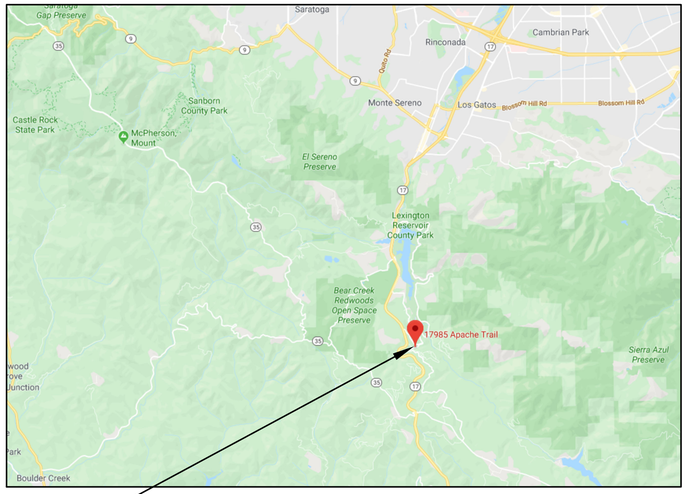
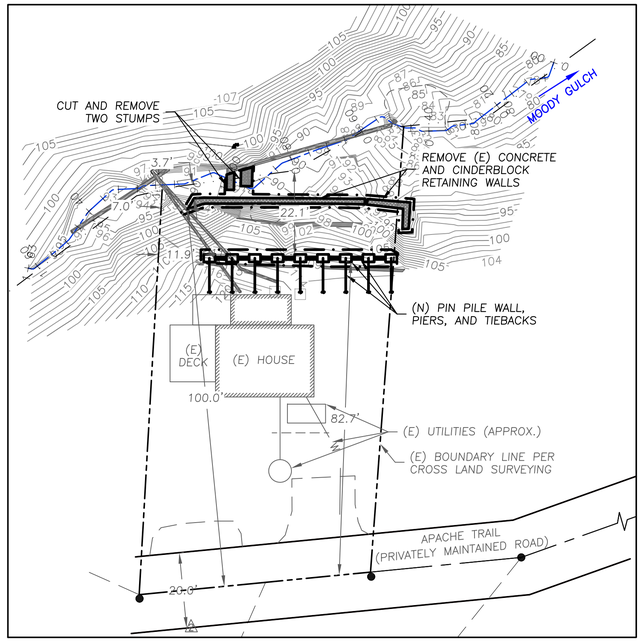
MOODY CREEK AT 17985 APACHE TRAIL
WALL REMOVAL AND PIN PILE WALL PROJECT
100% DESIGN PLANS

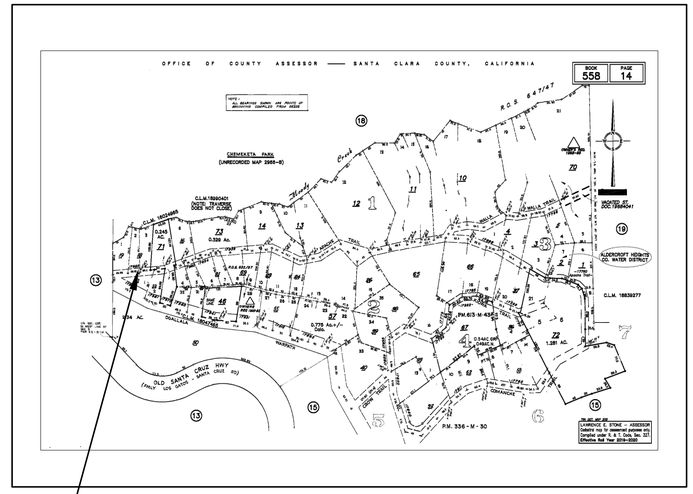


PROJECT LOCATION

REGIONAL MAP
N.T.S. (GOOGLE)



VICINITY MAP
SCALE: 1" = 20'



PROJECT LOCATION

APN MAP
N.T.S. (COUNTY OF SANTA CLARA)

GENERAL NOTES

1. TOPOGRAPHIC MAPPING WAS PERFORMED BY:
   CLEARWATER HYDROLOGY
   2974 ADELINE ST.
   BERKELEY, CA 94703
   DATED: JANUARY 18, 2018

2. BOUNDARY DETERMINATION AND MAPPING WAS PERFORMED BY:
   CROSS LAND SURVEYING, INC.
   2210 MT. PLEASANT ROAD
   SAN JOSE, CA 95148
   PROJECT NO. 19-154
   DATED: OCTOBER 22, 2019

3. ELEVATION DATUM: AN ASSUMED ELEVATION OF 100.00' WAS ESTABLISHED ON CONTROL POINT #14 BY CLEARWATER HYDROLOGY (REBAR WITH PLUG "CE 95613"). CROSS LAND SURVEYING RELOCATED THE CONTROL POINT AND SHOWED IT ON THEIR BOUNDARY MAP. CONTROL POINT IS LOCATED ON RIVER LEFT SIDE OF MOODY CREEK AT THE TOP OF BANK.

4. BASIS OF BEARINGS: REFER TO CROSS LAND SURVEYING BOUNDARY MAP.

5. CONTOUR INTERVAL IS ONE FOOT. ELEVATIONS AND DISTANCES SHOWN ARE IN DECIMAL FEET.

6. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE 2018 EDITION OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS, ISSUED BY THE DEPARTMENT OF TRANSPORTATION (HEREAFTER REFERRED TO AS "STANDARD SPECIFICATIONS").

7. THESE PLANS ARE DEVELOPED TO THE 90% DESIGN LEVEL. IF REQUESTED BY OWNER AND/OR AGENCY CONTACTS, MINOR REVISIONS MAY BE MADE DURING FINAL PERMITTING AND CONSTRUCTION MANAGEMENT PHASE ACCORDING TO AGENCY SUGGESTIONS AND CONTRACTOR PREFERENCES, SOURCE MATERIAL INFORMATION, ETC., AND DOCUMENTED BY ENGINEER IN CONSTRUCTION PHASE AND CERTIFIED AS-BUILT UPDATES.

8. OWNER:
   ANTHONY NGUYEN
   17985 APACHE TRAIL
   LOS GATOS, CALIFORNIA

9. AGENCY CONTACTS:
   BRIAN WINES, WATERBOARD, 510-622-5680, BRIAN.WINES@WATERBOARD.CA.GOV
   NAOMI SCHOWALTER, US ARMY CORP, 415-503-6763, NAOMI.A.SCHOWALTER@USACE.ARMY.MIL
   KRISTIN GARRISON, CA DEPT. OF FISH & WILDLIFE, 707-944-5534, KRISTIN.GARRISON@WILDLIFE.CA.GOV
   JAMES BAKER, SANTA CLARA COUNTY PLANNING DEPARTMENT, COUNTY GEOLOGIST, 408-299-5774, JIM.BAKER@PLN.SCCGOV.ORG
   KIM ROOK, SANTA CLARA COUNTY PLANNING DEPARTMENT, SENIOR PLANNER, 408-299-5790, KIM.ROOK@PLN.SCCGOV.ORG

10. DESIGN CONSULTANTS:
    ENGINEER: MATT SMELTZER, P.E., GEOMORPHDESIGN, 510-219-1064, FLUVIALGEOMORPH@GMAIL.COM
    BRIAN SHEDDEN, P.E., SHEDDEN ENGINEERING & SURVEYING, 831-325-2692, SHEDDEN.ENGINEERING@GMAIL.COM
    SCOTT WALLS, M.LA., WALLS LAND + WATER, LLC., 831-246-1718, SCOTT@WALLSLANDWATER.COM
    GEOTECHNICAL ENGINEER: JOHN KASUNICH, HARO, KASUNICH & ASSOCIATES, INC., 831-722-4175, JKASUNICH@HAROKASUNICH.COM
    STRUCTURAL ENGINEER: BROCK DICKIE, BROCK DICKIE ENGINEERING, 408-410-5336, BD@BROCKDICKIE.COM

SHEET INDEX

ABBREVIATIONS

AVG.	AVERAGE	O.C.	ON CENTER
CONC.	CONCRETE	RC	RELATIVE COMPACTION
CY	CUBIC YARDS	RSP	ROCK SLOPE PROTECTION
DIA.	DIAMETER	SPK	SPIKE
E	EXISTING	SF	SQUARE FOOT
EG	EXISTING GROUND	T	TREE
ELEV.	ELEVATION	TW	TOP OF WALL
DI	DRAINAGE INLET	T.B.D.	TO BE DETERMINED
FG	FINISHED GRADE	TYP	TYPICAL
FT	FEET	UNK	UNKNOWN
INV	INVERT	WSE	WATER SURFACE ELEVATION
N	NEW	XS	CROSS SECTION
NIC	NOT IN CONTRACT	YR	YEAR
N.T.S.	NOT TO SCALE		

PROJECT DESCRIPTION

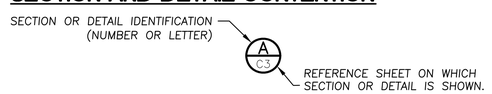
THESE PLANS SHOW PLANS TO REMOVE UN-PERMITTED WALLS, CUT TWO (2) STUMPS ALONG THE LEFT BANK THAT ARE CONSTRICTING FLOW AT THE TOE OF THE SLOPE, AND INSTALL A TIED-BACK CONCRETE PIN PILE WALL TO STABILIZE THE SLOPE BELOW THE EXISTING HOUSE. THE UN-PERMITTED WALLS HAVE BECOME UNDERMINED IN AREAS AND SUBSEQUENTLY HAVE LOWERED THE TOE AND CREEK BED ELEVATION. THE RECOMMENDATIONS FOR REMOVING THE UN-PERMITTED WALLS AND CUTTING THE TWO STUMPS ASSUME THAT THE PIN PILE WALL WILL BE CONSTRUCTED TO BUTTRESS THE EXISTING SLOPE BELOW THE HOUSE. REFER TO THE STRUCTURAL ENGINEERING PLANS AND REPORT (BROCK DICKIE ENGINEERING, DATED 4/11/2022) AND THE GEOTECHNICAL REPORT AND PLAN REVIEW LETTER (HARO, KASUNICH & ASSOCIATES, INC., DATED 27 JULY 2021). THE OWNER HAS BEEN APPRISED OF THE PROJECT OBJECTIVES.

PROJECT OBJECTIVES:
1. REMOVE UN-PERMITTED WALLS AS REQUIRED TO COMPLY WITH ORDERS FROM THE RWQCB, PLACE ID 840411 (BKW), SEPT 21ST, 2018 & PLACE ID 860084 (BKW), AUG 14TH, 2019.
2. RESOLVE THE ORDERS WITH A PLAN THAT IS MINIMALLY INVASIVE TO MOODY GULCH, MINIMAL COST TO THE OWNER, DOES NOT REQUIRE ANY HEAVY EQUIPMENT IN MOODY GULCH, ACCESSES THE SITE SOLELY THROUGH THE OWNERS PROPERTY (NOT ADJACENT LANDOWNERS), AND CAN BE DONE WITH HAND LABOR.
3. REDUCE HYDRAULIC CONSTRICTION CAUSED BY TWO STUMPS ON LEFT BANK AND UN-PERMITTED WALL, REDUCING SCOUR AND ENCOURAGING SEDIMENT DEPOSITION AND CHANNEL GRADATION TOWARD PRE-PROJECT CONDITIONS.
4. STABILIZE SLOPE UPSLOPE OF UN-PERMITTED WALLS.

MEASURES TO MEET PROJECT OBJECTIVES:
1. REMOVE UN-PERMITTED WALLS (AS SHOWN ON SHEET C3) AND OFFHAUL CONCRETE AND REBAR DEBRIS TO AN APPROVED DUMP SITE.
2. CUT AND REMOVE TWO STUMPS ON RIVER LEFT BANK WITH CHAINSAW AS CLOSE TO LEFT BANK AS POSSIBLE. LEAVE ROOTED PORTION OF ROOTWAD INTACT IN LEFT BANK SLOPE.
3. ESTABLISH MONITORING CROSS SECTIONS TO OBSERVE CHANGES TO BED ELEVATION AND CHANNEL GEOMETRY.
4. STABILIZE SLOPE BY INSTALLING A TIED-BACK CONCRETE PIN PILE WALL (PLANS BY BROCK DICKIE ENGINEERING)

THESE PLANS ARE SUBJECT TO REVISION ACCORDING TO AGENCY REVIEW COMMENTS, GEOTECHNICAL REVIEW COMMENTS, AND FIELD JUDGMENTS BASED ON FOUND FIELD CONDITIONS DURING CONSTRUCTION.

