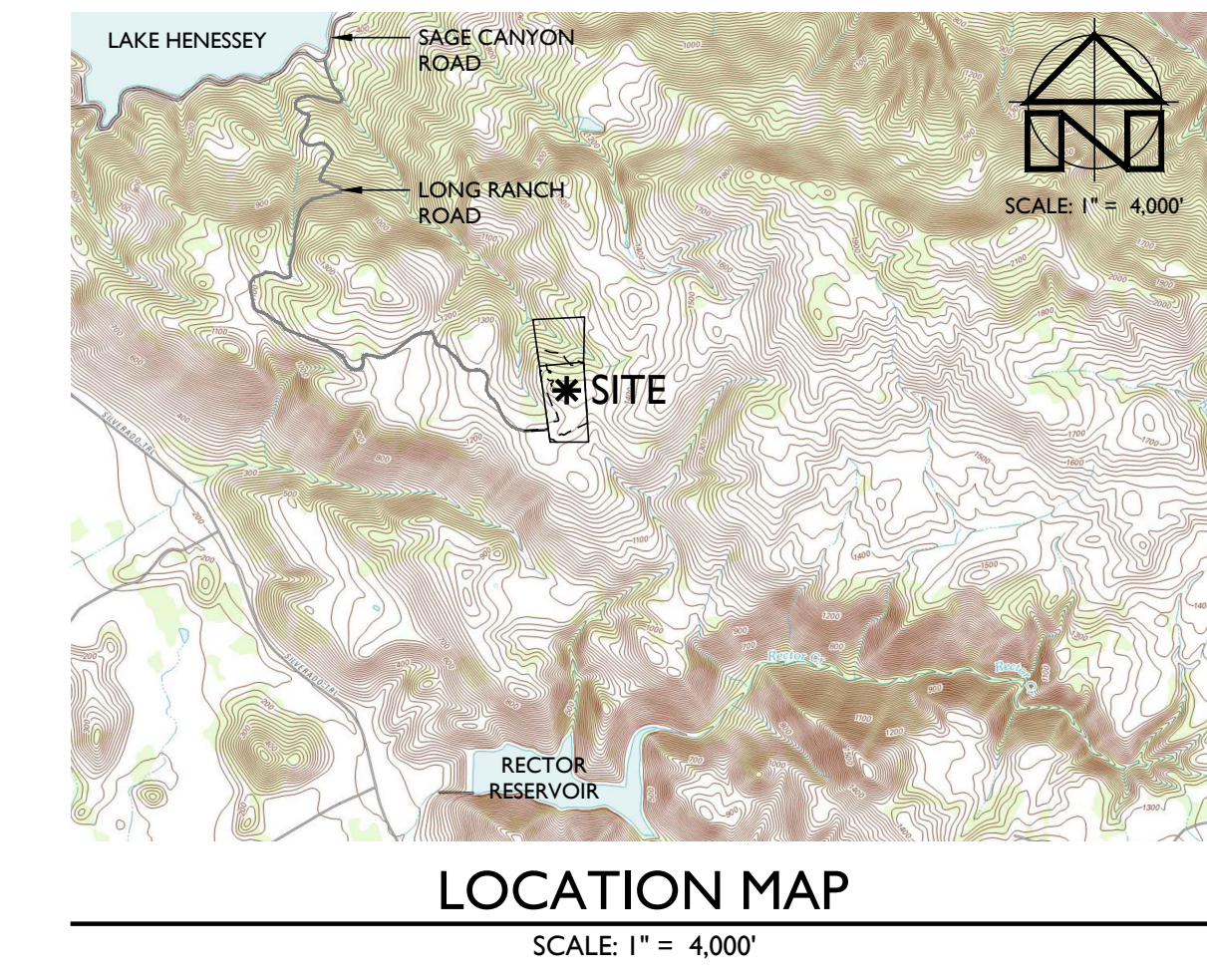
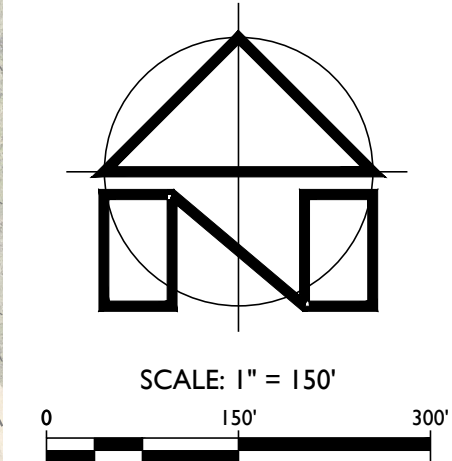
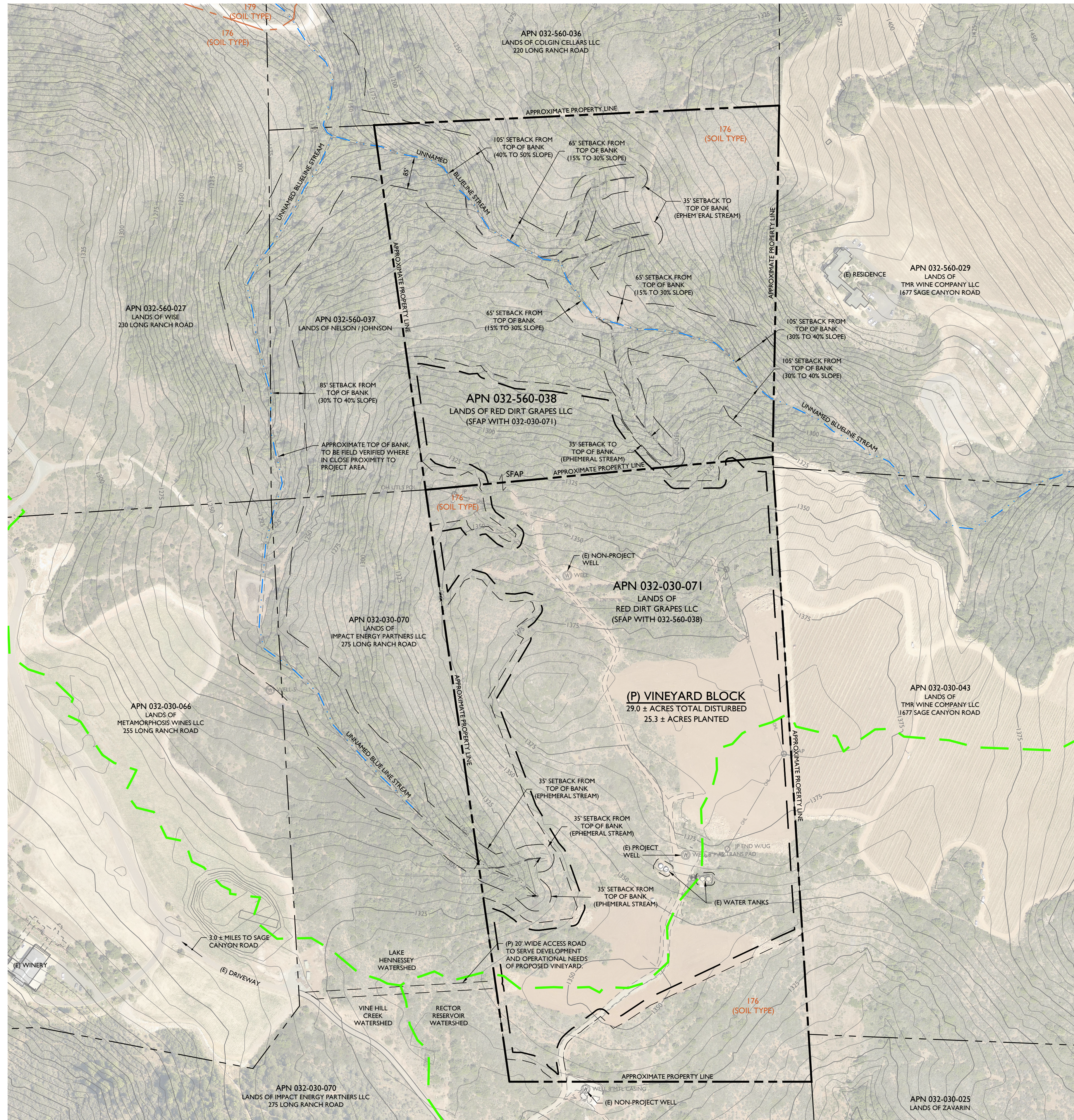


RED DIRT GRAPES LLC

VINEYARD DEVELOPMENT EROSION CONTROL PLAN



PROJECT INFORMATION:
PROPERTY OWNER & APPLICANT:
 RED DIRT GRAPES LLC
 CARE OF: JOHN CASSIL
 9000 CAMERON PARKWAY
 OKLAHOMA CITY, OK 73114
 (405) 523-5860
SITE ADDRESS:
 LONG RANCH ROAD
ASSESSOR'S PARCEL NUMBERS:
 032-030-071 & 032-560-038 (SFAP)
PARCEL SIZES:
 32.2 ± ACRES & 22.5 ± ACRES (RESPECTIVELY)
PROJECT SIZE:
 29.0 ± ACRES TOTAL DISTURBED AREA
 25.3 ± ACRES PLANTED
ZONING:
 AGRICULTURAL WATERSHED (AW)

SHEET INDEX:
 C1 OVERALL SITE PLAN
 C2 NOTES & ABBREVIATIONS
 C3 SLOPE DETERMINATION SECTIONS & FENCING PLAN
 C4 EROSION CONTROL PLAN
 C5 DETAILS

FLOOD HAZARD NOTE:
 ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) MAP NUMBER 06055C0405E, EFFECTIVE SEPTEMBER 26, 2008, THE PROJECT SITE IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA.

- NOTES:**
1. 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 ARE NADIR IMAGES CAPTURED BY PICTOMETRY INTERNATIONAL DATED JULY 15, 2021 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 APPROXIMATE AND ARE PROVIDED FOR GENERAL INFORMATIONAL PURPOSES ONLY.
 6. STREAM SETBACKS ARE ESTIMATED BASED ON INTERPRETATION OF 5' CONTOUR INTERVALS MAPS. SETBACKS MUST BE CONSIDERED APPROXIMATE AND BE FIELD VERIFIED PRIOR TO FINAL DESIGN.

