



# AGRICULTURE WORKFORCE HOUSING MOBILE / TRAILER UNITS MESA ROAD BOLINAS CA, 94924 APN: 193-020-38

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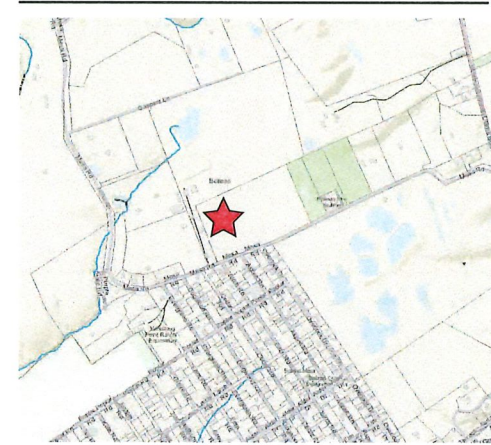
  

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### ABBREVIATIONS

ADJ	ADJACENT OR ADJUSTABLE	FD	FLOOR DRAIN	PSI	POUNDS PER SQUARE INCH
A/C	AIR CONDITIONING	FT	FOOT OR FEET	PT	PRESSURE TREATED
AC	ASPHALT CONCRETE	FTG	FOOTING	PTDF	PRESSURE TREATED DOUGLAS FIR
ALT	ALTERNATE	FAU	FORCED AIR UNIT	PL	PROPERTY LINE
AB	ANCHOR BOLT	FDM	FOUNDATION	RAD	RADIUS
AFT	ADDS FINISH FLOOR	GA	GALVE	REF	REFERENCE OR REFRIGERATOR
AGG	AGGREGATE	GI	GALVANIZED IRON	RESL	RESILIENT
BMT	BASEMENT	GAL	GALVANIZED	RA	RETURN AIR
BSG	BEARING	GF	GROUND FAULT CIRCUIT	REV	REVISION
BM	BENCH MARK	GR	GRAB BAR	RH	RIGHT HAND
BET	BETWEEN	GL	GLASS OR GLAZING	RD	ROOF DRAIN
BLK	BLOCK	GB	GRAB BAR	RFD	ROOFING
BLW	BELOW	HDW	HARDWARE	RM	ROOM
BLKG	BLOCKING	HDR	HEADER	RO	ROUGH OPENING
BD	BOARD	HTG	HEATING	SC	SOLID CORE
BW	BOTH WAYS	HVAC	HEATING/ VENTING/ AIR	SCH	SCHEDULE
BOT	BOTTOM	HT	HEIGHT	SCR	SCREEN
BRNZ	BRONZE	HTC	HOLLOW CORE	SHT	SHEET
CL	CENTERLINE	HOR	HORIZONTAL	SH	SHelf OR SHELVING
CO	COMBINATION OR COMBUSTION	HR	HOSE BIB	SH	SIMILAR
CO	CLEANOUT	IB	INSIDE DIAMETER	S and P	SHELF AND POLE
COMP	COMPOSITION	ID	INTERIOR	SPKR	SPEAKER
CONC	CONCRETE	INT	INTERIOR	SPEC	SPECIFICATIONS
CMU	CONCRETE MASONRY UNIT	JNT	JOINT	SQ	SQUARE
CONST	CONSTRUCTION	KIT	KITCHEN	STD	STANDARD
CONT	CONTINUOUS	KO	KNOCK-OUT	SSTL	STAINLESS STEEL
CNTR	COUNTER	LB	LAG BOLT	ST	STEEL
CS	COUNTERSINK	LAM	LAMINATE	STRUC	STRUCTURAL
CNT	COUNTER	LAV	LAVATORY	SA	SUPPLY AIR
CNTR	COUNTER	LH	LEFT HAND	SUS	SUSPENDED
CJ	CUBIC FOOT	L	LENGTH	SYS	SYSTEM
CU	CUBIC	LT	LIGHT	TEL	TELEPHONE
DTL	DETAIL	LTWT	LIGHTWEIGHT	TV	TELEVISION
DIAG	DIAGONAL	MB	MACHINE BOLT	THK	THICK OR THICKNESS
DIA	DIAMETER	MFR	MANUFACTURER	THR	THRESHOLD
DM	DIMENSION	MAS	MASONRY	T and G	TONGUE AND GROOVE
DW	DISHWASHER	MAX	MAXIMUM	TP	TOP OF CONCRETE
DIV	DIVISION	MECH	MECHANICAL	TP	TOP OF PAVING
DR	DOOR	MEC	MEDICINE CABINET	TW	TOP OF WALL
DS	DOWNSPOUT	MET	METAL	TB	TOILET BAR
DRN	DRAIN	MIN	MINIMUM	TH	TOILET PAPER HOLDER
DWG	DRAWING	MISC	MISCELLANEOUS	TS	TUBE STEEL
ELEC	ELECTRICAL	MNT	MOUNT	TYP	TYPICAL
EL	ELEVATION	NAT	NATURAL	UDN	UNLESS OTHERWISE NOTED
EMER	EMERGENCY	NIC	NOT IN CONTRACT	VCT	VERTICAL COMPOSITION TILE
EXH	EXHAUST	NTS	NOT TO SCALE	VERT	VERTICAL
(S)	EXISTING	OBS	OBSCURE	VSCT	VERIFY IN FIELD
EB	EXPANSION BOLT	OC	ON CENTER	WC	WANSNOT
EXP	EXPOSED	OPG	OPENING	WC	WATER CLOSET
EXT	EXTERIOR	OPP	OPPOSITE	WN	WINDOW
FOC	FACE OF CONCRETE	OH	OVERHEAD	WP	WEATHER OR WATER PROOF
FOF	FACE OF FINISH	PK	PARKING	WH	WATER HEATER
FOS	FACE OF STUD	PKT	PARTITION	WTR	WATER
FIN	FINISH	PVMT	PAVEMENT	WT	WEIGHT
FFL	FINISH FLOOR LINE	PLAS	PLASTIC OR PLASTER	W/	WITH
FE	FIRE EXTINGUISHER	PLYWD	PLYWOOD	W/O	WITHOUT
FF	FIREPROOF	PVC	POLYVINYL CHLORIDE		
FLR	FLOOR	PSF	POUNDS PER SQUARE FOOT		

### VICINITY MAP



### PROJECT MAP



### ZONING PARAMETERS

ZONING	EXISTING	PROPOSED	REQUIREMENT
	C-ARP-10	C-ARP-10	
LOT AREA	877,254 SF	877,254 SF	
TOTAL FLOOR AREA	N/A	N/A	
MAXIMUM HEIGHT	25' / 15'	11' 4"	
LOT COVERAGE	N/A		N/A
PARKING	N/A	14	N/A
FRONT SETBACK	N/A	445' / 680'	N/A
REAR SETBACK	N/A	170' / 30'	N/A
LEFT SIDE YARD	N/A	30' / 405'	N/A
RIGHT SIDE YARD	N/A	830' / 550'	N/A

### DRAWING INDEX

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### PROJECT DIRECTORY

<b>OWNER/APPLICANT</b> BCLT 6 Wharf Road, #8 Bolinas, CA 94924	<b>BIOLOGIST</b> Julia King 14015 Murphy Avenue San Martin, CA 95046 408-591-6465
<b>CIVIL ENGINEER</b> MUNSELLE ENGINEERING 513 C S H , CA 544 0 3 5 0	<b>SEPTIC ENGINEER</b> ECKMAN ENVIRONMENTAL 100 Shoreline Highway, Bldg B Mill Valley, CA 94941 415-895-0364

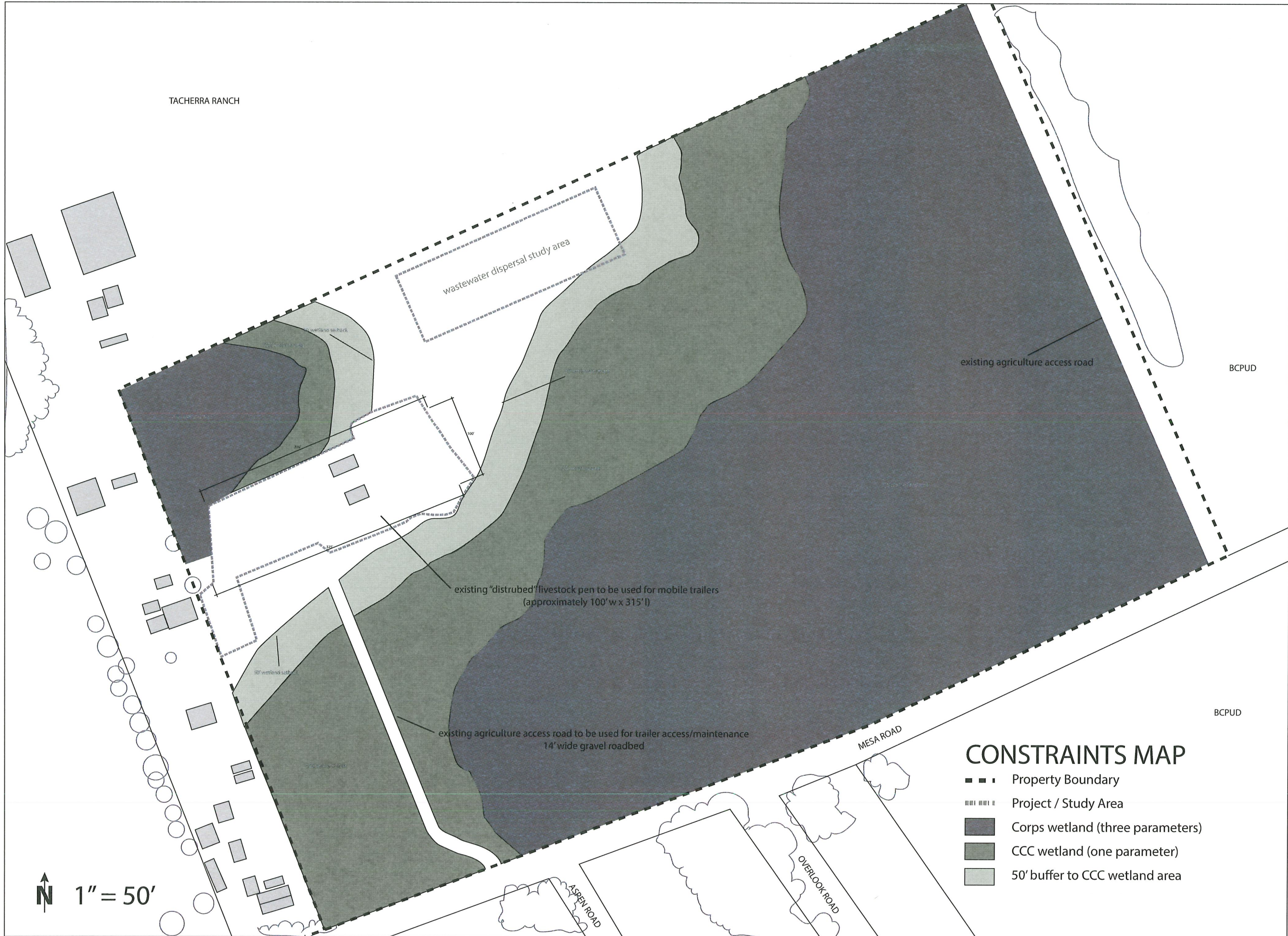
### PROJECT SCOPE

- TRAILER WORKFORCE HOUSING
- ONSITE WASTEWATER SYSTEM
- UTILIT IN RASTRUCTURE

## DZA - Attachment #11

APN: 193-020-38  
 BCLT - MESA ROAD  
 BOLINAS, CA 94924

Title	TITLE SHEET
Scale	
Date	June 5, 2023
Sheet	T.0
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Revisions

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### CONSTRAINTS MAP

- ■ ■ Property Boundary
- ■ ■ ■ ■ Project / Study Area
- Corps wetland (three parameters)
- CCC wetland (one parameter)
- 50' buffer to CCC wetland area

Title CONSTRAINTS MAP

Scale

Date June 5, 2023

Sheet

CM

of



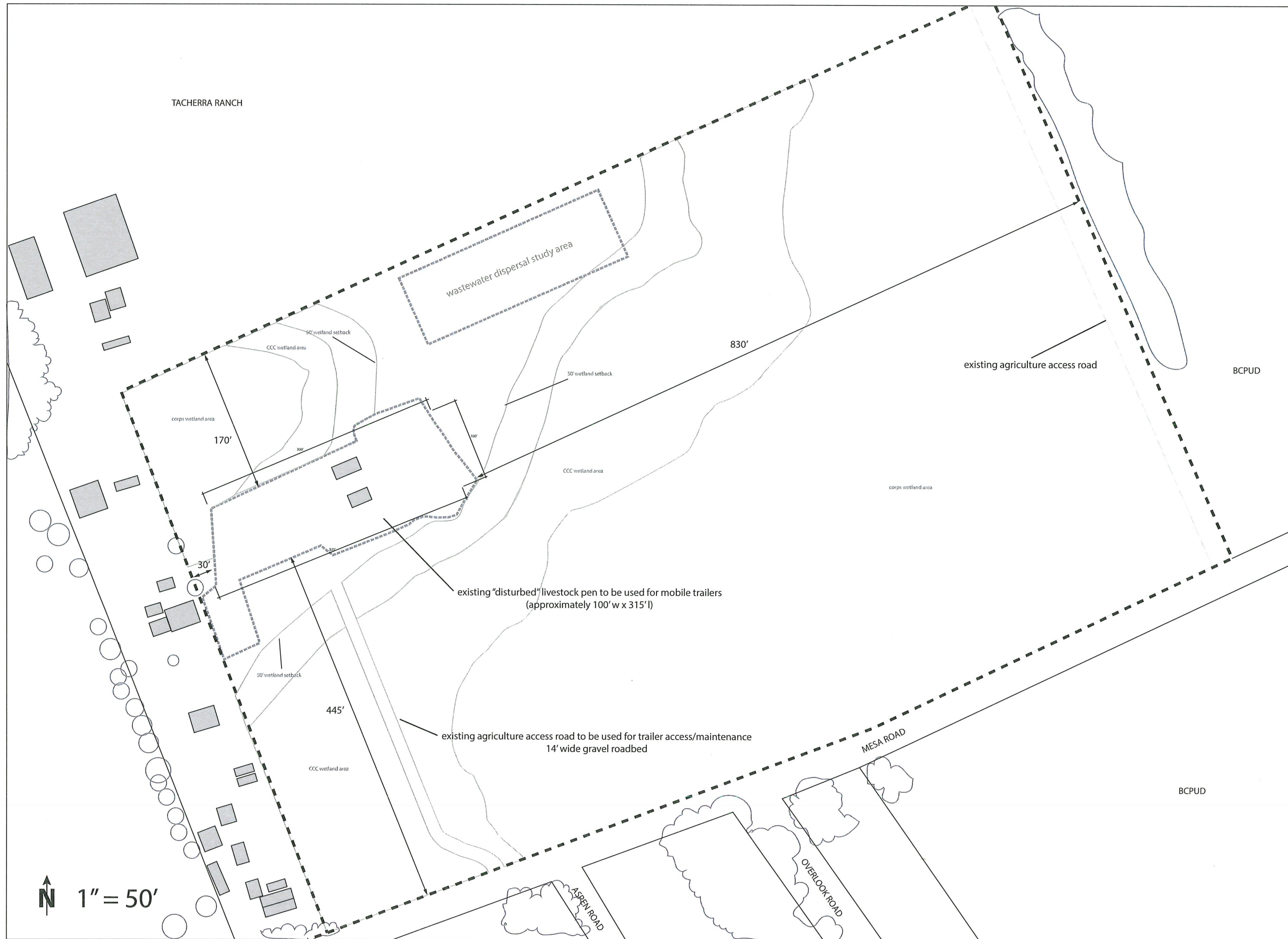
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Title	EXISTING SITE PLAN
Scale	
Date	June 5, 2023
Sheet	S.0
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**GRADING AND DRAINAGE NOTES**