SECTION AND DETAIL CONVENTION



DRAFT
NOT FOR CONSTRUCTION

Revisions:
- 1 County Comments 6/15/23
- 2 County Comments 8/26/24
- 3 County Comments 12/18/24

17985 Apache Trail
Los Gatos, CA 95033
A.P.N. 558-14-018
Owner: Anthony Nguyen

COVER SHEET

MOODY GULCH

WALL REMOVAL AND PIN PILE WALL PROJECT

Geomorph Design Group
2100 Fourth Street, No. 154
San Rafael, CA 94901
(510) 219-1064

geomorphDESIGN

Date: 16 FEB 2023
Design by: MS & SW
Drawn by: BRS
Checked by: MS & SW
Scale: AS SHOWN
100% DESIGN PLANS

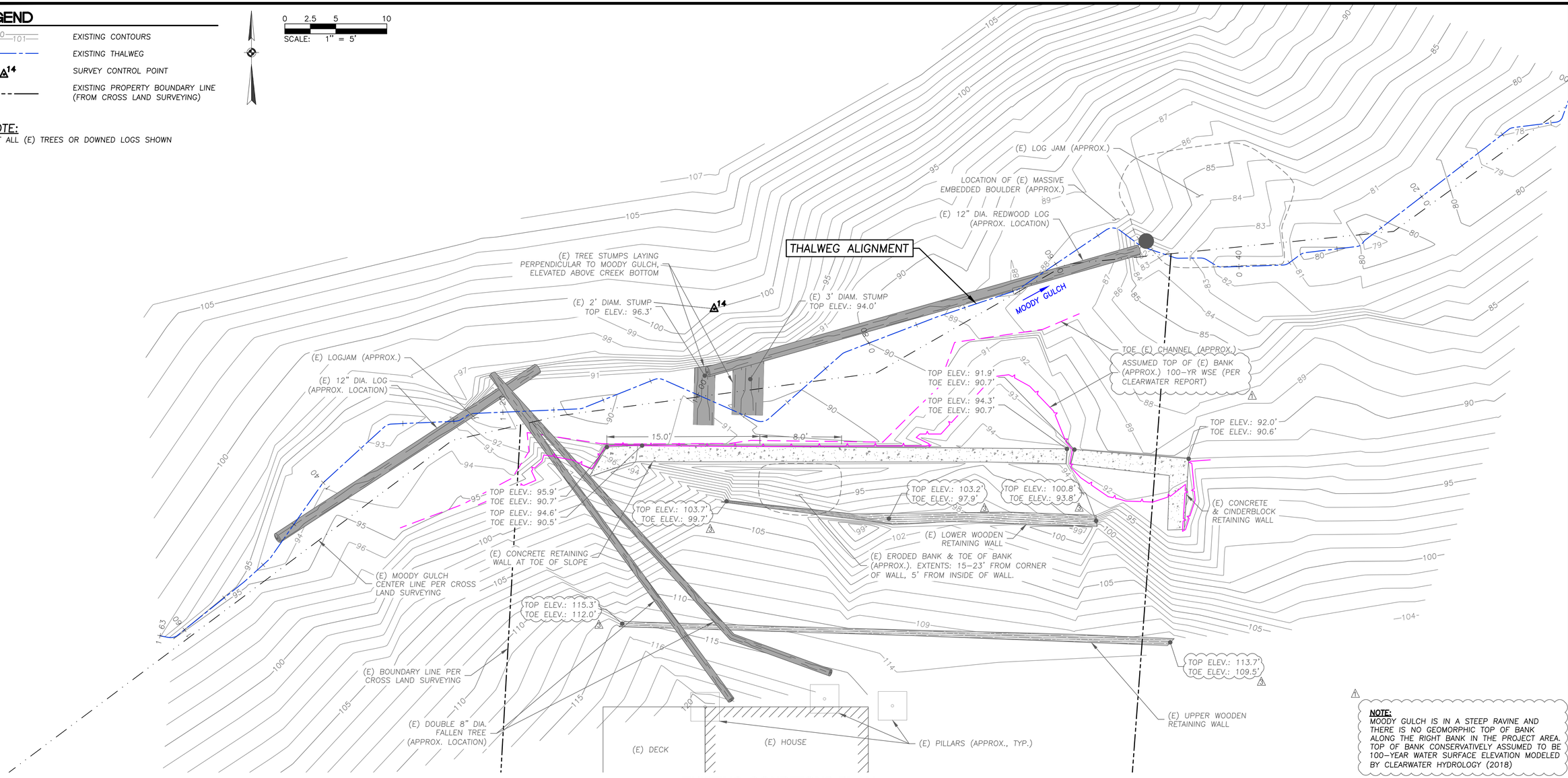
C1

LEGEND

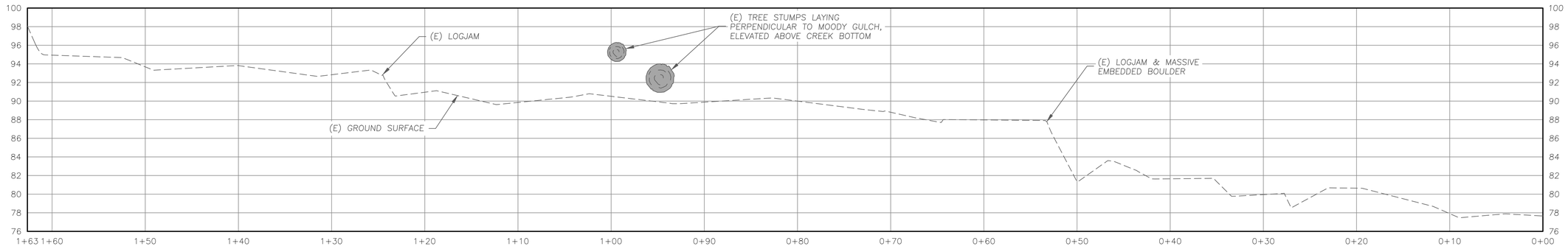
- EXISTING CONTOURS
- EXISTING THALWEG
- SURVEY CONTROL POINT
- EXISTING PROPERTY BOUNDARY LINE (FROM CROSS LAND SURVEYING)

0 2.5 5 10
SCALE: 1" = 5'

NOTE:
NOT ALL (E) TREES OR DOWNED LOGS SHOWN



EXISTING CONDITIONS PLAN
SCALE: 1" = 5'



EXISTING THALWEG PROFILE
SCALE: 1" = 6'

NOTE:
MOODY GULCH IS IN A STEEP RAVINE AND THERE IS NO GEOMORPHIC TOP OF BANK ALONG THE RIGHT BANK IN THE PROJECT AREA. TOP OF BANK CONSERVATIVELY ASSUMED TO BE 100-YEAR WATER SURFACE ELEVATION MODELED BY CLEARWATER HYDROLOGY (2018)

DRAFT
NOT FOR CONSTRUCTION

Revisions:

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EXISTING CONDITIONS PLAN AND PROFILE

MOODY GULCH

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geomorphDESIGN

Date: 16 FEB 2023
Design by: MS & SW
Drawn by: BRS
Checked by: MS & SW
Scale: 1" = 5', 1" = 6'
100% DESIGN PLANS

C2

LEGEND

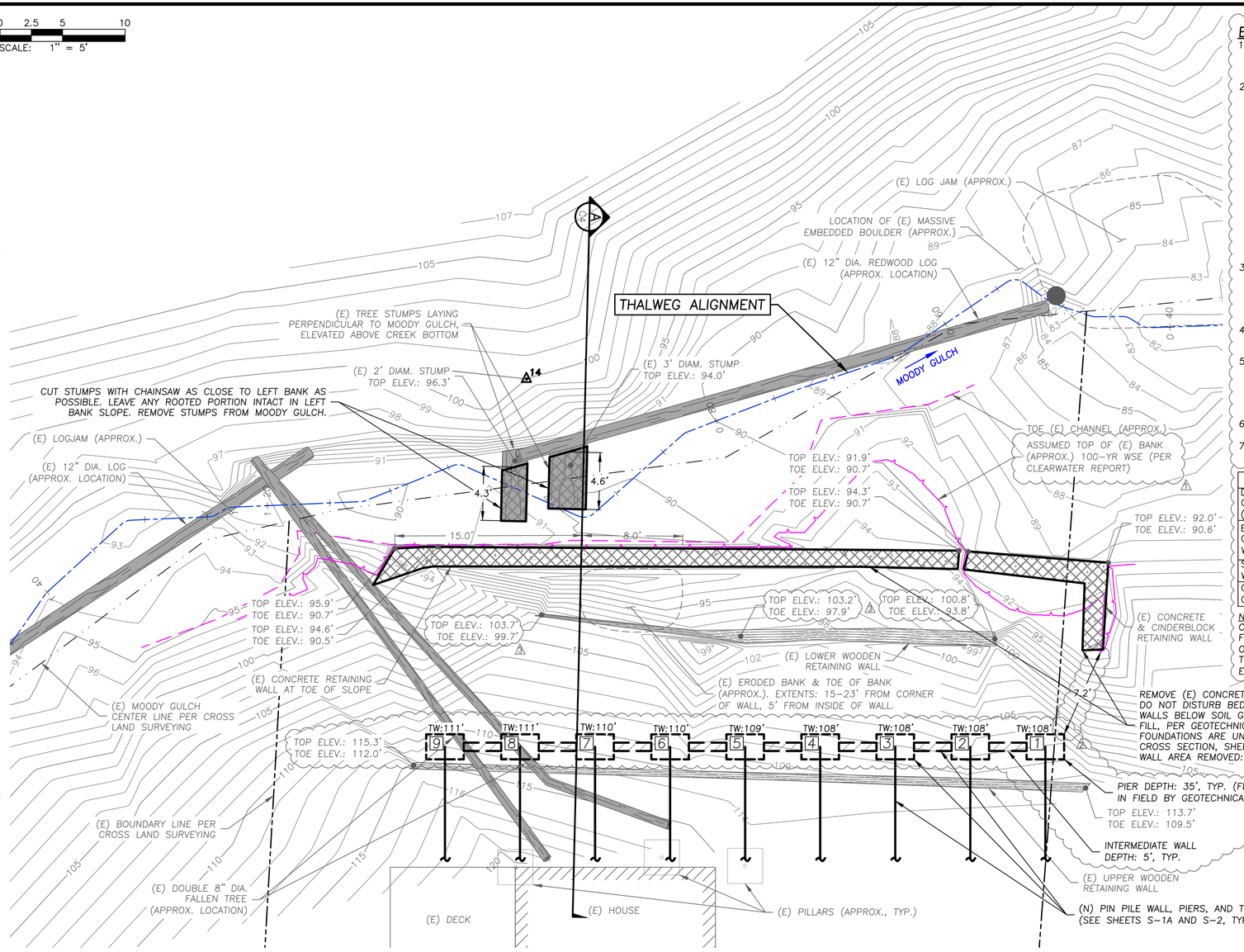
- EXISTING CONTOURS (100 / 101)
- EXISTING THALWEG
- SURVEY CONTROL POINT (14)
- EXISTING PROPERTY BOUNDARY LINE (FROM CROSS LAND SURVEYING)

SCALE: 1" = 5'

NOTES:

GENERAL SITE GRADING FOR CONCRETE WALL REMOVAL AREA AT CREEK:

1. THE GEOTECHNICAL ENGINEER SHOULD BE NOTIFIED AT LEAST FOUR (4) WORKING DAYS PRIOR TO ANY GRADING AND EXCAVATING SO THE WORK IN THE FIELD CAN BE COORDINATED WITH THE GRADING CONTRACTOR AND ARRANGEMENTS FOR TESTING AND OBSERVATION CAN BE MADE. THESE RECOMMENDATIONS ASSUME THAT THE GEOTECHNICAL ENGINEER WILL PERFORM THE REQUIRED TESTING AND OBSERVATION DURING GRADING AND CONSTRUCTION. IT IS THE OWNER'S RESPONSIBILITY TO MAKE THE NECESSARY ARRANGEMENTS FOR THESE REQUIRED SERVICES.
2. COMPACTION DURING INCLEMENT WEATHER OR WET CONDITIONS MAY HAMPER COMPACTION EFFORTS AND OVER-EXCAVATION MAY BE NECESSARY.
3. WHERE REFERENCED, PERCENT RELATIVE COMPACTION AND OPTIMUM MOISTURE CONTENT SHALL BE BASED ON ASTM TEST DESIGNATION D1557.
4. AREAS TO BE GRADED OR DESIGNATED TO RECEIVE ENGINEERED FILL, SHOULD BE CLEARED OF ALL OBSTRUCTIONS, CONCRETE, AND TREE ROOTS.
5. IN AREAS TO BE GRADED OR DESIGNATED TO RECEIVE ENGINEERED FILL, ALL LOOSE SOIL, OLD FILL AND OTHER UNSUITABLE MATERIAL (E.G., CONCRETE, REBAR, WOOD FORMS, ETC.) MUST BE SUBEXCAVATED TO ITS FULL DEPTH. EXISTING DEPRESSIONS OR VOIDS CREATED DURING SITE CLEARING SHOULD BE BACKFILLED WITH ENGINEERED FILL.
6. CLEARED AND SUBEXCAVATED AREAS SHOULD THEN BE STRIPPED OF ORGANIC-LADEN TOPSOIL. STRIPPINGS SHOULD BE WASTED OFF-SITE OR STOCKPILED FOR USE ON TOP OF THE FINISHED GRADE IF DESIRED.
7. EXPOSED SUBGRADES SHOULD BE SCARIFIED AT LEAST 8 INCHES; MOISTURE CONDITIONED AND COMPACTED TO 85 PERCENT RELATIVE COMPACTION. ENGINEERED FILL SHOULD BE PLACED IN THIN LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS; MOISTURE CONDITIONED, AND COMPACTED TO A MINIMUM OF 90 PERCENT RELATIVE COMPACTION, UP TO FINISHED GRADE.
8. NATIVE MATERIAL OR IMPORT MATERIAL AT OPTIMAL MOISTURE CONTENTS MAY BE USED AS ENGINEERED FILL. ENGINEERED FILL SHOULD CONSIST OF A PREDOMINANTLY GRANULAR SOIL CONFORMING TO THE QUALITY AND GRADATION REQUIREMENTS AS FOLLOWS: THE SOIL SHOULD BE RELATIVELY FREE OF ORGANIC MATERIAL AND CONTAIN NO ROCKS OR CLODS GREATER THAN 4 INCHES IN DIAMETER, WITH NO MORE THAN 15 PERCENT LARGER THAN 2 INCHES. THE MATERIAL SHOULD BE PREDOMINATELY GRANULAR WITH A PLASTICITY INDEX LESS THAN 15, A LIQUID LIMIT LESS THAN 35, AND NOT MORE THAN 50 PERCENT PASSING THE #200 SIEVE IN GENERAL, AND ALSO NOT LESS THAN 20 PERCENT PASSING THE #200 SIEVE. ALL IMPORTED MATERIAL WILL BE RESTORATION QUALITY AND SCREENED FOR POLLUTANTS AND CONTAMINANTS BEFORE BEING IMPORTED TO THE PROJECT SITE.
9. FOR AREAS BELOW THE 100-YEAR CREEK WATER SURFACE (~95 FT), 3 INCH MINUS ROUNDED DRAIN ROCK MAY BE USED AS ENGINEERED FILL. THE DRAIN ROCK SHOULD BE PLACED AND COMPACTED UNDER THE DIRECT OBSERVATION OF THE GEOTECHNICAL ENGINEER IN THE FIELD.
10. SLOPES SHOULD BE PROTECTED FROM EROSION BY PREVENTING RUNOFF FROM SPILLING OVER FRESH SLOPES WITH THE USE OF BIODEGRADABLE BLANKET AND SEEDING, PER NOTE 11 BELOW.
11. FOLLOWING GRADING, EXPOSED BARE SLOPES AND SOIL SHOULD BE PLANTED OR COVERED AS SOON AS POSSIBLE WITH EROSION RESISTANT VEGETATION AND BLANKET. COVER BARE AND DURING-CONSTRUCTION DISTURBED AREAS WITH 100% BIODEGRADABLE 100% COIR-BASED EROSION CONTROL BLANKET OR MAT (E.G., NORTH AMERICAN GREEN C125BN EROSION CONTROL BLANKET OR KOIRMAT 700G EROSION CONTROL MAT), AND SEEDED WITH NATIVE GRASS SEED MIX.
12. AFTER THE EARTHWORK OPERATIONS HAVE BEEN COMPLETED AND THE GEOTECHNICAL ENGINEER HAS FINISHED THEIR OBSERVATION OF THE WORK, NO FURTHER EARTHWORK OPERATIONS SHALL BE PERFORMED EXCEPT WITH THE APPROVAL OF AND UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER.
13. A MONITORING AND MAINTENANCE PROGRAM IS AN INTEGRAL COMPONENT OF THE DESIGN OF SOIL PIN PILE WALLS. TO MAINTAIN THE INTEGRITY OF THE RETAINING WALL SYSTEM, IT IS NECESSARY TO CONDUCT REGULAR INSPECTIONS OF THE SLOPE FACE ABOVE AND BELOW THE PILES FOR EVIDENCE OF EXPOSURE OF THE SOIL PIN PILE PIERS. WE RECOMMEND SOIL PIN PILE WALLS BE INSPECTED AFTER LONG DURATION WINTER STORMS, SEVERE SEISMIC SHAKING, AND AT LEAST ONCE EVERY 2 YEARS BY A LICENSED ENGINEER OR AN ENGINEERING GEOLOGIST TO MONITOR THE STATUS OF THE RETAINING WALL SYSTEM AND RECOMMEND MAINTENANCE WHEN NEEDED.
14. INSTALL TYPICAL WINTERIZATION TECHNIQUES IF AND AS NEEDED INCLUDING BUT NOT LIMITED TO: BIODEGRADABLE EROSION CONTROL FABRIC (SEE NOTE 11), HEAVY-WEIGHT VISQUEEN PLASTIC TARP COVERING WITH ROPE-STAKED SANDBAG DEADMAN.
15. NOT ALL (E) TREES OR DOWNED LOGS SHOWN.



SITE PLAN

SCALE: 1" = 5'

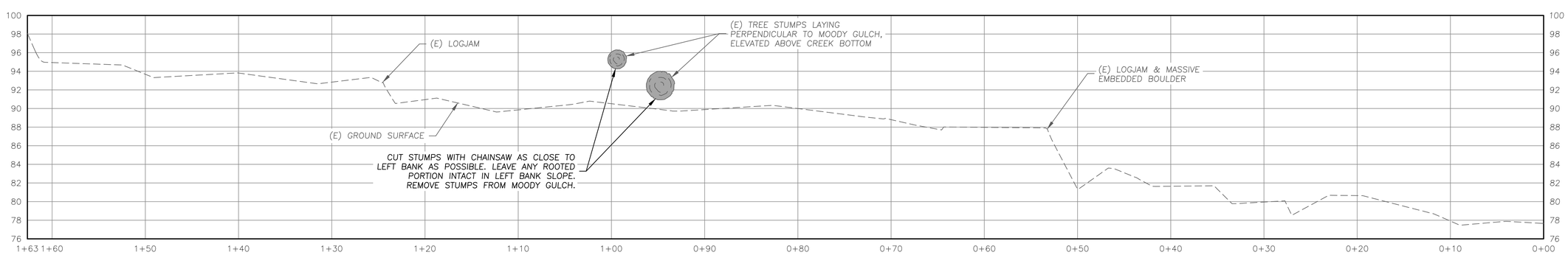
EARTHWORK NOTES

1. ESTIMATED EARTHWORK QUANTITIES:
   - TOTAL CUT VOLUME = 0 CY
   - TOTAL FILL VOLUME = 0 CY
   - DISTURBED AREA = 0.01 ACRES
2. THE ABOVE QUANTITIES ARE APPROXIMATE IN-PLACE VOLUMES CALCULATED AS THE DIFFERENCE BETWEEN EXISTING GROUND AND THE PROPOSED FINISH GRADE, PREPARED FOR PERMITTING PURPOSES ONLY. EXISTING GROUND IS DEFINED BY THE TOPOGRAPHIC CONTOURS AND/OR SPOT ELEVATIONS ON THE PLAN. PROPOSED FINISH GRADE IS DEFINED AS THE DESIGN SURFACE ELEVATION OF WORK TO BE CONSTRUCTED (RESTORING ORIGINAL GRADE, THEREFORE NO CUT AND FILL, JUST EXCAVATION AND ENGINEERING FILL BELOW GRADE). THE QUANTITIES HAVE NOT BEEN FACTORED TO INCLUDE ALLOWANCES FOR BULKING, CLEARING AND GRUBBING, SUBSIDENCE, SHRINKAGE, OVER EXCAVATION, AND RECOMPACTION, UNDERGROUND UTILITY AND SUBSTRUCTURE SPOILS AND CONSTRUCTION METHODS. CONCRETE FOUNDATIONS, BASEROCK, PIPES, AND DRAINAGE BOXES HAVE BEEN ACCOUNTED FOR IN THE ABOVE SOIL QUANTITIES.
3. THE CONTRACTOR SHALL PERFORM AN INDEPENDENT EARTHWORK ESTIMATE FOR THE PURPOSE OF PREPARING BID PRICES FOR EARTHWORK. THE BID PRICE SHALL INCLUDE COSTS FOR ANY NECESSARY IMPORT AND PLACEMENT OF EARTH MATERIALS OR THE EXPORT AND PROPER DISPOSAL OF EXCESS OR UNSUITABLE EARTH MATERIALS.
4. PRIOR TO COMMENCING WORK, ALL AREAS TO REMAIN UNDISTURBED SHALL BE ADEQUATELY PROTECTED WITH TEMPORARY FENCING.
5. DO NOT DISTRURB AREAS OUTSIDE OF THE DESIGNATED LIMITS OF DISTURBANCE, UNLESS AUTHORIZED IN WRITING BY THE ENGINEER. ALL WORK ASSOCIATED WITH RESTORATION AND REVEGETATION OF DISTURBED AREAS OUTSIDE THE DESIGNATED LIMITS OF DISTURBANCE, AS SHOWN ON THE DRAWINGS, SHALL BE BORN SOLELY BY THE CONTRACTOR.
6. ALL EXCESS SOILS SHALL BE REMOVED TO AN APPROVED DUMP SITE.
7. CUT AND FILL EXPECTED TO BE LESS THAN 2' VERTICAL AT WALL REMOVAL AREA. PIN PILES ARE 35' DEEP.

FEATURE	VOLUME
DEMOLISH AND REMOVE EXISTING CONCRETE AND CINDERBLOCK WALLS (BELOW GRADE)	12 CY (CUT)
ENGINEERED FILL TO RESTORE EXISTING GRADE AT CONCRETE AND CINDERBLOCK WALLS (BELOW GRADE)	4 CY (FILL)
SOIL EXCAVATION FOR CONCRETE PIN PILE WALL (BELOW GRADE)	70 CY (CUT)
CONCRETE FOR PIN PILE WALL (BELOW GRADE)	73 CY (FILL)

NOTE: ALL QUANTITIES ARE BELOW GRADE THEREFORE DO NOT CONTRIBUTE TO OVER ALL CUT AND FILL QUANTITIES. PROPOSED FINISH GRADE IS DEFINED AS THE DESIGN SURFACE ELEVATION OF WORK TO BE CONSTRUCTED (RESTORING ORIGINAL GRADE, THEREFORE NO CUT AND FILL, JUST EXCAVATION AND ENGINEERING FILL BELOW GRADE).

NOTE:
MOODY GULCH IS IN A STEEP RAVINE AND THERE IS NO GEOMORPHIC TOP OF BANK ALONG THE RIGHT BANK IN THE PROJECT AREA. TOP OF BANK CONSERVATIVELY ASSUMED TO BE 100-YEAR WATER SURFACE ELEVATION MODELED BY CLEARWATER HYDROLOGY (2018)



EXISTING THALWEG PROFILE

SCALE: 1" = 6'

DRAFT
NOT FOR CONSTRUCTION

Revisions:

1 County Comments	6/15/23
2 County Comments	8/26/24
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SITE PLAN

MOODY GULCH

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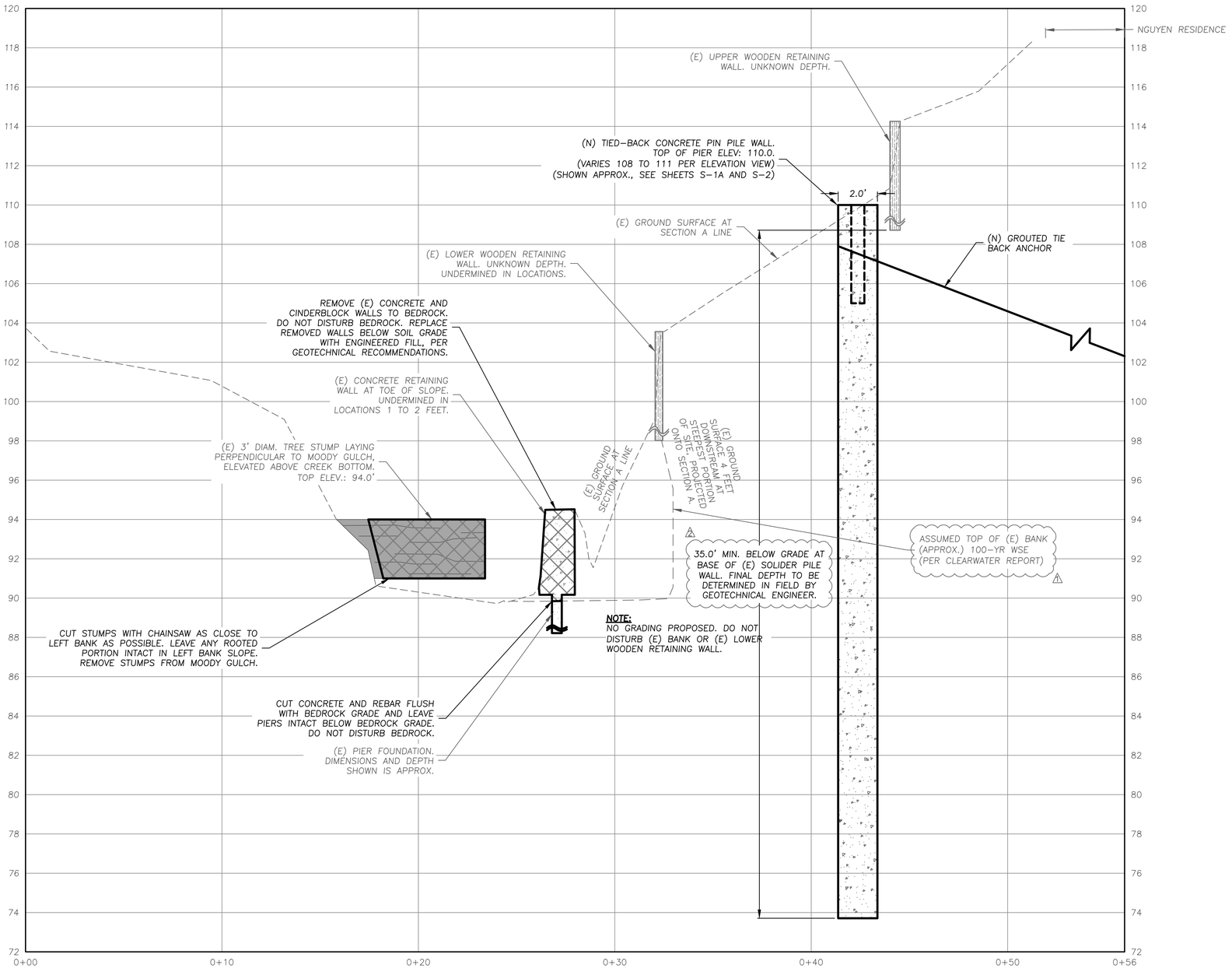
C3



CROSS SECTION A

SCALE: 1" = 3'

NOTE:
THIS IS THE STEEPEST CROSS SECTION AT THE SITE.

