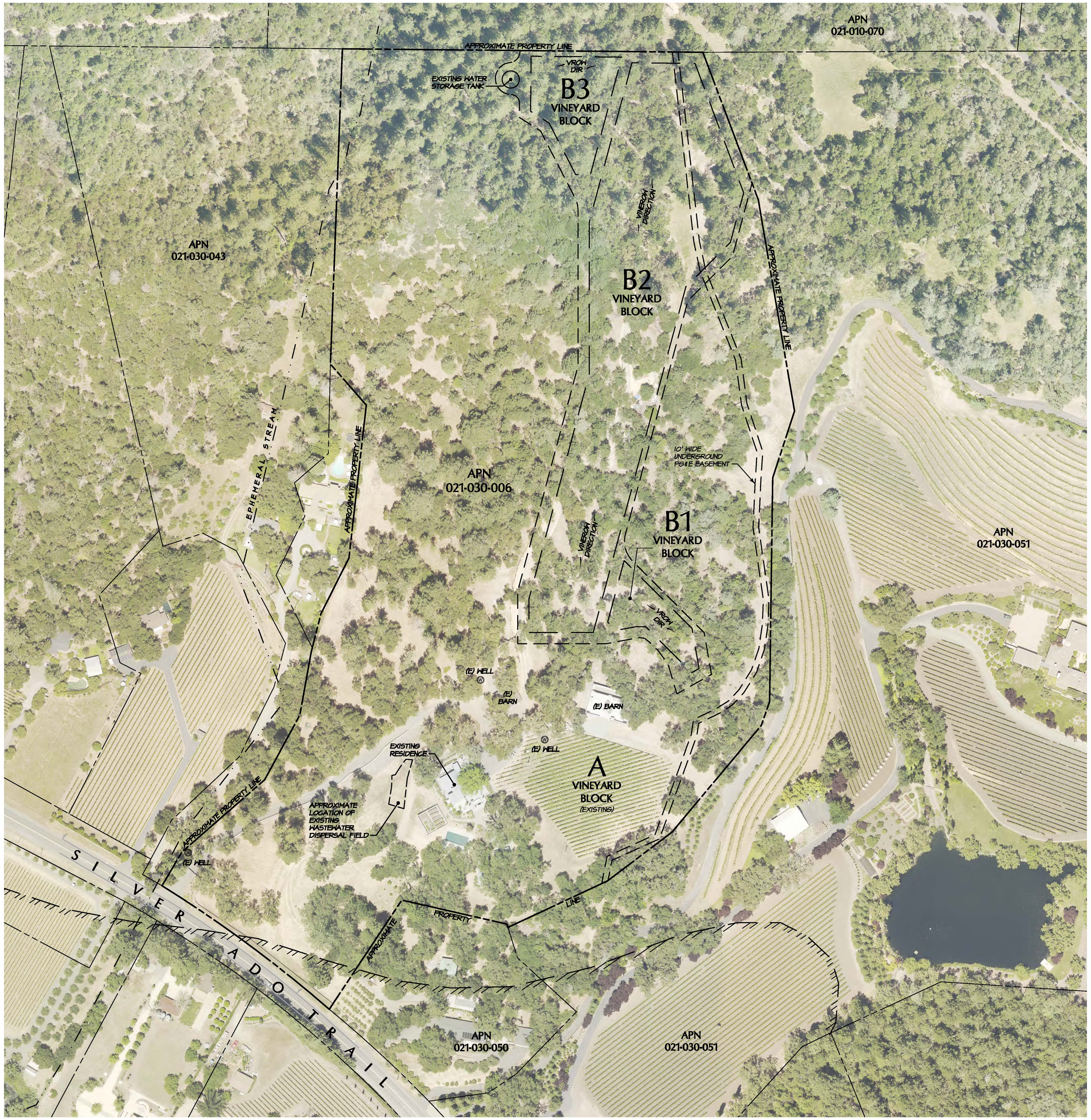
MILLER VINEYARD

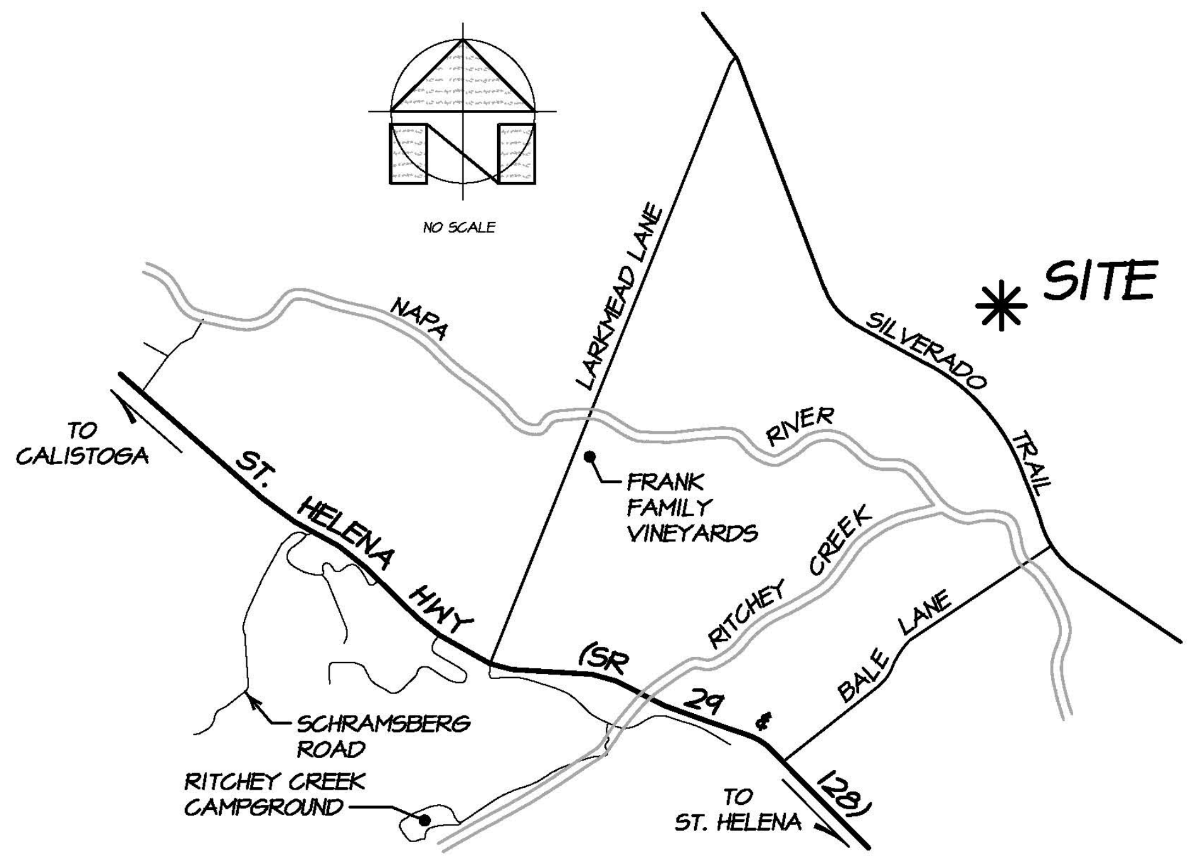
TRACK I VINEYARD DEVELOPMENT AND EROSION CONTROL PLAN



SCALE: 1" = 100'

OVERALL SITE PLAN

SCALE: 1" = 100'



LOCATION MAP

NO SCALE

PROJECT INFORMATION:

PROPERTY OWNER:
HENRY & BONNIE MILLER,
MILLER REVOCABLE TRUST
3722 MT. DIABLO BOULEVARD
LAFAYETTE, CA 94549

PROJECT APPLICANT:
SILVERADO FARMING, INC.
C/O PETE RICHMOND
390 TAYLOR STREET
NAPA, CA 94559
(707) 251-9081

PROJECT ADDRESS:
3906 SILVERADO TRAIL
CALISTOGA, CA 94515

ASSESSOR'S PARCEL NUMBER:
021-030-006

PARCEL SIZE:
27.76± ACRES

PARCEL ZONING:
AW

2

SHEET INDEX:

SHEET EC1	OVERALL SITE PLAN
SHEET EC2	NOTES SHEET
SHEET EC3	SITE PLAN
SHEET EC4	FARMING PRACTICES EXHIBIT
SHEET EC5	EROSION CONTROL PLAN
SHEET EC6	DETAIL SHEET
SHEET EC7	70% VEGETATION RETENTION EXHIBIT
SHEET EC8	CANOPY MITIGATION AREA EXHIBIT
SHEET EC9	WAA SLOPE ANALYSIS EXHIBIT

EDWARDS ENGINEERING

SHEET 1	DRIP IRRIGATION SYSTEM

FEMA FLOOD DATA:

THIS PROJECT IS LOCATED WITHIN A FLOODPLAIN PER FLOOD INSURANCE RATE MAP (FIRM) PANEL NO. 06055C0245E, DATED SEPTEMBER 26, 2008. ZONE "X" IS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD IN AN UNINCORPORATED AREA OF NAPA COUNTY.

/// //// /// FLOODPLAIN DELINEATION BOUNDARY

AERIAL NOTE:

THE 2018 AERIAL PHOTOGRAPH USED AS A BASE FOR THIS PLAN WAS PROVIDED BY NAPA COUNTY. ALL PROPERTY LINES, BUILDINGS, UTILITIES, WASTEWATER SYSTEM LOCATIONS, DIMENSIONS, AND DESCRIPTIONS SHOWN HEREON ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD.

TIMBER OPERATIONS NOTE:

A TIMBER CONVERSION PLAN (TCP) IS BEING APPLIED FOR THROUGH THE STATE OF CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION.

No. 84634

PREPARED UNDER THE DIRECTION OF

Richard Paxton

RICHARD PAXTON 03-31-2023

NO.	DATE	DESCRIPTION	SHEETS	BY
2	03-31-2023	NAPA COUNTY COMMENTS, DATED FEBRUARY 14, 2023	EC1, EC5, EC7, & EC8	KNK
1	01-25-2023	ADD IRRIGATION PLAN PER APPLICATION COMPLETENESS LETTER, DATED JUNE 10, 2022	EC1	KNK

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DES:	RP
DRWN:	KNK
CHKD:	PNB

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CIVIL ENGINEERING · LAND PLANNING
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· www.barteltengineering.com
· Telephone: 707-258-1301 ·

MILLER VINEYARD
OVERALL SITE PLAN
NAPA COUNTY CALIFORNIA

DATE: MAY 2022

JOB NO: 20-10

SHEET NO: EC1

OF 9

2

3/31/2023 - 1:04 PM, kristenk, S:\LAND PROJECTS\2018-2022\2010\2020 ECP TRK I\ACAD\PLANS\2010-ECP TRK1.DWG, EC1-OSP, ARCH FULL BLEED D (36.00 X 24.00 INCHES), 1" = 1', PLOTTED @ BARTELT ENGINEERING, 707-258-1301

GENERAL NOTES:

1. ALL WORKMANSHIP AND MATERIALS FOR THE IMPROVEMENTS SHOWN ON THESE PLANS SHALL CONFORM TO THE REQUIREMENTS OF THE NAPA COUNTY ROAD & STREET STANDARDS, THE LATEST EDITION OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND STANDARD PLANS, THE 2019 CALIFORNIA BUILDING CODE (CBC), AND NAPA COUNTY ENVIRONMENTAL HEALTH STANDARDS. THE IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE INSPECTED BY A REPRESENTATIVE FROM NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT AND OBSERVED BY THE ENGINEER.

2. CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL MATERIALS TO BE USED ON THE PROJECT TO THE ENGINEER FOR APPROVAL PRIOR TO BIDDING, PURCHASING, OR INSTALLATION. CONTRACTOR SHOULD ALLOW AT LEAST FIVE (5) WORKING DAYS FOR INITIAL REVIEW OF EACH SUBMITTAL. ALLOW FIVE (5) ADDITIONAL WORKING DAYS FOR EACH RESUBMITTAL. ADDITIONAL REVIEW TIME MAY BE REQUIRED IF COORDINATION WITH SUBSEQUENT SUBMITTALS IS REQUIRED. USE OF UNAPPROVED MATERIALS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

3. ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

4. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR BEING FAMILIAR WITH THE SPECIFICATIONS, PROVISIONS, AND PROCEDURES REQUIRED BY NAPA COUNTY FOR THE WORK OUTLINED IN THESE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A COPY OF THE APPROVED PLANS AND ANY ADDENDUMS AT THE JOB SITE AT ALL TIMES.

5. CONTRACTOR SHALL BE APPROPRIATELY LICENSED WITH THE STATE OF CALIFORNIA TO PERFORM THE WORK OUTLINED IN THESE PLANS.

6. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL SECURE CONSTRUCTION PERMITS FROM NAPA COUNTY AND OTHER AGENCIES AS NECESSARY.

7. CONTRACTOR SHALL CONTACT THE ENGINEER TO ARRANGE A PRE-CONSTRUCTION MEETING FOR THE PURPOSE OF REVIEWING JOB REQUIREMENTS AND NAPA COUNTY PROCEDURES.

8. CONTRACTOR SHALL NOTIFY NAPA COUNTY STAFF AND THE ENGINEER AT LEAST THREE (3) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.

9. CONSTRUCTION AND GRADING ACTIVITIES ON THE SITE SHALL BE LIMITED TO BETWEEN 7:00 A.M. AND 7:00 P.M. DAILY.

10. CONTRACTOR SHALL PROVIDE EMERGENCY TELEPHONE NUMBERS TO THE NAPA COUNTY SHERIFF, FIRE, AND PUBLIC WORKS DEPARTMENTS AND KEEP THEM INFORMED DAILY REGARDING THE STREETS UNDER CONSTRUCTION AND DETOURS. DETOURS SHALL NOT BE PERMITTED UNLESS APPROVED IN WRITING BY THE NAPA COUNTY PUBLIC WORKS DEPARTMENT.

11. CONTRACTOR SHALL REQUEST INSPECTIONS A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE BY CALLING THE ENGINEER AT (707) 258-1301, 8:00 A.M. TO 5:00 P.M., MONDAY THROUGH FRIDAY.

12. CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY COMPANIES TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK ON THIS PROJECT TO VERIFY THE LOCATION OF EXISTING UTILITY LINES. CALL UNDERGROUND SERVICE ALERT (U.S.A.) TOLL FREE AT 811 OR (800) 227-2600, 6:00 A.M. TO 7:00 P.M., MONDAY THROUGH FRIDAY OR SUBMIT TICKET ONLINE AT WWW.811EXPRESS.COM. THE CONTRACTOR SHALL ALSO CALL ANY COMPANY OR AGENCY FOR SERVICE LOCATIONS WHO ARE NOT A MEMBER OF UNDERGROUND SERVICE ALERT.

13. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING UTILITIES IN THE FIELD. COSTS OF REPAIRING ANY DAMAGES OR INJURIES CAUSED BY THE CONTRACTOR SHALL BE BORNE BY THE CONTRACTOR. VARIOUS UTILITY LINES WERE PLOTTED ON THE PLANS FROM THE INFORMATION OBTAINED FROM THE RESPECTIVE UTILITY COMPANIES AND/OR THE OWNER; THEREFORE, NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CORRECTNESS OF THEIR LOCATION.

14. EXISTING UTILITIES SHALL BE KEPT IN SERVICE AT ALL TIMES. UTILITIES THAT INTERFERE WITH THE WORK TO BE PERFORMED SHALL BE PROTECTED AS REQUIRED BY NAPA COUNTY, PG&E, AT&T, COMCAST, AND THE OWNER.

15. CONTRACTOR SHALL COORDINATE ALL NECESSARY UTILITY RELOCATIONS, IF REQUIRED, WITH THE APPROPRIATE UTILITY COMPANIES AND/OR THE OWNER.

16. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING FACILITIES AND IMPROVEMENTS FROM DAMAGE RESULTING FROM CONTRACTOR'S WORK. ANY DAMAGE CAUSED BY CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

17. CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT BARRICADES TO PROVIDE FOR THE SAFETY OF THE GENERAL PUBLIC TO THE SATISFACTION OF NAPA COUNTY AND THE OWNER.

18. CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT; EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

19. SHOULD ANY CONTRACTOR OR SUBCONTRACTOR FIND ANY DEFICIENCIES, ERRORS, CONFLICTS, OR OMISSIONS IN THESE PLANS AND SPECIFICATIONS OR SHOULD THERE BE ANY DOUBT AS TO THEIR MEANING OR INTENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR A WRITTEN CLARIFICATION, ADDENDUM, ETC. SHOULD THE CONTRACTOR FAIL TO DO SO BEFORE SUBMITTING A PROPOSAL, THE CONTRACTOR CANNOT CLAIM ADDITIONAL COMPENSATION FOR WORK REQUIRED TO COMPLETE THE PROJECT.

20. THESE PLANS ARE INTENDED TO SHOW SITE IMPROVEMENTS FOR A TRACK I VINEYARD DEVELOPMENT. THIS DESIGN INCLUDES, BUT IS NOT LIMITED TO, GRADING AND DRAINAGE. BARTELT ENGINEERING IS NOT RESPONSIBLE FOR GEOTECHNICAL ENGINEERING SERVICES.

21. ALL DIMENSIONS SHOWN ON THE PLANS SHOW MEASUREMENTS IN A HORIZONTAL PLANE. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. IF THERE IS A CONFLICT, NOTIFY THE ENGINEER AND OBTAIN CLARIFICATION. NO DEVIATION OR SUBSTITUTION SHALL BE ALLOWED WITHOUT OBTAINING WRITTEN APPROVAL FROM THE ENGINEER.

22. FADED BACKGROUND REPRESENTS EXISTING TOPOGRAPHIC FEATURES. THE TOPOGRAPHIC INFORMATION SHOWN ON THIS PLAN WAS TAKEN FROM THE "A PORTION OF THE LANDS OF MILLER LAFAYETTE HOLDINGS" PREPARED BY TERRA FIRMA SURVEYS, INC., DATED FEBRUARY 18, 2022 AND OCTOBER 19, 2020, BASED ON FIELD SURVEYS PERFORMED IN MARCH 2014, AUGUST 2, 3, 6, 7, AND 16, 2018, AND REVISED ON NOVEMBER 4, 2019, AND CONTOURS USED FOR A PORTION OF THIS PLAN WERE TAKEN FROM NAPA COUNTY TOPO TILE J04. THE WATER TANK WAS LOCATED ON FEBRUARY 3, 2022. BARTELT ENGINEERING ASSUMES NO LIABILITY, REAL OR ALLEGED, REGARDING THE ACCURACY OF THE TOPOGRAPHIC INFORMATION SHOWN.

    BENCHMARK NOTE: SET SPIKE #500 EASTERLY OF HOUSE, 26 FEET FROM FENCE ANGLE POINT, 18 FEET FROM HOSE BIBB AND 36 FEET FROM 19 INCH LIVE OAK, ELEVATION 761.05'
    VERTICAL DATUM: NAVD88
    BASIS OF BEARING: CALIFORNIA COORDINATE SYSTEM, ZONE2, NAD 83
    CONTOUR INTERVAL: EVERY ONE (1) FOOT, HIGHLIGHTED EVERY FIVE (5) FEET.

23. THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY. BOUNDARY LINES SHOWN ARE BASED ON RECORD DATA AND MAY NOT REPRESENT THE TRUE POSITIONS OF THE BOUNDARY. BOUNDARY LINES ARE FOR INFORMATIONAL PURPOSES ONLY.

24. THESE PLANS ARE INTENDED TO BE USED FOR CONSTRUCTION STAKING OF THE VINEYARD DEVELOPMENT SHOWN HEREON. ALL STAKING IS TO BE PERFORMED BY A LICENSED LAND SURVEYOR. IF THE CONTRACTOR OR SURVEYOR FINDS ANY DISCREPANCIES, CONTACT BARTELT ENGINEERING FOR A WRITTEN CLARIFICATION.

25. THE TERM "ENGINEER", AS CALLED OUT ON THIS SET OF PLANS, SHALL MEAN A REPRESENTATIVE OF BARTELT ENGINEERING.

PLANNING NOTES:

1. SHOULD HAZARDOUS MATERIALS BE ENCOUNTERED DURING CONSTRUCTION, NAPA COUNTY ENVIRONMENTAL HEALTH DIVISION SHALL BE NOTIFIED AND APPROPRIATE REMEDIATION MEASURES SHALL BE UNDERTAKEN.

2. SHOULD GROUND-DISTURBING ACTIVITIES ASSOCIATED WITH CONSTRUCTION REVEAL THE PRESENCE OF POTENTIAL CULTURAL RESOURCES (E.G., ARTIFACT CONCENTRATIONS, STRUCTURAL DEBRIS, SKELETAL REMAINS), WORK WITHIN 50 FEET OF THE FIND SHALL BE SUSPENDED UNTIL A QUALIFIED CULTURAL RESOURCE SPECIALIST CAN EVALUATE THE DISCOVERY AND RECOMMEND APPROPRIATE MITIGATION MEASURES, CONSISTENT WITH THE CEQA GUIDELINES. AS PROJECT CONSTRUCTION PROCEEDS, THE DISCOVERY SHALL BE CLEARLY MARKED AND PROTECTED BY TEMPORARY FENCING IF CULTURAL RESEARCH OR RECOVERY TECHNIQUES ARE LONG-TERM IN NATURE.

3. SHOULD SKELETAL REMAINS BE ENCOUNTERED, THE NAPA COUNTY CORONER SHALL BE NOTIFIED. SHOULD THE CORONER DETERMINE THAT SUCH REMAINS ARE IN A CONTEXT SUGGESTING THE HISTORIC OR PREHISTORIC OCCUPANCY BY NATIVE AMERICANS, THE CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION SHALL BE NOTIFIED, SO IT MAY ARRANGE AT ITS DISCRETION FOR QUALIFIED NATIVE AMERICAN OR EQUIVALENT PARTICIPATION IN DETERMINING THE DISPOSITION OF SUCH REMAINS.

4. IT IS ANTICIPATED THAT **NO** WATER WELLS OR SEPTIC SYSTEMS ARE LOCATED WITHIN THE PROPOSED VINEYARD DEVELOPMENT AREA (BLOCKS B1, B2, AND B3). THERE IS AN EXISTING WELL IN EXISTING VINEYARD BLOCK A.

GRADING NOTES:

1. ALL MOVEMENT OF EARTH SHALL COMPLY WITH THE NAPA COUNTY ROAD & STREET STANDARDS, THE 2019 CALIFORNIA BUILDING CODE (C.B.C.), THE NAPA COUNTY CONSERVATION REGULATIONS, AND THESE PLANS.

2. THE SITE SHALL BE VISUALLY INSPECTED BY THE CONTRACTOR TO DETERMINE THE EXTENT OF CLEARING, GRUBBING, AND GRADING WORK TO BE DONE. GRADING ON THE SITE WILL BE LIMITED TO THE EXCAVATIONS AND/OR FILLS AS SHOWN ON THESE PLANS.

3. IN THE ABSENCE OF A GEOTECHNICAL INVESTIGATION REPORT, ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.

4. SOIL STRIPPED SHALL BE STOCKPILED FOR USE IN VINEYARD OR OTHER DESIGNATED AREAS. CONTRACTOR SHALL COORDINATE STOCKPILE LOCATION WITH THE ENGINEER.

5. REASONABLE MEASURES SHALL BE PROVIDED AND PRACTICED TO MINIMIZE ANY NUISANCE FROM DUST DURING GRADING AND CONSTRUCTION OPERATIONS. CONTRACTOR SHALL CONDUCT ALL GRADING OPERATIONS IN SUCH A MANNER AS TO PRECLUDE WIND BLOWN DIRT, DUST, AND RELATED DAMAGE TO NEIGHBORING PROPERTIES. SUFFICIENT WATERING TO CONTROL DUST IS REQUIRED AT ALL TIMES. CONTRACTOR SHALL ASSUME LIABILITY FOR CLAIMS RELATED TO WIND BLOWN MATERIAL. IF THE DUST CONTROL IS INADEQUATE AS DETERMINED BY NAPA COUNTY OR THE OWNER, CONSTRUCTION WORK SHALL BE SUSPENDED UNTIL CORRECTIVE MEASURES ARE TAKEN.

6. CONTRACTOR SHALL CONFORM TO EXISTING SURROUNDING TOPOGRAPHY AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN GRADING AND AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS, OR HAZARDOUS CONDITIONS.

7. TREES THAT ARE REMOVED SHALL ALSO HAVE THEIR STUMPS AND MAJOR ROOT SYSTEMS REMOVED. AFTER A TREE OR A STUMP IS REMOVED, THE RESULTING EARTH CAVITY SHALL BE CLEANED OF LARGER ROOTS (TWO (2) INCH DIAMETER AND LARGER). SOIL SHOULD BE REMOVED AND DISHED TO PROVIDE ACCESS FOR COMPACTION EQUIPMENT. ALL EARTHWORK, SCARIFICATION, BACKFILL, AND COMPACTION SHALL BE PERFORMED PER THESE PLANS AND NAPA COUNTY REQUIREMENTS.

8. TREE STUMPS AND ALL OTHER ORGANIC MATERIAL, TO BE REMOVED AS PART OF CONSTRUCTION, SHALL BE CHIPPED AND/OR HAULED OFFSITE AND DISPOSED OF PROPERLY.

GENERAL EROSION CONTROL NOTES:

1. THIS PROJECT IS **NOT** WITHIN A MUNICIPAL WATERSHED OR GROUNDWATER DEFICIENT AREA.

2. ALL MAJOR GRADING SHOWN HEREIN SHALL BE WINTERIZED, IF NOT YET COMPLETED, PRIOR TO OCTOBER 15 OF EACH YEAR THAT THE PROJECT IS UNDER CONSTRUCTION. EXCEPTIONS INCLUDE, BUT ARE NOT LIMITED TO, PROVISIONS THAT THE MAJOR GRADING HAS PREDOMINANTLY BEEN COMPLETED AND THAT THERE COULD BE A DETRIMENTAL IMPACT ON THE ENVIRONMENT IF THE MAJOR GRADING REMAINS INCOMPLETE. A REQUEST TO ALLOW GRADING TO OCCUR BETWEEN OCTOBER 15 AND APRIL 1 SHALL BE SUBMITTED TO NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES TWO (2) WORKING WEEKS PRIOR TO OCTOBER 15 OF EACH YEAR THAT THE PROJECT IS UNDER CONSTRUCTION. NO GRADING SHALL OCCUR AFTER OCTOBER 15 UNTIL APPROVAL HAS BEEN GRANTED BY THE NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DIRECTOR OR THEIR REPRESENTATIVE(S).

3. THIS PLAN ADDRESSES EROSION AND SEDIMENT CONTROL MEASURES AND MINOR GRADING ASSOCIATED WITH THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHOWN ON THIS PLAN DURING THE WINTER SHUT-DOWN PERIOD (OCTOBER 15 TO APRIL 1).

4. ALL PERMANENT AND TEMPORARY SEDIMENT/DETENTION DEVICES SHALL BE INSTALLED PRIOR TO OCTOBER 15 OF EACH YEAR WITHIN WHICH WORK TAKES PLACE.

5. SILT FENCE AND/OR STRAW WATTLE SEDIMENT BARRIERS WILL BE INSTALLED PRIOR TO OCTOBER 15 AND WILL REMAIN OPERABLE DURING THE WINTER SHUT-DOWN PERIOD (OCTOBER 15 TO APRIL 1).

6. CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN, TO MEET FIELD CONDITIONS, WILL BE MADE ONLY WITH THE APPROVAL OF, OR AT THE DIRECTION OF, THE ENGINEER.

7. THE CONTRACTOR WILL INFORM ALL CONSTRUCTION SITE WORKERS ABOUT THE MAJOR PROVISIONS OF THE EROSION AND SEDIMENT CONTROL PLAN AND SEEK THEIR COOPERATION IN AVOIDING THE DISTURBANCE OF THESE EROSION CONTROL MEASURES.

8. DURING THE WINTER SHUT-DOWN PERIOD (OCTOBER 15 TO APRIL 1) ALL SEDIMENT BARRIERS WILL BE INSPECTED AND REPAIRED AT THE END OF EACH WORKING DAY AND, IN ADDITION, AFTER EACH RAIN EVENT PRODUCING RUNOFF.

9. BETWEEN OCTOBER 15 AND APRIL 1, ALL PAVED AREAS WILL BE KEPT CLEAR OF DIRT, SEDIMENT, AND DEBRIS. THE PROJECT AREA WILL BE MAINTAINED SO THAT MINIMAL SEDIMENT-LADEN RUNOFF LEAVES THE SITE.

10. THE SEEDED AREAS WILL BE REPAIRED, RESEEDED, AND MULCHED AS SOON AS POSSIBLE AFTER BEING DAMAGED.

11. ALL GRADED OR DISTURBED AREAS SHOULD BE SEEDED IMMEDIATELY AFTER GRADING IS COMPLETE.

12. AREA(S) TO BE SEEDED SHOULD BE SCARIFIED TO A DEPTH OF FOUR (4) INCHES TO EIGHT (8) INCHES AND DRESSED TO PROVIDE A REASONABLY SMOOTH FIRM SURFACE.

13. THE SEED AND FERTILIZER SHOULD BE APPLIED BY HAND OR MECHANICAL SEED DRILL AT THE RATES SPECIFIED BELOW:

    LE BALLISTER'S QUICK COVER CROP APPLIED AT 50 POUNDS PER ACRE IN THE FOLLOWING PERCENTAGES:

ANNUAL RYEGRASS	50%
SOFT CHESS	20%
CRIMSON CLOVER	25%
ROSE CLOVER	5%

14. FERTILIZER USED SHOULD BE ONE (1) OF THE FOLLOWING SPECIFICATIONS:

16-20-0	250 POUNDS PER ACRE
15-15-15	300 POUNDS PER ACRE
12-12-12	400 POUNDS PER ACRE

15. STRAW MULCH SHOULD BE APPLIED, BY HAND, TO ALL DISTURBED AREAS AT A RATE OF 4,000 POUNDS PER ACRE.

16. NORTH AMERICAN GREEN BIONET C125BN EROSION CONTROL BLANKETS SHOULD BE INSTALLED OVER SEED ON ALL DISTURBED SLOPES 4:1 OR STEEPER.

17. TEMPORARY EROSION CONTROL BEST MANAGEMENT PRACTICES (BMPS) MAY BE INSTALLED WITHIN THE NAPA COUNTY CONSERVATION REGULATIONS SETBACKS; HOWEVER, PERMANENT EROSION CONTROL BMPS ARE NOT PERMITTED WITHIN THE SETBACKS.

