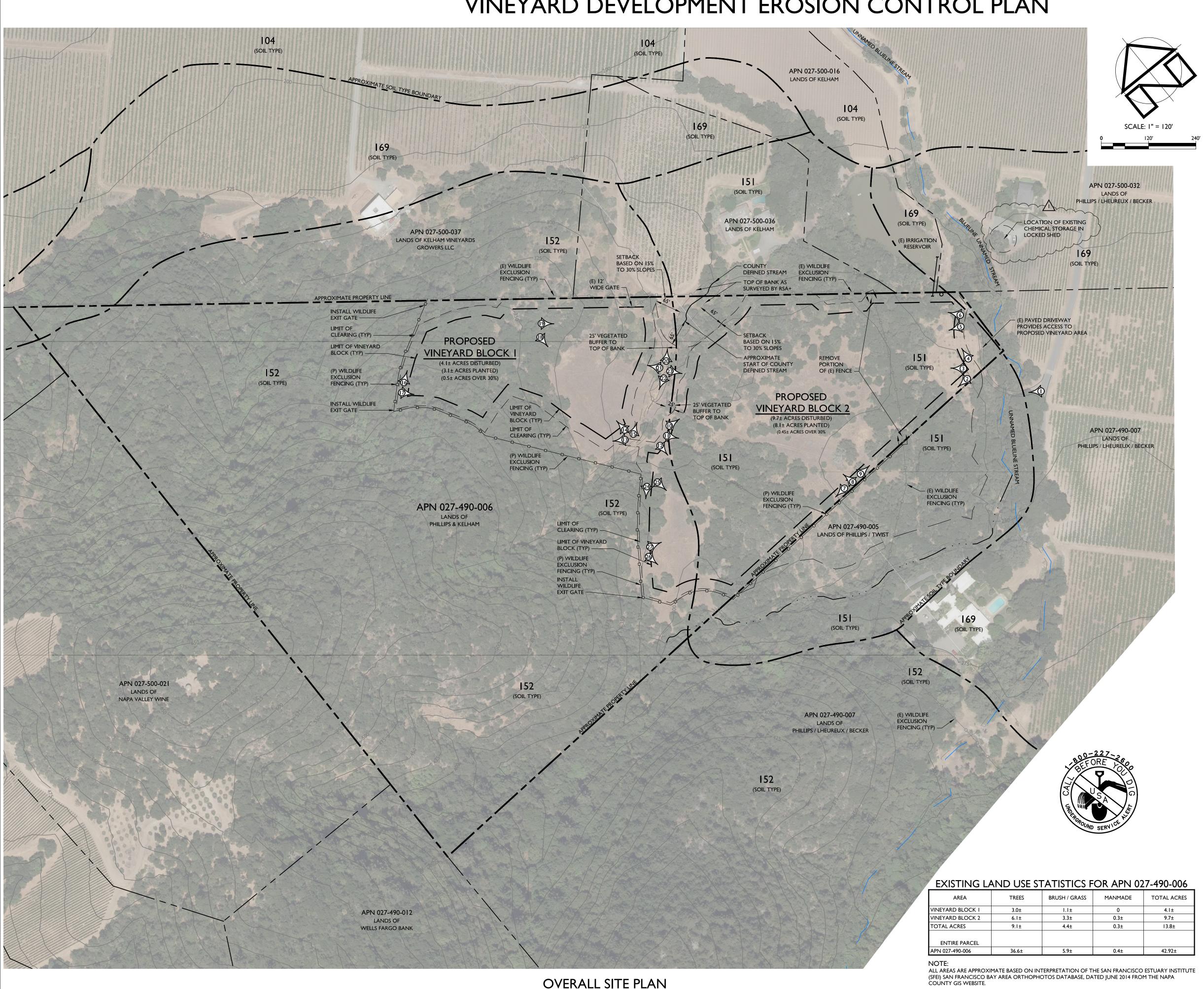
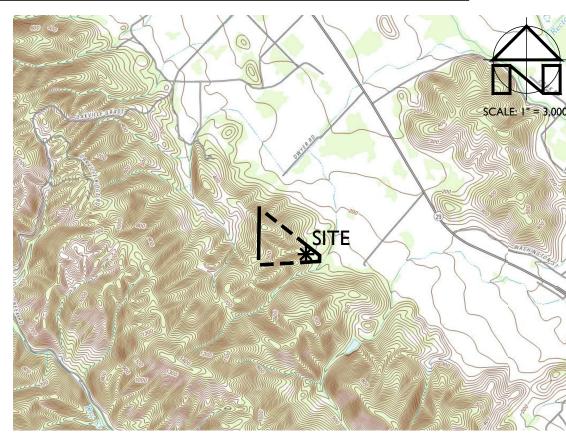
# TRUST VINEYARD PARTNERS

## VINEYARD DEVELOPMENT EROSION CONTROL PLAN





### **LOCATION MAP**

SCALE: I" = 3,000'

### PROJECT INFORMATION:

PROPERTY OWNER & APPLICANT: TRUST VINEYARD PARTNERS

CARE OF:

**BRUCE PHILLIPS & BILL KELHAM** 

POST OFFICE BOX 2066 YOUNTVILLE, CA 94599

SITE ADDRESS:

ST. HELENA HIGHWAY

NAPA, CA 94558 **ASSESSOR'S PARCEL NUMBER:** 

027-490-006

PARCEL SIZE:

42.92 ± ACRES

PROJECT SIZE:

14 ± ACRES TOTAL 11.2 ± ACRES PLANTED

AGRICULTURAL PRESERVE (AP) & AGRICULTURAL WATERSHED (AW)

#### **SHEET INDEX:**

OVERALL SITE PLAN

NOTES & ABBREVIATIONS

EROSION CONTROL PLAN

**DETAIL SHEET** 

#### FLOOD HAZARD NOTE:

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) MAP NUMBER 06055C0395E, EFFECTIVE SEPTEMBER 26, 2008, THE PROJECT SITE IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA.