NOTE:
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TYPICAL SECTION

MOODY GULCH

WALL REMOVAL AND PIN PILE WALL PROJECT

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2100 Fourth Street, No. 154
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(510) 219-1064

geomorphDESIGN

Date:
16 FEB 2023

Design by:
MS & SW

Drawn by:
BRS

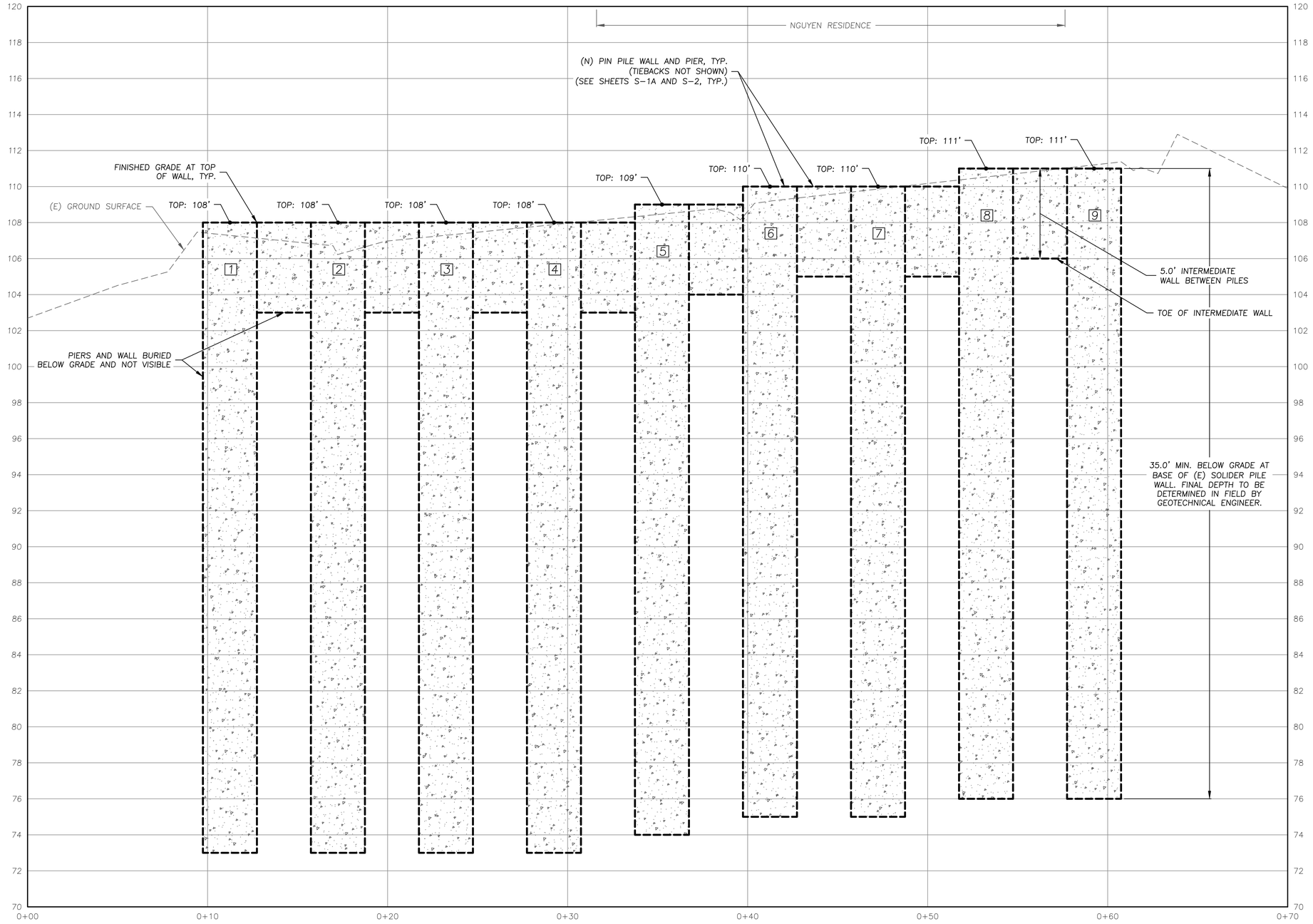
Checked by:
MS & SW

Scale:
1" = 3'

100% DESIGN PLANS

C4

⚠ WHOLE SHEET



WALL ELEVATION

SCALE: 1" = 3'

NOTE:
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WALL ELEVATION

MOODY GULCH

WALL REMOVAL AND PIN PILE WALL PROJECT

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geomorphDESIGN

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Checked by: MS & SW
Scale: 1" = 3'
100% DESIGN PLANS

C5

SITE HOUSEKEEPING NOTES

EQUIPMENT AND VEHICLE MAINTENANCE AND CLEANING

1. INSPECT EQUIPMENT AND VEHICLES FREQUENTLY AND REPAIR ANY LEAKS AS SOON AS POSSIBLE. CONTAIN AND CLEAN UP LEAKS, SPILLS, AND DRIPS OF HAZARDOUS MATERIALS AND CHEMICALS AS QUICKLY AS POSSIBLE TO MINIMIZE RUN–OFF OR SOAK IN. THIS INCLUDES FUEL AND MOTOR OIL, HYDRAULIC FLUID, AND GLYCOL BASED ANTI–FREEZE FROM VEHICLES. USE DRY CLEANUP METHODS IF POSSIBLE. PERFORM MAJOR MAINTENANCE AND REPAIRS OFF–SITE.
2. REMOVE ENCOUNTERED ABANDONED FUEL/OIL TANKS (AND THEIR CONTENTS) IN A MANNER CONSISTENT WITH METHODOLOGY APPROVED BY THE SANTA CLARA COUNTY ENVIRONMENTAL HEALTH DEPARTMENT.
3. IF REPAIR OR REFUELING OF VEHICLES AND EQUIPMENT MUST BE DONE ON–SITE, USE A DESIGNATED LOCATION AWAY FROM STORM DRAIN INLETS, WATER BODIES, AND OTHER SENSITIVE AREAS.
4. IF EQUIPMENT IS WASHED ON–SITE, WASH WATER MAY NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM. IF POSSIBLE, WASH VEHICLES AT AN APPROPRIATE OFF–SITE FACILITY.
5. RECYCLE USED MOTOR OIL, OTHER VEHICLE FLUIDS, AND VEHICLE PARTS WHENEVER POSSIBLE.

MATERIAL STORAGE AND SOIL STOCKPILES

6. LOCATE MATERIAL AND SOIL STOCKPILES AWAY FROM GUTTERS, STORM DRAIN INLETS, AND WATER BODIES. IN ADDITION, KEEP STOCKPILES AWAY FROM STEEP SLOPES AND UNSTABLE SOIL IN ORDER TO MINIMIZE THE CHANCE OF AN ACCIDENTAL RELEASE TO THE ENVIRONMENT. STOCKPILES MAY NEVER BE STORED ON A STREET OR IN AN ALLEY UNLESS SPECIFICALLY APPROVED BY THE PUBLIC WORKS DEPARTMENT.
7. ALL LOOSE STOCKPILED MATERIAL THAT ARE NOT BEING ACTIVELY USED, SHALL BE UNDER COVER AND/OR BERMED AND PROTECTED FROM WIND, RAIN, AND RUNOFF.
8. STORE OPEN BAGS OF PARTICULATE, GRANULAR, OR POWDER MATERIALS (SUCH AS PLASTER OR CONCRETE) INDOORS IF POSSIBLE. IF STORED OUTSIDE, THEY MUST BE COVERED OR CLOSED, AND DURING THE RAINY SEASON THEY MUST BE KEPT WITHIN SECONDARY CONTAINMENT.
9. STORE PAINTS, CHEMICALS, SOLVENTS, AND OTHER HAZARDOUS MATERIALS INSIDE OR WITHIN A SHED WITH DOUBLE CONTAINMENT.
10. KEEP DUMPSTER LIDS CLOSED AND SECURED. FOR DUMPSTERS OR BINS THAT DON'T HAVE A LID, COVER THEM WITH PLASTIC SHEETING OR A TARP DURING RAINY OR WINDY WEATHER.

DEWATERING OPERATIONS

11. PROPER PROCEDURES MUST BE FOLLOWED BEFORE STARTING CONSTRUCTION AND DURING CONSTRUCTION TO MANAGE THE DISCHARGE OF GROUNDWATER OR STORM WATER ACCUMULATED IN CONSTRUCTION SITE EXCAVATIONS OR OTHER NON–STORM WATER DISCHARGES.
12. DIRECT GROUNDWATER OR STORM WATER THAT MUST BE PUMPED OUT OF AN EXCAVATION SHOULD BE ROUTED TO A SETTLING TANK TO ALLOW SEDIMENTS TO SETTLE OUT OF THE WATER.

WASTE MANAGEMENT: BUILDING MATERIALS, DEMOLITION WASTE, AND VEGETATION

13. ONSITE STORAGE OF CONSTRUCTION MATERIALS. STORE WASTES IN CONTAINERS OR A DUMPSTER WHENEVER POSSIBLE. COVER PILES OF UNCONTAINED WASTES AND WASTES STORED IN OPEN CONTAINERS DURING WINDY CONDITIONS AND PRIOR TO SIGNIFICANT FORECASTED RAIN (0.25 INCHES IN A 24–HOUR PERIOD). DO NOT HOSE DUMPSTERS OUT ON THE CONSTRUCTION SITE.
14. USE CONSTRUCTION PRODUCTS MADE FROM OR PACKAGED IN POLYSTYRENE/PLASTIC FOAM IN A MANNER PREVENTING THE POLYSTYRENE/PLASTIC FOAM FROM BEING RELEASED INTO THE ENVIRONMENT.
15. NEVER LEAVE OR ABANDON MATERIALS OR EXCAVATION SPOILS AT A PROJECT SITE. AT THE END OF A CONSTRUCTION PROJECT, COLLECT ALL UNUSED OR WASTE MATERIALS AND DISPOSE OF PROPERLY. DO NOT LEAVE DISCARDED BUILDING MATERIALS, DEMOLITION WASTES, WASTE VEGETATION, SOIL, MULCH, VEGETATION, AND OTHER LANDSCAPE PRODUCTS IN A STREET, GULLY, OR WATERWAY.

PORTABLE TOILET FACILITIES

16. ALL SANITARY WASTES SHALL BE COLLECTED AND MANAGED THROUGH THE USE OF PORTABLE TOILET FACILITIES. ENSURE THAT THE LEASING COMPANY PROPERLY MAINTAINS THE TOILETS AND PROMPTLY MAKES REPAIRS AS NEEDED. CONDUCT VISUAL INSPECTIONS FOR LEAKS.
17. PLACE PORTABLE TOILETS ON A LEVEL SURFACE AND AT A SAFE DISTANCE AWAY FROM PAVED AREAS AND, TO THE EXTENT PRACTICAL, STORM DRAIN INLETS. SECURE THEM TO PREVENT BLOWING OVER.
18. PROVIDE SECONDARY CONTAINMENT FOR PORTABLE TOILETS LOCATED WITHIN 20 FEET OF A STREAM, STORM DRAIN, OR STREET.
19. DURING PUMP–OUT, TAKE APPROPRIATE MEASURES TO AVOID SPILLAGE. IF SPILLAGE OCCURS IT SHALL BE CLEANED UP IMMEDIATELY.

SITE CLEANUP

20. WHEN CLEANING UP, SWEEP WHENEVER POSSIBLE. LITTER AND DEBRIS MUST BE PICKED UP AND DISPOSED OF PROPERLY.
21. ROAD OR SIDEWALK WORK. IN THE ROADWAY OR ON THE SIDEWALK, MATERIAL STOCKPILES MUST BE REMOVED AND CLEANED UP BY THE END OF EACH DAY.
35. SWEEP UP SOIL AND OTHER LANDSCAPE PRODUCTS THAT REMAIN ON PAVEMENT, SUCH AS THE SIDEWALK, DRIVEWAY, OR STREET BY THE END OF EACH DAY.
36. SWEEP AND REMOVE ANY SOLID WASTE THAT ACCUMULATES AT EROSION AND SEDIMENT CONTROL DEVICES AS SOON AS POSSIBLE.
37. DO NOT CLEAN THE STREET, SIDEWALK, OR OTHER PAVED AREAS BY WASHING OR BY DIRECTING SEDIMENT, CONCRETE, ASPHALT, OR OTHER PARTICLES INTO THE STORM DRAIN SYSTEM. IF USING WATER, DIRECT IT TO A LANDSCAPED OR GRASSY AREA LARGE ENOUGH TO ABSORB ALL THE WATER.

