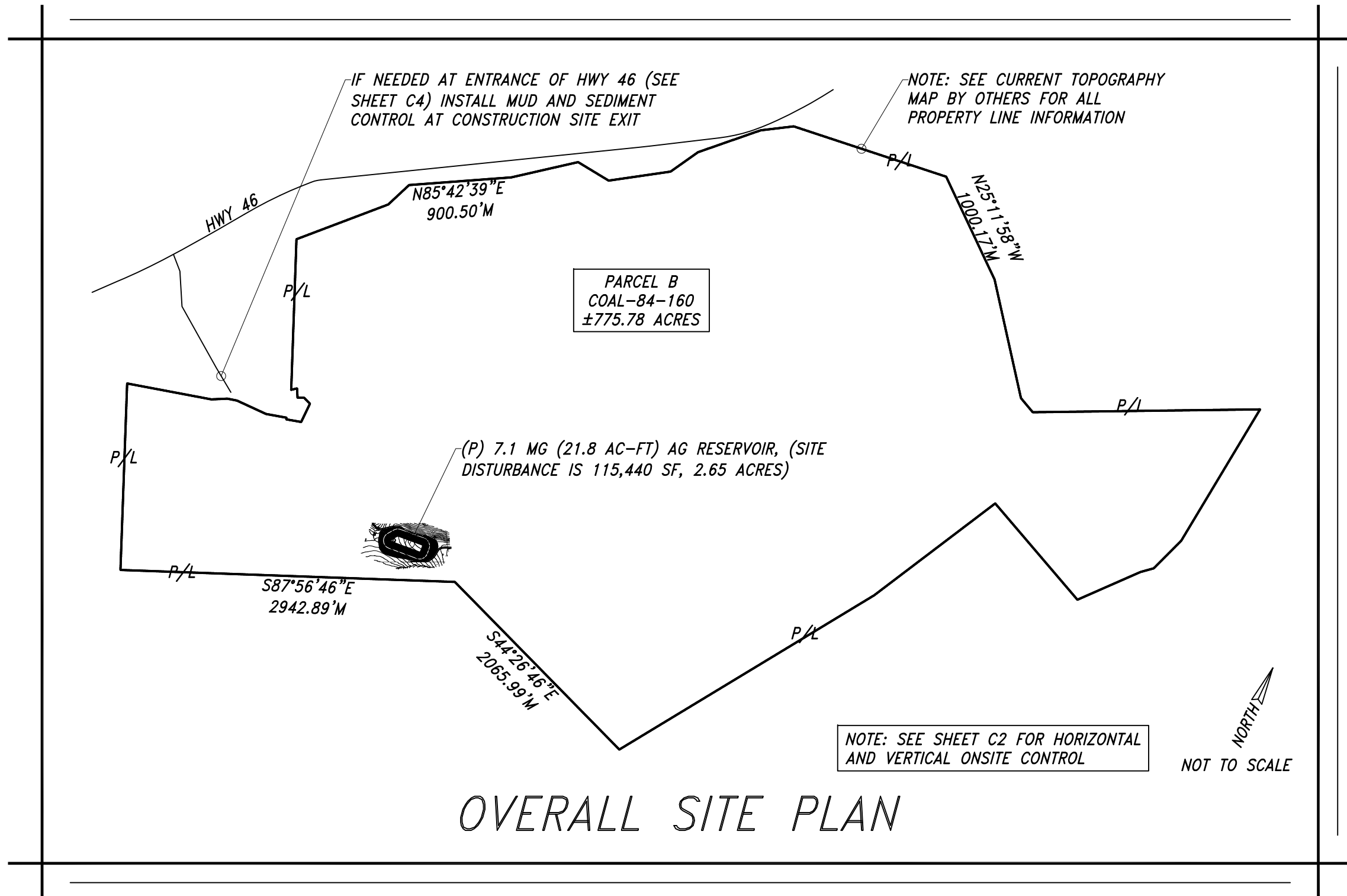


NEGRANTI GREEN VALLEY RANCH AG RESERVOIR, 7.1 MG, 21.8 AC-FT

NEGRANTI GREEN VALLEY RANCH, LLC.
6425 GREEN VALLEY ROAD, CAMBRIA
PARCEL B, COAL-84-160, 38/PM/22
APN: 046-012-001, ±775.78 ACRES



SPECIAL INSPECTIONS & REPORTS TABLE:

VERIFICATION AND INSPECTION TASK PER CALIFORNIA BUILDING CODE 1705.6 & 1803.5	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	REPORT REQUIRED
1. VERIFY MATERIALS BELOW THE EMBANKMENT BASE ARE ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY.	NO	YES	YES
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	NO	YES	YES
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	NO	YES	YES
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS' DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	YES	NO	YES
5. PRIOR TO PLACEMENT OF CONTROLLED FILL OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	NO	YES	YES
6. PROVIDE COMPACTION REPORT IN COMPLIANCE WITH CBC 1803.5.8.	NO	YES	YES
7. PRIOR TO PROJECT COMPLETION, THE SOILS ENGINEER TO PROVIDE WRITTEN VERIFICATION THAT GRADING PERFORMED IS SUITABLE TO SUPPORT THE INTENDED STRUCTURE.	NO	NO	YES
8. PRIOR TO FINAL APPROVAL, THE PROJECT ENGINEER OF WORK TO PROVIDE WRITTEN VERIFICATION THAT GRADING, DRAINAGE AND EROSION CONTROL MEASURES ARE IN SUBSTANTIAL CONFORMANCE TO THE APPROVED PLAN.	NO	NO	YES
NOTE: PRIOR TO THE COUNTY CONSTRUCTION INSPECTION, THE PROJECT SOILS ENGINEER (IDENTIFIED ON THIS SHEET) SHALL PROVIDE WRITTEN VERIFICATION (LETTER REPORT) TO THE COUNTY CERTIFYING THAT EACH TASK IDENTIFIED (TASK 1-7, ABOVE) HAS BEEN COMPLETED AND SATISFIES THE SPECIFIED REQUIREMENT. ADDITIONALLY, THE PROJECT ENGINEER OF WORK SHALL PROVIDE WRITTEN VERIFICATION TO THE COUNTY CERTIFYING THAT TASK 8, ABOVE HAS BEEN COMPLETED AND SATISFIES THE SPECIFIED REQUIREMENT.			

ABBREVIATIONS USED:

(P) = PROPOSED
(E) = EXISTING
(TYP) = TYPICAL
MG = MILLION GALLONS
AC-FT = ACRE FEET
SF = SQUARE FEET
MIN = MINIMUM
P/L = PROPERTY LINE
R/W = RIGHT OF WAY
EG = EXISTING GRADE
FG = FINISHED GRADE
F/L = FLOWLINE
LID = LOW IMPACT DEVELOPMENT
NRCS = USDA NATURAL RESOURCE CONSERVATION SERVICE

APPLICABLE CURRENT CONSTRUCTION CODES:

NO CONSTRUCTION SHALL BE STARTED WITHOUT PLANS AND PERMITS APPROVED BY THE COUNTY. ALL PLANS AND CONSTRUCTION SHALL CONFORM TO THE FOLLOWING:

- * 2016 CALIFORNIA BUILDING CODE
- * 2016 CALIFORNIA ELECTRICAL CODE
- * 2016 CALIFORNIA MECHANICAL CODE
- * 2016 CALIFORNIA PLUMBING CODE
- * 2016 CALIFORNIA REFERENCE STANDARDS
- * TITLE 22 - COUNTY LAND USE ORDINANCE
- * TITLE 23 - COUNTY COASTAL ZONE LAND USE ORDINANCE
- * CURRENT COUNTY ENGINEERING STANDARDS AND SPECIFICATIONS
- * CURRENT RECOMMENDATIONS FROM THE GEOTECHNICAL ENGINEER

SITE ARCHAEOLOGICAL DISCOVERIES:

IN THE EVENT ARCHAEOLOGICAL RESOURCES ARE UNEARTHED OR DISCOVERED DURING ANY CONSTRUCTION ACTIVITIES, THE FOLLOWING STANDARDS APPLY:

1. CONSTRUCTION ACTIVITIES SHALL CEASE, AND THE ENVIRONMENTAL COORDINATOR AND THE PLANNING AND BUILDING DEPARTMENT SHALL BE NOTIFIED SO THAT THE EXTENT AND LOCATION OF DISCOVERED MATERIALS MAY BE RECORDED BY A QUALIFIED ARCHAEOLOGIST, AND DISPOSITION OF ARTIFACTS MAY BE ACCOMPLISHED IN ACCORDANCE WITH STATE AND FEDERAL LAW.

2. IN THE EVENT ARCHAEOLOGICAL RESOURCES ARE FOUND TO INCLUDE HUMAN REMAINS, OR IN ANY OTHER CASE WHERE HUMAN REMAINS ARE DISCOVERED DURING CONSTRUCTION, THE COUNTY CORONER IS TO BE NOTIFIED IN ADDITION TO THE PLANNING AND BUILDING DEPARTMENT AND THE ENVIRONMENTAL COORDINATOR SO THAT PROPER DISPOSITION MAY BE ACCOMPLISHED.

PRE-CONSTRUCTION MEETING:

A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE COUNTY INSPECTOR TO DISCUSS THE SPECIAL INSPECTION REPORTING REQUIREMENTS, EROSION CONTROL AND REQUIRED REPORTS; CALL MICHELLE FREEMAN AT (805) 461-6199, NORTH COUNTY.

CONSTRUCTION CERTIFICATION:

1. THE GEOTECHNICAL ENGINEER SHALL PROVIDE A LETTER TO THE SAN LUIS OBISPO COUNTY PLANNING AND BUILDING DEPARTMENT THAT THE EARTHWORK WAS INSPECTED AND CONFORMS TO THE RECOMMENDATIONS IN THE GEOTECHNICAL ENGINEERING REPORT. ANY MODIFICATIONS TO THE REPORT RECOMMENDATIONS SHALL BE CLARIFIED IN THE LETTER PROVIDED.

2. THE CIVIL ENGINEER OF RECORD SHALL PROVIDE A SIGNED STATEMENT INDICATING THAT THE AG RESERVOIR WAS CONSTRUCTED IN SUBSTANTIAL CONFORMANCE TO THE APPROVED PLANS. ANY SUBSTANTIAL FIELD MODIFICATIONS MADE SHALL BE CLARIFIED IN THE WRITTEN STATEMENT.

EARTHWORK ESTIMATES:

PROJECT TOTALS:
49,812 CY OF CUT - MAX HEIGHT 39.5 FT
11,211 CY OF FILL - MAX HEIGHT 15.5 FT
NET 38,601 CY

1. CUT AND FILL ESTIMATES ARE CALCULATED AT PROFILE CENTERLINE, EXACT SHRINKAGE, CONSOLIDATION AND SUBSIDENCE FACTORS AND LOSSES DUE TO CLEARING ARE NOT INCLUDED, THE GRADING CONTRACTOR IS RESPONSIBLE TO DETERMINE EXACT QUANTITIES AND BID ACCORDINGLY.

2. ANY EXCESS MATERIAL WILL BE SPREAD AND STABILIZED ONSITE AND BE PLACED AS NON-STRUCTURAL FILL AS SHOWN.

SITE AREA OF DISTURBANCE:

TOTAL AREA OF SITE DISTURBANCE:
(P) AG RESERVOIR 115,440 SF = 2.65 ACRES

SINCE THIS IS AGRICULTURAL GRADING, THE REGIONAL WATER QUALITY CONTROL BOARD HAS DETERMINED THAT ENROLLMENT IN THE STATE CONSTRUCTION GENERAL PERMIT IS NOT REQUIRED.

BENCHMARK & BASIS OF BEARINGS:

1. THE BENCH MARK FOR THIS PROJECT IS POINT NUMBER RTCM 26 (SHP 5). MONUMENT TYPE - GPS BASE POINT, ON THE TOP OF ELECTRIC PEDESTAL AT MADONNA ROAD AND STATE HIGHWAY 101 IN SAN LUIS OBISPO. ELEVATION = 170.713', NAVD 1988), TBM AS SHOWN.