### **SOIL TYPE LEGEND**

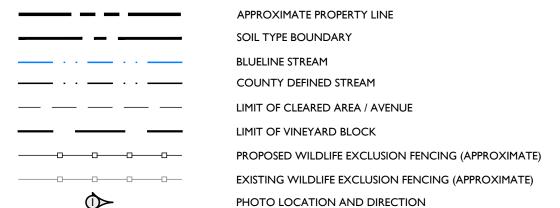
BALE CLAY LOAM, 0 TO 2 PERCENT SLOPES

HAMBRIGHT ROCK OUTCROP COMPLEX, 2 TO 30 PERCENT SLOPES

HAMBRIGHT ROCK OUTCROP COMPLEX, 30 TO 75 PERCENT SLOPES PERKINS GRAVELLY LOAM, 5 TO 9 PERCENT SLOPES

SOIL TYPE BOUNDARIES SHOWN ON THIS MAP ARE BASED ON THE NAPA COUNTY GEOGRAPHIC INFORMATION SYSTEM DATA AND SHOULD BE CONSIDERED APPROXIMATE.

## **LEGEND:**



### **IRRIGATION RESERVOIR NOTES:**

- IRRIGATION WATER FOR PROPOSED VINEYARD BOCKS IS TO BE SUPPLIED BY EXISTING PUMP STATION IN EXISTING IRRIGATION RESERVOIR ON ADJACENT PROPERTY. WATER FOR THE PROPOSED VINEYARD BLOCKS WILL BE PUMPED INTO THE EXISTING IRRIGATION RESERVOIR FROM OFFSITE WELLS AND FIELD DRAINAGE SYSTEMS. SEE WATER AVAILABILITY ANALYSIS FOR ADDITIONAL INFORMATION.
- IRRIGATION RESERVOIR SHALL BE MODIFIED SUCH THAT WATER LEVEL AUTOMATICALLY DRAWN DOWN 6 INCHES BELOW THE INVERT OF THE OUTLET PIPE AFTER EACH STORM. THIS WILL CREATE STORAGE VOLUME TO CONTROL RUNOFF FROM THE PROPOSED VINEYARD DEVELOPMENT. REFER TO THE HYDROLOGIC ANALYSIS FOR ADDITIONAL INFORMATION.

#### SITE PHOTOGRAPH NOTES:

REPRESENTS APPROXIMATE LOCATION AND DIRECTION OF PHOTOGRAPH TAKEN BY APPLIED CIVIL ENGINEERING INCORPORATED. PHOTOGRAPHS WERE TAKEN ON MARCH 18, 2019. REFER TO THE PHOTOGRAPHIC DOCUMENTATION OF EXISTING SITE CONDITIONS FOR THE TRUST VINEYARD PARTNERS VINEYARD DEVELOPMENT EROSION CONTROL PLAN FOR PHOTOGRAPHS.

PREPARED UNDER THE

DIRECTION OF: NO. 67435 Exp. 12/31/2020 11/4/2019

DRAWN BY: BT DRAFTING

CHECKED BY:

DATE: APRIL 3, 2019 REVISIONS:

11/4/2019  $\angle$   $^{\dagger}$  response to comment

JOB NUMBER: 18-110

18-110ECP-OSP 120.DWG ORIGINAL SIZE:

24" X 36" SHEET NUMBER:

OF

**EXHIBIT A-1** 

THE OWNER/APPLICANT SHALL INCLUDE AS PART OF THIS EROSION CONTROL PLAN

THE FOLLOWING MEASURES TO MINIMIZE IMPACTS ASSOCIATED WITH THE LOSS

AND DISTURBANCE OF PASSERINE BIRD AND RAPTOR SPECIES CONSISTENT WITH

AND PURSUANT TO CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE (DFW) CODE