MASONRY AND CONCRETE WORK

38. CONCRETE, CEMENT, AND MASONRY PRODUCTS MAY NEVER BE DISCHARGED INTO THE STORM DRAIN SYSTEM OR ANY WATER BODY. CONCRETE, CEMENT, AND MASONRY MIXING CONTAINERS MAY NOT BE WASHED OR RINSED INTO THE STREET, STORM DRAIN SYSTEM, OR WATER BODY. IF A CONCRETE TRANSIT MIXER IS USED, A SUITABLE WASHOUT BOX, EXCAVATION OR SELF–WASHING MIXER ABLE TO CONTAIN THE WASTE MATERIAL SHALL BE PROVIDED ON–SITE.
39. DO NOT MIX FRESH CONCRETE OR CEMENT MORTAR IN A GUTTER, OVER A STORM DRAIN INLET, OR IMMEDIATELY ADJACENT TO A WATER BODY.
40. DURING TILE OR CONCRETE CUTTING, ENSURE THAT THE SLURRY WATER DOES NOT RUN OFF INTO THE STREET, STORM DRAIN SYSTEM, OR WATER BODY. ALSO, DRIED SLURRY MUST BE CLEANED UP AND PROPERLY DISPOSED SO THAT IT WILL NOT BE CARRIED INTO THE STORM DRAIN SYSTEM OR WTAER BODY BY WIND, TRAFFIC, OR RAIN.
41. STORE MATERIALS UNDER COVER AND PROTECTED FROM WIND, RAIN, AND RUNOFF.
42. SMALL AMOUNTS OF EXCESS CONCRETE, GROUT, AND MORTAR MAY BE DISPOSED OF IN THE TRASH.

SIDEWALK AND ROADWORK

43. PROTECT NEARBY STORM DRAIN INLETS (PREFERABLY WITH HEAVY RUBBER MATS) AND ADJACENT WATER BODIES PRIOR TO BREAKING UP ASPHALT OR CONCRETE.
44. IF IT RAINS UNEXPECTEDLY, TAKE APPROPRIATE ACTION TO PREVENT POLLUTION OF STORM WATER RUNOFF (E.G., DIVERT RUNOFF AROUND WORK AREAS, COVER MATERIALS).
45. THE DISCHARGE OF SAW–CUT SLURRY TO THE STORM DRAIN SYSTEM OR ANY WATER BODY IS PROHIBITED. TAKE MEASURES TO CONTAIN THE SLURRY AND, IF NECESSARY, PROTECT NEARBY CATCH BASINS OR GUTTERS. IF SLURRY ENTERS THE STORM DRAIN SYSTEM, REMOVE MATERIAL IMMEDIATELY.
46. DRIED SAW–CUT SLURRY MUST BE CLEANED UP AND PROPERLY DISPOSED SO THAT IT WILL NOT BE CARRIED INTO THE STORM DRAIN SYSTEM OR ANY WATER BODY BY WIND, TRAFFIC, OR RAINFALL.
47. COVER AND SEAL NEARBY STORM DRAIN INLETS AND MANHOLES BEFORE APPLYING SEAL COAT, SLURRY SEAL, ETC. LEAVE COVERS IN PLACE UNTIL THE OIL SEALANT IS DRY OR THE END OF THE DAY.
48. REMOVE AND CLEAN UP MATERIAL STOCKPILES (I.E. ASPHALT AND SAND) BY THE END OF EACH WEEK OR, IF DURING THE RAINY SEASON, THE END OF THE DAY. STOCKPILES MUST BE REMOVED BY THE END OF EACH DAY IF THEY ARE LOCATED IN A PUBLIC RIGHT–OF–WAY.

DUST CONTROL NOTES

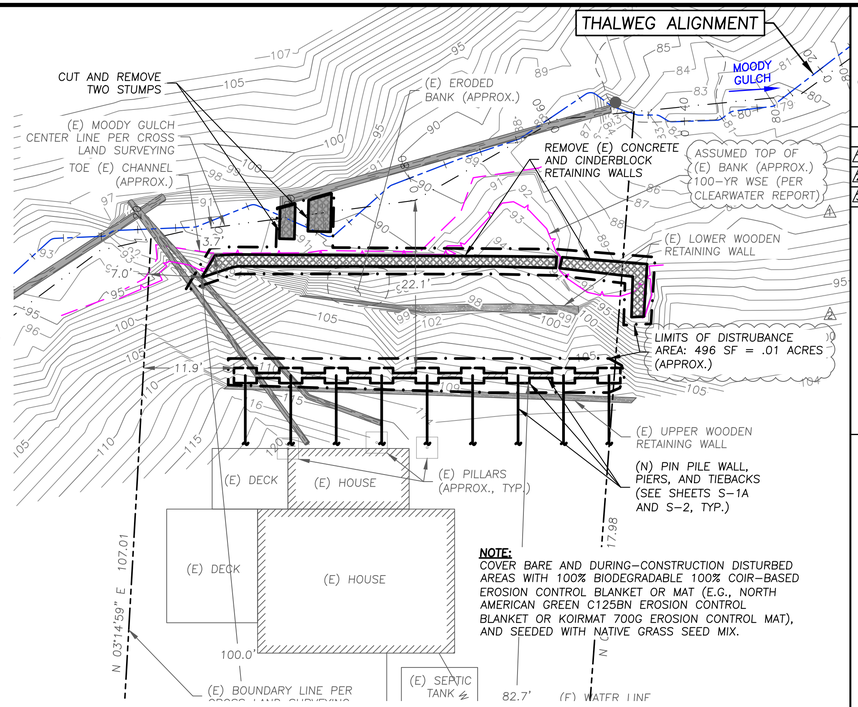
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUS DUST CONTROL, THROUGHOUT THE CONSTRUCTION, IN ACCORDANCE WITH THE PERMIT CONDITIONS OF APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REGULAR CLEANING OF ALL MUD, DIRT, DEBRIS, ETC., FROM ANY AND ALL ADJACENT ROADS AND SIDEWALKS, AT LEAST ONCE EVERY 24 HOURS WHEN OPERATIONS ARE OCCURRING.
2. ALL DISTURBED AREAS, INCLUDING UNPAVED ACCESS ROADS OR STORAGE PILES, NOT BEING ACTIVELY UTILIZED FOR CONSTRUCTION PURPOSES, SHALL BE EFFECTIVELY STABILIZED OF DUST EMISSIONS USING WATER, CHEMICAL STABILIZER/SUPPRESSANT, OR VEGETATIVE GROUND COVER.
3. ALL GROUND–DISTURBING ACTIVITIES (E.G., CLEARING, GRUBBING, SCRAPING, AND EXCAVATION) SHALL BE EFFECTIVELY CONTROLLED OF FUGITIVE DUST EMISSIONS UTILIZING APPLICATION OF WATER OR BY PRE–SOAKING.
4. ALL MATERIALS TRANSPORTED OFFSITE SHALL BE COVERED OR EFFECTIVELY WETTED TO LIMIT DUST EMISSIONS.
5. FOLLOWING THE ADDITION OF MATERIALS TO, OR THE REMOVAL OF MATERIALS FROM, THE SURFACES OF OUTDOOR STORAGE PILES, SAID PILES SHALL BE EFFECTIVELY STABILIZED OF FUGITIVE DUST EMISSIONS UTILIZING SUFFICIENT WATER OR CHEMICAL STABILIZER/SUPPRESANT.
6. ONSITE VEHICLE SPEED ON UNPAVED SURFACES SHALL BE LIMITED TO 10 MPH.
7. DISTURBED AREAS SHALL BE SEEDED PRIOR TO OCTOBER 15TH OR EARLIER AS REQUIRED BY THE APPLICABLE PERMIT CONDITIONS.

EROSION CONTROL NOTES

1. THE EROSION CONTROL PLAN SHOWN IS INTENDED FOR THE SUMMER CONSTRUCTION SEASON (APRIL 15TH TO OCTOBER 15TH). IF THE CONSTRUCTION FEATURES SHOWN ON THESE DRAWINGS ARE NOT COMPLETED AND DISTURBED AREAS STABILIZED BY OCTOBER 1ST, CONSULT THE ENGINEER FOR ADDITIONAL RAINY SEASON EROSION CONTROL MEASURES.
2. PRIOR TO COMMENCING WORK, AREAS TO REMAIN UNDISTURBED SHALL BE PROTECTED WITH ESA FENCING. ADDITIONAL FENCING MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER.
3. CONTRACTOR SHALL UTILIZE ONLY APPROVED HAUL ROADS AND ACCESS POINTS FOR TRANSPORT OF MATERIALS AND EQUIPMENT.
4. BETWEEN OCTOBER 15 AND APRIL 15, EXPOSED SOIL SHALL BE PROTECTED FROM EROSION AT ALL TIMES. DURING CONSTRUCTION, SUCH PROTECTION MAY CONSIST OF MULCHING AND/OR PLANTING OF NATIVE VEGETATION OF ADEQUATE DENSITY. BEFORE COMPLETION OF THE PROJECT, ANY EXPOSED SOIL ON DISTURBED SLOPES SHALL BE PERMANENTLY PROTECTED FROM EROSION.
5. A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (OCTOBER 15 THROUGH APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES.
6. CONSTRUCT TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THIS PLAN AND/OR AS DIRECTED BY THE ENGINEER TO CONTROL DRAINAGE WHICH HAS BEEN AFFECTED BY TRENCHING OPERATIONS.
7. THE CONTRACTOR SHALL INCORPORATE ADEQUATE DRAINAGE PROCEDURES DURING THE CONSTRUCTION PROCESS TO ELIMINATE EXCESSIVE PONDING AND EROSION.
8. CONSTRUCT AND MAINTAIN EROSION CONTROL MEASURES TO PREVENT THE DISCHARGE OF EARTHEN MATERIALS TO MOODY GULCH FROM DISTURBED AREAS UNDER CONSTRUCTION AND FROM COMPLETED CONSTRUCTION AREAS.
9. INSTALL ALL PROTECTIVE DEVICES AT THE END OF EACH WORK DAY WHEN THE FIVE–DAY RAIN PROBABILITY EQUALS OR EXCEEDS 50 PERCENT AS DETERMINED FROM THE NATIONAL WEATHER SERVICE FORECAST OFFICE: WWW.SRH.NOAA.GOV.
10. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM INLETS, CATCH BASINS, SILT FENCES, FIBER ROLLS, ETC. AND INSPECTED FOR ANY DAMAGE. REPAIR ANY BMP THAT IS DAMAGED OR NOT FUNCTIONING.
11. THE EROSION CONTROL DEVICES ON THIS PLAN ARE A SCHEMATIC REPRESENTATION OF WHAT MAY BE REQUIRED. EROSION CONTROL DEVICES MAY BE RELOCATED, DELETED, OR ADDITIONAL ITEMS MAY BE REQUIRED DEPENDING ON THE ACTUAL SOIL CONDITIONS ENCOUNTERED, AT THE DISCRETION OF THE ENGINEER.
12. THE CONTRACTOR IS RESPONSIBLE TO KEEP IN FORCE ALL EROSION CONTROL DEVICES AND TO MODIFY THOSE DEVICES AS SITE PROGRESS DICTATES.
13. THE CONTRACTOR SHALL MONITOR THE EROSION CONTROL DEVICES DURING STORMS AND MODIFY THEM IN ORDER TO PREVENT PROGRESS OF ANY ONGOING EROSION.
14. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ANY EROSION OR DEBRIS SPILLING ONTO A PUBLIC STREET.
15. THE CONTRACTOR SHALL CONTACT THE ENGINEER IN THE EVENT THAT THE EROSION CONTROL PLAN AS DESIGNED REQUIRES ANY SUBSTANTIAL REVISIONS.
16. CONTRACTOR SHALL BE FAMILIAR WITH THE CONDITIONS OF APPROVAL OF ALL REQUIRED PROJECT PERMITS AND SHALL IMPLEMENT ALL REQUIRED BMP'S PRIOR TO COMMENCING GRADING OPERATIONS.
17. EROSION AND SEDIMENT CONTROL BMPS SHALL BE IN PLACE AND IMPLEMENTED, AS APPROPRIATE, PRIOR TO COMMENCING TRENCHING OR VEGETATION REMOVAL. THESE MEASURES SHALL BE MAINTAINED ON ALL DISTURBED AREAS IN ORDER TO MINIMIZE THE RELEASE OF SEDIMENT IN A SITE'S STORM WATER DISCHARGE.
18. PROTECT AND PRESERVE TOPSOIL TO MINIMIZE EROSION AND RETAIN INFILTRATION CAPACITY.
19. MINIMIZE LAND DISTURBANCE. STABILIZE SLOPES AND ALL DISTURBED AREAS AS SOON AS TRENCHING IS FINISHED.
20. COVER BARE AND DURING–CONSTRUCTION DISTURBED AREAS WITH 100% BIODEGRADABLE 100% COIR–BASED EROSION CONTROL BLANKET OR MAT (E.G., NORTH AMERICAN GREEN C125BN EROSION CONTROL BLANKET OR KOIRMAT 700G EROSION CONTROL MAT), AND SEEDED WITH NATIVE GRASS SEED MIX.
21. ESTABLISH A UNIFORM VEGETATIVE COVER WITH A MINIMUM OF 70 PERCENT COVERAGE.
22. PROPERLY INSTALL AND MAINTAIN ALL ON–SITE EROSION CONTROL MEASURES AND STRUCTURAL DEVICES, BOTH TEMPORARY AND PERMANENT. PROMPTLY REPAIR OR REINSTALL ANY EROSION CONTROL MEASURES AND STRUCTURAL DEVICES THAT WERE DAMAGED DURING CONSTRUCTION AND MAINTAIN THEM SO THAT THEY DO NOT BECOME NUISANCES WITH STAGNANT WATER, ODORS, INSECT BREEDING, HEAVY ALGAE GROWTH, DEBRIS, AND/OR SAFETY HAZARDS.
23. A QUALIFIED PERSON SHOULD CONDUCT INSPECTIONS OF ALL ON–SITE BMPS DURING EACH RAINSTORM, IF POSSIBLE, AND AFTER A STORM IS OVER TO ENSURE THAT THE BMPS ARE FUNCTIONING PROPERLY.

