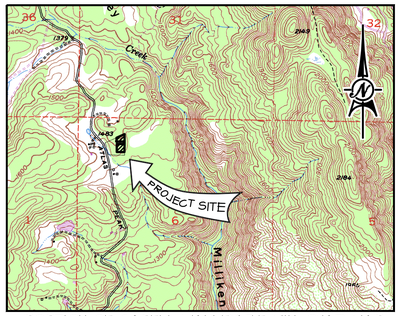


PORTION OF CAPELL VALLEY 7.5 MIN. QUAD MAP

Vicinity Map

1" = ±2000'

ATLAS ROCK VINEYARD
3380 ATLAS PEAK ROAD
EROSION CONTROL PLAN
FOR NEW VINEYARD DEVELOPMENT

SHEET INDEX

1. TITLE SHEET
2. PLAN & DETAILS

Narrative

This project is the new planting of approximately ±1.74 gross acres (±1.37 net acres) of vineyard and the new planting of 0.40 acres of trees within APN 033-010-059, a ±4.84 acre parcel located at 3380 Atlas Peak Road, Napa. Within the parcel boundaries are burned residences and outbuildings, burned vegetation, an access road, ±0.6 acres of tree canopy and resident grasses. Primary access is from Atlas Peak Road.

Existing ground slopes in the project area range from 3% to 18%, with no slopes over 30% within the vineyard blocks. The project area has an average slope of 9.6%. Block A will be planted with a vinerow spacing of 7', except at the proposed leach system, where the spacing will be 8' as shown on the plan. Block B will be planted with a vinerow spacing of 7'. Row orientation is shown on the plan. All blocks will be farmed using ATVs and small harvest tractors. A new drip irrigation system will be installed with existing well as the water source. Water use for the new vineyard is presented in the Water Availability Analysis prepared by Napa Valley Vineyard Engineering, Inc.

There is one blue line stream and one ephemeral stream; both near the southwest property corner. Setbacks have been provided pursuant to Napa County Conservation Regulations. The project drains toward the blue line stream and lies within the Milliken Reservoir subwatershed.

Soils within the block boundaries have been classified in the USDA Soil Conservation Service's Napa County Soil Survey, as SCS #102, Aiken loam.

No Special Status Species will be impacted by this project as concluded in the Biological Resource Survey prepared by Northwest Biosurvey, dated February 2, 2022.

No Cultural Resources occur in the vicinity of this project as concluded in the Cultural Resources Study prepared by Tom Origer & Associates, dated September 2, 2021.

Vegetation Removal consists of resident grasses, brush and scattered trees. All organic material to be burned shall be stacked at strategic locations within the cleared areas. Burning of the organic material shall only take place after obtaining approval from all the governing agencies. Alternate to burning is chipping and off-hauling to a properly permitted disposal site.

Ground Preparation shall include removal of vegetation and rocks, ripping and disking. Ripping shall be to a maximum depth of 24" within block boundaries, perimeter avenues/turnspaces shall not be disked or ripped. **Rocks** shall be used for local landscaping, and/or erosion control features, and/or they may be crushed and used as surfacing for existing traffic areas, and/or they may be off-hauled to a properly permitted disposal site.

Wildlife Exclusion Fence is existing as shown on the plan sheet, exit gates and/or cattle guards shall be installed at the corners.

Temporary Erosion Control Measures consist of the installation of fiber rolls and the application of straw mulch where seeding occurs. The installation of all **fiber rolls** shall be completed in accordance with the appropriate detail along the contours at locations shown on the plan and prior to the rainy season at the end of years P-1 and P. They shall be left in place through the winter after planting after which they may be removed. A **straw mulch** cover shall be applied over all open and/or disturbed and seeded areas at the rate specified in the *Project Notes*.

Permanent Erosion Control Measures consist of the following:

1) Clean, repair or replace existing drainage features as needed at the locations shown on the plan.

2) Construction of water bars where shown on the plan and as needed in accordance with the appropriate detail.