A. FOR EARTH-DISTURBING ACTIVITIES OCCURRING BETWEEN FEBRUARY I

AND AUGUST 31, (WHICH COINCIDES WITH THE GRADING SEASON OF

APRIL I THROUGH OCTOBER 15 – NCC SECTION 18.108.070.L, AND BIRD

PASSERINE BIRD COURTSHIP ACTIVITIES AND/OR THEIR NESTS WITHIN A

VEGETATION REMOVAL AND GROUND DISTURBING ACTIVITIES ARE TO

DAYS DURING THE 14 DAYS PRIOR TO DISTURBANCE). A COPY OF THE

SURVEY WILL BE PROVIDED TO THE COUNTY CONSERVATION DIVISION

DURING PRECONSTRUCTION SURVEYS, THE PROPERTY OWNER SHALL

GENERALLY A MINIMUM 150-FOOT NO-DISTURBANCE BUFFER WILL BE

CREATED AROUND ALL ACTIVE PASSERINE BIRD NESTS AND A MINIMUM

BY A QUALIFIED BIOLOGIST THAT ALL YOUNG HAVE FLEDGED, ALL NEST

300-FOOT BUFFER SHALL BE CREATED AROUND ALL ACTIVE RAPTOR NESTS

DURING THE BREEDING AND NESTING SEASON OR UNTIL IT IS DETERMINED

PROTECTION MEASURES SHALL APPLY TO OFF-SITE ACTIVE NESTS THAT ARE

LOCATED WITHIN 300 FEET OF PROJECT ACTIVITIES. THESE BUFFER ZONES

MAY BE MODIFIED IN COORDINATION WITH DFW BASED ON EXISTING

CONDITIONS AT THE PROJECT SITE. BUFFER ZONES SHALL BE FENCED

WITH TEMPORARY CONSTRUCTION FENCING AND REMAIN IN PLACE

PRE-CONSTRUCTION SURVEY AND CONSULTATION WITH DFW WILL BE

UNTIL THE END OF THE BREADING SEASON OR UNTIL YOUNG HAVE

C. IF A 15 DAY OR GREATER LAPSE OF PROJECT-RELATED WORK OCCURS

DURING THE BREEDING SEASON, ANOTHER BIRD AND RAPTOR

2. THE OWNER/APPLICANT SHALL INCLUDE AS PART OF THIS EROSION CONTROL PLAN

B. IF THE HABITAT ASSESSMENT REVEALS SUITABLE SPECIAL-STATUS BAT

HABITAT AND/OR HABITAT TREES, THE QUALIFIED BIOLOGIST SHALL

AVOIDANCE PLAN SHALL IDENTIFY AND EVALUATE THE TYPE OF HABITAT

PRESENT AT THE PROJECT SITE AND DETAIL HABITAT AND/OR HABITAT

TREE REMOVAL. BAT HABITAT/TREE REMOVAL SHALL OCCUR IN TWO

QUALIFIED BIOLOGIST: DAY ONE IN THE AFTERNOON LIMBS AND

PHASES CONDUCTED OVER TWO DAYS UNDER THE SUPERVISION OF A

BRANCHES OF HABITAT TREES WITHOUT CAVITIES, CREVICES AND DEEP

BARK FISSURES WOULD BE REMOVED BY CHAINSAW (LIMBS WITH CAVITIES,

MEASURES REQUIRED BY DFW RESULT IN A REDUCTION OR MODIFICATION

OF VINEYARD BLOCK BOUNDARIES, THE EROSION CONTROL PLAN SHALL

CREVICES AND DEEP BARK FISSURES WOULD BE AVOIDED); DAY TWO THE

ENTIRE TREE CAN BE REMOVED. IN THE EVENT THE BAT AVOIDANCE

BE REVISED BY THE APPLICANT/ENGINEER AND SUBMITTED TO THE

SUBMIT AN AVOIDANCE PLAN TO THE COUNTY AND CALIFORNIA

DEPARTMENT OF FISH AND WILDLIFE (DFW) FOR APPROVAL. THE

THE FOLLOWING MEASURES TO REDUCE IMPACTS TO SPECIAL-STATUS BAT SPECIES:

A. A QUALIFIED BIOLOGIST SHALL CONDUCT A HABITAT ASSESSMENT FOR

POTENTIAL SUITABLE SPECIAL-STATUS BAT HABITAT/TREES WITHIN 14 DAYS

REQUIRED BEFORE PROJECT WORK CAN BE REINITIATED

NEST-PROTECTION BUFFERS AS APPROPRIATE BASED ON SPECIES FOUND

AND THE DFW PRIOR TO COMMENCEMENT OF WORK.

B. IN THE EVENT THAT NESTING RAPTORS AND/OR BIRDS ARE FOUND

CONSULT WITH DFW AND OBTAIN APPROVAL FOR SPECIFIC

PRIOR TO COMMENCEMENT OF GROUND-BREAKING ACTIVITIES:

COMMENCE (SURVEYS SHOULD BE CONDUCTED A MINIMUM OF 3 SEPARATE

300-FEET RADIUS OF EARTHMOVING ACTIVITIES. THE PRECONSTRUCTION

BREEDING AND NESTING SEASONS), A QUALIFIED WILDLIFE BIOLOGIST

SHALL CONDUCT PRECONSTRUCTION SURVEYS FOR RAPTOR AND

SURVEY SHALL BE CONDUCTED NO MORE THAN 14 DAYS PRIOR TO

BIOLOGY:

SECTIONS 3503 AND 3503.5:

FLEDGED.

COUNTY.

OF PROJECT INITIATION.

PROCESS WASTE

STORM DRAIN

SQUARE FEET

SANITARY SEWER

TOP FACE OF CURB

TOP OF WALL

WATER METER

WATER VALVE

**TRANSFORMER** 

TYPICAL

SHOULDER

PROCESS WASTE CLEANOUT

STORM DRAIN CLEANOUT

SEE ELECTRICAL DRAWINGS

SEE LANDSCAPE DRAWINGS

SEE PLUMBING DRAWINGS

SEE MECHANICAL DRAWINGS

SEE STRUCTURAL DRAWINGS

SANITARY SEWER CLEANOUT

SANITARY SEWER MANHOLE

STORM DRAIN MANHOLE

RECIRCULATING SPLITTER VALV

SEE ARCHITECTURAL DRAWING

**PWCO** 

RSV

SAD

SDCO

SDMH

SFD

SLD

SMD

SPD

SSD

SSCO

SSMH

TW

TYP

WM

WV

**XFMR** 

ABBREVIATIONS:

DCV

EOC

**AGGREGATE BASE** 

CONTROL POINT

DOUBLE CHECK VALVE

**EDGE OF PAVEMENT** 

EDGE OF CONCRETE

FIRE DEPARTMENT CONNECTION SF

AREA DRAIN

**ANGLE POINT** 

BOTTOM

CONFORM

DROP INLET

**EXISTING** 

**END CURVE** 

**ELEVATION** 

FINISH FLOOR

FINISH GRADE

FIRE HYDRANT

**FINISH SURFACE** 

**GRADE BREAK** 

GAS METER

**HIGH POINT** 

**IRRIGATION** 

LINEAR FEET

**LOW POINT** 

ON CENTER

**IRON PIPE SIZE** 

INVERT

FIRE SPRINKLER RISER

FLOW LINE

**FUTURE** 

DOWN SPOUT

**ASPHALT CONCRETE** 

DIRECTION OF:

NO. 67435 Exp. 12/31/2020 11/4/2019

**DRAWN BY:** BT DRAFTING

DATE:

APRIL 3, 2019 REVISIONS: 11/4/2019  $\overline{\ '\ '}$  response to comment

JOB NUMBER: 18-110

**ORIGINAL SIZE:** 24" X 36"

OF

THESE DRAWINGS WERE DEVELOPED EXCLUSIVELY FOR THIS PROJECT AND ARE NOT

- TO BE REPRODUCED OR USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF APPLIED CIVIL ENGINEERING INCORPORATED. ALL MATERIALS AND WORKMANSHIP FOR THE WORK DESCRIBED ON THESE PLANS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING STANDARDS AS
  - A. CALIFORNIA BUILDING CODE (2016)

ADOPTED AND AMENDED BY NAPA COUNTY:

- B. CALIFORNIA ELECTRIC CODE (2016)
- C. CALIFORNIA PLUMBING CODE (2016)
- D. CALIFORNIA MECHANICAL CODE (2016)
- E. CALIFORNIA FIRE CODE (2016)
- F. CALIFORNIA DEPARTMENT OF TRANSPORTATION (2018)
- G. NAPA COUNTY CODE (CURRENT)

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR BEING FAMILIAR WITH ALL STANDARDS, CODES AND REGULATIONS APPLICABLE TO THIS PROJECT.

- CONTRACTOR SHALL BE APPROPRIATELY LICENSED WITH THE STATE OF CALIFORNIA TO PERFORM THE WORK SHOWN ON THESE PLANS.
- CONTRACTOR SHALL SUPPLY ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO CONSTRUCT THE IMPROVEMENTS ILLUSTRATED ON THESE PLANS.
- CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL MATERIALS AND PRODUCTS TO BE USED FOR THE SITE IMPROVEMENTS TO APPLIED CIVIL ENGINEERING INCORPORATED FOR REVIEW AND APPROVAL.
- 6. THE IMPROVEMENTS SHOWN ON THESE PLANS REQUIRE INSPECTION BY THE NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING ALL INSPECTIONS.
- CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH APPLIED CIVIL ENGINEERING INCORPORATED AND NAPA COUNTY AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO REVIEW THE PROJECT PLANS AND SPECIFICATIONS AND NAPA COUNTY REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR SECURING ALL CONSTRUCTION RELATED PERMITS FROM THE GOVERNING AGENCIES AND MAINTAINING A COPY OF THE PERMITS AND THE APPROVED PLANS ON THE JOB SITE AT ALL TIMES.
- THE PROPERTY OWNER AND CONTRACTOR ARE RESPONSIBLE FOR OBTAINING ALI APPROPRIATE PERMITS FOR WORK WITHIN ANY RIPARIAN AREA PRIOR TO COMMENCING WORK IN THAT AREA.
- 10. CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE CONDITIONS AND THE SAFETY OF PROPERTY AND PEOPLE ON THE JOB SITE AT ALL TIMES. CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A SAFE CONDITION, IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS, AT ALL TIMES, INCLUDING OUTSIDE OF NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPT
- LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER. CONTRACTOR SHALL PROVIDE AND MAINTAIN BARRICADES TO PROVIDE FOR THE SAFETY OF THE GENERAL PUBLIC TO THE SATISFACTION OF NAPA COUNTY AND
- 12. THESE PLANS ARE INTENDED TO PROVIDE HORIZONTAL AND VERTICAL CONTROL FOR THE PROPOSED SITE IMPROVEMENTS SHOWN HEREON.
- 13. ALL DIMENSIONS SHOWN ON THESE PLANS SHOW MEASUREMENTS IN A HORIZONTAL PLANE UNLESS OTHERWISE SPECIFIED.
- ALL WRITTEN DIMENSIONS SUPERCEDE ANY SCALED DIMENSIONS. IF AN APPARENT DISCREPANCY IS IDENTIFIED CONTACT APPLIED CIVIL ENGINEERING INCORPORATED IMMEDIATELY FOR A WRITTEN CLARIFICATION.
- 15. IF ANY CONTRACTOR, SUBCONTRACTOR, OR SURVEYOR IDENTIFIES ANY OMISSIONS, DEFICIENCIES, CONFLICTS OR ERRORS IN THESE PLANS AND SPECIFICATIONS OR IF THERE IS ANY DOUBT AS TO THEIR MEANING OR INTENT, THEY SHALL CONTACT APPLIED CIVIL ENGINEERING INCORPORATED FOR A WRITTEN ADDENDUM OR CLARIFICATION. CONTRACTOR IS NOT ELIGIBLE FOR ADDITIONAL COMPENSATION IF THEY FAIL TO DO SO BEFORE PROVIDING A PROPOSAL.
- 16. CONTRACTOR IS TO PROTECT ALL EXISTING SITE IMPROVEMENTS, UTILITIES, BUILDINGS AND NATURAL FEATURES FROM DAMAGE THROUGHOUT THE DURATION OF CONSTRUCTION. ANY DAMAGE CAUSED BY CONTRACTOR SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
- 17. IN THE EVENT THAT ARCHEOLOGICAL ARTIFACTS OR HUMAN REMAINS ARE DISCOVERED DURING CONSTRUCTION, WORK SHALL CEASE IN A 50-FOOT RADIUS SURROUNDING THE AREA OF DISCOVERY. THE PERMITTEE SHALL CONTACT NAPA COUNTY PLANNING BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT AT (707) 253-4417 FOR FURTHER GUIDANCE, WHICH WILL LIKELY INCLUDE THE REQUIREMENT FOR THE PERMITTEE TO HIRE A QUALIFIED PROFESSIONAL TO ANALYZE THE ARTIFACTS ENCOUNTERED AND TO DETERMINE IF ADDITIONAL MEASURES ARE REQUIRED.