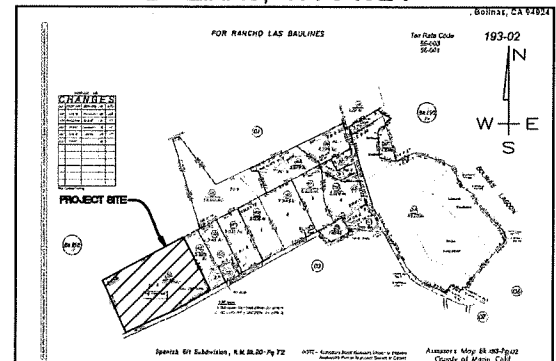
- PERFORM GRADING AND DRAINAGE IMPROVEMENTS IN ACCORDANCE WITH CURRENT EDITION OF THE CALIFORNIA BUILDING CODE (CBC), APPENDIX J AND APPLICABLE COUNTY OF MARIN CODE AND REGULATIONS.
- ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD UPON DISCOVERING DISCREPANCIES, ERRORS, OR OMISSIONS IN THE PLANS. PRIOR TO PROCEEDING, THE OWNER SHALL HAVE THE PLANS REVISED TO CLARIFY IDENTIFIED DISCREPANCIES, ERRORS, OR OMISSIONS. THE APPROVED PLANS AND SPECIFICATIONS SHALL NOT BE CHANGED WITHOUT THE WRITTEN APPROVAL OF THE MARIN COUNTY BUILDING DEPARTMENT. PROPOSED MODIFICATIONS TO THE APPROVED PLANS AND SPECIFICATIONS SHALL BE SUBMITTED TO THE PERMIT AUTHORITY IN WRITING, TOGETHER WITH ALL NECESSARY TECHNICAL INFORMATION AND DESIGN DETAILS.
- THE GRADING/DRAINAGE PERMIT AND AN APPROVED COPY OF THE GRADING/DRAINAGE PLANS SHALL BE MAINTAINED ON THE PROJECT SITE THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES.
- MARIN COUNTY BUILDING DEPARTMENT MAY ORDER THAT ANY WORK STOP IMMEDIATELY IF IT IS PERFORMED CONTRARY TO CBC APPENDIX J, MILL VALLEY CODE AND REGULATIONS. THE APPROVED PLANS AND SPECIFICATIONS, PERMIT CONDITIONS, OR ANY WORK THAT HAS BECOME HAZARDOUS TO PROPERTY OR THE PUBLIC.
- ISSUANCE OF A GRADING/DRAINAGE PERMIT BY COUNTY OF MARIN DOES NOT ELIMINATE THE RESPONSIBILITY OF THE OWNER TO SECURE PERMITS FROM OTHER AGENCIES WITH REGULATORY RESPONSIBILITIES FOR THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE WORK ON THESE PLANS. FAILURE TO OBTAIN ALL REQUIRED PERMITS MAY RESULT IN FINES FROM THE RESPECTIVE AGENCY.
- EXISTING DRAINAGE COURSES RECEIVING WATERS FROM THIS SITE AND LOCATED THROUGHOUT THIS SITE SHALL REMAIN OPEN AND CLEAR OF DEBRIS TO PROPERLY CONVEY STORM WATER. IF EXISTING DRAINAGE COURSES RECEIVING WATERS FROM THIS SITE ARE LOCATED IN CITY RIGHT-OF-WAY AND NEED MAINTENANCE, CONTACT MARIN COUNTY DEPARTMENT OF PUBLIC WORKS AT (415) 473-6528 FOR FURTHER ASSISTANCE. IN ANY EVENT, THE OWNER AND/OR CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO OBSTRUCTING NATURAL DRAINAGE PATTERNS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UNDERGROUND SERVICE ALERT (U.S.A.), TOLL FREE AT 1-800-642-2444, AT LEAST TWO WORKING DAYS BUT NOT MORE THAN 14 CALENDAR DAYS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL UNCOVER RELEVANT UTILITIES TO VERIFY THEIR LOCATION AND DEPTH. IF UNEXPECTED UTILITIES ARE ENCOUNTERED DURING EXCAVATION, NOTIFY U.S.A., THE UTILITY OWNER, AND/OR THE ENGINEER OF RECORD IMMEDIATELY. UTILITIES INCLUDE BUT ARE NOT LIMITED TO WATER, SEWER, ELECTRICAL, GAS, TELEPHONE, AND CABLE/TV. IF PRACTICAL, THE EXCAVATOR SHALL DELINEATE WITH WHITE PAINT OR OTHER SUITABLE MARKINGS THE AREA TO BE EXCAVATED.
- IN THE EVENT CULTURAL RESOURCES (I.E., HISTORICAL, ARCHAEOLOGICAL, AND PALEONTOLOGICAL RESOURCES, AND HUMAN REMAINS) ARE DISCOVERED DURING GRADING OR OTHER CONSTRUCTION ACTIVITIES, WORK SHALL IMMEDIATELY BE HALTED WITHIN THE VICINITY OF THE FIND. THE NORTHWEST INFORMATION CENTER SHALL BE NOTIFIED AT (707) 664-0880. A QUALIFIED ARCHAEOLOGIST SHALL BE CONSULTED FOR AN ON-SITE EVALUATION. ADDITIONAL MITIGATION MAY BE REQUIRED BY THE CITY OF MILL VALLEY PER THE ARCHAEOLOGIST'S RECOMMENDATIONS. IF HUMAN BURIALS OR HUMAN REMAINS ARE ENCOUNTERED, THE CONTRACTOR SHALL ALSO NOTIFY THE COUNTY CORONER AT (415) 499-6043.
- SHOULD GRADING OPERATIONS ENCOUNTER HAZARDOUS MATERIALS, OR WHAT APPEAR TO BE HAZARDOUS MATERIALS, STOP WORK IMMEDIATELY IN THE AFFECTED AREA AND CONTACT 911 OR THE APPROPRIATE AGENCY FOR FURTHER INSTRUCTION.
- RETAINING WALLS, UNLESS EXEMPTED, ARE NOT APPROVED UNDER A GRADING PERMIT. A SEPARATE BUILDING PERMIT IS REQUIRED.
- EQUIPMENT SHALL NOT CROSS OR DISTURB CHANNELS OF ACTIVELY FLOWING STREAMS WITHOUT MARIN COUNTY APPROVED PERMIT AND BEST MANAGEMENT PRACTICES.
- GRADING AND DRAINAGE IMPROVEMENTS SHALL BE SET BACK FROM STREAMS, LAKES, PONDS, AND WETLANDS IN COMPLIANCE WITH CITY REQUIREMENTS. EXISTING VEGETATION SHALL BE RETAINED IN STREAM SETBACK AREAS TO FILTER SOIL AND OTHER POLLUTANTS CARRIED IN STORMWATER.
- EXCESS SOIL SHALL BE REMOVED FROM THE SITE UNLESS DEPICTED TO REMAIN ON SITE PER THE APPROVED PLAN. THE SITE RECEIVING SOIL MAY REQUIRE A GRADING PERMIT UNLESS EXEMPTED.
- CONTOURS, ELEVATIONS, AND SHAPES OF FINISHED SURFACES SHALL BE BLENDED WITH ADJACENT NATURAL TERRAIN TO ACHIEVE A CONSISTENT GRADE AND NATURAL APPEARANCE. THE TOP OF CUT SLOPES SHALL BE ROUNDED OFF TO BLEND WITH THE NATURAL TERRAIN. BORDERS OF CUT SLOPES AND FILLS SHALL BE ROUNDED OFF TO A MINIMUM RADIUS OF 5-FEET TO BLEND WITH THE NATURAL TERRAIN.
- FILL MATERIAL SHALL NOT INCLUDE ORGANIC, FROZEN, OR OTHER DELETERIOUS MATERIALS. NO ROCK OR SIMILAR IRREDUCIBLE MATERIAL GREATER THAN 6 INCHES IN ANY DIMENSION SHALL BE INCLUDED IN FILLS EXCEPT WHERE APPROVED BY THE SOILS ENGINEER. FILLS SHALL BE CONSTRUCTED IN LIFTS NOT EXCEEDING 8 INCHES IN DEPTH. COMPLETED FILLS SHALL BE STABLE, WELL-INTEGRATED, AND BLENDED TO ADJACENT MATERIALS AND THE MATERIALS ON WHICH THEY REST. FILLS SHALL BE COMPETENT TO SUPPORT ANTICIPATED LOADS AND BE STABLE AT THE DESIGN SLOPES SHOWN ON THE APPROVED PLANS AND SPECIFICATIONS OR AS DIRECTED BY THE SOILS ENGINEER.
- GROUND SURFACES SHALL BE PREPARED TO RECEIVE FILL BY REMOVING VEGETATION, TOPSOIL, AND OTHER UNSUITABLE MATERIALS, AND SCARIFYING THE GROUND TO PROVIDE A BOND WITH THE FILL MATERIAL.
- FILL SHALL NOT BE PLACED ON NATURAL SLOPES STEEPER THAN 2H:1(V):1(S).
- FILLS INTENDED TO SUPPORT STRUCTURES OR SURCHARGES SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM D 1557, MODIFIED PROCTOR. A HIGHER COMPACTION PERCENTAGE MAY BE REQUIRED BY THE SOILS ENGINEER.
- FILLS NOT INTENDED TO SUPPORT STRUCTURES OR SURCHARGES SHALL BE COMPACTED AS FOLLOWS: (1) FILL GREATER THAN 3 FEET IN DEPTH SHALL BE COMPACTED TO THE DENSITY SPECIFIED BY THE SOILS ENGINEER. (2) FILLS NO GREATER THAN 3 FEET IN DEPTH SHALL BE COMPACTED TO THE DENSITY NECESSARY FOR THE INTENDED USE OR AS DIRECTED BY THE SOILS ENGINEER.
- ANY DISCREPANCY DISCOVERED BY CONTRACTOR IN THESE PLANS OR ANY FIELD CONDITIONS DISCOVERED BY CONTRACTOR THAT MAY DELAY OR OBSTRUCT THE PROPER COMPLETION OF THE WORK PER THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE CIVIL ENGINEER AND OWNER IMMEDIATELY UPON DISCOVERY. NOTIFICATION SHALL BE IN WRITING.

**EROSION PREVENTION AND SEDIMENT CONTROL NOTES**

- PERFORM EROSION PREVENTION AND SEDIMENT CONTROL IN ACCORDANCE WITH COUNTY OF MARIN REGULATIONS, WHICH FOLLOWS BEST MANAGEMENT PRACTICES (BMPs) AS SPECIFIED IN THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) MANUAL.
  - EROSION/SEDIMENT CONTROL MEASURES MUST BE INSTALLED AS THE FIRST ORDER OF WORK.
  - THE APPROVED PLANS SHALL CONFORM WITH MARIN COUNTY EROSION CONTROL REQUIREMENTS.
  - THE OWNER IS RESPONSIBLE FOR PREVENTING STORM WATER POLLUTION GENERATED FROM THE CONSTRUCTION SITE YEAR ROUND. WORK SITES WITH INADEQUATE EROSION AND SEDIMENT CONTROL MAY BE SUBJECT TO A STOP WORK ORDER.
  - IF DISCREPANCIES OCCUR BETWEEN THESE NOTES, MATERIAL REFERENCED HEREIN OR MANUFACTURER'S RECOMMENDATIONS, THEN THE MOST PROTECTIVE SHALL APPLY.
- RAINY SEASON OPERATIONS**
- THE OWNER MUST IMPLEMENT AN EFFECTIVE COMBINATION OF EROSION PREVENTION AND SEDIMENT CONTROL ON ALL DISTURBED AREAS DURING THE RAINY SEASON (OCTOBER 15 - APRIL 15). CONSTRUCTION GRADING AND DRAINAGE IMPROVEMENT SHALL BE PERMITTED DURING THE RAINY SEASON ONLY WHEN ON-SITE SOIL CONDITIONS PERMIT THE WORK TO BE PERFORMED IN COMPLIANCE WITH MARIN COUNTY STANDARD SPECIFICATIONS. STORM WATER BMPs REFERENCED OR DETAILED IN THE PERMIT AUTHORITY'S BEST MANAGEMENT PRACTICES GUIDE SHALL BE IMPLEMENTED AND FUNCTIONAL ON THE SITE AT ALL TIMES.
  - THE AREA OF ERODIBLE LAND EXPOSED AT ANY ONE TIME DURING THE WORK SHALL NOT EXCEED 1 ACRE OR 20% OF THE PERMITTED WORK AREA, WHICHEVER IS GREATER, AND THE TIME OF EXPOSURE SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE.
- YEAR ROUND REQUIREMENTS**
- DURING THE NON-RAINY SEASON, ON ANY DAY WHEN THE NATIONAL WEATHER SERVICE FORECAST IS A CHANCE OF RAIN OF 30% OR GREATER WITHIN THE NEXT 24 HOURS, STORM WATER BMPs REFERENCED OR DETAILED IN BASHA MANUAL OR WITHIN PLANS BEST MANAGEMENT PRACTICES GUIDE SHALL BE IMPLEMENTED, INSTALLED, AND FUNCTIONAL ON THE SITE TO PREVENT SOIL AND OTHER POLLUTANT DISCHARGES. AT ALL OTHER TIMES, BMPs SHOULD BE STORED ON SITE IN PREPARATION FOR INSTALLATION PRIOR TO RAIN EVENTS.
  - EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY THE OWNER BEFORE FORECASTED STORM EVENTS AND AFTER STORM EVENTS TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT HAVE FAILED OR ARE NO LONGER EFFECTIVE SHALL BE PROMPTLY REPLACED. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.
  - THE LIMITS OF GRADING SHALL BE DEFINED AND MARKED ON SITE TO PREVENT DAMAGE TO SURROUNDING VEGETATION. PRESERVATION OF EXISTING VEGETATION SHALL OCCUR TO THE MAXIMUM EXTENT PRACTICABLE. ANY UNEXPECTED UTILITIES OF GRADING THAT IS TO REMAIN UNDISTURBED BY THE WORK SHALL BE IDENTIFIED AND PROTECTED FROM DAMAGE BY MARKING, FENCING, OR OTHER MEASURES.
  - CHANGES TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN MAY BE MADE TO RESPOND TO FIELD CONDITIONS AND SHALL BE NOTED ON THE PLAN.
  - DISCHARGES OF POTENTIAL POLLUTANTS FROM CONSTRUCTION SITES SHALL BE PREVENTED USING SOURCE CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO SEDIMENT, TRASH, NUTRIENTS, PATHOGENS, PETROLEUM HYDROCARBONS, METALS, CONCRETE, CEMENT, ASPHALT, LIME, PAINT, STAINS, GLUES, WOOD PRODUCTS, PESTICIDES, HERBICIDES, CHEMICALS, HAZARDOUS WASTE, SANITARY WASTE, VEHICLE OR EQUIPMENT WASH WATER, AND CHLORINATED WATER.
  - ENTRANCES TO THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF POTENTIAL POLLUTANTS OFFSITE. POTENTIAL POLLUTANTS DEPOSITED ON PAVED AREAS WITHIN THE COUNTY RIGHT-OF-WAY, SUCH AS ROADWAYS AND SIDEWALKS, SHALL BE PROPERLY DISPOSED OF AT THE END OF EACH WORKING DAY OR MORE FREQUENTLY AS NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING CONSTRUCTION VEHICLES LEAVING THE SITE ON A DAILY BASIS TO PREVENT DUST, SILT, AND DIRT FROM BEING RELEASED OR TRACKED OFFSITE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AT THE END OF EACH WORKING DAY OR MORE OFTEN AS NECESSARY.
  - ALL DISTURBED AREAS SHALL BE PROTECTED BY USING EROSION PREVENTION MEASURES TO THE MAXIMUM EXTENT PRACTICABLE, SUCH AS ESTABLISHING VEGETATION COVERAGE, HYDROSEEDING, STRAW MULCH, GEOTEXTILES, PLASTIC COVERS, BLANKETS OR MATS. TEMPORARY OR PERMANENT REVEGETATION SHALL BE INSTALLED AS SOON AS PRACTICAL AFTER VEGETATION REMOVAL BUT IN ALL CASES PRIOR TO OCTOBER 15. PRIOR TO FINAL INSPECTION, ALL DISTURBED AREAS SHALL BE REVEGETATED OR LANDSCAPING SHALL BE INSTALLED.
  - WHENEVER IT IS NOT POSSIBLE TO USE EROSION PREVENTION MEASURES ON EXPOSED SLOPES, SEDIMENT CONTROL DEVICES SUCH AS FIBER ROLLS AND SILT FENCES SHALL BE INSTALLED TO PREVENT SEDIMENT MIGRATION. FIBER ROLLS AND SILT FENCES SHALL BE TRENCHED AND KEYED INTO THE SOIL AND INSTALLED ON CONTOUR. SILT FENCES SHALL BE INSTALLED APPROXIMATELY 2 TO 5 FEET FROM THE TOP OF SLOPE.
  - HYDROSEEDING SHALL BE CONDUCTED IN A THREE STEP PROCESS. FIRST, EVENLY APPLY SEED MIX AND FERTILIZER TO THE EXPOSED SLOPE. SECOND, EVENLY APPLY MULCH OVER THE SEED AND FERTILIZER. THIRD, STABILIZE THE MULCH IN PLACE. AN EQUIVALENT SINGLE STEP PROCESS, WITH SEED, FERTILIZER, WATER, AND BONDED FIBERS IS ACCEPTABLE.
- APPLICATIONS SHALL BE BROADCAST MECHANICALLY OR MANUALLY AT THE RATES SPECIFIED BELOW. SEED MIX AND FERTILIZER SHALL BE WORKED INTO THE SOIL BY ROLLING OR TAMPING. IF STRAW IS USED AS MULCH, STRAW SHALL BE DERIVED FROM WHEAT, RICE, OR BARLEY AND BE APPROXIMATELY 6 TO 8 INCHES IN LENGTH. STABILIZATION OF MULCH SHALL BE DONE HYDRAULICALLY BY APPLYING AN EMULSION OR MECHANICALLY BY CRIMPING OR PUNCHING THE MULCH INTO THE SOIL. EQUIVALENT METHODS AND MATERIALS MAY BE USED ONLY IF THEY ADEQUATELY PROMOTE VEGETATION GROWTH AND PROTECT EXPOSED SLOPES.
- | MATERIALS                                     | APPLICATION RATE (POUNDS PER ACRE) |
|---|------------------------------------|
| SEED MIX                                      |                                    |
| <i>Bromus mollis</i> (BLAND BROME)            | 40                                 |
| <i>Trifolium hybridum</i> (HYKON ROSE CLOVER) | 20                                 |
| FERTILIZER                                    |                                    |
| 16-20-0 & 1% SULPHUR                          | 50                                 |
| MULCH   |                                    |
| STRAW   | 4000                               |
| HYDRAULIC STABILIZER                          |                                    |
| M-BINDER OR SENTINEL                          | 75-100                             |
| EQUIVALENT MATERIAL                           | PER MANUFACTURER                   |
| *NON-ASPHALTIC, DERIVED FROM PLANTS           |                                    |
- DUST CONTROL SHALL BE PROVIDED BY CONTRACTOR DURING ALL PHASES OF CONSTRUCTION.
  - STORM DRAIN INLETS SHALL BE PROTECTED FROM POTENTIAL POLLUTANTS UNTIL DRAINAGE CONVEYANCE SYSTEMS ARE FUNCTIONAL AND CONSTRUCTION HAS BEEN COMPLETED.
  - ENERGY DISSIPATORS SHALL BE INSTALLED AT STORM DRAIN OUTLETS WHICH MAY CONVEY ERODIVE STORM WATER FLOW.
  - SOLID MATERIAL STOCKPILES, AND FERTILIZING MATERIAL SHALL BE PROPERLY PROTECTED TO MINIMIZE SEDIMENT AND POLLUTANT TRANSPORT FROM THE CONSTRUCTION SITE.
  - SOLID WASTE, SUCH AS TRASH, DISCARDED BUILDING MATERIALS AND DEBRIS, SHALL BE PLACED IN DESIGNATED COLLECTION AREA OR CONTAINERS. THE CONSTRUCTION SITE SHALL BE CLEARED OF SOLID WASTE DAILY OR AS NECESSARY. REGULAR REMOVAL AND PROPER DISPOSAL SHALL BE COORDINATED BY THE CONTRACTOR.
  - A CONCRETE WASHOUT AREA, SUCH AS A TEMPORARY PIT, SHALL BE DESIGNATED TO CLEAN CONCRETE TRUCKS AND TOOLS. AT NO TIME SHALL CONCRETE PRODUCTS AND WASTE BE ALLOWED TO ENTER COUNTY WATERWAYS SUCH AS CREEKS OR STORM DRAINS. NO WASHOUT OF CONCRETE, MORTAR MIXERS, OR TRUCKS SHALL BE ALLOWED ON SOIL.
  - PROPER APPLICATION, CLEANING, AND STORAGE OF POTENTIALLY HAZARDOUS MATERIALS, SUCH AS PAINTS AND CHEMICALS, SHALL BE CONDUCTED TO PREVENT THE DISCHARGE OF POLLUTANTS.
  - TEMPORARY RESTROOMS AND SANITARY FACILITIES SHALL BE LOCATED AND MAINTAINED DURING CONSTRUCTION ACTIVITIES TO PREVENT THE DISCHARGE OF POLLUTANTS.
  - APPROPRIATE VEHICLE STORAGE, FUELING, MAINTENANCE, AND CLEANING AREAS SHALL BE DESIGNATED AND MAINTAINED TO PREVENT DISCHARGE OF POLLUTANTS.

**GRADING AND DRAINAGE PLAN**

FOR  
**BOLINAS RV**  
 APN 193-020-38  
 200 MESA ROAD  
 BOLINAS, CA 94924



**AP MAP**

**OWNER**  
 BOLINAS COMMUNITY LAND TRUST  
 ARIANNE DAR, DIRECTOR  
 200 MESA ROAD  
 BOLINAS, CA 94924  
 (415) 868-9468

**CONTACT**  
 DVC GROUP, INC.  
 513 CENTER STREET  
 HEALDSBURG, CA 95448  
 (707) 395-0968

**PROJECT DESCRIPTION**

GRADING AND DRAINAGE PLANS FOR A NEW GRAVEL PARKING SPACES FOR 27 RV TRAILERS ALONG WITH ASSOCIATED UTILITIES, ALL AS PART OF A CONDITIONAL USE PERMIT TO CONSTRUCT A TEMPORARY CAMPGROUND.

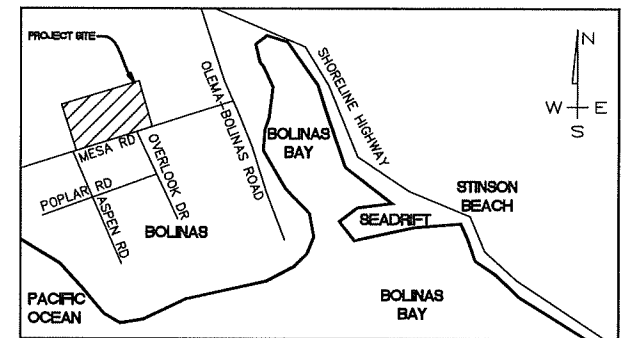
**SURVEY NOTES**

TOPOGRAPHIC INFORMATION SHOWN HEREON IS FROM A TOPOGRAPHICAL SURVEY BY CAPSTONE LAND SURVEYING, LLP DATED MAY 9, 2023.