3) The vineyard may be full tilled in years P-1 and P, and a winter cover crop shall be seeded and mulched at the end of growing season P-1. At the end of the growing season in year P, a permanent cover crop shall be planted within the new vineyard. (refer to cultivation chart under *Project Notes)*. The cover crop may be mowed and strip sprayed using post-emergent contact sprays. NO PREEMERGENT SPRAYS SHALL BE USED. As a normal cultural practice, no tillage shall occur within the vineyard once the permanent cover crop has been established. Areas outside the vineyard blocks, including avenues and turnspaces, shall not be tilled at any time. Using this method, a minimum ground cover of 75% will be obtained each winter. From time to time (every three or four years), it may be necessary to till the cover crop to open up the ground or to re-establish proper ground cover. Should this be necessary, notification shall be provided to Napa County PBES, and the work shall proceed as prescribed in Napa County Conservation, Development and Planning Department guidelines, dated April 8, 2004, entitled "Protocol for Replanting/Renewal of Approved Non-Tilled Vineyard Cover Crops".

4) Implementation and adherence to the **Annual Winterization** program presented in the Project Notes.

Costs: The total cost of all erosion control measures is estimated to be $5000-8500/acre including equipment, materials, and labor.

The project site was visited by the plan preparer in January, 2023 to inspect the site, and will be visited during and after development to check for proper implementation of erosion control measures.

Project Notes

APN & Owner: 033-010-059

Atlas Rock Holdings LLC
2840 NE 26th Street
Fort Lauderdale, FL 33305

Site Address: 3380 Atlas Peak Road, Napa

Contact: John Derr @ 707-738-8878
John Derr Farming Company, LLC
830 School Street
Napa, CA 94559

Drew L. Aspegren, P. E. @ 707-963-4927
Napa Valley Vineyard Engineering, Inc.
176 Main St., Suite B
St. Helena, CA 94574

Mapping: CMP Civil Engineering & Land Surveying Inc. (2021)

Implementation Schedule: Work may begin during the first growing season after project approval and may be completed over several years. Preplant and planting year operations may be conducted over two growing seasons or they may be conducted during the same year. The work will be scheduled as follows:

Year P-1 April 1 thru Sept 15	Clearing, rock and root removal, stacking vegetation for burning or other disposal, disking, installing permanent erosion control measures prior to vineyard layout, staking and installation of drip system, installing temporary erosion control measures. Winterization, consisting of seeding and mulching, shall be completed by September 15, or by the end of any extension of time granted by Napa County PBES.
Rainy Season Sept 16 thru March 31	Maintain erosion control measures, burning as allowed by government agencies.
Year P Apr 1 thru Sept 1	Complete unfinished pre-plant operations, plant vineyard and begin cultural practices (refer to cultivation chart below). Maintain all erosion control features.

Cover Cropping and Cultivation Practices

Year	Cultivation during growing season	Cover Crop, planted or maintained at end of growing season
Pre-plant (P-1)	rip and disk	winter cover crop
Planting (P)	full till	permanent cover crop
P+1	mow, weed control	permanent cover crop
P+2 Forward	mow, weed control	permanent cover crop

All ground disturbing activities shall be completed by September 1 of each year, and all erosion control measures shall be in place by September 15, or by the end of any extension of time granted by Napa County PBES.

Seeding Requirements: All exposed or disturbed soils shall be seeded. Seed and fertilizer shall be applied hydraulically or broadcast at the rates specified below:

Atlas Rock Cover Mix @ 60-100 lbs/ac	Blando Brome Barley Clover	50% 40% 10%

Fertilizer : Ammonium phosphate sulfate (16-20-0) 200-240 lbs/ac

An alternate seed mix and/or fertilizer may be used after review and approval by Napa County PBES.

Straw Mulch shall be spread over all disturbed and seeded areas. The mulch shall be spread mechanically or by hand at the rate of 2 tons/acre. As an alternate to mulch, the seeded areas may be irrigated through germination until the onset of winter rains.

As an alternate to seeding and mulching, the vineyard may be hydro-seeded using the same mix and fertilizer at the rates specified above.

Fiber Rolls shall be installed at the locations shown on the plan in accordance with the appropriate detail. Fiber Rolls shall be maintained through the winter after planting, after which they may be removed.

Water Bars shall be constructed where shown on the plan in accordance with the appropriate detail. Water Bars shall remain in place as permanent structures and shall be reshaped as necessary prior to each rainy season.

Maintenance: Cover cropping and cultivation shall be implemented as described in the Narrative (Permanent Erosion Control Measures) and elsewhere in the Project Notes (Cover Cropping and Cultivation Practices).

