT.	
WATER AND SEWER WILL BE PROVIDED BY INDIVIDUAL WELLS AND SEPTIC SYSTEMS.	
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EMAIL: JKINNAIRD@BROOKSEA.COM	
PHONE: 828-232-4700	

EROSION CONTROL NOTES

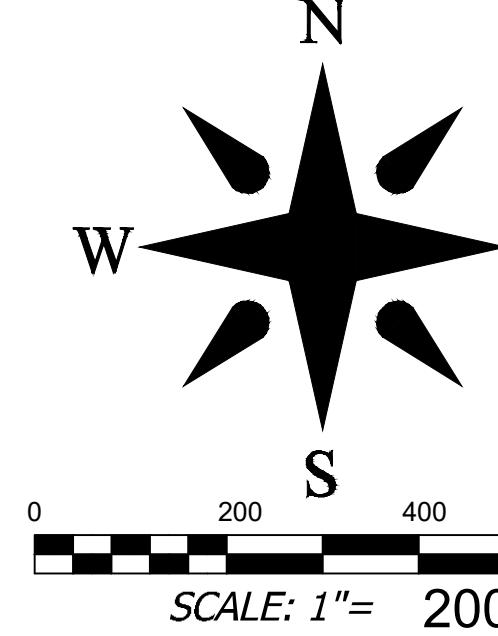
- ALL EROSION MEASURES AND PRACTICES SHALL BE IN ACCORDANCE WITH THE APPROPRIATE JURISDICTION'S DETAILS AND SPECIFICATIONS.
- IN ACCORDANCE WITH THE NPDES GENERAL STORMWATER PERMIT, THE FOLLOWING REQUIREMENTS MUST BE MET:
 - THE EROSION CONTROL PLAN MUST BE IMPLEMENTED - DEVIATIONS ARE A VIOLATION OF THE PERMIT.
 - A COPY OF ALL PLANS MUST BE RETAINED BY THE PERMIT
 - DEPOSITION OF SEDIMENT OFFSITE OR IN A STREAM OR WETLAND ARE CONSIDERED A VIOLATION OF THE PERMIT.
 - VISIBLE DEPOSITION OF SEDIMENT SHALL BE REPORTED TO NCDEQ WITHIN 24 HOURS OF INSPECTION.
 - A RAIN GAUGE SHALL BE MAINTAINED ON SITE.
 - A WRITTEN RECORD OF THE DAILY RAINFALL AMOUNTS SHALL BE RETAINED.
 - AT LEAST ONCE PER WEEK, EACH EROSION CONTROL MEASURE SHALL BE INSPECTED TO ENSURE THAT IT IS OPERATING CORRECTLY AND RECORDS MAINTAINED.
 - INSPECTIONS SHALL ALSO BE MADE WITHIN 24 HOURS OF RAIN EVENTS OVER 1/2 INCH.
 - THE QUALITY OF ALL STORMWATER DISCHARGES SHALL BE OBSERVED AND RECORDED.
 - IF ANY VISIBLE SEDIMENTATION IS LEAVING THE SITE OR ENTERING WATERS OF THE STATE, CORRECTIVE ACTION SHALL BE TAKEN IMMEDIATELY TO CONTROL THE DISCHARGE OF SEDIMENTS.
 - AN APPROVED COPY OF THE E&S PLAN WITH PLACARD AND APPROVAL LETTER AND A COPY OF THE NPDES PERMIT, WITH A MINIMUM OF 30 DAYS OF SELF-INSPECTION REPORTS, ARE BEING KEPT ON SITE UNTIL PROJECT CLOSURE BY NCDEQ. THEY MUST BE MADE AVAILABLE TO THE EROSION CONTROL INSPECTOR AS REQUIRED.
 - THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL USE THE INSPECTION AND MONITORING RECORDS FOR ACTIVITIES UNDER STORMWATER GENERAL PERMIT NCG010000 AND SELF-INSPECTION RECORDS FOR LAND DISTURBING ACTIVITIES PER G.S. 113A-54.1. THE INSPECTIONS SHOULD BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 - ALL DRAINAGE EASEMENTS MUST BE GRASSED AND/OR RIP-RAPPED PER THE PLANS TO CONTROL EROSION.
 - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
 - EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AND AN AMENDED PLAN BE SUBMITTED AND APPROVED SHOWING MODIFIED EROSION CONTROL DEVICES.
 - A RAIN GAUGE WILL BE INSTALLED ON THE SITE.
 - THE SITE SHALL RECEIVE TEMPORARY/PERMANENT SEEDING WHEN CONSTRUCTION IS COMPLETE OR DELAYED FOR ANY REASON. SEE SHEET C-3.9 FOR A DETAILED TIME FRAME.
 - CONTRACTOR TO PROVIDE SHEET PROTECTION AT EACH STRUCTURE AS STORMWATER IS DRAINED.
 - STOCKPILE STAGING, AND LAYDOWN AREAS ARE TO BE WITHIN THE LIMITS OF DISTURBANCE AND SHOULD BE LOCATED AT LEAST 50 FEET AWAY FROM STORM DRAIN OUTLETS AND SURFACE WATERS.
 - CONTACT HENDERSON COUNTY SITE DEVELOPMENT 48 HOURS PRIOR TO COMMENCEMENT OF LAND DISTURBING ACTIVITIES.



Project No: 543521	RICH MOUNTAIN PHASE 3 MAJOR SUBDIVISION HENDERSON COUNTY NORTH CAROLINA	Reviewed: JHK Drawn: ZAW Checked: JHK Date: 01-12-2023	REVISIONS/SUBMISSIONS No. 1 HENDERSON COUNTY PLANNING 2 TRC SUBMITTAL	Date 01-12-2023
Drawing Title: C-3.0	BROOKS ENGINEERING ASSOCIATES Planning • Engineering • Surveying • Environmental Services •	FINAL DRAWING - FOR REVIEW PURPOSES ONLY		
File Location: L:\2021\Projects\R-3521\Ripple Falls Rich Mtn. Due Diligence\DWG\Phase 3\Cont-Basis\543521\PH3.dwg				

GRADING AND STORMWATER LEGEND

- EXIST. BOUNDARY
- EXIST. ADJOINER
- EXIST. STREAM
- EXIST. STREAM BUFFER
- EXIST. RIGHT OF WAY
- EXIST. EASEMENT
- EXIST. BUILDING SETBACK
- EXIST. BUILDING
- EXIST. SIDEWALK
- EXIST. PAVEMENT
- EXIST. MINOR CONTOUR
- EXIST. MAJOR CONTOUR
- NEW BUILDING
- NEW PAVEMENT
- NEW HEADWALL
- NEW FLARED END SECTION
- NEW STORM PIPE
- <-SW RIP RAP LINED DITCH
- ELEV NEW MINOR CONTOUR
- NEW MAJOR CONTOUR
- NEW SPOT GRADE
- NEW RIGHT OF WAY
- LIMITS OF DISTURBANCE
- NEW WALL (BY OTHERS)

**DEVELOPMENT DATA**

PROPERTY ADDRESS: LOCUST GROVE ROAD
HENDERSONVILLE NC
PIN NUMBER: SEE COVER SHEET
PROPERTY SIZE: PH3: 150.06 AC. - TOTAL: 377.96 AC.
ZONING REVIEW: HENDERSON COUNTY
EROSION CONTROL REVIEW: HENDERSON COUNTY
STORMWATER REVIEW: HENDERSON COUNTY
ZONING CLASSIFICATION: R3
PROPOSED NUMBER OF UNITS: PH3: 32 - TOTAL: 83
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CONTACT: JOHN KINNAIRD, PE
ADDRESS: 17 ARLINGTON ST
ASHEVILLE, NC 28801
EMAIL: JKINNAIRD@BROOKSEA.COM
PHONE: 828-232-4700

STORM AND EROSION NOTES

PROPERTY SIZE: PH3: 150.06 AC. - TOTAL: 377.96 AC.
PROPERTY STEEPER THAN 60%: 16.76 AC. (6.82%)
PROJECT DENSITY: PH3: 0.21 LOTS/AC. - TOTAL 0.22 LOTS/AC.
IMPERVIOUS SUMMARY:
ROADS: PH3: 1.48 AC. - TOTAL: 6.68 AC.
HOUSES & DRIVES (15,000 SF / LOT): 11.02 AC. - TOTAL: 28.58 AC.
TOTAL: 12.50 AC. (8.3%) - 35.26 AC. (9.3%)

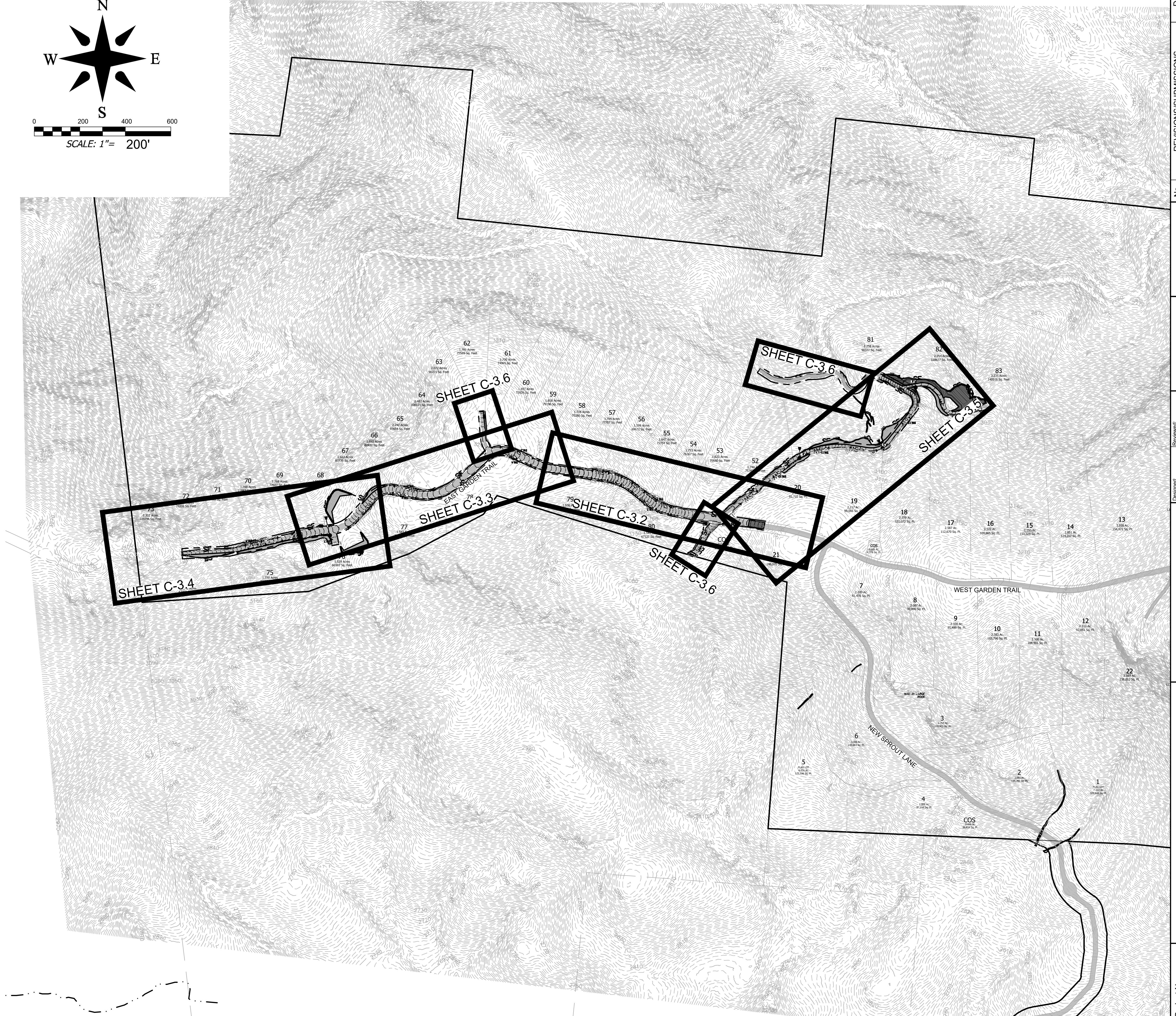
EROSION CONTROL NOTES:

1. SEE SHEET C-3.9 FOR STABILIZATION TIME FRAMES.
2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES, IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AND AN AMENDED PLAN BE SUBMITTED AND APPROVED SHOWING MODIFIED EROSION CONTROL DEVICES.

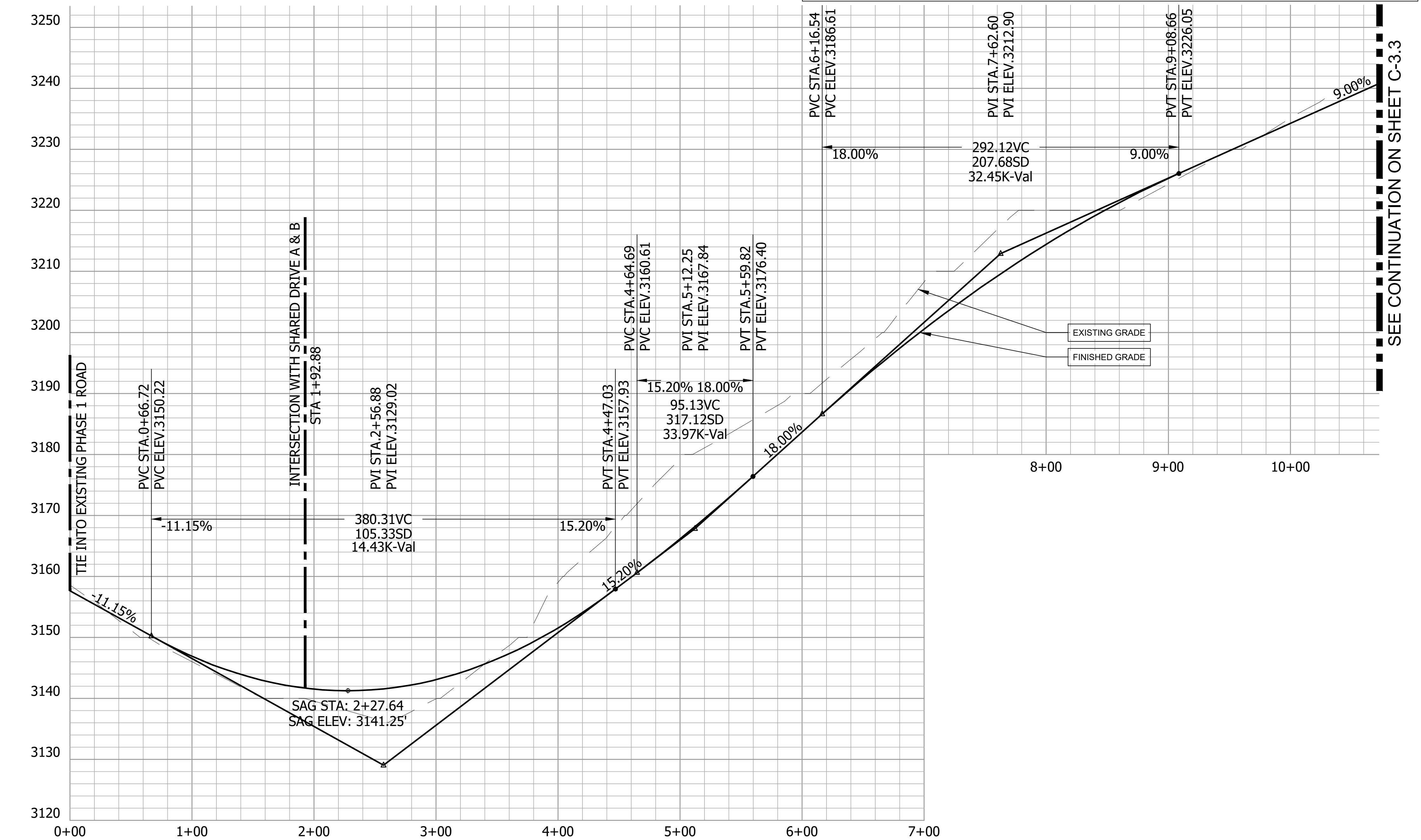
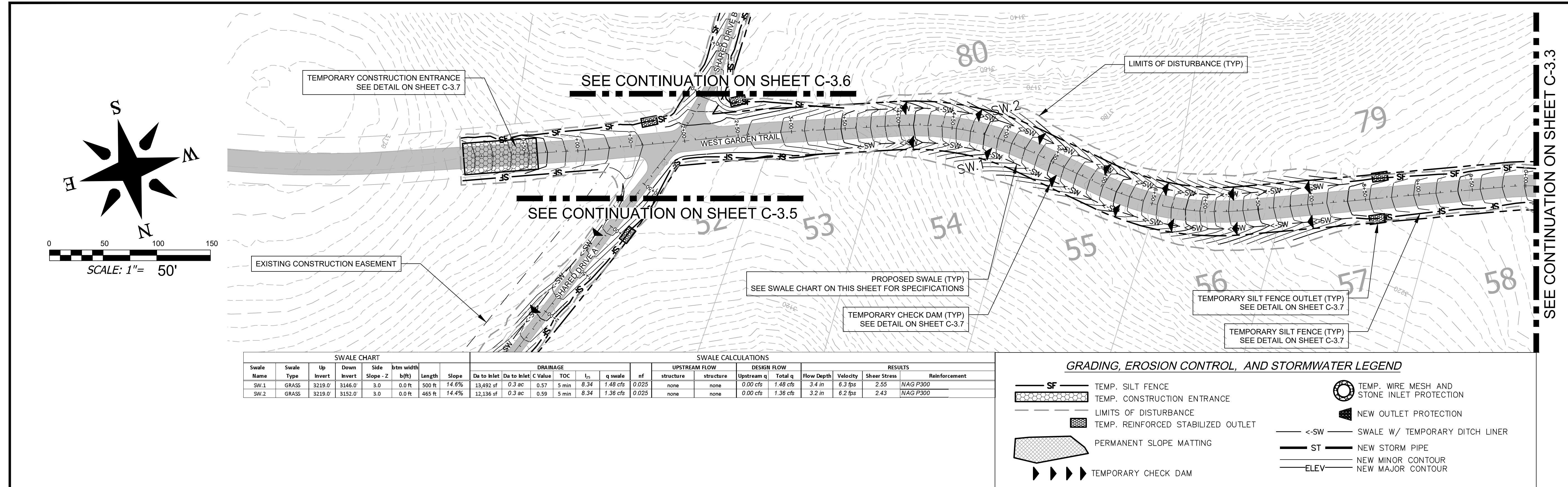
STORMWATER NOTES:

1. ALL STREAMS SHALL HAVE A 30' SETBACK FOR NEW BUILT-UPON AREAS.
2. ALL PIPE SHALL BE DOUBLE-WALL HDPE WITH PROPER STONE BEDDING AND SHALL HAVE A MINIMUM COVER OF 30'.
3. ALL FILL SLOPES SHALL BE COMPACTED FULL DEPTH TO NOT LESS THAN 95 PERCENT MAXIMUM DENSITY (STANDARD PROCTOR), SHALL BE PLACED ON A SURFACE CLEAR OF GROWTH AND DEBRIS AND BE PROPERLY BENCHED AND DRAINED.
4. ALL SLOPES GREATER THAN 3:1 AND TALLER THAN 10 FEET SHALL BE SEDED AND COVERED WITH MATTING AS SHOWN IN THE PLANS.
5. AN APPROVED GRADING PERMIT IS REQUIRED FOR ANY BORROW OR WASTE SITE PRIOR TO INITIATION OF ANY LAND DISTURBING ACTIVITY.