- THE LOCATION OF UNDERGROUND STRUCTURES AND UTILITIES SHOWN HEREON HAS BEEN DETERMINED FROM SURFACE EVIDENCE OF THEIR EXISTENCE AND/OR FROM INFORMATION OBTAINED FROM PUBLIC AND/OR UTILITY AGENCIES. THE SURVEYOR ACCEPTS NO LIABILITY FOR THE LOCATION, EXISTENCE OR NON-EXISTENCE OF THOSE UNDERGROUND STRUCTURES, UTILITY LINES AND RELATED APPURTENANCES, ANY INDIVIDUAL, COMPANY OR AGENCY USING THIS MAP MUST CONFIRM THE LOCATION OF ALL UNDERGROUND LINES OR STRUCTURES PRIOR TO COMMENCING ANY EXCAVATION.
- THE CONTENT OF THIS MAP WAS DEFINED BY CONTRACT AT THE SPECIFIC REQUEST OF THE CLIENT(S) AND/OR THEIR CONSULTANT(S). THE SURVEYOR ACCEPTS NO LIABILITY FOR USE OF THIS MAP BY ANY ONE OTHER THAN THE CLIENT(S) AND/OR CONSULTANTS FOR WHOM IT WAS PREPARED.
- BOUNDARY INFORMATION SHOWN HEREON IS BASED ON A RECORD OF SURVEY (2021 RS 124) AND IS NOT PURPORTED TO BE A TRUE BOUNDARY SURVEY.
- THE ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) VIA CRTN.
- BASIS OF BEARINGS: RECORD OF SURVEY (2021 RD 124)

**ABBREVIATIONS/LEGEND**

AB	AGGREGATE BASE	PDE	PRIVATE STORM DRAIN EASEMENT	---	RECORD BOUNDARY LINE
AC	ASPHALT CONCRETE	PVI	POST INDICATOR VALVE	---	NEIGHBORING PROPERTY LINE
ANG	ANGLE	POC	POINT OF CONNECTION	---	---
BC	BEGIN CURVE	PSE	PRIVATE SEWER EASEMENT	---	---
BO	BLOW-OFF	PT	POINT OF TANGENCY	---	---
BSL	BUILDING SETBACK LINE	PUE	PUBLIC UTILITY EASEMENT	---	---
BSV	BACK OF SIDEWALK	PVC	POLYVINYLCHLORIDE PIPE	---	---
BVC	BEGIN VERTICAL CURVE	PVT	PRIVATE	---	---
BW	BOTTOM OF RETAINING WALL	R	RADIUS	---	---
CB	CATCH BASIN	R/W	RIGHT OF WAY	---	---
CONC	CONCRETE	RCP	REINFORCED CONCRETE PIPE	---	---
CPP	CORRUGATED PLASTIC PIPE	RET	RETAINING RETAINING WALL	---	---
CR	CURB RETURN	RPP	REDUCED PRESSURE BACK FLOW PREVENTER	---	---
DI	DROP INLET	S.A.D.	SEE ARCHITECTURAL DESIGN	---	---
DIP	DUCTILE IRON PIPE	SD	STORM DRAIN	---	---
DWV	DRIVEWAY	SDCO	STORM DRAIN CLEANOUT	---	---
EG	EXISTING GROUND	SDDI	STORM DRAIN DROP INLET	---	---
ELEV	ELEVATION	SDE	PUBLIC STORM DRAIN EASEMENT	---	---
EP	EDGE OF PAVEMENT	SDMH	STORM DRAIN MANHOLE	---	---
ESEM	EASEMENT	S.L.D	SEE LANDSCAPE DESIGN	---	---
EVC	END VERTICAL CURVE	S.S.D.	SEE STRUCTURAL DESIGN	---	---
(E)EX	EXISTING	SS	SANITARY SEWER	---	---
FC	FACE OF CURB	SSCO	SANITARY SEWER CLEANOUT	---	---
FG	FINISH GRADE	SSMH	SANITARY SEWER MANHOLE	---	---
FS	FINISH SURFACE	STA	STATION	---	---
GB	GRADE BREAK	STD	STANDARD	---	---
HDPE	HIGH DENSITY POLYETHYLENE	SW	SIDEWALK	---	---
HT	HEIGHT	SWE	SIDEWALK EASEMENT	---	---
MN	MARIN CO. SEWER DISTRICT	TC	TOP OF CURB	---	---
MWD	MARIN MUNICIPAL WATER DISTRICT	TG	TOP OF GRATE	---	---
PAE	STANDARD CITY MONUMENT PRIVATE ACCESS	TV	TOP OF RETAINING WALL	---	---
	MAINTENANCE, DRAINAGE, SIDEWALK, AND UTILITY EASEMENT	TYP	TYPICAL	---	---
PC	POINT OF CURVATURE	UNL	UNLESS NOTED OTHERWISE	---	---
PCC	PORTLAND CEMENT CONCRETE	W	WATER	---	---
		WL	WATER LINE	---	---
		WM	WATER METER	---	---
		WS	WATER SERVICE	---	---
		VC	VERTICAL CURVE	---	---



**LOCATION MAP**

**PROJECT SPECIFIC NOTES**

- ALL IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE UNIFORM CONSTRUCTION STANDARDS OF ALL CITIES AND COUNTY OF MARIN UNLESS NOTED OTHERWISE.
- ALL CRACKED, BROKEN OR UPLIFTED SIDEWALK AND/OR CURB/GUTTER FRONTING THE PROPERTY SHALL BE REPLACED. APPLICANT SHALL COORDINATE WITH THE DEPARTMENT OF PUBLIC WORKS PRIOR TO START OF THE PROJECT IMPROVEMENTS TO IDENTIFY THE EXTENTS AND LIMITS OF SIDEWALK REPLACEMENT. CONTACT DPW AT (415) 388-4033 FOR FURTHER INFORMATION.
- SHOULD CURB/GUTTER REQUIRE REPLACEMENT, CURB/GUTTER SHALL BE REPLACED WITH NEW CONCRETE CURB, GUTTER AND/OR DRIVEWAY APRON TO ENSURE PROPER DRAINAGE IS MAINTAINED. NEW CONCRETE GUTTER TO MATCH EXISTING CONCRETE GUTTER AND MAY REQUIRE ADDITIONAL ASPHALT TO MATCH EXISTING FLOW LINE. DRIVEWAY, CURB AND GUTTER ARE TO BE COORDINATED WITH DEPARTMENT OF PUBLIC WORKS PRIOR TO START OF CONSTRUCTION. CONTACT DPW AT (415) 388-4033.
- AN ENCRoACHMENT PERMIT (REVOCABLE) IS REQUIRED FROM THE PUBLIC WORKS DEPARTMENT FOR ALL WORK WITHIN THE RIGHT-OF-WAY. SHOULD A REVOCABLE ENCRoACHMENT PERMIT BE REQUIRED, IT SHALL BE RECORDED AT THE MARIN COUNTY RECORDER'S OFFICE PRIOR TO ANY CONSTRUCTION IN THE RIGHT-OF-WAY.
- AN ENCRoACHMENT SECURITY IN THE FORM OF A CERTIFICATE OF DEPOSIT (CDD) OR CASH IN THE AMOUNT OF WORK TO BE CONSTRUCTED IN THE RIGHT-OF-WAY SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT WITH THE ENCRoACHMENT PERMIT.
- APPLICANT IS RESPONSIBLE FOR USING BEST MANAGEMENT PRACTICES FOR THE CONSTRUCTION INDUSTRY (GENERAL CONSTRUCTION AND SITE SUPERVISION) BROCHURE AVAILABLE AT THE DEPARTMENT OF PUBLIC WORKS) TO PREVENT STORM WATER POLLUTION. APPLICANT SHALL BE RESPONSIBLE FOR ALL ENVIRONMENTAL DAMAGE RESULTING FROM THE CONSTRUCTION OF THIS PROJECT.
- ALL CONSTRUCTION MATERIAL, DEBRIS AND EQUIPMENT SHALL BE STORED ON SITE. IF THAT IS NOT PHYSICALLY POSSIBLE, AN ENCRoACHMENT PERMIT SHALL BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS PRIOR TO PLACING ANY CONSTRUCTION MATERIALS, DEBRIS, DEBRIS BOXES OR UNLICENSED EQUIPMENT IN THE RIGHT-OF-WAY. THE FEE FOR USING THE RIGHT-OF-WAY FOR STORAGE OF CONSTRUCTION MATERIALS OR EQUIPMENT IS \$100.00 PER DAY IN RESIDENTIAL AREAS, AND \$200.00 PER DAY IN COMMERCIAL AREAS. A MINIMUM OF 12' PASSABLE AUTO TRAFFIC CLEARANCE (PAVED TRAVEL WAY) SHALL BE MAINTAINED AT ALL TIMES ALONG THE ROADWAY. THE PLACING OF PORTABLE REST ROOM FACILITIES IN THE CITY RIGHT-OF-WAY WILL NOT BE PERMITTED.
- ALL SITE DRAINAGE SHALL BE DISSIPATED IN A MANNER THAT PREVENTS EROSION AND CONFORMS TO CURRENT STORM WATER PRACTICES IN MARIN COUNTY. THE APPLICANT IS RESPONSIBLE FOR ENSURING STORM WATER RUNOFF IS MAINTAINED IN ITS NATURAL PATH.
- TREES AND VEGETATION SHALL BE TRIMMED ACCORDING TO SECTION 11.24.090 OF THE MILL VALLEY MUNICIPAL CODE. TREES AND SHRUBS SHALL BE KEPT TRIMMED SO THAT THE LOWEST BRANCHES PROJECTING OVER PUBLIC PROPERTIES PROVIDE A CLEARANCE OF NOT LESS THAN EIGHT (8) FEET. BUSHES AND OTHER VEGETATION SHALL BE TRIMMED SO NO PORTION HANGS OVER THE SIDEWALK, OR THE ROAD IF NO SIDEWALK IS PRESENT.
- ALL VEHICLES MUST STAY OFF OF PROPOSED SEPTIC MOUND LOCATION.
- OBTAIN ENCRoACHMENT PERMIT PRIOR TO CONSTRUCTION WITHIN THE MESA ROAD COUNTY RIGHT OF WAY.
- PROJECT PARCEL HAS NO MAIL DELIVERY SERVICE BECAUSE BOLINAS HAS NO MAIL DELIVERY SERVICE AND INSTEAD RECEIVES MAIL THROUGH THE POST OFFICE AT STINSON BEACH.
- PROPOSED FIRE HYDRANT IS TO BE INSTALLED PER MARIN COUNTY STANDARDS, TESTED AND OPERATION PRIOR TO COMPLETION.

**EARTHWORK:**

AREA	CUT	FILL	NET
TOTAL	1,000 CY	1,000 CY	0 CY <BALANCED>

- NOTES:
- THE QUANTITIES LISTED ARE THE ENGINEER'S ESTIMATE OF SURFACE GRADING ONLY. ADDITIONAL SUBSURFACE GRADING WILL BE REQUIRED FOR BENCHING, KEYWAYS, ETC.
  - CONTRACTOR IS RESPONSIBLE FOR THEIR OWN EARTHWORK QUANTITIES.
  - NO EXPANSION/CONTRACTION FACTORS HAVE BEEN APPLIED. EXPANSION AND/OR CONTRACTION MAY BE EXPERIENCED DUE TO ACTUAL FIELD CONDITIONS.
  - ANY EXCESS MATERIAL SHALL BE DISPOSED OF ON SITE UNDER THE DIRECTION OF THE PROJECT SOILS ENGINEER AND COORDINATED WITH THE PROJECT CIVIL ENGINEER.
  - APPROX. DISTURBED AREA OF SITE 112.4G (48,772 SF±)

**INDEX OF DRAWINGS**

- C1 COVER SHEET
- C2 OVERALL SITE PLAN
- C3 GRADING AND DRAINAGE PLAN
- C4 UTILITY PLAN
- C5 EROSION CONTROL PLAN AND DETAILS
- C6 CONSTRUCTION MANAGEMENT PLAN
- C7 DETAILS

DATE: \_\_\_\_\_ BY: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_ REVISION: \_\_\_\_\_

**MUNSELLE CIVIL ENGINEERING**  
 CIVIL ENGINEERING & SURVEYING  
 PLANNING & CONST. MANAGEMENT  
 1000 S. GARDNER STREET  
 HEALDSBURG, CA 95448  
 (707) 395-0968

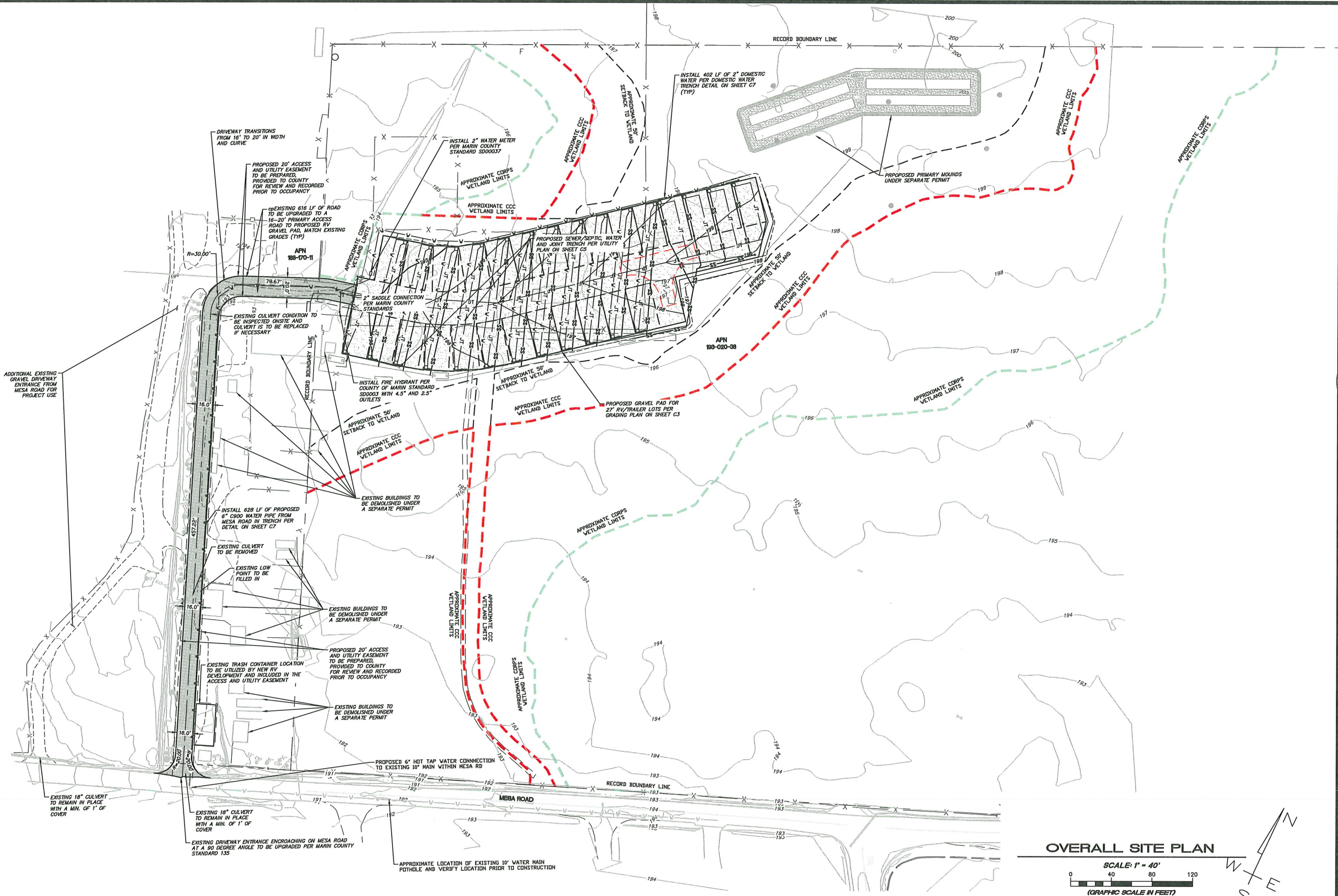
**DANIEL J. HUGHES**  
 REGISTERED PROFESSIONAL ENGINEER - CIVIL  
 No. 60225  
 STATE OF CALIFORNIA

**BOLINAS RV COVER SHEET**  
 APN 193-020-38  
 200 MESA ROAD  
 BOLINAS, CA 94924

SEPTEMBER 1, 2023  
 JOB NO. 124-23  
 SHEET NO. C1  
 OF 7 SHEETS

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REVISION	DESCRIPTION	BY	DATE

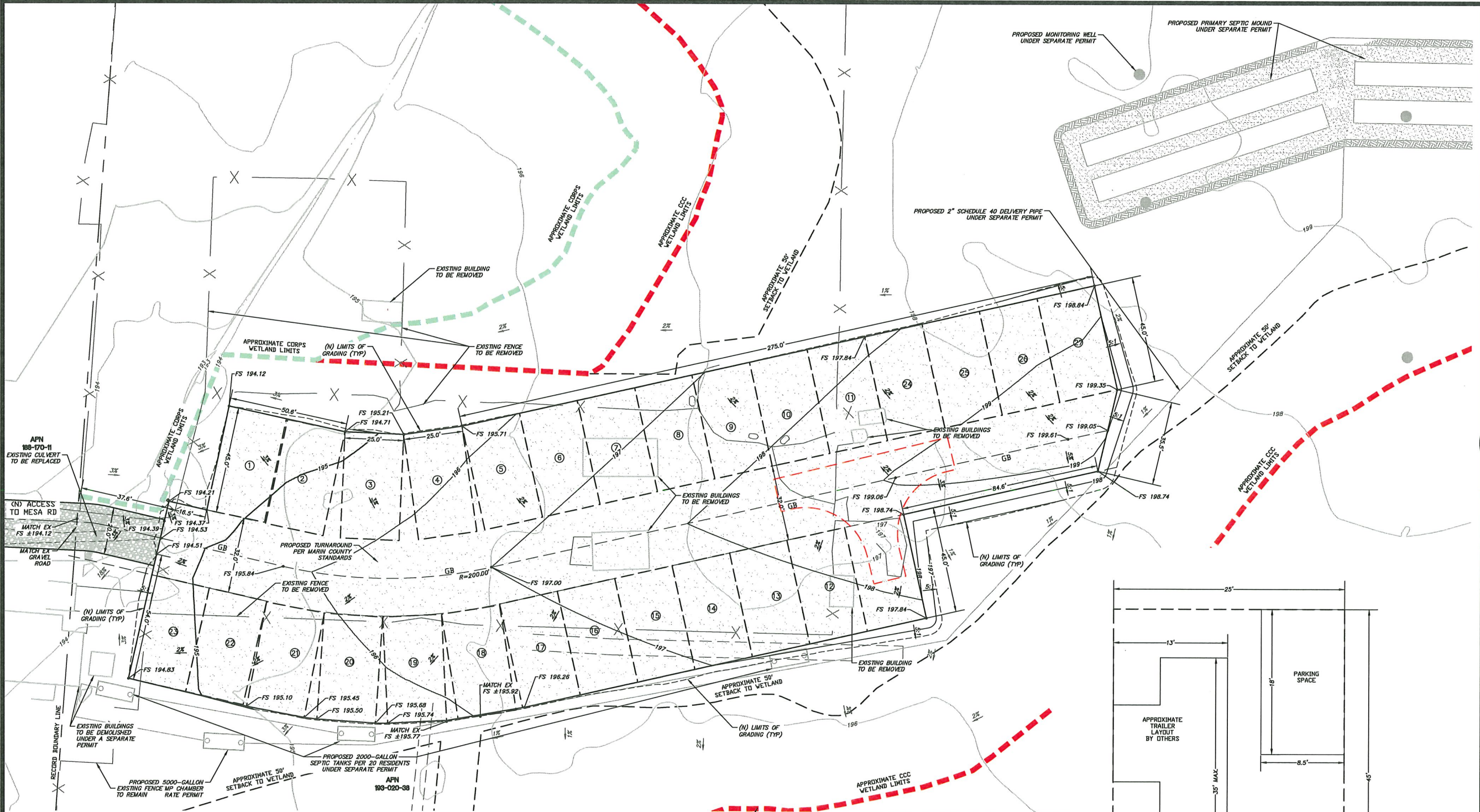
**MUNSELLE CIVIL ENGINEERING**  
 ♦ CIVIL ENGINEERING ♦ SURVEYING ♦  
 ♦ PLANNING ♦ CONST. MANAGEMENT ♦  
 618 CENTER STREET  
 HEALDSBURG, CA 95448  
 (707) 995-0968

**DANIEL JOHN HUGHES**  
 REGISTERED PROFESSIONAL ENGINEER - CIVIL  
 No. 60225  
 DATE: 09/01/2023

**BOLINAS RV OVERALL SITE PLAN**  
 APN 193-020-08  
 200 MESA ROAD  
 BOLINAS, CA 94924

SEPTEMBER 1, 2023  
 JOB NO. 124-23  
 SHEET NO. **C2**  
 OF 7 SHEETS

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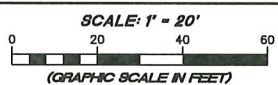


**LEGEND**

- 6" CLASS II AB 95% RC
- 12" CLASS II AB 95% RC
- PROPOSED RV SPACE NUMBER (27 TOTAL) PER DETAIL ON THIS SHEET

- GRADING AND DRAINAGE NOTES**
- ALL PAVED AND UNPAVED FINISHED SURFACES SHALL HAVE POSITIVE DRAINAGE.
  - ALL WORK SHALL COMPLY WITH BEST MANAGEMENT PRACTICES TO PREVENT STORM WATER CONTAMINATION.