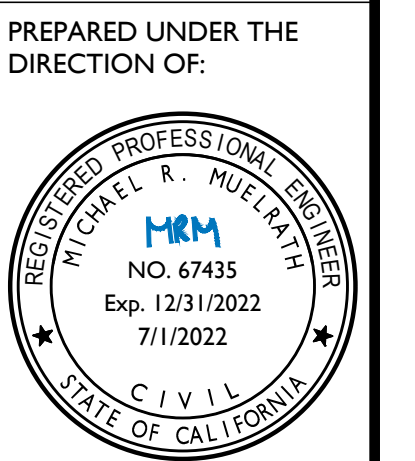
SOIL TYPE LEGEND:
 176 ROCK OUTCROP - HAMBRIGHT COMPLEX, 50% TO 75% SLOPES.
 179 SOBRIANTE LOAM, 30% TO 50% SLOPES.

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

LEGEND:

- APPROXIMATE PROPERTY LINE
- - - VINEYARD CLEARING LIMITS / VINEYARD AVENUE
- LIMIT OF VINEYARD BLOCK
- - - SOIL TYPE BOUNDARY
- COUNTY DEFINED WATERSHED BOUNDARY
- BLUELINE STREAM
- WATERS OF THE US / EPHEMERAL STREAM (AS LOCATED BY AES)

OVERALL SITE PLAN
 SCALE: 1" = 150'



DRAWN BY: PowerCAD LLC	
CHECKED BY: MRM	
DATE: JULY 1, 2022	
REVISIONS:	BY:
4/22/2022	YMS
PERMIT SUBMITTAL	
7/1/2022	YMS
PLAN CHECK COMMENTS #1	
JOB NUMBER: 21-113	
FILE: 21-113ECP-OSP.DWG	
ORIGINAL SIZE: 24" X 36"	
SHEET NUMBER: C1	
OF	
5	

GENERAL NOTES:

- 1. 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.
2. ALL MATERIALS AND WORKMANSHIP FOR THE WORK DESCRIBED ON THESE PLANS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING STANDARDS AS ADPTED AND AMENDED BY NAPA COUNTY:
A. CALIFORNIA BUILDING CODE (2019)
B. CALIFORNIA ELECTRIC CODE (2019)
C. CALIFORNIA PLUMBING CODE (2019)
D. CALIFORNIA MECHANICAL CODE (2019)
E. CALIFORNIA FIRE CODE (2019)
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.
3. CONTRACTOR SHALL BE APPROPRIATELY LICENSED WITH THE STATE OF CALIFORNIA TO PERFORM THE WORK SHOWN ON THESE PLANS.
4. CONTRACTOR SHALL SUPPLY ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO CONSTRUCT THE IMPROVEMENTS ILLUSTRATED ON THESE PLANS.
5. 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.
7. 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.
8. 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.
9. THE PROPERTY OWNER AND CONTRACTOR ARE RESPONSIBLE FOR OBTAINING ALL 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.
11. CONTRACTOR SHALL PROVIDE AND MAINTAIN BARRICADES TO PROVIDE FOR THE SAFETY OF THE GENERAL PUBLIC TO THE SATISFACTION OF NAPA COUNTY AND THE OWNER.
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.
14. 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:

- 1. FADED BACKGROUND REPRESENTS EXISTING TOPOGRAPHIC INFORMATION ON SHEET C1 WAS TAKEN FROM THE NAPA COUNTY GEOGRAPHIC INFORMATION SYSTEM DATABASE. TOPOGRAPHIC INFORMATION ON OTHER SHEETS WAS TAKEN FROM THE "TOPOGRAPHIC MAP OF A PORTION OF THE LANDS OF NELSON / JOHNSON" PREPARED BY RSA- CIVIL ENGINEERING + SURVEYING + PLANNING, DATED MARCH 2021.
2. APPLIED CIVIL ENGINEERING INCORPORATED ASSUMES NO LIABILITY REGARDING THE ACCURACY OR COMPLETENESS OF THE TOPOGRAPHIC INFORMATION.
3. AERIAL PHOTOGRAPHS WERE OBTAINED FROM THE NAPA COUNTY GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASE, TAKEN APRIL TO JUNE 2018 AND MAY NOT REPRESENT CURRENT CONDITIONS.
4. CONTOUR INTERVAL:
SHEET C1: FIVE (5) FEET, HIGHLIGHTED EVERY TWENTY FIVE (25) FEET. OTHER SHEETS: ONE (1) FOOT, HIGHLIGHTED EVERY FIVE (5) FEET.
5. BENCHMARK: NAVD 88
6. THE PROPERTY LINES SHOWN ON THESE PLANS DO NOT REPRESENT A BOUNDARY SURVEY. THEY ARE APPROXIMATE AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.
7. 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.
8. ALL CONSTRUCTION STAKING SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR.

GRADING NOTES:

- 1. ALL EARTHWORK IS TO CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, NAPA COUNTY CONSERVATION REGULATIONS AND THE 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.
5. CONTRACTOR SHALL CONDUCT ALL GRADING OPERATIONS IN A MANNER THAT PREVENTS WIND BLOWN DIRT AND DUST AND RELATED DAMAGE TO NEIGHBORING PROPERTIES.
6. CONTRACTOR SHALL CONFORM TO EXISTING IMPROVEMENTS WITH A SMOOTH TRANSITION TO AVOID ABRUPT CHANGES IN GRADE, LOW SPOTS OR OTHER HAZARDOUS CONDITIONS.
7. PROPERTY OWNER SHALL BE RESPONSIBLE FOR MAINTAINING ALL FINISH GRADED SLOPES AFTER THE COMPLETION OF CONSTRUCTION AND REPAIRING ANY EROSION DAMAGE.

EXISTING UTILITY NOTES:

- 1. 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.
2. 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.
3. 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.

EROSION CONTROL NOTES:

- 1. 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 SEPTEMBER 15TH OF EACH YEAR THAT THE PROJECT IS UNDER CONSTRUCTION.
3. A REQUEST TO ALLOW GRADING TO EXTEND BEYOND SEPTEMBER 1ST 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 SEPTEMBER 1ST MUST BE SUBMITTED IN WRITING TO NAPA COUNTY NO LATER THAN AUGUST 15TH. GRADING BEYOND THE WINTERIZATION DEADLINE WILL NOT BE ALLOWED PRIOR TO APPROVAL BY NAPA COUNTY.
4. ALL PERMANENT DRAINAGE FACILITIES AND SEDIMENT RETENTION STRUCTURES MUST BE INSTALLED BY SEPTEMBER 1ST.
5. ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (WATER BARS, SILT FENCE & STRAW WATTLES) MUST BE INSTALLED BY SEPTEMBER 15TH.
6. ALL EROSION CONTROL MEASURES MUST BE INSPECTED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE RAINY SEASON (SEPTEMBER 15TH THROUGH APRIL 1ST). 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.
7. 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.
8. 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%
BELL BEANS 40%
CREEPING RED FESCUE 40%
CHEWING FESCUE 25%
DWARF PERENNIAL RYE 25%
ROSE CLOVER 8%
NEW ZEALAND WHITE CLOVER 2%

Table with 2 columns: Seed Name, Percentage. Includes entries like COMMON VETCH 10%, CALIFORNIA RED OATS 20%, FIELD PEAS 30%, BELL BEANS 40%, CREEPING RED FESCUE 40%, CHEWING FESCUE 25%, DWARF PERENNIAL RYE 25%, ROSE CLOVER 8%, NEW ZEALAND WHITE CLOVER 2%.

- 11. 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.
14. 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.
16. STRAW SHOULD BE SPREAD BY HAND IN A MANNER THAT PROMOTES FORMATION OF AN INTERWOVEN MATRIX. CRIMPING STRAW INTO THE SOIL IS HIGHLY RECOMMENDED ESPECIALLY ON 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:

- 1. 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 75% 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.
3. 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 RESEEDDED AND MULCHED IN THE FALL AS NECESSARY TO ACHIEVE THE SPECIFIED 75% COVER.
4. ALL VINEYARD AVENUES WILL BE PROTECTED WITH A PERMANENT NO-TILL COVER CROP WITH DENSITIES MAINTAINED AT 75% OR MORE THROUGHOUT THE RAINY SEASON. VINEYARD AVENUES SHALL NOT BE TILLED.
5. 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.

ENVIRONMENTAL COMMITMENTS:

- IN ORDER TO MINIMIZE THE IMPACTS TO THE IMMEDIATE AND SURROUNDING ENVIRONMENT, THE PROJECT PROPOSES THE FOLLOWING MEASURES:
ARCHEOLOGY:
1. 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 COURSE OF ACTION WILL BE DEVELOPED.
AIR QUALITY:
1. WOODY VEGETATION CLEARED FROM THE DEVELOPMENT AREA WILL BE CHIPPED OR USED OR DISPOSED OF IN ANOTHER APPROVED MANNER TO AVOID BURNING IN LARGE PILES.
2. ALL EXPOSED SOIL STOCKPILES SHALL BE COVERED.
3. DISTURBED AREAS WILL BE SEEDED AND MULCHED AS SOON AS POSSIBLE.
4. 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 VEHICLE CODE DURING TRANSIT TO AND FROM THE SITE.
5. 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 (MPH).
7. GRADING AND EARTH-MOVING ACTIVITIES SHALL BE SUSPENDED WHEN WINDS EXCEED 25 MPH.
8. EXTENDED PERIODS OF CONSTRUCTION EQUIPMENT ENGINE IDLING WILL BE AVOIDED TO THE MAXIMUM EXTENT FEASIBLE.
9. CONSTRUCTION EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS.
NOISE:
1. 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.