NO.	DATE	DESCRIPTION	BY
2	03-31-2023	NO CHANGE TO THIS SHEET	KNK
1	01-25-2023	NO CHANGE TO THIS SHEET	KNK

RICHARD PAXTON
No. 84634

PREPARED UNDER THE DIRECTION OF

Richard Paxton
RICHARD PAXTON 03-31-2023

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DES: RP
DRWN: KNK
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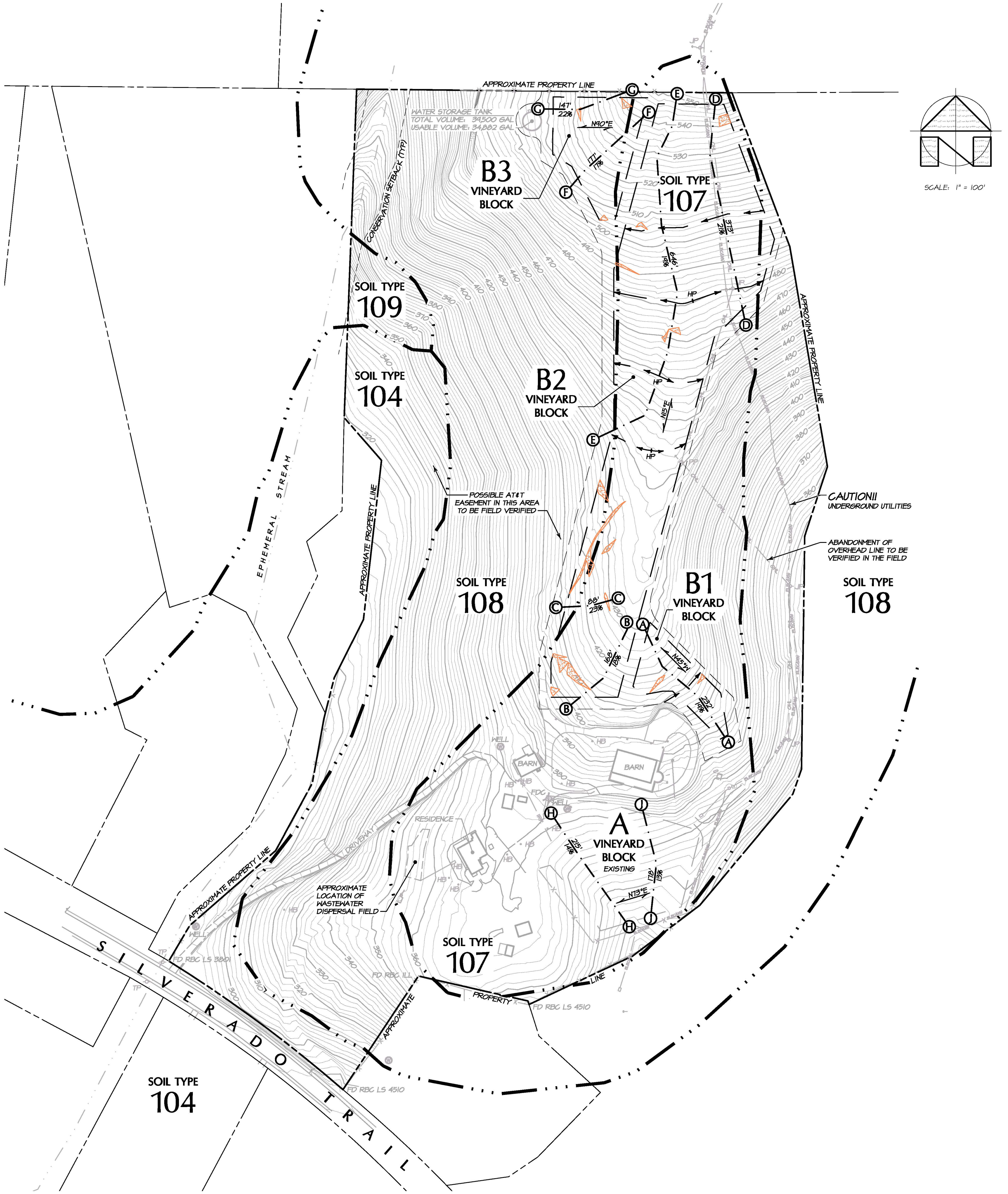
CIVIL ENGINEERING · LAND PLANNING
1303 Jefferson Street, 200 B, Napa, CA 94559
www.barteltengineering.com
· Telephone: 707-258-1301 ·

CALIFORNIA

MILLER VINEYARD
NOTES SHEET

NAPA COUNTY

DATE: MAY 2022
JOB NO: 20-10
SHEET NO: EC2
OF 9
2



SITE PLAN

SCALE: 1" = 100'

SOIL TYPE LEGEND:

104 - BALE CLAY LOAM, 0% TO 2% SLOPES

107 - BOOMER LOAM, VOLCANIC BEDROCK, 2% TO 35% SLOPES

108 - BOOMER GRAVELLY LOAM, VOLCANIC BEDROCK, 11% TO 43% SLOPES

109 -BOOMER GRAVELLY LOAM, VOLCANIC BEDROCK, 14% TO 60% SLOPES

SYMBOL LEGEND:

▨	SLOPES EQUAL TO OR GREATER THAN 30% (3,485± SQ FT = 0.08± ACRES)
━ ･･･ ━	SOIL CLASSIFICATION BOUNDARY
— — — — — —	EDGE OF POTENTIAL VINEYARD AVENUE
——— ——— ———	EDGE OF POTENTIAL VINEYARD BLOCK
→—→—→—→	CROSS-SLOPE DIVERSION SWALE (SEE EROSION CONTROL PLAN)
BEARING	VINEROW DIRECTION

NO.	DATE	DESCRIPTION	BY
2	03-31-2023	NO CHANGE TO THIS SHEET	KNK
1	01-25-2023	UPDATED PER BARTELT ENGINEERING STANDARDS	KNK

No. 84634

PREPARED UNDER THE DIRECTION OF

Richard Paxton

RICHARD PAXTON 03-31-2023

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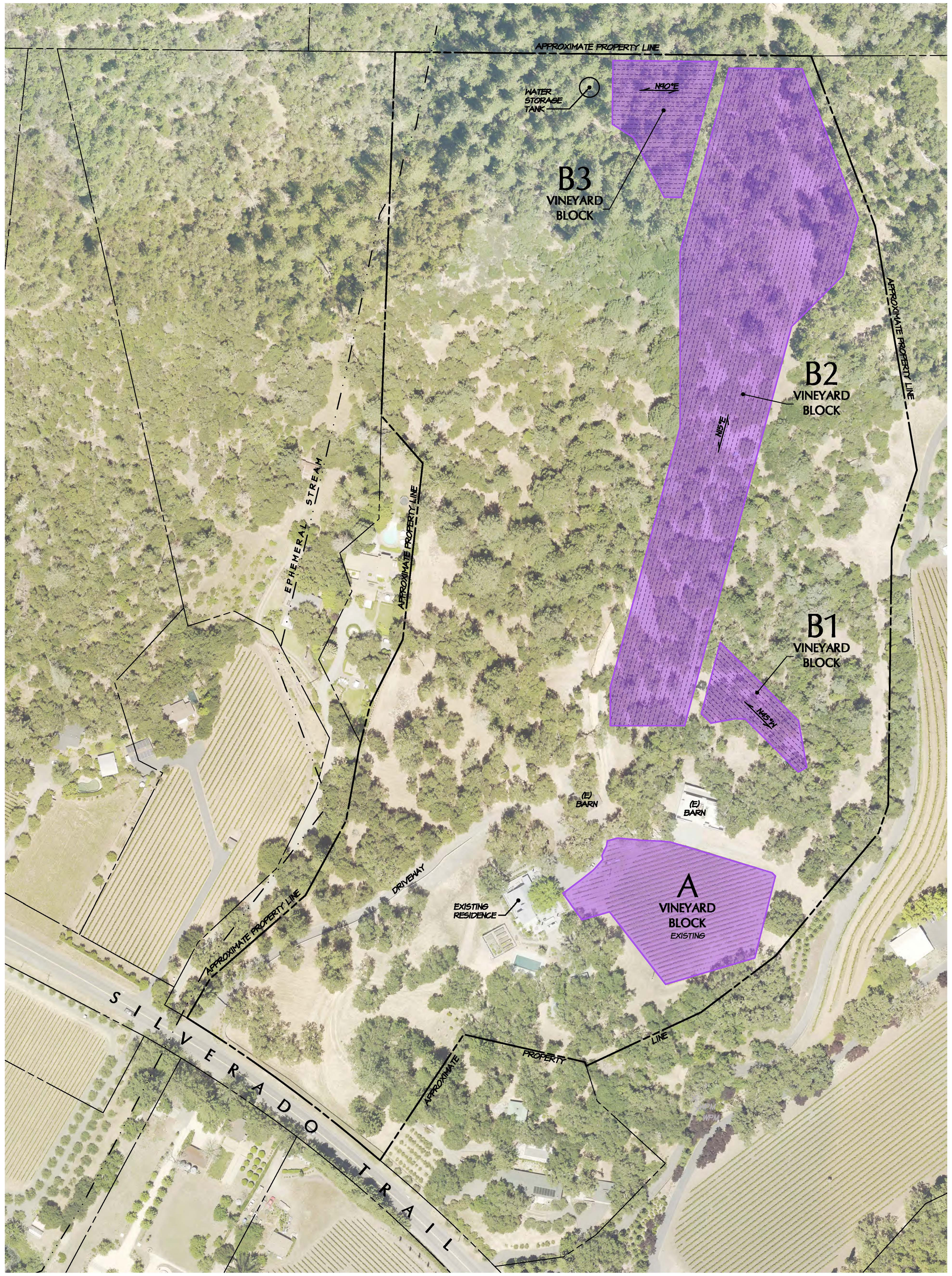
www.barteltengineering.com
· Telephone: 707-258-1301 ·

MILLER VINEYARD
SITE PLAN

NAPA COUNTY CALIFORNIA

DATE: MAY 2022
JOB NO: 20-10
SHEET NO: EC3
OF 9
2



FARMING PRACTICES EXHIBIT

SCALE: 1" = 100'

SCALE: 1" = 100'

LEGEND:

BEARING	VINEROW DIRECTION
🟪	ALTERNATING-TILL WITH 80% VEGETATIVE COVER

FARMING PRACTICES NOTES:

1. AFTER THE INITIAL THREE (3) YEAR DEVELOPMENT PERIOD, THE VINEYARD IS INTENDED TO HAVE AN ALTERNATE-TILLED COVER CROP WITH A MINIMUM OF 80 PERCENT COVER BETWEEN VINEROWS FARMED WITH WHEELED OR TRACK-DRIVEN VEHICLES. SEE VINEYARD DEVELOPMENT SUMMARY TABLE FOR ADDITIONAL INFORMATION.

2. A POST EMERGENT HERBICIDE APPLICATION IN A 12 INCH WIDE SPRAY STRIP BENEATH THE VINEROWS MAY BE USED AS NECESSARY.

3. PROPOSED DEPTH OF RIPPING FOR INITIAL VINEYARD DEVELOPMENT IS 30 INCHES.

4. THROUGHOUT THE LIFE OF THE VINEYARD, IT MAY BE NECESSARY TO REESTABLISH THE VEGETATIVE COVER CROP. IN SUCH INSTANCES, THE COVER CROP WILL BE MANAGED AS DESCRIBED IN THE "PROTOCOL FOR RE-PLANTING/RENEWAL OF APPROVED NON-TILLED VINEYARD COVER CROPS" AS DESCRIBED IN A MEMORANDUM FROM PATRICK LOWE, NAPA COUNTY CONSERVATION, DEVELOPMENT AND PLANNING DEPARTMENT, DATED APRIL 12, 2004. PRE-IRRIGATION OF THE COVER CROP MAY BE PERFORMED, AS NECESSARY, TO ESTABLISH AND MAINTAIN THE COVER CROP UNTIL THE ONSET OF WINTER RAINS. IF THE COVER CROP IS RE-ESTABLISHED TO 80 PERCENT SURFACE COVER, STRAW MULCH WILL NOT BE REQUIRED.

5. PROTOCOL FOR RE-PLANTING/RENEWAL OF APPROVED NON-TILLED VINEYARD COVER CROPS:

   A. RATIONALE: UNDER NORMAL FARMING CONDITIONS NON-TILLED VINEYARD COVER CROPS MAY NEED TO BE ROUTINELY RE-ESTABLISHED, OR RENEWED, EVERY FOUR (4) TO FIVE (5) YEARS BASED ON FACTORS ROUTINELY ENCOUNTERED DURING VINEYARD FLOOR MANAGEMENT. THOSE FACTORS INCLUDE:
      - WEED MANAGEMENT AND WEED COMPETITION WITH THE SELECTED COVER CROP.
      - EXCESSIVE COMPETITION WITH VINES BY THE SELECTED COVER CROP.
      - POOR SEED DEVELOPMENT AND GERMINATION, WHERE THE SELECTED ANNUAL COVER CROP RELIES UPON ANNUAL SEED PRODUCTION FOR YEAR-TO-YEAR SUCCESSION.

   B. IN ADDITION, UNFORESEEN EVENTS MAY AFFECT VINEYARD FLOOR MANAGEMENT SYSTEMS IN A MUCH SHORTER TIME FRAME. IT MAY BECOME NECESSARY TO RE-ESTABLISH OR RENEW THE NON-TILLED COVER CROP ON A LIMITED EMERGENCY BASIS. SUCH LIMITED EMERGENCY SITUATIONS MIGHT INCLUDE UNFORESEEN EVENTS SUCH AS:
      - SUBSTANTIAL INFESTATION BY "PESTS", SUCH AS BURROWING RODENTS, INSECTS, FUNGI, ETC. THAT REDUCE THE VIGOR AND EFFECTIVENESS OF THE SELECTED COVER CROP.
      - CATASTROPHIC WEATHER CONDITIONS, SUCH AS PROLONGED DROUGHT OR UNSEASONABLE HEAVY RAINFALL.
      - DEGRADED SOIL STRUCTURE AND FUNCTION, SUCH AS COMPACTION, RUTTING, OR MOUNDING DUE TO UNAVOIDABLE VINEYARD OPERATIONS DURING WET SOIL CONDITIONS.
      - A TEMPORARY OR PERMANENT LOSS OF IRRIGATION WATER SUPPLY, LEADING TO INCREASED RELIANCE ON AMBIENT SOIL MOISTURE TO MAINTAIN COVER CROP PRODUCTION.
      - UNFORESEEN EXCAVATION OR GRADING TO REPAIR DAMAGED IRRIGATION OR RUNOFF CONTROL SYSTEMS.

   C. PROTOCOL: EROSION CONTROL PLANS SHOULD PROVIDE SITE-SPECIFIC SPECIFICATIONS FOR COVER CROP RE-ESTABLISHMENT OR RENEWAL FOR THE PREDICTABLE CIRCUMSTANCES MENTIONED ABOVE. HOWEVER, WHEN IT BECOMES NECESSARY, EITHER BY ROUTINE OR EMERGENCY, TO RE-ESTABLISH OR RENEW VINEYARD COVER CROP, A PROTOCOL INCORPORATING THE FOLLOWING MEASURES SHOULD BE FOLLOWED:
      - SEEK PROFESSIONAL CONSULTATION, INCLUDING SOIL NUTRIENT ANALYSIS, TO DETERMINE THE REASONS FOR THE ORIGINAL COVER CROP'S FAILURE. ADJUST SOIL FERTILITY, IRRIGATION, AND SEED SELECTION ACCORDINGLY.
      - WHEN TILLAGE IS NECESSARY, ALTERNATE ROWS SHOULD BE TILLED, SEEDED, AND STRAW-MULCHED TO EFFECTIVELY ACCOMPLISH THE RE-ESTABLISHMENT/RENEWAL PROCESS OVER A TWO (2) YEAR PERIOD.

   D. TILLAGE AND RE-SEEDING SHOULD BE CONDUCTED IN THE FOLLOWING MANNER:
      - IN YEAR ONE (1), TILL TO PREPARE SEED BED AND SOW DESIRED COVER CROP IN EVERY OTHER ROW ("THE EVENS"), LEAVING THE ALTERNATE ROWS ("THE ODDS") UNTILLED AND MOWED ONLY.
      - MULCH ALL TILLED ROWS HAVING AN UP AND DOWN HILL (PERPENDICULAR TO CONTOUR) ROW DIRECTION WITH 4,000 POUNDS PER ACRE OF LOOSE STRAW, OR APPROVED EQUIVALENT, AFTER SEEDING.
      - TILLED ROWS WITH CROSS-SLOPE (PARALLEL TO CONTOUR) ROW DIRECTION AND SLOPE GRADIENTS LESS THAN 15% MAY NOT REQUIRE STRAW MULCH.
      - IN YEAR TWO (2), TILL TO PREPARE SEED BED AND SOW DESIRED COVER CROP IN "ODD" ROWS.
      - IN YEAR TWO (2), LEAVE "EVEN" ROWS UNTILLED AND MOWED ONLY.
      - MULCH ROWS TILLED IN YEAR TWO (2) AS SPECIFIED ABOVE.
      - PUT ALL RE-ESTABLISHMENT MEASURES IN PLACE BY THE REGULAR WINTERIZATION DEADLINE BASED UPON THE LOCATION OF THE VINEYARD.
      - IN YEAR THREE (3), RETURN ALL ROWS TO NON-TILLED CULTURE.