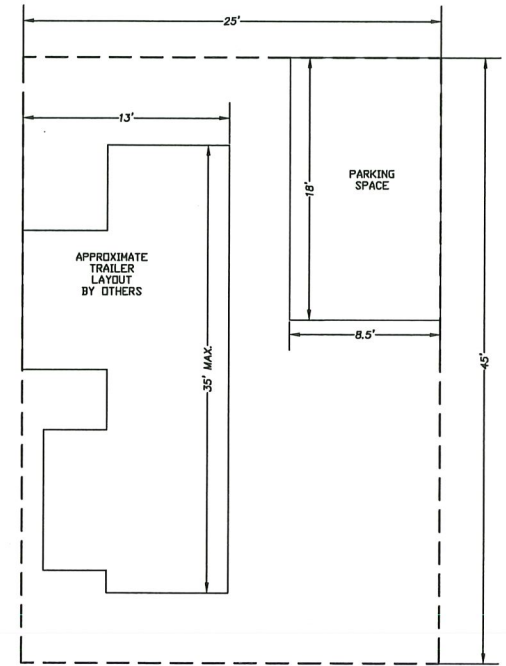
**GRADING AND DRAINAGE PLAN**



**STORM WATER TREATMENT (BASMAA) NOTES:**

- PER COUNTY OF MARIN REQUIREMENTS, THE PROJECT IS REQUIRED TO COMPLY WITH THE BASMAA POST-CONSTRUCTION MANUAL. THE MANUAL DOES NOT REQUIRE ANY SPECIAL MEASURES OR THE INSTALLATION OF ANY STORM WATER TREATMENT FACILITIES (SUCH AS BIORETENTION) BECAUSE THE AMOUNT OF IMPERVIOUS AREA BEING INSTALLED IS LESS THAN 2,500 SF.
- ALTHOUGH NOT SPECIFICALLY REQUIRED BY BASMAA, THE PROJECT DESIGN DOES INCORPORATE THE FOLLOWING BASMAA MEASURES:
  - MINIMIZE IMPERVIOUS SURFACES (PERVIOUS LANDSCAPE MATERIALS INSTEAD OF IMPERVIOUS HARDSCAPE)
  - REDUCE RUNOFF (DRY WELL)
  - CONSERVE NATURAL AREAS OF THE SITE (GRADING LIMITS LIMITED TO BUILDING ENVELOPE)
  - PROTECT SLOPES AGAINST EROSION (EROSION CONTROL AND DRY WELL)

PROPOSED PERVIOUS/IMPERVIOUS AREAS		
	100% IMPERV. (SF)	100% PERV. (SF)
ROOF/CONC/STONE (PROPOSED)	0 SF	
ROOF/CONC/STONE (EX. TO REMAIN)	0 SF	
GROUND/LAWN/PERM. PAVERS		47,479 SF
PROPOSED NEW/REPLACED IMPERVIOUS AREA	0 SF	
TOTAL PROPOSED IMPERVIOUS AREA	0 SF	



**TYPICAL RV LOT LAYOUT**  
NO SCALE

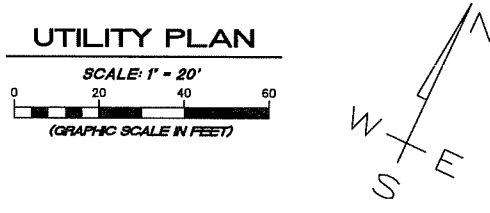
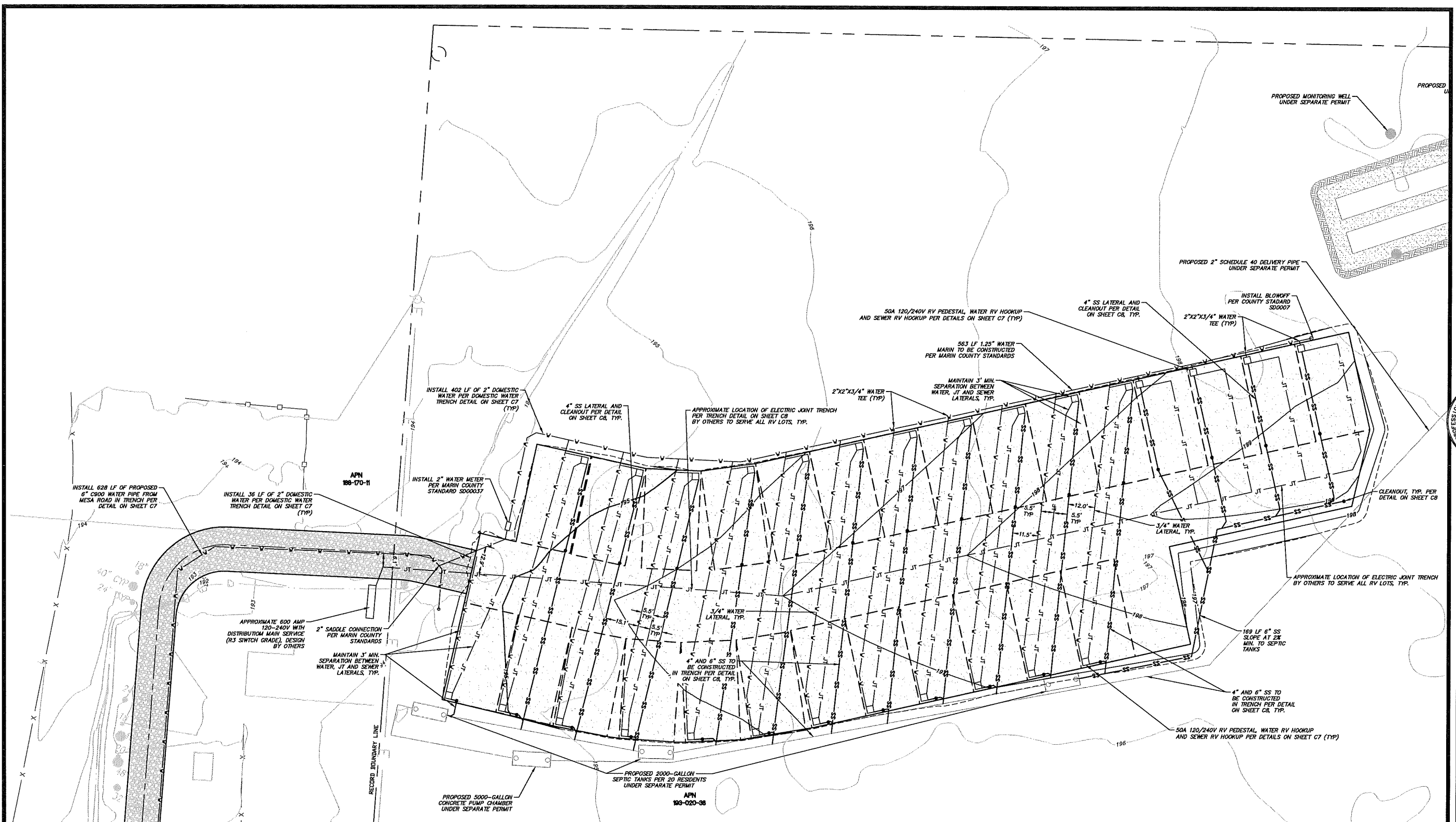
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**MUNSELLE CIVIL ENGINEERING**  
 CIVIL ENGINEERING & SURVEYING & PLANNING & CONST. MANAGEMENT & SIG CENTER STREET HEALDSBURG, CA 95448  
 (707) 995-0868

**DANIEL JOHN HUCKES**  
 REGISTERED PROFESSIONAL ENGINEER - CIVIL  
 No. 60225  
 STATE OF CALIFORNIA  
 DATE: \_\_\_\_\_

**BOLINAS RV GRADING AND DRAINAGE PLAN**  
 APN 89-080-98  
 200 MESA ROAD  
 BOLINAS, CA 94924

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REVISION	DESCRIPTION	BY	DATE

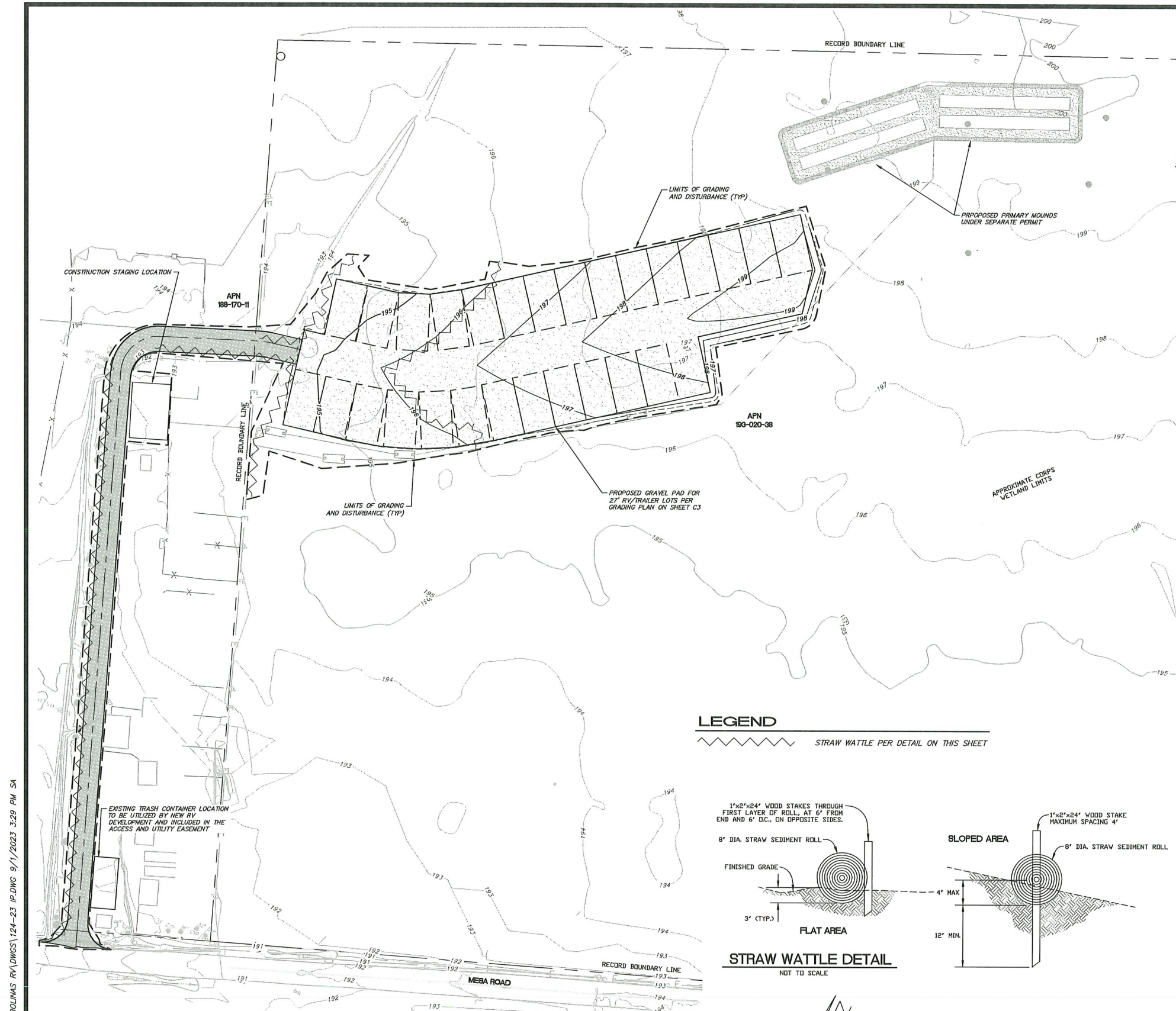
**MUNSELLE CIVIL ENGINEERING**  
 CIVIL ENGINEERING & SURVEYING  
 PLANNING & CONST. MANAGEMENT  
 515 CENTER STREET  
 HEALDSBURG, CA 95448  
 (707) 985-0968

**DANIEL JOHN HUGHES**  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 60225  
 STATE OF CALIFORNIA  
 CIVIL ENGINEER

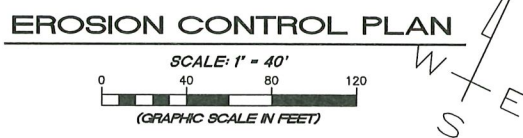
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**BOLINAS RV UTILITY PLAN**  
 APN 189-020-38  
 200 MESA ROAD  
 BOLINAS, CA 94924

SEPTEMBER 1, 2023  
 JOB NO. 124-23  
 SHEET NO. **C4**  
 OF 7 SHEETS

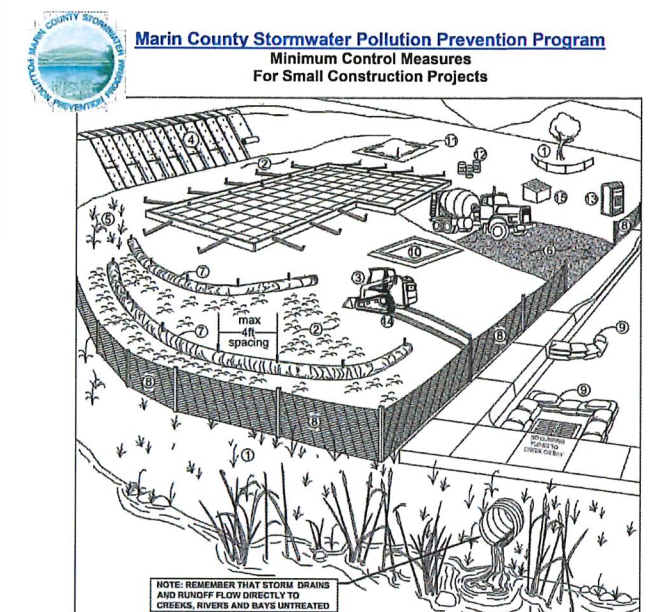
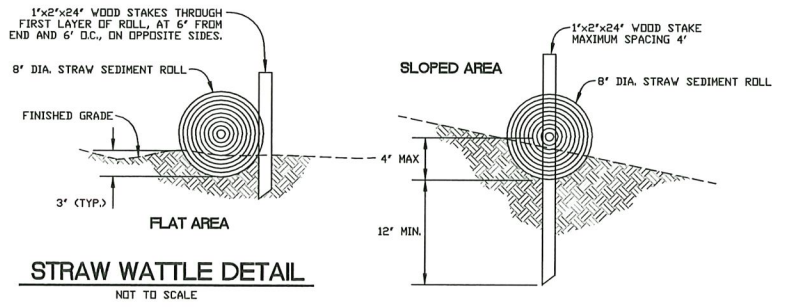


- NOTES:**
1. THE GEOTECHNICAL ENGINEER MUST MONITOR EROSION AND SEDIMENT CONTROL MEASURES ON A MONTHLY BASIS, AS WELL AS BEFORE AND AFTER A RAIN EVENT. MONTHLY MONITORING REPORTS FROM THE GEOTECHNICAL ENGINEER SHALL BE MAINTAINED AT THE JOB SITE AT ALL TIMES.
  2. EROSION AND SEDIMENT CONTROL MEASURES MUST BE PLACED ON EXPOSED AREAS WHEN RAIN IS WITHIN A 5 DAY FORECAST.