ABBREVIATIONS:

Table with 4 columns: Abbreviation, Full Name, Abbreviation, Full Name. Includes entries like AB AGGREGATE BASE, AC ASPHALT CONCRETE, AD AREA DRAIN, AP ANGLE POINT, BTM BOTTOM, CLR CLEAR, CONF CONFORM, CP CONFORM, DCV DOUBLE CHECK VALVE, DI DROP INLET, DS DOWN SPOUT, (E) EXISTING, EC END CURVE, EP ELEVATION, EOC EDGE OF PAVEMENT, EOC FUTURE, FOC FIRE DEPARTMENT CONNECTION, FF FINISH FLOOR, FG FINISH GRADE, FH FIRE HYDRANT, FL FLOW LINE, FS FINISH SURFACE, FSR FIRE SPRINKLER RISER, GB GRADE BREAK, GM GAS METER, HMA HOT MIX ASPHALT, HP HIGH POINT, INV INVERT, IPS IRON PIPE SIZE, IRR IRRIGATION, LF LINEAR FEET, LP LOW POINT, MAX MAXIMUM, MIN MINIMUM, OC ON CENTER, OD OUTSIDE DIAMETER, OG ORIGINAL GRADE, (P) PROPOSED, PC POINT OF CURVATURE, PCC PORTLAND CEMENT CONCRETE, PL PROPERTY LINE, PT POINT OF TANGENCY, PVC POLYVINYL CHLORIDE, PW PROCESS WASTE, PVCO PROCESS WASTE CLEANOUT, RSV RECIRCULATING SPLITTER VALVE, SAD SEE ARCHITECTURAL DRAWINGS, SD STORM DRAIN, SDCO STORM DRAIN CLEANOUT, SDMH STORM DRAIN MANHOLE, SED SEE ELECTRICAL DRAWINGS, SF SQUARE FOOT, SHLDR SHOULDER, SLD SEE LANDSCAPE DRAWINGS, SMD SEE MECHANICAL DRAWINGS, SPD SEE PLUMBING DRAWINGS, SSD SEE STRUCTURAL DRAWINGS, SS SANITARY SEWER, SSCO SANITARY SEWER CLEANOUT, SSMH SANITARY SEWER MANHOLE, TC TOP FACE OF CURB, TD TERRACE DRAIN, TW TOP OF WALL, TYP TYPICAL, WM WATER METER, WD WATER VALVE, XFMR TRANSFORMER



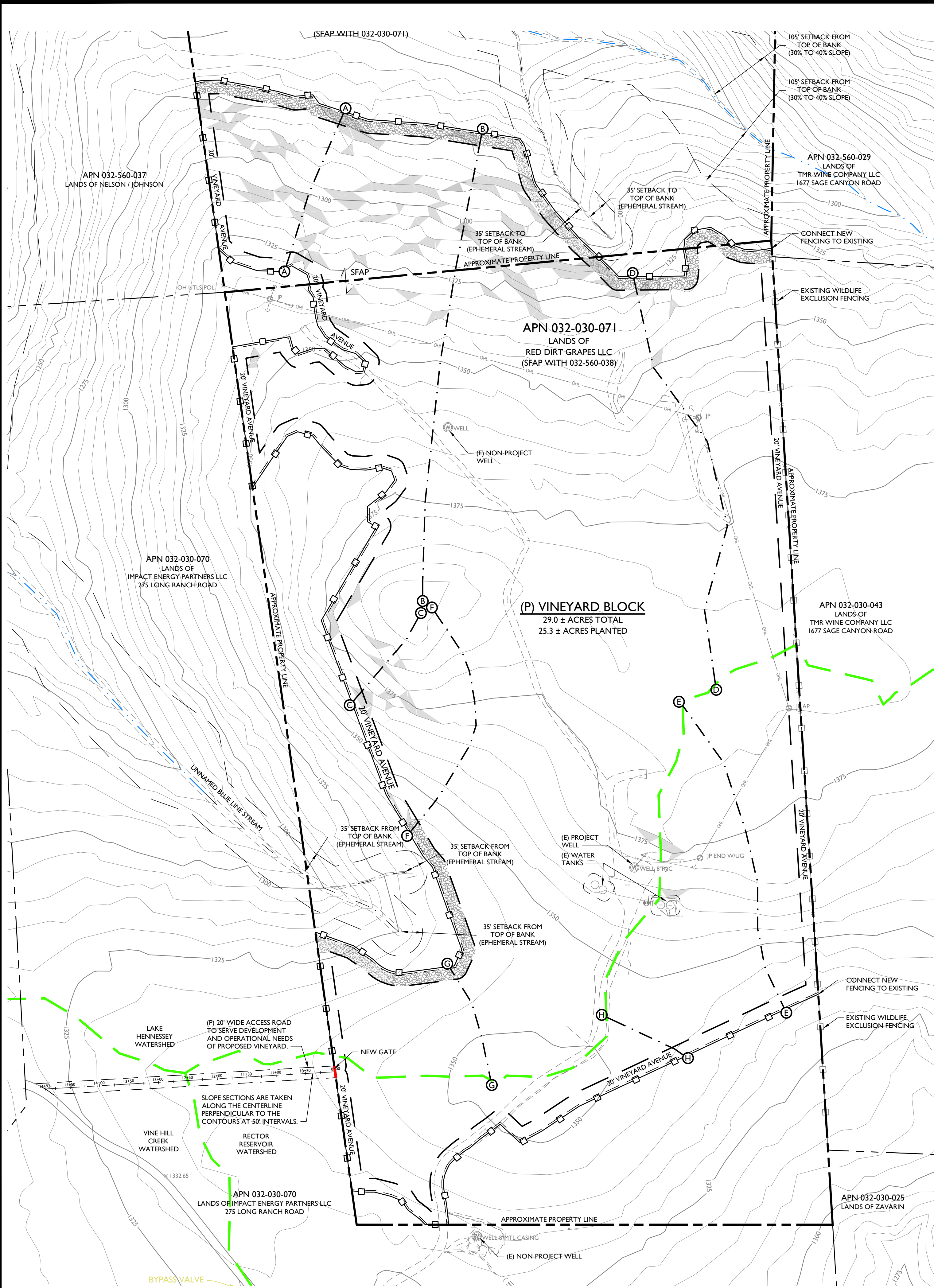
RED DIRT GRAPES LLC VINEYARD DEVELOPMENT EROSION CONTROL PLAN NOTES & ABBREVIATIONS

PREPARED UNDER THE DIRECTION OF:

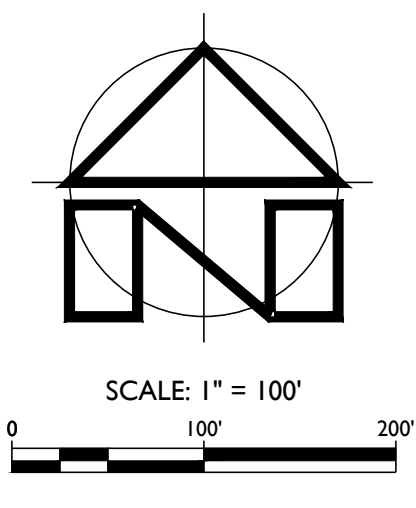


Table with 2 columns: Field Name, Value. Includes: DRAWN BY: PowerCAD LLC, CHECKED BY: MRM, DATE: JULY 1, 2022, REVISIONS: 4/22/2022 YMS PERMIT SUBMITTAL, 7/1/2022 YMS PLAN CHECK COMMENTS #1

Table with 2 columns: Field Name, Value. Includes: JOB NUMBER: 21-113, FILE: 21-113ECP-NOTES.DWG, ORIGINAL SIZE: 24" X 36", SHEET NUMBER:



SITE PLAN
SCALE: 1" = 100'

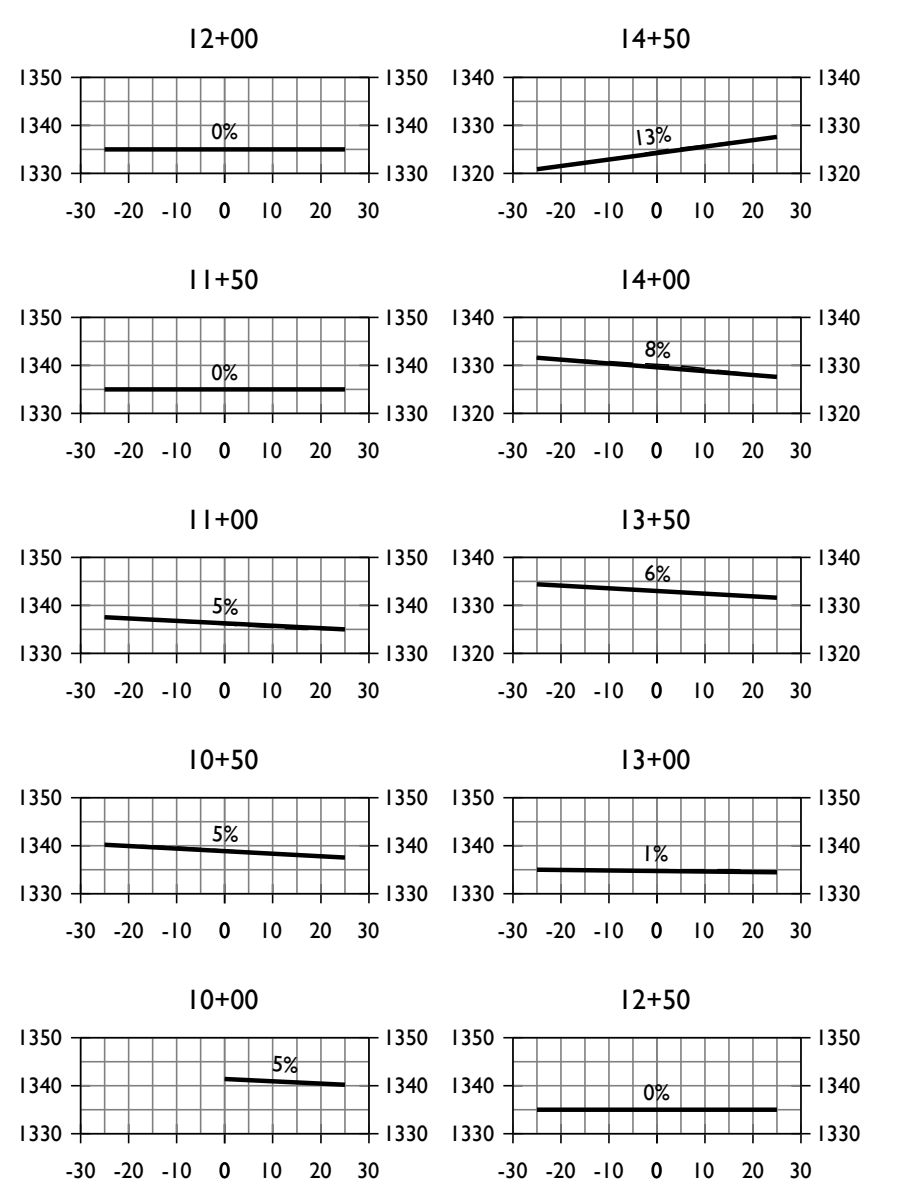


- LEGEND:**
- APPROXIMATE PROPERTY LINE
 - VINEYARD CLEARING LIMITS / VINEYARD AVENUE
 - LIMIT OF VINEYARD BLOCK
 - WATERSHED BOUNDARY
 - BLUELINE STREAM
 - WATERS OF THE US / EPHEMERAL STREAM (AS LOCATED BY AES)
 - ⊗ SLOPE SECTION. SEE TABLE, THIS SHEET.
 - EXISTING WILDLIFE EXCLUSION FENCING
 - NEW WILDLIFE EXCLUSION FENCING
 - NEW GATE
 - SLOPES OVER 30% (0.99 AC)