NO.	DATE	DESCRIPTION	BY
△2	03-31-2023	NO CHANGE TO THIS SHEET	KNK
△1	01-25-2023	UPDATED PER BARTELT ENGINEERING STANDARDS	KNK

RICHARD PAXTON
No. 84634
CIVIL

PREPARED UNDER THE DIRECTION OF

Richard Paxton
RICHARD PAXTON 03-31-2023

MILLER VINEYARD
FARMING PRACTICES EXHIBIT
NAPA COUNTY CALIFORNIA

BARTELT
ENGINEERING
CIVIL ENGINEERING · LAND PLANNING
1303 Jefferson Street, 200 B, Napa, CA 94559
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DES: RP
DRWN: KNK
CHKD: PNB

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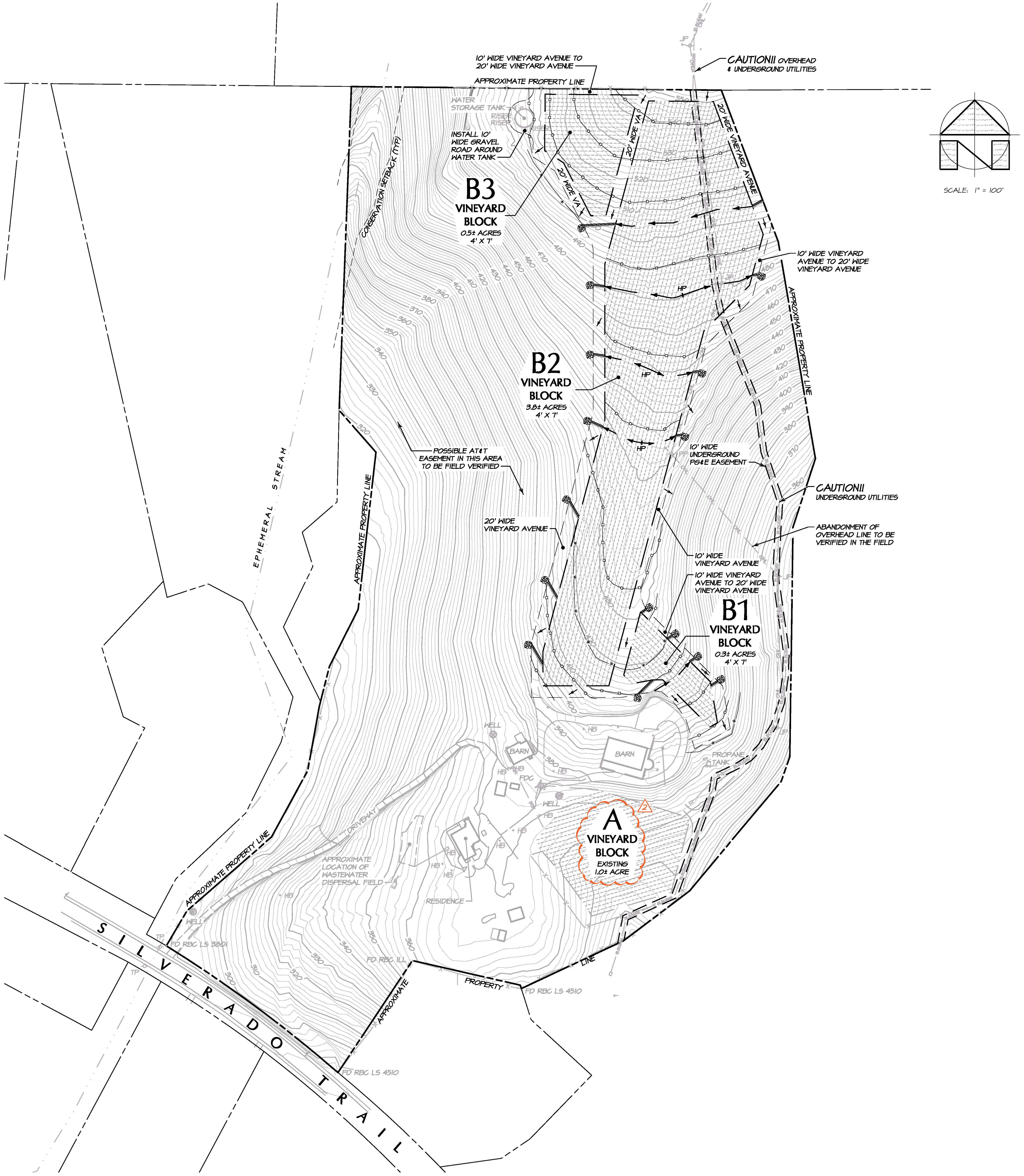
DATE: MAY 2022
JOB NO: 2010
SHEET NO:
EC4
OF 9 △2


10' WIDE VINEYARD AVENUE TO 20' WIDE VINEYARD AVENUE
APPROXIMATE PROPERTY LINE
CAUTION!! OVERHEAD & UNDERGROUND UTILITIES
WATER STORAGE TANK
RISER
INSTALL 10' WIDE GRAVEL ROAD AROUND WATER TANK
CONSERVATION SETBACK (TYP)
20' WIDE VA
20' WIDE VINEYARD AVENUE
B3
VINEYARD BLOCK
0.5± ACRES
4' X 7'
10' WIDE VINEYARD AVENUE TO 20' WIDE VINEYARD AVENUE
HP
APPROXIMATE PROPERTY LINE
B2
VINEYARD BLOCK
3.8± ACRES
4' X 7'
POSSIBLE AT&T EASEMENT IN THIS AREA TO BE FIELD VERIFIED
10' WIDE UNDERGROUND PG&E EASEMENT
CAUTION!! UNDERGROUND UTILITIES
20' WIDE VINEYARD AVENUE
ABANDONMENT OF OVERHEAD LINE TO BE VERIFIED IN THE FIELD
10' WIDE VINEYARD AVENUE
10' WIDE VINEYARD AVENUE TO 20' WIDE VINEYARD AVENUE
B1
VINEYARD BLOCK
0.3± ACRES
4' X 7'
EPHEMERAL STREAM
APPROXIMATE PROPERTY LINE
WELL
BARN
HB
FDC
PROPANE TANK
DRIVEWAY
A
VINEYARD BLOCK
EXISTING 1.0± ACRE
2
APPROXIMATE LOCATION OF WASTEWATER DISPERSAL FIELD
RESIDENCE
FD RBC LS 3801
TP
FD RBC ILL
FD RBC LS 4510
APPROXIMATE PROPERTY LINE
SILVERADO TRAIL
FD RBC LS 4510
SCALE: 1" = 100'

VINEYARD LAYOUT PLAN

SCALE: 1" = 100'

LEGEND:

○	EXISTING TREE
ELEC(UG) — ELEC(UG)	EXISTING PG&E ELECTRICAL UNDERGROUND LINE
IRR — IRR	EXISTING IRRIGATION LINE
OHL — OHL	EXISTING OVERHEAD LINE (ABANDONED)
→ → →	INSTALL CROSS-SLOPE DIVERSION SWALE (SEE DETAIL)
▫ ▫ ▫	INSTALL WATTLE SEDIMENT BARRIER (SEE DETAIL)
* *	INSTALL SILT FENCE SEDIMENT BARRIER (SEE DETAIL)
— — —	LIMITS OF CLEARING OR EDGE OF VINEYARD AVENUE
↗ ↗ ↗	GRADE TO DRAIN
— — —	EDGE OF VINEYARD BLOCK
▨	PROPOSED VINEYARD LAYOUT & VINEROW DIRECTION
▬	INSTALL WATERBAR (SEE DETAIL)
⁂	INSTALL ROCK ENERGY DISSIPATER PER PLAN (SEE DETAIL)

VINEYARD BLOCK 'A' NOTE:

VINEYARD BLOCK 'A' SHOWN HEREON HAS NOT BEEN APPROVED BY THE NAPA COUNTY PLANNING, BUILDING & ENVIRONMENTAL SERVICES DEPARTMENT AND IS INCLUDED IN THIS PLAN FOR APPROVAL.

NOTES:

1. AFTER THE EXISTING VEGETATION HAS BEEN REMOVED, THE SOIL RIPPED, AND ROCK RAKED, THE DISTURBED AREA WILL BE TRACK-WALKED, SEEDED, AND STRAW MULCHED (SEE DETAILS).
2. SEDIMENT BARRIERS SHALL BE INSTALLED PRIOR TO OCTOBER 15, FOLLOWING THE INITIAL GROUND PREPARATION FOR THE VINEYARDS. ONCE VINES ARE PLANTED, THE EXTENT OF ANNUAL SEDIMENT BARRIER INSTALLATION SHALL BE DETERMINED BASED ON THE OWNER'S ABILITY TO ESTABLISH A 80 PERCENT MINIMUM COVER CROP, PROOF THAT THE VINEYARD AREA HAS STABILIZED, AND THAT POTENTIAL EROSION CAN BE MINIMIZED THROUGH ANNUAL SEEDING, MULCHING, AND THE ESTABLISHMENT OF A HEALTHY COVER CROP.
3. ALL ROCK EXTRACTED DURING SOIL PREPARATION SHALL BE USED ONSITE.
4. EXTENT OF WORK CAN VARY AS DIRECTED BY THE ENGINEER IN THE FIELD BASED ON THE AMOUNT OF ROCK EXTRACTED DURING SOIL PREPARATION.
5. ALL PROPOSED IRRIGATION LINES WILL BE INSTALLED WITHIN THE LIMITS OF THE PROPOSED VINEYARD AVENUES AND/OR VINEYARD BLOCKS.
6. REFER TO THE TIMBER CONVERSION PLAN PREPARED BY ENVIRONMENTAL RESOURCE MANAGEMENT.

NO.	DATE	DESCRIPTION	BY
2	03-31-2023	VINEYARD BLOCK A ACTUAL ACREAGE	KNK
1	01-25-2023	NO CHANGE TO THIS SHEET	KNK

RICHARD PAXTON
No. 84634
CIVIL

PREPARED UNDER THE DIRECTION OF

Richard Paxton
RICHARD PAXTON 03-31-2023

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DES:	RP
DRWN:	KNK
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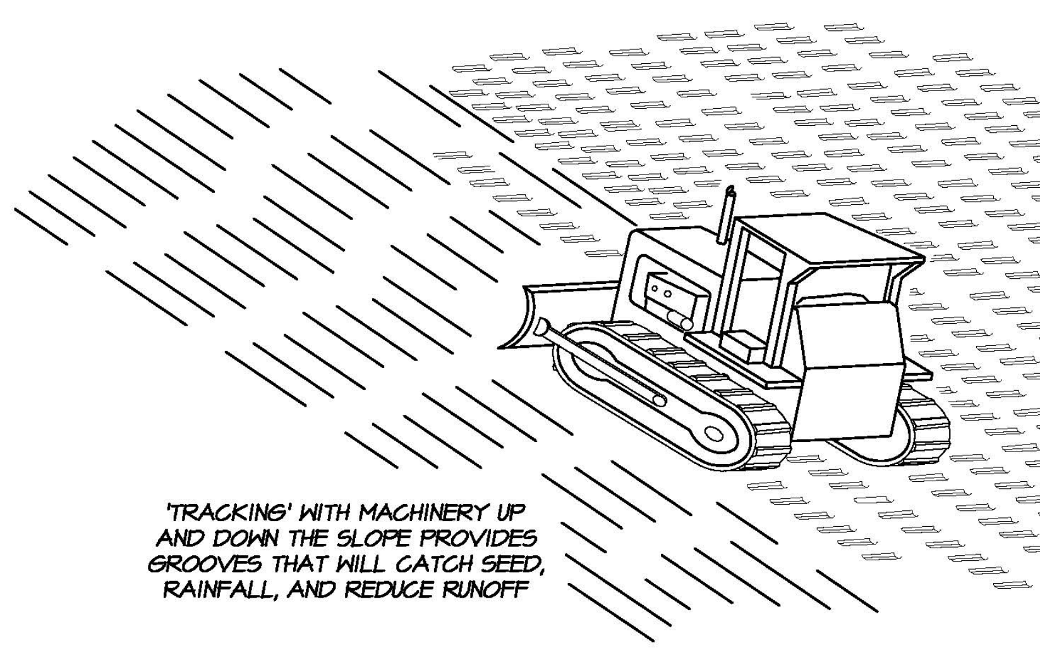
MILLER VINEYARD
VINEYARD LAYOUT PLAN

NAPA COUNTY CALIFORNIA

DATE: MAY 2022
JOB NO: 20-10
SHEET NO: EC5
OF 9 2

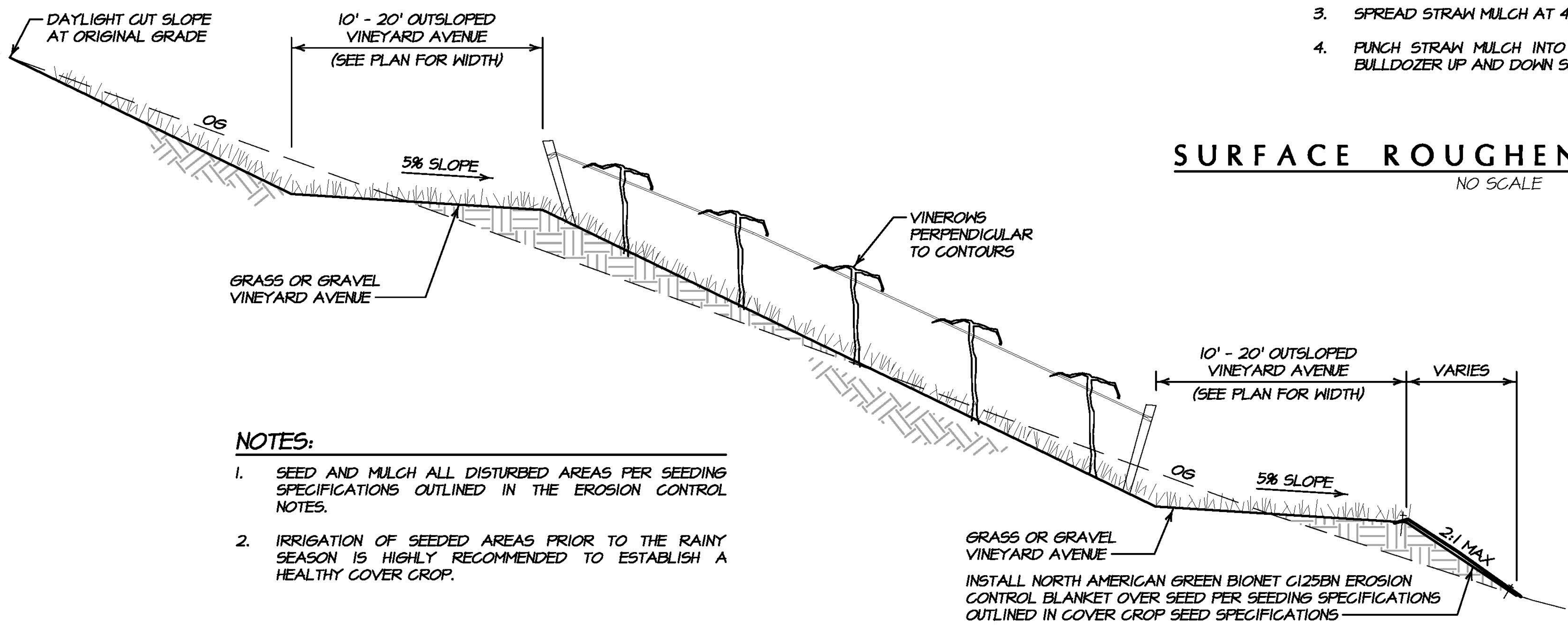
3/31/2023 - 1:02 PM, kristenk, S:\LAND PROJECTS\2018-2022\2010\2020 ECP TRK 1\ACAD\PLANS\2010-ECP TRK1.DWG, EC5-ECP, ARCH FULL BLEED D (36.00 X 24.00 INCHES), 1" = 1', PLOTTED @ BARTELT ENGINEERING, 707-258-1301


'TRACKING' WITH MACHINERY UP AND DOWN THE SLOPE PROVIDES GROOVES THAT WILL CATCH SEED, RAINFALL, AND REDUCE RUNOFF

NOTES:
1. ROUGHEN SLOPE WITH BULLDOZER.
2. BROADCAST SEED AND FERTILIZER.
3. SPREAD STRAW MULCH AT 4,000 LBS PER ACRE.
4. PUNCH STRAW MULCH INTO SLOPE BY RUNNING BULLDOZER UP AND DOWN SLOPE.