IF HUMAN REMAINS ARE ENCOUNTERED DURING THE DEVELOPMENT, ALL WORK IN THE VICINITY MUST BE, BY LAW, HALTED, AND THE NAPA COUNTY CORONER INFORMED, SO THAT THE CORONER CAN DETERMINE IF AN INVESTIGATION OF THE CAUSE OF DEATH IS REQUIRED, AND IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN. IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN, THE NEAREST TRIBAL RELATIVES AS DETERMINED BY THE STATE NATIVE AMERICAN HERITAGE COMMISSION SHALL BE CONTACTED BY THE PERMITTEE TO OBTAIN RECOMMENDATIONS FOR TREATING OR REMOVAL OF SUCH REMAINS, INCLUDING GRAVE GOODS, WITH APPROPRIATE DIGNITY, AS REQUIRED UNDER PUBLIC **RESOURCES CODE SECTION 5097.98.** 

### **SURVEY NOTES:**

- FADED BACKGROUND REPRESENTS EXISTING TOPOGRAPHIC FEATURES. TOPOGRAPHIC INFORMATION WAS TAKEN FROM THE NAPA COUNTY GEOGRAPHIC INFORMATION SYSTEM DATABASE. APPLIED CIVIL ENGINEERING INCORPORATED ASSUMES NO LIABILITY REGARDING THE ACCURACY OR COMPLETENESS OF THE
- TOPOGRAPHIC INFORMATION. 2. AERIAL PHOTOGRAPHS WERE OBTAINED FROM THE SAN FRANCISCO ESTUARY INSTITUTE (SFEI) SAN FRANCISCO BAY AREA ORTHOPHOTOS DATABASE, DATED JUNE 2014 AND MAY NOT REPRESENT CURRENT CONDITIONS.
- 3. CONTOUR INTERVAL: FIVE (5) FEET, HIGHLIGHTED EVERY TWENTY FIVE (25) FEET.
- 4. BENCHMARK: NAVD 88
- 5. THE PROPERTY LINES SHOWN ON THESE PLANS DO NOT REPRESENT A BOUNDARY SURVEY. THEY ARE VERY APPROXIMATE AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.
- 6. CONTRACTOR SHALL PRESERVE ALL EXISTING MONUMENTS THROUGHOUT THE DURATION OF CONSTRUCTION OR HAVE THEM REPLACED AT THEIR OWN EXPENSE. IF MONUMENTS ARE DISTURBED THEY NEED TO BE RE-SET BY A LICENSED LAND SURVEYOR AND A CORNER RECORD MUST BE FILED.
- ALL CONSTRUCTION STAKING SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR.

**GRADING NOTES:** 

- ALL EARTHWORK IS TO CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, NAPA COUNTY CONSERVATION REGULATION AND NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT ENGINEERING DIVISION STANDARDS.
- 2. ALL CUT AND FILL SLOPES SHALL BE NO STEEPER THAN 2:1 UNLESS OTHERWISE APPROVED BY A GEOTECHNICAL ENGINEER.
- 3. ALL DEBRIS GENERATED DURING DEMOLITION, SITE STRIPPING AND GRADING ACTIVITIES IS TO BE DISPOSED OF PROPERLY OFFSITE BY THE CONTRACTOR.
- 4. CONTRACTOR IS RESPONSIBLE FOR IMPORTING AND / OR EXPORTING MATERIALS AS NECESSARY TO ACHIEVE THE FINISH GRADES ILLUSTRATED ON THESE PLANS.
- CONTRACTOR SHALL CONDUCT ALL GRADING OPERATIONS IN A MANNER THAT PREVENTS WIND BLOWN DIRT AND DUST AND RELATED DAMAGE TO
- 6. CONTRACTOR SHALL CONFORM TO EXISTING IMPROVEMENTS WITH A SMOOTH TRANSITION TO AVOID ABRUPT CHANGES IN GRADE, LOW SPOTS OR OTHER HAZARDOUS CONDITIONS.
- PROPERTY OWNER SHALL BE RESPONSIBLE FOR MAINTAINING ALL FINISH GRADED SLOPES AFTER THE COMPLETION OF CONSTRUCTION AND REPAIRING ANY EROSION