SEDIMENT CONTROL NOTES:

1. USE FIBER ROLLS AND SILT FENCES AS PERIMETER CONTROL TO PREVENT SEDIMENT FROM LEAVING THE SITE DURING THE WINTER SEASON (IF CONSTRUCTION DURING WINTER IS PERMITTED).
2. FIBER ROLLS ARE APPROPRIATE IN COMBINATION WITH EROSION CONTROL COVER ON SLOPES TO SHORTEN SLOPE LENGTH AND SPREAD RUNOFF AS SHEET FLOW.
3. SILT FENCES ARE NOT APPROPRIATE IN CONCENTRATED RUNOFF FLOW AREAS (STREAMS, SWALES, GULLIES, ETC.), IN AREAS WHERE FLOODING IS A CONCERN, OR ALONG SLOPES.
4. SILT FENCES MUST BE PROPERLY STAKED IN TO BE EFFECTIVE. INSTALL SILT FENCES SO THAT THE DRAINAGE AROUND EACH FENCE DOES NOT CREATE EROSION AND RILLS DOWN–SLOPE OF THE FENCE. TURN THE ENDS OF THE SILT FENCE UPHILL TO PREVENT STORM WATER FROM FLOWING AROUND THE FENCE. IF NOT INSTALLED AT THE SAME ELEVATION THROUGHOUT, SILT FENCES WILL CREATE EROSION.
5. DO NOT USE SAND BAGS OR STRAW WATTLES AROUND STORM DRAIN INLETS EXPOSED TO VEHICULAR TRAFFIC IN STREETS OR PARKING LOTS.
6. DO NOT DRIVE OVER OR PARK ON SAND BAGS, FIBER ROLLS OR BERMS PROTECTING STORM DRAIN INLETS. IF PROTECTIVE BARRIERS ARE BROKEN OR DAMAGED, CLEANUP AND REMOVE ANY PARTICLES ENTERING THE STORM DRAIN INLET, AND REPLACE THEM IMMEDIATELY.
7. LONG–TERM SEDIMENT CONTROL MEASURES ARE REQUIRED TO ENSURE THAT EROSION AND SEDIMENTATION DO NOT BECOME AN ISSUE ONCE THE PROJECT IS COMPLETED. THE FOLLOWING MEASURES CAN BE EFFECTIVE FOR LONG TERM SEDIMENT CONTROL ONCE THE PLANTINGS AND ROOTS HAVE GROWN TO SUFFICIENT SIZE:
   - 7.1. SEEDING SLOPES BY HYDRO–SEEDING OR WITH SEEDED BLANKETS; PREFERABLY USING NATIVE SEEDS.
   - 7.2. LANDSCAPING WITH PLANT SPECIES THAT GROW RAPIDLY AND HAVE ROOT SYSTEMS THAT ARE EFFECTIVE AT "HOLDING" SOIL



EROSION AND SEDIMENT CONTROL PLAN

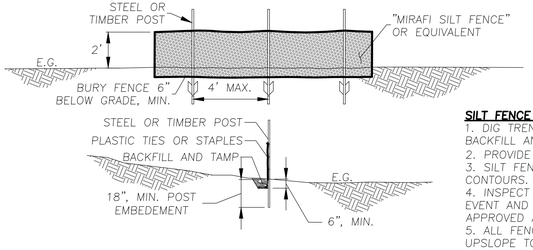
SCALE: 1" = 10'

LEGEND

- 100 / 101 — EXISTING CONTOURS
- EXISTING THALWEG
- Δ14 — SURVEY CONTROL POINT
- EXISTING PROPERTY BOUNDARY LINE (FROM CROSS LAND SURVEYING)
- LIMITS OF DISTURBANCE

0 5 10 20
SCALE: 1" = 10'

⚠ **NOTE:**
MOODY GULCH IS IN A STEEP RAVINE AND THERE IS NO GEOMORPHIC TOP OF BANK ALONG THE RIGHT BANK IN THE PROJECT AREA. TOP OF BANK CONSERVATIVELY ASSUMED TO BE 100–YEAR WATER SURFACE ELEVATION MODELED BY CLEARWATER HYDROLOGY (2018)

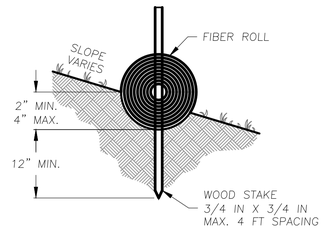


SILT FENCE NOTES

1. DIG TRENCH FIRST, THEN ERECT FENCE IN TRENCH. BACKFILL AND COMPACT SOIL TO SECURE FABRIC.
2. PROVIDE 1' MINIMUM OVERLAP AT FENCE SPLICES.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS.
4. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE ACCUMULATED SEDIMENT, TO AN APPROVED AREA.
5. ALL FENCE TERMINATIONS SHOULD BE TURNED UPSLOPE TO PREVENT FLANKING.

1 SILT FENCE

SCALE: 1"=4'



2 FIBER ROLL DETAIL

SCALE: NTS

DRAFT
NOT FOR CONSTRUCTION

Revisions:

1 County Comments	6/15/23
2 County Comments	8/26/24
3 County Comments	12/18/24

17985 Apache Trail
Los Gatos, CA 95033
A.P.N. 558-14-018
Owner: Anthony Nguyen

EROSION AND SEDIMENT CONTROL PLAN

MOODY GULCH

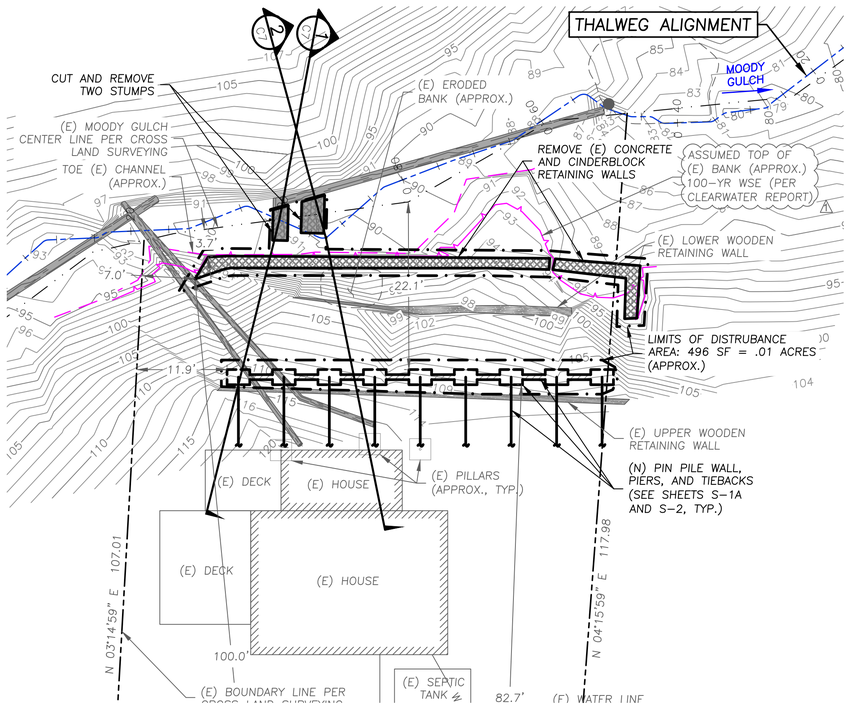
WALL REMOVAL AND PIN PILE WALL PROJECT

Geomorph Design Group
2100 Fourth Street, No. 154
San Rafael, CA 94901
(510) 219-1064

geomorphDESIGN

Date: 16 FEB 2023
Design by: MS & SW
Drawn by: BRS
Checked by: MS & SW
Scale: 1" = 10'
100% DESIGN PLANS

C6

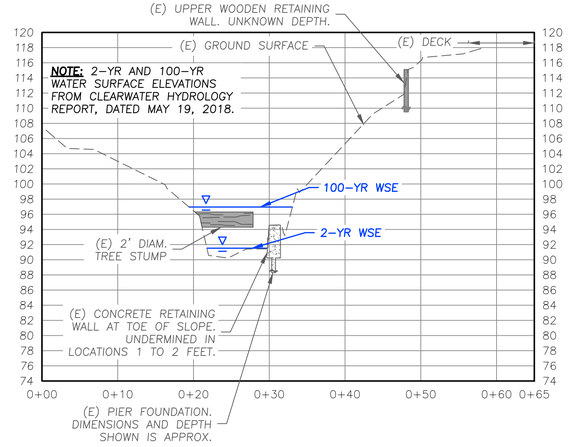


SITE PLAN
SCALE: 1" = 10'

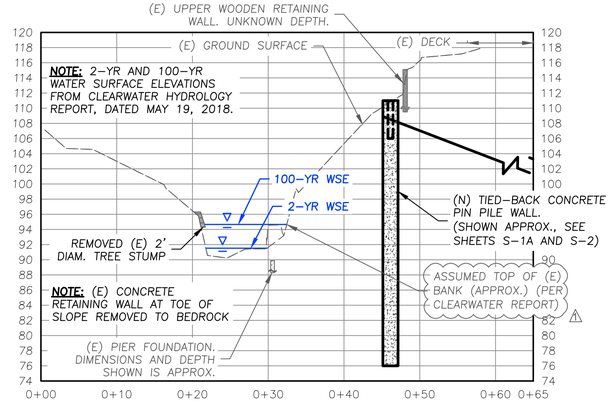
LEGEND

- 100 / 101 — EXISTING CONTOURS
- EXISTING THALWEG
- SURVEY CONTROL POINT
- EXISTING PROPERTY BOUNDARY LINE (FROM CROSS LAND SURVEYING)
- LIMITS OF DISTURBANCE

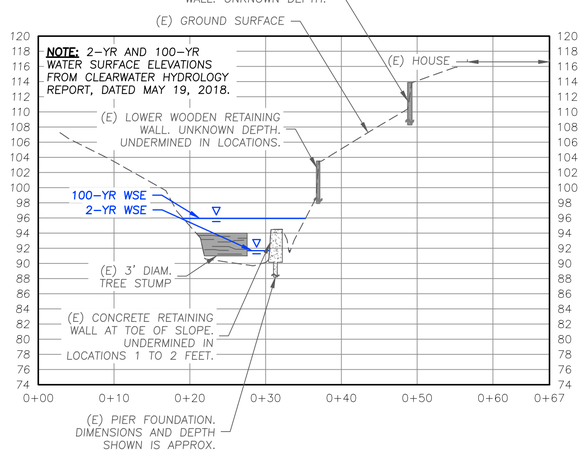
0 5 10 20
SCALE: 1" = 10'



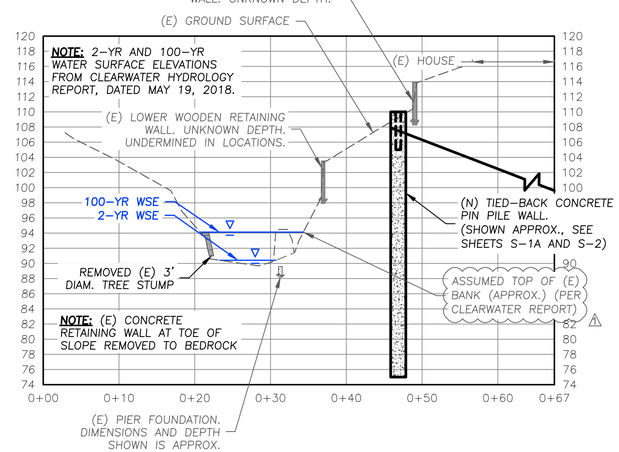
CROSS SECTION - EXISTING CONDITION
SCALE: 1" = 10' — 1 / C7



CROSS SECTION - PROPOSED CONDITION
SCALE: 1" = 10' — 1 / C7



CROSS SECTION - EXISTING CONDITION
SCALE: 1" = 10' — 2 / C7



CROSS SECTION - PROPOSED CONDITION
SCALE: 1" = 10' — 2 / C7

⚠ **NOTE:**
MOODY GULCH IS IN A STEEP RAVINE AND THERE IS NO GEOMORPHIC TOP OF BANK ALONG THE RIGHT BANK IN THE PROJECT AREA. TOP OF BANK CONSERVATIVELY ASSUMED TO BE 100-YEAR WATER SURFACE ELEVATION MODELED BY CLEARWATER HYDROLOGY (2018)

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17985 Apache Trail
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WATER SURFACE ELEVATION CROSS SECTIONS