SURFACE ROUGHENING DETAIL

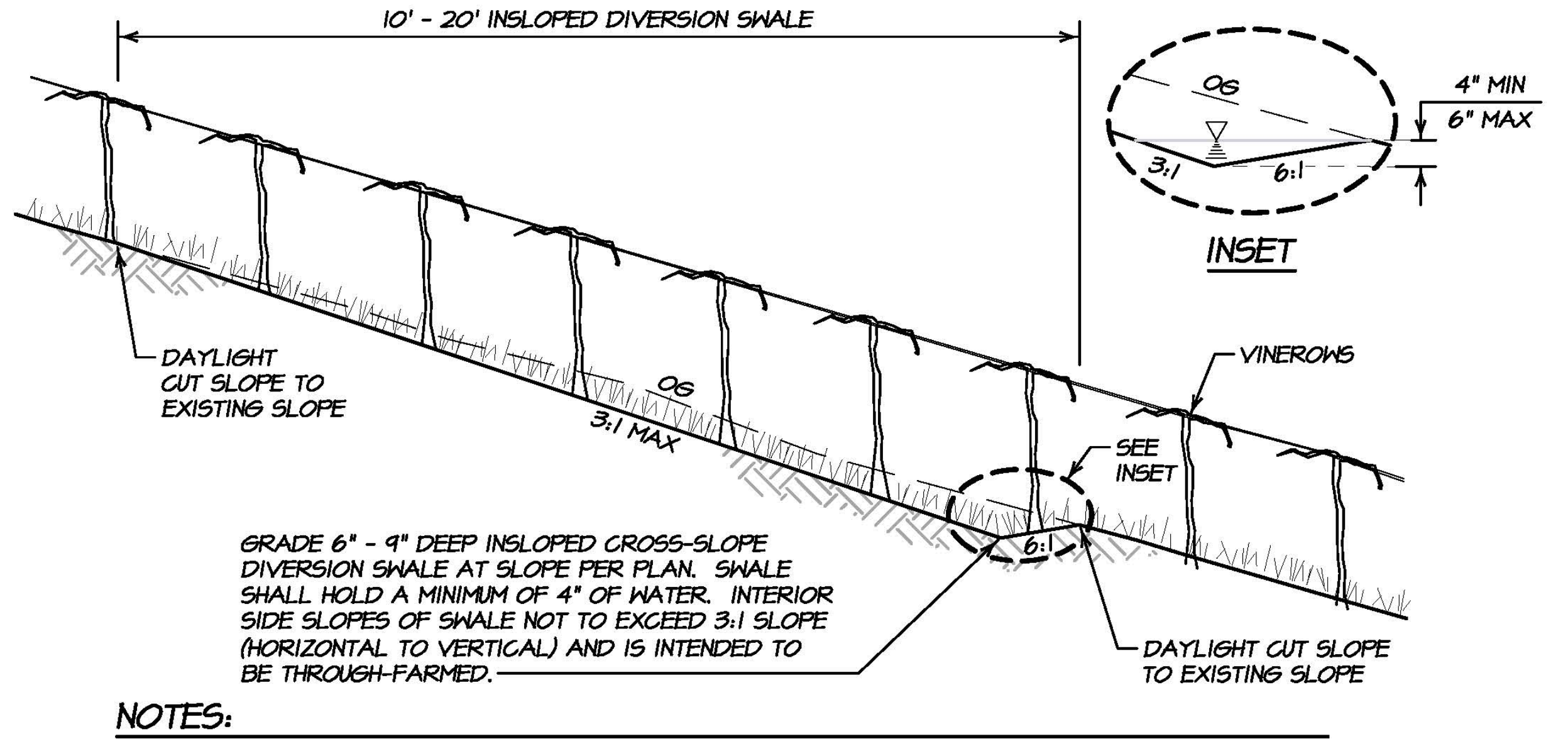
NO SCALE


DAYLIGHT CUT SLOPE AT ORIGINAL GRADE
10' - 20' OUTSLOPED VINEYARD AVENUE (SEE PLAN FOR WIDTH)
OG
5% SLOPE
GRASS OR GRAVEL VINEYARD AVENUE
VINEROWS PERPENDICULAR TO CONTOURS
10' - 20' OUTSLOPED VINEYARD AVENUE (SEE PLAN FOR WIDTH)
VARIES
OG
5% SLOPE
2:1 MAX
GRASS OR GRAVEL VINEYARD AVENUE
INSTALL NORTH AMERICAN GREEN BIONET C125BN EROSION CONTROL BLANKET OVER SEED PER SEEDING SPECIFICATIONS OUTLINED IN COVER CROP SEED SPECIFICATIONS

NOTES:
1. SEED AND MULCH ALL DISTURBED AREAS PER SEEDING SPECIFICATIONS OUTLINED IN THE EROSION CONTROL NOTES.
2. IRRIGATION OF SEEDED AREAS PRIOR TO THE RAINY SEASON IS HIGHLY RECOMMENDED TO ESTABLISH A HEALTHY COVER CROP.

OUTSLOPED VINEYARD AVENUE AT TOP & BOTTOM OF VINEYARD BLOCK SECTION

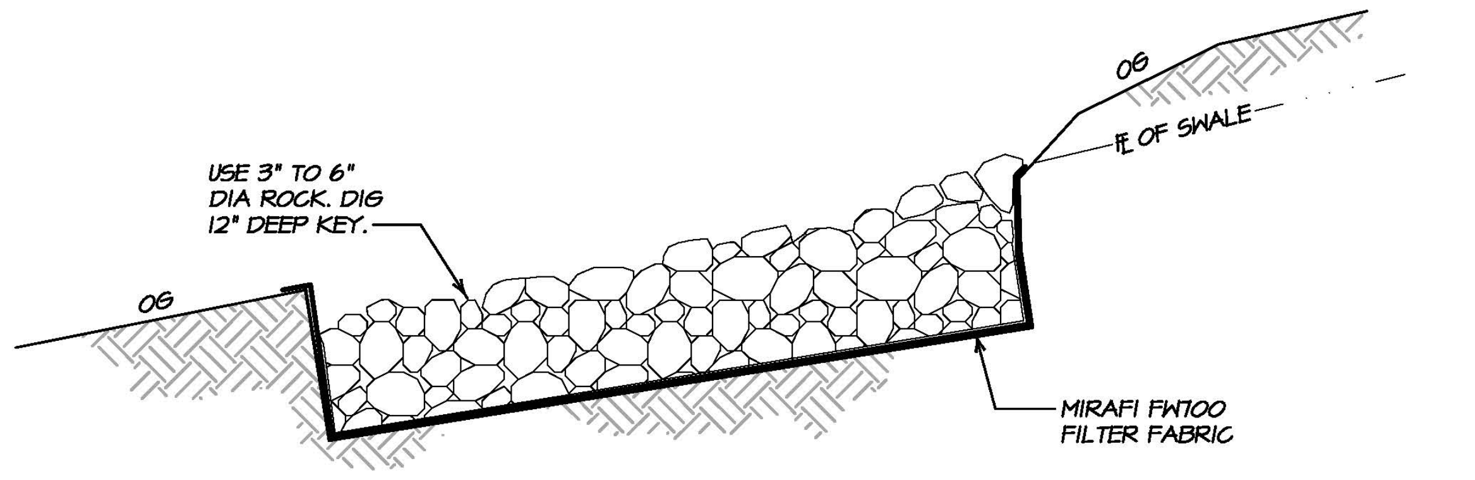
NO SCALE


10' - 20' INSLOPED DIVERSION SWALE
OG
4" MIN
6" MAX
3:1
6:1
INSET
DAYLIGHT CUT SLOPE TO EXISTING SLOPE
OG
3:1 MAX
VINEROWS
SEE INSET
6:1
DAYLIGHT CUT SLOPE TO EXISTING SLOPE
GRADE 6" - 9" DEEP INSLOPED CROSS-SLOPE DIVERSION SWALE AT SLOPE PER PLAN. SWALE SHALL HOLD A MINIMUM OF 4" OF WATER. INTERIOR SIDE SLOPES OF SWALE NOT TO EXCEED 3:1 SLOPE (HORIZONTAL TO VERTICAL) AND IS INTENDED TO BE THROUGH-FARMED.

NOTES:
1. GRADE SWALE ENTIRELY IN CUT WHERE POSSIBLE. IF FILL IS USED FOR A BERM, FILL MUST BE MOISTURE CONDITIONED AND COMPACTED TO ACHIEVE 90 PERCENT RELATIVE COMPACTION.
2. NORTH AMERICAN GREEN BIONET C125BN EROSION CONTROL BLANKET SHALL BE INSTALLED OVER SEED ALONG THE ENTIRE DIVERSION SWALE. BLANKETS SHALL EXTEND OVER THE ENTIRE BERM AND UPSLOPE OF FLOW, AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
3. IRRIGATION OF SEEDED AREAS ALONG DIVERSION SWALES PRIOR TO THE RAINY SEASON IS HIGHLY RECOMMENDED TO ESTABLISH A HEALTHY COVER CROP.
4. FLOWLINE OF SWALE SHOULD NOT EXCEED 5 PERCENT.
5. LENGTH OF SWALE SHOULD NOT BE LONGER THAN 150 FEET.
6. SWALE OUTLET SHALL BE STABILIZED AGAINST EROSION.

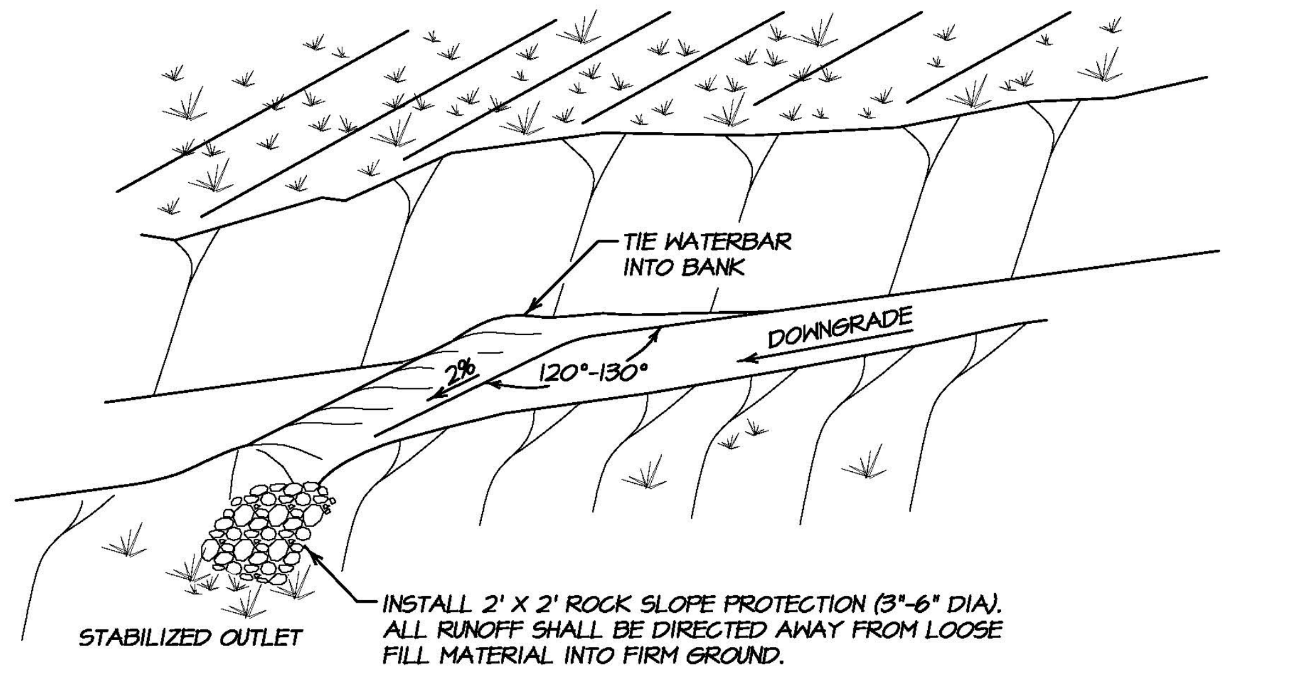
CROSS-SLOPE DIVERSION SWALE DETAIL

NO SCALE

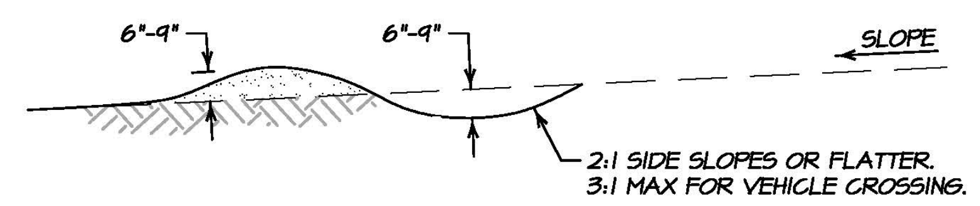

USE 3" TO 6" DIA ROCK. DIG 12" DEEP KEY.
OG
OG
FL OF SWALE
MIRAFI FW700 FILTER FABRIC

ROCK ENERGY DISSIPATER DETAIL

NO SCALE


TIE WATERBAR INTO BANK
DOWNGRADE
2%
120°-130°
STABILIZED OUTLET
INSTALL 2' X 2' ROCK SLOPE PROTECTION (3"-6" DIA). ALL RUNOFF SHALL BE DIRECTED AWAY FROM LOOSE FILL MATERIAL INTO FIRM GROUND.

ISOMETRIC



CROSS SECTION

MAXIMUM DISTANCE BETWEEN WATERBARS				
EROSION HAZARD	ROAD OR AVENUE SLOPE			
	10% OR LESS	11% - 25%	26% - 50%	50% OR MORE
EXTREME	100'	75'	50'	50'
HIGH	150'	100'	75'	50'
MODERATE	200'	150'	100'	75'
LOW	300'	200'	150'	100'

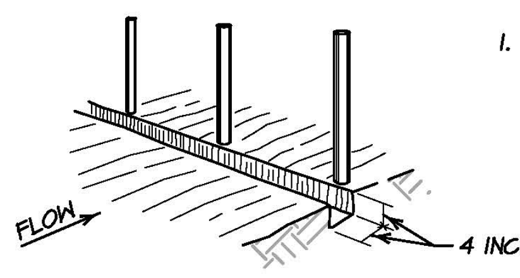
REFERENCE CALIFORNIA FOREST PRACTICE RULES

TYPICAL WATERBAR DETAIL

NO SCALE

INSTALLATION OF SILT FENCE SEDIMENT BARRIER

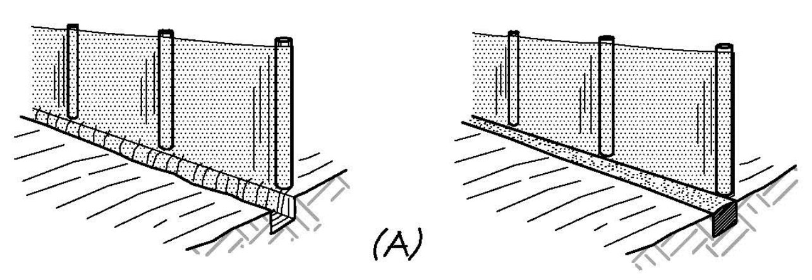
1. LAY OUT A SUITABLE FENCE LINE AND SET POSTS ALONG IT. ON SLOPES, ALIGN THE FENCE ALONG THE CONTOUR AS CLOSELY AS POSSIBLE. IN SMALL SWALES, CURVE THE FENCE LINE UPSTREAM AT THE ENDS TO DIRECT THE FLOW TOWARD THE MIDDLE OF THE FENCE.
2. SPACE POSTS ON SIX (6) FOOT CENTERS AND DRIVE THEM A MINIMUM OF 12 INCHES INTO THE GROUND. POSTS FOR SILT FENCES CAN BE EITHER 1-1/2 INCHES MINIMUM DIAMETER HARD WOOD OR 1.33 POUNDS PER FOOT STEEL WITH A MINIMUM LENGTH OF FIVE (5) FEET. STEEL POSTS MUST HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
3. FASTEN THE FILTER FABRIC TO THE UPHILL SIDE OF THE FENCE POSTS, AND EXTEND TO SIX (6) TO EIGHT (8) INCHES INTO THE TRENCH. THE HEIGHT OF THE FENCE SHOULD NOT EXCEED 36 INCHES. DO NOT STAPLE FABRIC ONTO TREES. CUT THE FILTER FABRIC FROM A CONTINUOUS ROLL TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, SPLICE THE FILTER CLOTH AT A SUPPORT POST, WITH A MINIMUM SIX (6) INCHES OVERLAP, AND SECURELY FASTEN BOTH ENDS TO THE POST.
4. BACKFILL THE TRENCH OVER THE TOE OF THE FABRIC AND COMPACT THE SOIL.
5. PREFABRICATED SILT FENCE WITH POSTS MAY BE USED AS AN ALTERNATE TO SETTING STEEL OR WOOD POSTS.