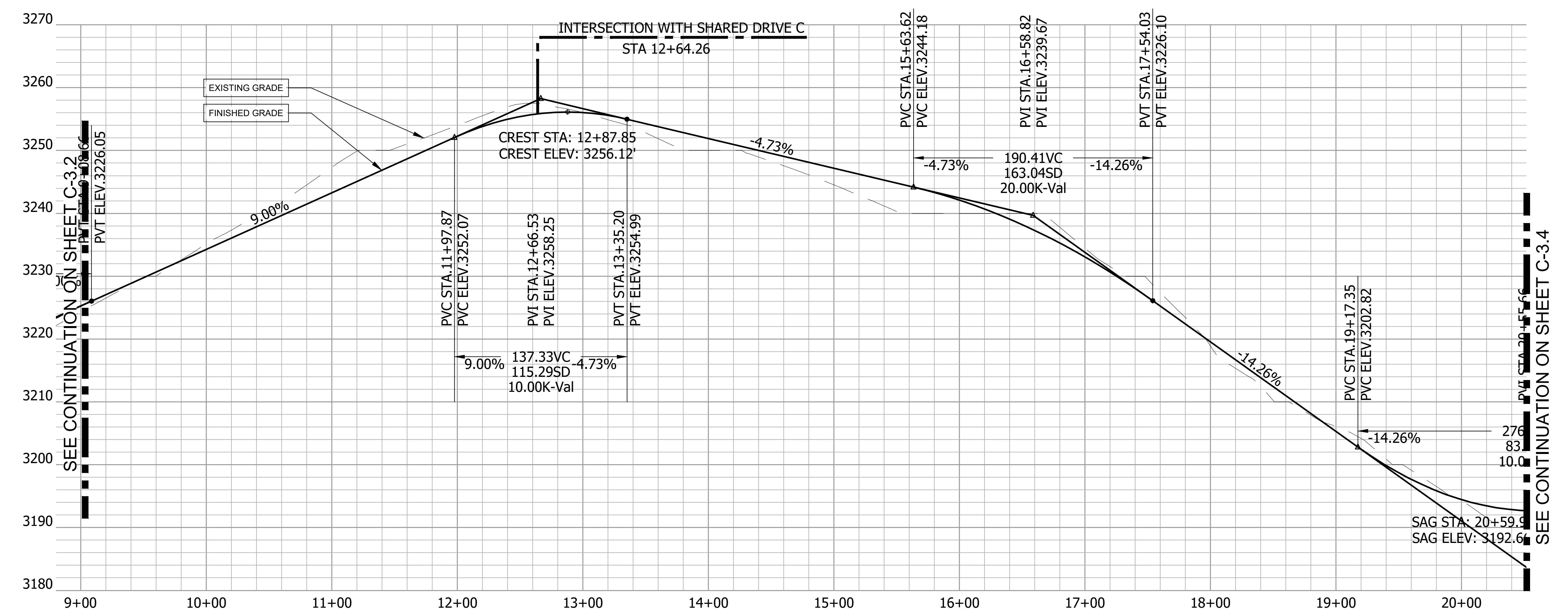
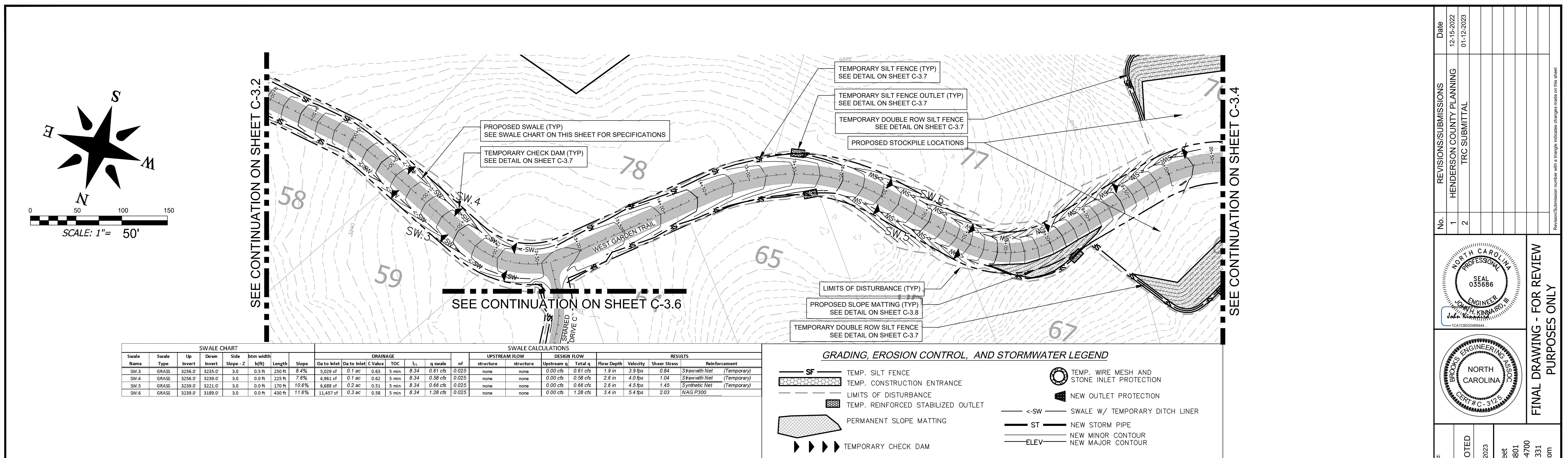
*ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF DETAILS, SPECIFICATIONS, AND OTHER DEVELOPMENT ORDINANCES OF HENDERSON CO.



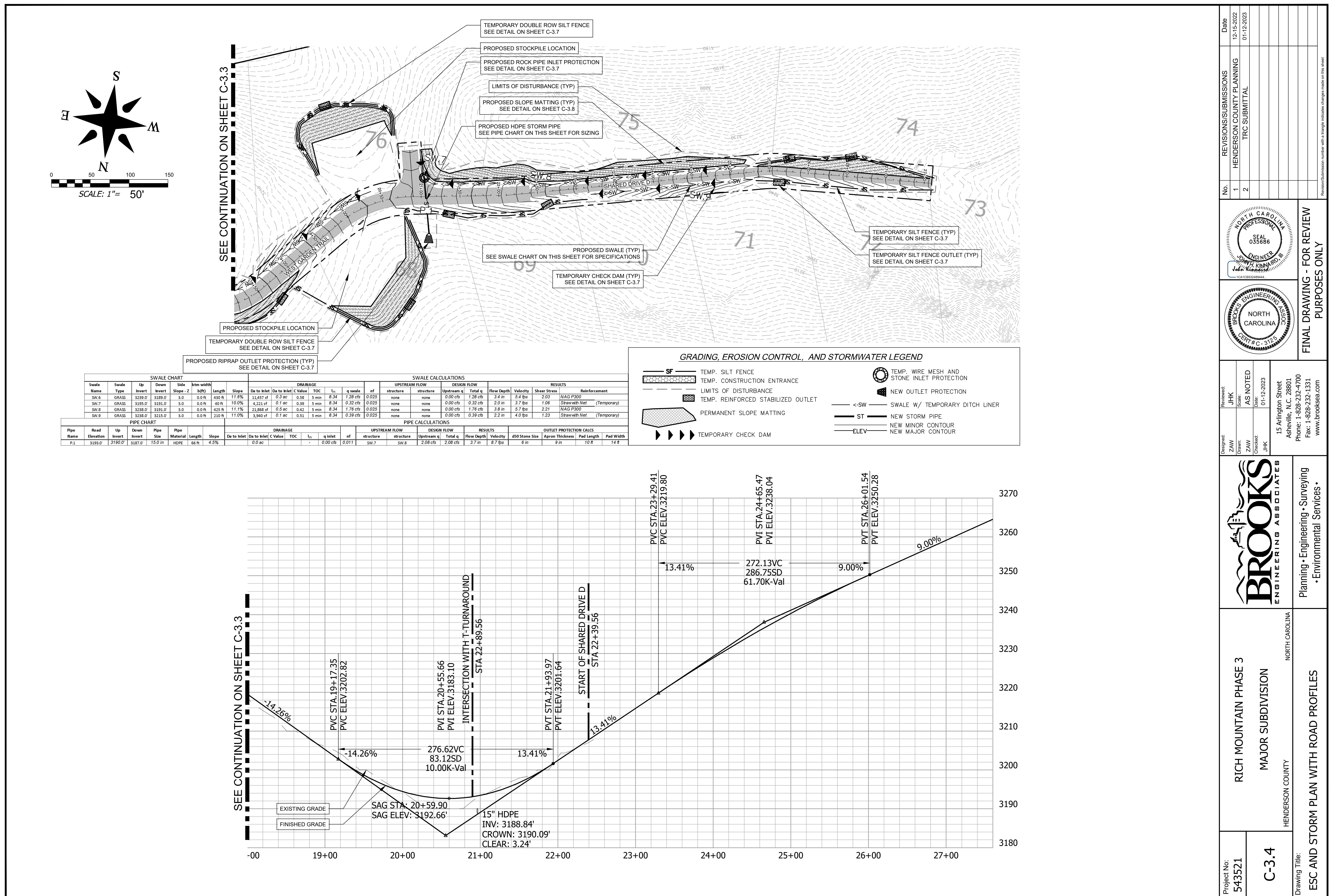
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Drawing Title: C-3.1	OVERALL ESC AND STORMWATER PLAN								
HENDERSON COUNTY, NORTH CAROLINA									
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2	TRC SUBMITTAL	01-12-2023							
<p>Revision Submission number within a triangle indicates changes made on this sheet</p>									
<p>JKINNAIRD, PE John W. Kinnaird, III 1CA1CB53248944</p>									
<p>BROOKS ENGINEERING ASSOCIATES Planning • Engineering • Surveying • Environmental Services •</p>									
<p>15 Arlington Street Asheville, NC 28801 Phone: 1-828-232-1331 Fax: 1-828-232-4700 www.brooksea.com</p>									
<p>FINAL DRAWING - FOR REVIEW PURPOSES ONLY</p>									
Designed: ZAW	Reviewed: JHK	Scale: ZAW	AS NOTED						
Drawn: ZAW	Checked: JHK	Date: 01-12-2023	01-12-2023						
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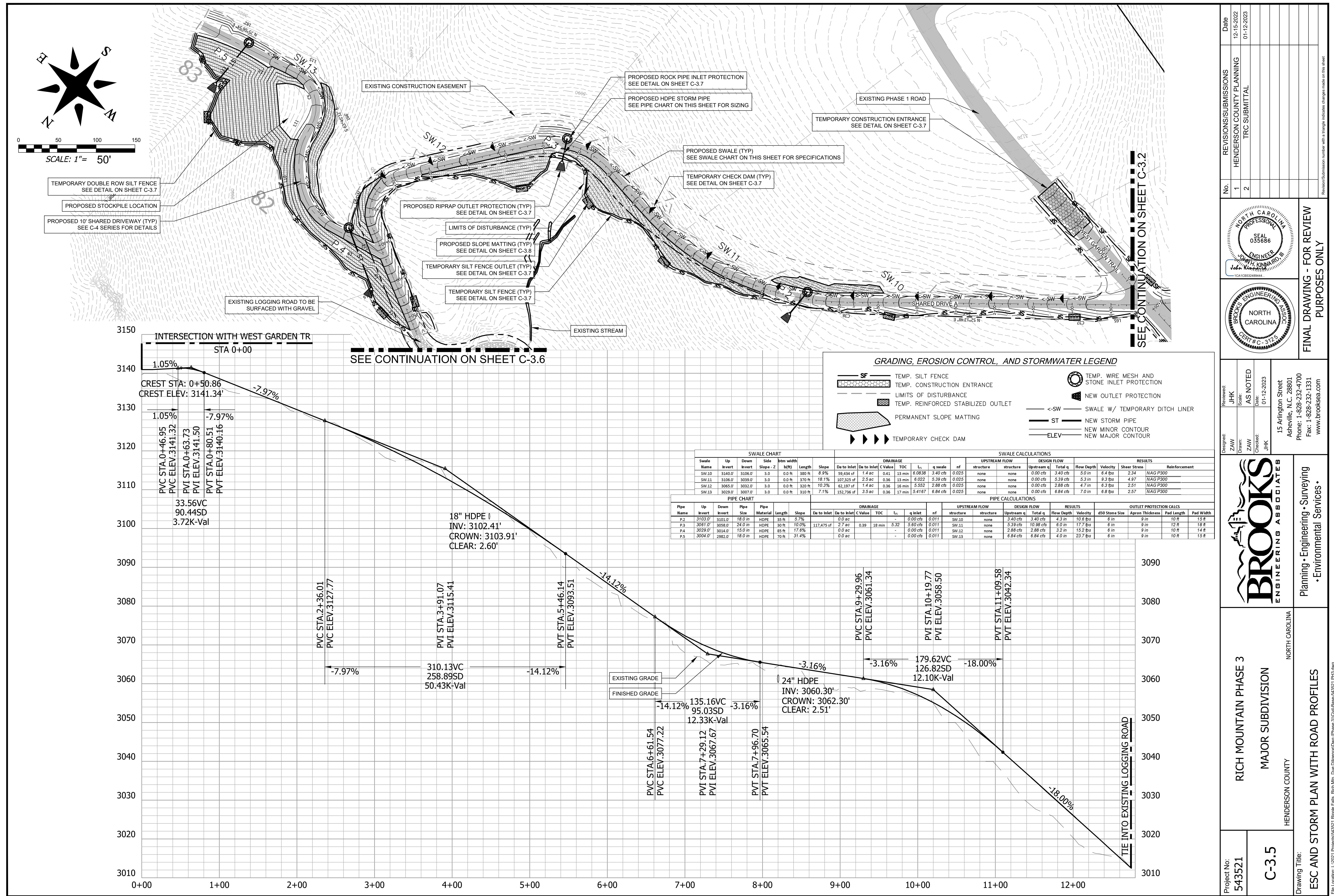