2. THE BASIS OF BEARINGS FOR THIS PROJECT IS GEODETIC NORTH FROM POINT #1200 AS SHOWN.

ENGINEERS PROJECT STATEMENT:

RECOMMENDATIONS BY THE GEOTECHNICAL ENGINEER (SPECIAL INSPECTOR) HAVE BEEN INCORPORATED BY REFERENCE AND MUST BE COMPLIED WITH FULLY DURING CONSTRUCTION AS NOTED IN THE SPECIAL INSPECTIONS AND REPORTS TABLE (SEE SHEET C1). ALL ONSITE IMPROVEMENTS WILL BE SUPERVISED BY THE GRADING CONTRACTOR OR APPROPRIATE PROFESSIONALS. NO CONSTRUCTION IS ANTICIPATED WITHIN THE PUBLIC RIGHT-OF-WAY IN CONJUNCTION WITH THIS PROJECT. THESE PLANS ARE BASED UPON OUTSOURCED INFORMATION (I.E. TOPOGRAPHY & MAPS, MUNICIPAL CODES & STANDARDS, GEOTECHNICAL REPORTS) OR OTHER PROFESSIONAL REPORTS BY OTHERS. ERIC J. GOBLER CIVIL ENGINEERING ASSUMES NO RESPONSIBILITY FOR INCORRECT OR INSUFFICIENT INFORMATION SUPPLIED TO US AT THE AT TIME OF PROJECT DESIGN OR PROJECT REVISIONS.

SCOPE OF WORK:

THIS PLAN SUPPORTS ONLY THE GRADING, DRAINAGE AND EROSION CONTROL PORTION OF THE PROPOSED AG RESERVOIR PROJECT; THE IRRIGATION AND LINER SYSTEMS ARE SEPARATE AND THE RESPONSIBILITY OF OTHERS.

1. CONSTRUCTION SHALL CONFORM TO THESE PLANS, RECOMMENDATIONS FROM THE GEOTECHNICAL ENGINEERS REPORT, COUNTY GRADING REQUIREMENTS AND ALL APPLICABLE CALIFORNIA BUILDING CODES AND COUNTY CODES, ORDINANCES AND PRACTICES.

2. INSTALL A 7.1 MG, 21.8 AC-FT AG RESERVOIR, 25 FT DEEP (2 FT FREEBOARD) DAM HEIGHT 25' MAX.

3. CONSTRUCTION OVERSIGHT WILL BE PROVIDED BY THE ENGINEER OF RECORD AND THE GEOTECHNICAL ENGINEER AND WILL INCLUDE REQUIRED COUNTY INSPECTIONS.

4. ALL PERMITTING, APPROVAL AND CONSTRUCTION OVERSIGHT SHALL CONFORM TO THE GRADING PERMIT ISSUED BY THE COUNTY PLANNING AND BUILDING DEPARTMENT.

5. THE DETAILS OF THE IRRIGATION (PUMPING, PIPING & ELECTRICAL) SYSTEM ARE THE RESPONSIBILITY OF THE IRRIGATION CONSULTANT AND THE OWNER. CONSTRUCTION LAYOUT AND DETAILS ARE NOT A PART OF THIS PLAN.

6. THE DETAILS OF THE LINER SYSTEM ARE THE RESPONSIBILITY OF THE LINER CONSULTANT, MANUFACTURER, AND/OR THE OWNER. CONSTRUCTION LAYOUT AND DETAILS ARE NOT A PART OF THIS PLAN.

AG RESERVOIR SAFETY NOTES:

1. THE PROPERTY OWNER OR PROJECT MANAGER SHALL INSTALL A SAFETY ROPE SYSTEM VISIBLY MARKED WITH SIGNAGE AT STRATEGIC LOCATIONS AROUND THE AG RESERVOIR TO ENSURE THAT PEOPLE CAN EXIT THE POND SAFELY IN THE EVENT OF AN ACCIDENTAL FALL IN.

2. ALL PERSONNEL THAT WORK AROUND THE AG RESERVOIR SHOULD BE INFORMED AND PROPERLY TRAINED IN SAFETY PRACTICES AND PROCEDURES OF THE SAFETY ROPE SYSTEM.

THIS AG RESERVOIR IS "NON-JURISDICTIONAL" WITH THE CALIFORNIA DIVISION OF SAFETY OF DAMS, SINCE THE CAPACITY IS LESS THAN 50 AC-FT (7.1 MG, 21.8 AC-FT ACTUAL) AND THE DAM HEIGHT DOES NOT EXCEED 25 FT (25' ACTUAL)

N.R.C.S. PRACTICES CONSIDERED:

- #378 - POND
- #342A&B - CRITICAL AREA PLANTING
- #402 - DAM
- #436 - IRRIGATION RESERVOIR
- #521A - POND SEALING OR LINING
- #570 - STORM WATER RUNOFF CONTROL
- #578 - CULVERT CROSSING
- #903 - EARTH FILL
- #907 - ROCK RIP-RAP
- TR-60 - TECHNICAL RELEASE 60 (EARTH DAMS & RESERVOIRS)

NOTE: THIS PROJECT HAS BEEN DESIGNED CONSIDERING THE ABOVE N.R.C.S. PRACTICES AS WELL AS SLO COUNTY ORDINANCES AND STANDARD ENGINEERING PRACTICES, AND RECOMMENDATIONS FROM THE GEOTECHNICAL ENGINEER.

OWNER:

NEGRANTI GREEN VALLEY RANCH, LLC.
6425 GREEN VALLEY ROAD
CAMBRIA, CA. 93428
(805) 927-8000

ENGINEER OF RECORD:

ERIC J. GOBLER, P.E.
LIC. #C30438
9110 ATASCADERO AVENUE
SAN LUIS OBISPO, CA. 93401
(805) 543-8539
Info@geosolutions.net
JOB # SL10962-1 & SL10962-2
DATED: 11-13-18
egcivlpe@gmail.com

POND LINER CONSULTANT:

TO BE DETERMINED

CONTRACTOR:

TO BE DETERMINED

RANCH MANAGER:

DUSTIN HAUGE
NEGRANTI GREEN VALLEY RANCH, LLC.
6425 GREEN VALLEY ROAD
CAMBRIA, CA. 93428
(805) 395-0900
dustin.hauge@gmail.com

GEOTECHNICAL ENGINEER:

GEO SOLUTIONS INC.
220 HIGH STREET
SAN LUIS OBISPO, CA. 93401
(805) 543-8539
Info@geosolutions.net
JOB # SL10962-1 & SL10962-2
DATED: 11-13-18

SHEET INDEX:

C1	TITLE SHEET, OVERALL SITE PLAN, VICINITY MAP, CONSTRUCTION AND SITE REPORTS
C2	AG RESERVOIR GRADING, DRAINAGE AND HORIZONTAL CONTROL PLAN
C3	AG RESERVOIR PROFILES
C4	EROSION, SEDIMENT AND ENVIRONMENTAL CONTROL PLAN
C5	EROSION, SEDIMENT AND ENVIRONMENTAL CONTROL NOTES AND DETAILS
C6	CONSTRUCTION NOTES AND SITE DETAILS

REVISIONS

- 1
- 2
- 3

PROPRIETARY NOTES:

THESE PLANS, SPECIFICATIONS AND DESIGNS ARE INSTRUMENTS OF WORK AND SERVICES PREPARED FOR THIS PROJECT BY ERIC J. GOBLER CIVIL ENGINEERING. NO PART OF THESE PLANS SHALL BE USED IN PART OR IN WHOLE FOR ANY OTHER PROJECT UNLESS WRITTEN CONSENT IS OBTAINED FROM ERIC J. GOBLER, CIVIL ENGINEER.

MBS LANDSURVEYS
MICHAEL B. STANTON
mbs@mbslandsurveys.com
3563 SUELDO STREET, SUITE Q
SAN LUIS OBISPO, CA 93401
OFFICE (805) 594-1960
FAX (805) 594-1966
CELL (805) 440-4215
DATED: 12-11-18

TOPOGRAPHIC SURVEY BY:

ERIC J. GOBLER, P.E.
LIC. #C30438
9110 ATASCADERO AVENUE
ATASCADERO, CA. 93422
(805) 459-3268 CELL
egcivlpe@gmail.com

ENGINEER OF WORK:

ERIC J. GOBLER, P.E.
LIC. #C30438
9110 ATASCADERO AVENUE
ATASCADERO, CA. 93422
(805) 459-3268 CELL
egcivlpe@gmail.com

PROJECT DESCRIPTION:

NEGRANTI, 6425 GREEN VALLEY RD, CAMBRIA
PARCEL B, APN: 046-012-001, ±775.78 ACRES

SHEET DESCRIPTION:

TITLE SHEET, OVERALL SITE PLAN, VICINITY MAP,
CONSTRUCTION AND SITE REPORTS

DESIGN/DRAWN:

BOB LIVERA

JOB NUMBER:

18-048

CALIFORNIA COORDINATES:

N

COUNTY PLAN CHECKER:

ERIC J. GOBLER, P.E.
LIC. #C30438
9110 ATASCADERO AVENUE
ATASCADERO, CA. 93422
(805) 459-3268 CELL
egcivlpe@gmail.com

APPROVING ENGINEER FOR COUNTY REQUIREMENTS

ERIC J. GOBLER, P.E. 30438 EXP. 03/31/20

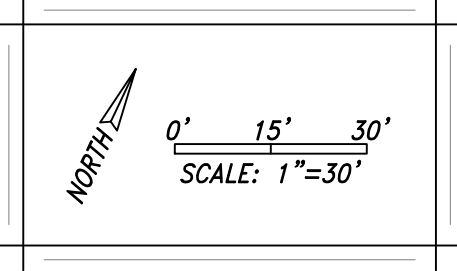
CO. PERMIT NUMBER:

4-15-19

DATED:

C1

NEGRANTI GREEN VALLEY RANCH AG RESERVOIR
7.1 MG (21.8 AC-FT), 25 FT DEEP (2 FT FREEBOARD)
RESERVOIR TOP EL 683.0
HIGH WATER SURFACE EL 681.0
RESERVOIR BOTTOM EL 656.0
DAM HEIGHT 25'



AG RESERVOIR GRADING, DRAINAGE AND HORIZONTAL CONTROL PLAN:

NEGRANTI GREEN VALLEY RANCH AG RESERVOIR
7.1 MG (21.8 AC-FT), 25 FT DEEP (2 FT FREEBOARD)
RESERVOIR TOP EL 683.0
HIGH WATER SURFACE EL 681.0
RESERVOIR BOTTOM EL 656.0
DAM HEIGHT 25'

Site	Stratum	Surf1	Surf2	Site Volume Table: Unadjusted		Method
				Cut (CY)	Fill (CY)	
NEGRANTI GREEN VALLEY RANCH				49,812	11,211	Composite

NOTE: THIS DOES NOT ACCOUNT FOR SOIL LOSS RESULTING FROM COMPACTION (30-40% ESTIMATED)

CONSTRUCTION NOTES:

1. ALL AG RESERVOIR CONSTRUCTION, RESERVOIR PAD PLACEMENT AND ALL ENGINEERED AND COMPACTED FILL SLOPES SHALL CONFORM TO RECOMMENDATIONS MADE BY AND UNDER THE DIRECTION OF THE GEOTECHNICAL ENGINEER (SPECIAL INSPECTOR) AND TO BE IN FULL COMPLIANCE WITH THE SPECIAL INSPECTIONS AND REPORTS TABLE (SEE SHEET C1).
2. IF ANY ADDITIONAL SOIL IS NEEDED TO COMPLETE ANY FILL SLOPES THE SOIL WILL BE BORROWED ONSITE. THE SOILS ENGINEER SHALL APPROVE ALL FILL MATERIALS, INCLUDING ONSITE BORROW SOILS. ANY EXCESS SOIL NEEDED WILL BE DISTRIBUTED ONSITE AS INDICATED ON THESE PLANS.
3. ALL SURFACE DRAINAGE SHALL FOLLOW THE APPROXIMATE PATHWAYS SHOWN ON THESE PLANS.

AG RESERVOIR SAFETY NOTES:

1. THE PROPERTY OWNER OR PROJECT MANAGER SHALL INSTALL A SAFETY ROPE SYSTEM VISIBLY MARKED WITH SIGNAGE AT STRATEGIC LOCATIONS AROUND THE AG RESERVOIR TO ENSURE THAT PEOPLE CAN EXIT THE POND SAFELY IN THE EVENT OF AN ACCIDENTAL FALL IN.
2. ALL PERSONNEL THAT WORK AROUND THE AG RESERVOIR SHOULD BE INFORMED AND PROPERLY TRAINED IN SAFETY PRACTICES AND PROCEDURES OF THE SAFETY ROPE SYSTEM.

EMERGENCY OVERFLOW:

1. AS SHOWN ON THIS SHEET, AN 18" PVC PIPE WILL PROVIDE MEANS FOR EMERGENCY OVERFLOW.
2. THE ONLY WATER INFLOW SOURCES ARE DIRECT RAINFALL AND THE SUPPLY PIPELINE. ALL SURFACE RUNOFF IS DIRECTED AROUND THE RESERVOIR.

PIPE SIZING:

100-YR RAINFALL EVENT => 5.0 IN/HR (~28 IN/YR ANNUAL)
RESERVOIR SUPPLY => 100 gpm (MAX) = 0.22 CFS
RESERVOIR SURFACE AREA => 62,140 SF
PIPE SIZE (D) => 18" PVC
PIPE SLOPE (S) => 11'/50' = 0.22
FRICTION COEFFICIENT (n) => 0.012 (PVC)

MANNING EQUATION:

$$D = [2.159 (Q)(n) / S^{0.5}]^{0.375} \text{ WHERE } Q=\text{DESIGN FLOW (CFS)}$$

$n = 0.12; S = 0.22$

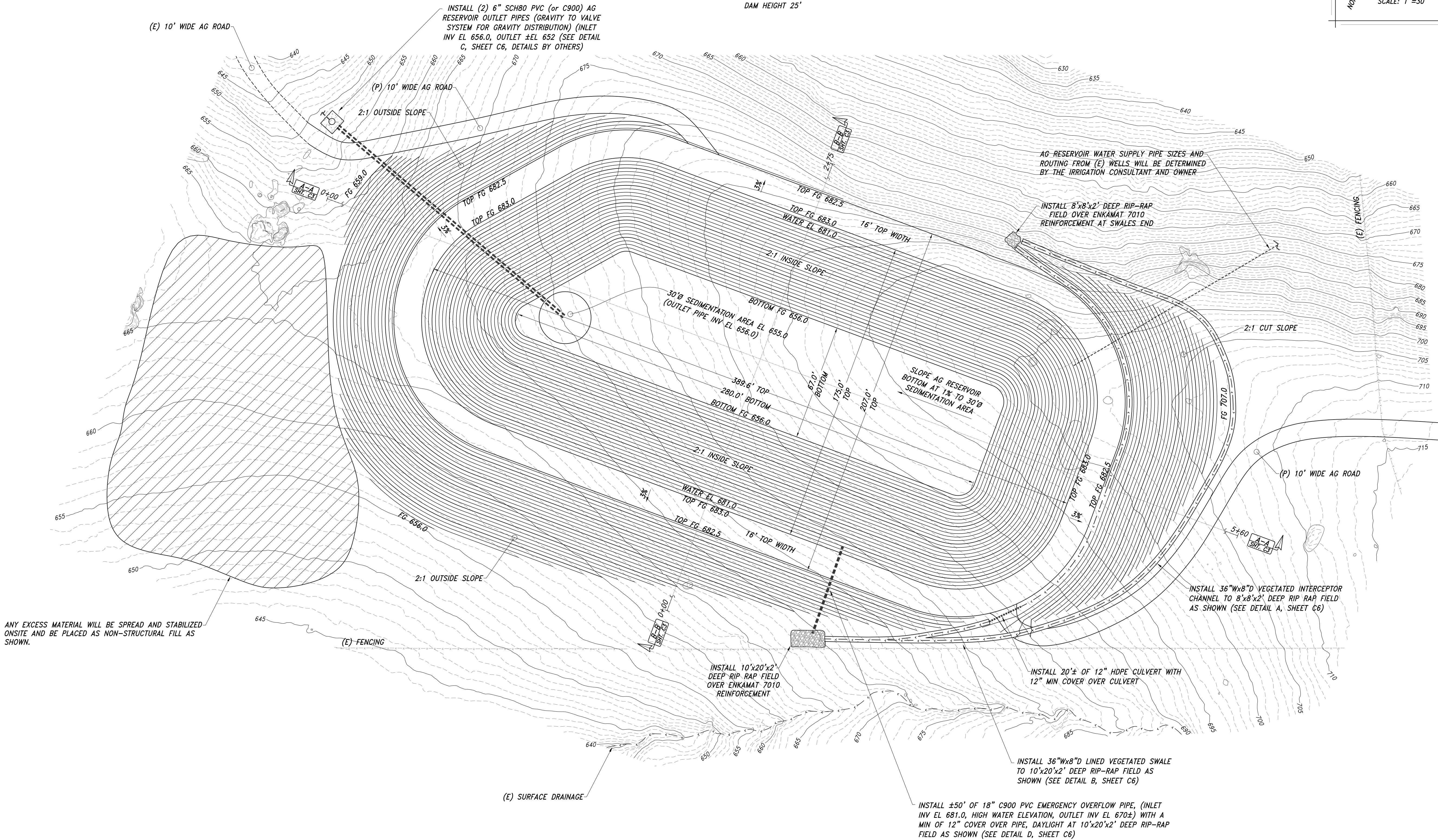
$Q = 100\text{-YR RAINFALL (Q1)} + \text{MAXIMUM PUMPING RATE (Q2)}$
 $Q1 = (5.0 \text{ IN/HR})(62,140 \text{ SF})(1 \text{ FT/12 IN})(1 \text{ HR/3600 SEC})$
 $Q1 = 7.2 \text{ CFS}$
 $Q2 = 0.22 \text{ CFS}$
 $Q = 7.2 + 0.22 = 7.42 \text{ CFS}$

THUS, THE MINIMUM PIPE DIAMETER NEEDED TO SAFELY CONVEY EMERGENCY FLOW CONDITIONS IS:

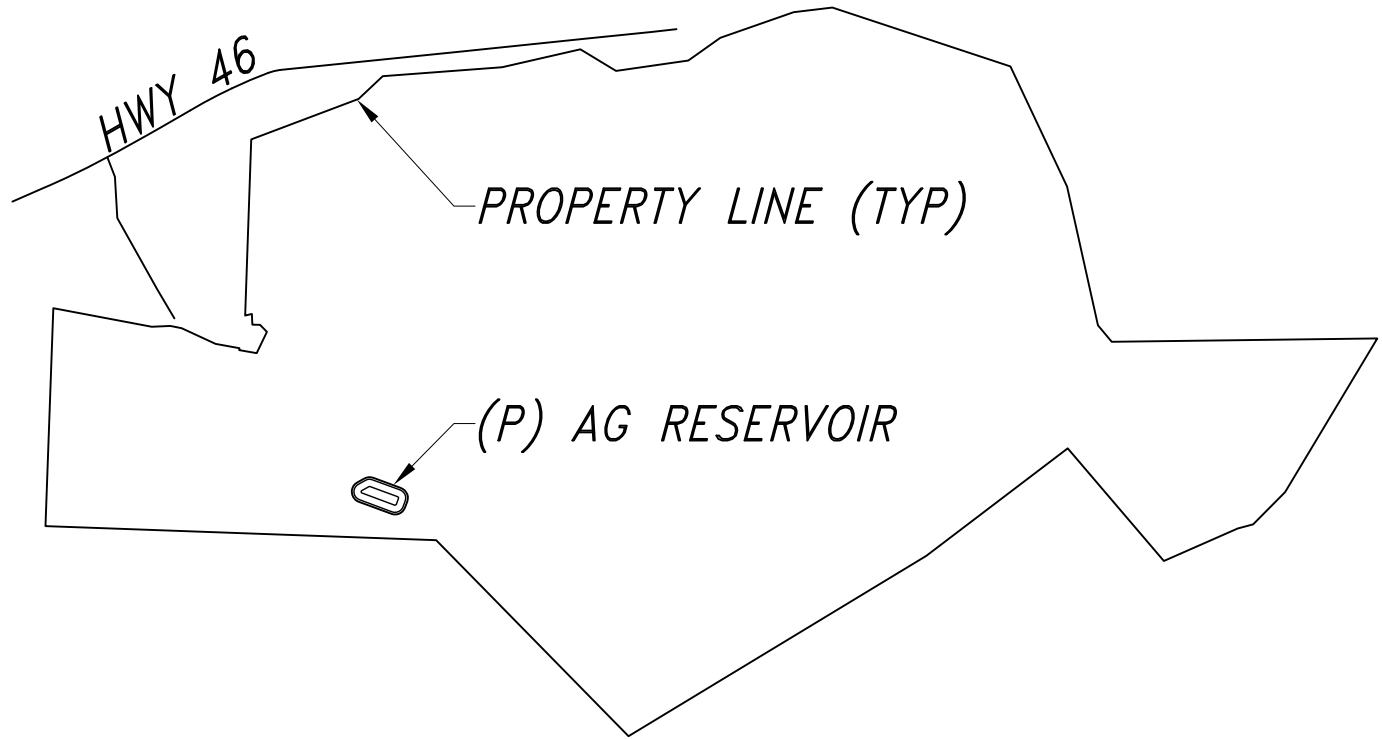
$$D = [2.159 (7.42) (0.012) / (0.22)^{0.5}]^{0.375}$$

$D = 0.72 \text{ FT} = 9 \text{ IN (MIN)}$

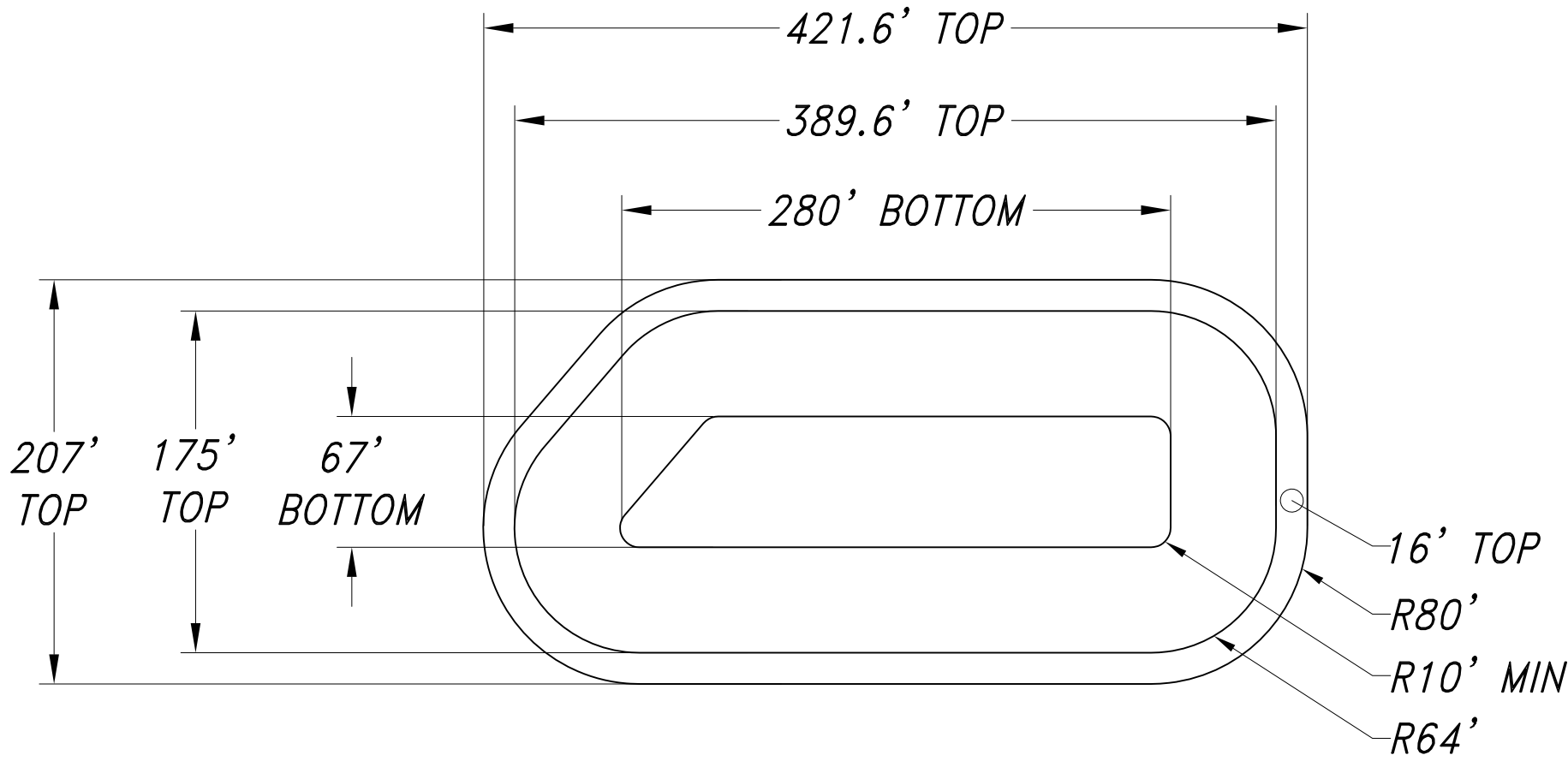
SINCE THE 18" OVERFLOW PIPE IS GREATER THAN THE 9" MIN NEEDED, THE 18" EMERGENCY OVERFLOW PIPE IS ADEQUATE AND PROVIDES AMPLE SAFETY.



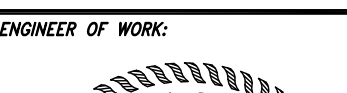
ANY EXCESS MATERIAL WILL BE SPREAD AND STABILIZED ONSITE AND BE PLACED AS NON-STRUCTURAL FILL AS SHOWN.



AG RESERVOIR SITE LOCATION



HORIZONTAL CONTROL

REVISIONS		TOPOGRAPHIC SURVEY BY:	ENGINEER OF WORK:	PROJECT DESCRIPTION:	
1		MBS LANDSURVEYS		NEGRANTI, 6425 GREEN VALLEY RD, CAMBRIA	
2		MICHAEL B. STANTON		PARCEL B, APN: 046-012-001, ±775.78 ACRES	
3		mike@mbslandsurveys.com		AG RESERVOIR GRADING, DRAINAGE	
		3563 SUELDO STREET, SUITE Q		AND HORIZONTAL CONTROL PLAN	
		SAN LUIS OBISPO, CA 93401		PLAN #4	
PROPRIETARY NOTES:		OFFICE (805) 594-1960	APRIL 2019		
THESE PLANS, SPECIFICATIONS AND DESIGNS ARE INSTRUMENTS OF WORK AND ARE HEREBY OFFERED FOR THIS PROJECT BY ERIC J. GOBLER, CIVIL ENGINEERING. NO PART OF OR IN WHOLE FOR ANY OTHER PROJECT UNLESS WRITTEN CONSENT IS OBTAINED FROM ERIC J. GOBLER, CIVIL ENGINEER.		FAX (805) 594-1966			
		CELL (805) 440-4215			
DATED: 12-11-18					

DESIGN/DRAWN:		COUNTY PLAN CHECKER:	APPROVING ENGINEER FOR COUNTY REQUIREMENTS		DATED:
Job: Liviana				4-15-19	
JOB NUMBER:		CO. PERMIT NUMBER:	ERIC J. GOBLER, PCE 30438 EXP. 03/31/20		DATED:
18-048					
CALIFORNIA COORDINATES:				SHEET:	
N				E	
				C2	

PROPOSED AG RESERVOIR PROFILES:

Site Volume Table: Unadjusted							
Site	Stratum	Surf1	Surf2	Cut (CY)	Fill (CY)	Net (CY)	Method
=====							
NEGRANTI GREEN VALLEY RANCH				49,812	11,211	38,601	Composite
NOTE: THIS DOES NOT ACCOUNT FOR SOIL LOSS RESULTING FROM COMPACTION (30-40% ESTIMATED)							

AG RESERVOIR SAFETY NOTES:

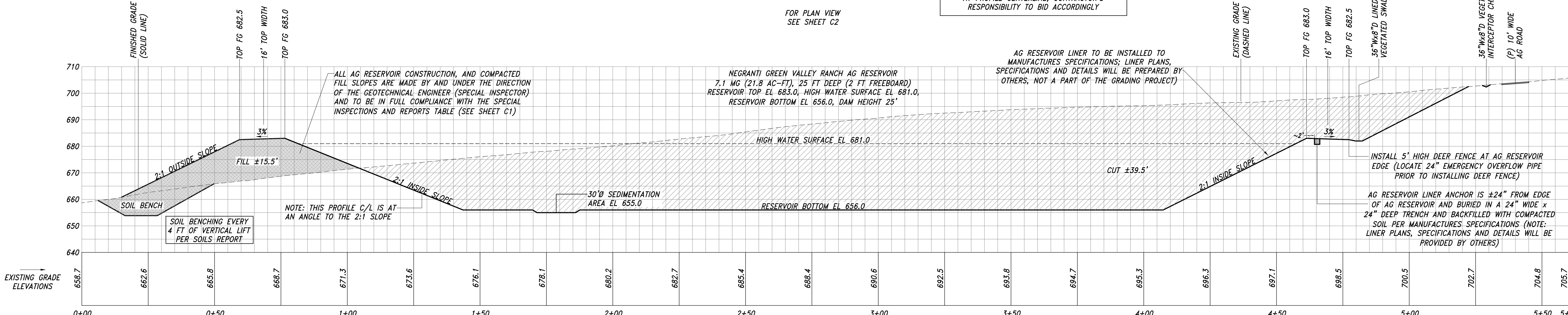
1. THE PROPERTY OWNER OR PROJECT MANAGER SHALL INSTALL A SAFETY ROPE SYSTEM VISIBLY MARKED WITH SIGNAGE AT STRATEGIC LOCATIONS AROUND THE AG RESERVOIR TO ENSURE THAT PEOPLE CAN EXIT THE POND SAFELY IN THE EVENT OF AN ACCIDENTAL FALL IN.
2. ALL PERSONNEL THAT WORK AROUND THE AG RESERVOIR SHOULD BE INFORMED AND PROPERLY TRAINED IN SAFETY PRACTICES AND PROCEDURES OF THE SAFETY ROPE SYSTEM.

AG RESERVOIR PROFILE A-A

HORIZ. SCALE: 1"=20'
VERT. SCALE: 1"=20'

FOR PLAN VIEW
SEE SHEET C2

NOTE: CUT AND FILL ESTIMATES ARE CALCULATED
AT PROFILE CENTERLINE, CONTRACTOR'S
RESPONSIBILITY TO BID ACCORDINGLY

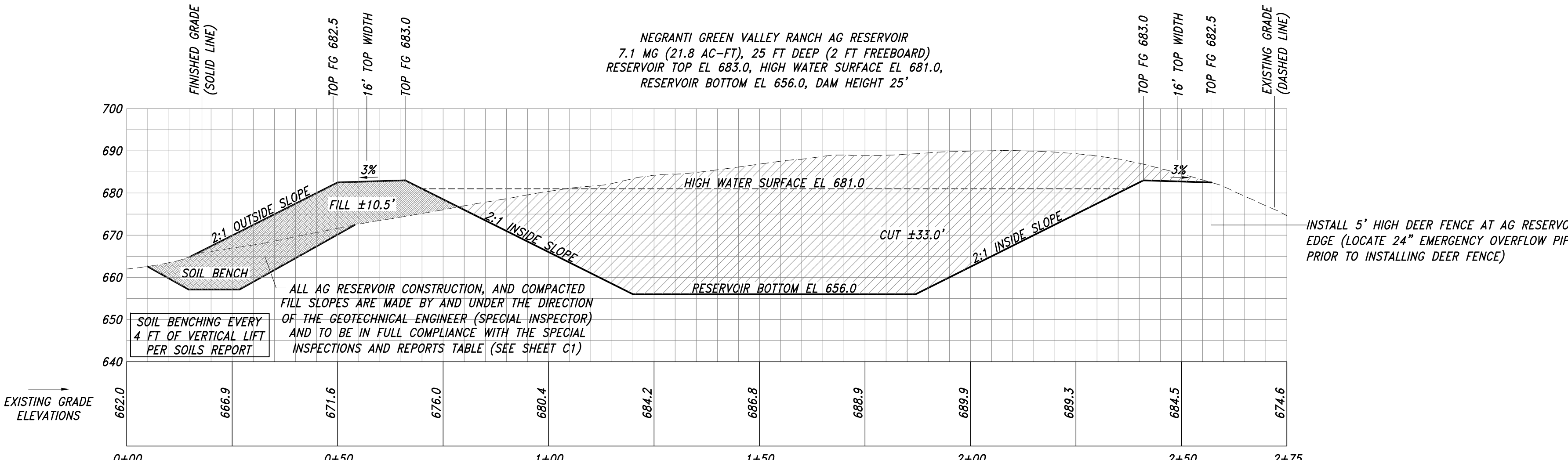


AG RESERVOIR PROFILE B-B

HORZ. SCALE: 1"=20'
VERT. SCALE: 1"=20'

FOR PLAN VIEW
SEE SHEET C2

NOTE: CUT AND FILL ESTIMATES ARE CALCULATED
AT PROFILE CENTERLINE, CONTRACTOR'S
RESPONSIBILITY TO BID ACCORDINGLY



REVISIONS
1
2
3

PROPRIETARY NOTES:
THESE PLANS, SPECIFICATIONS AND DESIGNS ARE THE PROPERTY OF ERIC J. GOBLER CIVIL ENGINEERING, INC. NO PART OF THESE PLANS SHALL BE USED IN PART OR IN WHOLE FOR ANY OTHER PROJECT UNLESS WRITTEN CONSENT IS OBTAINED FROM ERIC J. GOBLER, CIVIL ENGINEER.

TOPOGRAPHIC SURVEY BY:

MBS LANDSURVEYS
MICHAEL B. STANTON
mike@mbslandsurveys.com
3563 SUELDO STREET, SUITE
SAN LUIS OBISPO, CA 93401

OFFICE (805) 594-1960
FAX (805) 594-1966
CELL (805) 440-4215

ENGINEER OF WORK:

STATE OF CALIFORNIA
ERIC J. GOBLER
e/jg
No. C 30438
Exp. 3/31/20
REGISTERED PROFESSIONAL ENGINEER
CIVIL

ERIC J. GOBLER, P.E.
LIC. #C30438
9110 ATASCADERO AVENUE
ATASCADERO, CA. 93426
(805) 459-3268 CELL
egcivlpe@gmail.com



PROJECT DESCRIPTION:		NEGRANTI, 6425 GREEN VALLEY RD, CAMBRIA PARCEL B, APN: 046-012-001, ±775.78 ACRES	
SHEET DESCRIPTION:		AG RESERVOIR PROFILES	
DESIGN/DRAWN: Sara Kishore	COUNTY PLAN CHECKER:	APPROVING ENGINEER FOR COUNTY REQUIREMENTS	
JOB NUMBER: 18-048	CO. PERMIT NUMBER:	4-15-19	
CALIFORNIA COORDINATES:		ERIC J. GOBLER, LSC 50458 EXP. 03/31/20	
		SHEET: 02	

EROSION, SEDIMENT AND ENVIRONMENTAL CONTROL NOTES AND DETAILS:

TEMPORARY EROSION AND ENVIRONMENTAL CONTROL MEASURES:

1. ALL TEMPORARY EROSION, SEDIMENT AND ENVIRONMENTAL CONTROL MEASURES MUST BE IN PLACE, FUNCTIONAL, MAINTAINED AND MONITORED BY THE OWNER, GENERAL CONTRACTOR OR GRADING CONTRACTOR.
2. THE TEMPORARY EROSION, SEDIMENT AND ENVIRONMENTAL CONTROL MEASURES SHOWN ON THESE PLANS ARE TO BE IMPLEMENTED AS NECESSARY TO ENSURE REDUCED POLLUTANT RELEASES AND MINIMIZE POTENTIAL ENVIRONMENTAL IMPACTS OF THE PROJECT. ALL PROPOSED ENVIRONMENTAL CONTROL MEASURES AND LOCATIONS ARE SHOWN ON THE PROPOSED EROSION CONTROL PLAN. THE IMPLEMENTATION OF ALL ENVIRONMENTAL CONTROL MEASURES MAY NOT BE NECESSARY (e.g. IF ONSITE EQUIPMENT FUELING DOES NOT OCCUR, THEN A FUELING AREA WILL NOT BE NEEDED). THE FOLLOWING PEOPLE LISTED BELOW ARE RESPONSIBLE TO INSTALL, MONITOR AND MAINTAIN ALL TEMPORARY EROSION, SEDIMENT AND ENVIRONMENTAL CONTROL MEASURES.

OWNER:

NEGRANTI GREEN VALLEY RANCH, LLC.
6425 GREEN VALLEY ROAD
CAMBRIA, CA. 93428
(805) 927-8000

RANCH MANAGER:

DUSTIN HAUGE
NEGRANTI GREEN VALLEY RANCH, LLC.
6425 GREEN VALLEY ROAD
CAMBRIA, CA. 93428
(805) 395-0900
dustin.hauge@gmail.com

PERMANENT EROSION AND SEDIMENT CONTROL MEASURES:

1. UPON PROJECT COMPLETION, THE OWNER REMAINS RESPONSIBLE TO MONITOR AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES TO ENSURE ONGOING SITE STABILITY AND TO REDUCE SEDIMENT (AND OTHER POLLUTANTS) FROM MIGRATING OFFSITE.
2. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES INCLUDE BUT ARE NOT LIMITED TO VEGETATION PLACED ON ALL DISTURBED SOIL AREAS, LANDSCAPED AND DEPRESSED INFILTRATION AREAS, STORM DRAIN INLET PROTECTION, PIPING THAT CARRIES STORMWATER TO INFILTRATION AND/OR DISPERSION AREAS, RIP-RAP DISPERSION AREAS, ETC.

SEED MIX REQUIREMENT NOTE:

ALL DISTURBED NATIVE SOIL SURFACES CAN BE HAND SEEDED OR HYDROSEEDED WITH:

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1. WRITTEN VERIFICATION MUST BE PROVIDED BY THE OWNER, GENERAL CONTRACTOR OR GRADING CONTRACTOR TO THE COUNTY TO ENSURE THAT THE TEMPORARY EROSION, SEDIMENT AND ENVIRONMENTAL CONTROL DEVICES ARE IN PLACE, FUNCTIONAL, MAINTAINED, MONITORED (BEFORE AND AFTER EACH STORM EVENT) AND IF NEEDED ARE ABLE TO MAKE ANY NECESSARY CHANGES OR ADJUSTMENTS (ONSITE AND OFFSITE) TO MINIMIZE ENVIRONMENTAL IMPACTS.
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3. THE OWNER SHALL MONITOR THE WEATHER FORECAST FOR STORM EVENTS ALL YEAR LONG AND PARTICULARLY DURING THE RAINY SEASON (OCT. 15 - APRIL 15). ALL TEMPORARY EROSION, SEDIMENT AND ENVIRONMENTAL CONTROL MEASURES SHALL BE INSTALLED 48 HRS PRIOR TO A PREDICTED RAINFALL EVENT WITH A POTENTIAL TO PRODUCE 0.5" OF RAINFALL OR MORE. PROVISIONS FOR SEEDING AND WATERING MUST BE IMPLEMENTED PRIOR TO THE WET SEASON TO ENSURE VEGETATION ESTABLISHMENT. IN THE EVENT WHERE CONSTRUCTION AND RAINFALL TIMING DO NOT PERMIT VEGETATION ESTABLISHMENT, OTHER EROSION, SEDIMENT AND ENVIRONMENTAL CONTROL MEASURES MUST BE IMPLEMENTED (e.g. STRAW OR OTHER MULCHING, STRAW WATTLES, SILT FENCING, EROSION CONTROL BLANKETS, etc.).
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1. THE PROJECT SHALL COMPLY WITH ALL APPLICABLE AIR POLLUTION CONTROL DISTRICT REGULATIONS PERTAINING TO THE CONTROL OF FUGITIVE DUST (PM-10) AS CONTAINED IN SECTION 2, ASSESSING AND MITIGATING CONSTRUCTION IMPACTS.

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SECTION 2.3.2 BEST AVAILABLE TECHNOLOGY FOR CONSTRUCTION EQUIPMENT

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- A DUST CONTROL MANAGEMENT PLAN THAT ENCOMPASSES ALL, BUT IS NOT LIMITED TO, DUST CONTROL MEASURES THAT WERE LISTED IN THE "DUST CONTROL" MEASURES OF THE SLO CO APCD CEQA AIR QUALITY HANDBOOK
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- PHASE CONSTRUCTION ACTIVITIES, IF APPROPRIATE

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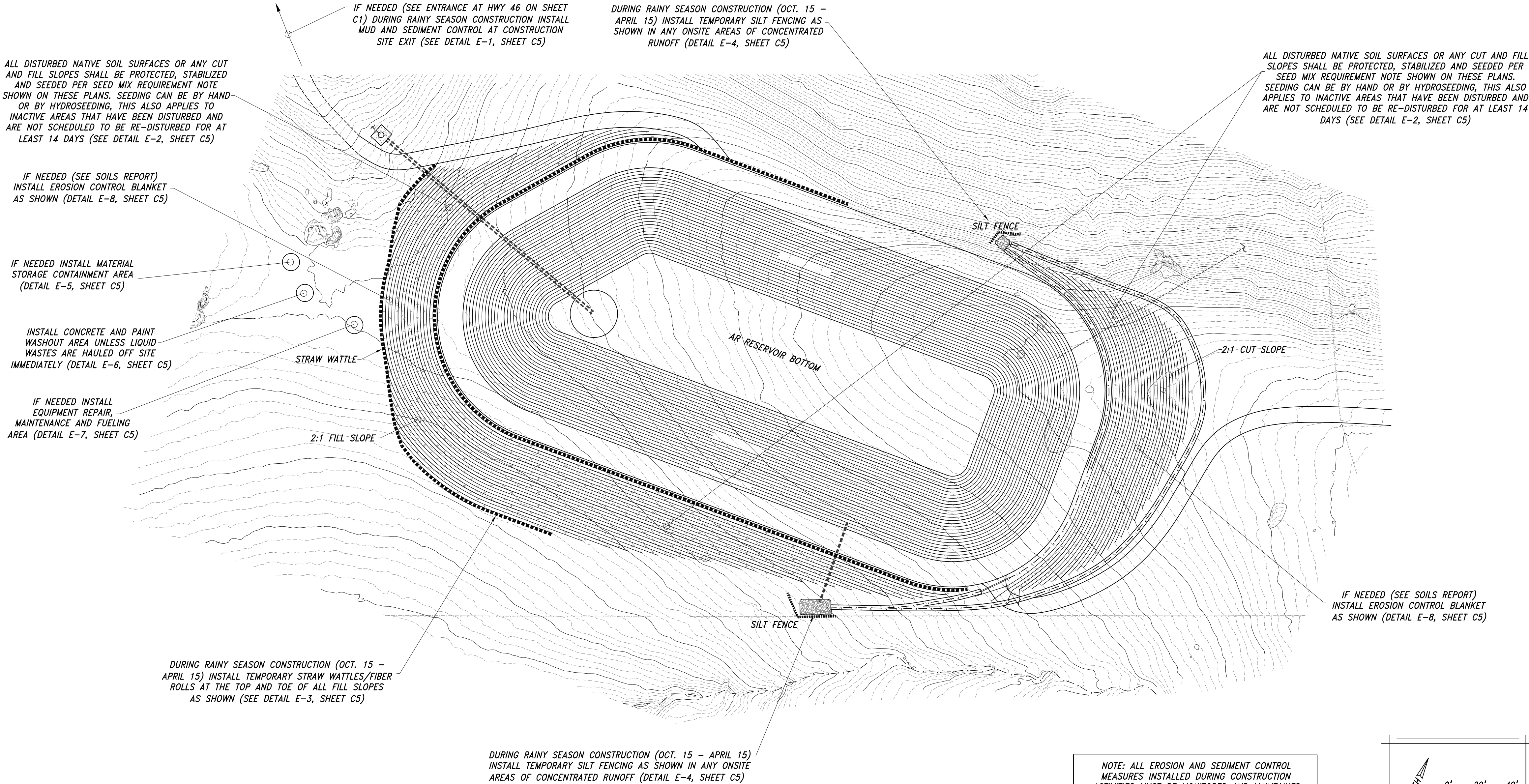
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- ALL SOIL STOCKPILE AREAS SHOULD BE SPRAYED DAILY AS NEEDED
- PERMANENT DUST CONTROL MEASURES IDENTIFIED IN THE APPROVED PROJECT RE-VEGETATION AND LANDSCAPE PLANS SHOULD BE IMPLEMENTED AS SOON AS POSSIBLE FOLLOWING COMPLETION OF ANY SOIL DISTURBING ACTIVITIES
- EXPOSED GROUND AREAS THAT ARE PLANNED TO BE REWORKED AT DATES GREATER THAN ONE MONTH AFTER INITIAL GRADING SHOULD BE SOWN WITH FAST-GERMINATING NATIVE GRASS SEED AND WATERED UNTIL VEGETATION IS ESTABLISHED
- ALL DISTURBED SOIL AREAS NOT SUBJECT TO RE-VEGETATION SHOULD BE STABILIZED USING APPROVED CHEMICAL SOIL BINDERS, JUTE NETTING, OR OTHER METHODS APPROVED BY THE APCD
- ALL ROADWAYS, DRIVEWAYS, SIDEWALKS, ETC. TO BE PAVED SHOULD BE COMPLETED AS SOON AS POSSIBLE. IN ADDITION, BUILDING PADS SHOULD BE LAID AS SOON AS POSSIBLE AFTER GRADING UNLESS SEEDING OR SOIL BINDERS ARE USED
- VEHICLE SPEED FOR ALL CONSTRUCTION VEHICLES SHALL NOT EXCEED 15 MPH ON ANY UNPAVED SURFACE ON THE CONSTRUCTION SITE
- ALL TRUCKS HAULING DIRT, SAND, SOIL, OR OTHER LOOSE MATERIALS ARE TO BE COVERED OR SHOULD MAINTAIN AT LEAST TWO FEET OF FREEBOARD IN ACCORDANCE WITH CVC SECTION 23114
- INSTALL WHEEL WASHERS WHERE VEHICLES ENTER AND EXIT UNPAVED ROADS ONTO STREETS OR WASH OFF TRUCKS AND EQUIPMENT LEAVING THE SITE.
- SWEEP STREETS AT THE END OF EACH DAY IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PAVED ROADS. WATER SWEEPERS WITH RECLAIMED WATER SHOULD BE USED WHERE FEASIBLE.
- THE CONTRACTOR OR BUILDER SHALL DESIGNATE A PERSON OR PERSONS TO MONITOR THE FUGITIVE DUST EMISSIONS AND ENHANCE THE IMPLEMENTATION OF MEASURES AS NECESSARY TO MINIMIZE DUST COMPLAINTS, REDUCE VISIBLE EMISSIONS BELOW 20% CAPACITY, AND TO PREVENT TRANSPORT OF DUST OFFSITE. THEIR DUTIES SHALL INCLUDE HOLIDAYS AND WEEKEND PERIODS WHEN WORK MAY NOT BE IN PROGRESS. THE NAME AND PHONE NUMBER OF SUCH PERSONS SHALL BE PROVIDED TO THE APCD PRIOR TO THE START OF ANY GRADING, EARTHWORK OR DEMOLITION.

SECTION 3.B.2 NATURALLY OCCURRING ASBESTOS

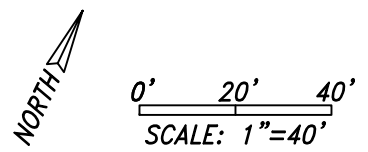
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EROSION, SEDIMENT AND ENVIRONMENTAL CONTROL NOTES:

1. ALL DISTURBED NATIVE SOIL SURFACES OR ANY CUT AND FILL SLOPES SHALL BE PROTECTED, STABILIZED AND SEEDED PER SEED MIX REQUIREMENT NOTE SHOWN ON THESE PLANS. SEEDING CAN BE BY HAND OR BY HYDROSEEDING, THIS ALSO APPLIES TO INACTIVE AREAS THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE RE-DISTURBED FOR AT LEAST 14 DAYS.
2. ANY ONSITE AREAS OF CONCENTRATED RUNOFF SHALL BE PROTECTED BY A TEMPORARY SILT FENCE (SEE THE SILT FENCE DETAIL SHOWN ON THESE PLANS).
3. ANY NATIVE OR IMPORTED SOILS, SEDIMENT OR DEBRIS IS NOT ALLOWED TO LEAVE THE PROPOSED CONSTRUCTION SITE (e.g. THROUGH EXISTING OR PROPOSED CULVERTS, PIPES, DROP INLETS, NATURAL OR GRADED SURFACE DRAINAGE AREAS etc.).
4. WHEN VEHICLES ENTER OR LEAVE THE PROPOSED CONSTRUCTION SITE NO NATIVE OR IMPORTED SOILS, SEDIMENT OR DEBRIS IS ALLOWED TO ENTER ANY PUBLIC OR PRIVATE DRIVEWAY, ACCESS ROAD OR STREET.
5. THE CONTRACTOR IS TO PREVENT ANY OFFSITE SOILS, SEDIMENT, DEBRIS OR RUNOFF, INCLUDING STREET RUNOFF, FROM ENTERING THE PROPOSED CONSTRUCTION SITE.