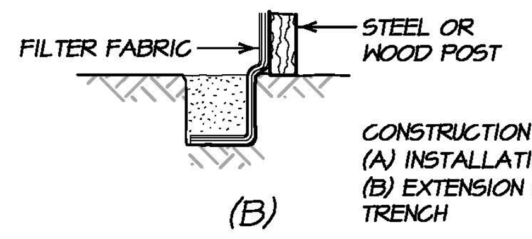


1. SET STEEL OR WOOD POSTS (SEE NOTE 1) AND EXCAVATE A FOUR (4) INCH BY FOUR (4) INCH TRENCH UPSLOPE FROM AND ALONG THE LINE OF POSTS.

2. INSTALL MIRAFI FILTER FABRIC SILT FENCE WITH POCKETS (OR APPROVED EQUAL) ON THE STEEL POSTS AND EXTEND IT INTO THE TRENCH.

3. BACKFILL AND COMPACT THE EXCAVATED SOIL.


(A)



(B)

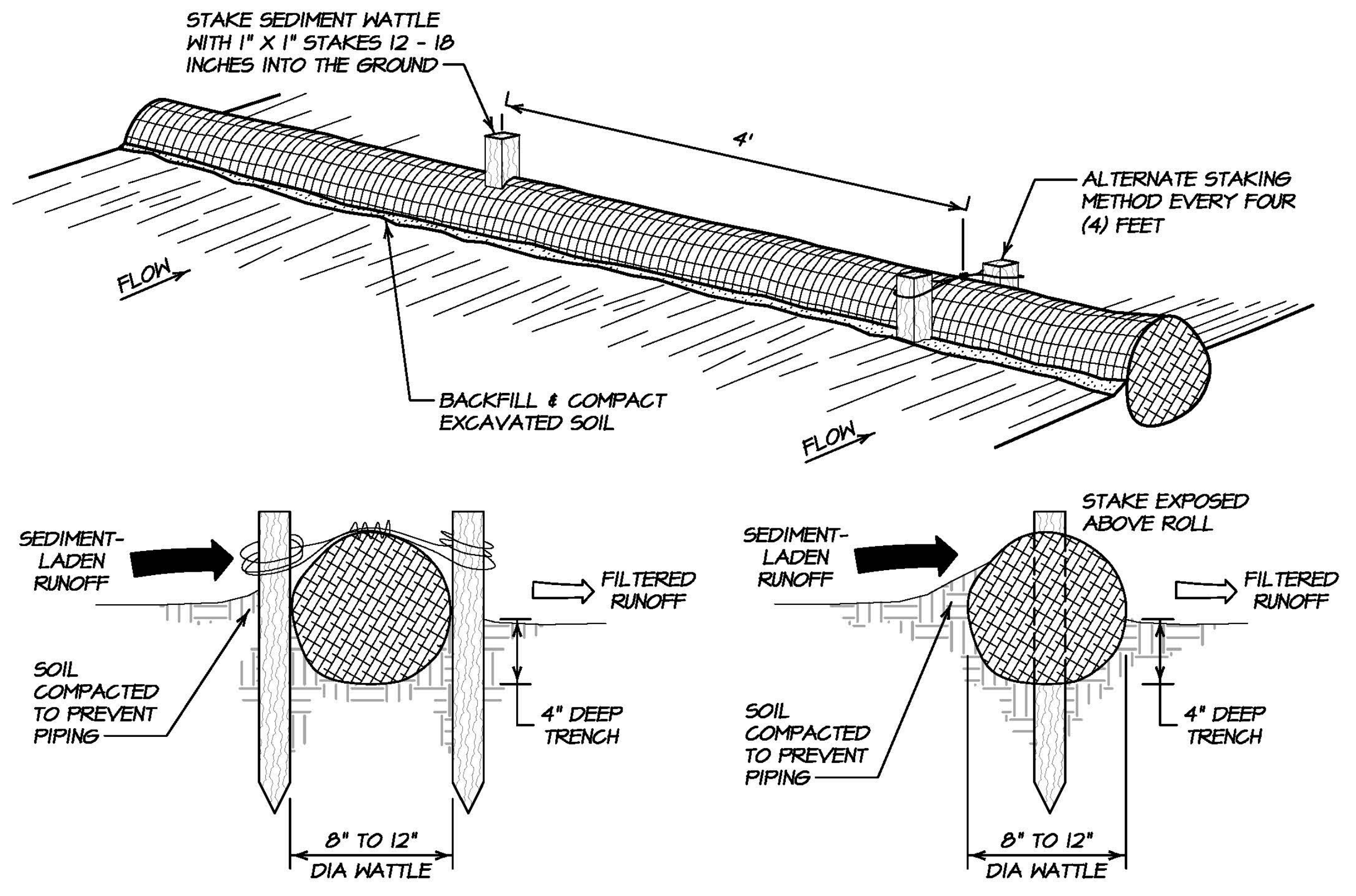
CONSTRUCTION OF A SILT FENCE:
(A) INSTALLATION SEQUENCE
(B) EXTENSION OF FABRIC INTO THE TRENCH

SILT FENCE SEDIMENT BARRIER DETAIL

NO SCALE

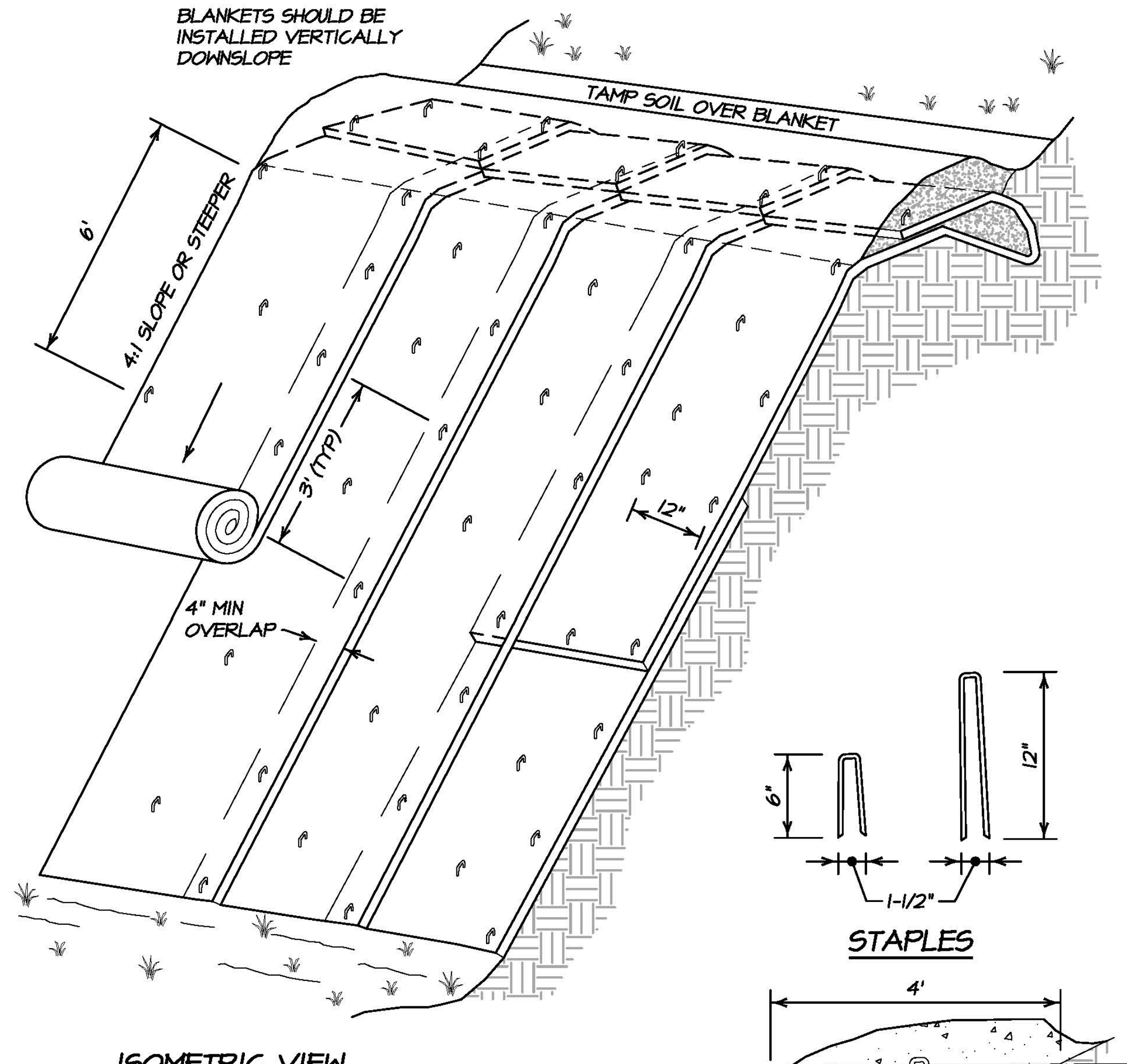
INSTALLATION OF WATTLE SEDIMENT BARRIER

1. PREPARE THE SLOPE BEFORE THE WATTLING PROCEDURE IS STARTED. SHALLOW GULLIES SHOULD BE SMOOTHED AS WORK PROGRESSES.
2. DIG SMALL TRENCHES ACROSS THE SLOPE ON CONTOUR, TO PLACE ROLLS IN. THE TRENCH SHOULD BE DEEP ENOUGH TO ACCOMMODATE HALF THE THICKNESS OF THE ROLL. WHEN THE SOIL IS LOOSE AND UNCOMPACTED, THE TRENCH SHOULD BE DEEP ENOUGH TO BURY THE ROLL 2/3 OF ITS THICKNESS BECAUSE THE GROUND WILL SETTLE.
3. IT IS CRITICAL THAT ROLLS ARE INSTALLED PERPENDICULAR TO WATER MOVEMENT, PARALLEL TO THE SLOPE CONTOUR. START BUILDING TRENCHES AND INSTALL ROLLS FROM THE BOTTOM OF THE SLOPE AND WORK UP.
4. CONSTRUCT TRENCHES AT CONTOUR INTERVALS DEPENDING ON STEEPNESS OF SLOPE. THE STEEPER THE SLOPE, THE CLOSER TOGETHER THE TRENCHES. LAY THE ROLL ALONG THE TRENCHES FITTING IT SNUGLY AGAINST THE SOIL. MAKE SURE NO GAPS EXIST BETWEEN THE SOIL AND THE STRAW WATTLE.
5. USE A STRAIGHT BAR TO DRIVE HOLES THROUGH THE WATTLE AND INTO THE SOIL FOR THE WILLOW OR WOODEN STAKES. DRIVE THE STAKE THROUGH PREPARED HOLE INTO SOIL. LEAVE ONLY ONE (1) OR TWO (2) INCHES OF STAKE EXPOSED ABOVE ROLL.
6. INSTALL STAKES AT LEAST EVERY FOUR (4) FEET APART THROUGH THE WATTLE AS SHOWN BELOW.
7. STRAW WATTLE SHALL BE 100 PERCENT BIODEGRADABLE.
8. WATTLES AND STAKES SHALL BE REMOVED AND DISPOSED OF PROPERLY OFFSITE ONCE COVER CROP IS ESTABLISHED AND NOTICE IS RECEIVED FROM ENGINEER.


STAKE SEDIMENT WATTLE WITH 1" X 1" STAKES 12 - 18 INCHES INTO THE GROUND
4'
ALTERNATE STAKING METHOD EVERY FOUR (4) FEET
FLOW
BACKFILL & COMPACT EXCAVATED SOIL
FLOW
SEDIMENT-LADEN RUNOFF
FILTERED RUNOFF
SOIL COMPACTED TO PREVENT PIPING
4" DEEP TRENCH
8" TO 12" DIA WATTLE
STAKE EXPOSED ABOVE ROLL
SEDIMENT-LADEN RUNOFF
FILTERED RUNOFF
SOIL COMPACTED TO PREVENT PIPING
4" DEEP TRENCH
8" TO 12" DIA WATTLE

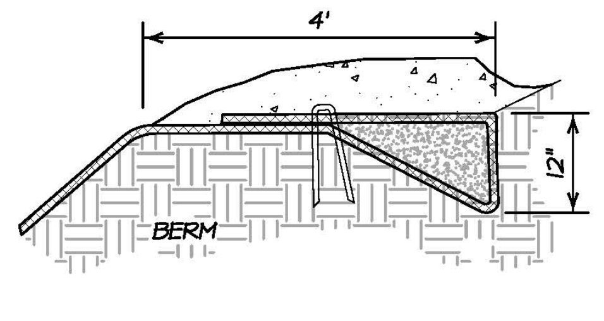
WATTLE SEDIMENT BARRIER DETAIL

NO SCALE



ISOMETRIC VIEW

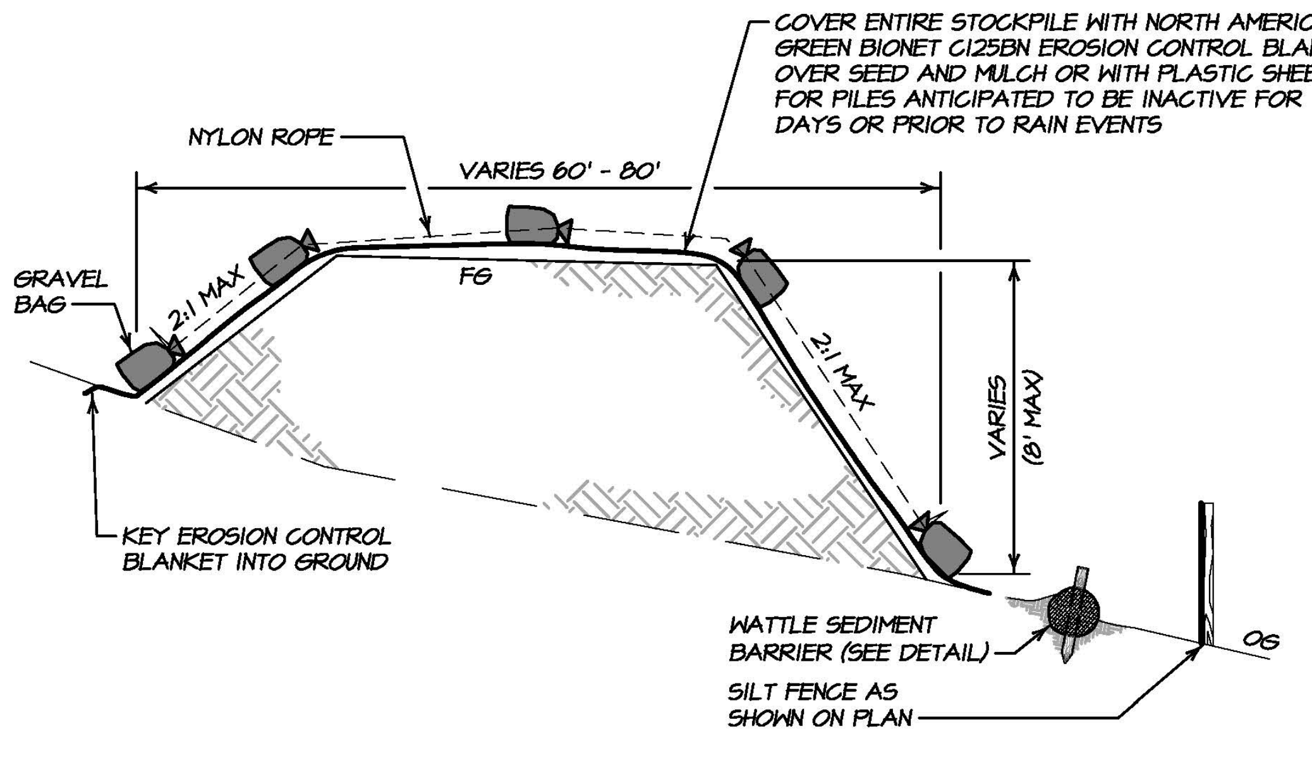
STAPLES



NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS. BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
3. LAY NORTH AMERICAN GREEN BIONET C125BN BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

SLOPE STABILIZATION & EROSION CONTROL BLANKET INSTALLATION DETAIL

NO SCALE


COVER ENTIRE STOCKPILE WITH NORTH AMERICAN GREEN BIONET C125BN EROSION CONTROL BLANKET OVER SEED AND MULCH OR WITH PLASTIC SHEETING FOR PILES ANTICIPATED TO BE INACTIVE FOR 14 DAYS OR PRIOR TO RAIN EVENTS
NYLON ROPE
VARIES 60' - 80'
GRAVEL BAG
OG
2:1 MAX
FG
2:1 MAX
VARIES (8' MAX)
KEY EROSION CONTROL BLANKET INTO GROUND
WATTLE SEDIMENT BARRIER (SEE DETAIL)
SILT FENCE AS SHOWN ON PLAN
OG

NOTES:
1. IF STOCKPILE IS TOPSOIL, IT MAY BE PROTECTED BY APPLYING STRAW MULCH AND EROSION CONTROL SEED MIX IN PLACE OF PLASTIC SHEETING. IF GRASSES FAIL TO ESTABLISH EFFECTIVE COVER, PLASTIC SHEETING WILL BE REQUIRED.
2. PLASTIC SHEETING SHALL BE SECURELY HELD IN PLACE WITH A LINE OF GRAVEL BAGS SLUNG OVER THE TOP OF THE STOCK PILE WITH ROPE.