ACCESS ROAD SLOPE SECTIONS

10+00	5%
10+50	5%
11+00	5%
11+50	0%
12+00	0%
12+50	0%
13+00	1%
13+50	6%
14+00	8%
14+50	13%
AVERAGE*	7%

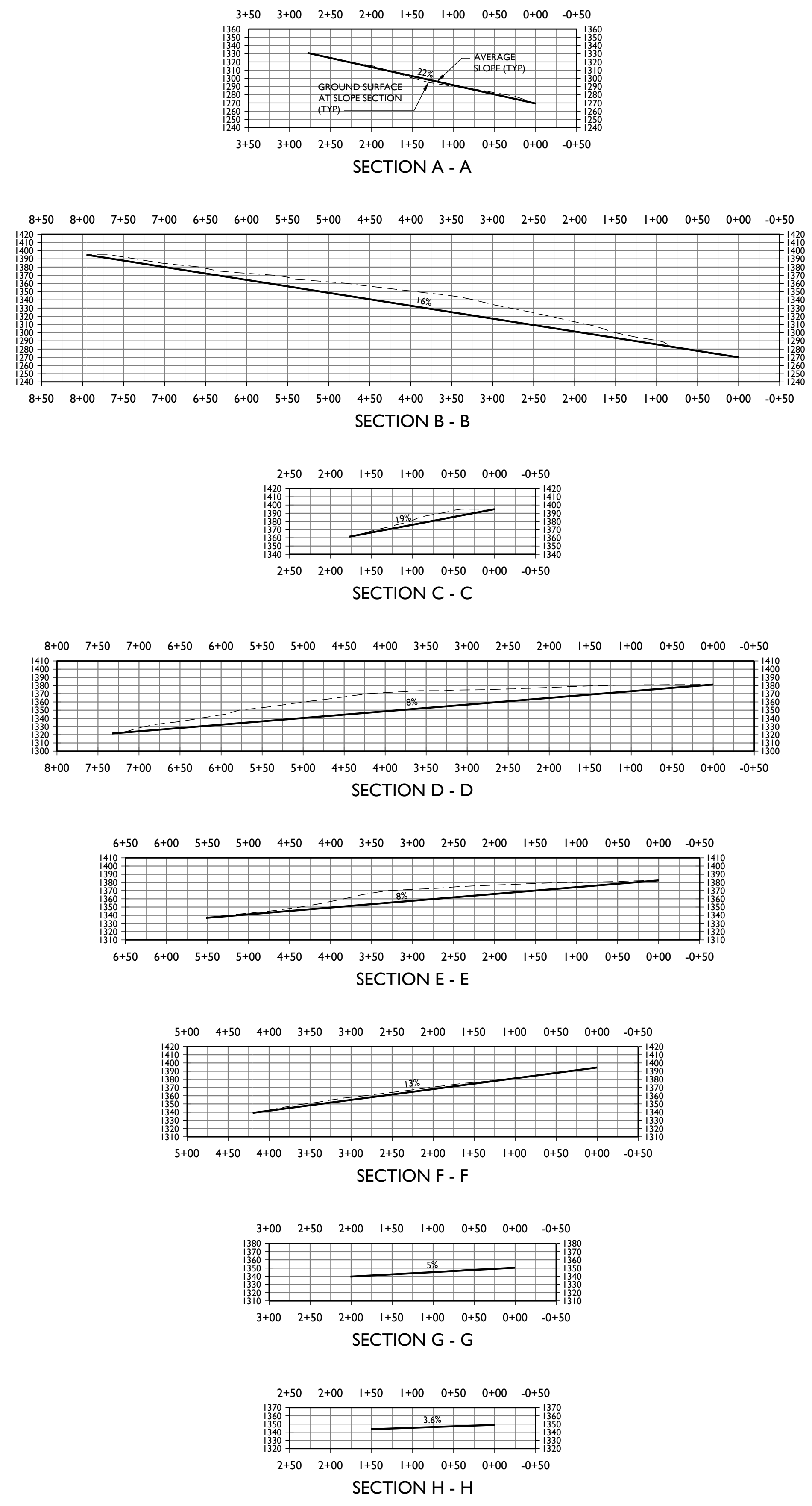
*EXCLUDES SECTIONS WHERE SLOPE IS < 5%.



ACCESS ROAD SLOPE DETERMINATION SECTIONS
SCALE: 1" = 40'

VINEYARD SLOPE SECTIONS

A - A	22%
B - B	16%
C - C	19%
D - D	8%
E - E	8%
F - F	13%
G - G	5%
H - H	4%
AVERAGE	11%



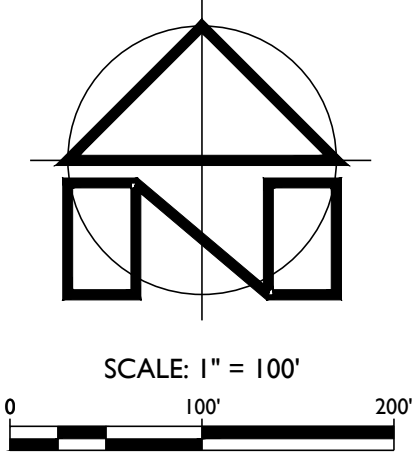
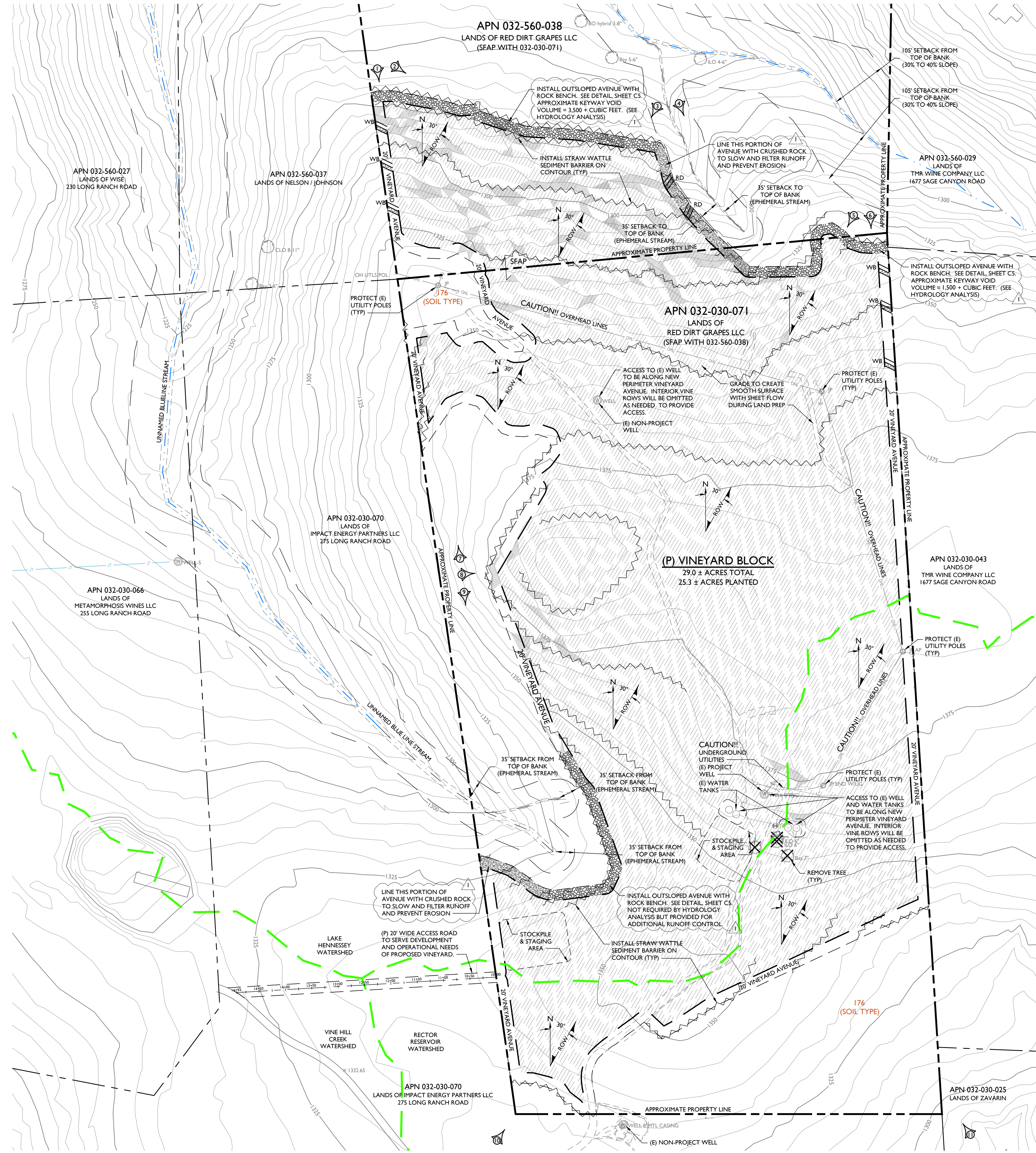
VINEYARD SITE SLOPE DETERMINATION SECTIONS
SCALE: 1" = 100'

RED DIRT GRAPES LLC
VINEYARD DEVELOPMENT EROSION CONTROL PLAN
SLOPE DETERMINATION SECTIONS & FENCING PLAN

PREPARED UNDER THE DIRECTION OF:

DRAWN BY: Power/CAD LLC
CHECKED BY: MRM
DATE: JULY 1, 2022
REVISIONS: 4/22/2022 BY: YMS PERMIT SUBMITTAL
7/1/2022 BY: YMS PLAN CHECK COMMENTS #1

JOB NUMBER: 21-113
FILE: 21-113CP-PLAN.DWG
ORIGINAL SIZE: 24" X 36"
SHEET NUMBER:



SOIL TYPE LEGEND:

- 176 ROCK OUTCROP - HAMBRIGHT COMPLEX, 50% TO 75% SLOPES.
- 179 SOBRIANTE LOAM, 30% TO 50% SLOPES.

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

LEGEND:

- APPROXIMATE PROPERTY LINE
- VINEYARD CLEARING LIMITS / VINEYARD AVENUE
- LIMIT OF VINEYARD BLOCK
- SOIL TYPE BOUNDARY
- WATERSHED BOUNDARY
- BLUELINE STREAM
- WATERS OF THE US / EPHEMERAL STREAM (AS LOCATED BY AES)
- ROW VINE ROWS & ROW DIRECTION
- STRAW WATTLE SEDIMENT BARRIER
- WB WATERBAR
- RD ROLLING DIP
- PHOTO LOCATION AND DIRECTION

NOTES:

1. ALL CLEARING LIMITS SHALL BE MARKED BY THE ENGINEER OR SURVEYOR PRIOR TO CONSTRUCTION AND TEMPORARY CONSTRUCTION FENCING (ORANGE FENCING OR EQUIVALENT) SHALL BE INSTALLED ALONG THE CLEARING LIMITS PRIOR TO ANY LAND PREPARATION ACTIVITIES. THE TEMPORARY CONSTRUCTION FENCING SHALL BE ADJUSTED AROUND THE CANOPY OF ANY TREES THAT ARE TO REMAIN OUTSIDE OF THE CLEARING LIMITS WITH CANOPY THAT OVERHANGS INTO THE CLEARING LIMITS TO KEEP LAND PREPARATION ACTIVITIES OUTSIDE OF THE TREE CANOPY AREA.
2. ALL STREAM SETBACKS IN THE IMMEDIATE VICINITY OF THE PROPOSED DEVELOPMENT SHALL BE VERIFIED BY THE ENGINEER PRIOR TO CONSTRUCTION.
3. TRACK WALK ENTIRE DISTURBED AREA. SEE SURFACE ROUGHENING DETAIL SHEET CS.
4. ALL TEMPORARY STAGING, STOCKPILE AND PARKING AREAS SHALL BE WITHIN THE PROPOSED DEVELOPMENT AREAS. NO STAGING, STOCKPILING, PARKING OR OTHER LAND DISTURBANCE SHALL OCCUR OUTSIDE OF THE PROPOSED DEVELOPMENT AREAS. THESE AREAS MAY BE ADJUSTED WITHIN THE PROJECT AREA AS NEEDED TO FACILITATE LAND PREPARATION ACTIVITIES.
5. ALL WORK FOR IRRIGATION SYSTEM INSTALLATION WILL BE WITHIN THE PROPOSED PROJECT LIMITS. NO TRENCHING OUTSIDE OF THE PROJECT LIMITS IS REQUIRED.
6. FERTILIZER USE SHALL BE MINIMIZED TO THE EXTENT POSSIBLE IN ACCORDANCE WITH STANDARD GRAPE GROWING PRACTICES. FERTILIZER APPLICATIONS SHALL BE TIMED TO OCCUR DURING TIMES OF NO RAINFALL / RUNOFF (I.E. APRIL / MAY - SEPTEMBER).

SITE PHOTOGRAPH NOTES:

PHOTO REPRESENTS APPROXIMATE LOCATION AND DIRECTION OF ISOMETRIC VIEW OBTAINED FROM GOOGLE EARTH IMAGERY DATED SEPTEMBER 10, 2021. SEE PHOTOGRAPHIC DOCUMENTATION OF EXISTING SITE CONDITIONS FOR THE RED DIRT GRAPES LLC VINEYARD DEVELOPMENT EROSION CONTROL PLAN FOR PHOTOGRAPHS.

EROSION CONTROL PLAN
SCALE: 1" = 100'

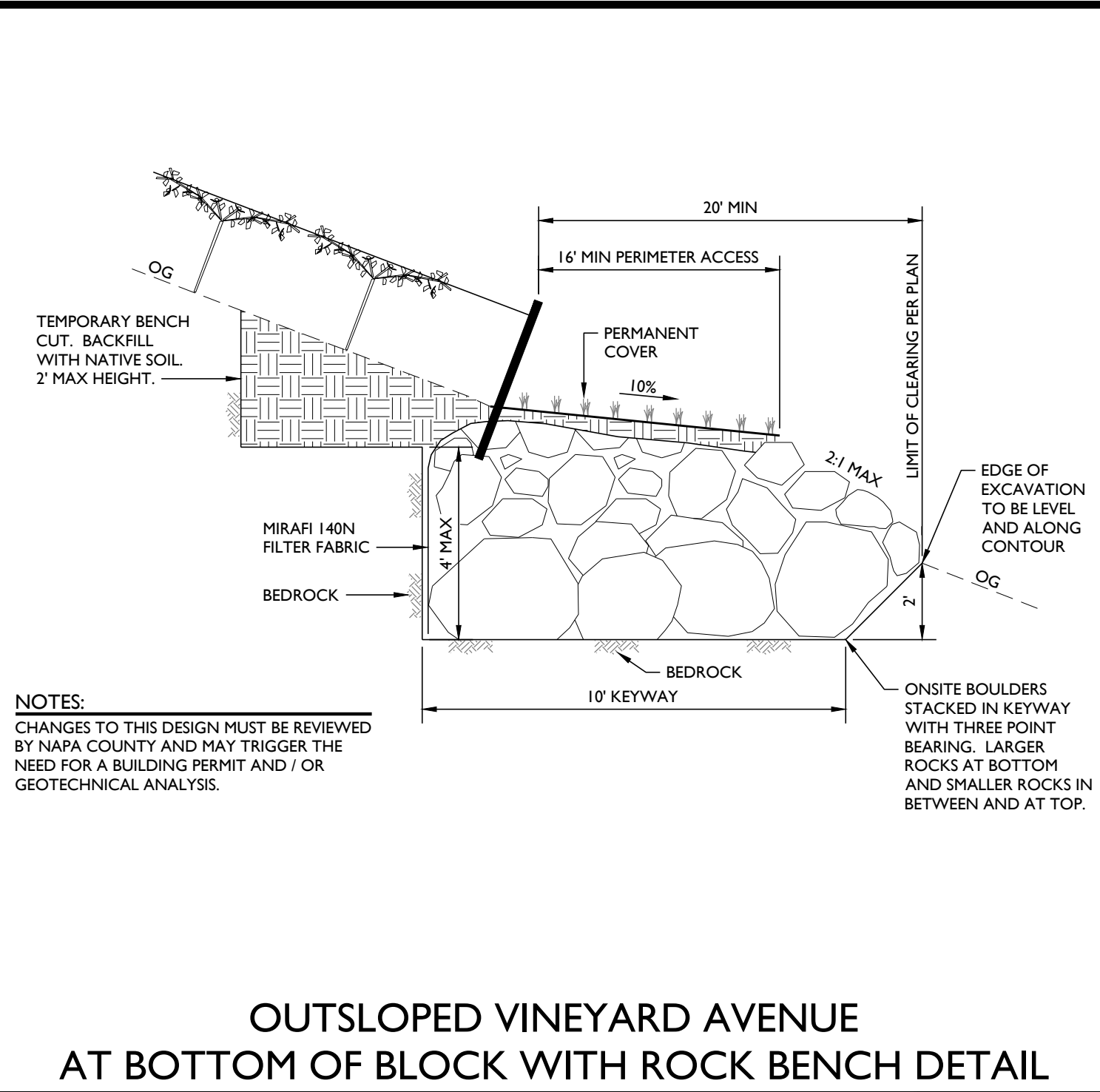
RED DIRT GRAPES LLC
VINEYARD DEVELOPMENT EROSION CONTROL PLAN
EROSION CONTROL PLAN

PREPARED UNDER THE DIRECTION OF:

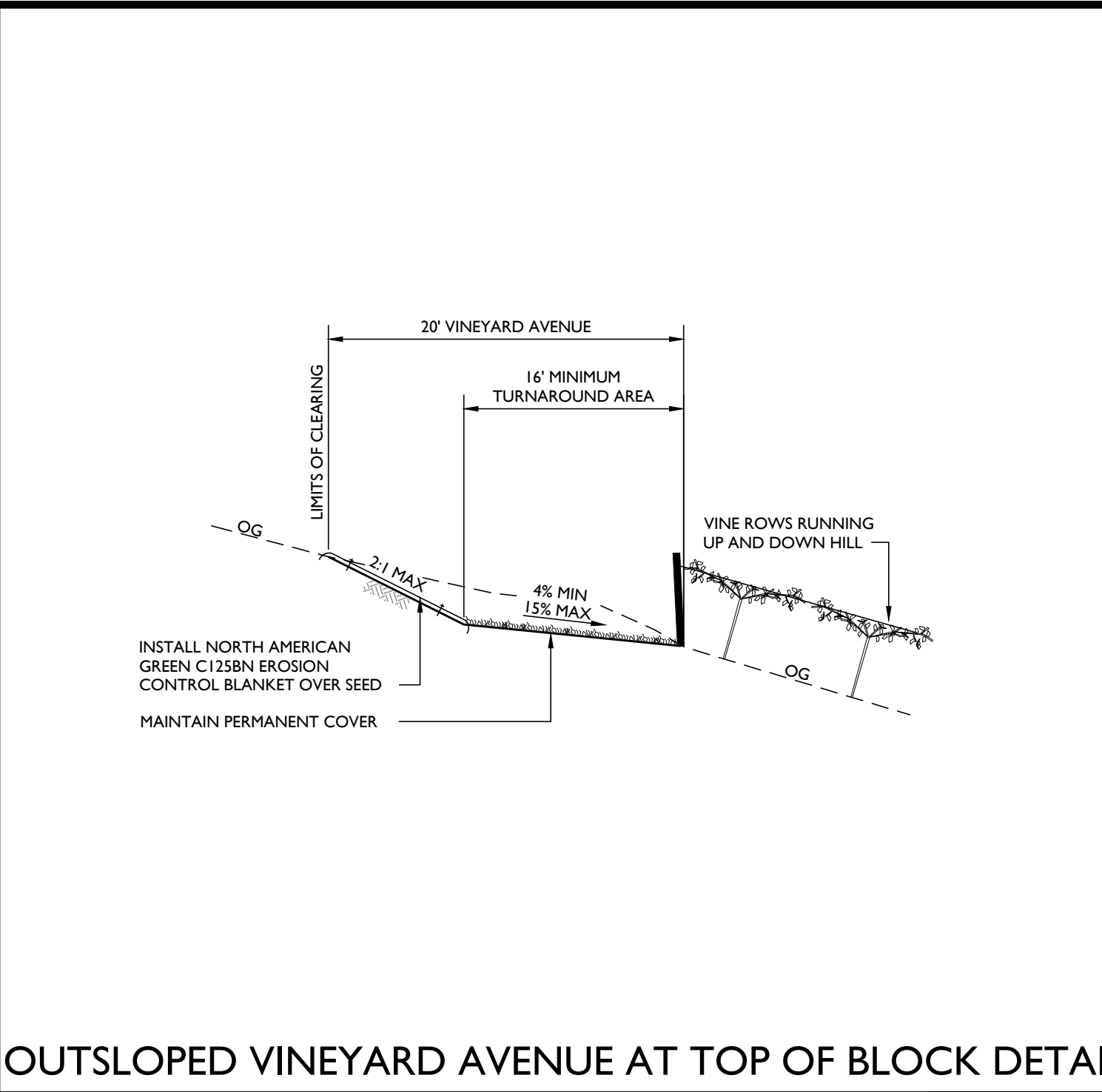


DRAWN BY:	Power/CAD LLC
CHECKED BY:	MRM
DATE:	JULY 1, 2022
REVISIONS:	BY:
4/22/2022	YMS
PERMIT SUBMITTAL	
7/1/2022	YMS
PLAN CHECK COMMENTS #1	

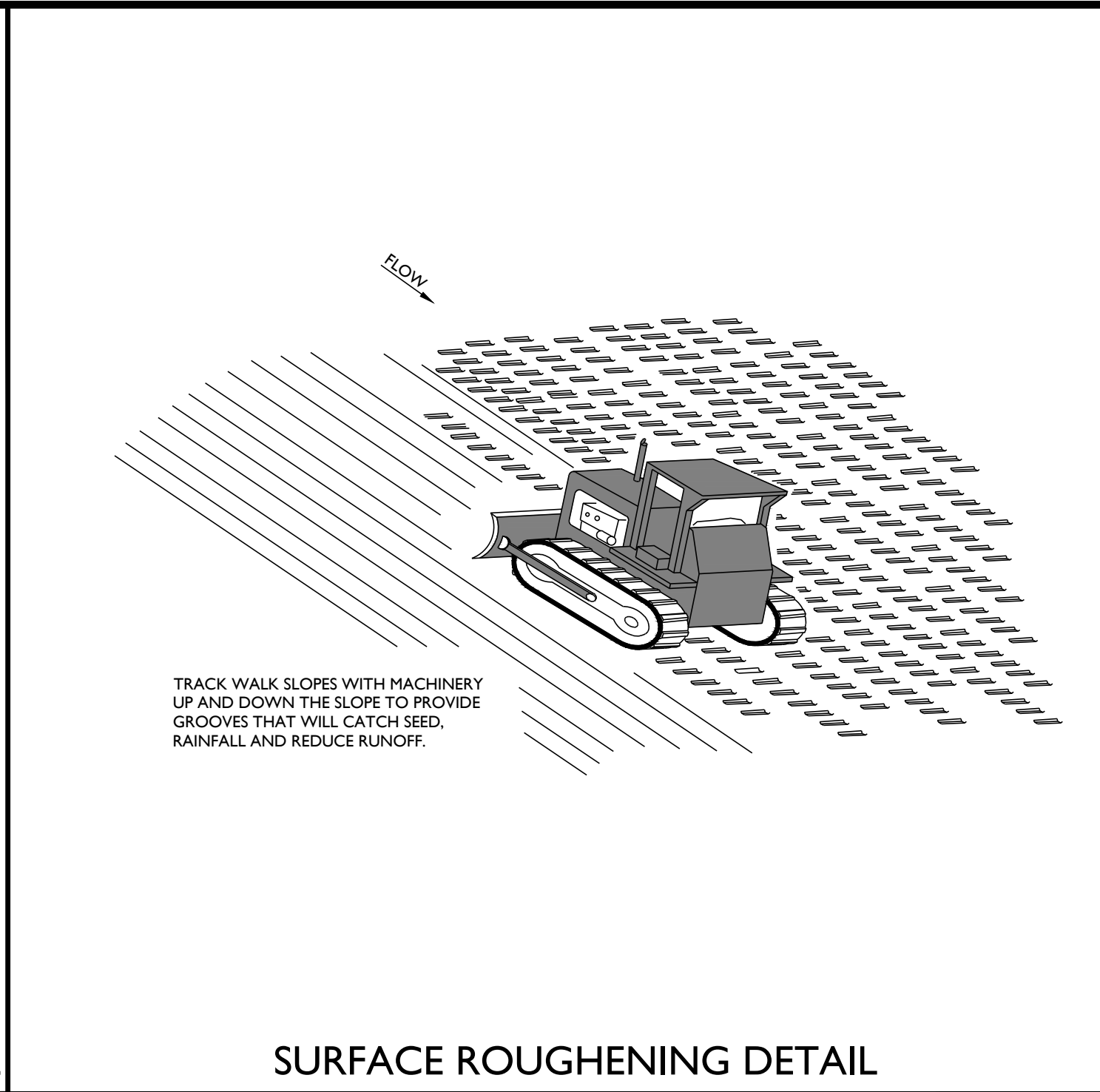
JOB NUMBER:	21-113
FILE:	21-113ECP-PLAN.DWG
ORIGINAL SIZE:	24" X 36"
SHEET NUMBER:	



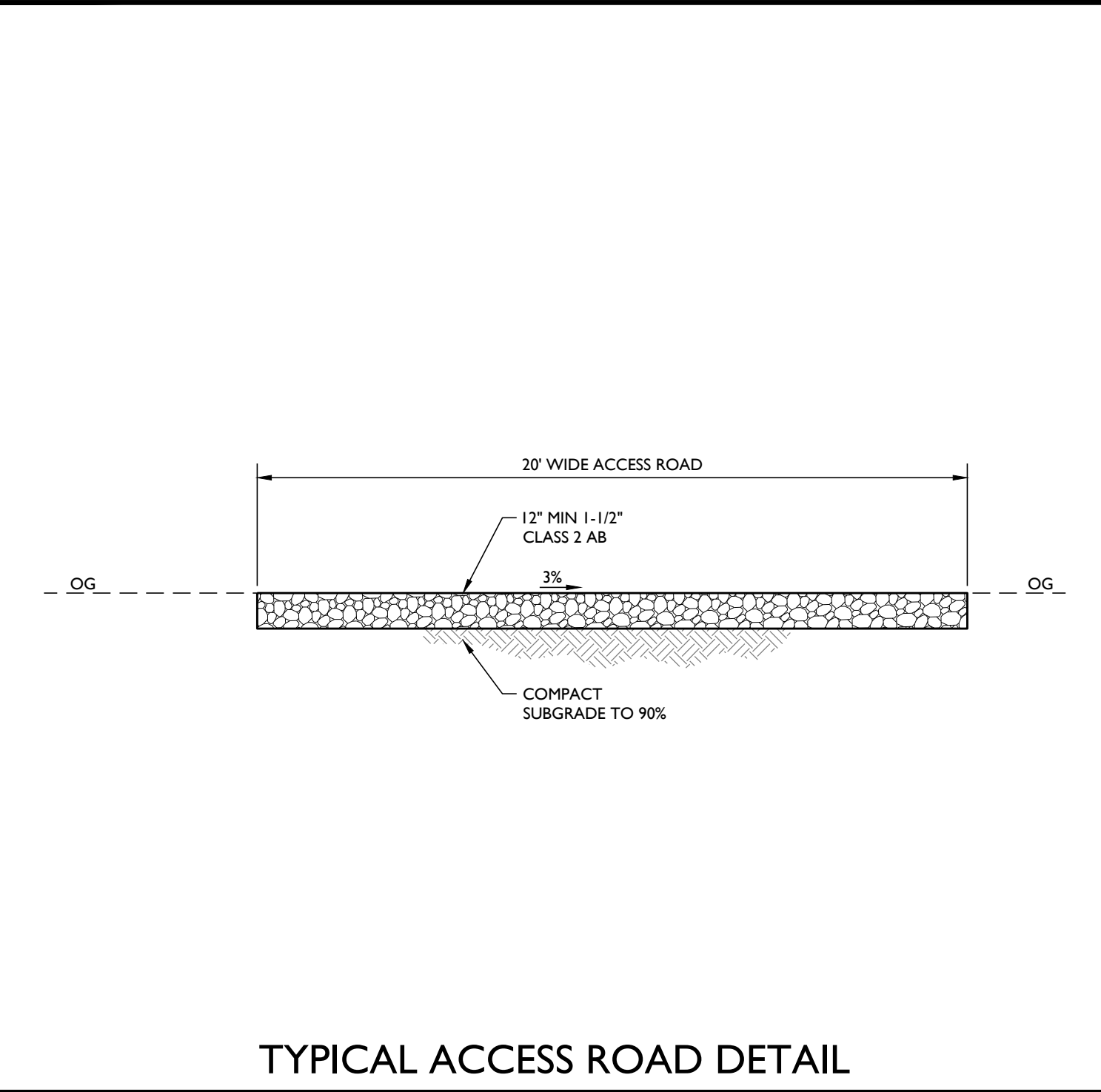
OUTSLOPED VINEYARD AVENUE AT BOTTOM OF BLOCK WITH ROCK BENCH DETAIL



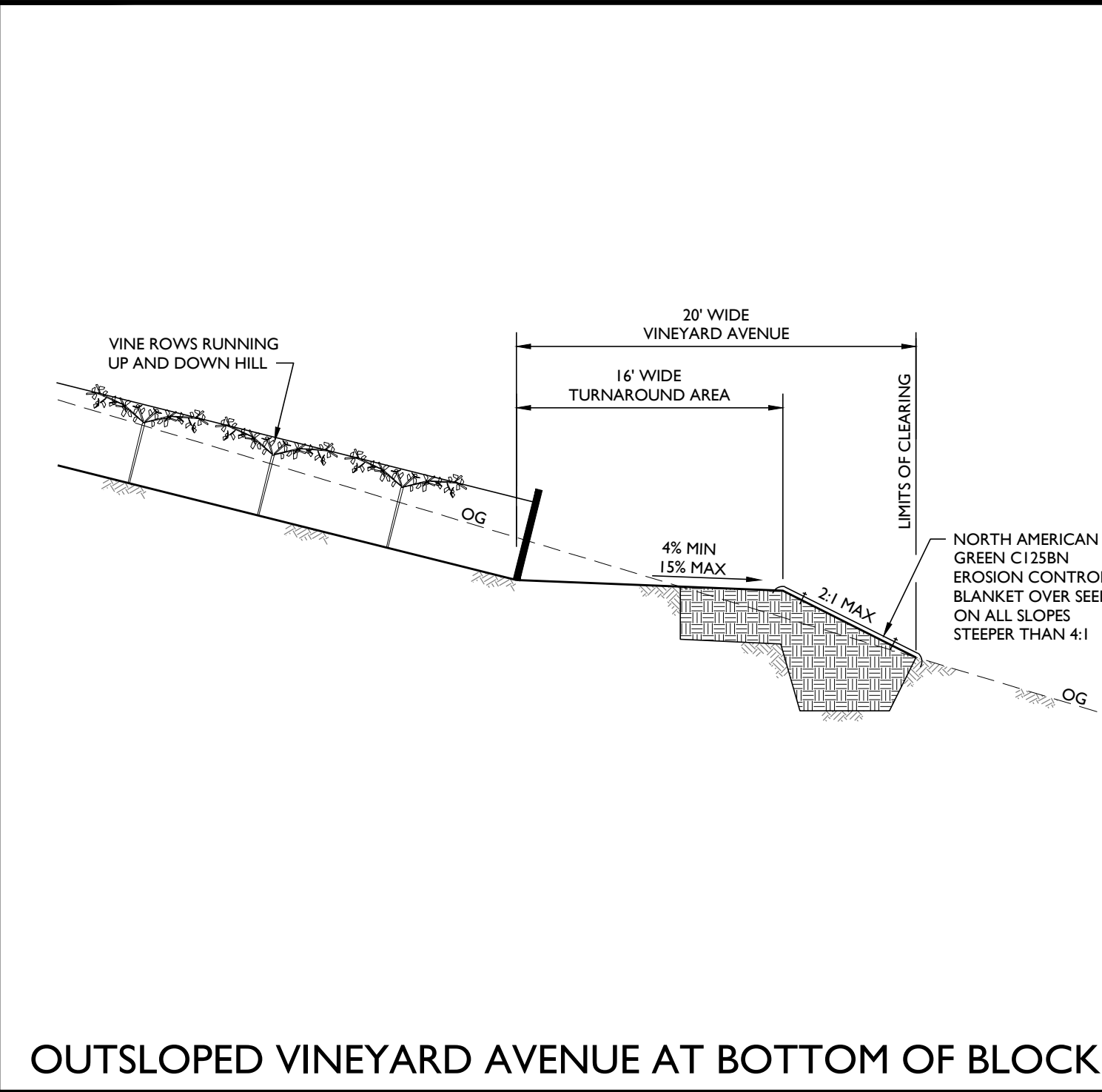
OUTSLOPED VINEYARD AVENUE AT TOP OF BLOCK DETAIL



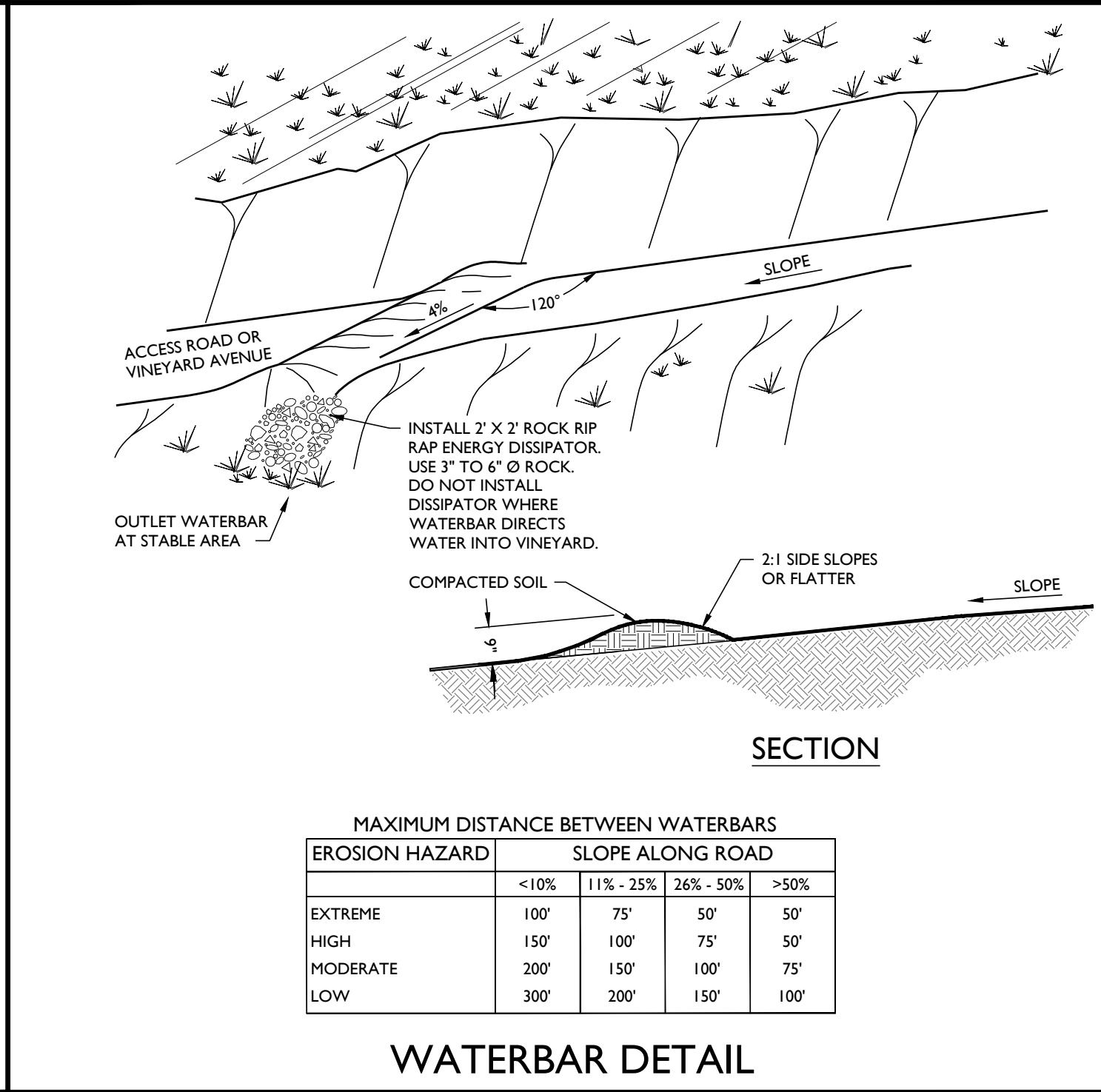
SURFACE ROUGHENING DETAIL



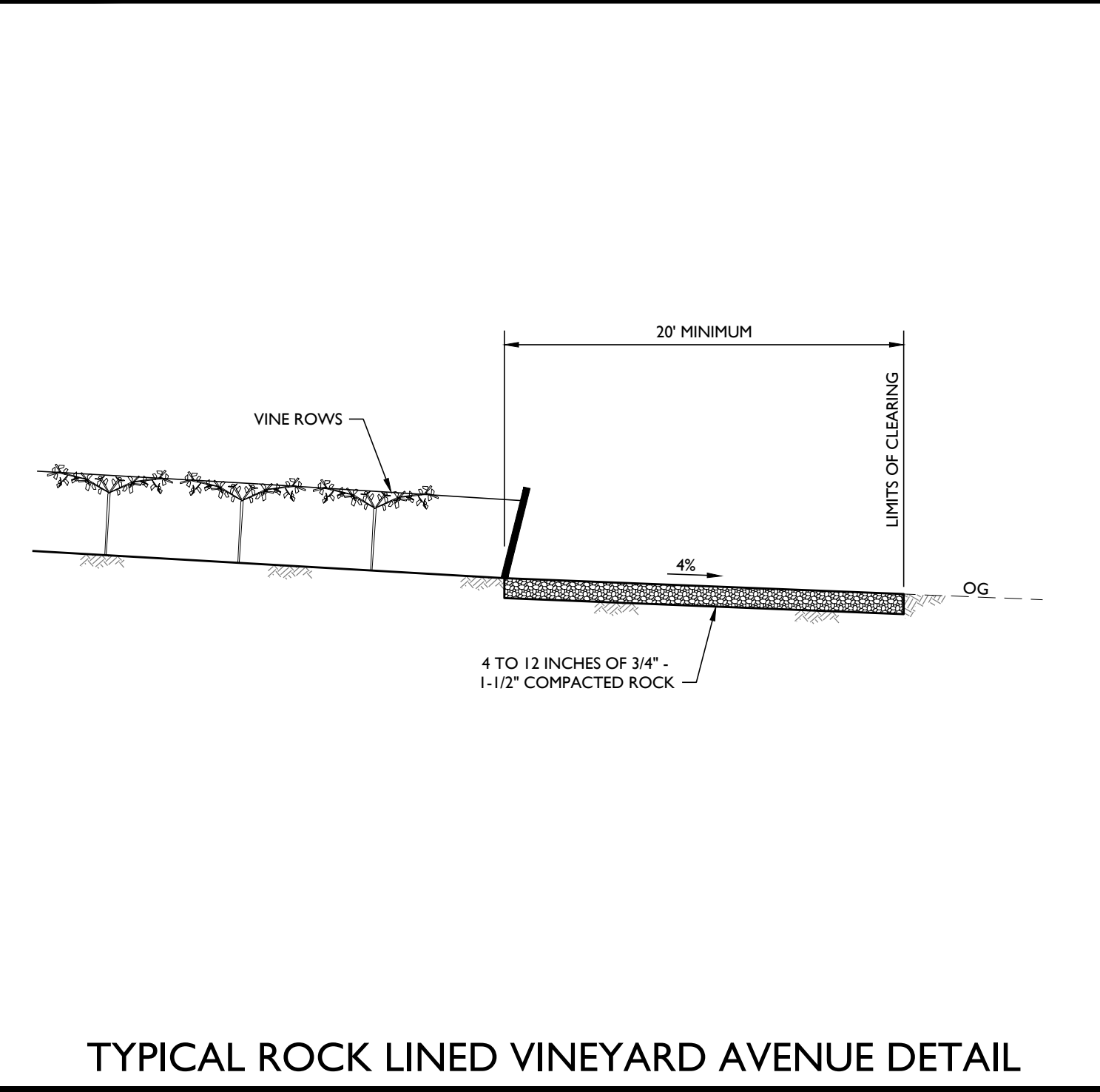
TYPICAL ACCESS ROAD DETAIL



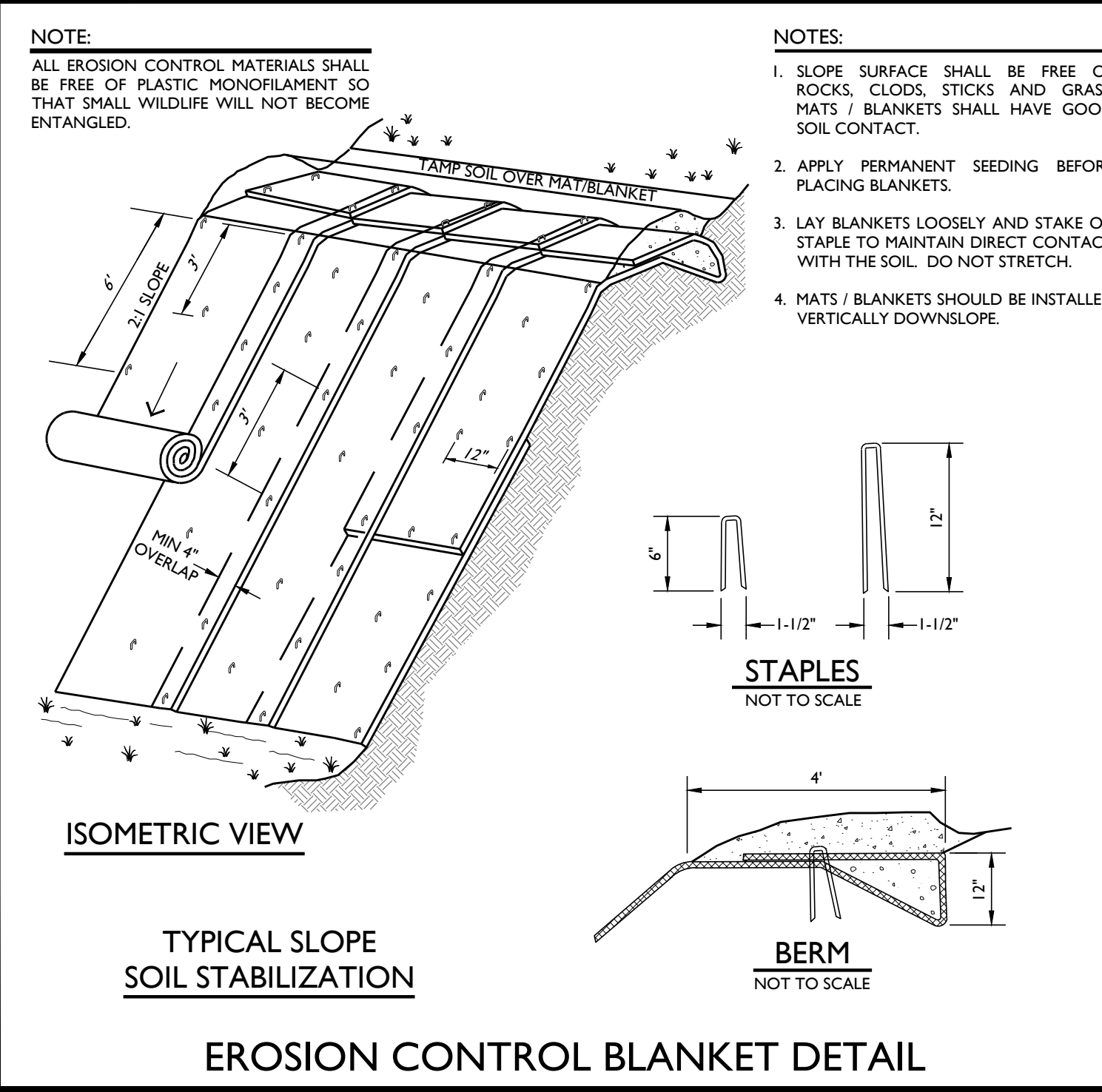
OUTSLOPED VINEYARD AVENUE AT BOTTOM OF BLOCK



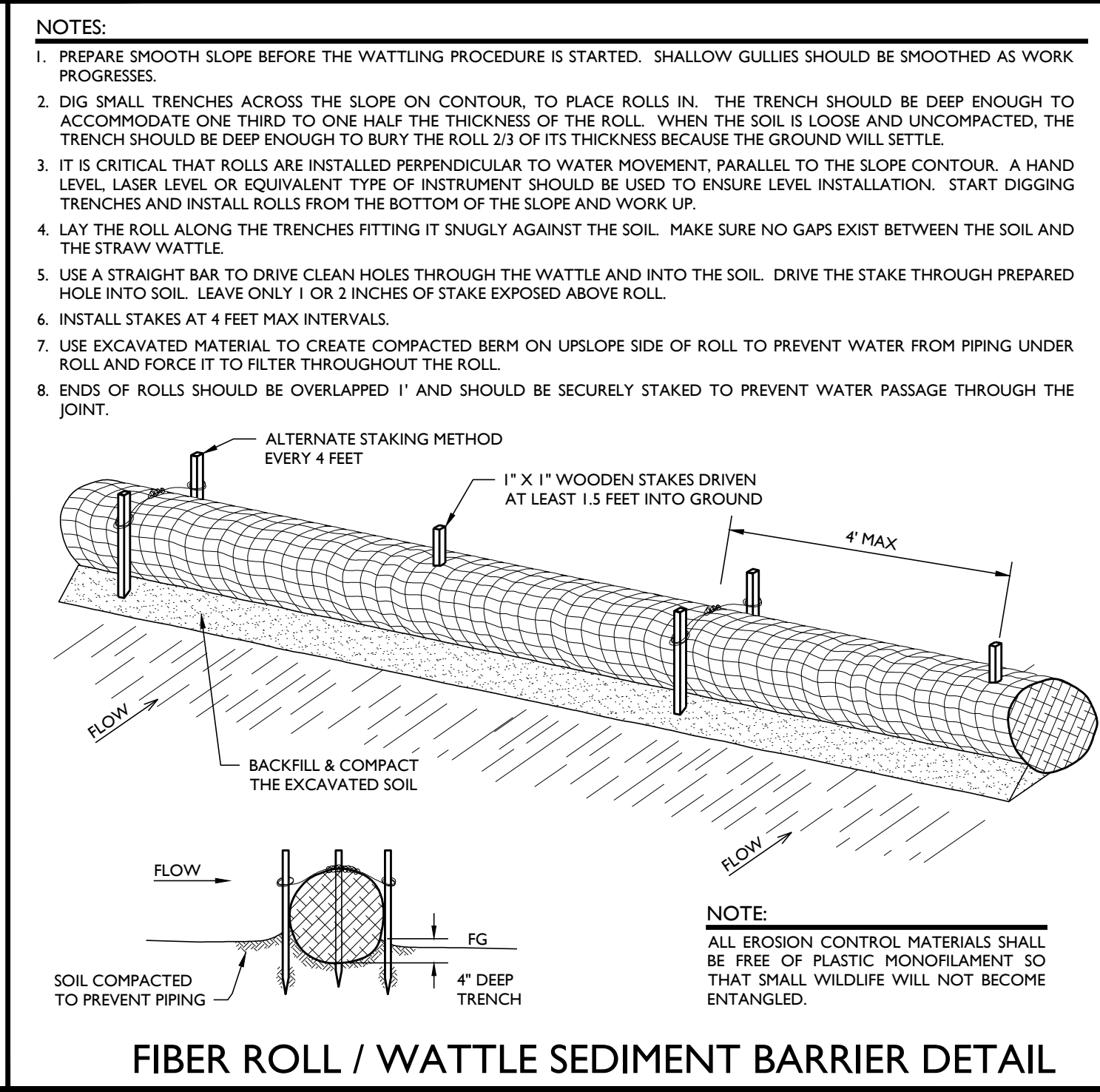