NOTE: ALL EROSION AND SEDIMENT CONTROL MEASURES INSTALLED DURING CONSTRUCTION ACTIVITIES MUST BE MONITORED AND MAINTAINED AFTER CONSTRUCTION (SEE PERMANENT EROSION AND SEDIMENT CONTROL MEASURES ON THIS SHEET)



REVISIONS		TOPOGRAPHIC SURVEY BY:		ENGINEER OF WORK:		PROJECT DESCRIPTION:	
1		MBS LANDSURVEYS		ERIC J. GOBLER, P.E.		NEGRANTI, 6425 GREEN VALLEY RD, CAMBRIA	
2		MICHAEL B. STANTON		LIC. #C30438		PARCEL B, APN: 046-012-001, ±775.78 ACRES	
3		mike@mbsslansurveys.com		9110 ATASCADERO AVENUE		SHEET DESCRIPTION: EROSION, SEDIMENT AND ENVIRONMENTAL CONTROL NOTES AND DETAILS	
PROPRIETARY NOTES:		3563 SUELDO STREET, SUITE 0		(805) 459-3268 CELL		PLAN #4	
THESE PLANS, SPECIFICATIONS AND DESIGNS ARE INSTRUMENTS OF WORK AND SERVICES PREPARED FOR THIS PROJECT BY ERIC J. GOBLER CIVIL ENGINEERING. NO PART OF THESE PLANS SHALL BE USED IN PART OR IN WHOLE FOR ANY OTHER PROJECT UNLESS WRITTEN CONSENT IS OBTAINED FROM ERIC J. GOBLER, CIVIL ENGINEER.		SAN LUIS OBISPO, CA 93401		egcivilpe@gmail.com		APRIL 2019	
		OFFICE (805) 594-1960		No. C 30438		DESIGN/DRAWN: Bob Livena	
		FAX (805) 594-1966		Exp. 3/31/20		COUNTY PLAN CHECKER:	
		CELL (805) 440-4215		CIVIL ENGINEER		APPROVING ENGINEER FOR COUNTY REQUIREMENTS	
		DATED: 12-11-18		ERIC J. GOBLER, RCE 30438 EXP. 03/31/20		DATER:	
						JOB NUMBER: 18-048	
						CO. PERMIT NUMBER:	
						4-15-19	
						DATER:	
						CALIFORNIA COORDINATES:	
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EROSION, SEDIMENT AND ENVIRONMENTAL CONTROL NOTES AND DETAILS:

TEMPORARY EROSION AND ENVIRONMENTAL CONTROL MEASURES:

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2. THE TEMPORARY EROSION, SEDIMENT AND ENVIRONMENTAL CONTROL MEASURES SHOWN ON THESE PLANS ARE TO BE IMPLEMENTED AS NECESSARY TO ENSURE REDUCED POLLUTANT RELEASES AND MINIMIZE POTENTIAL ENVIRONMENTAL IMPACTS OF THE PROJECT. ALL PROPOSED ENVIRONMENTAL CONTROL MEASURES AND LOCATIONS ARE SHOWN ON THE PROPOSED EROSION CONTROL PLAN. THE IMPLEMENTATION OF ALL ENVIRONMENTAL CONTROL MEASURES MAY NOT BE NECESSARY (e.g. IF ONSITE EQUIPMENT FUELING DOES NOT OCCUR, THEN A FUELING AREA WILL NOT BE NEEDED). THE FOLLOWING PEOPLE LISTED BELOW ARE RESPONSIBLE TO INSTALL, MONITOR AND MAINTAIN ALL TEMPORARY EROSION, SEDIMENT AND ENVIRONMENTAL CONTROL MEASURES.

OWNER:

NEGRANTI GREEN VALLEY RANCH, LLC.
6425 GREEN VALLEY ROAD
CAMBRIA, CA. 93428
(805) 927-8000

RANCH MANAGER:

DUSTIN HAUGE
NEGRANTI GREEN VALLEY RANCH, LLC.
6425 GREEN VALLEY ROAD
CAMBRIA, CA. 93428
(805) 395-0900
dustin.hauge@gmail.com

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SECTION 2.4 FUGITIVE DUST MITIGATION MEASURES; EXPANDED LIST

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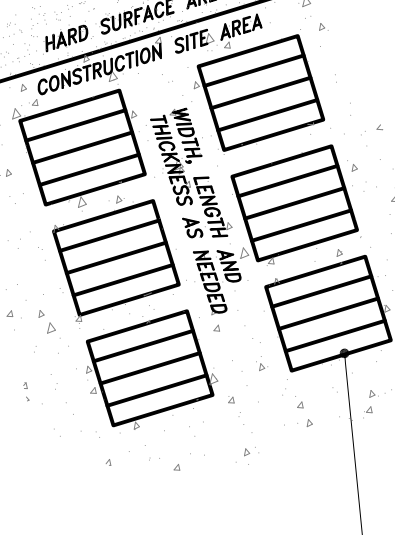
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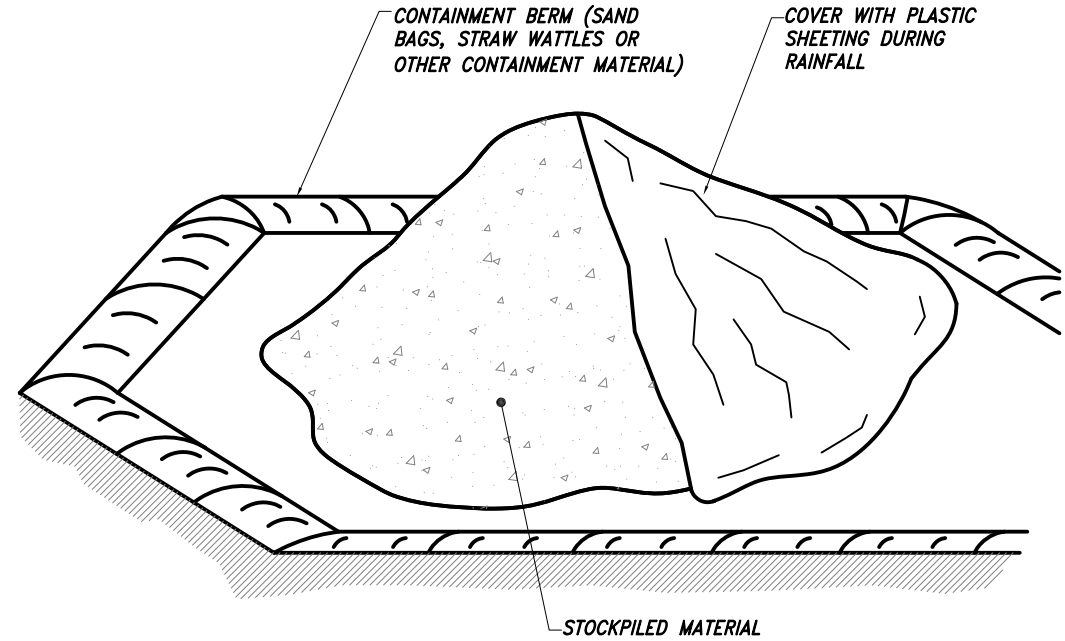
NOTES:

1. MUD, SEDIMENT & OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION SITE EXIT TO PUBLIC ROADWAYS SHALL BE STABILIZED, TO PREVENT SEDIMENT OR OTHER MATERIALS FROM BEING DEPOSITED ON PUBLIC ROADWAYS. DEPOSITS ON PUBLIC ROADWAYS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE NATURAL OR PUBLIC STORM WATER SYSTEM.
2. STABILIZED CONSTRUCTION SITE EXIT SHALL:
 - a. BE LOCATED AT ANY POINT WHERE TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, SIDEWALK OR PARKING AREA
 - b. INCLUDE A SERIES OF STEEL PLATES (3) OR MORE WITH "RUMBLE STRIPS", AND/OR 4" MINIMUM AGGREGATE WITH WIDTH (10" MIN), LENGTH (30" MIN) & THICKNESS NEEDED TO ADEQUATELY PREVENT ANY TRACKING ONTO PAVED SURFACES.
 - c. INCLUDE A WASH RACK WITH A SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER AS NECESSARY TO IMPROVE SEDIMENT COLLECTION EFFICIENCY.
 - d. ENSURE THAT ALL VEHICLES ACCESSING THE CONSTRUCTION SITE UTILIZE THE STABILIZED CONSTRUCTION SITE ENTRANCE/EXIT.
 - e. ENSURE THAT ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IS REMOVED IMMEDIATELY.
 - f. INCLUDE SWEEPING PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
 - g. ENSURE THAT PAVEMENT WASHING IS PREVENTED IF WASHING RESULTS IN A DISCHARGE TO THE STORM WATER SYSTEM OR A NATURAL WATERCOURSE.



A SERIES OF STEEL PLATES (3) OR MORE WITH "RUMBLE STRIPS", AND/OR 4" MINIMUM AGGREGATE WITH WIDTH, LENGTH AND THICKNESS AS NEEDED (SEE NOTE 2b)

MUD AND SEDIMENT CONTROL AT CONSTRUCTION SITE EXIT (DETAIL E-1) N.T.S



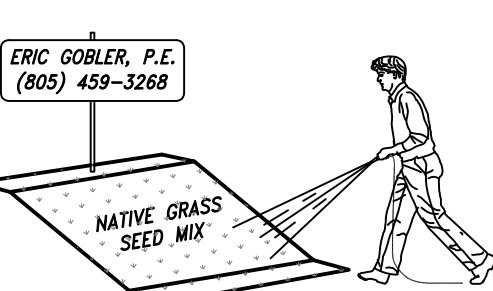
NOTES:

1. SOIL, SAND AND OTHER CONSTRUCTION MATERIALS PLACED IN THE STREET OR ON OTHER IMPERVIOUS SURFACES MUST BE CONTAINED WITH SAND BAGS OR OTHER CONTAINMENT MATERIAL TO PREVENT MIGRATION TO STORM DRAIN INLETS AND WATERCOURSES.
2. ANY CONSTRUCTION MATERIAL STORED OR STOCKPILED ON THE SITE SHALL BE PROTECTED FROM WIND AND WATER FORCES.
3. IT MAY BE NECESSARY TO COVER STOCKPILED MATERIALS WITH PLASTIC SHEETING TO PROTECT AGAINST RAINFALL AND EROSION.

MATERIAL STORAGE CONTAINMENT AREA (DETAIL E-5) N.T.S



FOR PROPER SOIL CONTACT, DRESS OR BLADE SLOPE SMOOTH THEN SEED BY HAND OR BY HYDROSEEDING PER SEED MIX REQUIREMENT NOTE SHOWN ON THESE PLANS

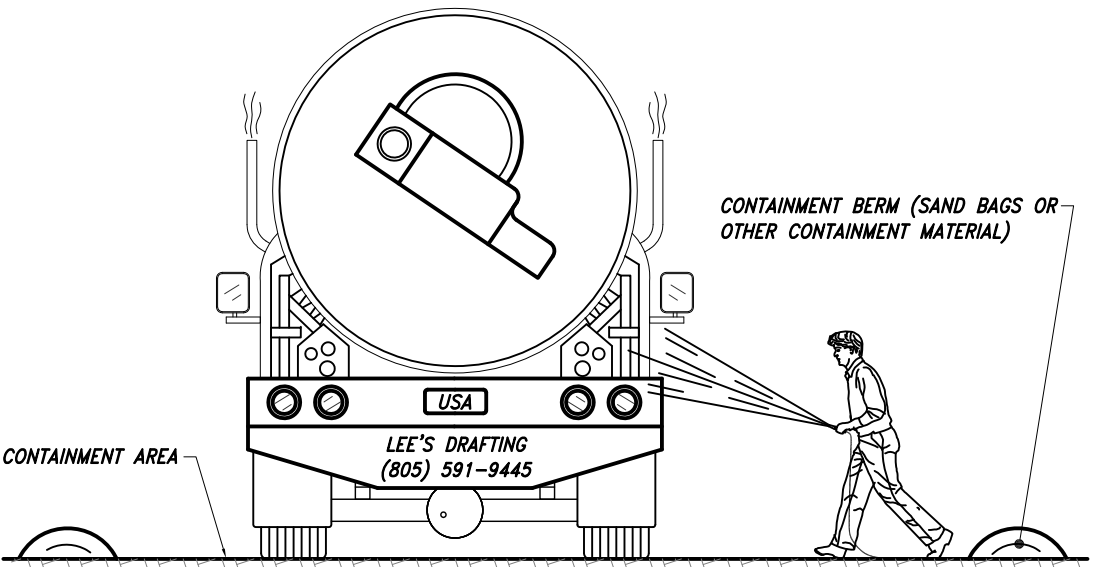


SEED INSTALLATION

NOTES:

1. REVEGETATE OPEN AREAS AND DISTURBED SOILS AS SOON AS POSSIBLE AFTER GRADING. REVEGETATION SHALL INCLUDE HAND SEEDING WITH NATIVE GRASS MIX AND COVERED WITH STRAW MULCH OR HYDROSEEDING WITH NATIVE GRASS MIX. THESE CONTROL PRACTICES SHALL INCLUDE TEMPORARY SEEDING, PERMANENT SEEDING AND SOIL STABILIZATION PRACTICES.
2. SOIL STABILIZATION SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS AND ON ALL INACTIVE DISTURBED AREAS FROM OCTOBER 15 THRU APRIL 15. THE INTENT IS TO ESTABLISH VEGETATIVE COVER PRIOR TO ANY SUBSTANTIAL RAINFALL EVENT.
3. WHEN USING STRAW MULCH, THE MINIMUM APPLICATION SHALL BE TWO TONS/ACRE. MULCH MUST BE ANCHORED IMMEDIATELY TO MINIMIZE WIND OR WATER LOSS. CRIMPING WITH A TRACK VEHICLE IS PREFERRED TO HOLD IN PLACE, OTHERWISE A LIQUID TACKIFIER MAY BE USED.
4. WHEN USING HYDROSEEDING (NATIVE GRASS MIX)/MULCHING, THE MINIMUM APPLICATION OF WOOD FIBER SHALL BE 1,500 POUNDS/ACRE & DOES NOT CONTAIN MORE THAN 50 PERCENT NEWSPRINT.
5. IRRIGATION WATER SHOULD BE APPLIED AS NECESSARY TO ENHANCE GROWTH.