Annual Winterization: shall be completed by September 15 each year, or by the end of any extension of time granted by Napa County PBES, and shall include the following:

1) The condition of the non-tilled cover crop, including those areas outside the vineyard, and the suitability and effectiveness of the seed mix and fertilizer shall be evaluated. Weak areas shall be reseeded as necessary; if addition of soil amendments in indicated, they shall be incorporated and those areas shall be seeded and mulched.

2) All roads and turnspaces which are not rocked or paved shall be seeded, fertilized and mulched, and they shall remain undisturbed throughout the rainy season.

3) All existing erosion control and drainage features shall be inspected, cleaned, and repaired as necessary.

All existing erosion control features and drainages shall be inspected and cleaned, or repaired as necessary. All erosion control measures shall be inspected after each storm event, and any necessary repairs, cleaning and maintenance shall be promptly performed.

Special Notes - Existing Facilities

Contractor shall determine exact location of all existing facilities and other obstructions prior to beginning of work, and shall be responsible for their safekeeping during the course of work.

Contractor shall be responsible for the location of all utilities in the work area, and shall be responsible for their safekeeping during the course of work.

Some underground utilities and facilities can be located by underground services alert (U.S.A.) call 1 (800) 642-2444, or 811 at least forty eight (48) hours before all work operations.

Contractor shall locate all existing utilities, storm drains, and shall make all efforts not to damage them during the course of construction. Should damage occur, owner or engineer shall be notified and repairs shall be made immediately. In no case shall damage pipelines be allowed to remain unrepaired overnight.

Special Notes

1) Bats: The following bat avoidance measures shall be implemented prior to the commencement of vineyard development and implementation activities:

A qualified biologist shall conduct a passive habitat assessment of all trees proposed for removal in order to identify suitable bat habitat within 6 months of planned tree removal. If the habitat assessment determines that trees proposed for removal contain suitable bat habitat, the following shall apply to potential bat habitat trees:

1. Tree trimming and/or tree removal should only be conducted during seasonal periods of bat activity (August 31 through October 15, when young would be self-sufficiently volant and prior to hibernation, and March 1 to April 15 to avoid hibernating bats and prior to formation of maternity colonies), under supervision of a qualified biologist. Note that these windows may shift with atypical temperatures or rainfall. Trees should be trimmed and/or removed in a two-phased removal system conducted over two consecutive days. The first day (in the afternoon), limbs and branches would be removed by a tree cutter using chainsaws only. Limbs with cavities, crevices and deep bark fissures would be avoided, and only branches or limbs without those features would be removed. On the second day, the entire tree would be removed.

2. For removal of bat habit trees outside the seasonal activities identified above (between October 16 and February 28/29 of the following year or between April 16 and August 30), a qualified biologist (defined as having demonstrable qualifications and experience with the particular species for which they are surveying, and with bat surveys in specific roost types for project specific conditions) shall conduct pre-construction survey within 14 days of project initiation and/or removal to determine absence/presence of special-status bat species. Survey methods, timing, duration, and species shall be provided for review and approval by Napa County prior to conducting pre-construction surveys. A copy of the survey shall be provided to the Conservation Division and CDFW prior to commencement of work. If special-status bat species are not present removal can proceed. If bats are found to be present a plan for removal or exclusion will be developed by a qualified biologist in conjunction with the Conservation Division and CDFW. The removal or exclusion plan shall be implemented upon approval of the plan by the Conservation Division.

2) Birds: The following bird pre-construction survey(s) shall be conducted prior to the commencement of vineyard development and implementation activities:

1. For earth-disturbing activities occurring between February 1 and August 31, (which coincides with bird breeding and nesting seasons), a qualified biologist (defined as knowledgeable and experienced in the biology and natural history of local avian resources with potential to occur at the project site) shall conduct preconstruction surveys for nesting birds within all suitable habitat on the project site, and where there is potential for impacts adjacent to the project areas. The preconstruction survey shall be conducted no earlier than 14 days prior to vegetation removal and ground disturbing activities are to commence. Should ground disturbance commence later than 14 days from the survey date, surveys should be repeated. A copy of the survey will be provided to the Napa County Conservation Division and the CDFW prior to commencement of work.