WATERBAR DETAIL



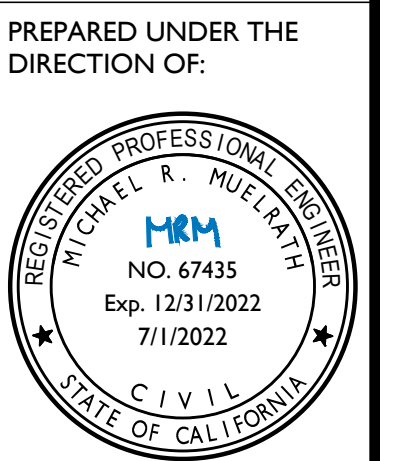
TYPICAL ROCK LINED VINEYARD AVENUE DETAIL



EROSION CONTROL BLANKET DETAIL



FIBER ROLL / WATTLE SEDIMENT BARRIER DETAIL



PREPARED UNDER THE DIRECTION OF:
DRAWN BY: PowerCAD LLC
CHECKED BY: MRM
DATE: JULY 1, 2022
REVISIONS: BY:
4/22/2022 YMS PERMIT SUBMITTAL
7/1/2022 YMS PLAN CHECK COMMENTS #1
JOB NUMBER: 21-113
FILE: 21-113ECP-DET.DWG
ORIGINAL SIZE: 24" X 36"
SHEET NUMBER: C5 OF 5