**LEGEND**

~~~~~ STRAW WATTLE PER DETAIL ON THIS SHEET



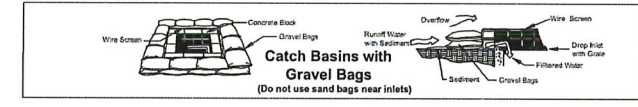
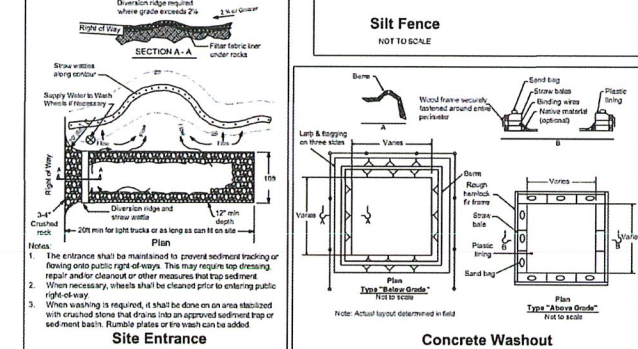
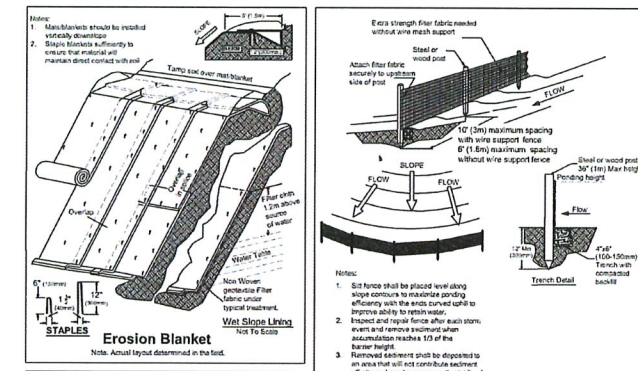
| Erosion Controls                         |                           | Sediment Controls                     |                                       | Good Housekeeping                     |                                       |
|------------------------------------------|---------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| 1. Preserve Vegetation & Creek Set Backs | 6. Tracking Controls      | 10. Concrete Washout                  | 11. Stockpile Management              | 12. Hazardous Material Management     | 13. Sanitary Waste Management         |
| 2. Soil Cover                            | 7. Fiber Rolls            | 11. Trench Dewatering                 | 12. Hazardous Material Management     | 13. Sanitary Waste Management         | 14. Equipment and Vehicle Maintenance |
| 3. Soil Preparation/ Roughening          | 8. Silt Fence             | 12. Concrete Washout                  | 13. Sanitary Waste Management         | 14. Equipment and Vehicle Maintenance | 15. Litter and Waste Management       |
| 4. Erosion Control Blankets              | 9. Drain Inlet Protection | 13. Sanitary Waste Management         | 14. Equipment and Vehicle Maintenance | 15. Litter and Waste Management       |                                       |
| 5. Revegetation                          | NS Trench Dewatering      | 14. Equipment and Vehicle Maintenance | 15. Litter and Waste Management       |                                       |                                       |

NS=not shown on graphic

Note: Select an effective combination of control measures from each category, Erosion Control, Sediment Control, and Good Housekeeping. Control measures shall be continually implemented and maintained throughout the project until activities are complete, disturbed areas are stabilized with permanent erosion controls, and the local agency has signed off on permits that may have been required for the project. Inspect and maintain the control measures before and after rain events, and as required by the local agency or state permit.

More detailed information on the BMPs can be found in the related California Stormwater Quality Association (CASQA) and California Department of Transportation (Caltrans) BMP Factsheets. CASQA factsheets are available by subscription to the California Best Management Practices Handbook Portal: Construction at <http://www.casqa.org>, Caltrans factsheets are available in the Construction Site BMP Manual March 2003 at <http://www.dot.ca.gov/hq/construct/stormwater/manuals.htm>. Visit [www.mcatopp.org](http://www.mcatopp.org) for more information on construction site management and Erosion and Sediment Control Plans.

If you require materials in alternative formats, please contact:  
415-473-4381 voice/TTY or [disabilityaccess@co.marin.ca.us](mailto:disabilityaccess@co.marin.ca.us)



**MARIN COUNTY STORMWATER POLLUTION PREVENTION PROGRAM**  
Minimum Control Measures  
For Small Construction Projects

**MUNSELLE CIVIL ENGINEERING**  
CIVIL ENGINEERING & SURVEYING  
PLANNING & CONST. MANAGEMENT  
515 CENTER STREET  
HEALDSBURG, CA 95448  
(707) 995-0968

DATE: \_\_\_\_\_  
BY: \_\_\_\_\_  
REVISION: \_\_\_\_\_

**DANIEL JOHN HUGHES**  
REGISTERED PROFESSIONAL ENGINEER - CIVIL  
No. 60225  
DATE: \_\_\_\_\_  
PROJECT: BOLINAS RV EROSION CONTROL PLAN AND DETAILS

**BOLINAS RV EROSION CONTROL PLAN AND DETAILS**

APN 190-020-98  
200 MESA ROAD  
BOLINAS, CA 94924

SEPTEMBER 1, 2023

JOB NO. 124-23

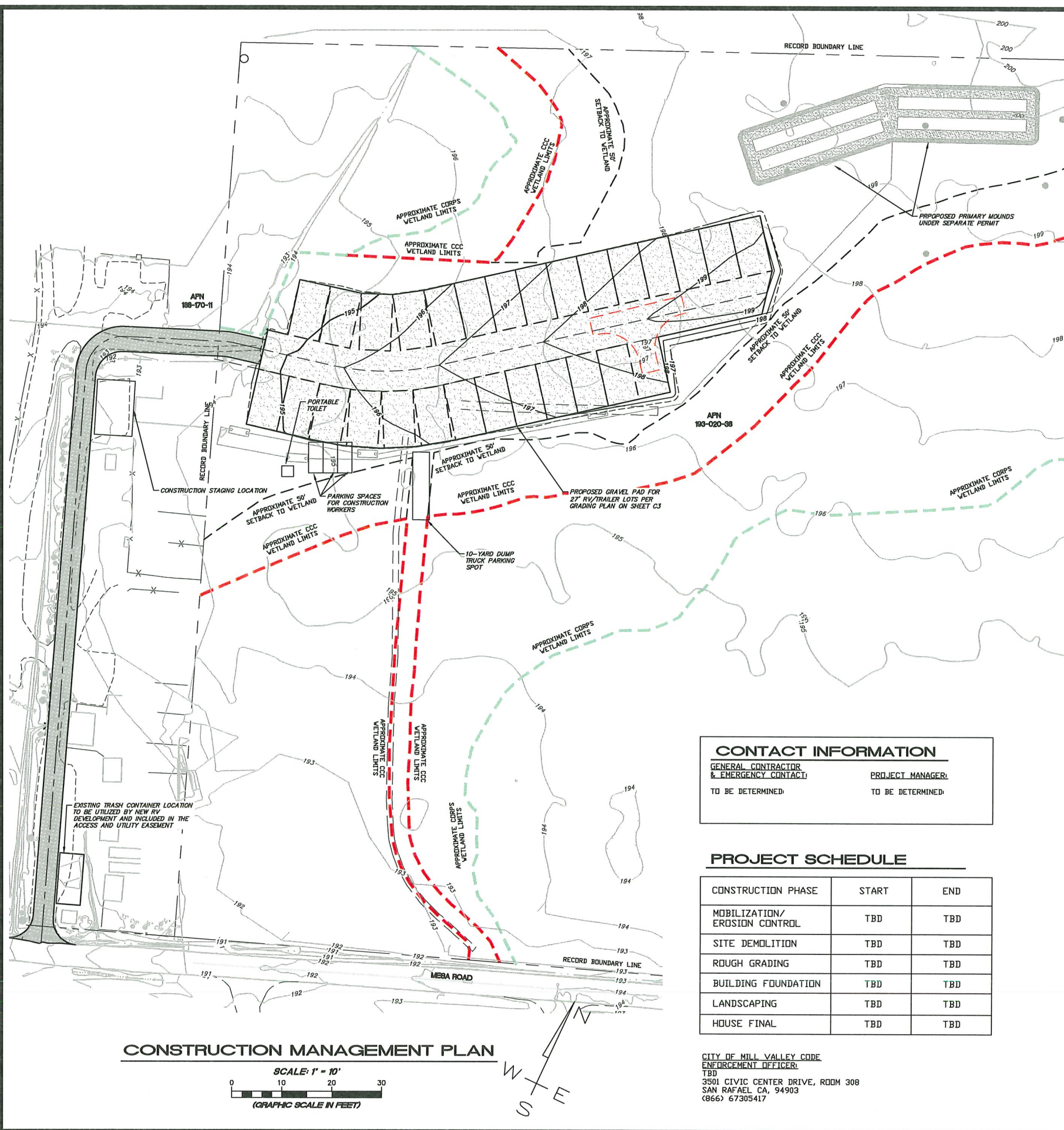
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OF 7 SHEETS

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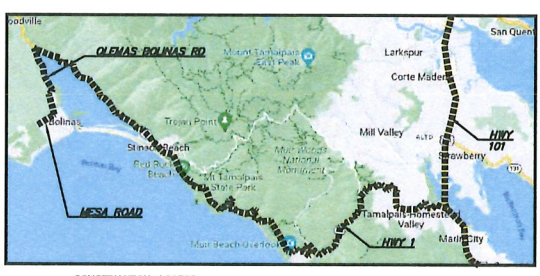


**CONSTRUCTION MANAGEMENT NOTES**

1. SEQUENCING PLAN STRATEGY HAS BEEN DEVELOPED IN AN ATTEMPT TO MINIMIZE UTILIZATION OF PUBLIC RIGHT OF WAY (MESA ROAD). EQUIPMENT AND MAJORITY OF OPERATION WILL BE CONTAINED WITHIN THE PROJECT SITE. THERE WILL BE EVENTS (SUCH AS DELIVERIES OF EQUIPMENT AND MATERIALS, SHORT TASK SPECIFIC WORK AND ACCESS FOR WORK IMMEDIATELY ADJACENT TO THE RIGHT OF WAY.
2. GRADING OPERATIONS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF THE PROJECT GEOTECHNICAL ENGINEER.
3. THIS PLAN SHALL BE A BINDING DOCUMENT. FAILURE TO ADHERE TO THE PLAN MAY RESULT IN A 'STOP WORK NOTICE' BEING PLACED ON THE PROJECT. THIS PLAN SHALL BE UPDATED AS PROJECT CONDITIONS CHANGE. UPDATES TO PLAN SHALL BE PROVIDED TO THE DEPARTMENT OF PUBLIC WORKS FOR REVIEW AND APPROVAL.
4. CONTRACTOR MUST CONTACT THE DEPARTMENT OF PUBLIC WORKS TO OBTAIN A LANE CLOSURE, ROAD CLOSURE AND/OR A TRANSPORTATION PERMIT IF CONSTRUCTION VEHICLES EXCEEDING 26 FEET IN LENGTH ARE REQUIRED AT ANY TIME DURING THE CONSTRUCTION PERIOD.
5. CONSTRUCTION HOURS:  
8 AM TO 5 PM MONDAY THROUGH FRIDAY. POWER TOOLS AND EQUIPMENT USE IS LIMITED FROM 8 AM TO 5 PM MONDAY THROUGH FRIDAY. CONSTRUCTION WORK IS NOT ALLOWED ON WEEKENDS AND HOLIDAYS.
6. TRUCK ROUTE:  
USE THE COUNTY'S DESIGNATED TRUCK ROUTE - FROM HIGHWAY 101 EXIT WEST ON HIGHWAY 1, LEFT ON OLEMA BOLINAS ROAD, RIGHT ON MESA ROAD.
7. DELIVERIES / OFF-HAUL:  
DELIVERY AND OFF-HAUL (INCLUDING EQUIPMENT, MATERIALS, REMOVAL OF SOIL, REFUSE, OR DEMOLITION DEBRIS) HOURS ARE LIMITED TO BETWEEN 9:30 AM AND 2:30 PM FOR SCHOOL ZONES, AND LIMITED TO BETWEEN 9:30 AM AND 3:00 PM ON WEEKDAYS FOR SITES IN IMPACTED NEIGHBORHOODS. FOR TRUCKS EXCEEDING 26 FEET IN LENGTH, A TRANSPORTATION PERMIT MUST BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS A MINIMUM OF 72 HOURS IN ADVANCE.
8. ROAD / LANE CLOSURES:  
ROAD CLOSURES WILL ONLY BE PERMITTED WITH PRIOR AUTHORIZATION OF THE DEPARTMENT OF PUBLIC WORKS CONSISTENT WITH THE CITY'S ROAD CLOSURE POLICY. PERSONS WANTING TO CLOSE THE ROAD ARE REQUIRED TO PROVIDE WRITTEN NOTIFICATION TO AFFECTED PROPERTY OWNERS AND NEIGHBORS. SIGNS CONTAINING DETAILS OF THE PROPOSED CLOSURE MUST BE POSTED 48 HOURS IN ADVANCE. COORDINATE TRAFFIC CONTROL AND ALL TEMPORARY ROAD CLOSURES WITH THE MILL VALLEY DEPARTMENT OF PUBLIC WORKS. CONTACT THE DEPARTMENT OF PUBLIC WORKS AT 388-4033 TO OBTAIN A ROAD CLOSURE PERMIT. A TRAFFIC DETOUR PLAN WILL BE REQUIRED FOR ANY ROAD CLOSURES. THE DETOUR PLAN SHALL BE SUBMITTED TO THE DEPARTMENT OF PUBLIC WORKS FOR REVIEW AND APPROVAL.
9. PARKING:  
ALL WORKER VEHICLES SHOULD PARK AT THE JOB SITE OR CARPOOL. VEHICLE PARKING IN THE PUBLIC RIGHT OF WAY AT OR NEAR THE JOB SITE WILL REQUIRE A PARKING PLACARD FROM THE MILL VALLEY POLICE DEPARTMENT.
10. ENFORCEMENT:  
1ST VIOLATION OF ANY PORTION OF THE APPROVED CONSTRUCTION MANAGEMENT PLAN OR APPLICABLE CONSTRUCTION MANAGEMENT REQUIREMENTS WILL BE ADDRESSED BY A WRITTEN WARNING FROM THE CITY. ANY FURTHER OR SUBSEQUENT VIOLATIONS WILL BE ADDRESSED BY A 'STOP WORK ORDER'.
11. CONSTRUCTION TRAFFIC AT SITE:  
CONSTRUCTION TRAFFIC AND/OR STAGING ON CORTE MADERA AVENUE IS PROHIBITED EXCEPT IN LIMITED CASES WHERE ABSOLUTELY NECESSARY FOR CONSTRUCTION. SHOULD CORTE MADERA AVENUE ACCESS TO THE SITE BE REQUIRED FOR MORE THAN A 30 MINUTE PERIOD PROJECT MANAGER MUST NOTIFY NEIGHBORS 48 HOURS IN ADVANCE.
12. STOCKPILE AND STAGING OF MATERIALS:  
STOCKPILING AND STAGING WILL BE RELOCATED AS NECESSARY DURING DIFFERENT PHASES OF THE PROJECT. ANTICIPATED LOCATIONS ARE SHOWN ON THE PLAN AND DESCRIBED AS BELOW. CONTRACTOR IS ALLOWED FLEXIBILITY IN LOCATIONS AND TIMING TO FACILITATE CONSTRUCTION.



**CARPOOL PARKING**



**CONSTRUCTION TRAFFIC AND TRUCK ROUTE**  
NO SCALE

**CONTACT INFORMATION**

|                                                             |                                      |
|-------------------------------------------------------------|--------------------------------------|
| GENERAL CONTRACTOR & EMERGENCY CONTACT:<br>TO BE DETERMINED | PROJECT MANAGER:<br>TO BE DETERMINED |
|-------------------------------------------------------------|--------------------------------------|

**PROJECT SCHEDULE**

| CONSTRUCTION PHASE            | START | END |
|-------------------------------|-------|-----|
| MOBILIZATION/ EROSION CONTROL | TBD   | TBD |
| SITE DEMOLITION               | TBD   | TBD |
| ROUGH GRADING                 | TBD   | TBD |
| BUILDING FOUNDATION           | TBD   | TBD |
| LANDSCAPING                   | TBD   | TBD |
| HOUSE FINAL                   | TBD   | TBD |

CITY OF MILL VALLEY CODE ENFORCEMENT OFFICER:  
TBD  
3501 CIVIC CENTER DRIVE, ROOM 308  
SAN RAFAEL CA, 94903  
(866) 67305417

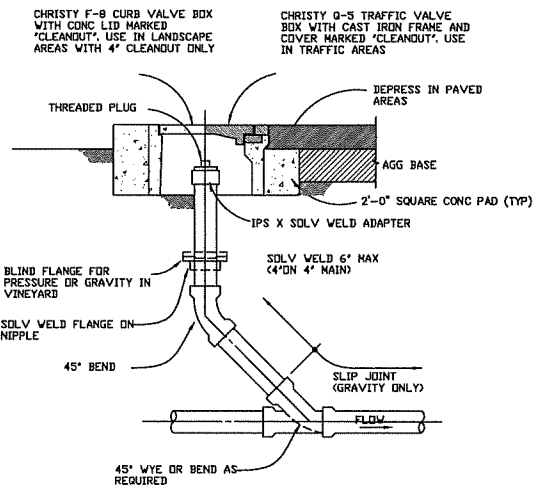
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|----------|-------------|------|
| REVISION | DESCRIPTION | DATE |
|          |             |      |
|          |             |      |
|          |             |      |

**MUNSELLE CIVIL ENGINEERING**  
 CIVIL ENGINEERING & SURVEYING  
 PLANNING & CONST. MANAGEMENT  
 515 CENTER STREET  
 HEALDSBURG, CA 95448  
 (707) 995-0968

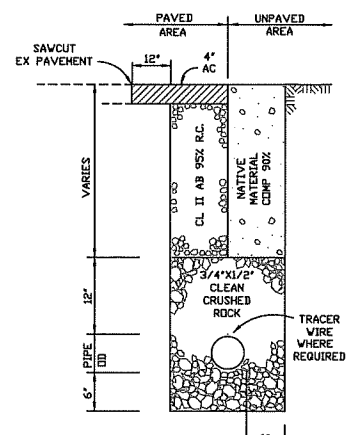
**DANIEL JOHN HUGHES**  
 REGISTERED PROFESSIONAL CIVIL ENGINEER  
 No. 60225  
 DATE: \_\_\_\_\_

**BOLINAS RV CONSTRUCTION MANAGEMENT PLAN**  
 APN 193-020-08  
 200 MESA ROAD  
 BOLINAS, CA 94924

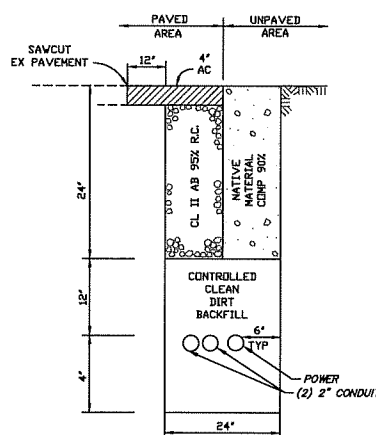
SEPTEMBER 1, 2023  
 JOB NO. 124-23  
 SHEET NO. **C6**  
 OF 7 SHEETS



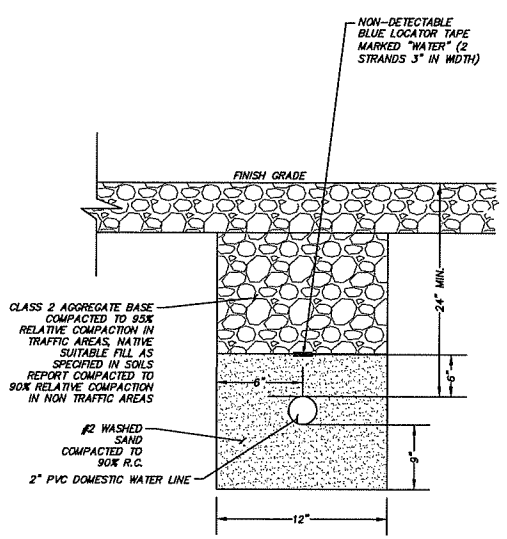
**CLEANOUT DETAIL**  
NO SCALE



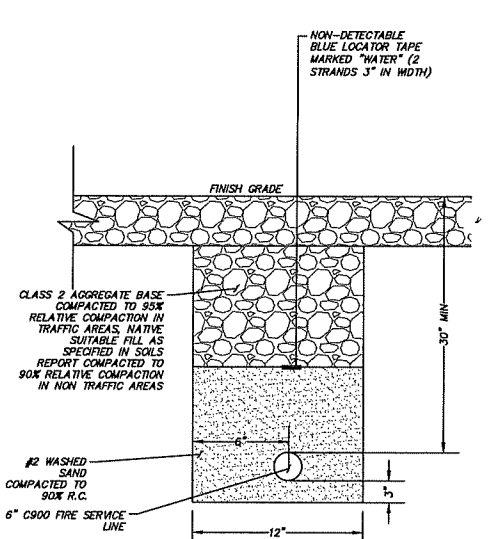
**SANITARY SEWER**  
NO SCALE



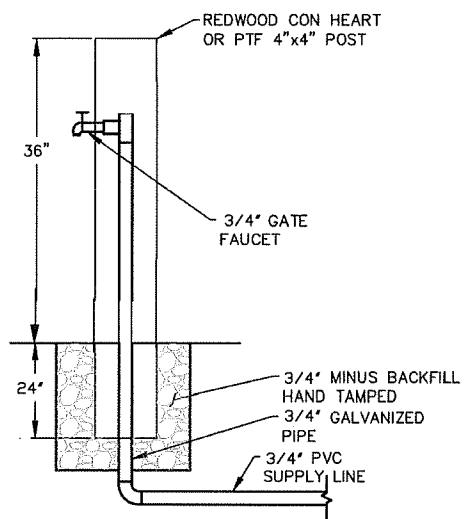
**TYPICAL JOINT TRENCH**  
NO SCALE



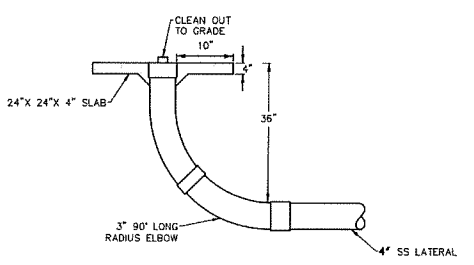
**DOMESTIC WATER TRENCH**  
NO SCALE



**FIRE WATER TRENCH**  
NO SCALE



**RV WATER SERVICE CONNECTION**  
NO SCALE

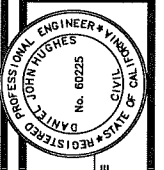


- NOTES:**
1. THE LOT DRAIN SHALL BE LOCATED WITHIN FOUR (4) FEET OF THE OUTSIDE OF THE UNIT OR UNDER THE UNIT WITHIN 18" OF THE EXTERIOR WALL OF THE UNIT.
  2. WHEN A UNIT IS CONNECTED, INSTALLED, PROPOSED TO BE INSTALLED AND IT'S PLUMBING FIXTURES ARE NOT PROTECTED BY APPROVED TRAPS & VENTS, A LOT DRAIN INLET SHALL BE PROVIDED WITH AN APPROVED TRAP

**RV SEPTIC DRAIN INLET CONNECTION**  
NO SCALE

| REVISION | DESCRIPTION | BY | DATE |
|----------|-------------|----|------|
|          |             |    |      |

**MUNSELLE CIVIL ENGINEERING**  
 CIVIL ENGINEERING & SURVEYING  
 CIVIL ENGINEERING & CONSTRUCTION MANAGEMENT  
 515 CENTER STREET  
 HEALDSBURG, CA 95448  
 (707) 995-0968



*Daniel John Hughes*  
 DANIEL JOHN HUGHES  
 DATE  
 P.C.E. 60225

**BOLINAS RV DETAILS**  
 APN 80-080-38  
 200 MESA ROAD  
 BOLINAS, CA 94024

SEPTEMBER 1, 2023  
 JOB NO.  
 124-23  
 SHEET NO.

**C7**  
 OF 7 SHEETS

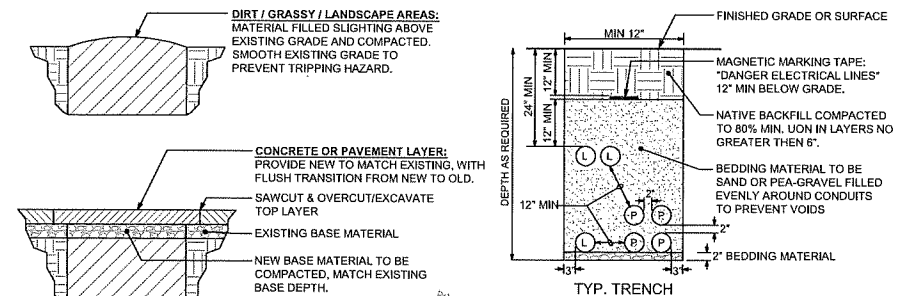
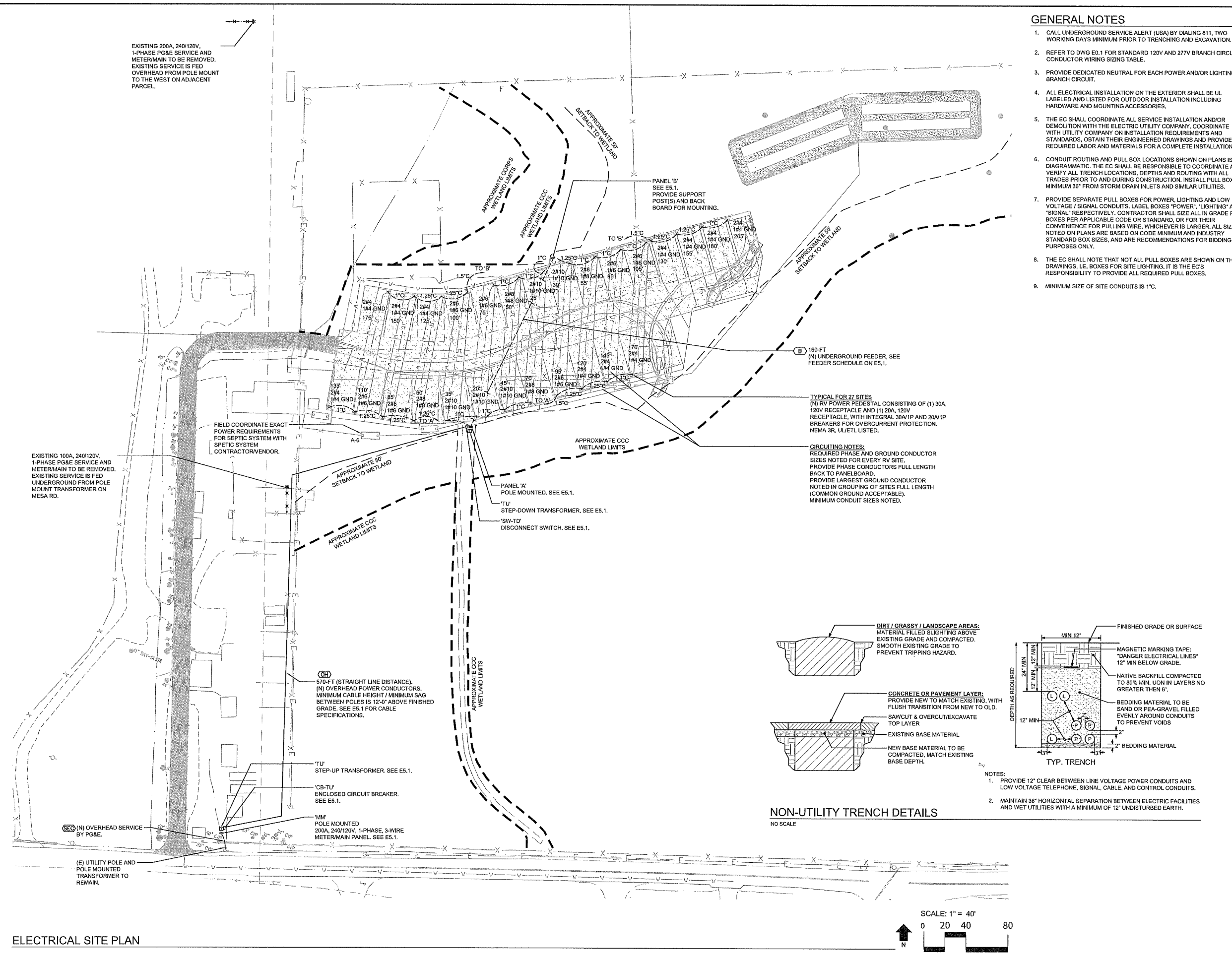




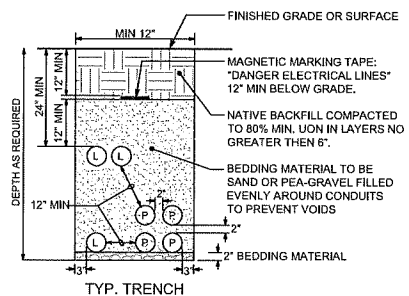
## GENERAL NOTES

1. CALL UNDERGROUND SERVICE ALERT (USA) BY DIALING 811. TWO WORKING DAYS MINIMUM PRIOR TO TRENCHING AND EXCAVATION.
2. REFER TO DWG. E1 FOR STANDARD 120V AND 277V BRANCH CIRCUIT CONDUCTOR WIRING SIZING TABLE.
3. PROVIDE DEDICATED NEUTRAL FOR EACH POWER AND/OR LIGHTING BRANCH CIRCUIT.
4. ALL ELECTRICAL INSTALLATION ON THE EXTERIOR SHALL BE UL LABELED AND LISTED FOR OUTDOOR INSTALLATION INCLUDING HARDWARE AND MOUNTING ACCESSORIES.
5. THE EC SHALL COORDINATE ALL SERVICE INSTALLATION AND/OR DEMOLITION WITH THE ELECTRIC UTILITY COMPANY. COORDINATE WITH UTILITY COMPANY ON INSTALLATION REQUIREMENTS AND STANDARDS, OBTAIN THEIR ENGINEERED DRAWINGS AND PROVIDE ALL REQUIRED LABOR AND MATERIALS FOR A COMPLETE INSTALLATION.
6. CONDUIT ROUTING AND PULL BOX LOCATIONS SHOWN ON PLANS IS DIAGRAMMATIC. THE EC SHALL BE RESPONSIBLE TO COORDINATE AND VERIFY ALL TRENCH LOCATIONS, DEPTHS AND ROUTING WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION. INSTALL PULL BOXES MINIMUM 36" FROM STORM DRAIN INLETS AND SIMILAR UTILITIES.
7. PROVIDE SEPARATE PULL BOXES FOR POWER, LIGHTING AND LOW VOLTAGE / SIGNAL CONDUITS. LABEL BOXES "POWER", "LIGHTING" AND "SIGNAL" RESPECTIVELY. CONTRACTOR SHALL SIZE ALL IN GRADE PULL BOXES PER APPLICABLE CODE OR STANDARD, OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER. ALL SIZES NOTED ON PLANS ARE BASED ON CODE MINIMUM AND INDUSTRY STANDARD BOX SIZES, AND ARE RECOMMENDATIONS FOR BIDDING PURPOSES ONLY.
8. THE EC SHALL NOTE THAT NOT ALL PULL BOXES ARE SHOWN ON THE DRAWINGS, I.E. BOXES FOR SITE LIGHTING. IT IS THE EC'S RESPONSIBILITY TO PROVIDE ALL REQUIRED PULL BOXES.
9. MINIMUM SIZE OF SITE CONDUITS IS 1".

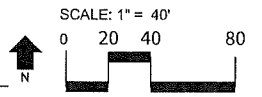
EXISTING 200A, 240/120V,  
1-PHASE PG&E SERVICE AND  
METERMAIN TO BE REMOVED.  
EXISTING SERVICE IS FED  
OVERHEAD FROM POLE MOUNT  
TO THE WEST ON ADJACENT  
PARCEL.



## NON-UTILITY TRENCH DETAILS



- NOTES:
1. PROVIDE 12" CLEAR BETWEEN LINE VOLTAGE POWER CONDUITS AND LOW VOLTAGE TELEPHONE, SIGNAL, CABLE, AND CONTROL CONDUITS.
  2. MAINTAIN 36" HORIZONTAL SEPARATION BETWEEN ELECTRIC FACILITIES AND WET UTILITIES WITH A MINIMUM OF 12" UNDISTURBED EARTH.



## ELECTRICAL SITE PLAN

09/01/23 PERMIT SET

REV DATE ISSUANCE

ISSUANCE LIST:

CLIENT:  
BOLINAS  
COMMUNITY  
LAND TRUST

PROJECT:  
BOLINAS RV  
200 MESA ROAD  
BOLINAS, CA 94924

SOCO PROJECT # 23010  
DRAWN BY: NJP  
CHECKED BY: NJP  
SCALE: AS NOTED

SHEET TITLE:  
ELECTRICAL  
SITE PLAN

# E1.1





STATE OF CALIFORNIA  
**Electrical Power Distribution**  
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E  
Project Name: Bolinas RV Report Page: (Page 2 of 4)  
Project Address: 200 Mesa Road Date Prepared: 8/22/2023

**C. COMPLIANCE RESULTS**  
Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

| 01                                                          | 02  | 03                                                        | 04  | 05                                           | 06  |                                                        |     |                                    |                    |
|-------------------------------------------------------------|-----|-----------------------------------------------------------|-----|----------------------------------------------|-----|--------------------------------------------------------|-----|------------------------------------|--------------------|
| Service Electrical Metering 130.5(a)/160.6(a) (See Table F) | AND | Separation for Monitoring 130.5(b)/160.6(b) (See Table G) | AND | Voltage Drop 130.5(c)/160.6(c) (See Table H) | AND | Controlled Receptacles 130.5(d)/160.6(d) (See Table I) | AND | Electric Ready 160.9 (See Table J) | Compliance Results |
| Yes                                                         | AND | Yes                                                       | AND | Yes                                          | AND | Yes                                                    | AND | Yes                                | COMPLIES           |

**D. EXCEPTIONAL CONDITIONS**  
This table is auto filled with uneditable comments because of selections made or data entered in tables throughout the form.

**E. ADDITIONAL REMARKS**  
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. SERVICE ELECTRICAL METERING**  
This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with 130.5(a) / 160.6(a). For multifamily occupancies, submetered systems that provide power to common use areas must meet the following metering requirements. Submetered systems providing power to dwelling units do not.

| 01                                         | 02                        | 03                                               |                             |                                      |                          | 04                                                 | 05                                                 |                          |
|--------------------------------------------|---------------------------|--------------------------------------------------|-----------------------------|--------------------------------------|--------------------------|----------------------------------------------------|----------------------------------------------------|--------------------------|
|                                            |                           | Instantaneous Demand (kW)                        | Historical Peak Demand (kW) | Tracking kWh for user-defined period | kWh per rate period      |                                                    | Location of Requirements in Construction Documents | Pass                     |
| Electrical Service Designation/Description | Rating <sup>1</sup> (kVA) | Required Metering Capabilities per Table 130.5-A |                             |                                      |                          | Location of Requirements in Construction Documents | Pass                                               | Fail                     |
| Main                                       | 50                        | <input checked="" type="checkbox"/>              | <input type="checkbox"/>    | <input checked="" type="checkbox"/>  | <input type="checkbox"/> |                                                    | <input type="checkbox"/>                           | <input type="checkbox"/> |

<sup>1</sup> FOOTNOTES: If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.

**H. VOLTAGE DROP**  
This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)(2)(iii)/180.2(b)(4)(vi).

Generated Date/Time: Documentation Software: EnergyPro  
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro 50284-0823-0008  
Schema Version: rev 20220101 Report Generated: 2023-08-22 14:38:55

STATE OF CALIFORNIA  
**Electrical Power Distribution**  
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E  
Project Name: Bolinas RV Report Page: (Page 4 of 4)  
Project Address: 200 Mesa Road Date Prepared: 8/22/2023

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Nicholas Peters  
Signature: [Signature] Date: 8-22-2023  
Company: SoCo Engineering  
Address: 445 Center Street, Suite 219, Healdsburg, CA 95448  
Phone: 707-828-0571

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Nicholas Peters  
Signature: [Signature] Date: 2023-08-22  
Company: SoCo Engineering, Inc.  
Address: 445 Center Street, Suite 219, Healdsburg, CA 95448  
Phone: 707-828-0571

Generated Date/Time: Documentation Software: EnergyPro  
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro 50284-0823-0008  
Schema Version: rev 20220101 Report Generated: 2023-08-22 14:38:55

STATE OF CALIFORNIA  
**Electrical Power Distribution**  
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E  
This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)(2)(P) for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2(b)(4)(vi).  
Project Name: Bolinas RV Report Page: (Page 1 of 4)  
Project Address: 200 Mesa Road Date Prepared: 8/22/2023

**A. GENERAL INFORMATION**

|                                    |         |                 |   |
|------------------------------------|---------|-----------------|---|
| 01 Project Location (city)         | Bolinas | 02 Climate Zone | 1 |
| 03 Occupancy Types Within Project: |         |                 |   |

**B. PROJECT SCOPE**  
This table includes electrical systems that are within the scope of the permit application.

| 01                                         | 02                                         | 03                        | 04                                                                           | 05                                                                       | 06                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 07                                                                                 |
|--------------------------------------------|--------------------------------------------|---------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Electrical Service Designation/Description | Scope of Work <sup>1</sup>                 | Rating <sup>2</sup> (kVA) | Utility Provided Metering System Exception to 130.5(a)/160.6(a) <sup>3</sup> | System subject to CA Elec Code Article 517 Exception to 130.5(a) and (b) | Demand Response Controls                                                                                                                                                                                                                                                                                                                                                                                                                               | Provides power to dwelling units/common living areas only in multifamily occupancy |
| Main                                       | New electrical service equipment and meter | 50                        | <input checked="" type="checkbox"/>                                          | <input type="checkbox"/>                                                 | Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/160.3, 130.1/160.5, and 130.3/160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required. | <input type="checkbox"/>                                                           |

<sup>1</sup> FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.  
<sup>2</sup> If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.  
<sup>3</sup> Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

Generated Date/Time: Documentation Software: EnergyPro  
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro 50284-0823-0008  
Schema Version: rev 20220101 Report Generated: 2023-08-22 14:38:55

STATE OF CALIFORNIA  
**Electrical Power Distribution**  
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E  
Project Name: Bolinas RV Report Page: (Page 3 of 4)  
Project Address: 200 Mesa Road Date Prepared: 8/22/2023

**H. VOLTAGE DROP**

| 01                                         | 02                                                                                                                                                    | 03                                                 | 04                                                                   | 05                                                          |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------|
| Electrical Service Designation/Description | Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method                                                                 | Location of Voltage Drop Calculations <sup>1</sup> | Sheet Number for Voltage Drop Calculations in Construction Documents | Field Inspector                                             |
| Main                                       | <input checked="" type="checkbox"/> Voltage drop less than 5% <input type="checkbox"/> Permitted by CA Elec Code (Exception to 130.5(c)) <sup>2</sup> | Attached                                           | See Dwg E5.1 Feeder Schedule                                         | Pass <input type="checkbox"/> Fail <input type="checkbox"/> |

<sup>1</sup> NOTES: If "Permitted by CA Elec Code" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.  
<sup>2</sup> FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

**I. ELECTRIC READY BUILDINGS**  
This section does not apply to this project.

**K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

Form/Title

NRCC-ELC-E - Must be submitted for all buildings

Generated Date/Time: Documentation Software: EnergyPro  
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro 50284-0823-0008  
Schema Version: rev 20220101 Report Generated: 2023-08-22 14:38:55

09/01/23 PERMIT SET  
REV DATE ISSUANCE  
ISSUANCE LIST:

CLIENT:  
BOLINAS  
COMMUNITY  
LAND TRUST

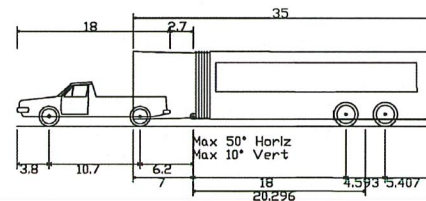
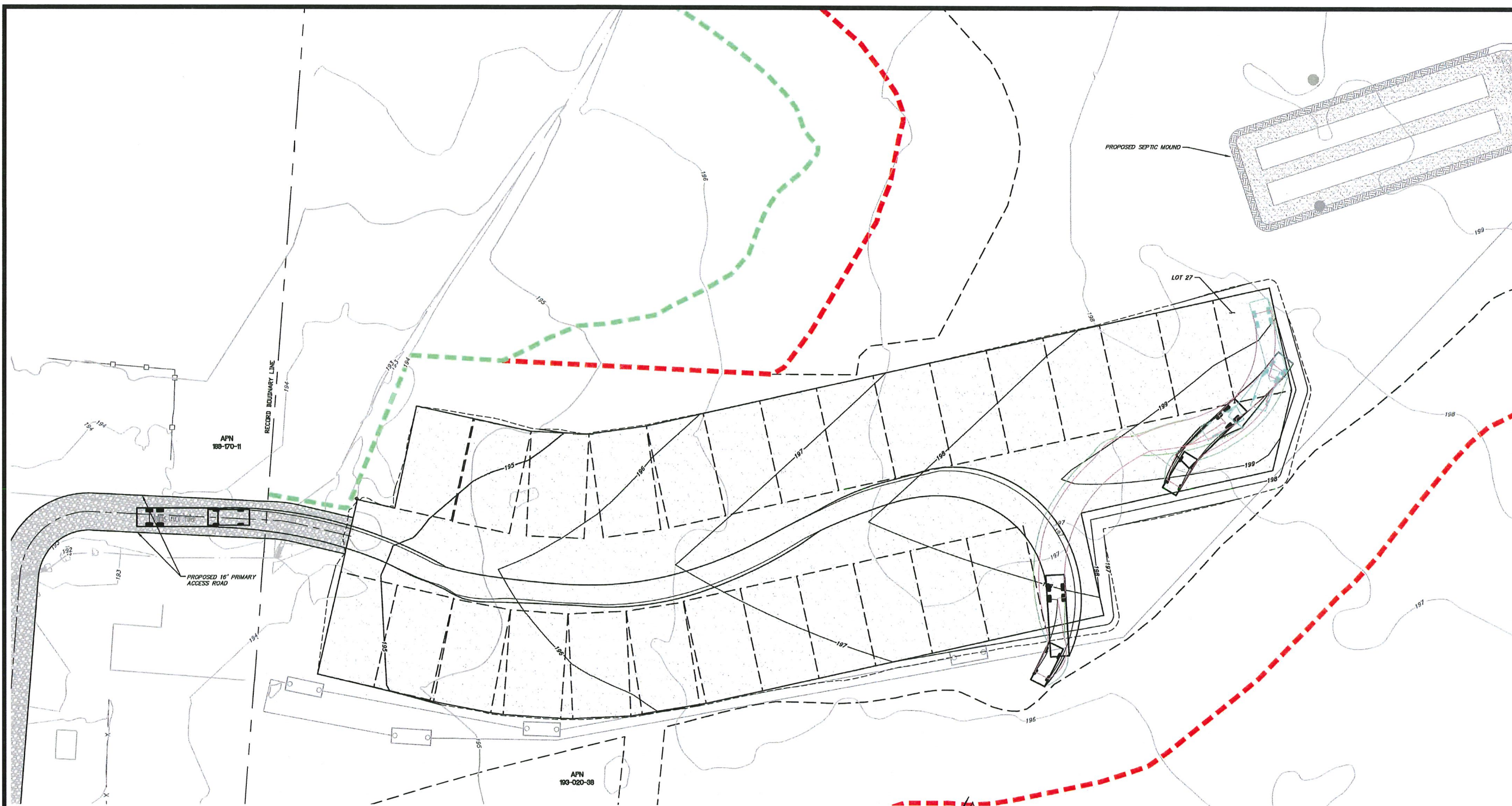
PROJECT:  
BOLINAS RV  
200 MESA ROAD  
BOLINAS, CA 94924

SOCO PROJECT # 23010  
DRAWN BY: NJP  
CHECKED BY: NJP  
SCALE: AS NOTED

SHEET TITLE:  
TITLE 24  
COMPLIANCE  
FORMS

**ET24**

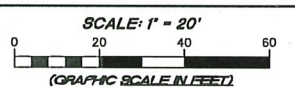
P:\MCE\_JOBS\2023\124-23 BOLINAS RV\DWGS\124-23\_IP.DWG 8/1/2023 8:54 AM SA



|                              |          |
|------------------------------|----------|
| Bolinas Truck Trailer        |          |
| Overall Length               | 48.700ft |
| Overall Width                | 8.000ft  |
| Overall Body Height          | 8.761ft  |
| Min Body Ground Clearance    | 0.844ft  |
| Max Track Width              | 8.000ft  |
| Lock-to-lock time            | 6.00s    |
| Max Steering Angle (Virtual) | 40.00°   |

**TRUCK AND TRAILER PROFILE**  
NO SCALE

**TURNING TEMPLATE**



|          |             |    |      |
|----------|-------------|----|------|
| REVISION | DESCRIPTION | BY | DATE |
|          |             |    |      |
|          |             |    |      |
|          |             |    |      |

**MUNSELLE CIVIL ENGINEERING**  
 ♦ CIVIL ENGINEERING ♦ SURVEYING ♦  
 ♦ PLANNING ♦ CONST. MANAGEMENT ♦  
 515 CENTER STREET  
 HEALDSBURG, CA 95448  
 (707) 995-0968

**DANIEL JOHN HUGHES**  
 REGISTERED PROFESSIONAL ENGINEER - CIVIL  
 No. 60225  
 STATE OF CALIFORNIA

**BOLINAS RV TURNING TEMPLATE**  
 APN 90-020-38  
 200 MESA ROAD  
 BOLINAS, CA 94924

AUGUST 1, 2023  
 JOB NO. 124-23  
 SHEET NO. **T.1**  
 OF 1 SHEET

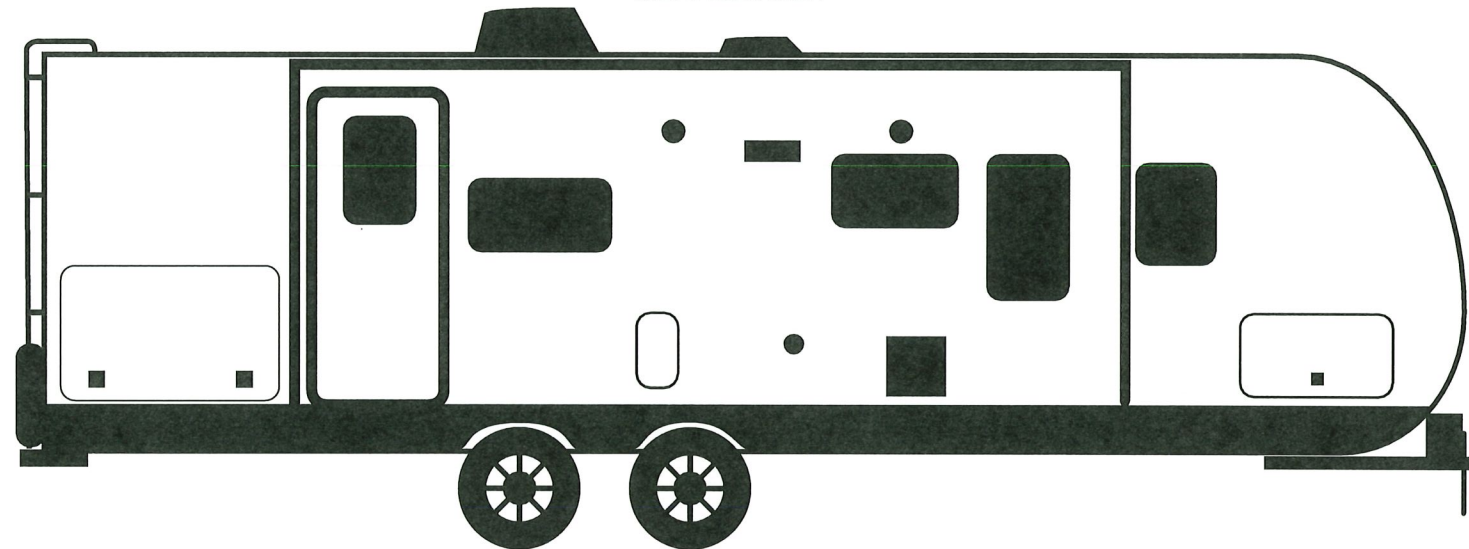
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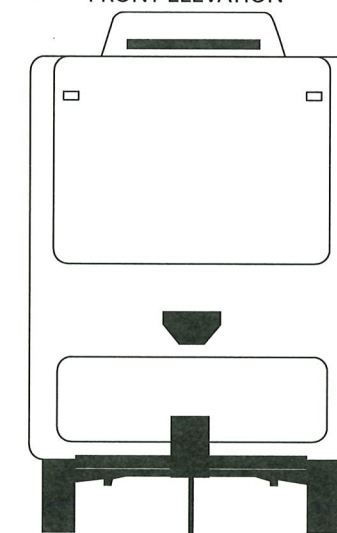
RIGHT ELEVATION



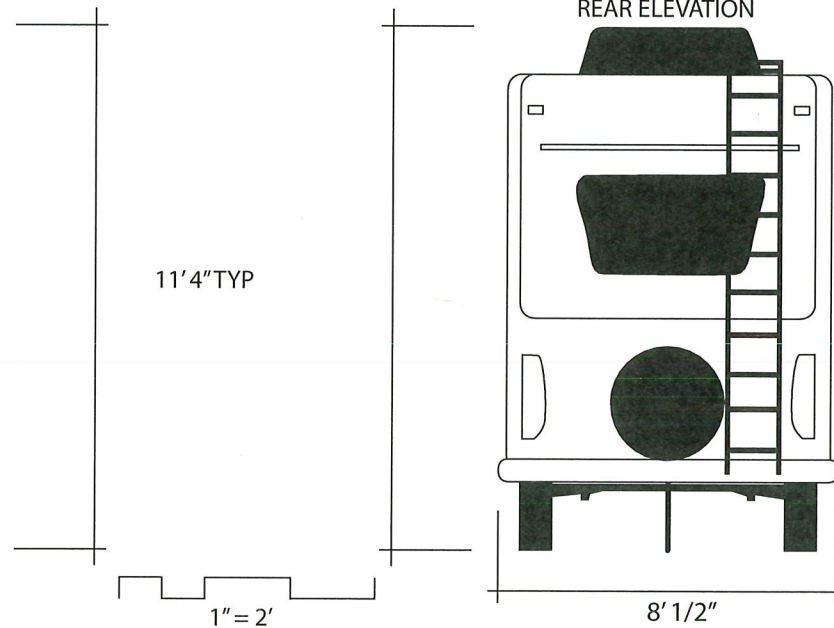
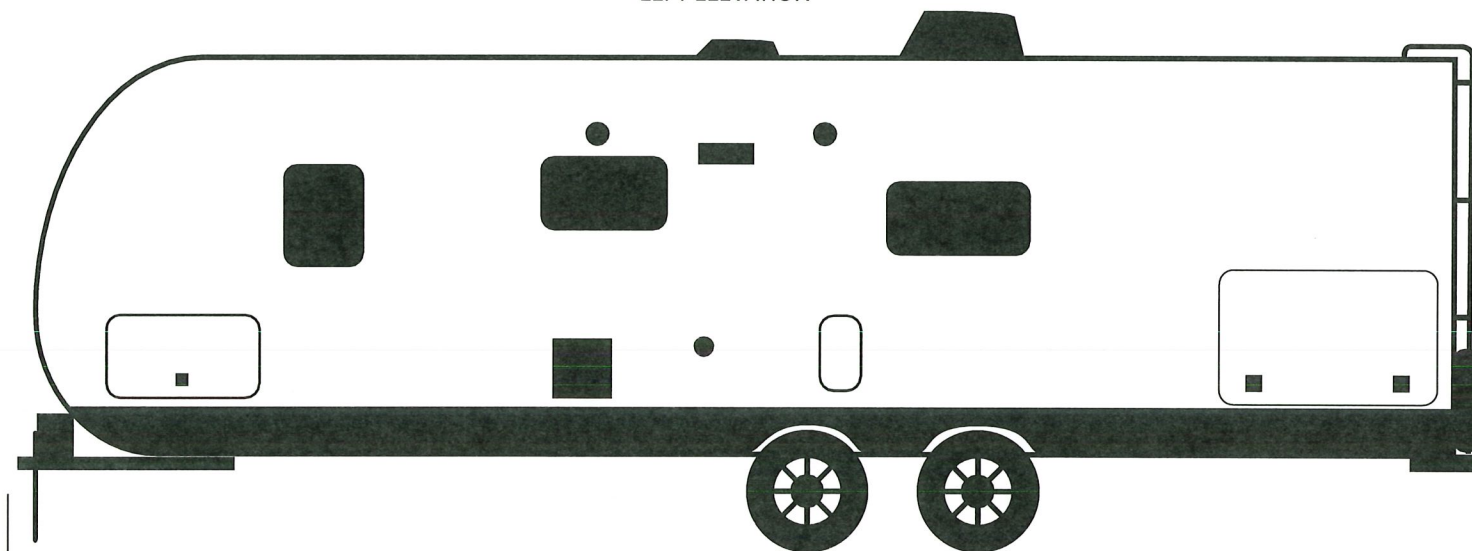
FRONT ELEVATION



LEFT ELEVATION



REAR ELEVATION



34' 9-1/2" MAX



Revisions

- △
- △
- △
- △

Issue

- △
- △
- △
- △

APN: 193-020-38  
 BCLT - MESA ROAD  
 BOLINAS, CA 94924

Title ELEVATIONS

Scale

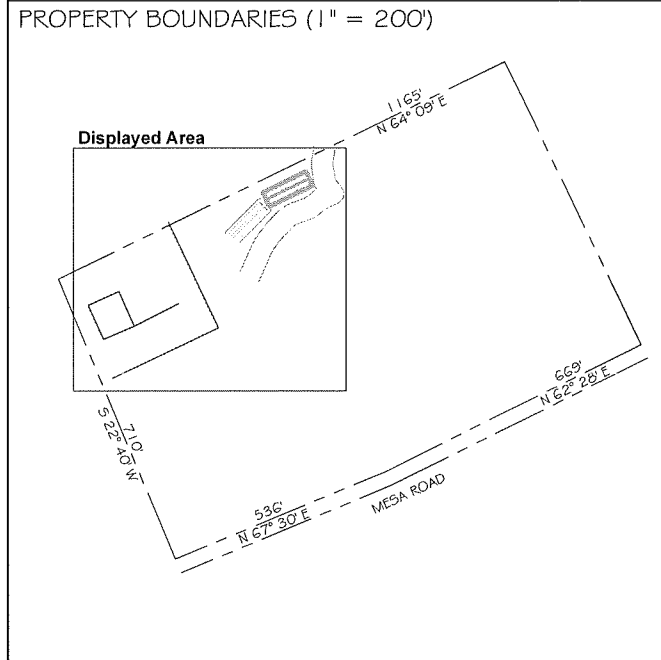
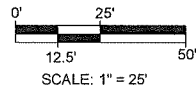
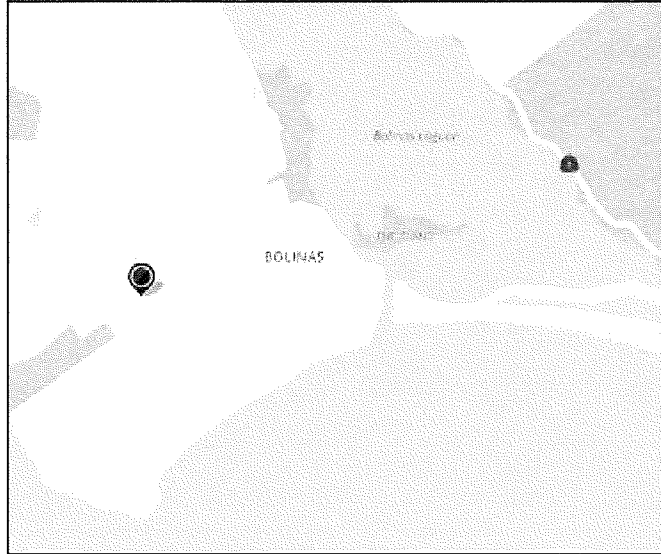
Date June 5, 2023

Sheet

E.0

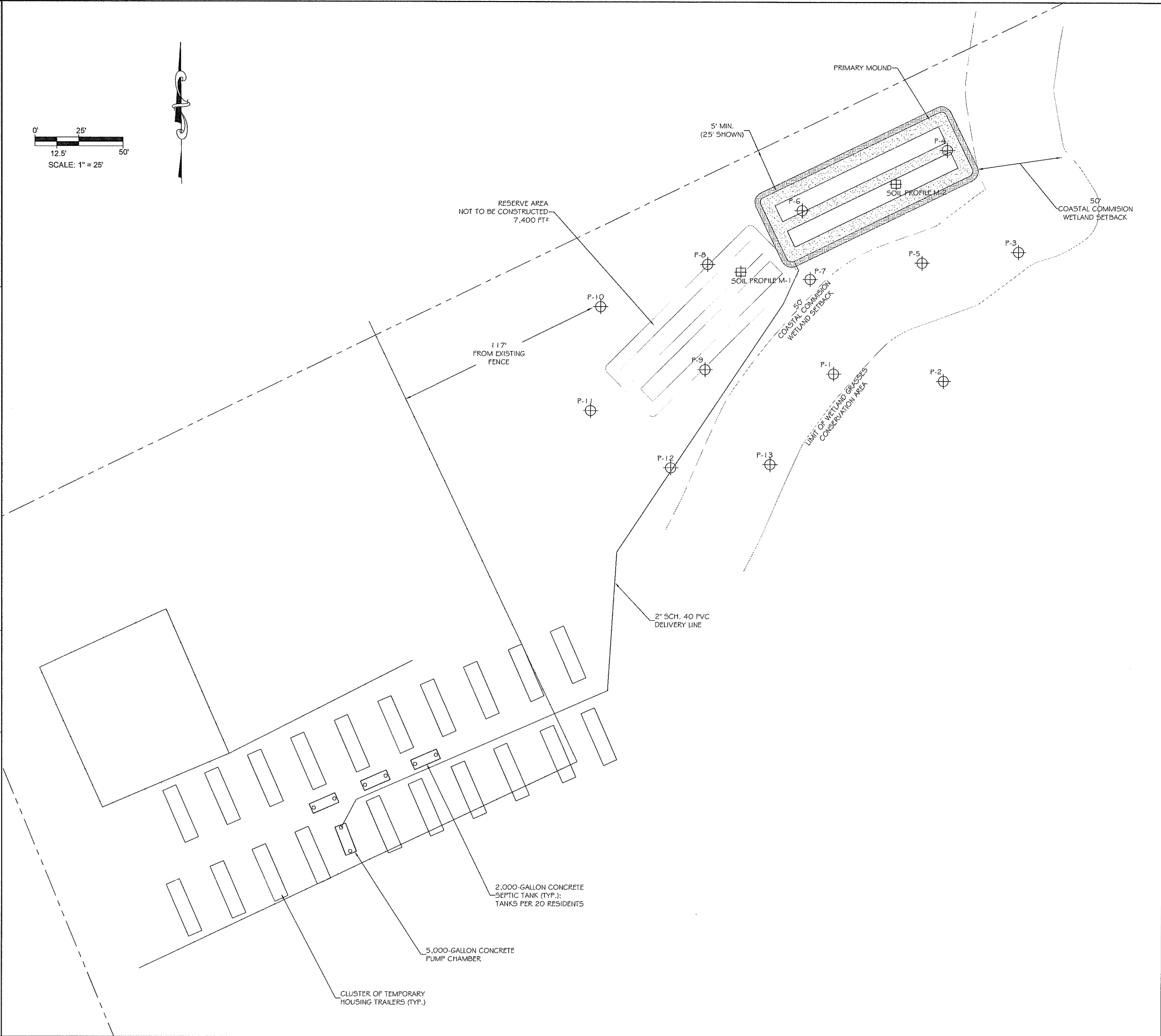
of



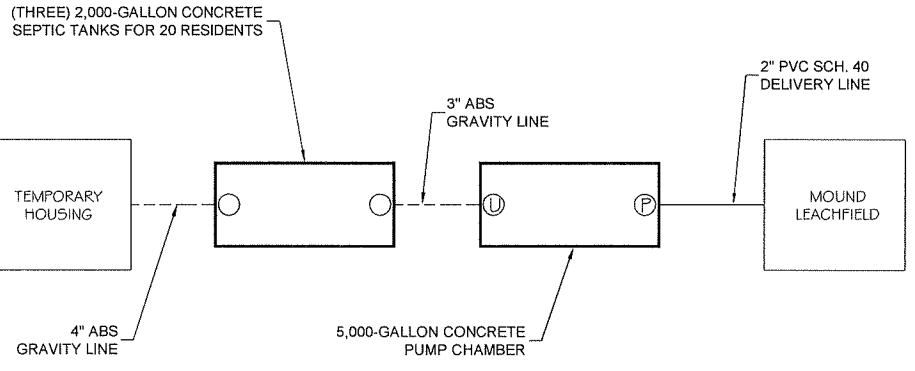


- LEGEND
- Soil Profile Trench
  - Percolation Test

- NOTES
- \* Survey provided by Bolinas Land Trust. EED, Inc. assumes no responsibility.
  - \* 2,065 GPD System
  - \* Contours less than 2%



|                                                                                      |                                              |  |                                                                                   |                                             |                |                            |                             |              |
|--------------------------------------------------------------------------------------|----------------------------------------------|--|-----------------------------------------------------------------------------------|---------------------------------------------|----------------|----------------------------|-----------------------------|--------------|
| 100 Shoreline Highway<br>Bldg. B, Suite 100<br>Mill Valley, CA 94941<br>415.952.0284 | <b>eckman environmental<br/>designs, inc</b> |  | TACHERRA RANCH AFFORDABLE HOUSING PROJECT<br>130 MESA ROAD<br>BOLINAS, CALIFORNIA | ON-SITE WASTEWATER SYSTEM PLAN<br>SITE PLAN | APN 183-020-38 | DATE / REV. 03-27-2023 / B | SCALE/SIZE 1" = 25' / ARCHD | SHEET 1 OF 4 |
|                                                                                      |                                              |  |                                                                                   |                                             |                |                            |                             |              |



**LEGEND**

Soil Profile Trench (M-1 / M-2)      GW Monitoring Well  
 Percolation Test      Inspection Well

**NOTES**

- \* Survey provided by Bolinas Land Trust. EED, Inc. assumes no responsibility.
- \* 2,065 GPD System
- \* Contours less than 2%

|             |                  |
|-------------|------------------|
| APN         | 193-020-38       |
| DATE / REV. | 03-27-2023 / B   |
| SCALE/SIZE  | 1" = 15' / ARCHD |
| SHEET       | 2 OF 4           |

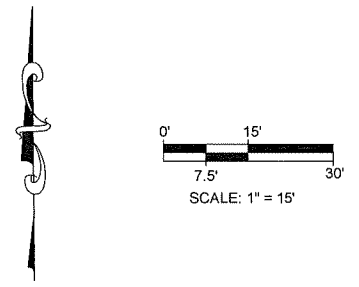
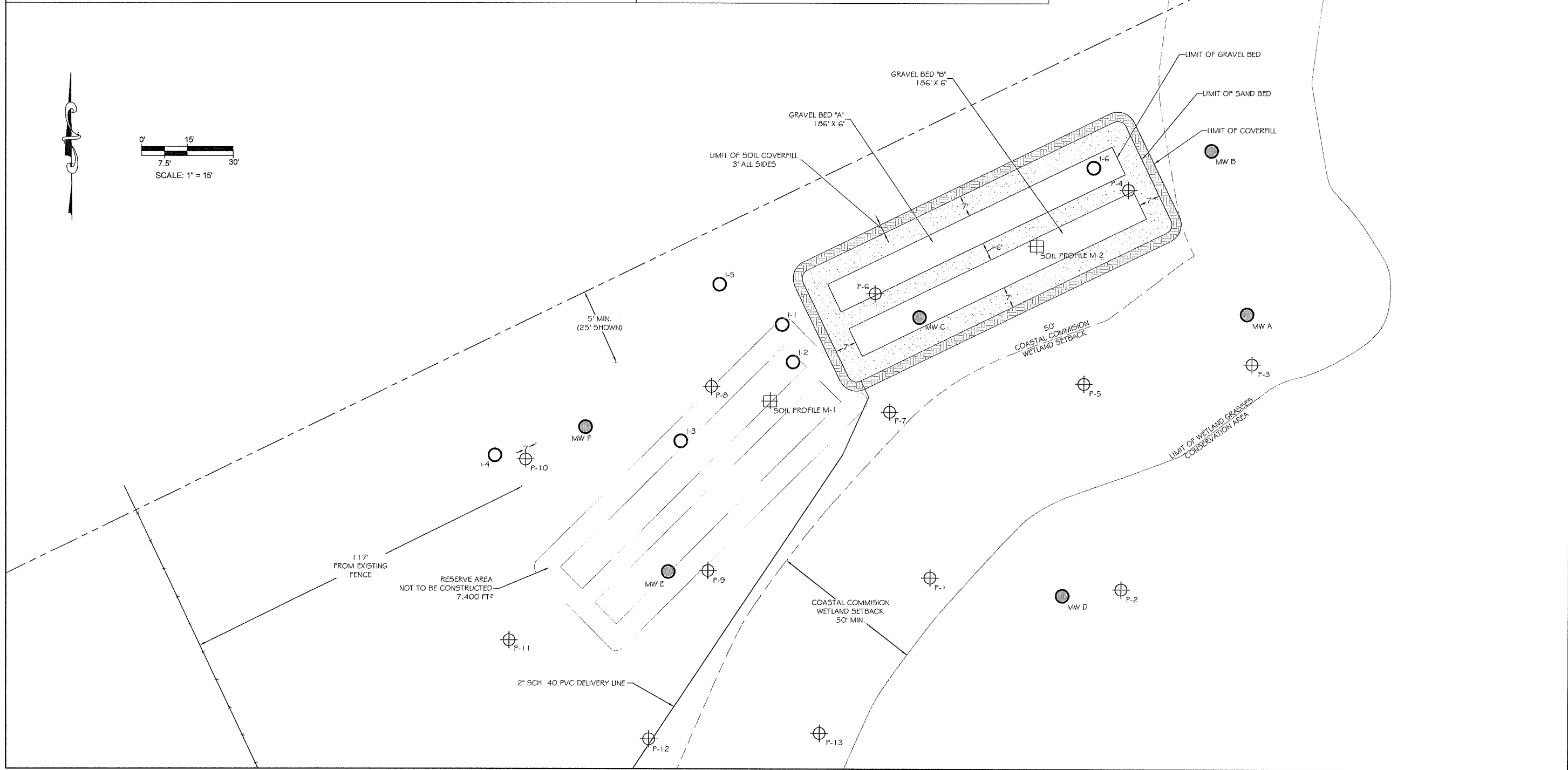
ON-SITE WASTEWATER SYSTEM PLAN  
SITE PLAN

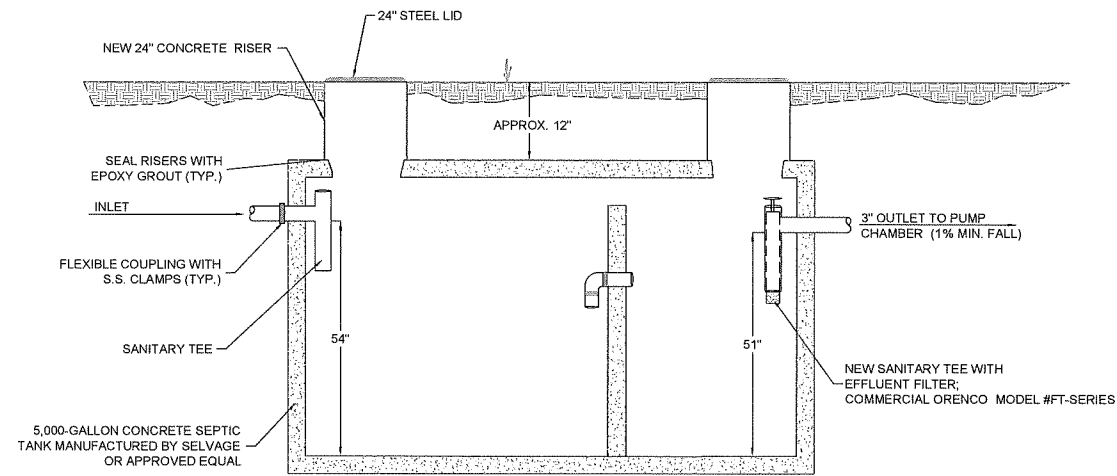
TACHERRA RANCH AFFORDABLE HOUSING PROJECT  
130 MESA ROAD  
BOLINAS, CALIFORNIA



eckman environmental  
designs, inc

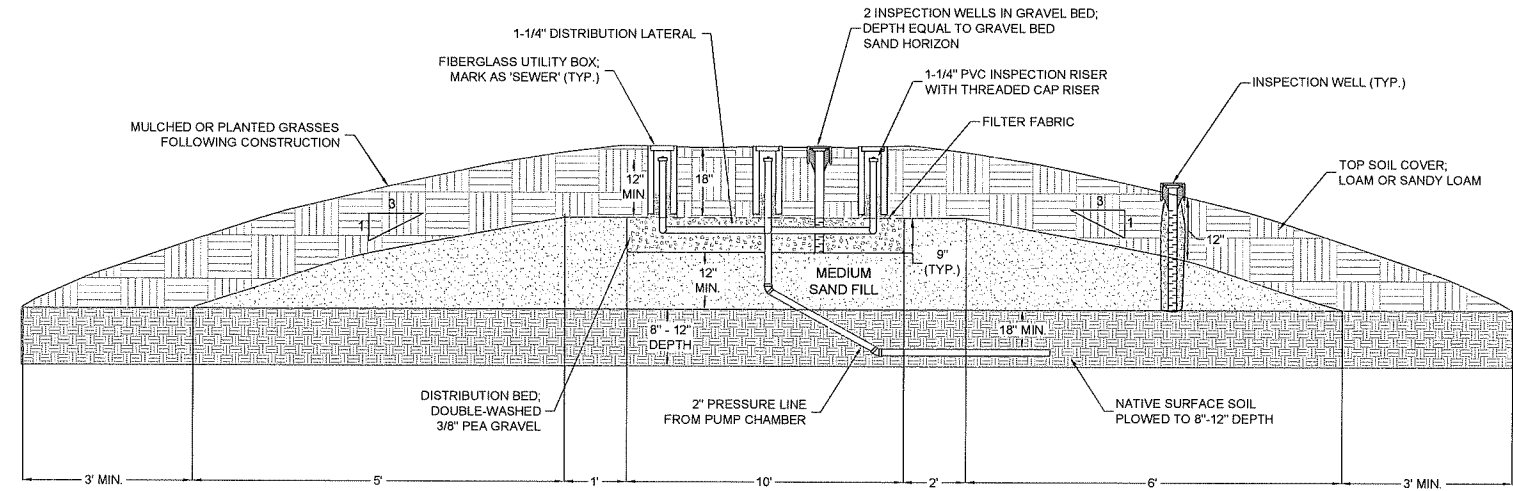
100 Shoreline Highway  
Bldg. B, Suite 100  
Mill Valley, CA 94941  
415.935.0284





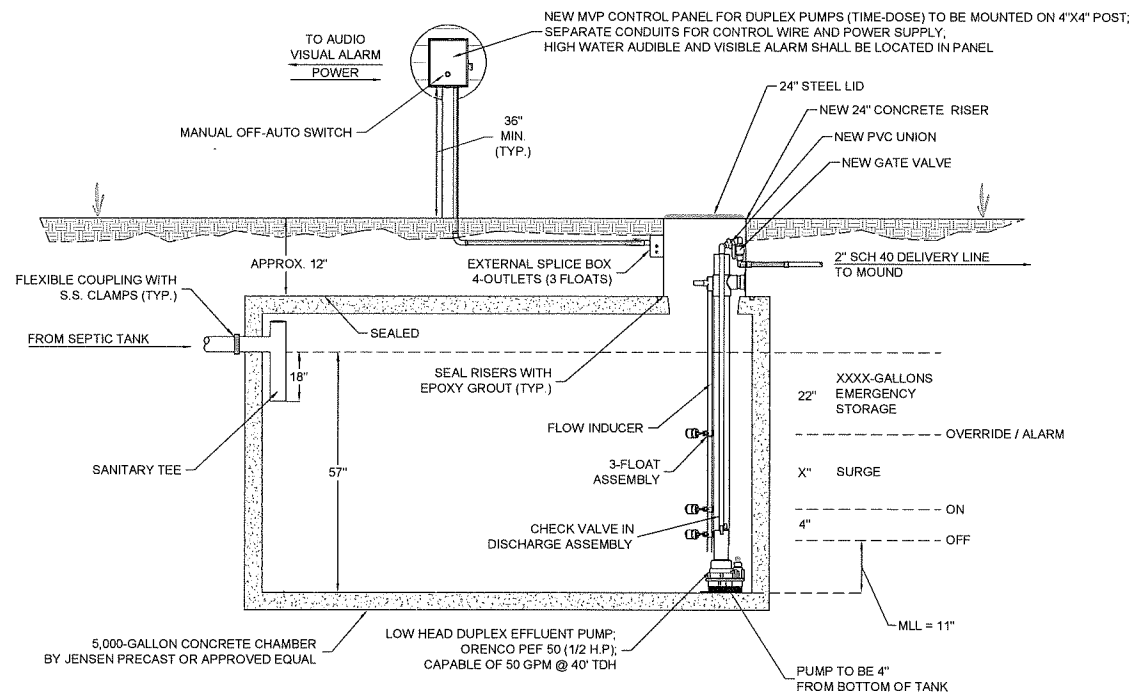
5,000-GALLON TRAFFIC-RATED  
CONCRETE SEPTIC TANK

1



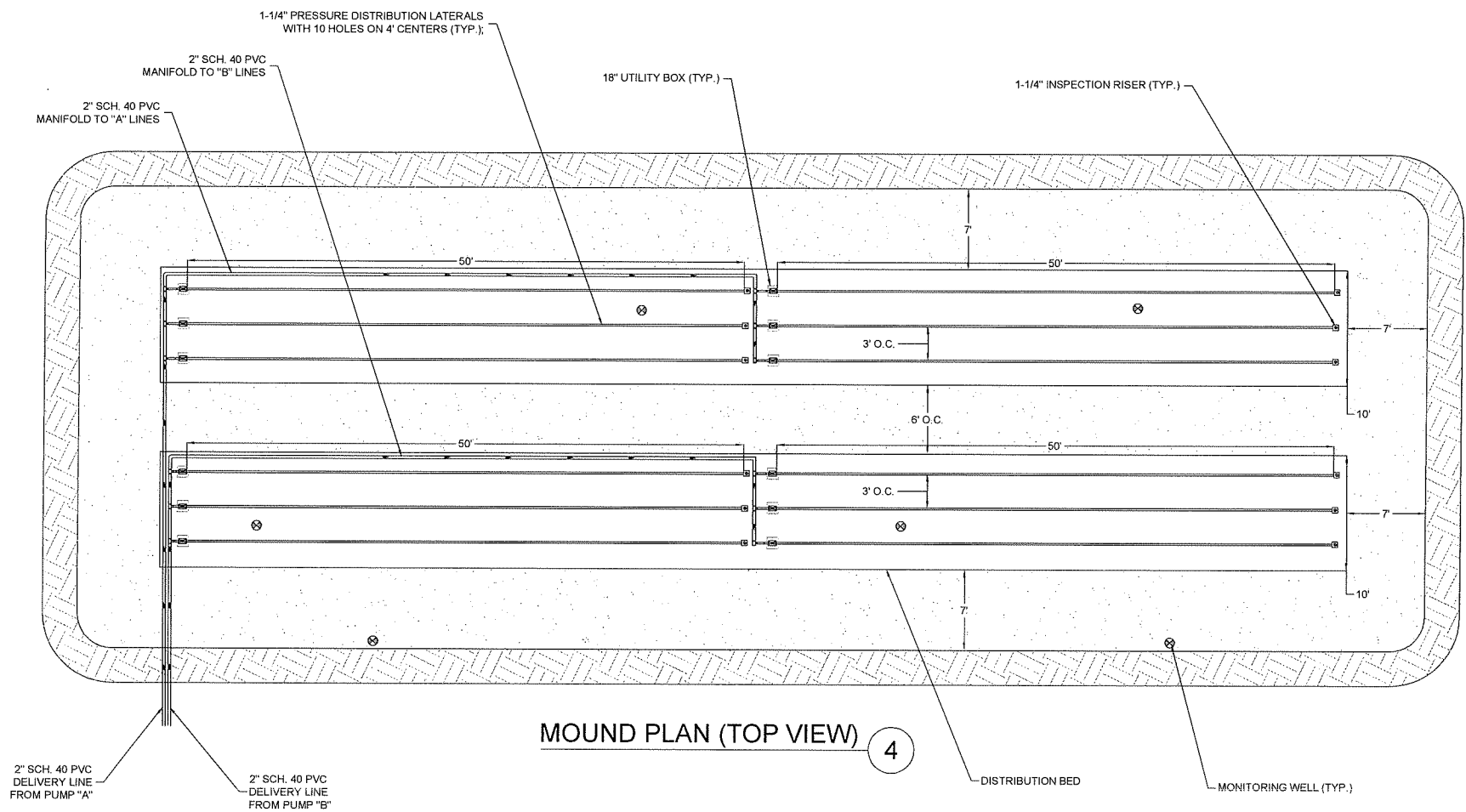
MOUND PLAN (CROSS VIEW)

3



5,000-GALLON TRAFFIC-RATED  
CONCRETE PUMP CHAMBER

2



MOUND PLAN (TOP VIEW)

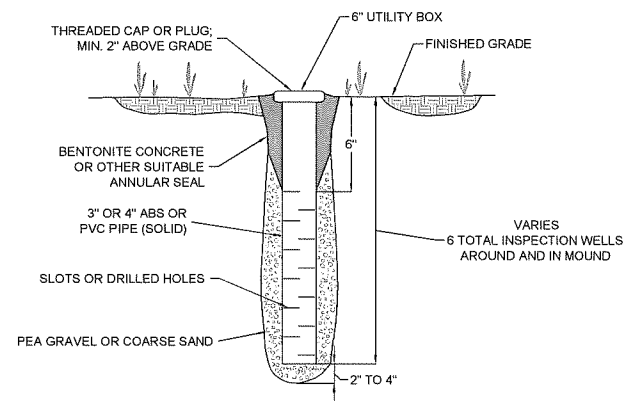
4

|             |                |
|-------------|----------------|
| APN         | 193-020-38     |
| DATE / REV. | 03-27-2023 / B |
| SCALE/SIZE  | NONE / ARCHD   |
| SHEET       | 3 OF 4         |

ON-SITE WASTEWATER SYSTEM PLAN  
CONSTRUCTION DETAILS

TACHERRA RANCH AFFORDABLE HOUSING PROJECT  
130 MESA ROAD  
BOLINAS, CALIFORNIA





MONITORING WELL 5

**CONSTRUCTION SPECIFICATIONS**

**GENERAL**

- Plan Changes.** Changes in plans or specifications shall be made only after consultation with and approval of the Designer.
- Property Lines.** Property lines shown on drawing are approximate. The owner has had the property boundaries marked by a licensed surveyor.
- Mound Construction.** Mound shall be created with a crawler tractor; no rubber-tired vehicles shall be permitted in mound area.
- Construction Inspection.** Construction inspection by the Designer shall be required at checkpoints as outlined in the attached Construction Inspection Schedule. It shall be the responsibility of the contractor to call for the required inspections, and to provide at least 48-hours advance notification of the Designer and Marin County Environmental Health Department.

**MATERIALS**

- General.** All construction materials shall be approved by the designer prior to their placement. Marin County electrical permit is required.
- Sand Fill.** Sand fill for the mound shall be a medium to coarse textured sand conforming to the following specifications:

| Sieve Size | Percent Passing |
|------------|-----------------|
| 3/8        | 100             |
| #4         | 90 - 100        |
| #10        | 62 - 100        |
| #16        | 45 - 82         |
| #30        | 25 - 55         |
| #50        | 5 - 20          |
| #60        | 0 - 10          |
| #100       | 0 - 4           |

- Pea Gravel.** Shall be cleaned and nominally 3/8"-size.
- Distribution Piping.** All piping for the delivery and pressure distribution network shall be Schedule 40 PVC and have a minimum pressure rating of 150 psi unless otherwise specified. All joints shall be solvent-cement socket type conforming to ASTM D-2672.  
  
Perforations for the pressure distribution network shall be drilled in a straight line along the invert of the pipe according to the hole diameter and spacing as shown on the plans or as modified by the designer. Clean all drilling burrs from the inside and outside of the pipe prior to installation.
- Filter Fabric.** Filter fabric shall be Mirafix 140N or approved equal. Filter fabric shall be handled and installed in accordance with manufacturer's recommendations. Borders of fabric shall be overlapped 12 to 18 inches. Any torn or damaged sections of fabric shall be covered with additional pieces of filter fabric sufficient to meet the above overlapping requirement.
- Effluent Filter.** Contractor shall use Orenco commercialized filter.