2. After commencement of work if there is a period of no work activity of 5 days or longer during the bird breeding season, surveys shall be repeated to ensure birds have not established nests during inactivity.

3. In the event that nesting birds are found, the permittee shall identify appropriate avoidance methods and exclusion buffers in consultation with PBES and the USFWS and/or CDFW prior to initiation of project activities. Exclusion buffers may vary in size, depending on habitat characteristics, project activities/disturbance levels, and species as determined by a qualified biologist in consultation with PBES and the USFWS and/or CDFW.

4. Exclusion buffers shall be fenced with temporary construction fencing (or the like), the installation of which shall be verified by Napa County prior to the commencement of any earthmoving and/or development activities. Exclusion buffers shall remain in effect until the young have fledged or nest(s) are otherwise determined inactive by a qualified biologist.

5. Alternative methods aimed at flushing out nesting birds prior to pre-construction surveys, whether physical (i.e., removing or disturbing nests by physically disturbing trees with construction equipment), audible (i.e., utilizing sirens or bird cannons), or chemical (i.e., spraying nesting birds or their habitats) would be considered an impact to nesting birds and is prohibited. Any act associated with flushing birds from project areas should undergo consultation with the USFWS/CDFW prior to any activity that could disturb nesting birds.

Legend

- BLOCK BOUNDARY
- AVENUE/TURNSPACE
- VINEROWS
- (2) DETAIL 2
- (E) EXISTING
- FIBER ROLL
- MSB MINIMUM SETBACK
- PIPELINE (E)
- P PLANTING YEAR
- PBES PLANNING, BUILDING AND ENVIRONMENTAL SERVICES
- PROPERTY LINE APPROXIMATE LOCATION
- (RDA) ROCK DISPOSAL AREA
- ROCK DISPOSAL AVENUE
- SENSITIVE SPECIES
- SCS SOIL CONSERVATION SERVICE
- 139 SCS SOIL MAPPING UNIT
- S SCS SOIL TYPE BOUNDARY
- TREE PLANTING AREA
- WATER BAR
- WILDLIFE EXCLUSION FENCE PROPOSED
- VINEYARD ACCESS ROAD

ATLAS ROCK VINEYARD
3380 ATLAS PEAK ROAD
EROSION CONTROL PLAN
NEW VINEYARD DEVELOPMENT

Napa Valley Vineyard Engineering, Inc.
176 Main St., Suite B
St. Helena, CA 94574
(707) 963 4927

REGISTERED PROFESSIONAL ENGINEER
DREW L. ASPEGREN
No. 31418
Exp. 12-31-24
CIVIL
STATE OF CALIFORNIA

DREW L. ASPEGREN, PE
R.C.E. 31418

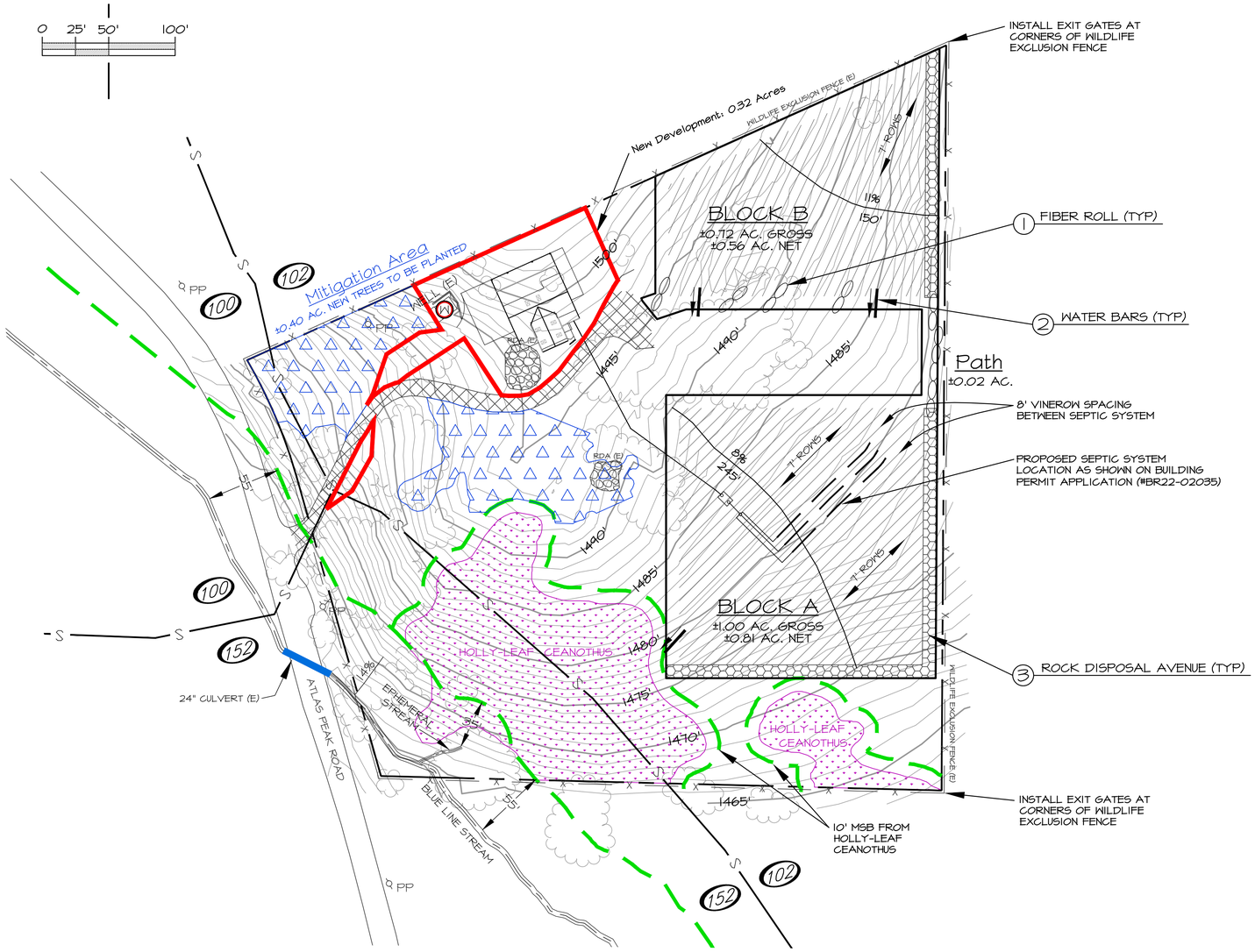
December 20, 2021
DATE

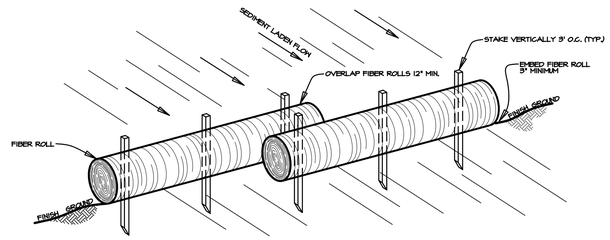
THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF NAPA VALLEY VINEYARD ENGINEERING, INC., AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION FROM NAPA VALLEY VINEYARD ENGINEERING, INC.

REV. 2 3-14-23 PER COUNTY COMMENTS OF 11-8-22
REV. 1 9-2-22 PER COUNTY COMMENTS OF 3-9-22

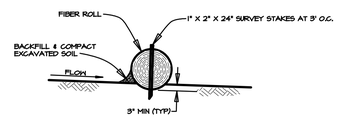
SCALE: 1"=50'
CONTOUR INTERVAL: 1'

0 25' 50' 100'



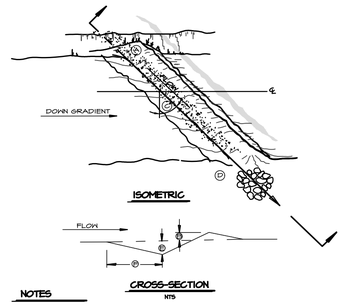


FIBER ROLL SEDIMENT BARRIER (ISOMETRIC VIEW)



FIBER ROLL SEDIMENT BARRIER (SECTION)

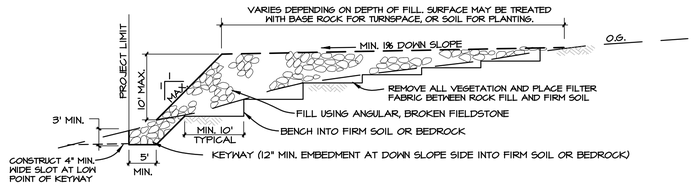
1 FIBER ROLL
N.T.S.



NOTES

Waterbar construction for little or no traffic. Specifications are average and shall be adjusted to conditions.
- (A) Tie-in to bank if appropriate.
- (B) Cross drain berm height 4" to 6" above the roadbed.
- (C) Angle drain 30° to 45° degrees downgrade with road centerline.
- (D) Outfall structure as shown in plan.
- (E) Depth minimum 8".
- (F) 3' to 4'.

2 WATER BAR
N.T.S.



3 ROCK DISPOSAL AVENUE
N.T.S.

TOPOGRAPHIC MAPPING BY CMP CIVIL ENGINEERING & LAND SURVEYING INC. (2021)

REV.	DESCRIPTION	BY	DATE
2	PER COUNTY COMMENTS 11-8-22	DLA	3-14-23
1	PER COUNTY COMMENTS 3-9-22	DLA	9-2-22

This document and the ideas and designs incorporated herein, as an instrument of professional service, are the property of Napa Valley Vineyard Engineering, Inc., and are not to be used, in whole or part, for any other project without written authorization from Napa Valley Vineyard Engineering, Inc.

Napa Valley Vineyard Engineering, Inc.
176 Main St., Suite B
St. Helena, CA 94574
(707)963-4927

REGISTERED PROFESSIONAL ENGINEER DREW L. ASPEGREN No. 31418 Exp. 12-31-24 CIVIL STATE OF CALIFORNIA

DATE	12-20-2021
SCALE	AS SHOWN
21ECPAtlasRockR2.dwg	DRAWN BPM / CHECKED DLA
APPROVED	
DREW L. ASPEGREN, PE	R.C.E. 31418

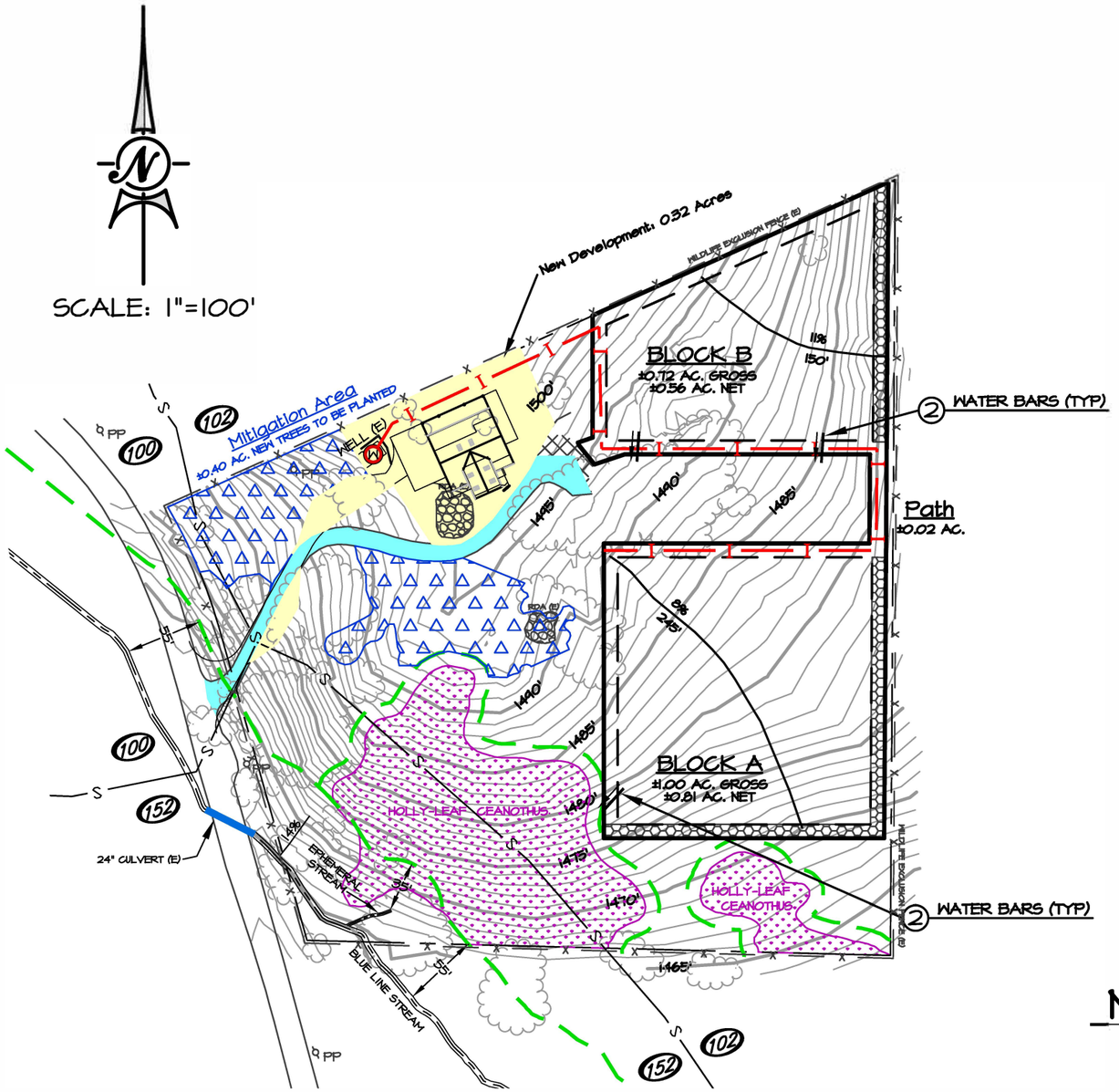
ATLAS ROCK

3380 ATLAS PEAK ROAD

EROSION CONTROL PLAN & DETAILS
NEW VINEYARD DEVELOPMENT

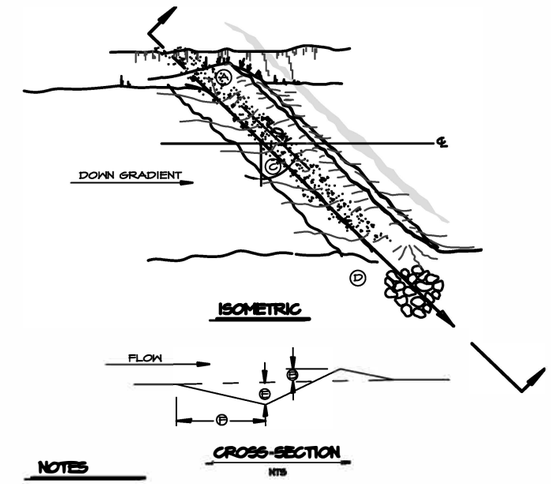
PLAN & DETAILS