SOIL STABILIZATION AND SITE REVEGETATION (DETAIL E-2) N.T.S



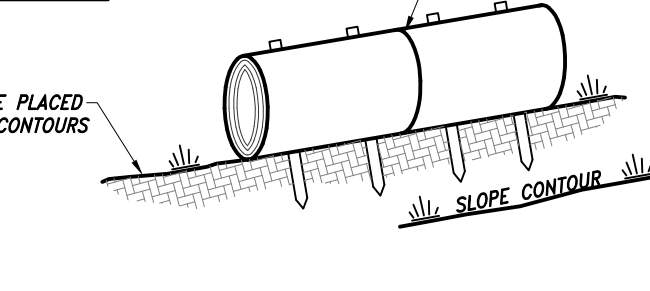
NOTES:

1. EXCESS AND WASTE CONCRETE AND PAINT SHALL NOT BE WASHED INTO THE STREET, INTO A PUBLIC STORMWATER SYSTEM OR INTO A NATURAL DRAINAGE SYSTEM, CREEK, OR WATERWAY.
2. A DESIGNATED CONTAINMENT FACILITY OF SUFFICIENT CAPACITY TO RETAIN LIQUID AND SOLID WASTE MATERIAL SHALL BE PROVIDED ON THE SITE FOR ALL CONCRETE AND PAINT PRODUCTS.
3. SLURRY FROM CONCRETE PRODUCTS AND ASPHALT CUTTING OR GRINDING SHALL BE VACUUMED OR CONTAINED, DRIED AND PICKED UP AND DISPOSED OF PROPERLY.
4. THE WASHOUT FACILITY MUST BE MAINTAINED TO ENSURE WASTE CONTAINMENT.
5. PAINT EQUIPMENT WASHOUT SHOULD OCCUR IN THIS AREA TO CONTAIN PAINT WASTE MATERIALS.

CONCRETE AND PAINT WASHOUT AREA (DETAIL E-6) N.T.S



USE ROLLS IN J-HOOK OR CHEVRON CONFIGURATION ALONG ROADWAYS TO CATCH SEDIMENT

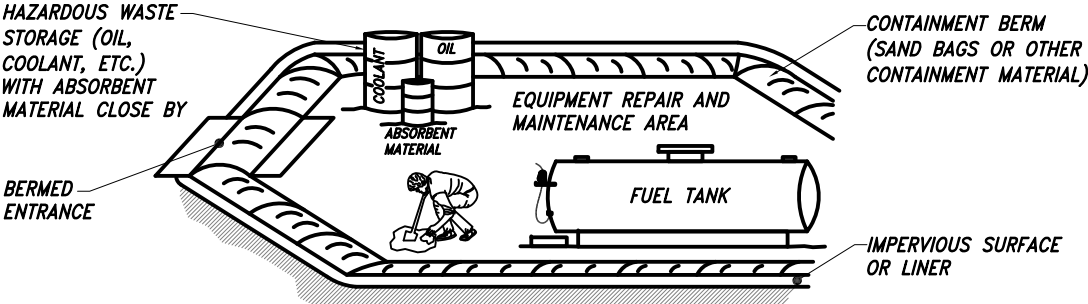


STRAW MULCH INSTALLATION

NOTES:

1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE STRAW ROLL IN A TRENCH, 3" TO 5" DEEP, DUG ON A SLOPE CONTOUR.
2. SINGLE FIBER ROLLS (USING THIS DETAIL) MAY BE PLACED ALONG THE TOP OR TOE OF DISTURBED SLOPES TO CONTAIN SEDIMENT AND REDUCE SEDIMENT MIGRATION POTENTIAL.
3. ROLL SPACINGS TO BE DETERMINED IN THE FIELD, AT A MINIMUM THE ROLLS ARE TO BE PLACED AT TOP AND BOTTOM OF SLOPE, AND MID-SLOPE IF SLOPE FACE EXCEEDS 50°, AND EVERY 100'-200' ALONG ROADWAYS. J-HOOKS SHOULD BE USED TO CONTAIN SEDIMENT ALONG ROADWAY EDGES.

STRAW WATTLE OR FIBER ROLL DETAIL (DETAIL E-3) N.T.S



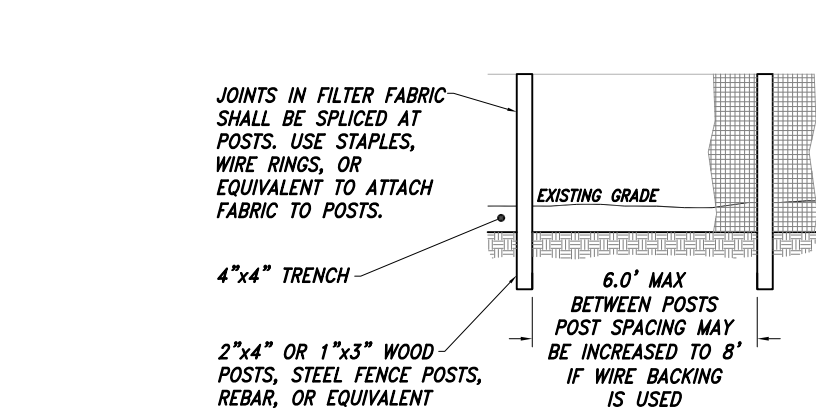
EQUIPMENT REPAIR AND MAINTENANCE AREA NOTES:

1. LEAKING VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED ON THE SITE. ALL EQUIPMENT AND VEHICLES SHALL BE INSPECTED FREQUENTLY FOR LEAKS AND SHALL BE REPAIRED IMMEDIATELY. CLEAN UP SPILLS AND LEAKS PROMPTLY WITH ABSORBENT MATERIAL (DO NOT FLUSH WITH WATER ONSITE).
2. VEHICLES AND EQUIPMENT SHALL BE MAINTAINED AND REPAIRED ONLY IN DESIGNATED ONSITE AREAS. CONTAINMENT DEVICES SHALL BE PROVIDED AND AREAS SHALL BE COVERED IF NECESSARY.
3. DESIGNATE ON SITE VEHICLE AND EQUIPMENT MAINTENANCE AREAS AWAY FROM STORM DRAIN INLETS AND WATERCOURSES.
4. ALWAYS USE SECONDARY CONTAINMENT MEASURES, SUCH AS DRAIN PANS AND DROP CLOTHS WHEN CHANGING OR ADDING HAZARDOUS FLUIDS (i.e. OIL, COOLANT & FUELS etc.) TO VEHICLES AND EQUIPMENT.
5. "LEGALLY" DISPOSE OF HAZARDOUS MATERIALS (i.e. OIL, COOLANT & FUELS etc.) THAT ARE IN STORAGE CONTAINERS PERIODICALLY.
6. MAINTAIN AND ADEQUATE SUPPLY OF ABSORBENT MATERIAL IN DESIGNATED AREAS.

FUELING NOTES:

1. FUELING SHALL BE PERFORMED IN A DESIGNATED AREA AWAY FROM STORM DRAIN INLETS AND WATERCOURSES.
2. AN ADEQUATE SUPPLY OF ABSORBENT MATERIAL SHALL BE MAINTAINED IN DESIGNATED AREAS AND USED IMMEDIATELY IN THE EVENT OF A SPILL.

EQUIPMENT REPAIR, MAINTENANCE AND FUELING AREA (DETAIL E-7) N.T.S



NOTE: SILT FENCE SHALL BE USED TO REDUCE THE RUN-OFF VELOCITY (WHERE SHEET FLOW EXISTS), STOP SEDIMENT MIGRATION AND PROTECT DISTURBED SOILS FROM DEVELOPING RILL OR GULLIES. SILT FENCE SHALL BE PLACED AS SHOWN BELOW DISTURBED AREAS, IF JUTE NET OR STRAW MAT IS NOT USED ON SLOPES OR HYDROSEEDING HAS RECENTLY BEEN USED AND VEGETATION IS NOT WELL ESTABLISHED

NOTE: FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE AND SHOULD NOT BE INSTALLED IN DRAINAGES AND SHOULD NOT BE CHANNELS OR WHERE CONCENTRATED STORM FLOWS EXIST

TEMPORARY SILT FENCE (DETAIL E-4) N.T.S



FOR PROPER SOIL CONTACT SLOPE SURFACE SHALL BE SMOOTH, STAPLE PER MANUFACTURERS RECOMMENDATIONS, FERTILIZE AND SEED BEFORE INSTALLATION, PLANTING OF SHRUBS, TREES, ETC. SHOULD OCCUR AFTER INSTALLATION

EXTEND MATERIAL DOWN TO A LEVEL AREA, TURN THE END UNDER 4" AND STAPLE AT 12" INTERVALS

NOTE: DO NOT STRETCH BLANKETS/MATTINGS TIGHT, ALLOW THE ROLLS TO MOLD TO ANY IRREGULARITIES. FOR SLOPES LESS THAN 30% V, ROLLS MAY BE PLACED IN HORIZONTAL STRIPS

EROSION CONTROL BLANKET (DETAIL E-8) N.T.S



REVISIONS

1	
2	
3	

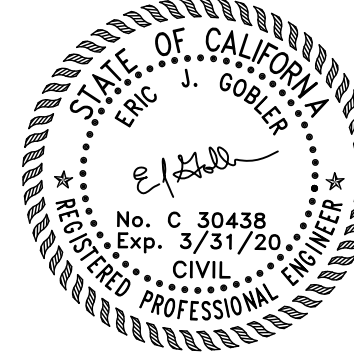
PROPRIETARY NOTES:

THESE PLANS, SPECIFICATIONS AND DESIGNS ARE INSTRUMENTS OF WORK AND SERVICES PREPARED FOR THIS PROJECT BY ERIC J. GOBLER CIVIL ENGINEERING. NO PART OF THESE PLANS SHALL BE USED IN ANY PROJECT OR IN WHOLE FOR ANY OTHER PROJECT UNLESS WRITTEN CONSENT IS OBTAINED FROM ERIC J. GOBLER, CIVIL ENGINEER.

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OFFICE (805) 594-1960
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CELL (805) 440-4215
DATED: 12-11-18

ENGINEER OF WORK:



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LIC. #C30438
9110 ATASCADERO AVENUE
ATASCADERO, CA. 93422
(805) 459-3268 CELL
egcivlpe@gmail.com



PROJECT DESCRIPTION:

NEGRANTI, 6425 GREEN VALLEY RD, CAMBRIA
PARCEL B, APN: 046-012-001, ±775.78 ACRES

SHEET DESCRIPTION:

EROSION, SEDIMENT AND ENVIRONMENTAL
CONTROL NOTES AND DETAILS

PLAN #4

DESIGN/DRAWN: COUNTY PLAN CHECKER:

JOB NUMBER: CO. PERMIT NUMBER:

APPROVING ENGINEER FOR COUNTY REQUIREMENTS: DATED: 4-15-19

ERIC J. GOBLER, P.E. 30438 EXP. 03/31/20

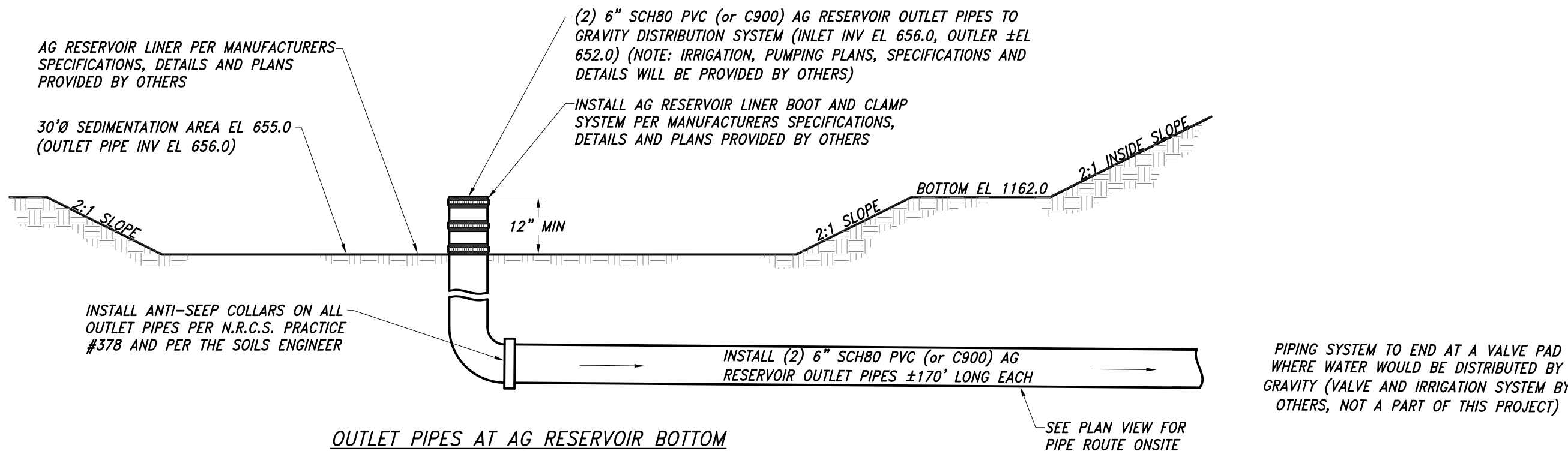
CALIFORNIA COORDINATES: N E

SHEET: C5

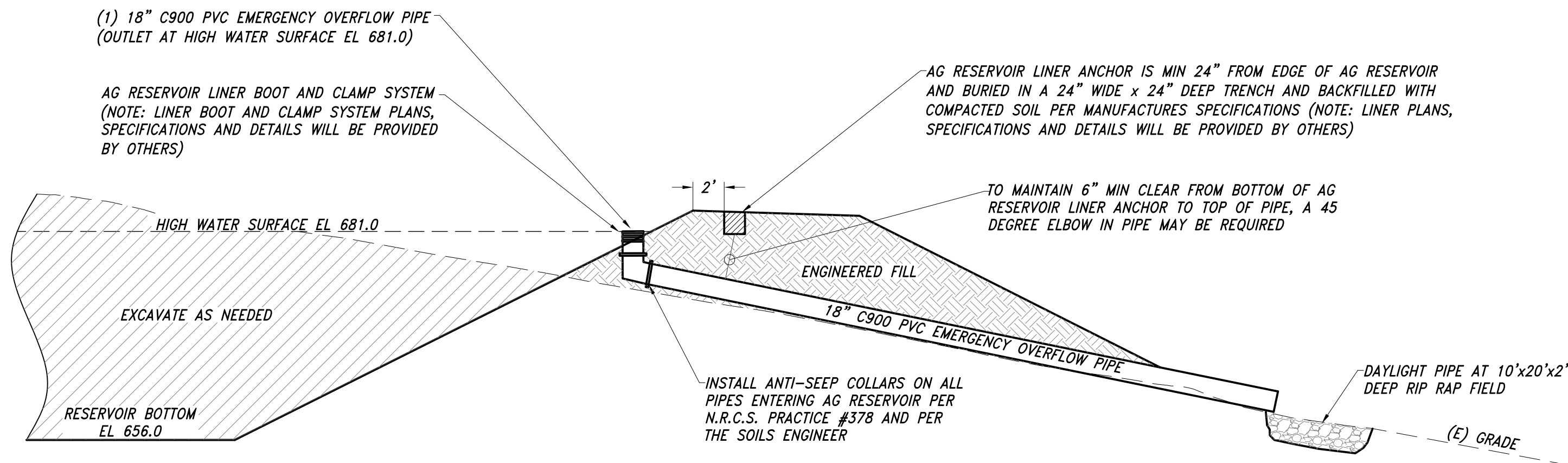
CONSTRUCTION NOTES AND SITE DETAILS:

GENERAL CONSTRUCTION, GRADING & DRAINAGE NOTES:

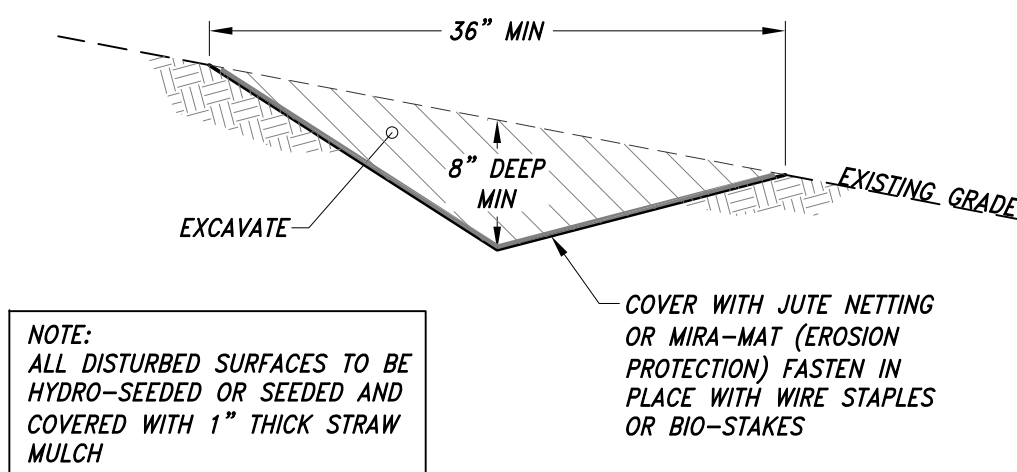
1. NO CONSTRUCTION SHALL BE STARTED WITHOUT PLANS AND PERMITS APPROVED BY THE COUNTY.
2. ALL AG RESERVOIR CONSTRUCTION, RESERVOIR PAD PLACEMENT AND ALL ENGINEERED AND COMPACTED FILL SLOPES SHALL BE COMPACTED TO A 90% RELATIVE DENSITY AND CONFORM TO RECOMMENDATIONS MADE BY AND UNDER THE DIRECTION OF THE GEOTECHNICAL ENGINEER (SPECIAL INSPECTOR) AND TO BE IN FULL COMPLIANCE WITH THE SPECIAL INSPECTIONS AND REPORTS TABLE (SEE SHEET C1).
3. ENGINEER OF RECORD TO PROVIDE A FINAL REPORT STATING THAT THE GRADING, DRAINAGE AND EROSION CONTROL WORK PERFORMED IS IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS.
4. A GEOTECHNICAL ENGINEER TO PROVIDE A FINAL REPORT THAT THE AG RESERVOIR WAS CONSTRUCTED UNDER THE DIRECTION OF THE GEOTECHNICAL ENGINEER (SPECIAL INSPECTOR) AND TO BE IN FULL COMPLIANCE WITH THE SPECIAL INSPECTIONS AND REPORTS TABLE (SEE SHEET C1).
5. ALL AREAS RECEIVING ENGINEERED AND COMPACTED FILL SLOPES ARE TO BE CLEARED, SCARIFIED AND INSPECTED BY THE GEOTECHNICAL ENGINEER (SPECIAL INSPECTOR) OR CERTIFIED ENGINEERING GEOLOGISTS PRIOR TO FILL PLACEMENT. CLEARING SHALL REMOVE AT LEAST THE UPPER 6 INCHES OF EXISTING SURFACE SOIL AND DEBRIS.
6. NEITHER ORGANIC DEBRIS NOR BOULDERS (GREATER THAN 3" Ø) ARE TO BE PLACED IN COMPACTED FILL AREAS. REMOVE ANY DELETERIOUS MATERIAL (NON-COMPLYING MATERIAL) ENCOUNTERED BEFORE PLACING FILL, INCLUDING ANY EXISTING VEGETATION.
7. SLOPES CREATED BY CUTS OR FILLS SHALL NOT EXCEED 2:1 GRADE (HORIZONTAL:VERTICAL) VARIATIONS MUST BE SUPPORTED BY TECHNICAL DOCUMENTATION SIGNED BY A REGISTERED ENGINEER (SOILS EXPERTISE) OR A CERTIFIED ENGINEERING GEOLOGIST AND MUST BE APPROVED BY THE COUNTY IF GRADED IN EXCESS OF 2:1.
8. THE TOE OF ALL ENGINEERED AND COMPACTED FILL SLOPES IS TO BE PROPERLY KEYED OR BENCHED TO NATIVE SOILS AS REQUIRED BY CHAPTER 18 OF C.B.C. (10 FT WIDE), UNLESS OTHERWISE IDENTIFIED IN THE SITE SPECIFIC SOILS REPORT OR REQUIRED BY THE COUNTY.
9. THE SITE IS TO BE GRADED TO DIRECT ALL SURFACE DRAINAGE AWAY FROM CUT AND FILL SLOPES.
10. ANY STOCKPILED SOIL SHOULD BE REDISTRIBUTED OVER DISTURBED SURFACES ONCE FINAL GRADE IS ESTABLISHED.
11. MINIMUM SET BACK TO CREEKS AND BLUFFS SHALL BE MAINTAINED. MINIMUM SET BACK OF TWO FEET FROM ALL PROPERTY LINES WILL BE MAINTAINED FOR ALL GRADING. BLUFF AND RAVINE SETBACKS MUST BE FOLLOWED AS INDICATED.
12. AN APPROVED EROSION CONTROL PLAN MUST BE SUBMITTED, APPROVED AND IMPLEMENTED SHOULD GRADING OCCUR BETWEEN OCTOBER 15 AND APRIL 15. RELATED NOTES AND DETAILS SHOWN ON THIS PLAN MUST BE FOLLOWED UNLESS OTHERWISE APPROVED.
13. ALL DISTURBED AREAS, INCLUDING ANY VEGETATED SWALES, ARE TO BE STABILIZED WITH NATIVE GRASS MIX BY HAND OR HYDROSEED TO MINIMIZE EROSION. ALL PERMANENT LANDSCAPING AND VEGETATION IS TO BE INSTALLED AND WELL ESTABLISHED PRIOR TO THE FINAL INSPECTION. TO PREVENT RUNOFF DURING CONSTRUCTION ACTIVITIES, ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED, INSTALLED AND MUST BE AVAILABLE ONSITE AT ALL TIMES. IF ANY GRADING OCCURS AT ANY TIME, THEN THE DISTURBED SURFACES ARE TO BE SEEDED AND COVERED WITH STRAW MULCH IMMEDIATELY.
14. DUST CONTROL IS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
15. ALL NATIVE TREES WITHIN 20 FEET OF GRADING ACTIVITIES SHALL BE PROTECTED, UNLESS OTHERWISE NOTED ON THIS PLAN.
16. UNDERGROUND UTILITIES MUST BE LOCATED PRIOR TO CONSTRUCTION BY CALLING USA AT 1-800-227-2600.



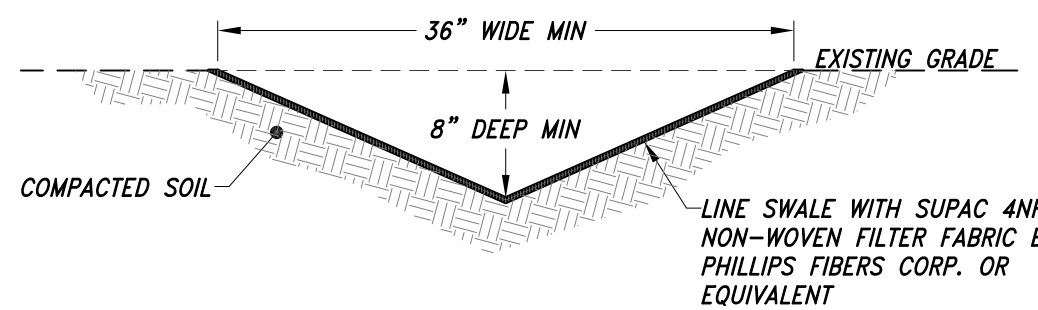
AG RESERVOIR OUTLET PIPES (DETAIL C)
NOT TO SCALE



AG RESERVOIR 18" EMERGENCY OVERFLOW PIPE
DETAIL D
SCALE: 1"=10'



VEGETATED INTERCEPTOR CHANNEL
DETAIL A
SCALE: 1"=1'



LINED VEGETATED SWALE
DETAIL B
SCALE: 1"=1'

REVISIONS		TOPOGRAPHIC SURVEY BY:		ENGINEER OF WORK:		PROJECT DESCRIPTION:	
1		MBS LANDSURVEYS		MICHAEL B. STANTON		NEGRANTI, 6425 GREEN VALLEY RD, CAMBRIA	
2		mbs@missionsurveys.com		ERIC J. GOBLER, P.E.		PARCEL B, APN: 046-012-001, ±775.78 ACRES	
3		3563 SUELDO STREET, SUITE Q		LIC. #C30438		CONSTRUCTION NOTES AND SITE DETAILS	
PROPRIETARY NOTES:		OFFICE (805) 594-1960		9110 ATASCADERO AVENUE		DESIGN/DRAWN: COUNTY PLAN CHECKER:	
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		CELL (805) 440-4215		(805) 459-3268 CELL		JOB NUMBER: CO. PERMIT NUMBER:	
		DATED: 12-11-18		egcivilpe@gmail.com		18-048	
						CALIFORNIA COORDINATES:	
						N	
						E	
						C6	