TYPICAL STOCKPILE CROSS SECTION

NO SCALE

NO.	DATE	DESCRIPTION	BY
2	03-31-2023	NO CHANGE TO THIS SHEET	KNK
1	01-25-2023	NO CHANGE TO THIS SHEET	KNK

RICHARD PAXTON
No. 84634
CIVIL

PREPARED UNDER THE DIRECTION OF

Richard Paxton
RICHARD PAXTON 03-31-2023

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DES: RP
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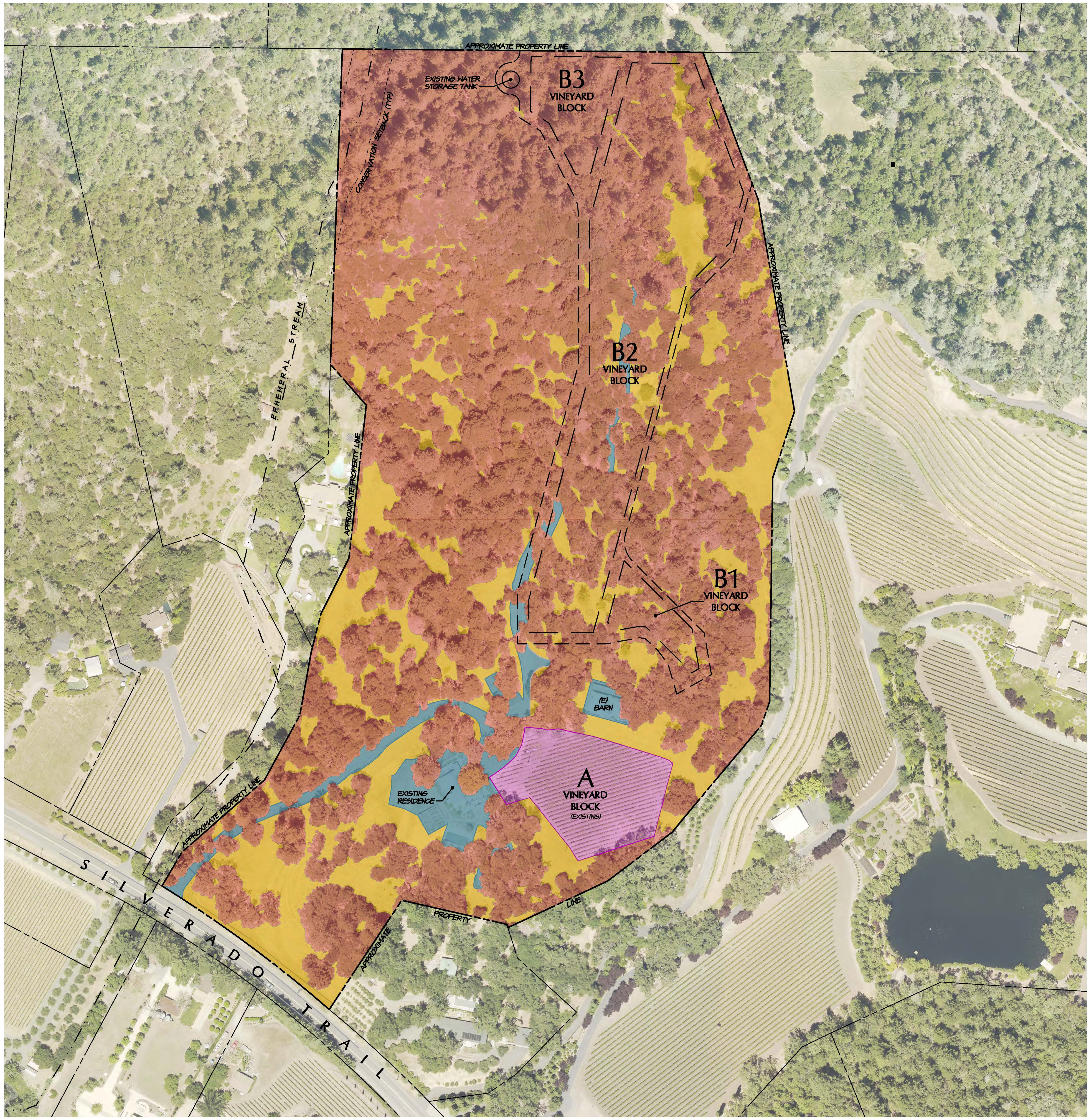
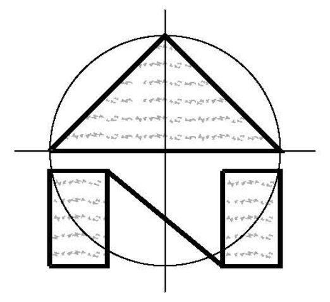
MILLER VINEYARD
DETAIL SHEET

NAPA COUNTY CALIFORNIA

DATE: MAY 2022
JOB NO: 20-10
SHEET NO: EC6
OF 9
2

3/31/2023 - 1:02 PM, kristenk, S:\LAND PROJECTS\2018-2022\2010\2020 ECP TRK 1\ACAD\PLANS\2010-ECP TRK1.DWG, EC6-DETAILS, ARCH FULL BLEED D (36.00 X 24.00 INCHES), 1" = 1', PLOTTED @ BARTELT ENGINEERING, 707-258-1301





SCALE: 1" = 100'

70% VEGETATION RETENTION EXHIBIT 2018 PHOTO

SCALE: 1" = 100'

LEGEND:

🟥	CONIFEROUS FOREST & OAK WOODLAND CANOPY (SEE NOTE 2)
🟪	AGRICULTURAL
◩	OTHER
— — — —	EDGE OF POTENTIAL VINEYARD AVENUE
—— ——	EDGE OF POTENTIAL VINEYARD BLOCK

70% SUMMARY TABLE

2018 BASELINE CONDITIONS*	
CONIFEROUS FOREST CANOPY	9.8± ACRES
OAK WOODLAND CANOPY	12.8± ACRES
TOTAL VEGETATION CANOPY COVER (i.e.TREES)	**22.6± ACRES**
AGRICULTURAL (EXISTING VINEYARD BLOCK A)	1.0± ACRES
OTHER (RUDERAL)	4.1± ACRES
TOTAL VEGETATION UNDERSTORY (i.e. NO CANOPY: SHRUB, BRUSH, AND GRASS)	**5.1± ACRES**
TOTAL (CANOPY + UNDERSTORY = PARCEL SIZE)	**27.7± ACRES**
PROPOSED CONDITIONS	
CANOPY	
TO BE REMOVED	5.4± ACRES
TO BE RETAINED	17.2± ACRES
REQUIRED MINIMUM MITIGATION AT 3:1 RATIO	16.2± ACRES
TOTAL % VEGETATION CANOPY COVER RETAINED	**77.9%**

* FOR AREAS WITHIN THE BURN AREA OF THE 2020 GLASS FIRE, OUTSIDE OF MUNICIPAL WATERSHEDS, AND WITHIN THE AGRICULTURAL WATERSHED (AW) ZONING DISTRICT, A MINIMUM OF 70 PERCENT VEGETATION CANOPY COVER AS CONFIGURED ON THE PARCEL(S) EXISTING ON JUNE 19, 2018 SHALL BE MAINTAINED AS PART OF ANY USE INVOLVING EARTH DISTURBING ACTIVITY. REFER TO THE NAPA COUNTY WATER QUALITY AND TREE PROTECTION ORDINANCE.

NOTES:

1. THE 2018 AERIAL PHOTOGRAPH USED AS A BASE FOR THIS PLAN WAS TAKEN FROM NAPA COUNTY PROVIDED IMAGERY. ALL PROPERTY LINES, BUILDINGS, UTILITIES, WASTEWATER SYSTEM LOCATIONS, DIMENSIONS, AND DESCRIPTIONS SHOWN HEREON ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD.
2. REFER TO THE BIOLOGICAL RESOURCE RECONNAISSANCE SURVEY PREPARED BY FOREST ECOSYSTEM MANAGEMENT AND SALIX NATURAL RESOURCE MANAGEMENT FOR ADDITIONAL BIOLOGICAL ASSESSMENT.

NO.	DATE	DESCRIPTION	BY
2	03-31-2023	RE-EVALUATE VEGETATIVE CANOPY COVER	KNK
1	01-25-2023	UPDATED IMAGERY TO 2018 PER NC CODE 8.80.130	KNK

REGISTERED PROFESSIONAL ENGINEER
RICHARD PAXTON
No. 84634
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF

Richard Paxton
RICHARD PAXTON 03-31-2023

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DES:	RP
DRWN:	KNK
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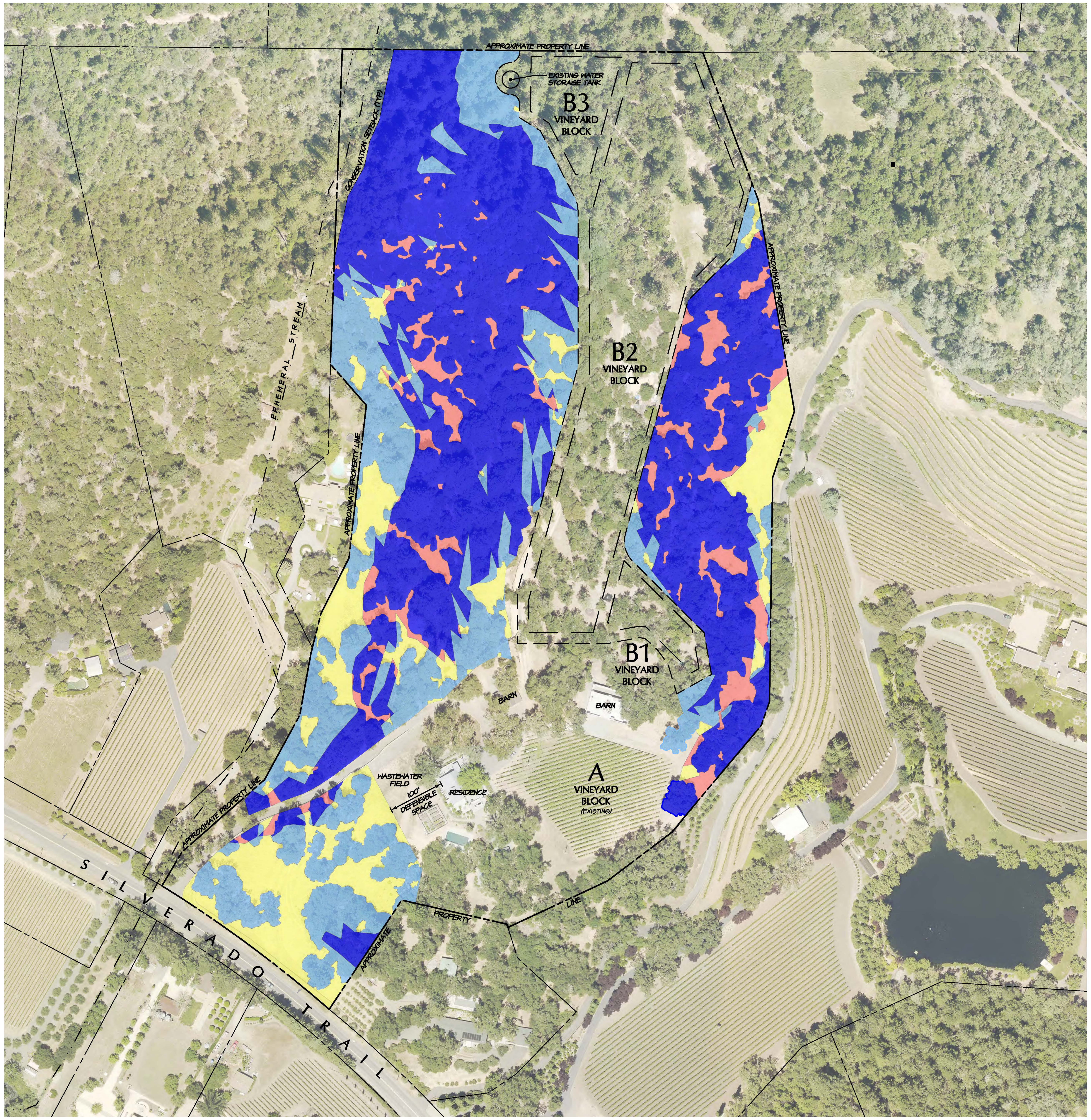
MILLER VINEYARD
70% VEGETATION RETENTION EXHIBIT
NAPA COUNTY CALIFORNIA

DATE: MAY 2022
JOB NO: 20-10
SHEET NO: EC7
OF 9 2

3/31/2023 - 1:02 PM, kristenk, S:\LAND PROJECTS\2018-2022\2010\2020 ECP TRK 1\ACAD\PLANS\2010-ECP TRK1.DWG, EC7-AWTO, ARCH FULL BLEED D (36.00 X 24.00 INCHES), 1" = 1', PLOTTED @ BARTELT ENGINEERING, 707-258-1301


APPROXIMATE PROPERTY LINE
EXISTING WATER STORAGE TANK
B3
VINEYARD BLOCK
CONSERVATION SETBACK (TYP)
EPHEMERAL STREAM
APPROXIMATE PROPERTY LINE
B2
VINEYARD BLOCK
APPROXIMATE PROPERTY LINE
B1
VINEYARD BLOCK
BARN
BARN
A
VINEYARD BLOCK
(EXISTING)
WASTEWATER FIELD
100' DEFENSIBLE SPACE
RESIDENCE
APPROXIMATE PROPERTY LINE
SILVERADO TRAIL
APPROXIMATE PROPERTY LINE

SCALE: 1" = 100'

CANOPY MITIGATION AREA EXHIBIT

SCALE: 1" = 100'

LEGEND:

🟦	PRESERVATION AREA ON <30% SLOPES (178,159± SQFT, 4.1± AC) *
🟦	PRESERVATION AREA ON 30% - 50% SLOPES (378,998± SQFT, 8.7± AC)
🟨	REPLACEMENT AREA ON <30% SLOPES (95,072± SQFT, 2.2± AC) *
🟥	REPLACEMENT AREA ON 30% - 50% SLOPES (51,338± SQFT, 1.2± AC)
— — — —	EDGE OF POTENTIAL VINEYARD AVENUE
—— ——	EDGE OF POTENTIAL VINEYARD BLOCK

* THIS PLAN PROPOSES TO CONVERT 5.4 ACRES OF MIXED CANOPY COVER TO VINEYARD. THE AREAS IDENTIFIED AS PRESERVATION AREA AND REPLACEMENT AREA ON LESS THAN 30 PERCENT SLOPES IN THIS EXHIBIT WILL BE USED TO MEET THE 1:1 GREENHOUSE GASES MITIGATION REQUIREMENT PER NAPA COUNTY.