MOODY GULCH

WALL REMOVAL AND PIN PILE WALL PROJECT

Geomorph Design Group
2100 Fourth Street, No. 154
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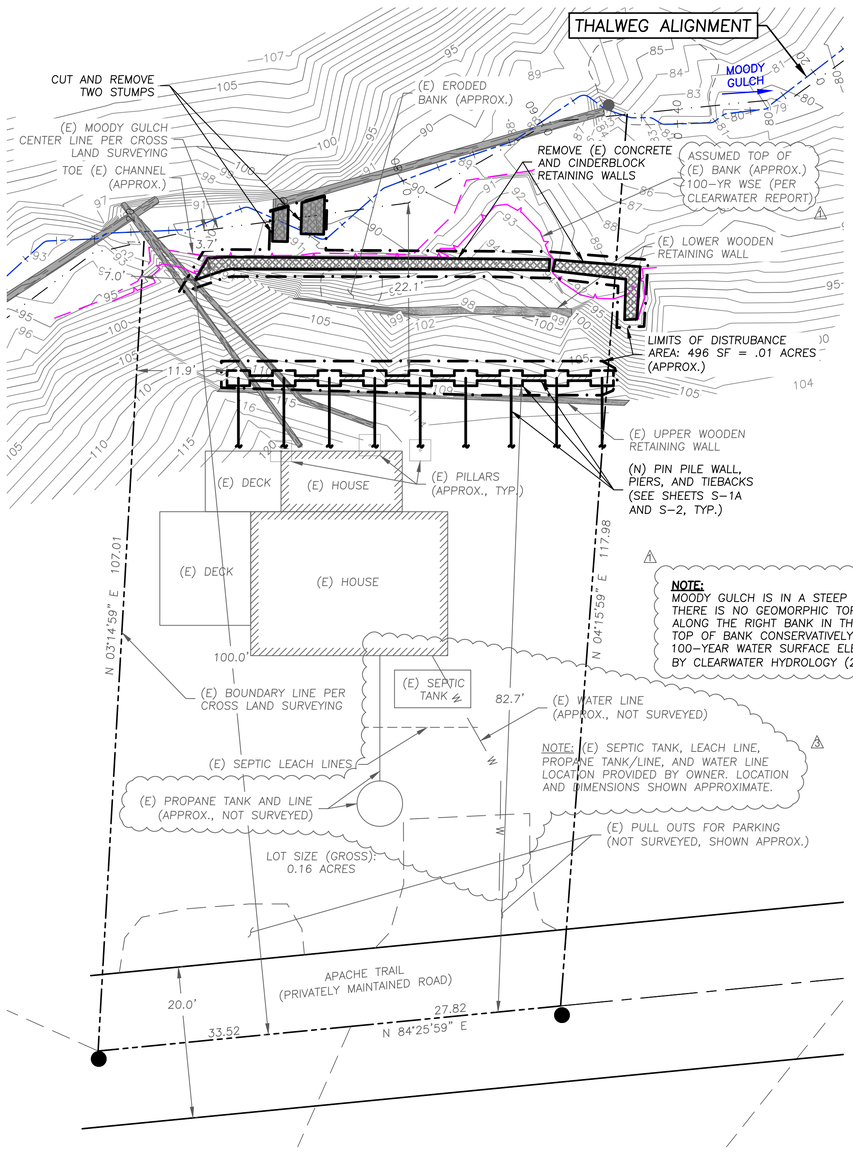


SITE PLAN
SCALE: 1" = 10'

0 5 10 20
SCALE: 1" = 10'

LEGEND

- EXISTING CONTOURS (100 / 101)
- EXISTING THALWEG
- SURVEY CONTROL POINT (14)
- EXISTING PROPERTY BOUNDARY LINE (FROM CROSS LAND SURVEYING)
- LIMITS OF DISTURBANCE

RURAL ZONING DISTRICT – SITE PLAN REQUIREMENTS FOR RESIDENTIAL DEVELOPMENT

1. OWNER'S NAME, PREPARER'S NAME, PREFERRED SCALE (1"=20'), NORTH ARROW, AND DATE OF PREPARATION. PLANS ARE NOT TO EXCEED 24" X 36" IN NAME, SIGNATURE, AND STAMP OF ARCHITECT, ENGINEER, OR SURVEYOR MAY BE REQUIRED, DEPENDING ON THE TYPE OF APPLICATION.
   1.1. SEE SHEET C1
2. A VICINITY MAP INDICATING THE LOCATION OF THE SITE RELATIVE TO THE MAJOR ROADS IN THE AREA.
   2.1. SEE SHEET C1
3. DIMENSIONED BOUNDARIES OF SUBJECT PARCEL(S), GROSS AND NET LOT AREA, CITY/COUNTY BOUNDARY LIMITS, AND ALL RIGHT-OF-WAY EASEMENTS OF ADJACENT STREETS (INCLUDING WIDTH AND WHETHER COUNTY MAINTAINED OR NOT COUNTY MAINTAINED).
   3.1. SEE THIS SHEET, SHEET S-1, AND SHEET BP1. APACHE TRAIL IS CLOSEST ADJACENT STREET. ASSUMED COUNTY MAINTAINED, BUT UNKNOWN.
4. LOCATION OF EXISTING AND PROPOSED IMPROVEMENTS, INCLUDING ALL BUILDINGS, DECKS, SWIMMING POOLS, ARBORS, LANDINGS, PORCHES, RETAINING WALLS (INDICATE TOP AND BOTTOM ELEVATION OF WALL), FENCES, POWER POLES, WATER TANKS, BRIDGES, ETC. SHOW DIMENSIONS, REQUIRED FRONT-, REAR-, AND SIDE-YARD SETBACKS, AND DISTANCES TO PROPERTY LINES AND OTHER BUILDINGS.
   4.1. SEE THIS SHEET, SHEET S-1 AND SHEET C3
5. LOCATION OF EXISTING AND/OR PROPOSED SEPTIC SYSTEMS AND WELLS. CALL 918-3400 OR VISIT THE DEPARTMENT OF ENVIRONMENTAL HEALTH'S WEBSITE AT WWW.EHINFO.ORG FOR MORE INFORMATION.
   5.1. SEE THIS SHEET FOR SEPTIC SYSTEM INFORMATION. LOCATION AND DIMENSIONS PROVIDED BY OWNER. PER OWNER, THERE ARE NO WELLS ON THE PROPERTY.
6. CALCULATION OF EXISTING AND PROPOSED FLOOR AREA (AS DEFINED IN CHAPTER 1.30 OF THE COUNTY ZONING ORDINANCE). SEE FLOOR AREA CALCULATION PAMPHLET FOR MORE INFORMATION.
   6.1. NOT APPLICABLE, THIS IS A RETAINING WALL PROJECT.
7. EXISTING AND PROPOSED ACCESS AND PARKING AREAS INCLUDING PRIVATE STREETS, DRIVEWAYS, CARPORTS AND GARAGES. DEMONSTRATE HOW PROPOSED IMPROVEMENTS COMPLY WITH THE FIRE MARSHAL OFFICE AND LAND DEVELOPMENT ENGINEERING'S (LDE) ACCESS STANDARDS. CALL (408) 299-5760 FOR INFORMATION REGARDING FMO STANDARDS. VISIT WWW.SCCBUILDING.ORG FOR LDE STANDARDS.
   7.1. APACHE TRAIL SHOWN ON THIS SHEET. APPROXIMATE CAR PULL OUTS SHOWN ON THIS SHEET. NO WORK PROPOSED TO THE PULL OUTS OR APACHE TRAIL.
8. LOCATION AND WIDTH OF ALL EASEMENTS FOR WATER, SEWAGE, STORM DRAINAGE, UTILITIES OR OTHER PURPOSES.
   8.1. PER OWNER, THERE ARE NO EASEMENTS ON THE PROPERTY.
9. ACCURATE CONTOUR LINES SHOWING TOPOGRAPHY AT REASONABLE INTERVALS ON LANDS WITH SLOPE GREATER THAN FIVE PERCENT.
   9.1. SEE THIS SHEET AND SHEET C2
10. EXISTING DRAINAGE PATTERNS AND DRAINAGE PATTERNS AS A RESULT OF THE PROPOSED IMPROVEMENTS. SHOW AREAS OF FLOODING (100-YEAR FLOOD).
    10.1. SEE THIS SHEET AND SHEET C3. NO ALTERNATION TO THE FLOW PATH OF MOODY GULCH PROPOSED. JUST REMOVAL OF (E) CONCRETE WALL AND CUTTING TWO STUMPS.
11. LOCATION, COMMON NAME, DIAMETER AND NUMBER OF TREES TO BE REMOVED OR LOCATED NEAR IMPROVEMENTS, MEASURED 4.5 FEET ABOVE GRADE.
    11.1. SEE SHEET C3. NO TREES PLANNED TO BE REMOVED.
12. UNUSUAL TOPOGRAPHIC FEATURES INCLUDING WATERCOURSES, SWALES, DITCHES, CULVERTS, CREEKS, STREAMS, ETC. SHOW SETBACK FROM TOP AND CENTERLINE OF BANK (SEE WATER COLLABORATIVE HANDOUT).
    12.1. SEE SHEET C3. CENTERLINE OF MOODY GULCH AND TOP OF BANK SHOWN THIS SHEET.
13. ANY KNOWN SOIL OR GEOLOGIC HAZARD AREAS (FAULTS, LANDSLIDES, ETC.).
    13.1. SHEET SHEET C3. ERODED BANK SHOWN.
14. PROPOSED EARTHWORK QUANTITIES FOR GRADING LOCATED OUTSIDE OF THE BUILDING FOOTPRINT. PROVIDE THE BREAKDOWN OF TOTAL GRADING QUANTITIES (CUT/FILL, VERTICAL HEIGHT OF CUT OR FILL) FOR THE VARIOUS IMPROVEMENTS.
    14.1. SEE SHEET C3
15. IF PROPOSED ACCESS TO THE PROPERTY IS FROM A PRIVATE ROAD, SHOW HOW EXISTING OR PROPOSED ROAD MEETS FMO/LDE ROAD STANDARDS.
    15.1. N/A
16. FOR LOTS IN HS ZONING DISTRICTS, THE SITE PLAN MUST OUTLINE THE PROPOSED DEVELOPED AREA AND SHOW TOPOGRAPHY USING CONTOUR LINES THAT REPRESENT FIVE-FOOT INTERVALS IN ELEVATION. AVERAGE SLOPE COMPUTATIONS MUST BE SHOWN ON THE SITE PLAN ALONG WITH THE CERTIFICATION STAMP AND SIGNATURE BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR (SEE SEPARATE BUILDING SITE APPROVAL HANDOUT FOR DETAILS).
    16.1. LOT IS ZONED HS-sr (100%). TOPOGRAPHY SHOWN IN VICINITY OF WORK USING 1-FT CONTOUR LINES.

DRAFT
NOT FOR CONSTRUCTION

Revisions:

1 County Comments	6/15/23
2 County Comments	8/26/24
3 County Comments	12/18/24

17985 Apache Trail
Los Gatos, CA 95033
A.P.N. 558-14-018
Owner: Anthony Nguyen

RURAL ZONING DISTRICT SITE PLAN REQUIREMENTS

MOODY GULCH

WALL REMOVAL AND PIN PILE WALL PROJECT

Geomorph Design Group
2100 Fourth Street, No. 154
San Rafael, CA 94901
(510) 215-1684

geomorphDESIGN

Date: 16 FEB 2023
Design by: MS & SW
Drawn by: BRS
Checked by: MS & SW
Scale: 1" = 10'
100% DESIGN PLANS