SHEET 2 OF 2



Legend

- BLOCK BOUNDARY
- AVENUE/TURNSPACE
- VINEYARD BOUNDARY (APPROX.)
- (2) DETAIL 2
- (E) EXISTING
- PROPERTY LINE APPROXIMATE LOCATION
- PROPOSE IRRIGATION MAIN
- ROAD NOT DRAINING TO STREAM SYSTEM
- WATER BAR
- VINEYARD ACCESS ROAD



NOTES

Waterbar construction for little or no traffic. Specifications are average and shall be adjusted to conditions.

- (A) Tie-in to bank if appropriate.
- (B) Cross drain berm height 4" to 6" above the roadbed.
- (C) Angle drain 30° to 45° degrees downgrade with road centerline.
- (D) Outfall structure as shown in plan.
- (E) Depth minimum 8".
- (F) 3' to 4'.

(2) WATER BAR

N.T.S.

Notes

1. Existing road and avenue improvements as shown on plan. With the construction and annual maintenance of waterbars none of the unpaved avenue length is dellevering sediment to the stream system.
2. Proposed avenues and roads leading to proposed vineyard blocks will be graded out to conform with vineyard operations.
3. All avenues which are not gravel or paved shall be seeded and mulched every year before September 15th.
4. Waterbars shall be installed as shown on this sheet.
5. Any new roads built for vineyard operations will need to be reviewed by NCRCD for conformance with Water Board standards.

TOPO SURVEY BY CMP CIVIL ENGINEERING & LAND SURVEYING INC. (2021)

ATLAS ROCK
3380 ATLAS PEAK ROAD
ROAD & IRRIGATION PLAN

NVVE 3-14-23 R2