- Septic Tank.** (Three) 5,000-gallon concrete septic tank as manufactured by Jensen Precast Concrete Products, 478 Roseville Road, Roseville, CA 95678, (916) 783-0800, or equal, shall be used for septic tank shown on the plans. Septic tanks shall be water tight construction and certified as such. Field testing of septic tank integrity shall be required.
- Pump Chamber.** A 2,000-gallon concrete pump chamber as manufactured by Jensen Precast Concrete Products, 478 Roseville Road, Roseville, CA 95678, (916) 783-0800, or equal, shall be used for pump chamber shown on the plans. The pump chamber shall be of watertight construction and certified as such. Field-testing of the chamber shall be required.
- Pumps.** The pumps are to be Orenco Pump Company, #PEF 50, 1/2 HP or equal for the mound capable of 42 gpm and 26' TDH.
- Control Panel.** Contractor shall use Orenco control panel MVP, or equal, to control the mound pump. The 3-float configuration on the plans supports time-dose (Mound). Distributed by Pace Supply, Santa Rosa, CA, 707-545-7101.
- Access Risers.** Watertight and gas tight access risers shall be installed over the inlet and outlet openings of both the septic tank and the pump chamber. Access risers shall be installed from the top of the tanks to about 1/2-inch above ground surface at all tank openings. The riser must be watertight at all points and have a watertight seal at the top of the tank.

**CONSTRUCTION**

- Installation.** All installation work shall be in accordance with applicable Marin County Regulations.
- Mound Area Compaction.** Vehicle traffic shall not be permitted within an area of ten feet downslope of the mound and five feet of the sideslope.
- Location of Mound.** Location shown for the mound is approximate, subject to adjustment in the field by the Contractor according to building constraints and noted setback requirements.
- Septic Tank and Pump Chamber Location.** Location for the septic tank and pump chamber is approximate, subject to adjustment in the field by the contractor according to building constraints and noted setback requirements. They shall be located and installed to be free from vehicle traffic and protected against entry of surface runoff. Install clean-outs every 100 feet and on turns to septic tank.
- Septic Tank/Pump Chamber Leak Test.** The new septic tank and new pump chamber shall be required to be certified as watertight. Field testing of tanks shall be required and conducted as follows:  
  
Designer to visually inspect tank prior to conducting leak test. Fill tank and pump chamber so water level is 2 inches ± above tank/access riser joints. Note depth of water and re-measure not less than one hour later. A water level drop of 0.25 inches or greater shall be considered to be an indicator of a leaking tank; a tank shall be repaired or replaced to the satisfaction of the engineer. **Note:** The septic tank and pump chamber excavation are not to be backfilled until the leak test is completed.

**22. Electrical.**

- High water audio and visual alarm shall be located within the house.
- All electrical work shall conform to procedures and codes of Marin County Building Department.

**Effluent Pump:** The pump shall be of the size and type to accommodate the intended use and shall include the following:

- A "Hand-off-auto" (HOA) switch.
- An audio and visible alarm and necessary sump water sensing device to indicate a "high water" condition.
- Float switches shall be anchored to a suitable float (tree) for controlling the starting and stopping of pump operation.
- The pump intake shall be set a minimum of 4 inches above the sump bottom.

**Sump:**

- Access shall be provided by a minimum 24-inch diameter opening.
- All pipes and/or electrical conduits through the sump shall be either precast into the sump or sealed with gas-tight compression connectors.

**Electrical Features:** The following electrical features shall be provided:

- An outdoor-type control box containing fused disconnect and motor protection switch.
- The control box may be mounted on the building served if located within 30 feet and within direct view of the sump, otherwise the control box shall be mounted on a pipe stand or wooden post.
- Electrical conduit shall be PVC. Separate conduits shall be provided for control wire and power supply. Separate circuits with individual breakers at the main panel shall be provided for the control panel/ alarm and pump.

**23. Pressure Pipe Network.**

- All pressure pipe shall be Schedule 40 PVC or approved equal.
- All joints shall be glued with solvent cement.
- Distribution pipe shall be laid level with a maximum permissible slope of three (3) inches in 100 feet.
- Hydraulic testing shall be conducted in the presence of the Designer to determine any leaks in the system and to check the discharge head and pump operation.
- A concrete thrust block shall be installed at all pipe bends of 45° or greater in the 2-inch pressure line from the pump to the sand filter and mound.

**24. Erosion Protection.** Re-seed mound area for erosion protection following final cover placement. Divert existing garage roof drainage away from mound area.

**25. Clearing and Grubbing Limits.** All disposal sites will be cleared and grubbed. These areas will be cleared and grubbed only after the Designer has observed and approved the Contractors staking of the clearing limits, to ensure that no more clearing and grubbing is done than necessary.

**Mound Construction**

Mound construction shall be in accordance with the following guidelines, or as may be modified in consultation with the Design Engineer.

**a) Pump Chambers and Pumps**

All electrical, mechanical, and plumbing work, and the methods of construction shall meet Uniform Plumbing Code and National Electrical Code, and shall conform to all local, state, federal and other laws pertaining to this work.

**b) Disposal Site Preparation**

Rope off the site of the mound including the area extending five feet beyond the mound on all sides to prevent damage to the area during other construction activity on the lot. Vehicular traffic over the area shall be prohibited to avoid soil compaction.

Stake out the mound perimeter and beds in the proper orientation. Reference stakes set some distance from the mound perimeter are also required in case the corner stakes are disturbed.

Cut and remove vegetation.

Install the delivery pipe from the sump to the mound. Lay the pipe at a depth of 24 inches and slope it uniformly back to the pump chamber. Backfill and compact the soil around the pipe.

Plow the area within the mound perimeter. Use a two bottom or larger moldboard plow or chisel plow, plowing 8-12 inches deep, parallel to the slope contour. Plowing should be done when the soil is dry. The Designer shall be consulted to determine if proper soil moisture conditions exist.

**c) Fill Placement**

Place the fill materials on the edges of the plowed area, keeping trucks off the plowed area.

Move the medium sand fill material into place using a track type tractor with a blade. Maintain a minimum of 6 inches of material beneath the tracks of the tractor to minimize compaction of the natural soil. The fill material should be worked in this manner until the height of the fill reaches the elevation of the top of the absorption bed.

With the blade of the tractor or by hand, form the absorption bed. Hand level the bottom of the bed, checking for the proper elevation. Shape the sides to the desired slope.

**d) Distribution Network Placement**

Carefully place the pea gravel in the bed, taking care not to create ruts in the bottom of the bed. Level the pea gravel to a minimum depth of 6 inches.

Assemble the distribution network on the pea gravel, laying the lateral level. Perform hydraulic test of distribution system in the presence of the Design Engineer.

Place additional pea gravel to a depth of at least 2 inches over the crown of the pipe.

Place filter fabric over the pea gravel to form silt barrier, filter fabric shall be Mirafix 140N for approved equal.

**e) Mound Covering**

Place good quality topsoil over the entire mound surface. Topsoil depth should be roughly 18 inches over the center and 12 inches minimum over the side slopes. The soil cover of the mound should be compacted with a small track machine or by hand.

Plant grass over the entire mound using grasses adapted to the area that shall aid in protecting the mound from erosion. Shrubs can be planted around the base and up the side slopes. Shrubs should be somewhat moisture tolerant since the downslope perimeter may become moist during early spring and late fall. Plants placed on top of the mound should be drought tolerant.

Inspection of the system shall be performed by the Designer at various stages of construction to verify adherence to design specifications. Inspections are recommended as indicated in the attached schedule.

**RECOMMENDED CONSTRUCTION INSPECTION SCHEDULE**

In accordance with requirements of Marin County Environmental Health Department, the following construction activities will be inspected by the Designer.

**INSPECTION #1**

- On-site preconstruction conference to discuss project with contractor;
- Staking of septic tanks and pump chamber;
- Staking and layout of mound disposal area, and
- Review/approval of material.

**INSPECTION #2/3**

- Placement of 4-inch tight line;
- Septic tank and pump chamber installation;
- Leak testing of septic tank and pump chamber;
- Clearing of mound site;
- Plowing of surface soils; and,
- Placement of sand fill.

**INSPECTION #4**

- Placement of mound pea gravel in distribution bed;
- Assembly and layout of mound distribution pipe network;
- Placement of 2-inch pressure line;

**INSPECTION #5/6**

- Testing of pumps and distribution systems.
- Installation of monitoring wells; and,
- Final fastening of pipe connections.

**INSPECTION #7**

- Placement of filter fabric;
- Placement of topsoil cover;
- Final shaping of mound;
- Seeding of mound; and,
- Pump alarm; Confirm low flow fixtures

|             |                |
|-------------|----------------|
| APN         | 193-020-38     |
| DATE / REV. | 03-27-2023 / B |
| SCALE/SIZE  | NONE / ARCHD   |
| SHEET       | 4 OF 4         |

**ON-SITE WASTEWATER SYSTEM PLAN  
CONSTRUCTION DETAILS**

TACHERRA RANCH AFFORDABLE HOUSING PROJECT  
130 MESA ROAD  
BOLINAS, CALIFORNIA



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designs, inc**