C8

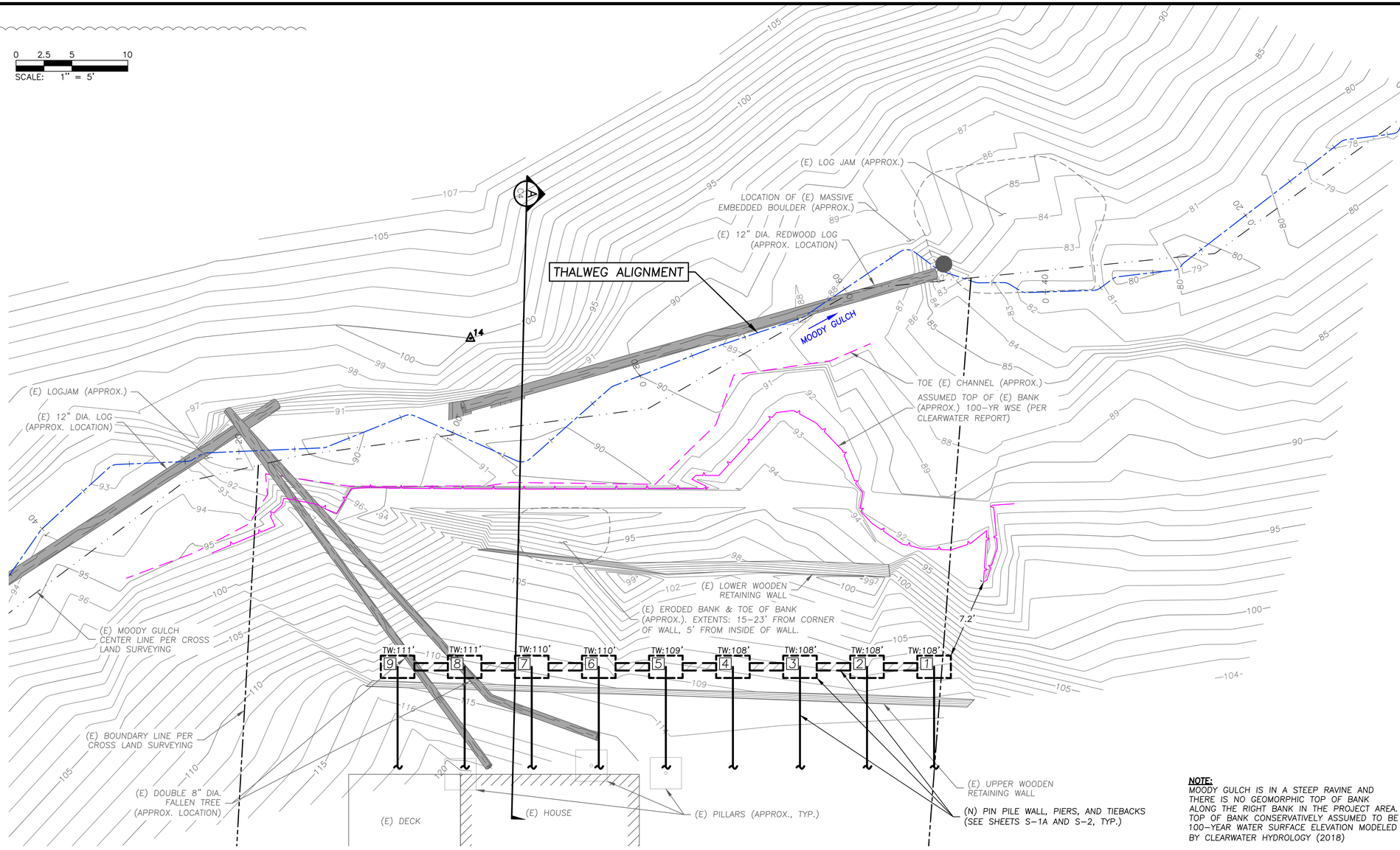
WHOLE SHEET

LEGEND

- EXISTING CONTOURS
- EXISTING THALWEG
- SURVEY CONTROL POINT
- EXISTING PROPERTY BOUNDARY LINE (FROM CROSS LAND SURVEYING)

0 2.5 5 10

SCALE: 1" = 5'



NOTE:
MOODY GULCH IS IN A STEEP RAVINE AND THERE IS NO GEOMORPHIC TOP OF BANK ALONG THE RIGHT BANK IN THE PROJECT AREA. TOP OF BANK CONSERVATIVELY ASSUMED TO BE 100-YEAR WATER SURFACE ELEVATION MODELED BY CLEARWATER HYDROLOGY (2018)

POST-CONSTRUCTION SITE PLAN

SCALE: 1" = 5'

DRAFT
NOT FOR CONSTRUCTION

Revisions:

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17985 Apache Trail
Los Gatos, CA 95033
A.P.N. 558-14-018
Owner: Anthony Nguyen

POST-CONSTRUCTION SITE PLAN

MOODY GULCH

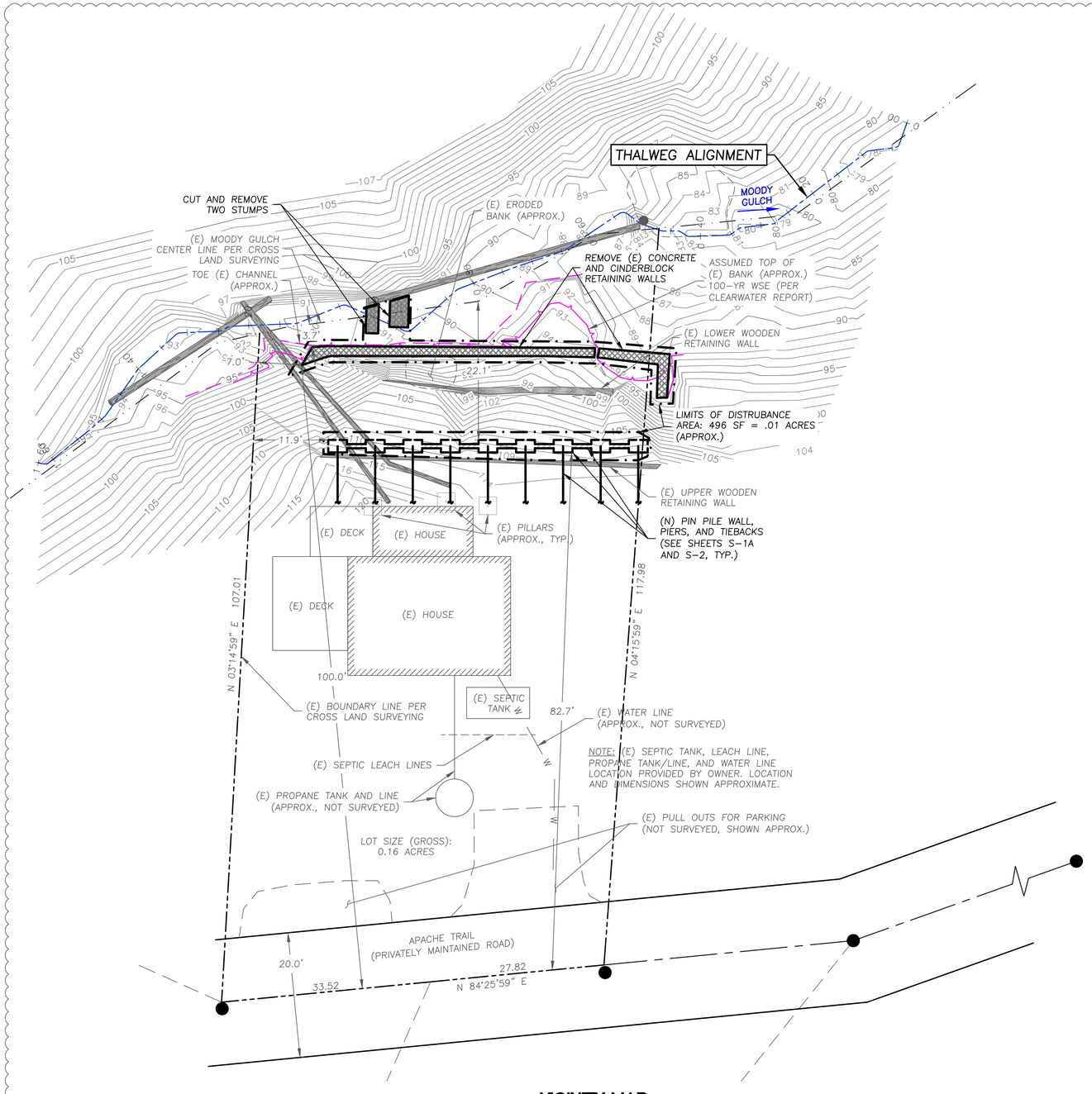
WALL REMOVAL AND PIN PILE WALL PROJECT

Geomorph Design Group
2100 Fourth Street, No. 154
San Rafael, CA 94901
(510) 219-1064

geomorphDESIGN

Date: 16 FEB 2023
Design by: MS & SW
Drawn by: BRS
Checked by: MS & SW
Scale: 1" = 5', 1" = 6'
100% DESIGN PLANS

C9



VICINITY MAP
SCALE: 1" = 10'

LEGEND

100 / 101	EXISTING CONTOURS
	EXISTING THALWEG
14	SURVEY CONTROL POINT
	EXISTING PROPERTY BOUNDARY LINE (FROM CROSS LAND SURVEYING)
	LIMITS OF DISTURBANCE

0 5 10 20
SCALE: 1" = 10'

⚠ WHOLE SHEET

DRAFT
NOT FOR CONSTRUCTION

Revisions:

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17985 Apache Trail
Los Gatos, CA 95033
A.P.N. 558-14-018
Owner: Anthony Nguyen

VICINITY MAP

MOODY GULCH

WALL REMOVAL AND PIN PILE WALL PROJECT

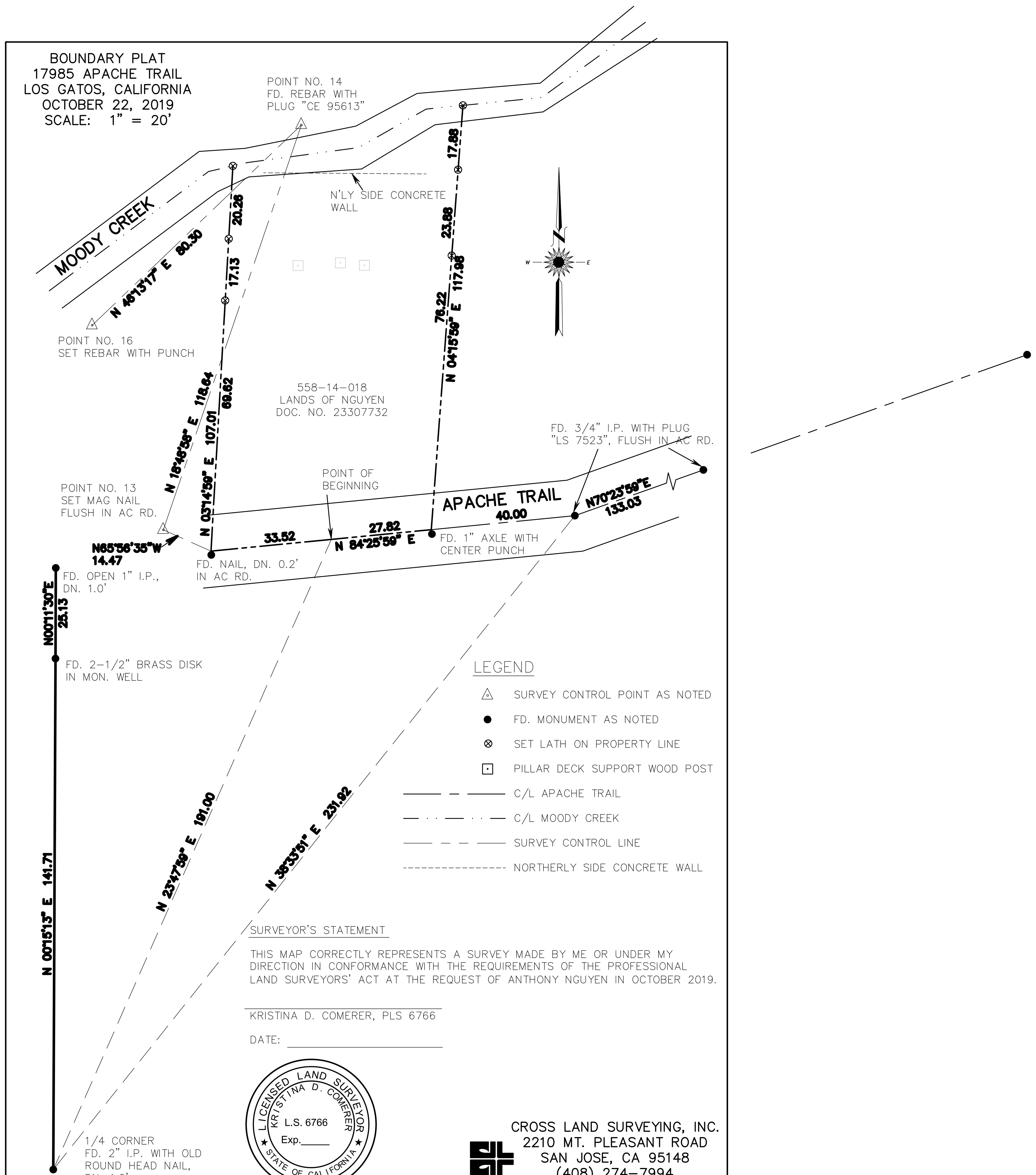
Geomorph Design Group
2100 Fourth Street, No. 154
San Rafael, CA 94901
(510) 219-1064

geomorphDESIGN

Date: 16 FEB 2023
Design by: MS & SW
Drawn by: BRS
Checked by: MS & SW
Scale: 1" = 10'
100% DESIGN PLANS

C10

BOUNDARY PLAT
17985 APACHE TRAIL
LOS GATOS, CALIFORNIA
OCTOBER 22, 2019
SCALE: 1" = 20'



LEGEND

- △ SURVEY CONTROL POINT AS NOTED
- ● FD. MONUMENT AS NOTED
- ⊗ SET LATH ON PROPERTY LINE
- ⊡ PILLAR DECK SUPPORT WOOD POST
- ——— — ——— C/L APACHE TRAIL
- — · · — · · — C/L MOODY CREEK
- —— – – —— SURVEY CONTROL LINE
- ---------------- NORTHERLY SIDE CONCRETE WALL

SURVEYOR'S STATEMENT

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYORS' ACT AT THE REQUEST OF ANTHONY NGUYEN IN OCTOBER 2019.

KRISTINA D. COMERER, PLS 6766

DATE: ____________________

LICENSED LAND SURVEYOR
KRISTINA D. COMERER
L.S. 6766
Exp.______
STATE OF CALIFORNIA

CROSS LAND SURVEYING, INC.
2210 MT. PLEASANT ROAD
SAN JOSE, CA 95148
(408) 274–7994

PROJECT NO. 19–154