#### **EXISTING UTILITY NOTES:**

- THE EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND FOR INFORMATIONAL PURPOSES ONLY. THEY ARE BASED ON INFORMATION PROVIDED BY THE PROPERTY OWNER, THE SURVEYOR AND THE RESPECTIVE UTILITY COMPANIES. APPLIED CIVIL ENGINEERING INCORPORATED ASSUMES NO LIABILITY REGARDING THE ACCURACY OR THE COMPLETENESS OF THEIR LOCATIONS.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING UTILITY LOCATIONS PRIOR TO ORDERING MATERIALS OR BEGINNING CONSTRUCTION. IF A DISCREPANCY BETWEEN THE PLANNED AND ACTUAL HORIZONTAL OR VERTICAL LOCATION OF AN EXISTING UTILITY EXISTS, CONTACT APPLIED CIVIL ENGINEERING INCORPORATED FOR AN ALTERNATE DESIGN.
- CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY COMPANIES TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION TO MARK THE LOCATION OF EXISTING UTILITY LINES. CALL UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600.
- 4. EXISTING UTILITIES ARE TO REMAIN IN SERVICE AT ALL TIMES. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES PER THE REQUIREMENTS OF THE UTILITY OWNER.
- 5. CONTRACTOR SHALL COORDINATE ANY REQUIRED UTILITY RELOCATIONS WITH

#### THE UTILITY OWNER. **UTILITY NOTES:**

OTHERWISE NOTED.

- STORM DRAIN PIPING NOTES: ALL STORM DRAIN PIPE 8" IN DIAMETER AND SMALLER IS TO BE SDR 35 PVC UNLESS
- 2. ALL STORM DRAIN PIPE 12" IN DIAMETER AND LARGER IS TO BE ADS N-12 WITH WATER TIGHT JOINTS UNLESS OTHERWISE NOTED.
- ALL 4" DIAMETER STORM DRAIN PIPE IS TO BE INSTALLED WITH A MINIMUM SLOPE OF 1% UNLESS OTHERWISE NOTED.
- ALL 6" AND LARGER STORM DRAIN PIPE IS TO INSTALLED WITH A MINIMUM SLOPE OF 0.5% UNLESS OTHERWISE NOTED.

DOWNSPOUT LOCATIONS ARE APPROXIMATE. VERIFY LOCATION OF CONNECTION

POINTS PRIOR TO CONSTRUCTION. ALL DOWN SPOUT LEADERS ARE TO BE 4" SDR

35 PVC UNLESS OTHERWISE NOTED. ALL STORM DRAIN PIPE WITH LESS THAN ONE FOOT OF COVER (FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF CONCRETE) IS TO BE BACKFILLED WITH LEAN CONCRETE

### **EROSION CONTROL NOTES:**

- I. ALL EROSION CONTROL WORK WILL BE PERFORMED BY THE VINEYARD MANAGER IN ACCORDANCE WITH THIS APPROVED VINEYARD EROSION CONTROL PLAN.
- 2. ALL DISTURBED AREAS MUST BE WINTERIZED BY OCTOBER 15TH OF EACH YEAR
- THAT THE PROJECT IS UNDER CONSTRUCTION. 3. A REQUEST TO ALLOW GRADING TO EXTEND BEYOND OCTOBER 15TH MAY BE GRANTED BY THE NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT - CONSERVATION DIVISION IF A MAJORITY OF THE GRADING HAS BEEN COMPLETED AND THERE COULD BE A DETRIMENTAL EFFECT ON THE ENVIRONMENT IF THE REMAINING GRADING REMAINS INCOMPLETE. A REQUEST TO ALLOW GRADING TO EXTEND BEYOND OCTOBER 15TH MUST BE SUBMITTED IN WRITING TO NAPA COUNTY NO LATER THAN OCTOBER IST. GRADING BEYOND THE WINTERIZATION DEADLINE WILL NOT BE ALLOWED PRIOR TO APPROVAL BY
- NAPA COUNTY. ALL PERMANENT DRAINAGE FACILITIES AND SEDIMENT RETENTION STRUCTURES MUST BE INSTALLED BY OCTOBER 1ST.
- 5. ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (WATER BARS, SILT
- FENCE & STRAW WATTLES) MUST BE INSTALLED BY OCTOBER 15TH. 6. ALL EROSION CONTROL MEASURES MUST BE INSPECTED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE RAINY SEASON (OCTOBER 15TH THROUGH APRIL IST). INSPECTIONS MUST BE PERFORMED AT LEAST ONCE PER WEEK DURING EXTENDED DRY PERIODS, IMMEDIATELY BEFORE ANTICIPATED RAIN EVENTS, ONCE EVERY 24 HOURS DURING EXTENDED RAIN EVENTS AND IMMEDIATELY FOLLOWING EACH RAIN EVENT.
- ALL DISTURBED AREAS ARE TO BE STABILIZED BY PLANTING OF AN EROSION CONTROL COVER CROP. PRIOR TO APPLYING THE EROSION CONTROL SEED BLEND, THE SEED BED SHOULD BE PREPARED BY UNIFORMLY SCARIFYING THE GROUND SURFACE TO A DEPTH OF TWO TO FOUR INCHES AND CONDITIONING TO BREAK UP LARGE PEDS.
- THE COVER CROP SEED BLEND SHOULD BE BROADCAST OR DRILLED AFTER THE SEED BED HAS BEEN PREPARED.
- 9. A TEMPORARY TILLED COVER CROP WILL BE ESTABLISHED IN THE VINEYARD BLOCK AREAS FOR THE FIRST THREE YEARS AFTER PLANTING WHILE THE VINEYARD IS GETTING ESTABLISHED. THE TEMPORARY COVER CROP SEED MIX FOR THE VINEYARD ESTABLISHMENT SHOULD BE THE "SOIL BUILDER" AVAILABLE FROM NAPA VALLEY AG SUPPLY APPLIED AT A MINIMUM RATE OF 75 POUNDS PER ACRE:

	COMMON VETCH	10%
	CALIFORNIA RED OATS	20%
	FIELD PEAS	30%
	DELL DEANIC	40%

10. THE PERMANENT COVER CROP SEED MIX FOR ALL NO-TILL VINEYARD BLOCKS AND VINEYARD AVENUES SHOULD BE THE "VINTNER'S BLEND" AVAILABLE FROM NAPA VALLEY AG SUPPLY APPLIED AT A MINIMUM RATE OF 75 POUNDS PER ACRE-

IPPLY APPLIED AT A MINIMUM RATE OF /	POU
CREEPING RED FESCUE	40%
CHEWING FESCUE	25%
DWARF PERENNIAL RYE	25%
ROSE CLOVER	8%
NEW ZEALAND WHITE CLOVER	2%

#### EROSION CONTROL NOTES (CONTINUED):

- II. ALTERNATE SEED MIX MAY BE USED BY THE VINEYARD MANAGER PROVIDED THAT ATTENTION IS GIVEN TO CHOOSING A COVER CROP THAT IS SUITABLE FOR THE SITE SOIL AND TOPOGRAPHIC CONDITIONS. ANY ALTERNATE SEED MIX MUST BE APPROVED BY THE ENGINEER AND THE NAPA COUNTY RESOURCE CONSERVATION DISTRICT PRIOR TO USE.
- 12. ALL SEEDED AREAS ARE TO BE FERTILIZED TO PROMOTE SUCCESSFUL ESTABLISHMENT OF THE COVER CROP. THE RECOMMENDED FERTILIZER IS AMMONIUM PHOSPHATE (16-20-0) APPLIED AT A RATE OF 250 POUNDS PER ACRE.
- 13. ADDITIONAL SOIL AMENDMENTS WILL BE ADDED BASED ON FUTURE SOILS TESTING REPORTS BY OTHERS. TYPICAL AMENDMENTS INCLUDE: COMPOSTED ORGANIC MATTER, LIME AND / OR GYPSUM. THE AMENDMENTS SHOULD BE INCORPORATED DURING THE LAND PREPARATION PROCESS TO INCREASE SOIL NUTRIENT CONTENT AND AVAILABILITY, AND TO IMPROVE SOIL STRUCTURE AND WATER HOLDING CAPACITY.
- AFTER THE SEED AND FERTILIZER HAVE BEEN PLACED THE SEEDED AREA SHOULD BE RAKED, DRAGGED OR HARROWED TO ENSURE THAT SEEDS ARE PROPERLY BEDDED.
- 15. ALL DISTURBED AREAS ARE TO BE MULCHED WITH STRAW AT A RATE OF 3,000 POUNDS PER ACRE TO PROTECT THE BARE SOILS WHILE THE COVER CROP IS GETTING ESTABLISHED.
- STRAW SHOULD BE SPREAD BY HAND IN A MANNER THAT PROMOTES FORMATION OF AN INTERWOVEN MATRIX. CRIMPING STRAW INTO THE SOIL IS HIGHLY RECOMMENDED ON ESPECIALLY WINDY SITES AND IS MANDATORY ON SITES
- WHERE STRAW IS MECHANICALLY CHOPPED AND BLOWN INTO PLACE. 17. ALL SOIL CUT AND FILL SLOPES THAT ARE STEEPER THAN 4:1 (HORIZONTAL TO VERTICAL) MUST BE COVERED WITH NORTH AMERICAN GREEN C125BN EROSION CONTROL BLANKET AFTER THE EROSION CONTROL SEED AND FERTILIZER HAVE BEEN PLACED.
- 18. CONTRACTOR MUST MAINTAIN AN ADEQUATE SUPPLY OF EROSION CONTROL MATERIALS ONSITE TO FACILITATE MAINTENANCE AND REPAIR THROUGHOUT THE RAINY SEASON. TYPICAL MATERIALS THAT SHOULD BE KEPT ONSITE INCLUDE SILT FENCE AND STRAW WATTLE SEDIMENT BARRIERS. GRAVEL BAGS. EROSION CONTROL BLANKETS, STRAW AND EROSION CONTROL SEED MIX.