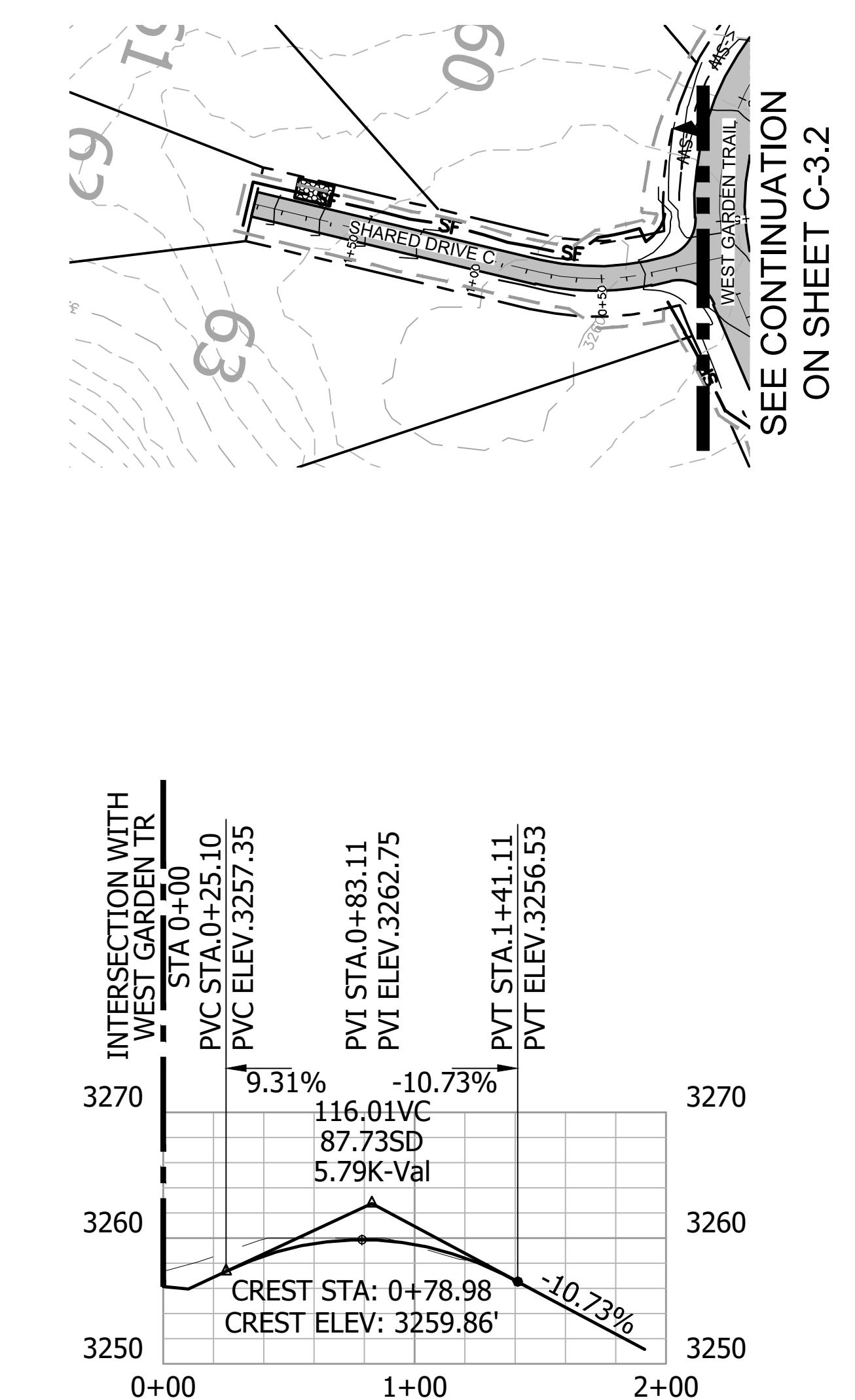
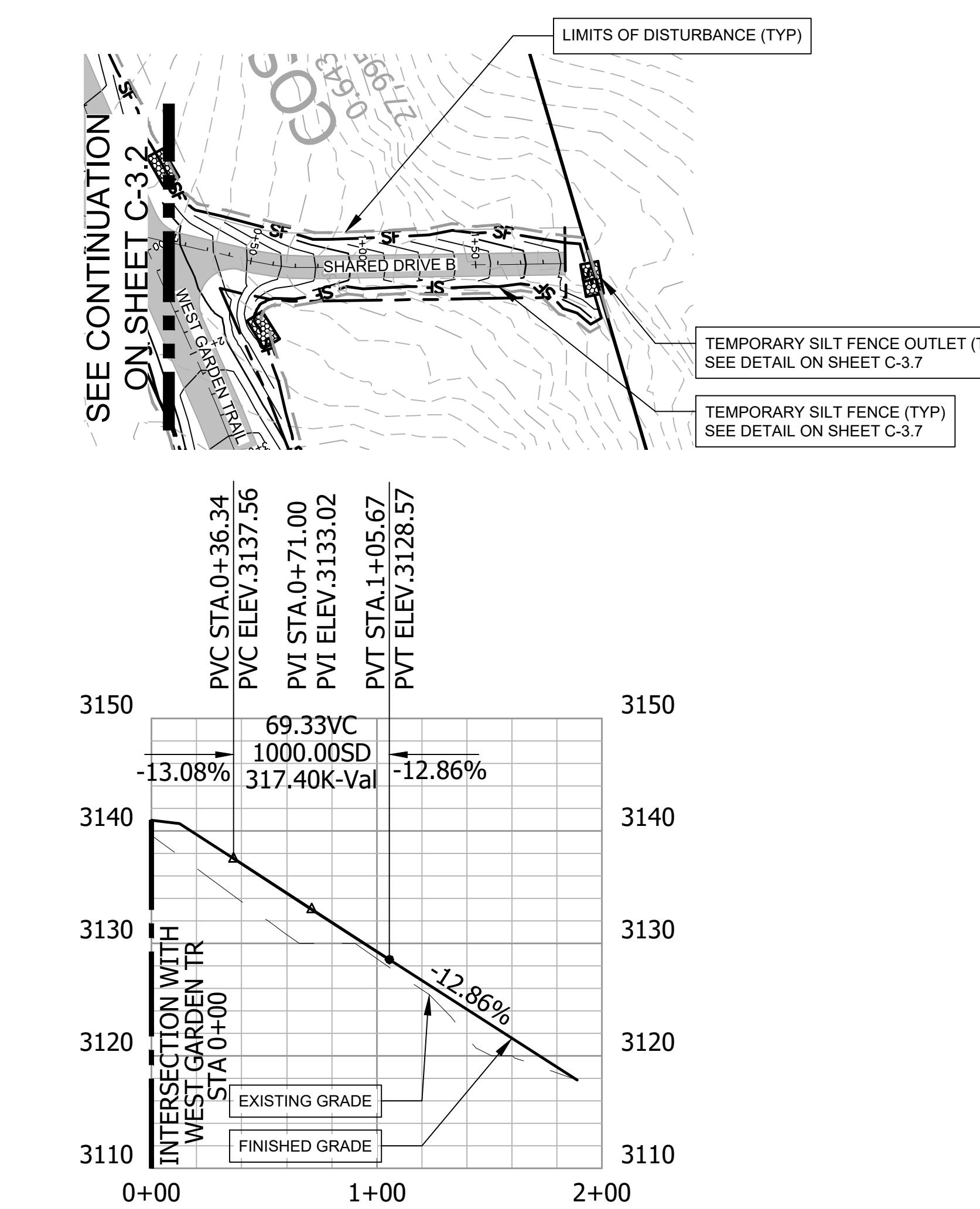
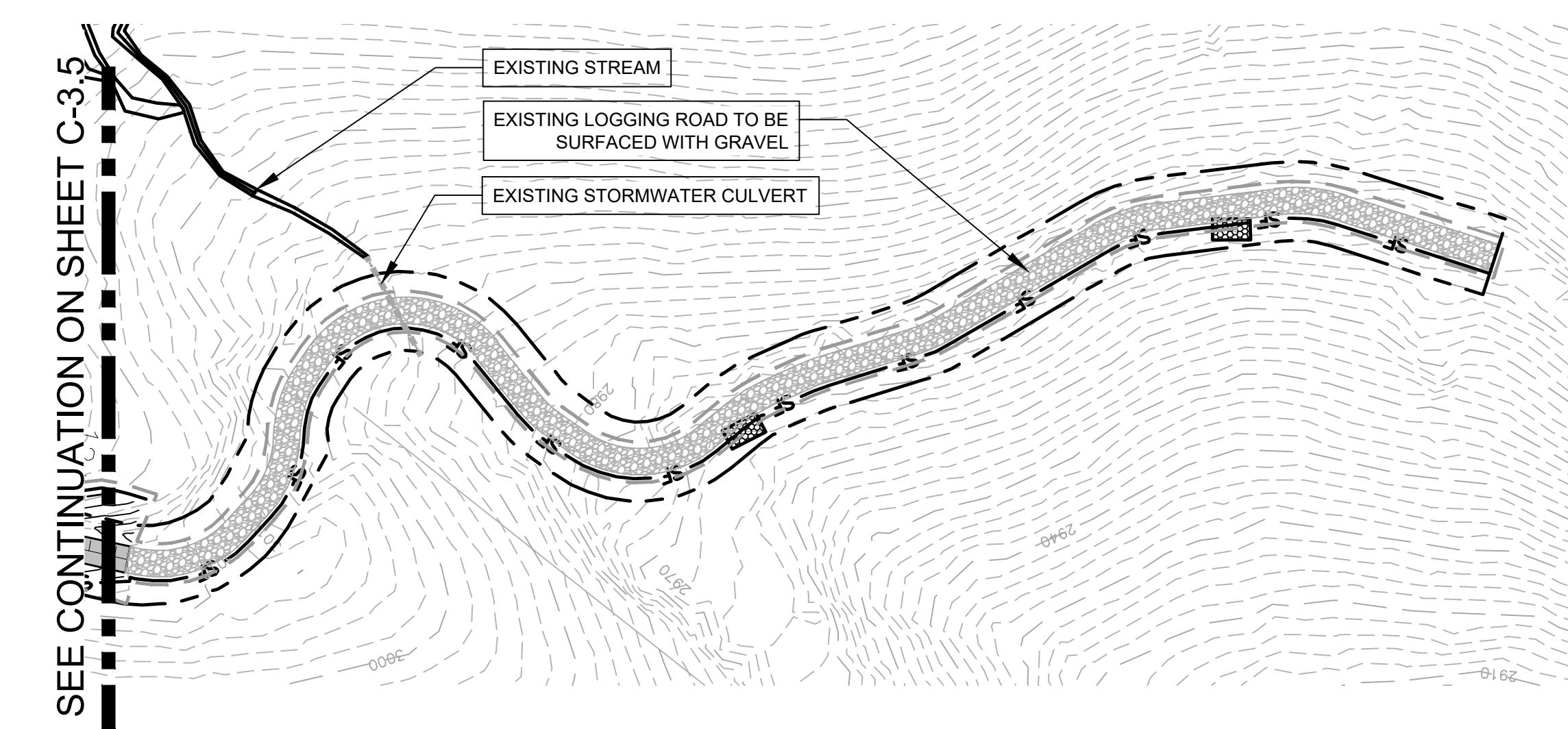
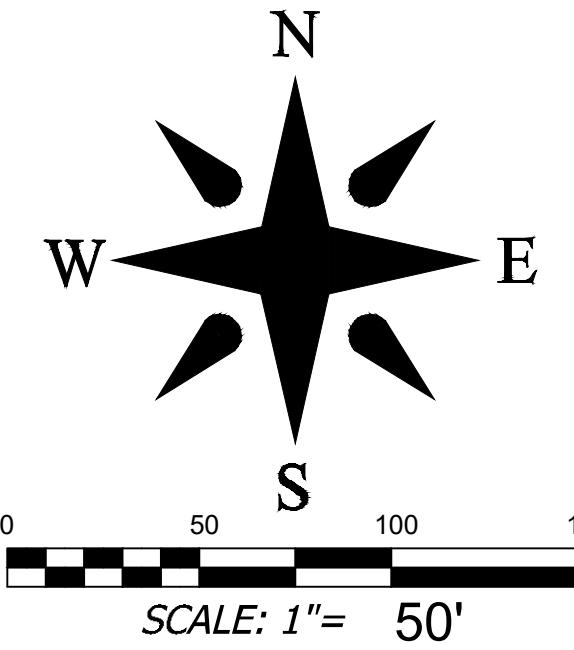
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Drawing Title: C-3.2	BROOKS ENGINEERING ASSOCIATES Asheville, NC 28801 Phone: 1-828-232-4700 Fax: 1-828-232-1331 www.brooksea.com	Planning • Engineering • Surveying • Environmental Services •									
ESC AND STORM PLAN WITH ROAD PROFILES											
File Location: L:\2021 Projects\543521\Report\Plans\Rich Mtn. Due Diligence\DWG\Phase 3\Civil\dras\5-5-1921 PHASE3.dwg											
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1	HENDERSON COUNTY PLANNING	12-15-2022									
2	TRC SUBMITTAL	01-12-2023									
FINAL DRAWING - FOR REVIEW PURPOSES ONLY											



Project No:	RICH MOUNTAIN PHASE 3		
	543521		
Drawing Title:	MAJOR SUBDIVISION		
	C-3.3 HENDERSON COUNTY		
Designed:	Reviewed:	JHK	
Drawn:	Scale:	ZAW	AS NOTED
Checked:	Date:	JHK	01-12-2023
 BROOKS ENGINEERING ASSOCIATES <small>NORTH CAROLINA</small>			
FINAL DRAWING - FOR REVIEW PURPOSES ONLY			
<small>Revision/Submission number with a triangle indicates changes made on this sheet</small>			

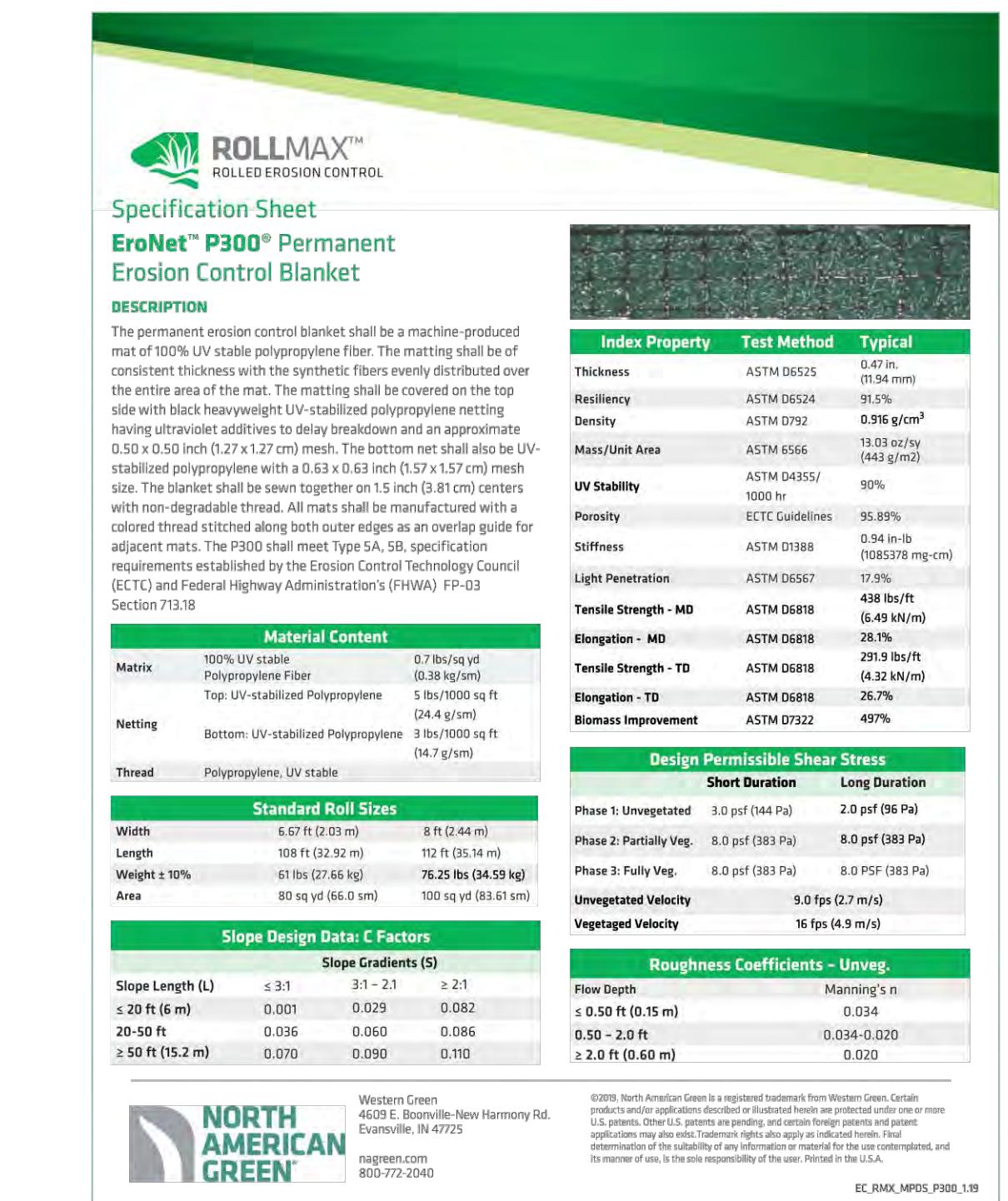






GRADING, EROSION CONTROL, AND STORMWATER LEGEND							
SF	TEMP. SILT FENCE	TEMP. WIRE MESH AND STONE INLET PROTECTION					
—	TEMP. CONSTRUCTION ENTRANCE	NEW OUTLET PROTECTION					
—	LIMITS OF DISTURBANCE	SWALE W/ TEMPORARY DITCH LINER					
■	TEMP. REINFORCED STABILIZED OUTLET	NEW STORM PIPE					
△△△	PERMANENT SLOPE MATTING	NEW MINOR CONTOUR					
▶▶▶	TEMPORARY CHECK DAM	NEW MAJOR CONTOUR					
ELEV	—	—					

Project No: 543521	RICH MOUNTAIN PHASE 3 MAJOR SUBDIVISION HENDERSON COUNTY NORTH CAROLINA	Reviewed: JHK Scale: AS NOTED Checked: JHK Date: 01-12-2023 Phone: 1-828-232-4700 Fax: 1-828-232-1331 www.brooksea.com	No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 229 230 231 232 233 234 235 236 237 238 239 239 240 241 242 243 244 245 246 247 248 249 249 250 251 252 253 254 255 256 257 258 259 259 260 261 262 263 264 265 266 267 268 269 269 270 271 272 273 274 275 275 276 277 278 279 279 280 281 282 283 284 285 285 286 287 288 289 289 290 291 292 293 293 294 295 295 296 297 298 298 299 299 300 301 302 303 304 305 306 307 308 309 309 310 311 312 313 314 315 316 317 318 319 319 320 321 322 323 324 325 326 327 328 329 329 330 331 332 333 333 334 335 335 336 337 337 338 338 339 339 340 340 341 341 342 342 343 343 344 344 345 345 346 346 347 347 348 348 349 349 350 350 351 351 352 352 353 353 354 354 355 355 356 356 357 357 358 358 359 359 360 360 361 361 362 362 363 363 364 364 365 365 366 366 367 367 368 368 369 369 370 370 371 371 372 372 373 373 374 374 375 375 376 376 377 377 378 378 379 379 380 380 381 381 382 382 383 383 384 384 385 385 386 386 387 387 388 388 389 389 390 390 391 391 392 392 393 393 394 394 395 395 396 396 397 397 398 398 399 399 400 400 401 401 402 402 403 403 404 404 405 405 406 406 407 407 408 408 409 409 410 410 411 411 412 412 413 413 414 414 415 415 416 416 417 417 418 418 419 419 420 420 421 421 422 422 423 423 424 424 425 425 426 426 427 427 428 428 429 429 430 430 431 431 432 432 433 433 434 434 435 435 436 436 437 437 438 438 439 439 440 440 441 441 442 442 443 443 444 444 445 445 446 446 447 447 448 448 449 449 450 450 451 451 452 452 453 453 454 454 455 455 456 456 457 457 458 458 459 459 460 460 461 461 462 462 463 463 464 464 465 465 466 466 467 467 468 468 469 469 470 470 471 471 472 472 473 473 474 474 475 475 476 476 477 477 478 478 479 479 480 480 481 481 482 482 483 483 484 484 485 485 486 486 487 487 488 488 489 489 490 490 491 491 492 492 493 493 494 494 495 495 496 496 497 497 498 498 499 499 500 500 501 501 502 502 503 503 504 504 505 505 506 506 507 507 508 508 509 509 510 510 511 511 512 512 513 513 514 514 515 515 516 516 517 517 518 518 519 519 520 520 521 521 522 522 523 523 524 524 525 525 526 526 527 527 528 528 529 529 530 530 531 531 532 532 533 533 534 534 535 535 536 536 537 537 538 538 539 539 540 540 541 541 542 542 543 543 544 544 545 545 546 546 547 547 548 548 549 549 550 550 551 551 552 552 553 553 554 554 555 555 556 556 557 557 558 558 559 559 560 560 561 561 562 562 563 563 564 564 565 565 566 566 567 567 568 568 569 569 570 570 571 571 572 572 573 573 574 574 575 575 576 576 577 577 578 578 579 579 580 580 581 581 582 582 583 583 584 584 585 585 586 586 587 587 588 588 589 589 590 590 591 591 592 592 593 593 594 594 595 595 596 596 597 597 598 598 599 599 600 600 601 601 602 602 603 603 604 604 605 605 606 606 607 607 608 608 609 609 610 610 611 611 612 612 613 613 614 614 615 615 616 616 617 617 618 618 619 619 620 620 621 621 622 622 623 623 624 624 625 625 626 626 627 627 628 628 629 629 630 630 631 631 632 632 633 633 634 634 635 635 636 636 637 637 638 638 639 639 640 640 641 641 642 642 643 643 644 644 645 645 646 646 647 647 648 648 649 649 650 650 651 651 652 652 653 653 654 654 655 655 656 656 657 657 658 658 659 659 660 660 661 661 662 662 663 663 664 664 665 665 666 666 667 667 668 668 669 669 670 670 671 671 672 672 673 673 674 674 675 675 676 676 677 677 678 678 679 679 680 680 681 681 682 682 683 683 684 684 685 685 686 686 687 687 688 688 689 689 690 690 691 691 692 692 693 693 694 694 695 695 696 696 697 697 698 698 699 699 700 700 701 701 702 702 703 703 704 704 705 705 706 706 707 707 708 708 709 709 710 710 711 711 712 712 713 713 714 714 715 715 716 716 717 717 718 718 719 719 720 720 721 721 722 722 723 723 724 724 725 725 726 726 727 727 728 728 729 729 730 730 731 731 732 732 733 733 734 734 735 735 7
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H NORTH AMERICAN GREEN SC-150 SCALE=NTS

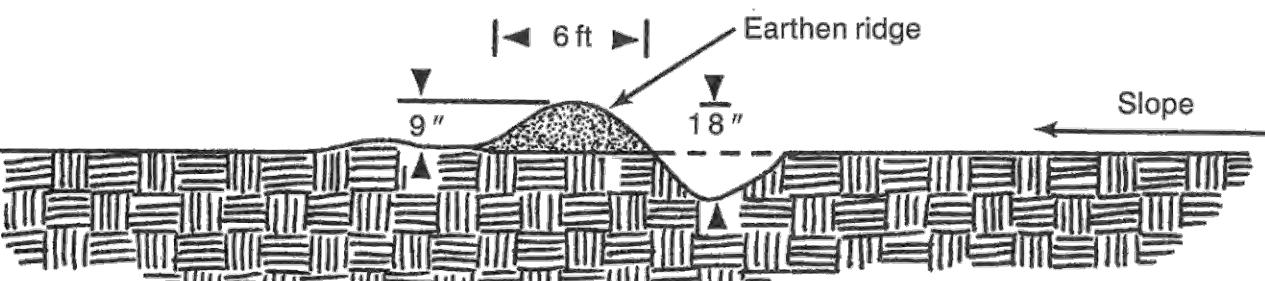


Figure 6.23b Section view of a water bar.

Maintenance Periodically inspect right-of-way diversions for wear and after every heavy rainfall for erosion damage. Immediately remove sediment from the flow area, and repair the dike. Check outlet areas, and make timely repairs as needed. When permanent road drainage is established and the area above the temporary right-of-way diversions is permanently stabilized, remove the dike, and fill the channel to blend with the natural ground, and appropriately stabilize the disturbed area.

References *Outlet Protection*
6.40, Level Spreader
6.41, Outlet Stabilization Structure

Appendix
8.03, Estimating Runoff

Design Criteria **Height**—18-inch minimum measured from the channel bottom to the ridge top.

Side slope—2:1 or flatter

3:1 or flatter where vehicles cross

Base width of ridge—6 feet minimum (Figure 6.23b).

Spacing of water bars is shown in Table 6.23a:

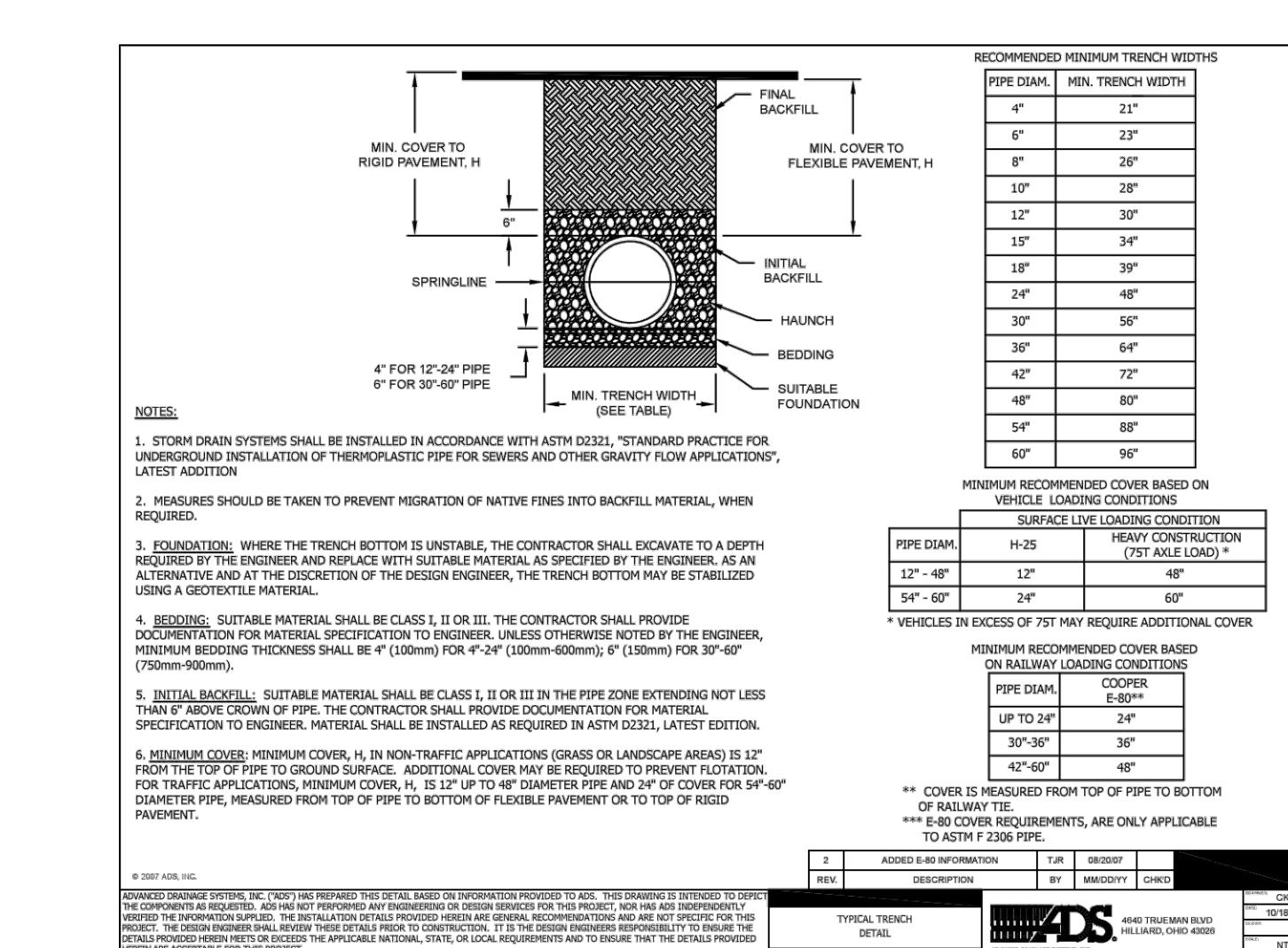
Slope (%)	Spacing (Ft)
<5	125
5 to 10	100
10 to 20	75
20 to 35	50
>35	25

Grade and angle—A crossing angle should be selected to provide a positive grade not to exceed 2%.

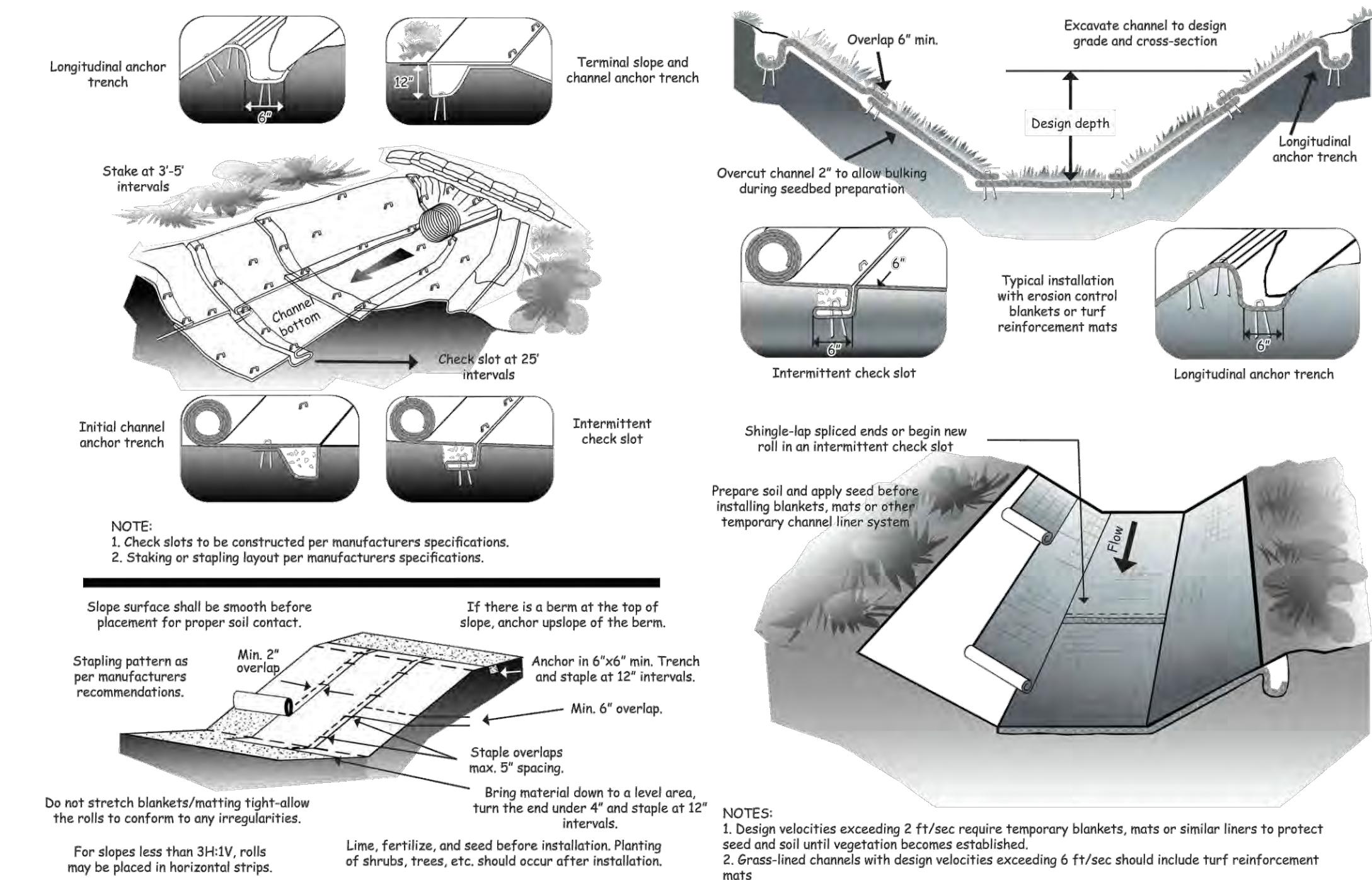
Outlet—Diversions should have stable outlets, either natural or constructed. Site spacing may need to be adjusted for field conditions to use the most suitable areas for water disposal.

Construction Specifications
1. Install the diversion as soon as the right-of-way has been cleared and graded.
2. Disk the base for the constructed ridge before placing fill.

K RIGHT OF WAY DIVERSION (WATER BARS) SCALE= NTS



L PIPE BEDDING DETAIL SCALE= NTS



NOTE: 1. Check slots to be constructed per manufacturer's specifications.
2. Staking or stapling layout per manufacturers specifications.

Slope surface shall be smooth before placement for proper soil contact.

If there is a berm at the top of slope, anchor slope at the berm.

Stapling pattern as per manufacturers recommendations.

Min. 2" overlap

Anchor in 6"x6" min. Trench and staple at 12" intervals.

Min. 6" overlap.

Staple overlaps max. 5" spacing.

Bring material down to a level area, turn the end under 4" and staple at 12" intervals.

For slopes less than 3H:1V, rolls may be placed in horizontal strips.

Lime, fertilizer, and seed before installation. Planting of shrubs, trees, etc. should occur after installation.

NOTES:

1. Design velocities exceeding 2 ft/sec require temporary blankets, mats or similar liners to protect seed and soil until vegetation becomes established.

2. Grass-lined channels with design velocities exceeding 6 ft/sec should include turf reinforcement mats

Anchoring Devices—11 gauge, at least 6 inches length by 1 inch width staples or 12 inch minimum length wooden stakes are recommended for anchoring the RECP to the ground.

Drive staples or pins so that the top of the staple or pin is flush with the ground surface. Anchor each RECP every 3 feet along its center. Longitudinal overlaps must be sufficient to accommodate a row of anchors and uniform along the entire length of overlap and anchored every 3 feet along the overlap length. Roll ends may be spliced by overlapping 1 foot (in the direction of water flow), with the upstream/upslope mat placed on top of the downstream/downslope RECP. This overlap should be anchored at 1 foot spacing across the RECP. When installing multiple width mats heat seamed in the factory, all factory seams and field overlaps should be similarly anchored.

Grade the surface of installation areas so that the ground is smooth and loose. When seeding prior to installation, follow the steps for seed bed preparation, soil amendments, and seeding in *Surface Stabilization*, 6.1. All gullies, rills, and any other disturbed areas must be fine graded prior to installation. Spread seed before RECP installation. (**Important:** Remove all large rocks, dirt clods, stumps, roots, grass clumps, trash, and other obstructions from the soil surface to allow for direct contact between the soil surface and the RECP.)

Terminal anchor trenches are required at RECP ends and intermittent trenches must be constructed across channels at 25-foot intervals. Terminal anchor trenches should be a minimum of 12 inches in depth and 6 inches in width, while intermittent trenches need be only 6 inches deep and 6 inches wide.

Construction Even if properly designed, if not properly installed, RECP's will probably not function as desired. Proper installation is imperative. Even if properly installed, if not properly timed and nourished, vegetation will probably not grow as desired. Proper seed/vegetation selection is also imperative.

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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes

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

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
◦ Temporary grass seed covered with straw or other mulches and tackifiers	◦ Permanent grass seed covered with straw or other mulches and tackifiers
◦ Hydroseeding	◦ Geotextile fabrics such as permanent soil reinforcement matting
◦ Rolled erosion control products with or without temporary grass seed	◦ Hydroseeding
◦ Appropriately applied straw or other mulch	◦ Shrubs or other permanent plantings covered with mulch
◦ Plastic sheeting	◦ Uniform and evenly distributed ground cover sufficient to restrain erosion
	◦ Structural methods such as concrete, asphalt or retaining walls
	◦ Rolled erosion control products with grass seed

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 Measures.
- Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

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 project.
- 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

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

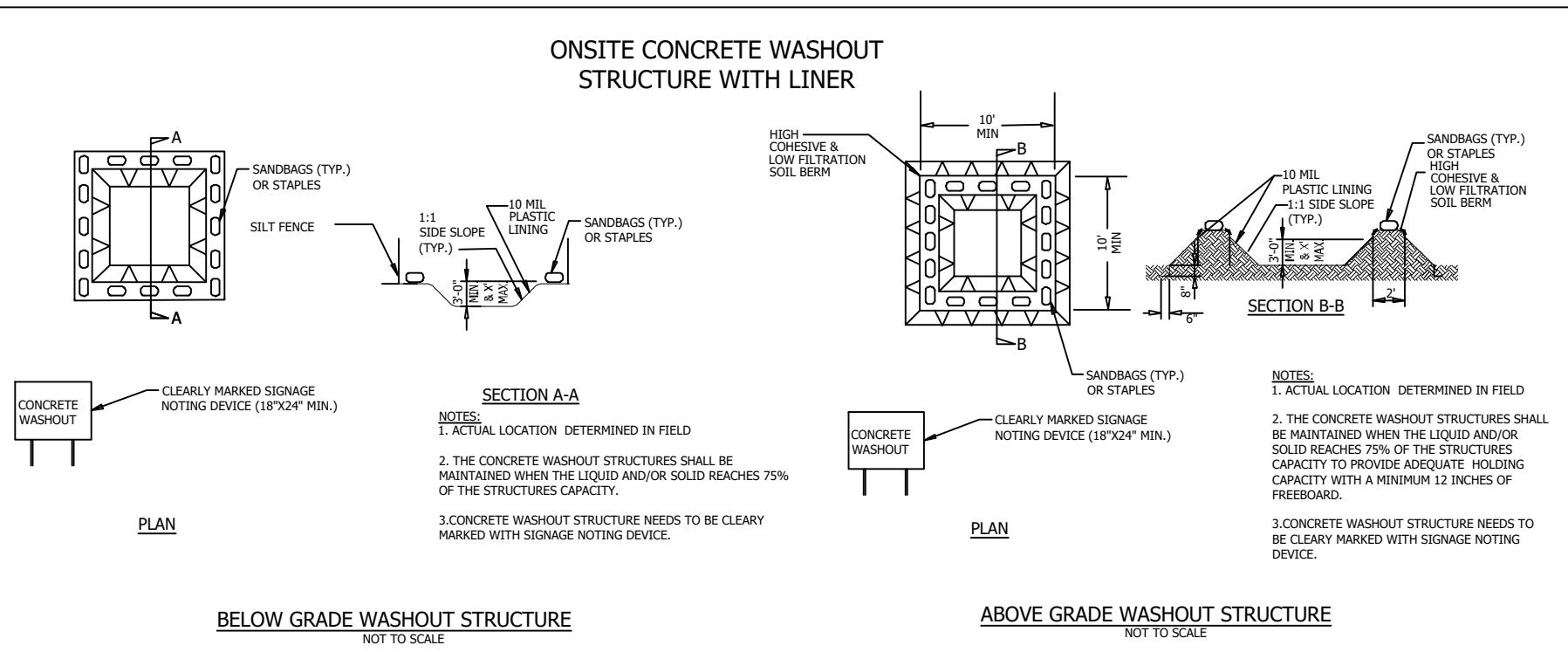
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled,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

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



- #### CONCRETE WASHOUTS
- Do not discharge concrete or cement slurry from the site.
 - Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
 - Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
 - Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
 - Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
 - Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
 - Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
 - Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
 - Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
 - At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

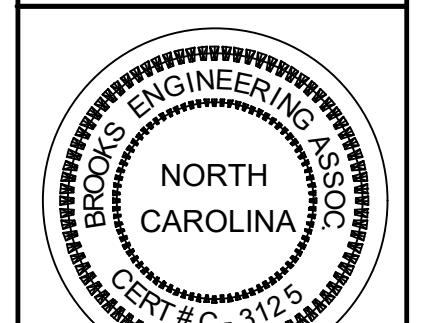
- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

Project No: 543521	Date: 01-12-2023
Drawing Title: C-3.10	Revision/Submissions: 1. HENDERSON COUNTY PLANNING 2. TRC SUBMITTAL
Revision Submission number within a triangle indicates changes made on this sheet	
 	
FINAL DRAWING - FOR REVIEW PURPOSES ONLY	
RICH MOUNTAIN PHASE 3 MAJOR SUBDIVISION HENDERSON COUNTY NORTH CAROLINA	
BROOKS ENGINEERING ASSOCIATES Planning • Engineering • Surveying • Environmental Services •	
File Location: L:\2021 Projects\543521_Ripple Falls_Ren Min Due Diligence\DWG\Phase 3\Ch-Details\543521_Ph3.dwg File Location: L:\2021 Projects\543521_Ripple Falls_Ren Min Due Diligence\DWG\Phase 3\Ch-Details\543521_Ph3.dwg	

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING																							
SECTION A: SELF-INSPECTION																							
<p>Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.</p> <table border="1"> <thead> <tr> <th>Inspect</th> <th>Frequency (during normal business hours)</th> <th>Inspection records must include:</th> </tr> </thead> <tbody> <tr> <td>(1) Rain gauge maintained in good working order</td> <td>Daily</td> <td>Daily rainfall amounts. 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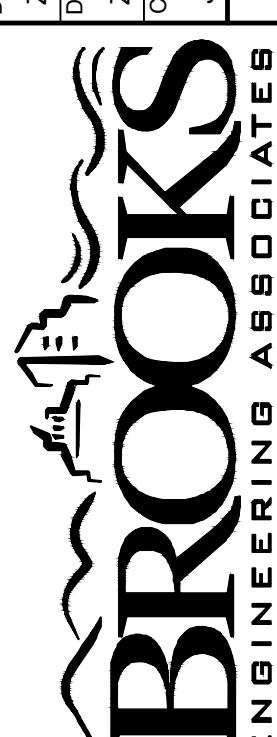
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SECTION B: RECORDKEEPING														
1. E&SC Plan Documentation														
<p>The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.</p> <table border="1"> <thead> <tr> <th>Item to Document</th> <th>Documentation Requirements</th> </tr> </thead> <tbody> <tr> <td>(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.</td> <td>Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.</td> </tr> <tr> <td>(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.</td> <td>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.</td> </tr> <tr> <td>(c) Ground cover is located and installed in accordance with the approved E&SC plan.</td> <td>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.</td> </tr> <tr> <td>(d) The maintenance and repair requirements for all E&SC measures have been performed.</td> <td>Complete, date and sign an inspection report.</td> </tr> <tr> <td>(e) Corrective actions have been taken to E&SC measures.</td> <td>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.</td> </tr> </tbody> </table>			Item to Document	Documentation Requirements	(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.	(b) A phase of grading has been completed. Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.	(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.	(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.	(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.
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2. Additional Documentation to be Kept on Site														
<p>In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:</p> <ul style="list-style-type: none"> (a) This General Permit as well as the Certificate of Coverage, after it is received. (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records. 														
3. Documentation to be Retained for Three Years														
<p>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]</p>														

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING														
SECTION C: REPORTING														
1. Occurrences that Must be Reported														
<p>Permittees shall report the following occurrences:</p> <ul style="list-style-type: none"> (a) Visible sediment deposition in a stream or wetland. (b) Oil spills if: <ul style="list-style-type: none"> • 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). (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85. (d) Anticipated bypasses and unanticipated bypasses. (e) Noncompliance with the conditions of this permit that may endanger health or the environment. 														
2. Reporting Timeframes and Other Requirements														
<p>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) 858-0368.</p>														
<table border="1"> <thead> <tr> <th>Occurrence</th> <th>Reporting Timeframes (After Discovery) and Other Requirements</th> </tr> </thead> <tbody> <tr> <td>(a) Visible sediment deposition in a stream or wetland</td> <td> <ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions. </td> </tr> <tr> <td>(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above</td> <td> <ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release. </td> </tr> <tr> <td>(c) Anticipated bypasses [40 CFR 122.41(m)(3)]</td> <td> <ul style="list-style-type: none"> • A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass. </td> </tr> <tr> <td>(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]</td> <td> <ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass. </td> </tr> <tr> <td>(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(1)(7)]</td> <td> <ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(1)(6)]. </td> </tr> </tbody> </table>			Occurrence	Reporting Timeframes (After Discovery) and Other Requirements	(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions. 	(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release. 	(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> • A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass. 	(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass. 	(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(1)(7)]	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(1)(6)].
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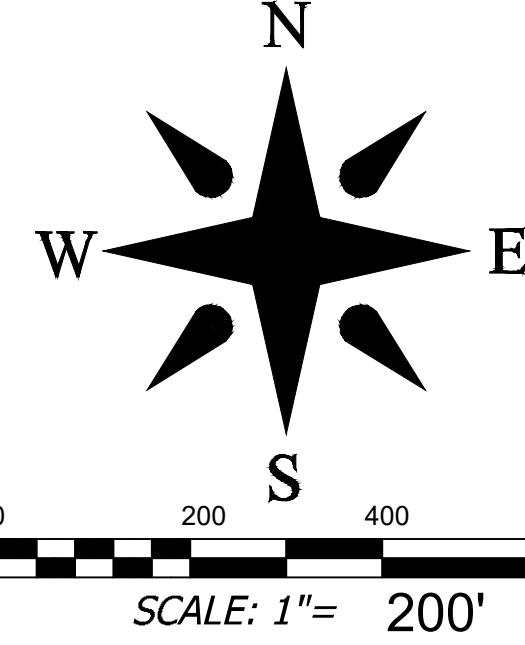
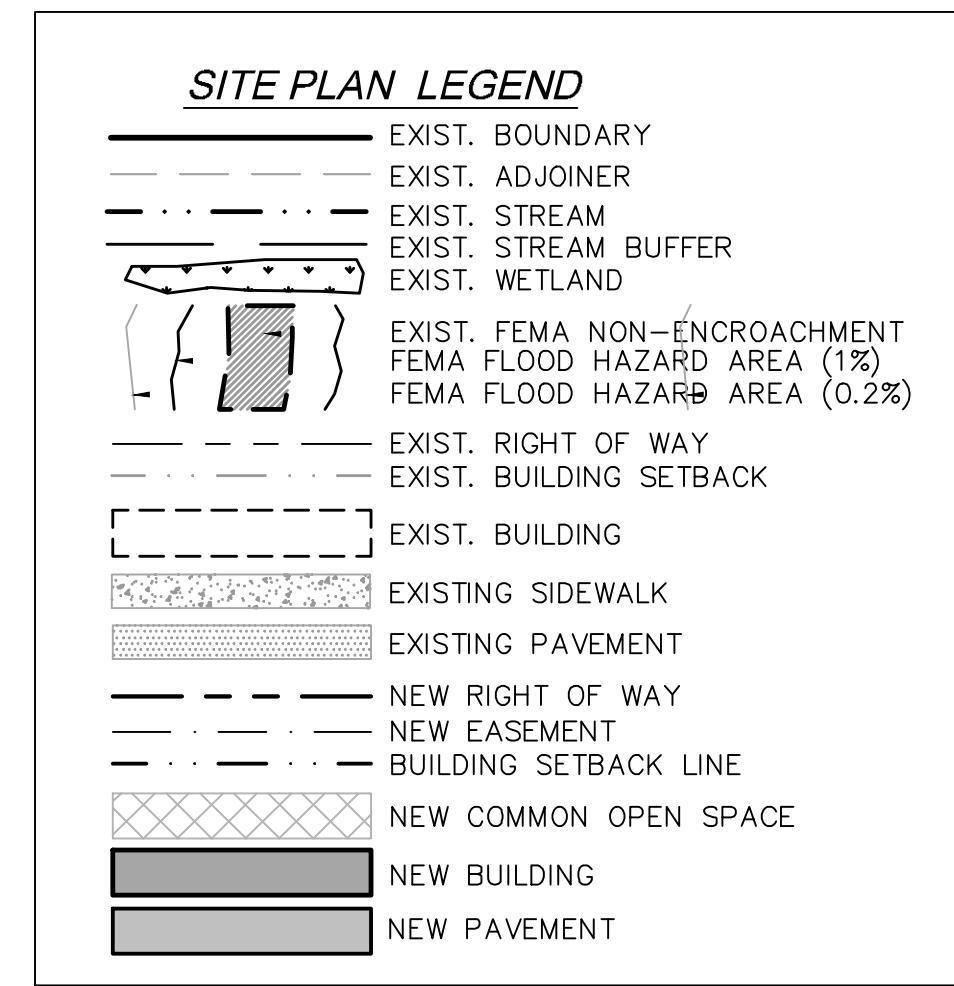
NORTH CAROLINA Environmental Quality	
RICH MOUNTAIN PHASE 3 MAJOR SUBDIVISION NORTH CAROLINA	HENDERSON COUNTY HENDERSON DETAILS C-3.11 EFFECTIVE: 04/01/19

No.	REVISIONS/SUBMISSIONS	Date
1	HENDERSON COUNTY PLANNING TRC SUBMITTAL	12-15-2022 0-1-2023
2		

Revision/Submission number within a triangle indicates changes made on this sheet

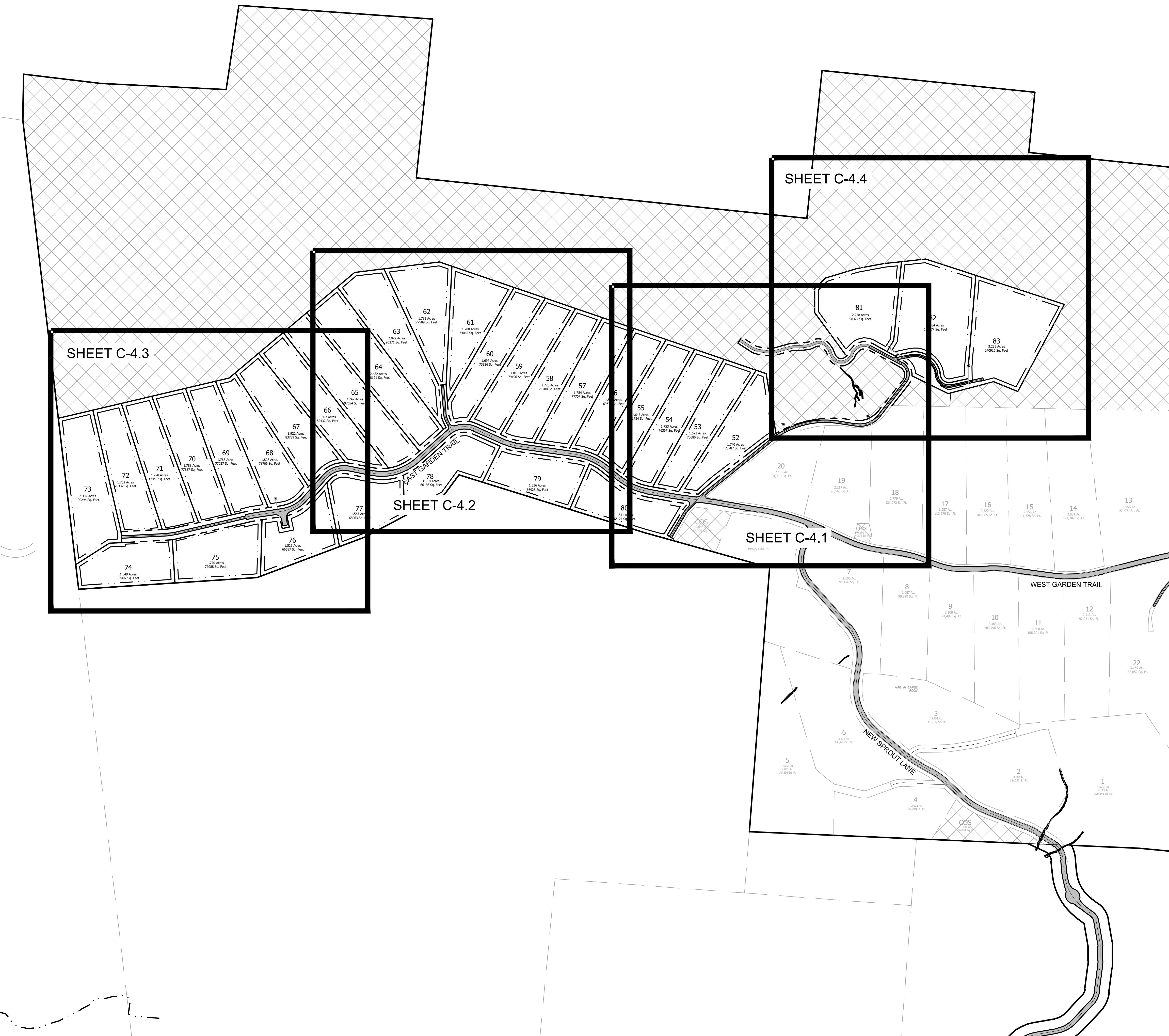
FINAL DRAWING - FOR REVIEW PURPOSES ONLY	
	<p>Reviewed: JHK Drawn: ZAW Checked: AS-NOTED Date: 01-12-2023</p> <p>Designed: ZAW Drawn: ZAW Checked: JHK Date: 01-12-2023</p> <p>15 Arlington Street Asheville, NC 28801 Phone: 1-828-232-4700 Fax: 1-828-232-1331 www.brooksea.com</p>

Project No: 543521
Drawing Title: NCG01 DETAILS
File Location: L:\2021 Projects\543521_Ripple Falls_Ren Min Due Diligence\DWG\Phase 3\Chd-Detail\543521_Pt3.dwg



DEVELOPMENT DATA	
PROPERTY ADDRESS:	LOCUST GROVE ROAD HENDERSONVILLE NC
PIN NUMBER:	SEE COVER SHEET
PROPERTY SIZE:	PH3: 150.06 AC - TOTAL: 377.96 AC.
ZONING REVIEW:	HENDERSON COUNTY
EROSION CONTROL REVIEW:	HENDERSON COUNTY
STORMWATER REVIEW:	HENDERSON COUNTY
ZONING CLASSIFICATION:	R3
PROPOSED NUMBER OF UNITS:	PH3: 32 - TOTAL: 83
PROPOSED DENSITY:	PH3: 0.21 LOTS/AC - TOTAL: 0.22 LOTS/AC
LOTS 1-51 AND 83 ARE LOCATED WITHIN A FARMLAND PRESERVATION DISTRICT. LOTS 52-82 ARE WITHIN 1/2 MILE OF A FARMLAND DISTRICT.	
WATER AND SEWER WILL BE PROVIDED BY INDIVIDUAL WELLS AND SEPTIC SYSTEMS.	
PUBLIC WATER AND SEWER ARE APPROXIMATELY 3.0 MILES FROM THE SITE.	
DRY HYDRANT IS LOCATED APPROXIMATELY 0.90 ROAD MILES FROM THE ENTRANCE TO THE SITE.	
PROPERTY OWNER: Ripple Falls LLC	
CONTACT: Andy Baker	
ADDRESS: 69 Clark Gap Road	
FLETCHER NC	
EMAIL: andy@fmcarolina.com	
PHONE: (616) 402-3367	
DEVELOPER: Ripple Falls LLC	
CONTACT: Andy Baker	
ADDRESS: 69 Clark Gap Road	
FLETCHER NC	
EMAIL: andy@fmcarolina.com	
PHONE: (616) 402-3367	
ENGINEER: Brooks Engineering Associates	
CONTACT: John Kinnaird, PE	
ADDRESS: 17 Arlington St	
ASHEVILLE, NC 28801	
EMAIL: jkinnaird@brooksea.com	
PHONE: 828-232-4700	

SITE AND ZONING NOTES	
PROPERTY ZONING:	R3
PROPERTY SIZE:	PH3: 150.06 AC TOTAL: 377.96 AC
PROPERTY STEEPER THAN 60%:	16.76 AC (6.82%)
MINIMUM LOT SIZE:	1.50 AC / 35,640 SQ.FT.
SMALLEST PROPOSED LOT:	1.52 ACRES / 66,136 SQ.FT.
COMMON OPEN SPACE:	158.73 AC. (42.0%)
MINIMUM LOT WIDTH:	30' @ R.O.W.
MAXIMUM BUILDING HEIGHT:	40'
SETBACKS:	
FRONT:	15' (LOCAL)
REAR:	15'
SIDE:	15'
PROPOSED LINEAR FEET OF ROAD:	
PHASE 1:	7,139 LF
PHASE 2:	3,681 LF
PHASE 3:	4,415 LF
TOTAL ON PROPERTY:	15,235 LF
*ALL DIMENSIONS ARE FROM EDGE OF ASPHALT, FACE OF CURB, FACE OF WALL, OR FACE OF BUILDING UNLESS OTHERWISE NOTED.	
*ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF DETAILS, SPECIFICATIONS, AND OTHER DEVELOPMENT ORDINANCES OF HENDERSON CO.	
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LANDSCAPING NOTES:	
1. STREET TREES SHALL BE LARGE DECIDUOUS TREES AND SELECTED FROM HENDERSON COUNTY'S LANDSCAPING RECOMMENDED SPECIES LIST.	
2. TREES SHALL BE HEALTHY AND IN COMPLIANCE WITH SPECIFICATIONS OF THE HENDERSON COUNTY LAND DEVELOPMENT CODE.	
3. STREET TREES SHALL BE AT LEAST 2 INCHES IN CALIPER AND 12' TALL AT PLANTING.	



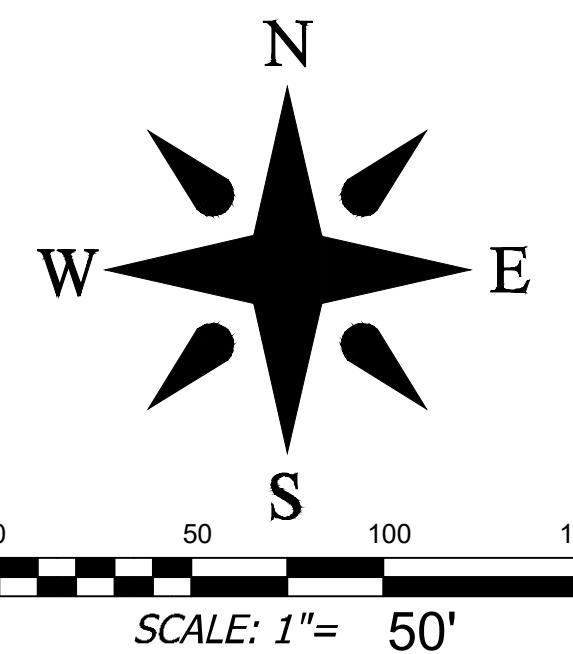
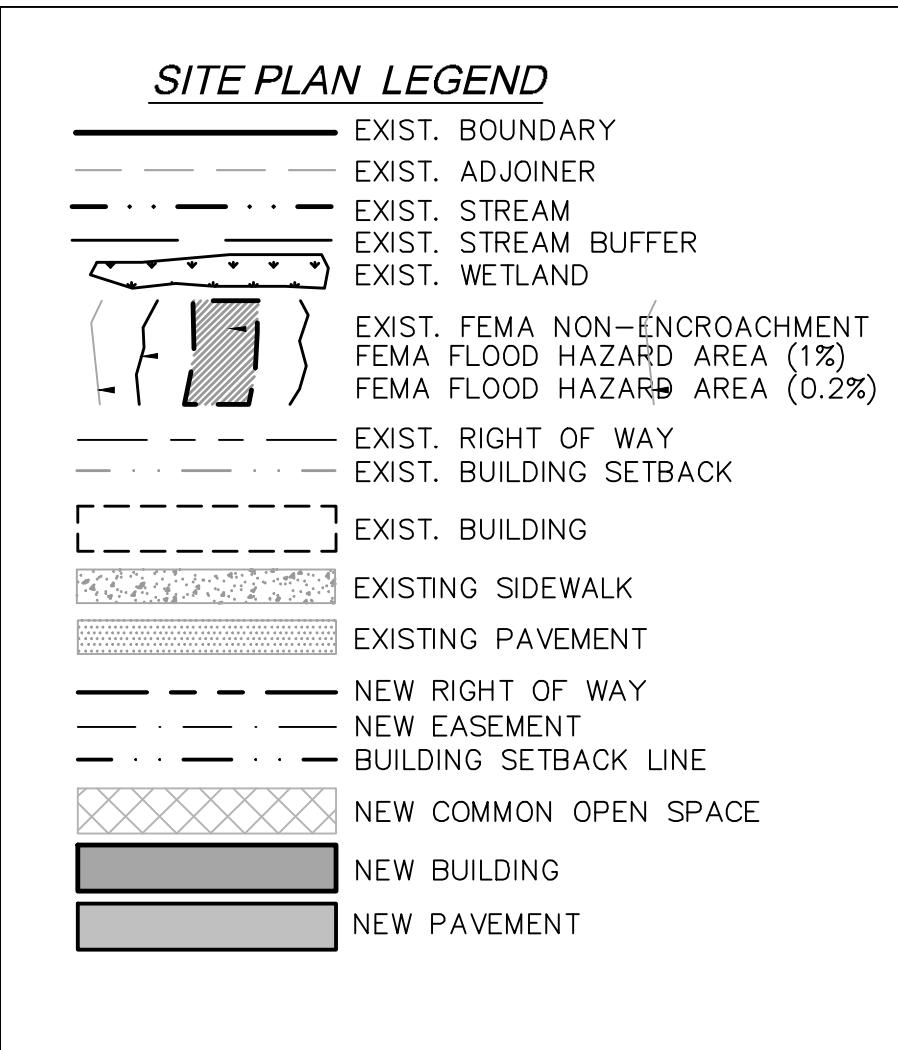
SEE CONTINUATION ON SHEET C-4.4

81

2.258 Acres
98377 Sq. Feet

**PROPOSED 10' SHARED DRIVEWAY (TYP)
SEE DETAIL ON SHEET C-4.5**

Vertical



SEE CONTINUATION ON SHEET C-4 2

SEE CONTINUATION ON SHEET C-4.4

The site plan map displays the following key features and data:

- Proposed Common Open Space (COS):** A large area labeled "PROPOSED COMMON OPEN SPACE" is shown in the upper right, spanning approximately 0.643 Acres (27,995 Sq. Ft.).
- Land Parcels:** Several land parcels are labeled with their respective acreages and square footage:
 - Lot 81: 2.258 Acres / 98,377 Sq. Ft.
 - Lot 55: 1.647 Acres / 71,754 Sq. Ft.
 - Lot 54: 1.753 Acres / 76,367 Sq. Ft.
 - Lot 53: 1.623 Acres / 70,680 Sq. Ft.
 - Lot 52: 1.740 Acres / 75,787 Sq. Ft.
 - Lot 20: 2.105 Ac. / 91,710 Sq. Ft.
 - Lot 19: 2.217 Ac. / 96,565 Sq. Ft.
 - Lot 18: 2.779 Ac. / 121,072 Sq. Ft.
 - Lot 80: 1.541 Acres / 71,27 Sq. Ft.
 - Lot 21: 3.352 Ac. / 146,005 Sq. Ft.
 - COS: 0.643 Ac. / 27,995 Sq. Ft.
 - COS: 0.101 Ac. / 4,378 Sq. Ft.
- Roads and Driveways:**
 - A paved road labeled "WEST GARDEN TRAIL" runs through the center of the map.
 - Shared driveways are indicated for Lots 81, 82, and 83, serving Lots 81, 82, and 83.
 - Proposed 20' paved roads are shown for Lots 52 and 20.
 - Proposed 10' shared driveways serve Lots 81-83.
 - Proposed 30' right-of-way is shown for Lots 20 and 19.
 - Proposed 45' right-of-way is shown for Lots 21 and 18.
- Infrastructure:**
 - Existing logging roads and streams are marked.
 - Proposed stormwater infrastructure is detailed for Lots 52 and 20.
 - Existing construction easements are noted.
 - Connection to existing roads is planned for Lots 20 and 19.
- Survey Data:** Numerous survey points (e.g., L62, L63, L64, L65, L66, L67, L68, L69, L70, L71, L72, L73) and coordinates (e.g., N 71°08'00" W 136°, S 39°41'54" W 55°) are provided along the property lines.
- Grid System:** A grid system is overlaid on the map, with horizontal and vertical grid lines intersecting at various points.

The image displays two circular engineering seals side-by-side. The top seal is for 'NORTH CAROLINA PROFESSIONAL ENGINEER' and the bottom seal is for 'BROOKS ENGINEERING'. Both seals include names, serial numbers, and review codes.

Top Seal (North Carolina Professional Engineer):

- Text: NORTH CAROLINA PROFESSIONAL ENGINEER
- Text: SEAL 035686
- Text: JOHN H. KINNAIRD, III
- Text: DocSigned by [Signature]
- Text: 1CA1CB53248944...

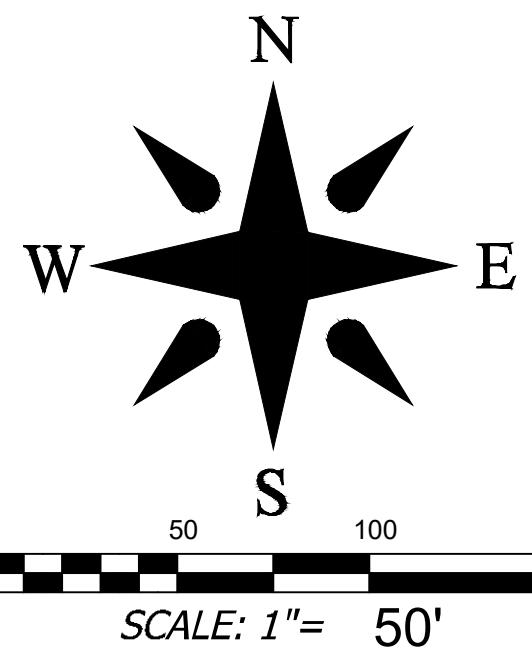
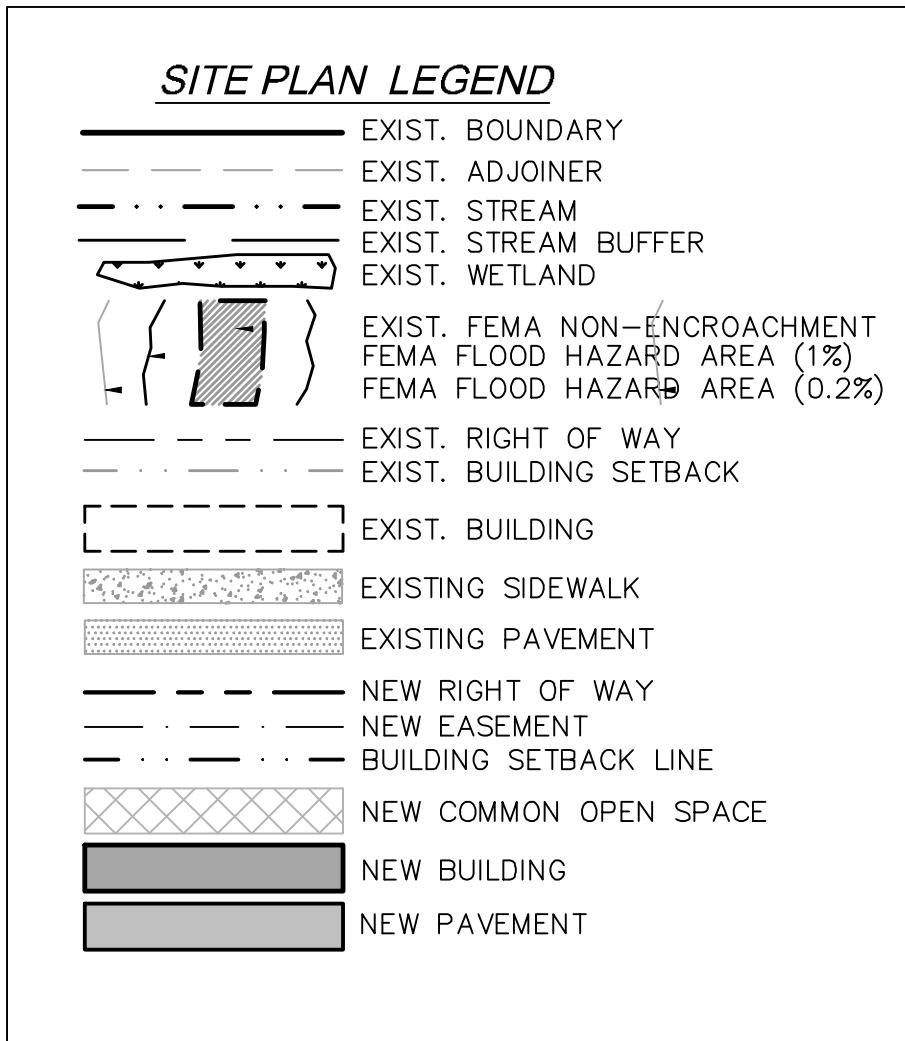
Bottom Seal (Brooks Engineering):

- Text: BROOKS ENGINEERING
- Text: NORTH CAROLINA
- Text: COSSA-CGC
- Text: CERT # C-3125

JHK	Scale: AS NOTED	Date: 01-12-2023	5 Arlington Street Greenville, N.C. 28801 Phone: 1-828-232-4700 Fax: 1-828-232-1331 www.brooksea.com
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The logo for Brooks Engineering Associates is a vertical design. On the left, there is a stylized graphic of waves and a bridge silhouette. The word "BROOKS" is written in large, bold, black, serif capital letters. To the right of "BROOKS", the words "ENGINEERING ASSOCIATES" are written vertically in smaller, all-caps, sans-serif font.

C-4.1	<p>RICH MOUNTAIN PHASE 3</p> <p>MAJOR SUBDIVISION</p> <p>HENDERSON COUNTY</p>	NORTH CAROLINA	<p>SITE PLAN</p> <p>awing Title:</p> <p>Location: I:\2021 Projects\543521 Ripple Falls Rich Mtn. Due Diligence\Draw (Phase 3)\Civil\Base-543521 BH3-dwa</p>
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SITE AND ZONING NOTES

PROPERTY ZONING: R3
PROPERTY SIZE: PH3: 150.06 AC | TOTAL: 377.96 AC
PROPERTY STEEPER THAN 60%: 16.76 AC (6.82%)
MINIMUM LOT SIZE: 1.50 AC / 35,640 SQ.FT.
SMALLEST PROPOSED LOT: 1.52 ACRES / 66,136 SQ.FT.
COMMON OPEN SPACE: 158.73 AC. (42.0%)
MINIMUM LOT WIDTH: 30' @ R.O.W.
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SETBACKS:
FRONT: 15' (LOCAL)
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PHASE 3: 4,415 LF
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LANDSCAPING NOTES:
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DEVELOPMENT DATA

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PIN NUMBER: SEE COVER SHEET
PROPERTY SIZE: PH3: 150.06 AC. - TOTAL: 377.96 AC.
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EROSION CONTROL REVIEW: HENDERSON COUNTY
STORMWATER REVIEW: HENDERSON COUNTY
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DRY HYDRANT IS LOCATED APPROXIMATELY 0.90 ROAD MILES FROM THE ENTRANCE TO THE SITE.
PROPERTY OWNER: RIPPLE FALLS LLC
CONTACT: ANDY BAKER
ADDRESS: 69 CLARK GAP ROAD FLETCHER NC
EMAIL: ANDY@FMCAROLINA.COM
PHONE: (616) 402-3367
DEVELOPER: RIPPLE FALLS LLC
CONTACT: ANDY BAKER
ADDRESS: 69 CLARK GAP ROAD FLETCHER NC
EMAIL: ANDY@FMCAROLINA.COM
PHONE: (616) 402-3367
ENGINEER: BROOKS ENGINEERING ASSOCIATES
CONTACT: JOHN KINNARD, PE
ADDRESS: 17 ARLINGTON ST
ASHEVILLE, NC 28801
EMAIL: JKINNARD@BROOKSEA.COM
PHONE: 828-232-4700

SEE CONTINUATION ON SHEET C-4.3

77
1.563 Acres
68063 Sq. Feet

RICH MOUNTAIN PHASE 3
MAJOR SUBDIVISION

78
1.518 Acres
66136 Sq. Feet

79
1.536 Acres
66928 Sq. Feet

66
1.892 Acres
82432 Sq. Feet

65
2.242 Acres
97654 Sq. Feet

64
2.482 Acres
108121 Sq. Feet

63
2.072 Acres
90271 Sq. Feet

62
1.781 Acres
77589 Sq. Feet

61
1.700 Acres
74065 Sq. Feet

60
1.697 Acres
73926 Sq. Feet

59
1.818 Acres
79196 Sq. Feet

58
1.728 Acres
75280 Sq. Feet

57
1.784 Acres
77707 Sq. Feet

56
1.599 Acres
69672 Sq. Feet

PROPOSED COMMON OPEN SPACE

PROJECT BOUNDARY (TYP)

PROPOSED 15' SETBACK (TYP)

PROPOSED LOT LINE (TYP)

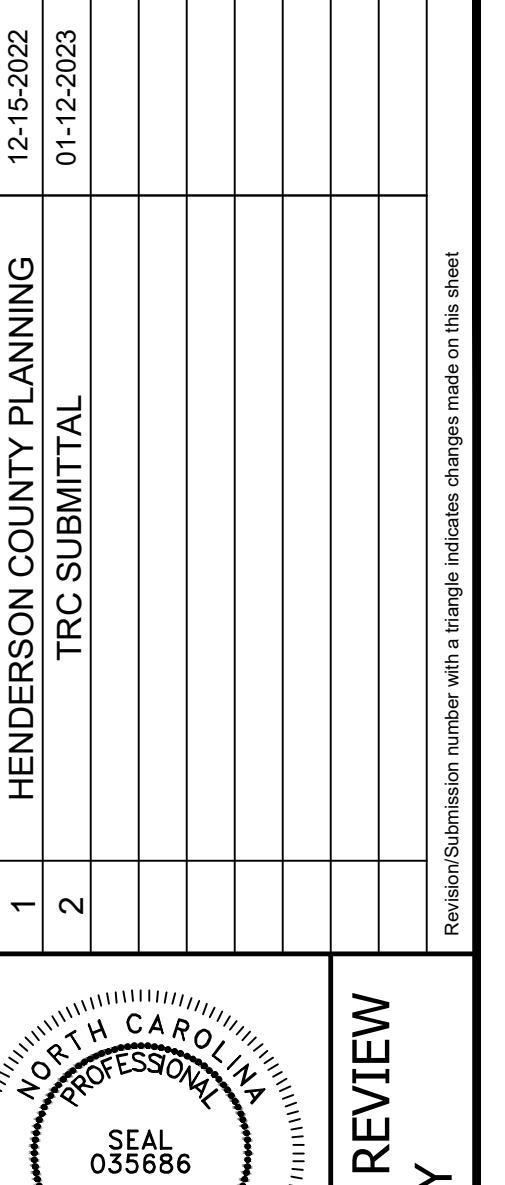
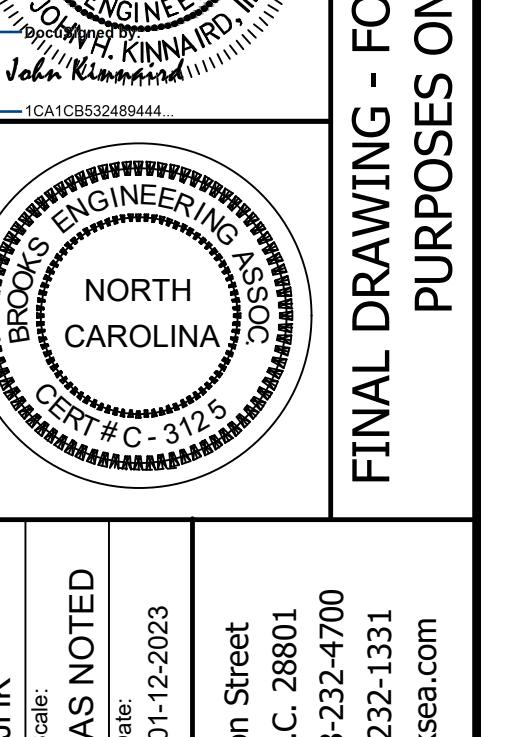
PROPOSED 10' SHARED DRIVEWAY (TYP)
SEE DETAIL ON SHEET C-4.5
DRIVE SERVES LOTS 61-63

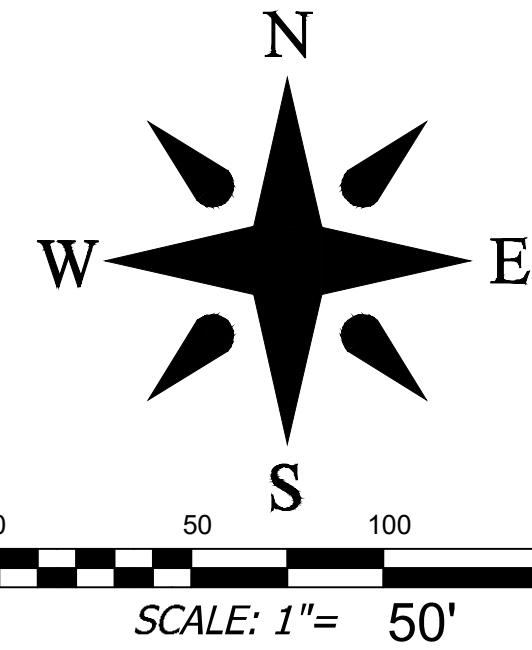
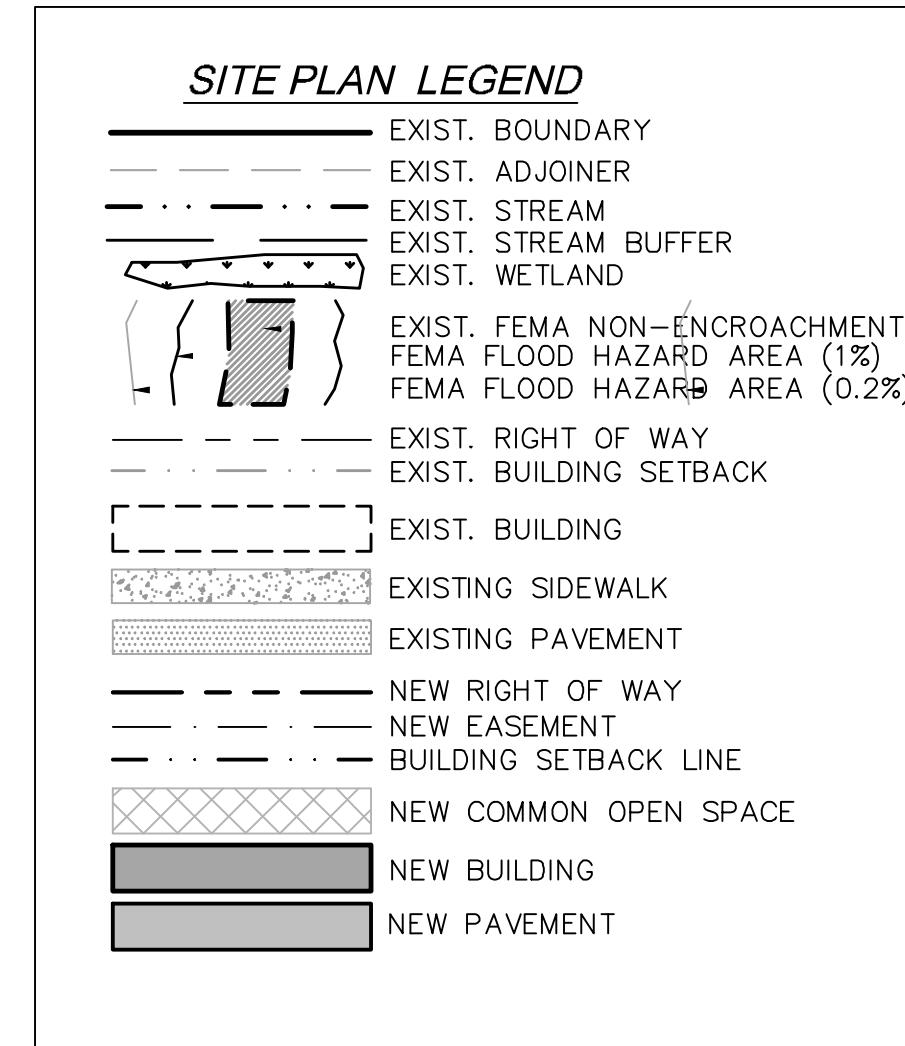
PROPOSED 30' RIGHT-OF-WAY (TYP)

PROPOSED 45' RIGHT-OF-WAY (TYP)

PROPOSED 20' PAVED ROAD (TYP)
SEE DETAIL ON SHEET C-4.5

SEE CONTINUATION ON SHEET C-4.1

Project No:	543521	Reviewed:	JHK
Date:	12-5-2022	Scale:	ZAW
No.	1	Drawn:	ZAW
REVISIONS/SUBMISSIONS	HENDERSON COUNTY PLANNING		
	TRC SUBMITTAL		
Date:	01-12-2023		
No.	2	Checked:	JHK
REVISION number within a triangle indicates changes made on this sheet			
 JOHN KINNARD III 1CA1CB53248944  BROOKS ENGINEERING ASSOCIATES Planning • Engineering • Surveying • Environmental Services •			
FINAL DRAWING - FOR REVIEW PURPOSES ONLY			
File Location: L:\2021 Projects\543521 Ripple Falls\Rich Mtn. Due Diligence\DWG\Phase 3\C4-1.dwg File Name: 543521_Ripple_Falls_Rich_Mtn_Due_Diligence_Dwg_Phase_3\C4-1.dwg			



SITE AND ZONING NOTES

PROPERTY ZONING: R3
PROPERTY SIZE: PH3: 150.06 AC | TOTAL: 377.96 AC
PROPERTY STEEPER THAN 60%: 16.76 AC (6.82%)
MINIMUM LOT SIZE: 1.50 AC. / 35,640 SQ.FT.
SMALLEST PROPOSED LOT: 1.52 ACRES / 66,136 SQ.FT.
COMMON OPEN SPACE: 158.73 AC. (42.0%)
MINIMUM LOT WIDTH: 30' @ R.O.W.
MAXIMUM BUILDING HEIGHT: 40'
SETBACKS:
FRONT: 15' (LOCAL)
REAR: 15'
SIDE: 15'

PROPOSED LINEAR FEET OF ROAD:
PHASE 1: 1,139 LF
PHASE 2: 3,681 LF
PHASE 3: 4,415 LF
TOTAL ON PROPERTY: 15,235 LF
*ALL DIMENSIONS ARE FROM EDGE OF
ASPHALT, FACE OF CURB, FACE OF WALL,
OR FACE OF BUILDING UNLESS OTHERWISE
NOTED.

*ALL CONSTRUCTION SHALL BE IN
ACCORDANCE WITH THE LATEST EDITION OF
DETAILS, SPECIFICATIONS, AND OTHER
DEVELOPMENT ORDINANCES OF HENDERSON CO.
*ALL COMMON OPEN SPACE AREAS WILL BE MAINTAINED
BY THE HOME OWNERS ASSOCIATION.

LANDSCAPING NOTES:
1. STREET TREES SHALL BE LARGE DECIDUOUS TREES
AND SELECTED FROM HENDERSON COUNTY'S
LANDSCAPING RECOMMENDED SPECIES LIST.
2. TREES SHALL BE HEALTHY AND IN COMPLIANCE WITH
SPEC. 42-10 OF THE HENDERSON COUNTY LAND
DEVELOPMENT CODE.
3. STREET TREES SHALL BE AT LEAST 2 INCHES IN
CALIPER AND 12' TALL AT PLANTING.

DEVELOPMENT DATA

PROPERTY ADDRESS: LOCUST GROVE ROAD
HENDERSONVILLE NC
PIN NUMBER: SEE COVER SHEET
PROPERTY SIZE: PH3: 150.06 AC. | TOTAL: 377.96 AC.
ZONING REVIEW: HENDERSON COUNTY
EROSION CONTROL REVIEW: HENDERSON COUNTY
STORMWATER REVIEW: HENDERSON COUNTY
ZONING CLASSIFICATION: R3
PROPOSED NUMBER OF UNITS: PH3: 32 - TOTAL: 83
PROPOSED DENSITY: 0.21 LOTS/AC - TOTAL: 0.22 LOTS/AC
LOTS 1-51 AND 83 ARE LOCATED WITHIN A FARMLAND PRESERVATION
DISTRICT. LOTS 52-82 ARE WITHIN 1/2 MILE OF A FARMLAND
DISTRICT.

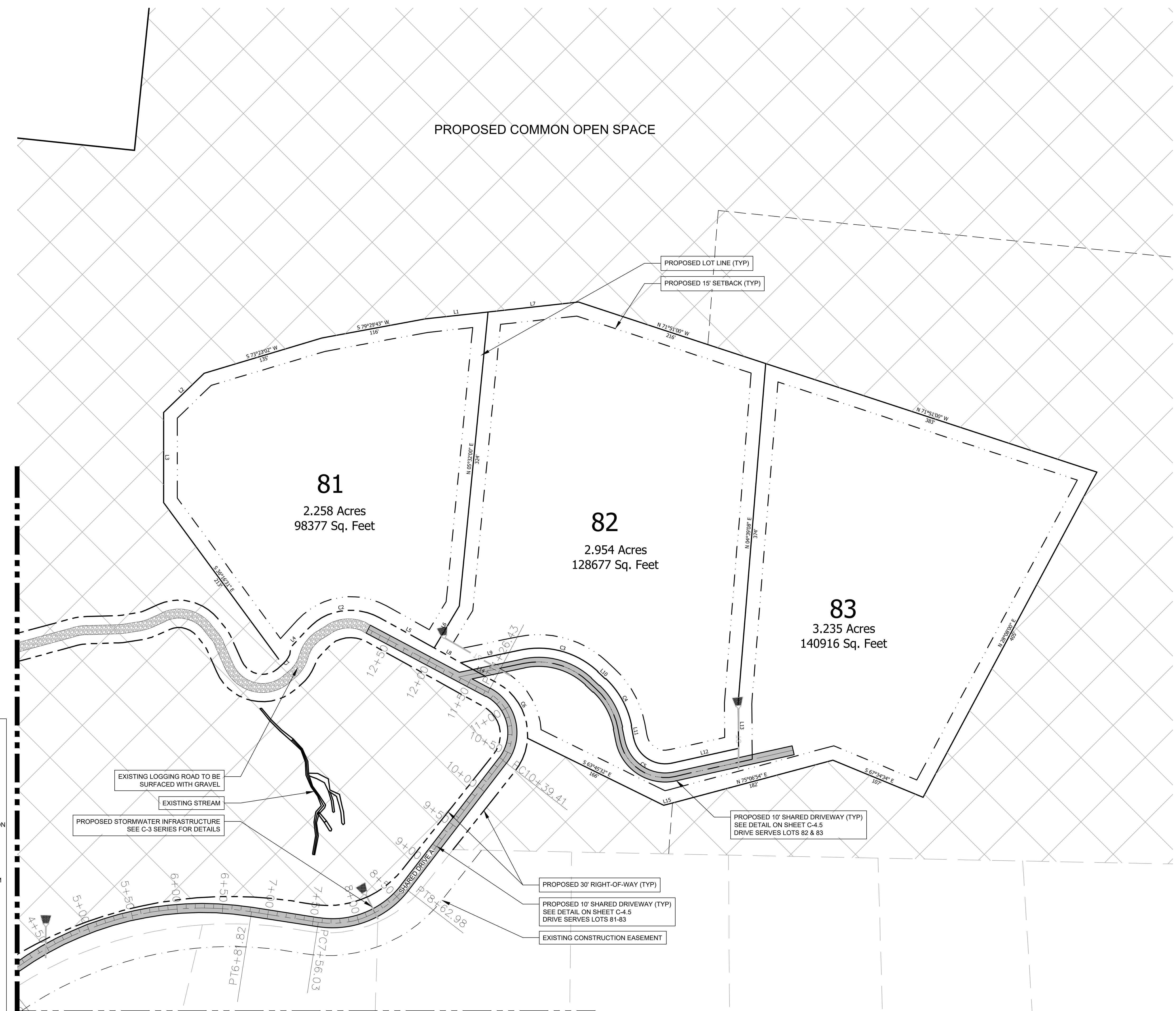
WATER AND SEWER WILL BE PROVIDED BY INDIVIDUAL WELLS AND
SEPTIC SYSTEMS
PUBLIC WATER AND SEWER ARE APPROXIMATELY 3.0 MILES FROM
THE SITE

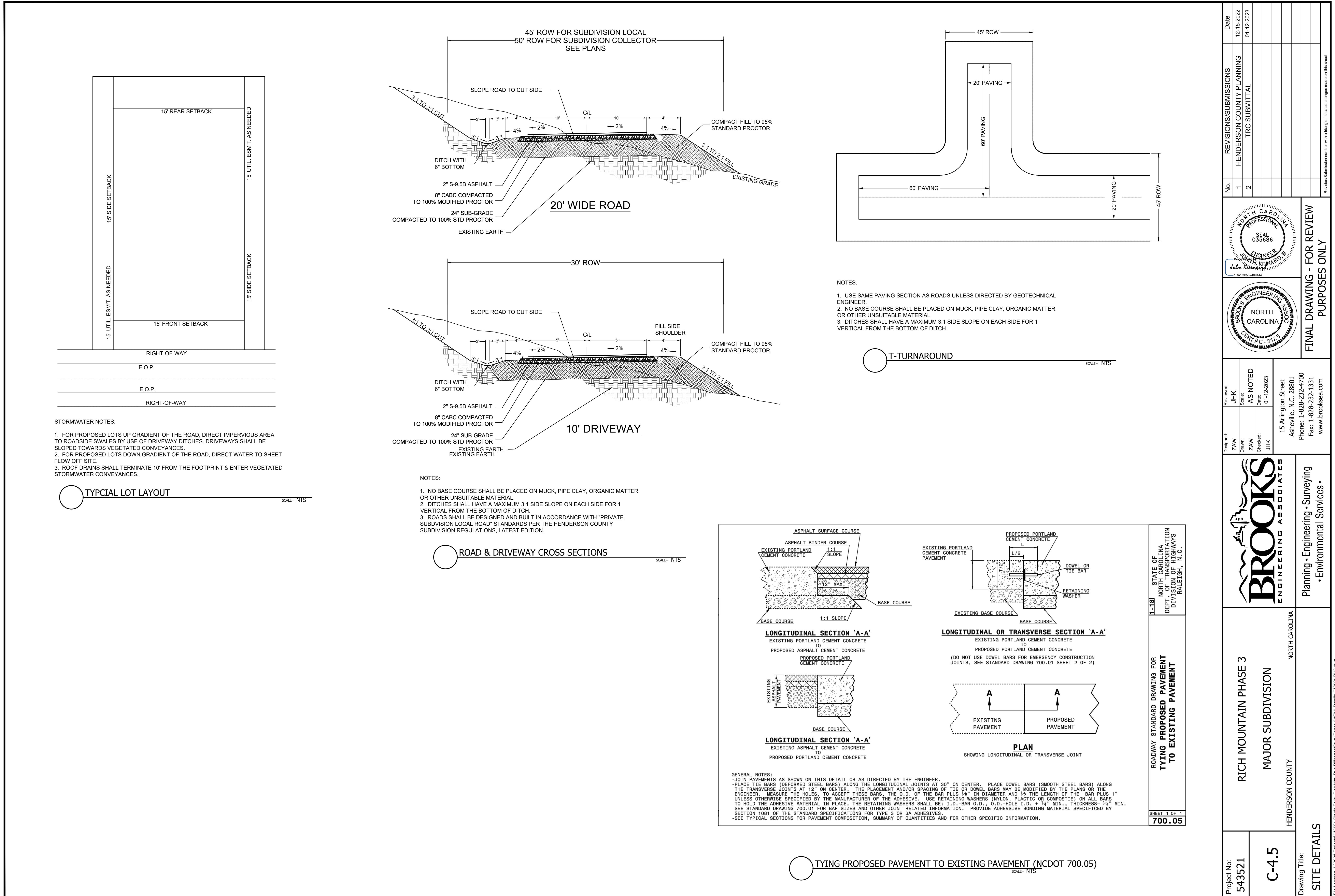
DRY HYDRANT IS LOCATED APPROXIMATELY 0.90 ROAD MILES FROM
THE ENTRANCE TO THE SITE.

PROPERTY OWNER: RIPPLE FALLS LLC
CONTACT: ANDY BAKER
ADDRESS: 69 CLARK GAP ROAD
FLETCHER NC
EMAIL: ANDY@FMCAROLINA.COM
PHONE: (616) 402-3367

DEVELOPER: RIPPLE FALLS LLC
CONTACT: ANDY BAKER
ADDRESS: 69 CLARK GAP ROAD
FLETCHER NC
EMAIL: ANDY@FMCAROLINA.COM
PHONE: (616) 402-3367

ENGINEER: BROOKS ENGINEERING ASSOCIATES
CONTACT: JOHN KINNARD, PE
ADDRESS: 17 ARLINGTON ST
ASHEVILLE, NC 28801
EMAIL: JKINNARD@BROOKSEA.COM
PHONE: 828-232-4700





LINE	BEARING	DISTANCE
L1	S 45°54'39" W	61.72'
L2	S 00°00'00" E	99.04'
L3	N 42°44'08" E	37.12'
L4	S 60°58'28" E	68.29'
L5	N 31°07'06" E	53.70'
L6	S 83°43'59" W	99.84'
L7	S 60°58'28" E	33.23'
L8	N 78°12'33" E	67.46'
L9	S 46°50'57" E	11.66'
L10	S 10°56'53" E	13.90'
L11	N 77°30'03" E	74.96'
L12	N 00°35'19" W	49.55'
L13	S 60°58'28" E	45.88'
L14	N 75°06'54" E	10.16'
L15	N 42°01'23" E	16.63'
L16	S 78°32'40" E	99.77'
L17	S 51°06'19" E	75.39'
L18	S 82°02'19" E	44.50'
L19	S 47°08'09" W	3.92'
L20	S 53°14'11" W	14.32'
L21	N 81°29'40" W	18.79'
L22	N 74°27'28" W	69.18'
L23	N 79°43'21" W	19.22'
L24	S 48°17'03" W	34.22'
L25	S 60°48'44" W	10.87'
L26	S 72°40'31" E	57.24'
L27	S 60°48'44" W	10.87'
L28	S 03°02'48" E	7.50'
L29	S 86°57'12" W	50.93'
L30	N 13°02'49" W	7.46'
L31	N 69°20'46" E	14.95'
L32	S 81°30'07" W	23.80'
L33	S 11°37'12" E	47.24'
L34	S 78°22'48" W	30.00'
L35	N 11°37'12" W	48.28'
L36	S 81°40'46" W	73.94'
L37	S 78°32'40" E	99.77'
L38	N 42°01'01" E	78.15'
L39	S 76°47'32" W	57.83'
L40	N 81°30'07" E	56.78'
L41	N 42°01'01" E	52.60'
L42	S 49°54'20" W	33.21'
L43	S 76°47'32" W	22.27'
L44	N 76°57'11" E	55.72'
L45	N 13°02'49" W	7.50'
L46	N 76°57'11" E	22.56'
L47	N 81°30'07" E	56.78'
L48	N 86°57'12" E	21.27'
L49	S 03°02'48" E	7.50'
L50	N 03°02'48" W	45.00'
L51	S 65°48'53" E	33.58'
L52	S 81°40'19" E	74.41'
L53	S 04°56'47" E	44.59'
L54	S 30°24'51" E	9.37'
L55	S 04°56'47" E	71.45'
L56	N 71°08'00" W	53.48'
L57	N 85°03'13" E	30.00'
L58	S 49°30'38" W	92.03'
L59	N 30°24'51" W	9.42'
L60	S 49°54'20" W	34.71'
L61	N 71°08'00" W	42.95'
L62	S 82°02'19" E	51.92'
L63	S 82°02'19" E	29.25'
L64	N 47°08'09" E	49.51'
L65	S 51°06'19" E	75.39'
L66	S 81°40'19" E	30.12'

LINE TABLE

SCALE= NTS

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	35.00'	8.51'	8.49'	N 49°41'54" E	13°55'32"
C2	65.00'	86.55'	80.30'	N 80°52'50" E	76°17'24"
C3	95.00'	91.10'	87.65'	S 74°19'12" E	54°56'30"
C4	95.00'	59.53'	58.56'	S 28°53'55" E	35°54'04"
C5	35.00'	55.93'	50.16'	S 56°43'25" E	91°33'04"
C6	65.00'	73.06'	69.27'	S 28°46'26" E	64°24'03"
C7	77.50'	80.39'	76.84'	N 71°44'16" E	59°26'08"
C8	222.50'	134.62'	132.58'	N 84°07'20" E	34°40'00"
C9	227.50'	60.68'	60.50'	S 58°44'49" E	15°17'00"
C10	272.50'	136.10'	134.69'	S 65°24'50" E	28°37'02"
C11	115.01'	32.81'	32.70'	S 38°57'45" W	16°20'46"
C12	227.50'	113.63'	112.45'	N 65°24'50" W	28°37'02"
C13	177.50'	38.83'	38.75'	S 54°32'45" W	12°31'58"
C14	177.50'	62.96'	62.63'	S 70°58'23" W	20°19'18"
C15	227.50'	60.68'	60.50'	N 74°01'49" W	15°17'00"
C16	189.20'	62.26'	61.98'	N 71°53'40" W	18°51'15"
C17	77.50'	91.86'	86.57'	S 80°13'50" W	67°54'35"
C18	222.50'	48.69'	48.59'	S 54°32'37" W	12°32'14"
C19	222.50'	23.21'	23.20'	S 63°48'02" W	5°58'36"
C20	165.00'	14.97'	14.96'	S 84°21'15" W	5°11'53"
C21	165.00'	13.83'	13.82'	S 79°21'15" W	4°48'08"
C22	343.13'	36.66'	36.64'	S 77°53'27" W	6°07'17"
C23	172.50'	100.27'	98.86'	S 60°07'22" W	33°18'13"
C24	123.49'	15.97'	15.96'	S 82°30'43" E	7°24'41"
C25	177.50'	62.96'	62.63'	S 88°42'19" E	20°19'18"
C26	123.49'	112.14'	108.33'	S 67°46'02" E	52°01'49"
C27	127.50'	42.32'	42.12'	N 71°59'40" E	19°00'56"
C28	127.50'	42.32'	42.12'	N 52°58'44" E	19°00'56"
C29	222.50'	17.67'	17.66'	N 79°13'39" E	4°32'56"
C30	135.00'	23.56'	23.53'	N 81°57'12" E	10°00'01"
C31	127.50'	35.29'	35.17'	S 73°44'36" E	15°51'27"
C32	122.50'	33.04'	32.94'	S 73°32'31" E	15°27'17"
C33	85.00'	37.78'	37.47'	S 17°40'49" E	25°28'04"
C34	122.50'	68.83'	67.93'	N 82°38'05" E	32°11'32"
C35	122.50'	13.25'	13.24'	N 49°22'25" E	6°11'45"
C36	115.00'	51.12'	50.70'	N 17°40'49" W	25°28'04"
C37	515.00'	45.79'	45.77'	N 49°40'58" E	5°05'39"
C38	465.00'	62.61'	62.56'	N 56°05'14" E	7°42'52"
C39	127.50'	5.15'	5.15'	S 80°52'50" E	2°18'58"
C40	272.50'	56.14'	56.04'	S 57°00'24" E	11°48'11"
C41	272.50'	89.24'	88.84'	S 72°17'25" E	18°45'49"

CURVE TABLE

SCALE= NTS

Project No: 543521	RICH MOUNTAIN PHASE 3		MAJOR SUBDIVISION		HENDERSON COUNTY		NORTH CAROLINA		Planning • Engineering • Surveying • Environmental Services •		
C-4.6		LINE AND CURVE TABLES									
Drawing Title:											
LINE TABLE											
SCALE= NTS											
CURVE TABLE											
SCALE= NTS											
LINE AND CURVE TABLES											
Drawing Title:											
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Drawing Title:											
LINE TABLE											
SCALE= NTS											
CURVE TABLE											
SCALE= NTS											

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Envelope Originator:

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John Kinnaird

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15 Arlington Street

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Asheville, NC 28801

jkinnaird@brooksea.com

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Payment Events**Status****Timestamps**

Revised Master and Phase III Development Plan for Sprout (Rich) Mountain (2021-M09)



**Henderson County Planning Board
January 19, 2023**

Henderson County Planning Department

1

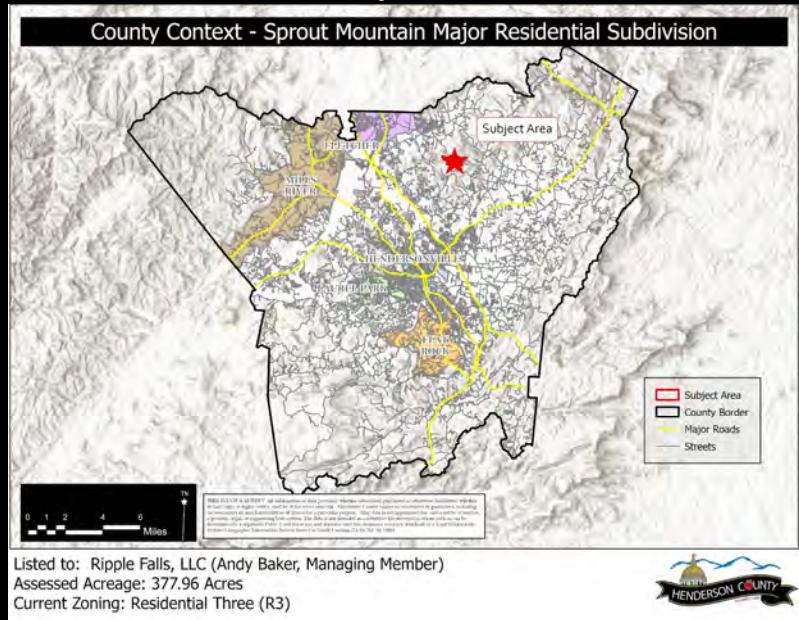
Project Summary

- Ripple Falls, LLC (Applicant)
 - Andy Baker (Managing Member)
 - Brooks Engineering (Plan Preparer)
- Revised total of 83 single-family lots
 - Original approval of 60 total single-family lots
 - Planning Board approval on 12/16/21
 - 23 new lots in Phase III
- Revised subject area of 377.96 acres
 - Original subject area was 245.86 acres
 - Phase III total area is 82.78 acres
- Revised open space total of 154.75 acres (42%)
 - Original open space was shown as 79.63 acres
- 4,415LF of proposed private roadway
 - Increase of 197LF from the original approval

Henderson County Planning Department

2

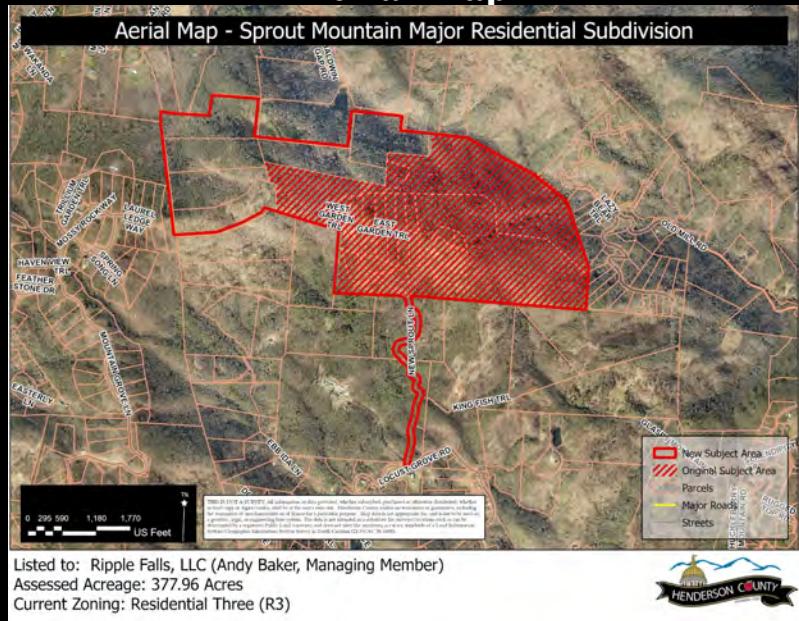
County Context



Henderson County Planning Department

3

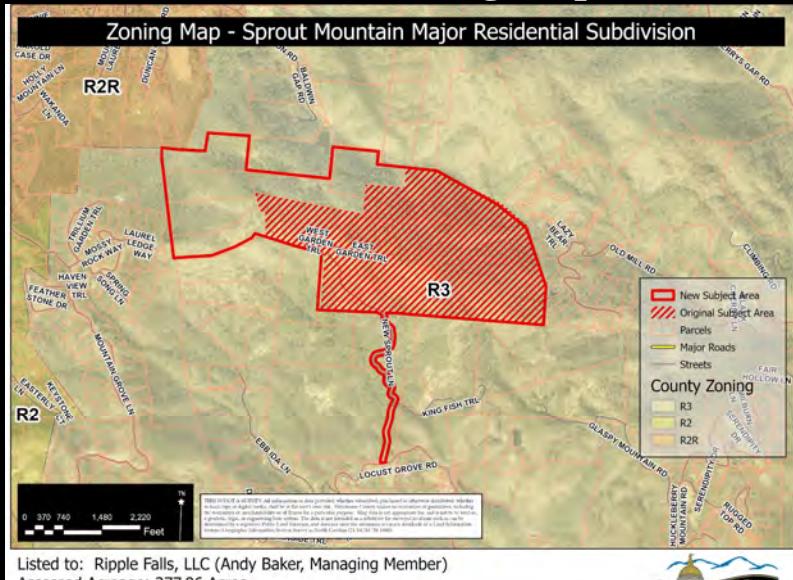
Aerial Map



Henderson County Planning Department

4

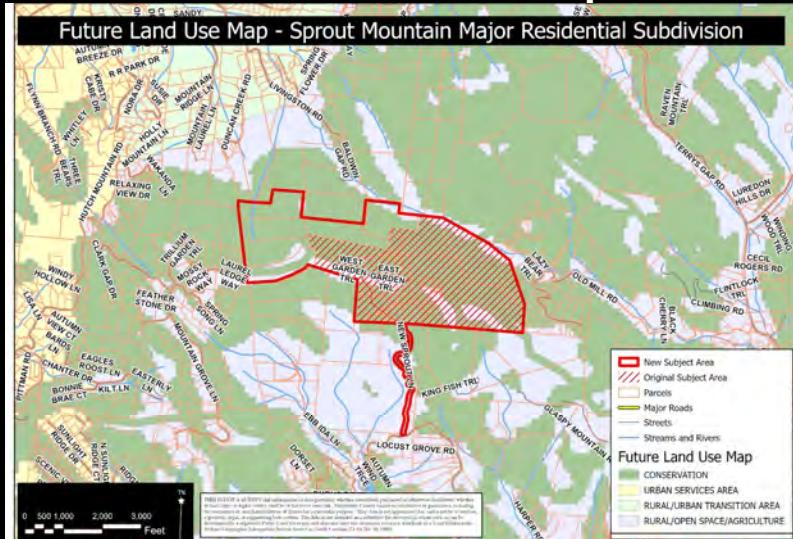
Current Zoning Map



Henderson County Planning Department

5

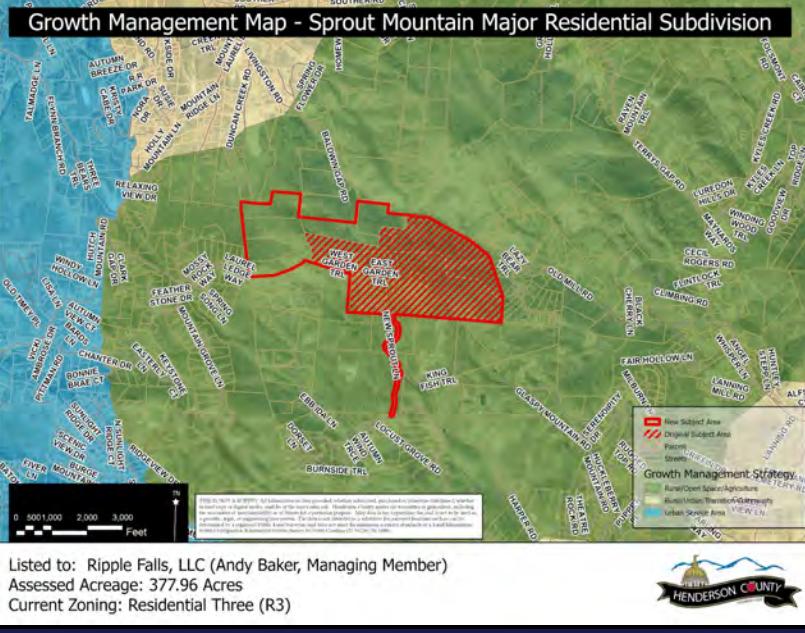
Future Land Use Map



Henderson County Planning Department

6

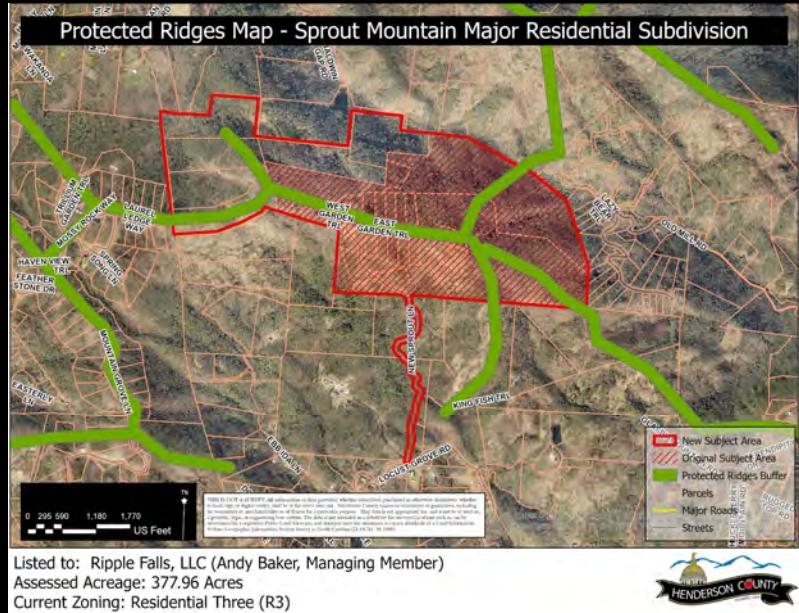
Growth Management Strategies Map



Henderson County Planning Department

7

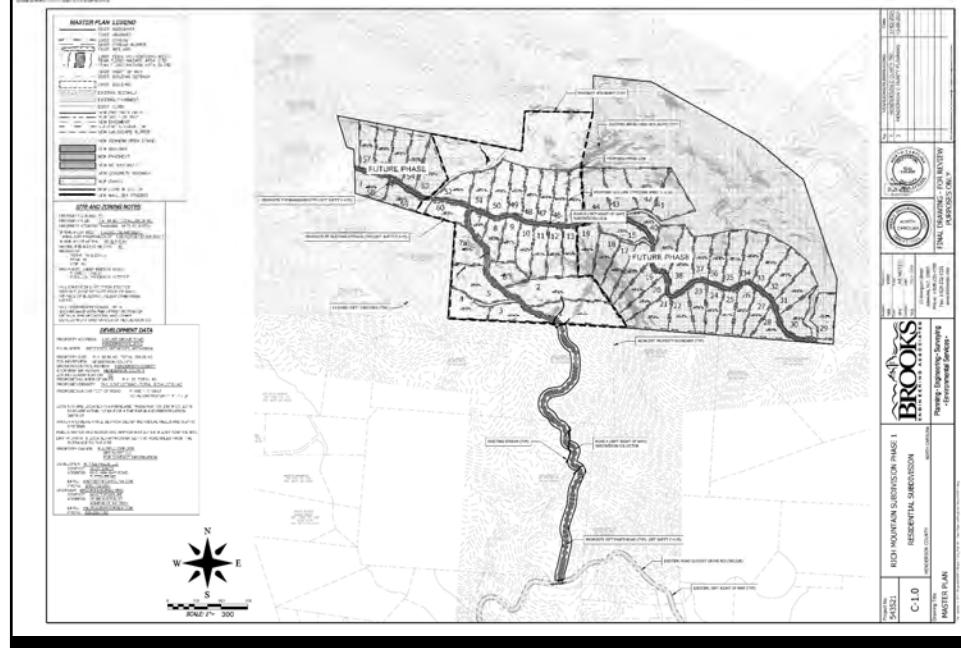
Protected Ridges Map



Henderson County Planning Department

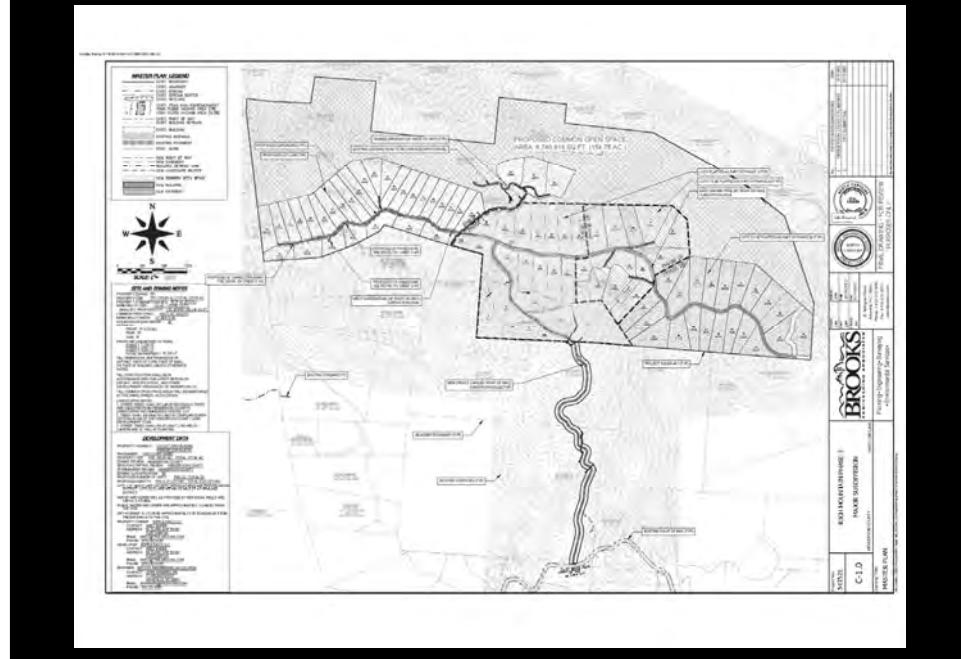
8

Original Master Plan



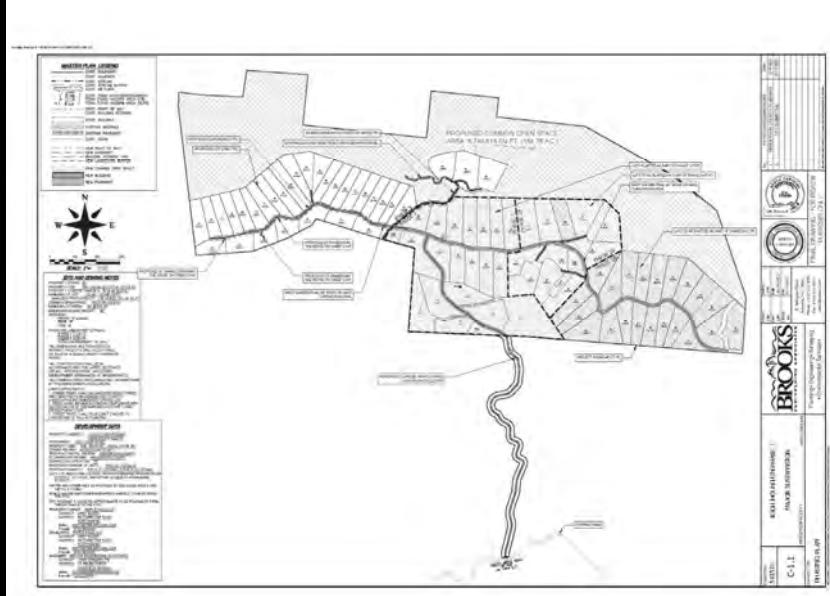
9

Revised Master Plan



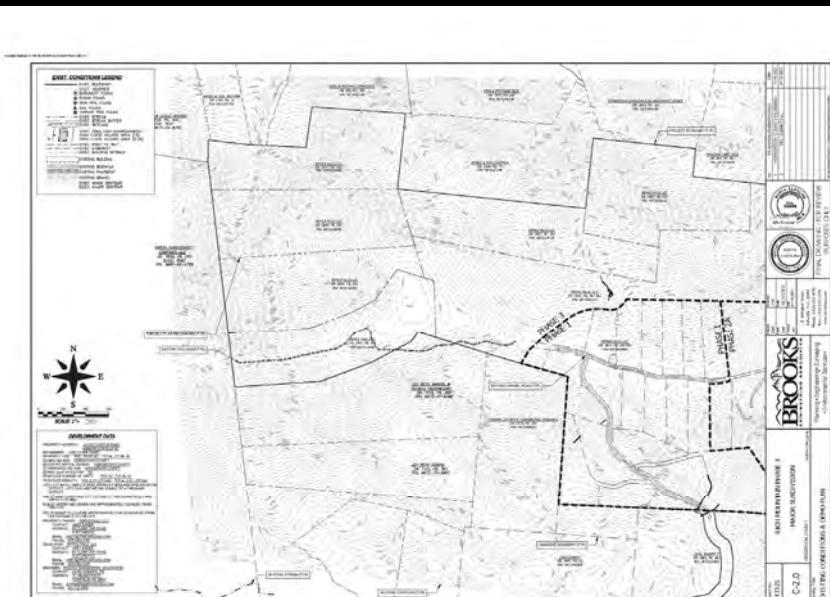
10

Revised Master Plan



11

Revised Master Plan



12

**Revised Master & Phase III Development Plan for
Sprout Mountain Subdivision (2021-M09)**

Questions