NO.	DATE	DESCRIPTION	BY
2	03-31-2023	NEW EXHIBIT	KNK

REGISTERED PROFESSIONAL ENGINEER
RICHARD PAXTON
No. 84634
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF

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RICHARD PAXTON 03-31-2023

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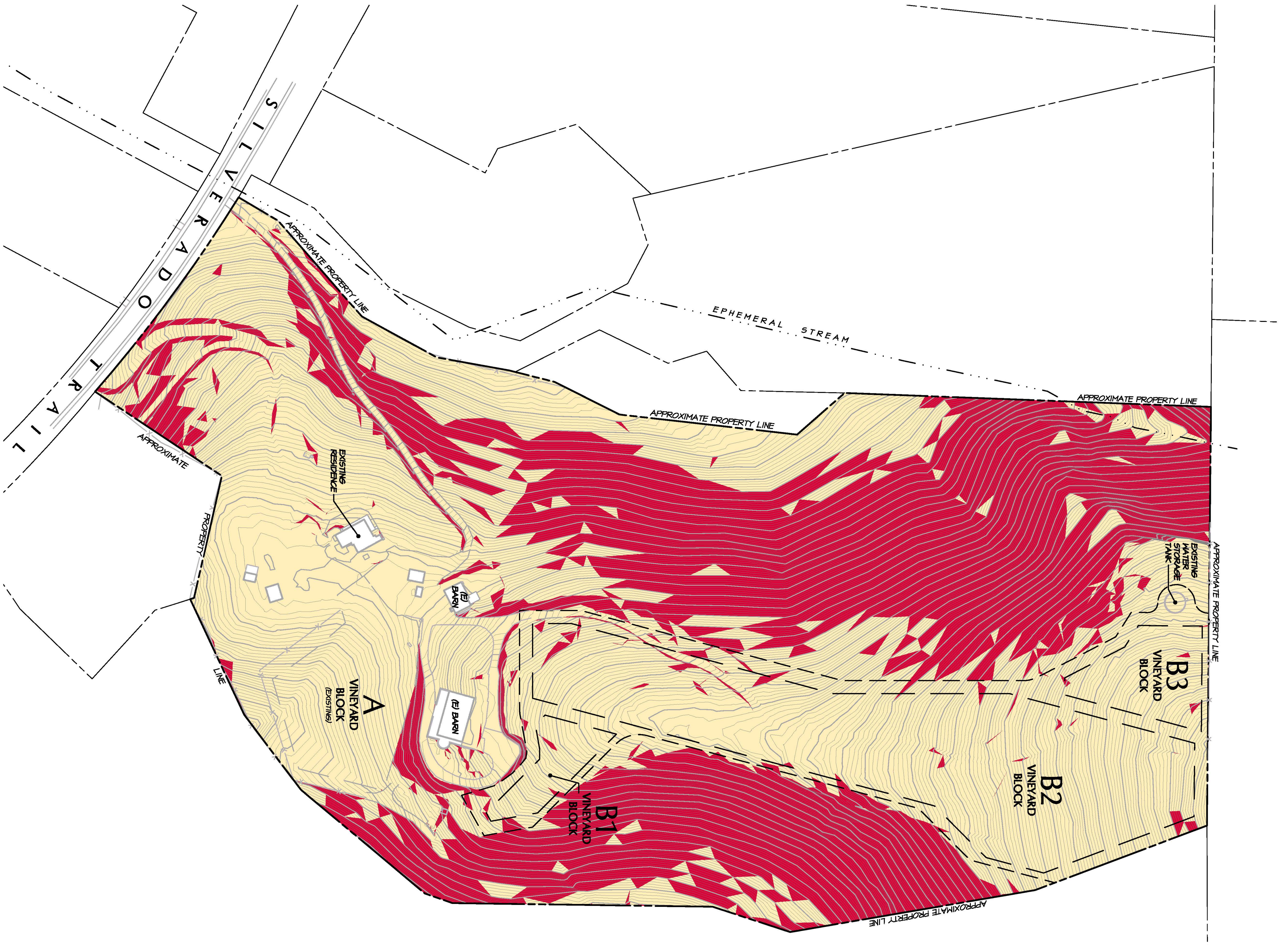
MILLER VINEYARD
CANOPY MITIGATION AREA EXHIBIT
NAPA COUNTY CALIFORNIA

DATE: MAY 2022
JOB NO: 20-10
SHEET NO: EC8
OF 9 2

3/31/2023 - 1:01 PM, kristenk, S:\LAND PROJECTS\2018-2022\2010\2020 ECP TRK \ACAD\PLANS\2010-ECP TRK1.DWG, EC8-RPLC-PRSV, ARCH FULL BLEED D (36.00 X 24.00 INCHES), 1" = 1', PLOTTED @ BARTELT ENGINEERING, 707-258-1301

WAA SLOPE ANALYSIS EXHIBIT

SCALE: 1" = 100'


SILVERADO TRAIL
APPROXIMATE PROPERTY LINE
EPHEMERAL STREAM
APPROXIMATE PROPERTY LINE
APPROXIMATE PROPERTY LINE
APPROXIMATE PROPERTY LINE
APPROXIMATE PROPERTY LINE
EXISTING RESIDENCE
(E) BARN
(E) BARN
A VINEYARD BLOCK (EXISTING)
B1 VINEYARD BLOCK
B2 VINEYARD BLOCK
B3 VINEYARD BLOCK
EXISTING WATER STORAGE TANK

SCALE: 1" = 100'

SLOPE ANALYSIS LEGEND:

	SLOPE (PERCENT)	APPROXIMATE AREA APN 021-030-006
▨	0% TO 29.9% SLOPES	16.51± ACRES
🟥	30% AND ABOVE SLOPES	11.25± ACRES
	PARCEL SIZE:	27.76± ACRES

NO.	DATE	DESCRIPTION	BY
2	03-31-2023	SHEET NUMBER CHANGE	KNK
1	01-25-2023	NO CHANGE TO THIS SHEET	KNK

No. 84634

PREPARED UNDER THE DIRECTION OF

Richard Paxton

RICHARD PAXTON 03-31-2023

SHEET NO: EC9 OF 9 2

JOB NO: 20-10

DATE: MAY 2022

MILLER VINEYARD
WAA SLOPE ANALYSIS EXHIBIT
NAPA COUNTY CALIFORNIA

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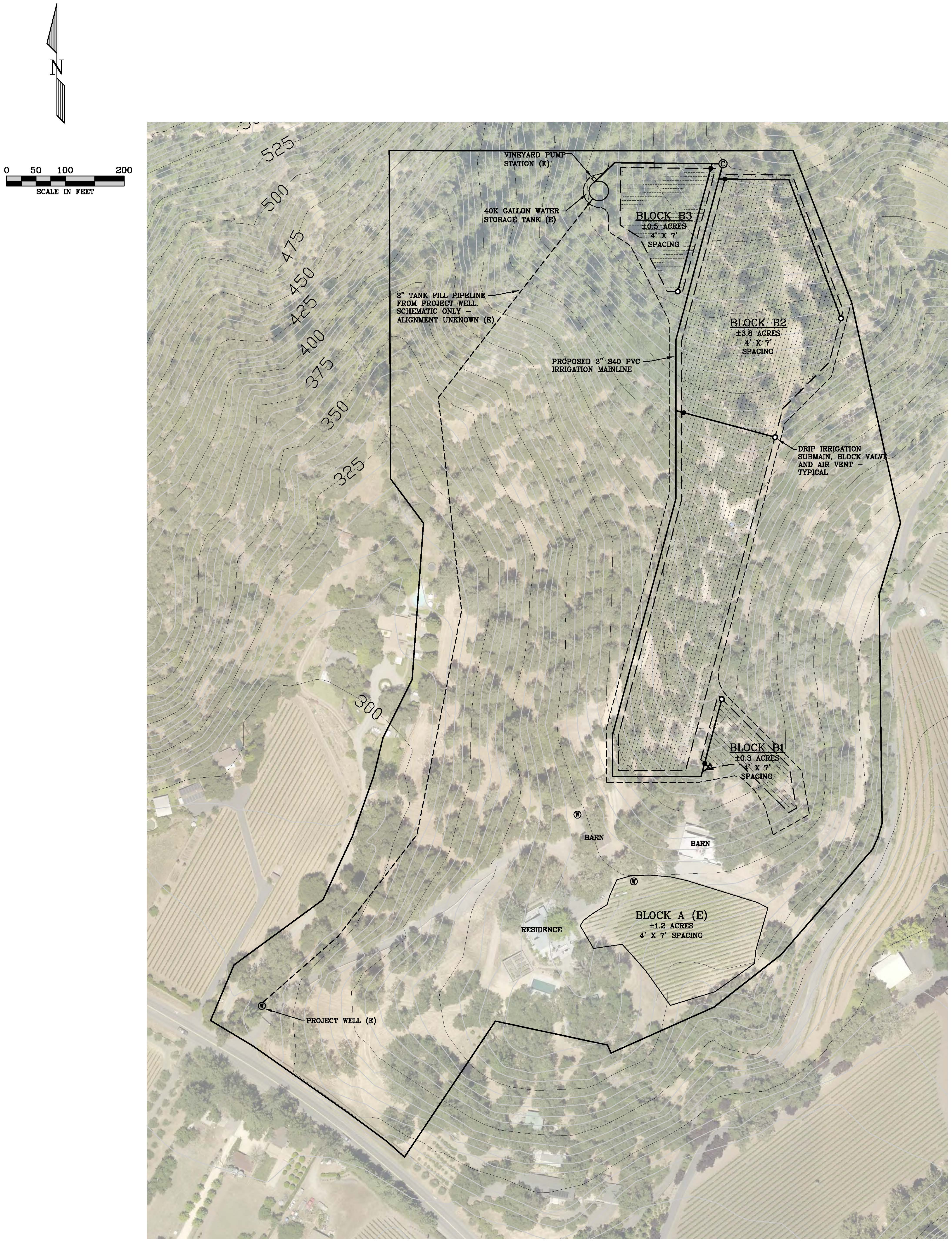
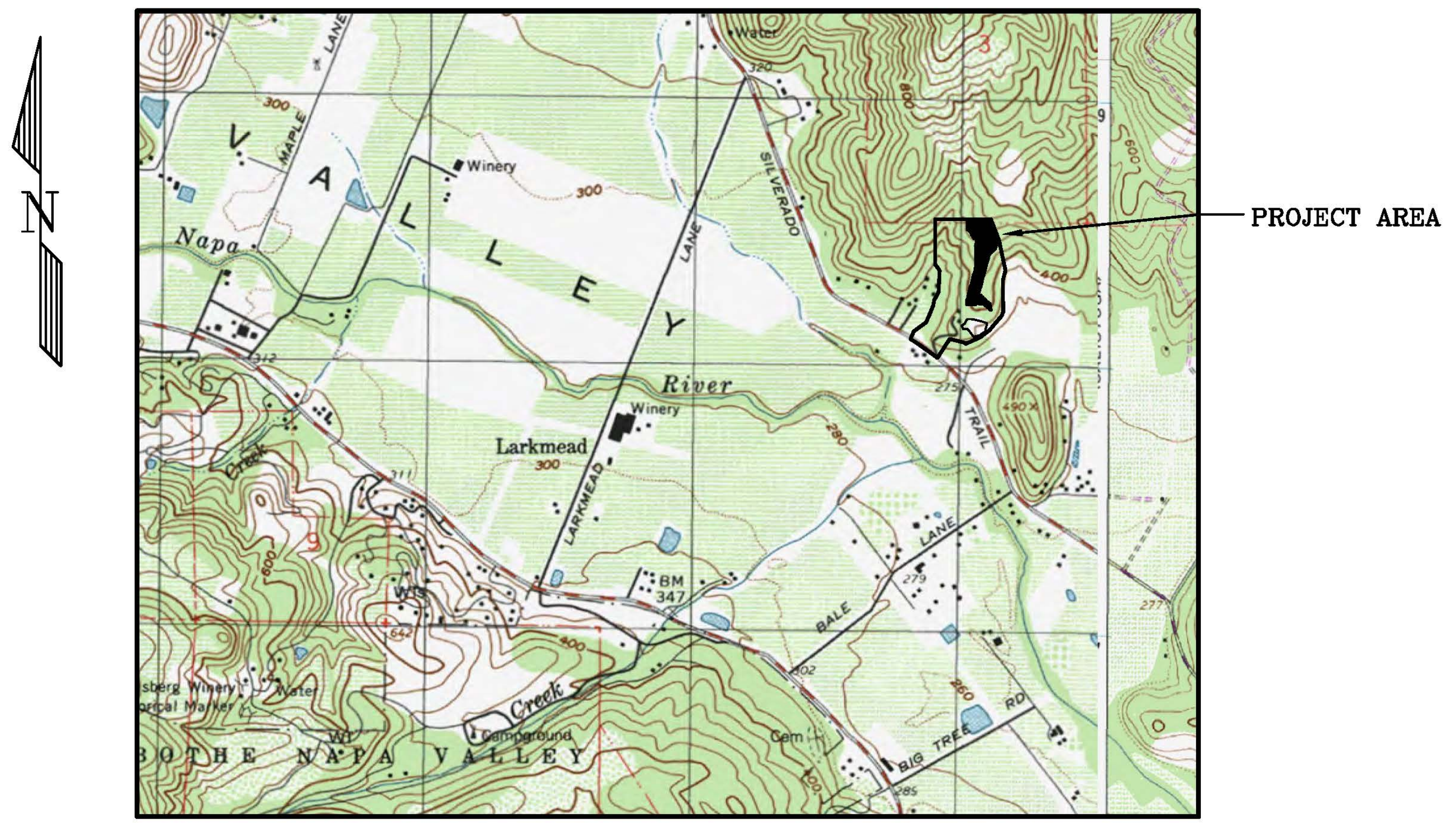

N
0 50 100 200
SCALE IN FEET
525
500
475
450
425
400
375
350
325
300
VINEYARD PUMP STATION (E)
40K GALLON WATER STORAGE TANK (E)
BLOCK B3
±0.5 ACRES
4' X 7' SPACING
2" TANK FILL PIPELINE FROM PROJECT WELL. SCHEMATIC ONLY - ALIGNMENT UNKNOWN (E)
BLOCK B2
±3.8 ACRES
4' X 7' SPACING
PROPOSED 3" S40 PVC IRRIGATION MAINLINE
DRIP IRRIGATION SUBMAIN, BLOCK VALVE AND AIR VENT - TYPICAL
BLOCK B1
±0.3 ACRES
4' X 7' SPACING
BARN
BARN
BLOCK A (E)
±1.2 ACRES
4' X 7' SPACING
RESIDENCE
PROJECT WELL (E)



VICINITY MAP

(1"=±2000')

LEGEND

—+—	PROPOSED IRRIGATION PIPELINE WITH REDUCER BUSHING
- - - -	EXISTING PIPELINE AS NOTED
──►	DRIP TUBING & DIRECTION OF FLOW
●	BLOCK VALVE ASSEMBLY
△	PRESSURE RELIEF / FLUSH ASSEMBLY
○	AIR VENT / FLUSH ASSEMBLY
©	CONTINUOUS ACTING AIR VENT
CL	CLASS
FHT	FEMALE HOSE THREAD
FPT	FEMALE PIPE THREAD
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
MHT	MALE HOSE THREAD
MPT	MALE PIPE THREAD
PSI	POUNDS PER SQUARE INCH
PRAV	PRESSURE RELIEF / AIR VENT ASSEMBLY
S	SLIP

BRENT A. EDWARDS
No. C 051461
EXPIRES 6-30-24
Civil

SHEET 1

MILLER VINEYARD
3906 SILVERADO TRAIL
CALISTOGA, CALIFORNIA
APN 021-030-006

DRIP IRRIGATION SYSTEM
PRELIMINARY PIPE LAYOUT

DWG. NUMBER: SFCMLR-I
DATE: 09-30-22
SCALE: 1"=100'

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