### **EROSION CONTROL COVER CROP MANAGEMENT NOTES:**

- ESTABLISHING AN EFFECTIVE VEGETATIVE COVER CROP WILL BE THE PRIMARY MEANS OF PREVENTING EROSION FROM THE PROPOSED VINEYARD DEVELOPMENT AREA. AFTER THE INITIAL LAND PREPARATION ACTIVITIES ARE COMPLETE A TEMPORARY COVER CROP WILL BE PLANTED AND STRAW MULCH WILL BE APPLIED THROUGHOUT THE CLEARED AREA TO STABILIZE THE PROJECT AREAS THROUGH THE WINTER. A MINIMUM COVERAGE OF 85% IS REQUIRED TO MAINTAIN EROSION RATES AT ACCEPTABLE LEVELS.
- 2. THE TEMPORARY COVER CROP WILL BE TILLED IN THE SPRING DURING THE INITIAL VINEYARD ESTABLISHMENT PERIOD (UP TO THE FIRST THREE YEARS). THE TILLED AREAS AND ANY OTHER DISTURBED AREAS OR AREAS WITH LESS THAN ADEQUATE COVER WILL ALSO BE MULCHED EACH YEAR IN THE FALL TO PROTECT THE BARE SOIL WHILE THE COVER CROP IS GETTING ESTABLISHED.
- AFTER THE VINEYARD ESTABLISHMENT PERIOD ALL VINEYARD BLOCKS WILL BE CONVERTED TO A NO-TILL REGIME. THE NO-TILL COVER CROP WILL BE MOWED IN THE SPRING AND WILL BE RESEEDED AND MULCHED IN THE FALL AS NECESSARY TO ACHIEVE THE SPECIFIED 85% COVER.
- 4. ALL VINEYARD AVENUES WILL BE PROTECTED WITH A PERMANENT NO-TILL COVER CROP WITH DENSITIES MAINTAINED AT 85% OR MORE THROUGHOUT THE RAINY
- SEASON. VINEYARD AVENUES SHALL NOT BE TILLED. THE COVER CROP SHOULD BE IRRIGATED PRIOR TO THE RAINY SEASON TO ESTABLISH A DENSE COVER PRIOR TO THE ONSET OF HEAVY RAINS. THIS IS ESPECIALLY IMPORTANT IN EROSION PRONE AREAS SUCH AS VINEYARD AVENUES AND MORE STEEPLY SLOPING AREAS. IN ORDER TO EFFECTIVELY ESTABLISH COVER AT LEAST TWO INCHES OF WATER SHOULD BE APPLIED TO GERMINATE THE SEEDS. WATER SHOULD BE APPLIED BY SPRINKLER OR MICROSPRAYERS AT A RATE THAT DOES NOT CAUSE RUNOFF OR EROSION. ADDITIONAL WATER SHOULD BE APPLIED, AS NECESSARY, TO ACHIEVE THE DESIGN COVER PERCENTAGE AND TO MAINTAIN THE COVER CROP UNTIL SUFFICIENT RAINFALL OCCURS. IF ADEQUATE WATER IS NOT AVAILABLE TO IRRIGATE THE ENTIRE PROJECT AREA THEN 20 FOOT WIDE STRIPS, ORIENTATED ALONG THE CONTOUR, SHOULD BE IRRIGATED. LOCATIONS

### TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

IN ORDER TO MINIMIZE THE IMPACTS TO THE IMMEDIATE AND SURROUNDING

ALL WORK IS TO CEASE IF ARCHEOLOGICAL, CULTURAL, OR HISTORICAL RESOURCES ARE DISCOVERED DURING CONSTRUCTION. IF SUCH RESOURCES ARE DISCOVERED, THE NAPA COUNTY CONSERVATION, DEVELOPMENT AND PLANNING DEPARTMENT SHALL BE CONTACTED AT (707) 253-4417 AND AN APPROPRIATE

- WOODY VEGETATION CLEARED FROM THE DEVELOPMENT AREA WILL BE CHIPPED
- LARGE PILES.
- ALL EXPOSED SOIL STOCKPILES SHALL BE COVERED.
- VEHICLE CODE DURING TRANSIT TO AND FROM THE SITE. THE DRIVEWAY AND SITE ACCESS SHALL BE SWEPT DAILY (PREFERABLY WITH WATER
- SWEEPERS), IF VISIBLE SOIL MATERIAL IS CARRIED ONTO THE DRIVEWAY AND STREET. 6. TRAFFIC ON UNPAVED AREAS AND ROADS SHALL BE LIMITED TO 15 MILES PER HOUR
- EXCEED 25 MPH. 8. EXTENDED PERIODS OF CONSTRUCTION EQUIPMENT ENGINE IDLING WILL BE
- AVOIDED TO THE MAXIMUM EXTENT FEASIBLE. CONSTRUCTION EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH

ROCK BLASTING. IF REQUIRED WILL BE PERFORMED IN ISOLATED AREAS AND WILL BE SCHEDULED TO OCCUR BETWEEN THE HOURS OF 10:00 A.M. AND 2:00 P.M.

#### **ENVIRONMENTAL COMMITMENTS:**

# ENVIRONMENT, THE PROJECT PROPOSES THE FOLLOWING MEASURES:

#### COURSE OF ACTION WILL BE DEVELOPED.

- AIR QUALITY: OR USED OR DISPOSED OF IN ANOTHER APPROVED MANNER TO AVOID BURNING IN
- DISTURBED AREAS WILL BE SEEDED AND MULCHED AS SOON AS POSSIBLE. ALL TRUCKS HAULING SOIL. SAND AND OTHER LOOSE MATERIALS SHALL BE COVERED OR ALL TRUCKS SHALL MAINTAIN AT LEAST TWO FEET OF FREEBOARD (I.E., THE MINIMUM REQUIRED SPACE BETWEEN THE TOP OF THE LOAD AND THE TOP OF THE TRAILER) IN ACCORDANCE WITH SECTION 23114 OF THE CALIFORNIA
- 7. GRADING AND EARTHMOVING ACTIVITIES SHALL BE SUSPENDED WHEN WINDS

#### MANUFACTURERS' SPECIFICATIONS.

PREPARED UNDER THE

CHECKED BY:

18-110ECP\_NOTES.DWG

SHEET NUMBER:

